| Project/Site: Flat Creek Solar Pro  | oject           |                | City/County: Spra  | kers, Montgomery County           | nty Sampling Date: 2021-Sept-08   |  |  |  |
|---|-----------------|----------------|--|-----------------------------------|---|--|--|--|
| Applicant/Owner: SunEast  |                 |                |  | State: NY                         | Sampling  | Point: W-NSD-09_UPL-1  |  |  |
| Investigator(s): Nick DeJohn, B   | rian Corrigan   |                |  | Section, Township,                | Range: NA   |  |  |  |
| Landform (hillslope, terrace, etc.)   | ): Flat         |                |  | Local relief (concave, conv       | ex, none): Undulatir  | ng Slope (%): 0 to 1   |  |  |
| Subregion (LRR or MLRA): L  | .RR L           |                |  | <b>Lat:</b> 42.864794405          | 2 <b>Long:</b> -74.48616  | 572633 <b>Datum:</b> WGS84   |  |  |
| Soil Map Unit Name: Darien s  | lt loam, 3 to 8 | 3 perce        | nt slopes  |                                   | NWI   | classification:  |  |  |
| Are climatic/hydrologic condition   | s on the site t | typical        | for this time of yea   | ar? Yes 🟒 No                      | (If no, explain i   | n Remarks.)  |  |  |
| Are Vegetation, Soil,   | or Hydrol       | ogy            | significantly dis  | turbed? Are "Norm                 | al Circumstances" pre   | esent? Yes 🟒 No  |  |  |
| Are Vegetation, Soil,   | or Hydrol       | ogy            | naturally proble   | ematic? (If needed,               | explain any answers   | in Remarks.)   |  |  |
| SUMMARY OF FINDINGS – A Hydrophytic Vegetation Present Hydric Soil Present?   |                 | Yes _          | howing samplin No/ No/   | ng point locations, trai          | <u> </u>  | features, etc.   |  |  |
| Wetland Hydrology Present?  |                 |                |  | If yes, optional Wetland S        |   |  |  |  |
| Covertype is UPL.   |                 |                |  |                                   |   |  |  |  |
| Wetland Hydrology Indicators: Primary Indicators (minimum of  Surface Water (A1)  High Water Table (A2)  Saturation (A3)  Water Marks (B1)    | one is require  |                | eck all that apply)<br>Water-Stained Lea<br>Aquatic Fauna (B1:<br>Marl Deposits (B15<br>Hydrogen Sulfide ( | 3)<br>5)                          | Surface Soil Crac<br>Drainage Patterr<br>Moss Trim Lines<br>Dry-Season Wate   | ns (B10)<br>(B16)<br>er Table (C2)   |  |  |
| Sediment Deposits (B2) Drift Deposits (B3) Algal Mat or Crust (B4) Iron Deposits (B5) Inundation Visible on Aerial Sparsely Vegetated Concave |                 | !              | Presence of Reduc  | tion in Tilled Soils (C6)<br>(C7) | Crayfish Burrows Saturation Visible Stunted or Stress Geomorphic Pos Shallow Aquitaro Microtopograph FAC-Neutral Test | e on Aerial Imagery (C9)<br>sed Plants (D1)<br>iition (D2)<br>d (D3)<br>ic Relief (D4) |  |  |
| Field Observations:   |                 |                |  |                                   |   | 1/   |  |  |
| Surface Water Present?  | Yes             | No J           | / Depth (  | inches):                          |   |  |  |  |
| Water Table Present?  | Yes             |                |  | inches):                          | Wetland Hydrology   | Present? Yes No  |  |  |
|   |                 |                |  |                                   |   |  |  |  |
| Saturation Present?   | Yes             | INU _ <b>_</b> | , Depin (  | inches):                          |   |  |  |  |
| (includes capillary fringe)  Describe Recorded Data (stream   |                 |                |  |                                   |   | <u> </u>   |  |  |
| Remarks:  |                 |                |  |                                   |   |  |  |  |
|   |                 |                |  |                                   |   |  |  |  |

| <u>Tree Stratum</u> (Plot size: <u>30 ft</u> ) |             |                   |                     |  |                   |              |                   |
|--|-------------|-------------------|---------------------|--|-------------------|--------------|-------------------|
|  |             | Dominant Species? | Indicator<br>Status | Dominance Test work Number of Dominant |                   | 0            | (4)               |
| 1.   |             |                   |                     | Are OBL, FACW, or FAC                  | C:                | U            | (A)               |
| 2.   |             |                   |                     | Total Number of Dom                    | inant Species     |              | (5)               |
| 3.   |             |                   |                     | Across All Strata:                     |                   | 2            | (B)               |
|  |             |                   |                     | Percent of Dominant                    | Species That      |              | (4.(5)            |
| 4  |             |                   |                     | Are OBL, FACW, or FAC                  | c:                | 0            | (A/B)             |
| 5  |             |                   |                     | Prevalence Index wor                   |                   |              |                   |
| 6.   |             |                   |                     | Total % Cove                           |                   | Multiply     | · Rv              |
| 7  |             |                   |                     | - OBL species                          | 0                 | x 1 =        | <u>- Бу.</u><br>О |
|  | 0           | = Total Cove      | er                  | FACW species                           | 5                 | x 2 =        |                   |
| Sapling/Shrub Stratum (Plot size:15 ft)        |             | _                 |                     | ·                                      |                   | •            | 10                |
| 1.   |             |                   |                     | FAC species                            | 0                 | x 3 =        | 0                 |
| 2.   |             |                   |                     | FACU species                           | 85                | x 4 =        | 340               |
| 3.   | <del></del> |                   |                     | - UPL species                          | 5                 | x 5 =        | 25                |
| <del></del>                                    |             |                   |                     | - Column Totals                        | 95                | (A)          | 375 (B)           |
| 4  |             |                   |                     | Prevalence                             | Index = B/A =     | 3.9          |                   |
| 5  |             |                   |                     | Hydrophytic Vegetation                 | n Indicators      |              |                   |
| 6  |             |                   |                     | 1- Rapid Test for                      |                   | /+-+         | _                 |
| 7.   |             |                   |                     |  |                   | regetatioi   | 1                 |
|  |             | = Total Cove      | er                  | 2 - Dominance To                       |                   |              |                   |
| Herb Stratum (Plot size:5 ft)                  |             | -                 |                     | 3 - Prevalence In                      |                   |              |                   |
| 1. Setaria faberi                              | 60          | Yes               | FACU                | 4 - Morphologica                       |                   | -            | supporting        |
|  | 25          | Yes               | FACU                | data in Remarks or or                  |                   |              |                   |
| 2. Solidago canadensis                         |             |                   |                     | - Problematic Hyd                      | Irophytic Vege    | tation¹ (E   | xplain)           |
| 3. <i>Phalaris arundinacea</i>                 | 5           | <u>No</u>         | FACW                | Indicators of hydric s                 | oil and wetlan    | d hydrolo    | gy must be        |
| 4. Zea mays                                    | 5           | No                | UPL                 | present, unless distur                 | bed or probler    | matic        |                   |
| 5  |             |                   |                     | Definitions of Vegetat                 | ion Strata:       |              |                   |
| 6.   |             |                   |                     | Tree – Woody plants 3                  | 3 in. (7.6 cm) or | more in      | diameter at       |
| 7.   |             |                   |                     | breast height (DBH), r                 |                   |              |                   |
| 8.   |             |                   |                     | Sapling/shrub - Wood                   |                   |              | DBH and           |
| 9.   |             | <del></del>       |                     | greater than or equal                  |                   |              |                   |
|  |             |                   |                     | Herb – All herbaceous                  |                   |              | gardless of       |
| 10   |             | <del></del>       |                     | size, and woody plant                  |                   |              | g                 |
| 11   |             |                   |                     | Woody vines – All woo                  |                   |              | 2 28 ft in        |
| 12   |             |                   |                     | height.                                | ody viries great  | ici tilali s | .2010111          |
|  | 95          | = Total Cove      | er                  |  |                   |              |                   |
| Woody Vine Stratum (Plot size: 30 ft )         |             |                   |                     | Hydrophytic Vegetati                   | on Present? \     | /es l        | No 🟒              |
| 1.   |             |                   |                     |  |                   |              |                   |
| 2.   |             |                   |                     | -                                      |                   |              |                   |
|  |             |                   |                     | =                                      |                   |              |                   |
| 3  | <del></del> |                   |                     | -                                      |                   |              |                   |
| 3.   |             |                   |                     | _ 1                                    |                   |              |                   |
| 3.<br>4.                                       |             | = Total Cove      |                     |  |                   |              |                   |
| Woody Vine Stratum (Plot size: 30 ft ) 1 2.    | 95          | = Total Cove      | er                  | Hydrophytic Vegetati                   | on Present? \     | /es          | -                 |

| Profile Desc | cription: (Describe         | to the de | •                |       |                   | ndicato        | r or confirm the a  | absence of indicator  | s.)                                 |
|--------------|-----------------------------|-----------|------------------|-------|-------------------|----------------|---------------------|-----------------------|-------------------------------------|
| Depth        | Matrix                      |           | Redox            | Feat  | tures             |                |                     |                       |                                     |
| (inches)     | Color (moist)               | %         | Color (moist)    | %     | Type <sup>1</sup> | Loc2           | Tex                 | ture                  | Remarks                             |
| 0 - 9        | 10YR 3/2                    | 100       |                  |       |                   |                | Silty Cla           | ay Loam               |                                     |
| 9 - 20       | 10YR 4/3                    | 100       |                  |       |                   |                | Clay                | Loam                  |                                     |
|              |                             |           |                  | _     |                   |                |                     |                       |                                     |
|              |                             |           |                  | _     |                   |                | -                   |                       |                                     |
|              |                             |           |                  | _     |                   |                |                     |                       | _                                   |
|              |                             |           |                  | _     |                   |                | -                   |                       |                                     |
|              |                             |           |                  | _     |                   |                | -                   |                       |                                     |
|              |                             |           |                  | _     |                   |                |                     |                       | -                                   |
|              |                             |           |                  | _     |                   |                |                     |                       |                                     |
|              |                             |           |                  | _     |                   |                |                     |                       |                                     |
|              |                             |           |                  | _     |                   |                |                     |                       |                                     |
|              |                             |           |                  | _     |                   |                | -                   |                       |                                     |
|              |                             |           |                  | _     |                   |                |                     |                       |                                     |
| ¹Type: C = C | Concentration, D =          | Depletio  | n, RM = Reduced  | Mat   | rix, MS =         | Masked         | Sand Grains. 2l     | Location: PL = Pore l | Lining, M = Matrix.                 |
| Hydric Soil  | Indicators:                 |           |                  |       |                   |                |                     | Indicators for Pro    | blematic Hydric Soils³:             |
| Histosol     | (A1)                        |           | Polyvalue Bel    | ow S  | urface (S         | 8) <b>(LRR</b> | R, MLRA 149B)       | 2 cm Muck (A          | 10) (LRR K, L, MLRA 149B)           |
| Histic Ep    | oipedon (A2)                |           | Thin Dark Sur    | face  | (S9) (LRR         | R, MLR         | A 149B)             |                       | Redox (A16) (LRR K, L, R)           |
| Black Hi     | stic (A3)                   |           | Loamy Mucky      | Mir   | eral (F1)         | (LRR K, I      | L)                  |                       | Peat or Peat (S3) (LRR K, L, R)     |
|              | en Sulfide (A4)             |           | Loamy Gleyed     |       |                   |                |                     | Dark Surface          |                                     |
|              | d Layers (A5)               |           | Depleted Mat     |       |                   |                |                     | <del></del>           | ow Surface (S8) (LRR K, L)          |
|              | d Below Dark Surfa          |           |                  |       |                   |                |                     |                       | face (S9) <b>(LRR K, L)</b>         |
|              | ark Surface (A12)           |           | Depleted Dar     |       |                   | )              |                     |                       | ese Masses (F12) (LRR K, L, R)      |
|              | lucky Mineral (S1)          |           | Redox Depre      | ssior | ıs (F8)           |                |                     |                       | odplain Soils (F19) (MLRA 149B)     |
| -            | Gleyed Matrix (S4)          |           |                  |       |                   |                |                     |                       | (TA6) <b>(MLRA 144A, 145, 149B)</b> |
| _            | ledox (S5)                  |           |                  |       |                   |                |                     | Red Parent M          |                                     |
| Stripped     | d Matrix (S6)               |           |                  |       |                   |                |                     |                       | Dark Surface (TF12)                 |
| Dark Su      | rface (S7) <b>(LRR R, N</b> | /ILRA 149 | 9B)              |       |                   |                |                     | Other (Explain        |                                     |
| 3Indicators  | of hydrophytic veg          | etation a | and wetland hydr | olog  | y must be         | e preser       | nt, unless disturbe | ed or problematic.    |                                     |
| -            | _ayer (if observed):        |           | Ť                |       | ,                 | İ              | •                   | ,                     |                                     |
|              | Type:                       |           | None             |       |                   | Hvdric         | Soil Present?       | ,                     | Yes No                              |
|              | Depth (inches):             | -         |                  |       |                   | ,              |                     |                       |                                     |
| Remarks:     | Deptir (inches).            |           |                  |       |                   | 1              |                     |                       |                                     |
| Remarks:     |                             |           |                  |       |                   |                |                     |                       |                                     |
|              |                             |           |                  |       |                   |                |                     |                       |                                     |
|              |                             |           |                  |       |                   |                |                     |                       |                                     |
|              |                             |           |                  |       |                   |                |                     |                       |                                     |
|              |                             |           |                  |       |                   |                |                     |                       |                                     |
|              |                             |           |                  |       |                   |                |                     |                       |                                     |
|              |                             |           |                  |       |                   |                |                     |                       |                                     |
|              |                             |           |                  |       |                   |                |                     |                       |                                     |
|              |                             |           |                  |       |                   |                |                     |                       |                                     |
|              |                             |           |                  |       |                   |                |                     |                       |                                     |
|              |                             |           |                  |       |                   |                |                     |                       |                                     |
|              |                             |           |                  |       |                   |                |                     |                       |                                     |
|              |                             |           |                  |       |                   |                |                     |                       |                                     |
|              |                             |           |                  |       |                   |                |                     |                       |                                     |
|              |                             |           |                  |       |                   |                |                     |                       |                                     |
|              |                             |           |                  |       |                   |                |                     |                       |                                     |
|              |                             |           |                  |       |                   |                |                     |                       |                                     |
|              |                             |           |                  |       |                   |                |                     |                       |                                     |
|              |                             |           |                  |       |                   |                |                     |                       |                                     |
|              |                             |           |                  |       |                   |                |                     |                       |                                     |
|              |                             |           |                  |       |                   |                |                     |                       |                                     |



Photo of Sample Plot North



Photo of Sample Plot East



Photo of Sample Plot West



| Project/Site: Flat Creek Solar Pro  | oject                                 | City/County: Spra      | kers, Montgomery County      | y S                    | 1-Sept-09            |                   |
|-------------------------------------|---------------------------------------|------------------------|------------------------------|------------------------|----------------------|-------------------|
| Applicant/Owner: SunEast            |                                       |                        | State: NY                    | San                    | npling Point: W-NS   | D-10_PEM-1        |
| Investigator(s): Nick DeJohn, B     | rian Corrigan                         |                        | Section, Township            | , Range: NA            |                      |                   |
| Landform (hillslope, terrace, etc.) | : Depression                          |                        | Local relief (concave, con-  | vex, none): Co         | ncave                | Slope (%): 0 to 1 |
| Subregion (LRR or MLRA): L          | RR L                                  |                        | Lat: 42.865757318            | 83 <b>Long:</b> -74    | .488145141           | Datum: WGS84      |
| Soil Map Unit Name: Illion silt     | loam, 3 to 8 perce                    | nt slopes              |                              |                        | NWI classification   | :                 |
| Are climatic/hydrologic condition   |                                       | -                      |                              | o (If no, ex           | plain in Remarks.)   |                   |
| Are Vegetation, Soil,               |                                       | significantly dis      |                              | nal Circumstand        | es" present?         | ⁄es _ <b>✓</b> No |
| Are Vegetation, Soil,               | or Hydrology <sub>-</sub>             | naturally probl        | ematic? (If needed           | , explain any ar       | nswers in Remarks.)  |                   |
|                                     |                                       |                        |                              |                        |                      |                   |
| SUMMARY OF FINDINGS – A             | Attach site map                       | showing sampli         | ng point locations, tra      | nsects, impo           | rtant features, e    | tc.               |
| Hydrophytic Vegetation Present      | ? Yes                                 | ✓_ No                  |                              |                        |                      |                   |
| Hydric Soil Present?                |                                       | ✓ No                   | Is the Sampled Area with     | in a Wetland?          | Ves                  | _∕_ No            |
|                                     |                                       |                        | ;                            |                        |                      |                   |
| Wetland Hydrology Present?          | · · · · · · · · · · · · · · · · · · · | ✓_ No                  | If yes, optional Wetland S   | site ID:               | W-N:                 | SD-10             |
| Remarks: (Explain alternative pro   | ocedures here or i                    | n a separate report    | )                            |                        |                      |                   |
| Covertype is PEM.                   |                                       |                        |                              |                        |                      |                   |
| ,                                   |                                       |                        |                              |                        |                      |                   |
| 1                                   |                                       |                        |                              |                        |                      |                   |
|                                     |                                       |                        |                              |                        |                      |                   |
|                                     |                                       |                        |                              |                        |                      |                   |
|                                     |                                       |                        |                              |                        |                      |                   |
|                                     |                                       |                        |                              |                        |                      |                   |
|                                     |                                       |                        |                              |                        |                      |                   |
|                                     |                                       |                        |                              |                        |                      |                   |
|                                     |                                       |                        |                              |                        |                      |                   |
|                                     |                                       |                        |                              |                        |                      |                   |
|                                     |                                       |                        |                              |                        |                      |                   |
| HYDROLOGY                           |                                       |                        |                              |                        |                      |                   |
|                                     |                                       |                        |                              |                        |                      |                   |
| Wetland Hydrology Indicators:       |                                       |                        |                              |                        |                      |                   |
|                                     | ono ic roquirod: c                    | hock all that apply)   |                              | CocondanyIng           | dicators (minimum    | of two required)  |
| Primary Indicators (minimum of      | orie is required, c                   | песк ан итас арріу)    |                              | =                      | dicators (minimum    | or two required)  |
| Surface Water (A1)                  |                                       | _ Water-Stained Lea    | aves (B9)                    | Surface So             | oil Cracks (B6)      |                   |
| ✓ High Water Table (A2)             |                                       | _ Aquatic Fauna (B1    |                              | Drainage I             | Patterns (B10)       |                   |
| ✓ Saturation (A3)                   |                                       | _ Marl Deposits (B1    |                              | Moss Trim              | Lines (B16)          |                   |
| Water Marks (B1)                    |                                       | _ Hydrogen Sulfide     |                              | Dry-Seaso              | n Water Table (C2)   |                   |
|                                     | _                                     |                        |                              | Crayfish B             | urrows (C8)          |                   |
| Sediment Deposits (B2)              | _                                     |                        | neres on Living Roots (C3)   | _✓ Saturation          | Visible on Aerial In | nagery (C9)       |
| Drift Deposits (B3)                 | _                                     | _ Presence of Redu     |                              |                        | r Stressed Plants (D | •                 |
| Algal Mat or Crust (B4)             | _                                     | _ Recent Iron Reduc    | ction in Tilled Soils (C6)   |                        | nic Position (D2)    | • ,               |
| Iron Deposits (B5)                  | _                                     | _ Thin Muck Surface    | e (C7)                       |                        |                      |                   |
| Inundation Visible on Aerial I      | magery (B7)                           | _ Other (Explain in F  | Remarks)                     | Shallow Ad             |                      |                   |
| Sparsely Vegetated Concave          |                                       |                        |                              |                        | graphic Relief (D4)  |                   |
|                                     |                                       |                        |                              | _ <u>_</u> ✓ FAC-Neutr | al Test (D5)         |                   |
| Field Observations:                 |                                       |                        |                              |                        |                      |                   |
| Surface Water Present?              | Yes No _                              | <u>✓</u> Depth         | (inches):                    | _                      |                      |                   |
| Water Table Present?                | Yes 🟒 No _                            | Depth                  | (inches): 12                 | Wetland Hydr           | rology Present?      | Yes No            |
| Saturation Present?                 | Yes 🟒 No _                            | Depth                  | (inches): 4                  |                        |                      |                   |
| (includes capillary fringe)         |                                       |                        |                              | _                      |                      |                   |
|                                     |                                       |                        |                              |                        |                      |                   |
| Describe Recorded Data (stream      | i gauge, monitorir                    | ig weii, aeriai photo: | s, previous inspections), if | avallable:             |                      |                   |
|                                     |                                       |                        |                              |                        |                      |                   |
|                                     |                                       |                        |                              |                        |                      |                   |
|                                     |                                       |                        |                              |                        |                      |                   |
| Remarks:                            |                                       |                        |                              |                        |                      |                   |
|                                     |                                       |                        |                              |                        |                      |                   |
|                                     |                                       |                        |                              |                        |                      |                   |
|                                     |                                       |                        |                              |                        |                      |                   |
|                                     |                                       |                        |                              |                        |                      |                   |
|                                     |                                       |                        |                              |                        |                      |                   |
|                                     |                                       |                        |                              |                        |                      |                   |
|                                     |                                       |                        |                              |                        |                      |                   |
|                                     |                                       |                        |                              |                        |                      |                   |
|                                     |                                       |                        |                              |                        |                      |                   |

| ·  |                |             |        | T   |                 |               |
|--|----------------|-------------|--------|---|-----------------|---------------|
| <u>Tree Stratum</u> (Plot size: <u>30 ft</u> )   |                | Dominant    |        | Dominance Test worksheet:   |                 |               |
|  | % Cover        | Species?    | Status | Number of Dominant Species Th   | at 1            | (A)           |
| 1  |                |             |        | Are OBL, FACW, or FAC:  |                 |               |
| 2  |                |             |        | Total Number of Dominant Speci<br>Across All Strata:                              | es 1            | (B)           |
| 3  |                |             |        |   |                 | <del></del>   |
| 4  |                |             |        | <ul><li>Percent of Dominant Species That</li><li>Are OBL, FACW, or FAC:</li></ul> | 100             | (A/B)         |
| 5  |                |             |        | Prevalence Index worksheet:   |                 |               |
| 6.   |                |             |        |   | N.A. Jaimba     | D             |
| 7.   |                |             |        | Total % Cover of:   | <u>Multiply</u> | -             |
|  |                | = Total Cov | er     | OBL species 10  | x1=             | 10            |
| Sapling/Shrub Stratum (Plot size:15 ft)  |                | -           |        | FACW species 90   | x 2 = _         | 180           |
|  |                |             |        | FAC species 0   | x 3 =           | 0             |
|  |                |             |        | FACU species 0  | x 4 =           | 0             |
| 3.   |                |             |        | UPL species 0   | x 5 =           | 0             |
| 4.   |                | <del></del> |        | - Column Totals 100   | (A)             | 190 (B)       |
|  |                |             |        | Prevalence Index = B/A  | = 1.9           |               |
| 5.   |                |             |        | Hydrophytic Vegetation Indicator  | s:              |               |
| 6.   |                |             |        | 1- Rapid Test for Hydrophyt   |                 | 1             |
| 7  |                |             |        | ✓ 2 - Dominance Test is >50%  | Ü               |               |
|  | 0              | = Total Cov | er     | ✓ 3 - Prevalence Index is ≤ 3.  | <b>)</b> 1      |               |
| Herb Stratum (Plot size:5 ft)  |                |             |        | 4 - Morphological Adaptatic   |                 | supporting    |
| 1. <i>Phalaris arundinacea</i>   | 90             | Yes         | FACW   | - data in Remarks or on a separate  |                 | 20000.000     |
| 2. <i>Typha angustifolia</i>   | 10             | No          | OBL    | Problematic Hydrophytic Ve  |                 | xplain)       |
| 3  |                |             |        | Indicators of hydric soil and wet   | _               | •             |
| 4.   |                |             |        | _ present, unless disturbed or prol   |                 | 8,            |
| 5.   |                |             |        | Definitions of Vegetation Strata:   |                 |               |
| 6.   | ·              |             |        | Tree – Woody plants 3 in. (7.6 cm   | ) or more in    | diameter at   |
| 7.   |                |             |        | breast height (DBH), regardless of  |                 | didiffecer de |
| 8.   |                |             |        | Sapling/shrub – Woody plants les  | _               | DBH and       |
| 9.   |                |             |        | greater than or equal to 3.28 ft (1   |                 |               |
| 10   |                |             |        | Herb – All herbaceous (non-wood   |                 | gardless of   |
|  |                |             |        | size, and woody plants less than  |                 | <b>6</b>      |
| 11.  |                | <del></del> |        | Woody vines - All woody vines gr  |                 | .28 ft in     |
| 12   |                |             |        | height.   |                 |               |
|  | 100            | = Total Cov | er     | Hydrophytic Vegetation Present  | Voc. / N        | alo.          |
| Woody Vine Stratum (Plot size: 30 ft )   |                |             |        | Trydrophytic vegetation Fresent   | 163 <u>v</u> 1  | NO            |
| 1  |                |             |        | _   |                 |               |
| 2.   |                |             |        | _   |                 |               |
| 3  |                |             |        | _   |                 |               |
| 4.   |                |             |        | _   |                 |               |
|  | 0              | = Total Cov | er     |   |                 |               |
| Demonstration (to dead only the country to the coun |                | -           |        |   |                 |               |
| Remarks: (Include photo numbers here or on a se  | parate sheet.) |             |        |   |                 |               |
|  |                |             |        |   |                 |               |
|  |                |             |        |   |                 |               |
|  |                |             |        |   |                 |               |
|  |                |             |        |   |                 |               |
|  |                |             |        |   |                 |               |
|  |                |             |        |   |                 |               |
|  |                |             |        |   |                 |               |
|  |                |             |        |   |                 |               |

| Profile Desc  | ription: (Describe t                    | o the d | epth needed to d | ocun   | nent the          | indicato        | r or confirm the a | absence of i | indicators.)                                 |
|---------------|---|---------|------------------|--------|-------------------|-----------------|--------------------|--------------|--|
| Depth         | Matrix                                  |         | Redox            | Feat   | ures              |                 |                    |              |  |
| (inches)      | Color (moist)                           | %       | Color (moist)    | %      | Type <sup>1</sup> | Loc2            | Texture            | e            | Remarks                                      |
| 0 - 20        | 10YR 3/2                                | 95      | 7.5YR 4/6        | 5      | С                 | M               | Clay Loa           | ım           |  |
|               |   |         |                  |        |                   |                 |                    |              |  |
|               |   |         |                  | _      |                   |                 |                    |              |  |
| -             |   |         |                  |        |                   |                 |                    |              |  |
|               |   |         |                  | _      |                   |                 |                    |              |  |
| ·             |   |         |                  | _      |                   |                 | -                  |              |  |
|               |   |         |                  | _      |                   |                 |                    |              |  |
|               |   |         |                  | _      |                   |                 |                    |              |  |
|               |   |         |                  |        |                   |                 | -                  |              |  |
|               |   |         |                  | _      |                   |                 | -                  |              |  |
|               |   |         |                  | _      |                   |                 |                    |              |  |
|               |   |         |                  | _      |                   |                 |                    |              |  |
|               |   |         |                  | _      |                   |                 |                    |              |  |
| ¹Type: C = C  | oncentration, D = [                     | Depleti | on, RM = Reduced | Mat    | rix, MS =         | Masked          | Sand Grains. 2     | Location: Pl | _ = Pore Lining, M = Matrix.                 |
| Hydric Soil I | ndicators:                              |         |                  |        |                   |                 |                    | Indicator    | s for Problematic Hydric Soils³:             |
| Histosol      | (A1)                                    |         | Polyvalue Be     | low S  | Surface (S        | 88) <b>(LRR</b> | R, MLRA 149B)      | 2 cm         | Muck (A10) (LRR K, L, MLRA 149B)             |
| Histic Ep     | oipedon (A2)                            |         | Thin Dark Su     | rface  | (S9) <b>(LRF</b>  | R R, MLR        | A 149B)            |              | t Prairie Redox (A16) (LRR K, L, R)          |
| Black Hi      |   |         | Loamy Muck       |        |                   | (LRR K,         | L)                 |              | Mucky Peat or Peat (S3) (LRR K, L, R)        |
|               | en Sulfide (A4)                         |         | Loamy Gleye      |        |                   |                 |                    |              | Surface (S7) (LRR K, L)                      |
|               | d Layers (A5)                           |         | Depleted Ma      |        |                   |                 |                    | Polyv        | ralue Below Surface (S8) (LRR K, L)          |
|               | d Below Dark Surfa                      | ce (AT  |                  |        |                   | `               |                    | Thin         | Dark Surface (S9) <b>(LRR K, L)</b>          |
|               | ark Surface (A12)<br>lucky Mineral (S1) |         | Depleted Da      |        |                   | )               |                    | Iron-        | Manganese Masses (F12) (LRR K, L, R)         |
| -             |   |         | Redox Depre      | :55101 | 15 (F6)           |                 |                    | Piedr        | mont Floodplain Soils (F19) (MLRA 149B)      |
| -             | lleyed Matrix (S4)                      |         |                  |        |                   |                 |                    | Mesi         | c Spodic (TA6) <b>(MLRA 144A, 145, 149B)</b> |
| -             | edox (S5)                               |         |                  |        |                   |                 |                    | Red F        | Parent Material (F21)                        |
|               | Matrix (S6)                             |         | 0.5%             |        |                   |                 |                    | Very         | Shallow Dark Surface (TF12)                  |
| Dark Su       | rface (S7) <b>(LRR R, M</b>             | LRA 14  | 98)              |        |                   |                 |                    | Othe         | r (Explain in Remarks)                       |
| 3Indicators   | of hydrophytic vege                     | etation | and wetland hyd  | rolog  | y must b          | e presei        | nt, unless disturb | ed or probl  | ematic.                                      |
| Restrictive L | ayer (if observed):                     |         |                  |        |                   |                 |                    |              |  |
|               | Type:                                   |         | None             |        |                   | Hydric          | Soil Present?      |              | Yes No                                       |
|               | Depth (inches):                         |         |                  |        |                   |                 |                    |              |  |
| Remarks:      |   |         |                  |        |                   | I               |                    |              | -  |
| Tremaine.     |   |         |                  |        |                   |                 |                    |              |  |
|               |   |         |                  |        |                   |                 |                    |              |  |
|               |   |         |                  |        |                   |                 |                    |              |  |
|               |   |         |                  |        |                   |                 |                    |              |  |
|               |   |         |                  |        |                   |                 |                    |              |  |
|               |   |         |                  |        |                   |                 |                    |              |  |
|               |   |         |                  |        |                   |                 |                    |              |  |
|               |   |         |                  |        |                   |                 |                    |              |  |
|               |   |         |                  |        |                   |                 |                    |              |  |
|               |   |         |                  |        |                   |                 |                    |              |  |
|               |   |         |                  |        |                   |                 |                    |              |  |
|               |   |         |                  |        |                   |                 |                    |              |  |
|               |   |         |                  |        |                   |                 |                    |              |  |
|               |   |         |                  |        |                   |                 |                    |              |  |
|               |   |         |                  |        |                   |                 |                    |              |  |
|               |   |         |                  |        |                   |                 |                    |              |  |
|               |   |         |                  |        |                   |                 |                    |              |  |
|               |   |         |                  |        |                   |                 |                    |              |  |
|               |   |         |                  |        |                   |                 |                    |              |  |
|               |   |         |                  |        |                   |                 |                    |              |  |



Photo of Sample Plot North



Photo of Sample Plot South



| Project/Site: Flat Creek Solar Project   | City/County: Spra  | kers, Montgomery County   | Sampling Date  | : 2021-Sept-09                           |
|--|--|---|--|--|
| Applicant/Owner: SunEast   |  | State: NY   | Sampling Point:  | W-NSD-10_PSS-2                           |
| Investigator(s): Nick DeJohn, Brian Co   | orrigan  | Section, Township,  | Range: NA  |  |
| Landform (hillslope, terrace, etc.):   | Depression   | Local relief (concave, conv   | ex, none): Concave   | Slope (%): 0 to 1                        |
| Subregion (LRR or MLRA): LRR L   |  | Lat: 42.865758868   | 9 <b>Long:</b> -74.4880333264  | Datum: WGS84                             |
| Soil Map Unit Name: Lansing silt loar  | m, 3 to 8 percent slopes   |   | NWI classifi   | cation:                                  |
| Are climatic/hydrologic conditions on th   |  |   | (If no, explain in Rema  | arks.)                                   |
|  | Hydrology significantly dis  |   | al Circumstances" present?   | Yes No                                   |
| Are Vegetation, Soil, or   | Hydrology naturally problem  | ematic? (If needed,   | explain any answers in Ren   | narks.)                                  |
|  |  |   |  |  |
| SUMMARY OF FINDINGS – Attach   | site map showing samplir   | ng point locations, trar  | nsects, important featu  | res, etc.                                |
| Hydrophytic Vegetation Present?  | Yes _✓_ No   |   |  |  |
| Hydric Soil Present?   | Yes No   | Is the Sampled Area withi   | n a Wetland?   | Yes/_ No                                 |
| Wetland Hydrology Present?   | Yes No   | If yes, optional Wetland S  |  | W-NSD-10                                 |
| Remarks: (Explain alternative procedur   | <del></del>  | <u> </u>  | ite ib.  | VV-113D-10                               |
|  |  |   |  |  |
| HYDROLOGY  Wetland Hydrology Indicators:  Primary Indicators (minimum of one is.  Surface Water (A1)  High Water Table (A2)  Saturation (A3)  Water Marks (B1)  Sediment Deposits (B2)  Drift Deposits (B3)  Algal Mat or Crust (B4)  Iron Deposits (B5) | Water-Stained Lea<br>Aquatic Fauna (B1<br>Marl Deposits (B1!<br>Hydrogen Sulfide<br>Oxidized Rhizosph<br>Presence of Reduc | 3) 5) Odor (C1) heres on Living Roots (C3) ced Iron (C4) ttion in Tilled Soils (C6) | Secondary Indicators (mini Surface Soil Cracks (B6) Drainage Patterns (B10 Moss Trim Lines (B16) Dry-Season Water Table Crayfish Burrows (C8) Saturation Visible on Ae Stunted or Stressed Pla | e (C2)<br>erial Imagery (C9)<br>nts (D1) |
| Inundation Visible on Aerial Imager  | <del></del>  |   | Shallow Aquitard (D3)  | _  |
| Sparsely Vegetated Concave Surface   | • • • •  | •   | Microtopographic Relie   | f (D4)                                   |
| Field Observations:  |  |   | ✓ FAC-Neutral Test (D5)  |  |
|  | s No <u>_</u> /_ Depth   | (inches):   |  |  |
|  |  | ·   | Wetland Hydrology Presen   | +2 Vos / No                              |
|  |  | (inches):   | - wedand Hydrology Presen  | t? Yes No                                |
|  | s _ <b>/</b> No Depth  | (inches): 10  |  |  |
| (includes capillary fringe)  |  |   |  |  |
| Describe Recorded Data (stream gauge   | ء, monitoring well, aerial photos<br>  | s, previous inspections), if a  | available:   |  |
| Remarks:   |  |   |  |  |

| <u>Tree Stratum</u> (Plot size: <u>30 ft</u> )   |               | Dominant<br>Species? | Indicator<br>Status | Dominance Test works Number of Dominant |                |                 |             |
|--|---------------|----------------------|---------------------|---|----------------|-----------------|-------------|
| 1.   |               |                      |                     | Are OBL, FACW, or FAC                   | •              | 3               | (A)         |
| 2.   |               |                      |                     | Total Number of Domi                    |                |                 |             |
| 3.   |               |                      |                     | Across All Strata:                      | ·              | 3               | (B)         |
| 4.   |               |                      |                     | Percent of Dominant S                   | Species That   | 100             | (A /D)      |
| ·  |               |                      |                     | Are OBL, FACW, or FAC                   | :              | 100             | (A/B)       |
| 5.   |               |                      |                     | Prevalence Index work                   | sheet:         |                 |             |
| 6.   |               |                      |                     | Total % Cover                           | <u>r of:</u>   | <u>Multiply</u> | <u>By:</u>  |
| 7  |               |                      |                     | OBL species                             | 0              | x 1 =           | 0           |
|  | 0             | = Total Cove         | er                  | FACW species                            | 65             | x 2 =           | 130         |
| Sapling/Shrub Stratum (Plot size: 15 ft )        |               |                      |                     | FAC species                             | 60             | x 3 =           | 180         |
| 1. Cornus racemosa                               | 50            | Yes                  | FAC                 | FACU species                            | 15             | x 4 =           | 60          |
| 2  |               |                      |                     | UPL species                             | 0              | x 5 =           | 0           |
| 3  |               |                      |                     | Column Totals                           | 140            | (A)             | 370 (B)     |
| 4  |               |                      |                     |   | ndex = B/A =   | 2.6             | 370 (b)     |
| 5.   |               |                      |                     |   |                |                 | <del></del> |
| 6.   |               |                      |                     | Hydrophytic Vegetatio                   |                |                 |             |
| 7.   |               |                      |                     | 1- Rapid Test for                       |                | egetation/      | l           |
|  | 50            | = Total Cove         | er                  | 2 - Dominance Te                        |                |                 |             |
| Herb Stratum (Plot size:5 ft)                    |               | =                    |                     | 3 - Prevalence In                       |                |                 |             |
| 1. Onoclea sensibilis                            | 45            | Yes                  | FACW                | 4 - Morphologica                        |                |                 | supporting  |
| 2. Impatiens capensis                            | 20            | Yes                  | FACW                | data in Remarks or on                   |                |                 |             |
| 3. Solidago canadensis                           | 15            | No                   | FACU                | Problematic Hyd                         |                |                 | •           |
| 4. Solidago rugosa                               | 10            | No No                | FAC                 | ¹Indicators of hydric so                |                | -               | gy must be  |
|  |               | INO                  | FAC                 | present, unless distur                  |                | matic           |             |
| 5  |               |                      |                     | Definitions of Vegetati                 |                |                 |             |
| 6.   |               |                      |                     | Tree – Woody plants 3                   |                |                 | diameter at |
| 7  |               |                      |                     | breast height (DBH), re                 | -              | _               |             |
| 8.   |               |                      |                     | Sapling/shrub - Wood                    |                |                 | OBH and     |
| 9  |               |                      |                     | greater than or equal                   |                |                 |             |
| 10   |               |                      |                     | Herb – All herbaceous                   |                |                 | gardless of |
| 11   |               |                      |                     | size, and woody plants                  |                |                 | 20 %        |
| 12   |               |                      |                     | Woody vines – All woo                   | dy vines great | ter than 3.     | .28 π in    |
|  | 90            | = Total Cove         | er                  | height.                                 |                |                 |             |
| Woody Vine Stratum (Plot size: 30 ft)            |               |                      |                     | Hydrophytic Vegetation                  | on Present? \  | ∕es <u> </u>    | lo          |
| 1.   |               |                      |                     |   |                |                 |             |
| 2.   |               |                      |                     |   |                |                 |             |
| 3.   |               |                      |                     |   |                |                 |             |
| 4.   |               |                      |                     |   |                |                 |             |
| · ·  |               | = Total Cove         | r                   | •                                       |                |                 |             |
|  |               |                      |                     |   |                |                 |             |
| Remarks: (Include photo numbers here or on a sep | arate sheet.) |                      |                     |   |                |                 |             |
|  |               |                      |                     |   |                |                 |             |
|  |               |                      |                     |   |                |                 |             |
|  |               |                      |                     |   |                |                 |             |
|  |               |                      |                     |   |                |                 |             |
|  |               |                      |                     |   |                |                 |             |
|  |               |                      |                     |   |                |                 |             |
|  |               |                      |                     |   |                |                 |             |
|  |               |                      |                     |   |                |                 |             |

| Profile Desc<br>Depth   | ription: (Describe<br>Matrix | to the d | epth needed to do<br>Redox |        |                   | ndicato         | r or confirm the   | absence of indicato  | ors.)                                  |
|-------------------------|------------------------------|----------|----------------------------|--------|-------------------|-----------------|--------------------|----------------------|--|
| (inches)                | Color (moist)                | %        | Color (moist)              |        | Type <sup>1</sup> | Loc²            | Tex                | ture                 | Remarks                                |
| 0 - 6                   | 10YR 3/2                     | 100      | Color (moise)              |        | Турс              |                 |                    | ay Loam              | Kemana                                 |
| 6 - 20                  | 10YR 4/2                     | 95       |                            | _      |                   |                 |                    | Loam                 |  |
|                         |                              |          |                            | _      |                   |                 |                    |                      |  |
|                         |                              |          |                            | _      |                   |                 |                    |                      |  |
|                         |                              |          |                            | _      |                   |                 |                    |                      |  |
|                         |                              |          |                            | _      |                   |                 |                    |                      |  |
|                         |                              |          |                            | _      |                   |                 |                    |                      |  |
|                         |                              | - —      |                            | _      |                   |                 |                    |                      |  |
|                         |                              |          |                            | _      |                   |                 |                    |                      |  |
|                         | -                            |          |                            | _      |                   |                 |                    | ·                    |  |
|                         | -                            |          |                            | _      |                   |                 |                    | ·                    |  |
|                         |                              | - —      |                            | _      |                   |                 |                    |                      |  |
| 1Type: C = C            | oncentration D =             | Denletic | n PM = Peduced             | Mati   | riv MS =          | Maskad          | Sand Grains 2      | l ocation: PL = Pore | Lining, M = Matrix.                    |
| Hydric Soil             |                              | pehicul  | ii, Nivi – Neduced         | iviati | - CIVI , AI       | IVIUSKEU        | Juliu Grailis.     |                      | roblematic Hydric Soils <sup>3</sup> : |
| Histosol                |                              |          | Polyvalue Bel              | 0W/ S  | urface (S         | 8) <b>(I RP</b> | R MIRA 149R)       |                      | •                                      |
|                         | oipedon (A2)                 |          | Thin Dark Sur              |        |                   |                 |                    |                      | A10) (LRR K, L, MLRA 149B)             |
| Black Hi                |                              |          | Loamy Mucky                |        |                   |                 |                    |                      | e Redox (A16) (LRR K, L, R)            |
| Hydroge                 | en Sulfide (A4)              |          | Loamy Gleyed               |        |                   |                 |                    | S crit Mucky         | Peat or Peat (S3) (LRR K, L, R)        |
| Stratifie               | d Layers (A5)                |          | _✓ Depleted Mat            | rix (l | <del>-</del> 3)   |                 |                    |                      | elow Surface (S8) (LRR K, L)           |
|                         | d Below Dark Surfa           | ace (A11 |                            |        |                   |                 |                    | •                    | urface (S9) <b>(LRR K, L)</b>          |
|                         | ark Surface (A12)            |          | Depleted Dar               |        |                   |                 |                    |                      | nese Masses (F12) (LRR K, L, R)        |
|                         | lucky Mineral (S1)           |          | Redox Depre                | ssior  | ıs (F8)           |                 |                    | _                    | oodplain Soils (F19) (MLRA 149B)       |
| -                       | ileyed Matrix (S4)           |          |                            |        |                   |                 |                    |                      | c (TA6) <b>(MLRA 144A, 145, 149B)</b>  |
| -                       | edox (S5)                    |          |                            |        |                   |                 |                    | Red Parent N         |  |
|                         | d Matrix (S6)                |          |                            |        |                   |                 |                    | Very Shallow         | v Dark Surface (TF12)                  |
| Dark Su                 | rface (S7) <b>(LRR R, N</b>  | ILRA 14  | ∌B)                        |        |                   |                 |                    | Other (Expla         | in in Remarks)                         |
| <sup>3</sup> Indicators | of hydrophytic veg           | etation  | and wetland hydr           | olog   | y must be         | e preser        | nt, unless disturb | ed or problematic.   |  |
| Restrictive I           | ayer (if observed):          |          |                            |        |                   |                 |                    |                      |  |
|                         | Type:                        |          | None                       |        |                   | Hydric          | : Soil Present?    | ,                    | Yes No                                 |
|                         | Depth (inches):              |          |                            | ,      |                   |                 |                    |                      |  |
| Remarks:                | •                            |          |                            |        |                   | 1               |                    |                      |  |
|                         |                              |          |                            |        |                   |                 |                    |                      |  |
|                         |                              |          |                            |        |                   |                 |                    |                      |  |
|                         |                              |          |                            |        |                   |                 |                    |                      |  |
|                         |                              |          |                            |        |                   |                 |                    |                      |  |
|                         |                              |          |                            |        |                   |                 |                    |                      |  |
| İ                       |                              |          |                            |        |                   |                 |                    |                      |  |
|                         |                              |          |                            |        |                   |                 |                    |                      |  |
|                         |                              |          |                            |        |                   |                 |                    |                      |  |
|                         |                              |          |                            |        |                   |                 |                    |                      |  |
|                         |                              |          |                            |        |                   |                 |                    |                      |  |
|                         |                              |          |                            |        |                   |                 |                    |                      |  |
|                         |                              |          |                            |        |                   |                 |                    |                      |  |
|                         |                              |          |                            |        |                   |                 |                    |                      |  |
|                         |                              |          |                            |        |                   |                 |                    |                      |  |
|                         |                              |          |                            |        |                   |                 |                    |                      |  |
|                         |                              |          |                            |        |                   |                 |                    |                      |  |
|                         |                              |          |                            |        |                   |                 |                    |                      |  |
|                         |                              |          |                            |        |                   |                 |                    |                      |  |
|                         |                              |          |                            |        |                   |                 |                    |                      |  |



Photo of Sample Plot East



Photo of Sample Plot West



| Project/Site: Flat Creek Solar Pro   | oject                     | City/County: Spra  | kers, Montgomery County  | Samplin   | g Date: 2021-Sept-09   |
|--|---------------------------|--|--|---|--|
| Applicant/Owner: SunEast   |                           |  | State: NY  | Sampling  | Point: W-NSD-10_UPL-1  |
| Investigator(s): Nick DeJohn, B  | rian Corrigan             |  | Section, Township,   | Range: NA   |  |
| Landform (hillslope, terrace, etc.)  | ): Low Hill               |  | Local relief (concave, conv  | ex, none): Convex   | Slope (%): 1 to 3  |
| Subregion (LRR or MLRA): L   | .RR L                     |  | Lat: 42.865796797  | Long: -74.48798   | 343761 <b>Datum:</b> WGS84   |
| Soil Map Unit Name: Illion silt  | loam, 3 to 8 perce        | ent slopes   |  | NWI   | classification:  |
| Are climatic/hydrologic condition  | s on the site typic       | al for this time of yea  | ar? Yes 🟒 No   | (If no, explain i   | n Remarks.)  |
| Are Vegetation, Soil,  | or Hydrology .            | significantly dis  | sturbed? Are "Norm   | al Circumstances" pre   | esent? Yes 🟒 No  |
| Are Vegetation, Soil,  | or Hydrology <sub>.</sub> | naturally probl  | ematic? (If needed,  | explain any answers   | in Remarks.)   |
| SUMMARY OF FINDINGS – A  | Attach site map           | showing samplir  | ng point locations, trai   | nsects, important   | features. etc.   |
| Hydrophytic Vegetation Present   | -                         | No   |  | · '   | ·  |
| Hydric Soil Present?   | Yes                       | _ <b>∠</b> _ No  | Is the Sampled Area with   | in a Wetland?   | Yes No <u>/</u>  |
| Wetland Hydrology Present?   | Yes                       | No _ <b>_</b> _  | If yes, optional Wetland   | Site ID:  |  |
| Covertype is UPL.  |                           |  |  |   |  |
| Wetland Hydrology Indicators: Primary Indicators (minimum of  Surface Water (A1)  High Water Table (A2)  Saturation (A3)  Water Marks (B1)  Sediment Deposits (B2)  Drift Deposits (B3)  Algal Mat or Crust (B4)  Iron Deposits (B5)  Inundation Visible on Aerial  Sparsely Vegetated Concave |                           | Water-Stained Lea<br>Aquatic Fauna (B1<br>Marl Deposits (B15<br>Hydrogen Sulfide (<br>Oxidized Rhizosph<br>Presence of Reduc | 3) 5) Odor (C1) Heres on Living Roots (C3) Hed Iron (C4) Hition in Tilled Soils (C6) He (C7) | Surface Soil Crac Drainage Patterr Moss Trim Lines Dry-Season Wate Crayfish Burrow: Saturation Visible Stunted or Stres: Geomorphic Pos Shallow Aquitarc Microtopograph | ns (B10) (B16) (B16) er Table (C2) s (C8) e on Aerial Imagery (C9) sed Plants (D1) sition (D2) d (D3) ic Relief (D4) |
| Field Observations:  |                           |  |  | FAC-Neutral Test  | . (D5)   |
| Field Observations: Surface Water Present?   | Yes No _                  | / Donth /  | inches):   |   |  |
|  |                           |  | inches):   |   | D  |
| Water Table Present?   | Yes No _                  |  | inches):   | Wetland Hydrology   | Present? Yes No  |
| Saturation Present?  | Yes No _                  | <u>✓</u> Depth (   | inches):   | _   |  |
| (includes capillary fringe)  |                           |  |  |   | ·  |
| Describe Recorded Data (stream   | i gauge, monitorir        | ig weil, aeriai photos   | , previous inspections), ii  | avaliable:  |  |
|  |                           |  |  |   |  |

| 70 COVC | Species?                  | Indicator<br>Status                      | Number of Dominant Are OBL, FACW, or FAC                     | Species That   | 0  | (A)   |
|---------|---------------------------|--|--|--|--|---|
|         |                           |  | Total Number of Dom  |  |  |   |
|         |                           |  | Across All Strata:   | •  | 2  | (B)   |
|         |                           |  | Percent of Dominant S  | •  | 0  | (A/B)   |
|         |                           |  | Are OBL, FACW, or FAC  |  |  | (,,,,,  |
|         |                           |  |  |  |  |   |
|         |                           |  |  |  |  | -   |
|         | = Total Cove              | er                                       | '  |  | -  | 0   |
|         | _                         | -  | · ·  |  | -  | 0   |
|         |                           |  | ·  |  | -  | 0   |
|         |                           |  | · ·  |  | -  | 260   |
|         |                           |  | · ·  |  | x 5 =  | 125   |
|         |                           |  | Column Totals  | 90   | (A)  | 385 (B)   |
|         |                           |  | Prevalence I   | ndex = B/A =   | 4.3  |   |
|         |                           |  | Hydrophytic Vegetation                                       | n Indicators:  |  |   |
|         |                           |  | 1- Rapid Test for  | Hydrophytic V  | egetation/   | 1   |
|         | - Total Cove              |  | 2 - Dominance To   | est is > 50%   |  |   |
|         | _ TOLAT COVE              | 21                                       | 3 - Prevalence In  | dex is $\leq 3.0^{1}$  |  |   |
| 40      | Voc                       | FACIL                                    | 4 - Morphologica   | l Adaptations  | (Provide   | supporting  |
|         |                           |  | data in Remarks or on  | ı a separate sh  | ieet)  |   |
|         |                           |  |  | . , .  | -  |   |
|         |                           |  |  |  | -  | gy must be  |
| 10      | No                        | UPL                                      | present, unless distur                                       | bed or problei   | matic  |   |
|         |                           |  | Definitions of Vegetat                                       | ion Strata:  |  |   |
|         |                           |  |  |  |  | diameter at   |
|         |                           |  | •  | -  | _  |   |
|         |                           |  |  |  |  | DBH and   |
|         |                           |  | .  |  |  |   |
|         |                           |  |  | -  |  | gardless of   |
|         |                           |  |  |  |  | 20 ft in  |
|         |                           |  | =  | ody vines great  | ter than 3   | .28 11 111  |
| 90      | = Total Cove              | er                                       |  |  |  |   |
|         |                           |  | Hydrophytic Vegetati   | on Present? \  | /es N  | √ Vo  |
|         |                           |  |  |  |  |   |
|         |                           |  |  |  |  |   |
|         |                           |  |  |  |  |   |
|         |                           |  |  |  |  |   |
|         | = Total Cove              | er e                                     |  |  |  |   |
|         | 0<br>40<br>25<br>15<br>10 | 0 = Total Cove 40 Yes 25 Yes 15 No 10 No | 0 = Total Cover  40 Yes FACU 25 Yes FACU 15 No UPL 10 No UPL | Prevalence Index work  Total % Cove  OBL species FACW species FACU species UPL species UPL species Column Totals Prevalence I Hydrophytic Vegetatio 1- Rapid Test for 2 - Dominance To 3 - Prevalence In 40 Yes FACU 25 Yes FACU 15 No UPL 10 No UPL 10 No UPL 10 No UPL Definitions of Vegetation Definitions of Vegetation Tree - Woody plants 3 breast height (DBH), research than or equal Herb - All herbaceous size, and woody plant Woody vines - All woodheight. | Prevalence Index worksheet:  Total % Cover of:  OBL species 0 FACW species 0 FACW species 65 UPL species 25 Column Totals 90 Prevalence Index = B/A = Hydrophytic Vegetation Indicators:  1 - Rapid Test for Hydrophytic V 2 - Dominance Test is > 50% 3 - Prevalence Index is ≤ 3.0¹ 4 - Morphological Adaptations' data in Remarks or on a separate sh Problematic Hydrophytic Vege 15 No UPL 10 No UPL 10 No UPL 10 No UPL 10 No UPL 11 Definitions of Vegetation Strata: Tree - Woody plants 3 in. (7.6 cm) or breast height (DBH), regardless of h Sapling/shrub - Woody plants less tigreater than or equal to 3.28 ft (1 m Herb - All herbaceous (non-woody) size, and woody vines great height.  Woody vines - All woody vines great height. | Prevalence Index worksheet:  Total % Cover of:    Dal Species   0 |

|             | scription: (Describe  | to the de | -                   |          |                   | indicato         | r or confirm the   | absence of indicato        | ors.)                                 |
|-------------|-----------------------|-----------|---------------------|----------|-------------------|------------------|--------------------|----------------------------|---------------------------------------|
| Depth       | Matrix                |           | Redox               |          |                   |                  | -                  |                            |                                       |
| (inches)    | Color (moist)         |           | Color (moist)       | <u>%</u> | Type <sup>1</sup> | Loc <sup>2</sup> |                    | ture                       | Remarks                               |
| 0 - 8       | 10YR 3/2              | 100       | 10YR 3/2            |          |                   |                  |                    | ay Loam                    |                                       |
| 8 - 18      | 10YR 4/2              | 95        | 7.5YR 4/6           | 5        | C                 | M                | Clay               | Loam                       |                                       |
|             |                       |           |                     | - —      |                   |                  |                    |                            |                                       |
|             |                       | - —       |                     |          |                   |                  |                    |                            |                                       |
|             |                       |           |                     | - —      |                   |                  |                    |                            |                                       |
|             |                       |           |                     | - —      |                   |                  |                    |                            |                                       |
|             |                       |           |                     | - —      |                   |                  |                    |                            |                                       |
|             |                       |           |                     | - —      |                   |                  |                    |                            |                                       |
|             |                       |           |                     | - —      |                   |                  |                    |                            |                                       |
|             | -                     |           |                     | -        |                   |                  |                    |                            |                                       |
|             |                       |           |                     | - —      |                   |                  |                    |                            |                                       |
| 1T C        | Comment of D          |           | - DM Dadward        |          |                   |                  | Sand Coales 3      | La cationa Di Dana         | Links - M. Markets                    |
|             |                       | Debletio  | ori, kivi = Keaucea | iviat    | 11X, IVIS =       | iviasked         | Sand Grains. 2     |                            | Lining, M = Matrix.                   |
| Histoso     | Indicators:           |           | Polyvalue Pol       | ا مید د  | iurfaco (C        | (8) (I DD        | R, MLRA 149B)      |                            | roblematic Hydric Soils³:             |
|             | pipedon (A2)          |           | Thin Dark Su        |          |                   |                  | •                  |                            | A10) (LRR K, L, MLRA 149B)            |
|             | listic (A3)           |           | Loamy Mucky         |          |                   |                  |                    |                            | Redox (A16) (LRR K, L, R)             |
|             | gen Sulfide (A4)      |           | Loamy Gleye         |          |                   | ` '              | •                  | 5 cm Mucky<br>Dark Surface | Peat or Peat (S3) (LRR K, L, R)       |
| Stratifie   | ed Layers (A5)        |           | _✓ Depleted Ma      |          |                   |                  |                    |                            | elow Surface (S8) (LRR K, L)          |
|             | ed Below Dark Surf    |           |                     |          |                   |                  |                    | -                          | urface (S9) <b>(LRR K, L)</b>         |
|             | Park Surface (A12)    |           | Depleted Dar        |          |                   | )                |                    |                            | nese Masses (F12) (LRR K, L, R)       |
| -           | Mucky Mineral (S1)    |           | Redox Depre         | ssior    | ıs (F8)           |                  |                    |                            | oodplain Soils (F19) (MLRA 149B)      |
| -           | Gleyed Matrix (S4)    |           |                     |          |                   |                  |                    |                            | c (TA6) <b>(MLRA 144A, 145, 149B)</b> |
| _           | Redox (S5)            |           |                     |          |                   |                  |                    | Red Parent N               | Material (F21)                        |
|             | ed Matrix (S6)        | 41.54.44  | 202                 |          |                   |                  |                    | Very Shallow               | <i>u</i> Dark Surface (TF12)          |
| Dark St     | urface (S7) (LRR R, N | /ILKA 14  | 98)                 |          |                   |                  |                    | Other (Expla               | in in Remarks)                        |
| 3Indicators | of hydrophytic veg    | etation   | and wetland hydr    | olog     | y must b          | e preser         | nt, unless disturb | ed or problematic.         |                                       |
| Restrictive | Layer (if observed):  | :         |                     |          |                   |                  |                    |                            |                                       |
|             | Type:                 |           | None                | _        |                   | Hydrid           | Soil Present?      | ,                          | Yes No                                |
|             | Depth (inches):       |           |                     |          |                   |                  |                    |                            |                                       |
| Remarks:    |                       |           |                     |          |                   |                  |                    |                            |                                       |
|             |                       |           |                     |          |                   |                  |                    |                            |                                       |
|             |                       |           |                     |          |                   |                  |                    |                            |                                       |
|             |                       |           |                     |          |                   |                  |                    |                            |                                       |
|             |                       |           |                     |          |                   |                  |                    |                            |                                       |
|             |                       |           |                     |          |                   |                  |                    |                            |                                       |
|             |                       |           |                     |          |                   |                  |                    |                            |                                       |
|             |                       |           |                     |          |                   |                  |                    |                            |                                       |
|             |                       |           |                     |          |                   |                  |                    |                            |                                       |
|             |                       |           |                     |          |                   |                  |                    |                            |                                       |
|             |                       |           |                     |          |                   |                  |                    |                            |                                       |
|             |                       |           |                     |          |                   |                  |                    |                            |                                       |
|             |                       |           |                     |          |                   |                  |                    |                            |                                       |
|             |                       |           |                     |          |                   |                  |                    |                            |                                       |
|             |                       |           |                     |          |                   |                  |                    |                            |                                       |
|             |                       |           |                     |          |                   |                  |                    |                            |                                       |
|             |                       |           |                     |          |                   |                  |                    |                            |                                       |
|             |                       |           |                     |          |                   |                  |                    |                            |                                       |
|             |                       |           |                     |          |                   |                  |                    |                            |                                       |
|             |                       |           |                     |          |                   |                  |                    |                            |                                       |



Photo of Sample Plot North



Photo of Sample Plot South



| Project/Site: Flat Creek Solar Pro   | ject                                    | _City/County: Spra   | akers, Montgomery County   | Samplin   | g Date: 2021-Sept-09   |
|--|---|--|--|---|--|
| Applicant/Owner: SunEast   |   |  | State: NY  | Sampling I  | Point: W-NSD-10_UPL-2  |
| Investigator(s): Nick DeJohn, B  | rian Corrigan                           |  | Section, Township,   | Range: NA   |  |
| Landform (hillslope, terrace, etc.)  | : Low Hill                              |  | Local relief (concave, conv  | rex, none): Convex  | Slope (%): 1 to 3  |
| Subregion (LRR or MLRA): L   | RR L                                    |  | Lat: 42.866470618  | 2 <b>Long:</b> -74.48661  | 16198 Datum: WGS84   |
| Soil Map Unit Name: Darien si  | lt loam, 3 to 8 perc                    | ent slopes   |  | NWI   | classification:  |
| Are climatic/hydrologic condition  | s on the site typica                    | al for this time of ye   | ar? Yes 🟒 No   | (If no, explain in  | n Remarks.)  |
| Are Vegetation, Soil,  | or Hydrology _                          | significantly dis  | sturbed? Are "Norm   | al Circumstances" pre   | esent? Yes 🟒 No  |
| Are Vegetation, Soil,  | or Hydrology _                          | naturally probl  | lematic? (If needed,   | explain any answers   | in Remarks.)   |
| SUMMARY OF FINDINGS – A  | kttach site map                         | showing sampli   | ng point locations, tra  | nsects, important   | features, etc.   |
| Hydrophytic Vegetation Present   | ? Yes                                   | No _ <b>_</b> _  |  |   |  |
| Hydric Soil Present?   | Yes .                                   | No <u>_</u>  | Is the Sampled Area with   | n a Wetland?  | Yes No✓  |
| Wetland Hydrology Present?   | Yes                                     | No _ <b>_</b> _  | If yes, optional Wetland S   | ite ID:   |  |
| Covertype is UPL.  |   |  |  |   |  |
| HYDROLOGY  Wetland Hydrology Indicators:  Primary Indicators (minimum of  Surface Water (A1)  High Water Table (A2)  Saturation (A3)  Water Marks (B1)  Sediment Deposits (B2)  Drift Deposits (B3)  Algal Mat or Crust (B4)  Iron Deposits (B5)  Inundation Visible on Aerial I  Sparsely Vegetated Concave | . — — — — — — — — — — — — — — — — — — — | _ Water-Stained Lea<br>_ Aquatic Fauna (B1<br>_ Marl Deposits (B1<br>_ Hydrogen Sulfide<br>_ Oxidized Rhizosph<br>_ Presence of Redu | 3) 5) Odor (C1) neres on Living Roots (C3) ced Iron (C4) ction in Tilled Soils (C6) e (C7) | Surface Soil Crac<br>Drainage Patterr<br>Moss Trim Lines<br>Dry-Season Wate<br>Crayfish Burrows | ns (B10) (B16) (B16) er Table (C2) s (C8) e on Aerial Imagery (C9) sed Plants (D1) sition (D2) d (D3) ic Relief (D4) |
| Field Observations:  |   |  |  |   | (03)   |
| Surface Water Present?   | Yes No _                                | ✓ Depth  | (inches):  |   |  |
| Water Table Present?   | Yes No _                                | ·  | (inches):  | -<br> <br>  Wetland Hydrology   | Present? Yes No  |
|  |   |  | · -  | - Wedana Hydrology  | resent.  |
| Saturation Present?  | Yes No _                                | <b>∠</b> Depth   | (inches):  | =   |  |
| (includes capillary fringe)  |   |  |  |   | <del></del>  |
| Describe Recorded Data (stream Remarks:  | i gauge, monicomi                       | g weil, aeriai prioto:   | s, previous inspections), ii   | ачанаше.  |  |
|  |   |  |  |   |  |

| <u>Tree Stratum</u> (Plot size: <u>30 ft</u> ) |     |             |        |  |             |             |
|--|-----|-------------|--------|--|-------------|-------------|
|  |     | Dominant    |        | Dominance Test worksheet:  |             |             |
|  |     | Species?    | Status | Number of Dominant Species That Are OBL, FACW, or FAC:               | 1           | (A)         |
| 1. Tsuga canadensis                            | 70  | Yes         | FACU   | Total Number of Dominant Species                                     |             |             |
| 2  |     |             |        | Across All Strata:   | 3           | (B)         |
| 3.   |     |             |        | Percent of Dominant Species That                                     |             |             |
| 4  |     |             |        | Are OBL, FACW, or FAC:   | 33.3        | (A/B)       |
| 5  |     |             |        | Prevalence Index worksheet:  |             |             |
| 6  |     |             |        | Total % Cover of:  | Multiply I  | В <u>v:</u> |
| 7  |     |             |        | - OBL species 0  | x 1 =       | 0           |
|  | 70  | = Total Cov | er     | FACW species 0   | x 2 =       | 0           |
| Sapling/Shrub Stratum (Plot size: 15 ft )      |     |             |        | FAC species 10   | x 3 =       | 30          |
| 1. Carpinus caroliniana                        | 10  | Yes         | FAC    | FACU species 85  | x 4 =       | 340         |
| 2  |     |             |        | - UPL species 0  | x 5 =       | 0           |
| 3  |     |             |        | - Column Totals 95   | (A)         | 370 (B)     |
| 4  |     |             |        | Prevalence Index = B/A =   | 3.9         | 370 (B)     |
| 5  |     |             |        |  |             | <del></del> |
| 6.   |     |             |        | Hydrophytic Vegetation Indicators:                                   | (t-t'       |             |
| 7  |     |             |        | 1- Rapid Test for Hydrophytic  | vegetation  |             |
|  | 10  | = Total Cov | er     | 2 - Dominance Test is > 50%  |             |             |
| Herb Stratum (Plot size:5 ft)                  |     | -           |        | 3 - Prevalence Index is ≤ 3.0¹                                       | 1 (D        |             |
| 1. Veronica officinalis                        | 15  | Yes         | FACU   | 4 - Morphological Adaptations<br>data in Remarks or on a separate sl |             | supporting  |
| 2.   |     |             |        | -   Problematic Hydrophytic Vege                                     |             | nlain)      |
| 3.   |     |             |        | Indicators of hydric soil and wetlan                                 |             |             |
| 4.   |     |             |        | present, unless disturbed or proble                                  |             | gy must be  |
| 5.   |     |             |        | Definitions of Vegetation Strata:                                    | matic       |             |
| 6.   |     |             |        | Tree – Woody plants 3 in. (7.6 cm) o                                 | r moro in c | liamotor at |
| 7.   |     |             |        | breast height (DBH), regardless of h                                 |             | nameter at  |
| 8.   |     |             |        | Sapling/shrub – Woody plants less t                                  | -           | BH and      |
| 9.   |     |             |        | greater than or equal to 3.28 ft (1 m                                |             | 5           |
| 10   |     |             |        | Herb – All herbaceous (non-woody)                                    |             | ardless of  |
| 11   | · · |             |        | size, and woody plants less than 3.2                                 |             |             |
| 12   |     |             |        | Woody vines – All woody vines grea                                   | ter than 3. | 28 ft in    |
| 12   | 15  | - Total Cau |        | height.  |             |             |
| Manada Vina Charles (Diet sing 20 ft )         | 15  | = Total Cov | er     | Hydrophytic Vegetation Present?                                      | Yes N       | 0 /         |
| Woody Vine Stratum (Plot size: 30 ft )         |     |             |        | The springer against the second                                      |             |             |
| 1.   |     |             |        | -  |             |             |
| 2  |     |             |        | -  |             |             |
| ¯ <del></del>                                  |     |             |        | -  |             |             |
| 2  |     |             |        |  |             |             |
| ¯ <del></del>                                  |     | = Total Cov |        | -  |             |             |

|                   | scription: (Describe             | to the d    |                    |          |                   | indicato         | r or confirm the   | absence of indi  | cators.)   |
|-------------------|----------------------------------|-------------|--------------------|----------|-------------------|------------------|--------------------|------------------|--|
| Depth<br>(inches) | Matrix Color (moist)             |             | Redox              |          |                   | 100              | Tarak              | uro              | Domarks  |
| (inches)          | Color (moist)                    |             | Color (moist)      | <u>%</u> | Type <sup>1</sup> | Loc <sup>2</sup> | Text               |                  | Remarks  |
| 0 - 9             | 10YR 4/4                         | 100         |                    | _        |                   | . ——             | Sandy              |                  | -  |
| 9 - 18            | 10YR 5/3                         | 100         |                    | _        |                   | . ——             | Sandy              | Loam             | -  |
|                   |                                  |             |                    | _        |                   |                  |                    |                  |  |
|                   |                                  |             |                    | _        |                   | . ——             | -                  |                  | -  |
|                   |                                  |             |                    | _        |                   | · ——             |                    |                  |  |
|                   |                                  |             |                    | _        |                   | · ——             |                    |                  |  |
|                   |                                  |             |                    | _        |                   | · ——             |                    |                  |  |
|                   |                                  |             |                    | _        |                   | · ——             |                    |                  |  |
|                   |                                  |             |                    | _        |                   | · ——             |                    |                  |  |
|                   |                                  |             |                    | _        |                   | . ——             |                    |                  |  |
|                   |                                  |             |                    | _        |                   | . ——             |                    |                  |  |
| 1Tyroot C =       | Concentration D =                | Dopletic    | n DM = Doducod     |          | riv MC -          | Mackee           | L Cand Crains 1    | Placation DL = F | Poro Lining M = Matrix   |
|                   | Indicators:                      | Dehleri     | on, Kivi – Keduced | ıvıdl    | 1 IX, IVIS =      | iviasked         | ı sanu Glallıs. '  |                  | Pore Lining, M = Matrix.  or Problematic Hydric Soils <sup>3</sup> :                 |
| Histoso           |                                  |             | Polyvalue Rel      | 0W S     | Surface (         | 58) <b>(I RP</b> | R, MLRA 149B)      |                  | •  |
|                   | Epipedon (A2)                    |             | Thin Dark Sur      |          |                   |                  |                    |                  | ck (A10) (LRR K, L, MLRA 149B)   |
|                   | listic (A3)                      |             | Loamy Mucky        |          |                   |                  |                    |                  | airie Redox (A16) <b>(LRR K, L, R)</b><br>cky Peat or Peat (S3) <b>(LRR K, L, R)</b> |
|                   | gen Sulfide (A4)                 |             | Loamy Gleyed       |          |                   | ·                |                    |                  | face (S7) <b>(LRR K, L)</b>  |
|                   | ed Layers (A5)                   |             | Depleted Mat       | -        | •                 |                  |                    |                  | e Below Surface (S8) (LRR K, L)  |
|                   | ed Below Dark Surf               | ace (A11    |                    |          |                   |                  |                    | •                | k Surface (S9) (LRR K, L)  |
|                   | Dark Surface (A12)               |             | Depleted Dar       |          |                   | )                |                    |                  | nganese Masses (F12) (LRR K, L, R)   |
| -                 | Mucky Mineral (S1)               |             | Redox Depre        | ssior    | 1S (F8)           |                  |                    |                  | nt Floodplain Soils (F19) <b>(MLRA 149B)</b>   |
| -                 | Gleyed Matrix (S4)<br>Redox (S5) |             |                    |          |                   |                  |                    | Mesic Sp         | oodic (TA6) <b>(MLRA 144A, 145, 149B)</b>  |
| _                 | ed Matrix (S6)                   |             |                    |          |                   |                  |                    |                  | ent Material (F21)   |
|                   | urface (S7) <b>(LRR R, N</b>     | ΛΙ DΔ 1./   | QR)                |          |                   |                  |                    | -                | llow Dark Surface (TF12)   |
| Dark 3            | unace (37) (ERR R, R             | VILIO ( I T | 56)                |          |                   |                  |                    | Other (E         | xplain in Remarks)   |
|                   | of hydrophytic veg               |             | and wetland hydr   | olog     | y must b          | e preser         | nt, unless disturk | oed or problema  | atic.  |
| Restrictive       | Layer (if observed):             |             |                    |          |                   |                  |                    |                  |  |
|                   | Type:                            |             | None               |          |                   | Hydrid           | : Soil Present?    |                  | Yes No <u>_</u> ✓  |
|                   | Depth (inches):                  |             |                    |          |                   |                  |                    |                  |  |
| Remarks:          |                                  |             |                    |          |                   |                  |                    |                  |  |
|                   |                                  |             |                    |          |                   |                  |                    |                  |  |
|                   |                                  |             |                    |          |                   |                  |                    |                  |  |
|                   |                                  |             |                    |          |                   |                  |                    |                  |  |
|                   |                                  |             |                    |          |                   |                  |                    |                  |  |
|                   |                                  |             |                    |          |                   |                  |                    |                  |  |
|                   |                                  |             |                    |          |                   |                  |                    |                  |  |
|                   |                                  |             |                    |          |                   |                  |                    |                  |  |
|                   |                                  |             |                    |          |                   |                  |                    |                  |  |
|                   |                                  |             |                    |          |                   |                  |                    |                  |  |
|                   |                                  |             |                    |          |                   |                  |                    |                  |  |
|                   |                                  |             |                    |          |                   |                  |                    |                  |  |
|                   |                                  |             |                    |          |                   |                  |                    |                  |  |
|                   |                                  |             |                    |          |                   |                  |                    |                  |  |
|                   |                                  |             |                    |          |                   |                  |                    |                  |  |
|                   |                                  |             |                    |          |                   |                  |                    |                  |  |
|                   |                                  |             |                    |          |                   |                  |                    |                  |  |
|                   |                                  |             |                    |          |                   |                  |                    |                  |  |
|                   |                                  |             |                    |          |                   |                  |                    |                  |  |



Photo of Sample Plot East



Photo of Sample Plot West



| Project/Site: Flat Creek Solar Pr   | ·oject            | City/Co                                | unty: Sprakers, Montgomery Cour      | nty Sampling Dat                                   | te: 2021-Sept-09                 |
|---|-------------------|--|--------------------------------------|--|----------------------------------|
| Applicant/Owner: SunEast  |                   |  | State: N                             | Y Sampling Point                                   | :_ W-NSD-11_PEM-1                |
| Investigator(s): Nick DeJohn, E   | Brian Corrigan    |  | Section, Townsh                      | ip, Range: NA                                      |                                  |
| Landform (hillslope, terrace, etc   | .): Depress       | sion                                   | Local relief (concave, co            | nvex, none): Concave                               | Slope (%): 0 to 1                |
| Subregion (LRR or MLRA):  | LRR L             |  | Lat: 42.8650837                      | 485 <b>Long:</b> -74.480673847                     | 78 Datum: WGS84                  |
| Soil Map Unit Name: Water   |                   |  |                                      | NWI class  | ification:                       |
| Are climatic/hydrologic condition   | ns on the site ty | pical for this                         | time of year? Yes/_ \                | No (If no, explain in Ren                          | narks.)                          |
| Are Vegetation, Soil,   | or Hydrolo        | ogy sign                               | ificantly disturbed? Are "Nor        | mal Circumstances" present                         | ? Yes 🟒 No                       |
| Are Vegetation, Soil,   | or Hydrolo        | ogy natu                               | ırally problematic? (If neede        | d, explain any answers in Re                       | emarks.)                         |
| SUMMARY OF FINDINGS –  Hydrophytic Vegetation Present Hydric Soil Present?  Wetland Hydrology Present?  Remarks: (Explain alternative powertype is PEM. | nt? Y<br>Y        | /es/_ No _<br>/es/_ No _<br>/es/_ No _ | Is the Sampled Area wit              | thin a Wetland?                                    | ures, etc.  Yes _✓_ No  W-NSD-11 |
| HYDROLOGY  Wetland Hydrology Indicators:  Primary Indicators (minimum o  Surface Water (A1)   | of one is require |  | hat apply)<br>Stained Leaves (B9)    | Secondary Indicators (mi<br>Surface Soil Cracks (B | 6)                               |
| Surface Water (A1) High Water Table (A2)  |                   |  | : Fauna (B13)                        | Drainage Patterns (B1                              | 0)                               |
| Saturation (A3)   |                   | •                                      | eposits (B15)                        | Moss Trim Lines (B16)                              | )                                |
| Water Marks (B1)  |                   |  | en Sulfide Odor (C1)                 | Dry-Season Water Tab                               |                                  |
| Sediment Deposits (B2)  |                   |  | ed Rhizospheres on Living Roots (C3  | Crayfish Burrows (C8)                              |                                  |
| Drift Deposits (B3)   |                   |  | ce of Reduced Iron (C4)              | Saturation Visible on A                            |                                  |
| Algal Mat or Crust (B4)   |                   |  | Iron Reduction in Tilled Soils (C6)  | Stunted or Stressed P                              |                                  |
| Iron Deposits (B5)  |                   |  | uck Surface (C7)                     | ✓ Geomorphic Position                              |                                  |
| Inundation Visible on Aerial  | Imagery (B7)      |  | Explain in Remarks)                  | Shallow Aquitard (D3)                              |                                  |
| Sparsely Vegetated Concave  |                   | (                                      | ,                                    | Microtopographic Rel                               |                                  |
|   |                   |  |                                      | ✓ FAC-Neutral Test (D5)                            |                                  |
| Field Observations:   |                   | N                                      | Don'th Cook on                       |  |                                  |
| Surface Water Present?  | Yes 1             |  | Depth (inches):                      | -[   | v                                |
| Water Table Present?  | Yes !             |  | Depth (inches):                      |  | ent? Yes No                      |
| Saturation Present?   | Yes !             | No <u>/</u>                            | Depth (inches):                      | _  |                                  |
| (includes capillary fringe)   |                   |  |                                      |  |                                  |
|   | m gauge, monit    | oring well, a                          | erial photos, previous inspections), | if available:                                      |                                  |
| Describe Recorded Data (stream  | in gaage, monie   | ornig wen, ac                          | .nai priocos, previous inspections,  | ii available.                                      |                                  |
|   |                   |  |                                      |  |                                  |
|   |                   |  |                                      |  |                                  |
| Remarks:  |                   |  |                                      |  |                                  |
|   |                   |  |                                      |  |                                  |
|   |                   |  |                                      |  |                                  |
|   |                   |  |                                      |  |                                  |
|   |                   |  |                                      |  |                                  |
|   |                   |  |                                      |  |                                  |
|   |                   |  |                                      |  |                                  |
|   |                   |  |                                      |  |                                  |
|   |                   |  |                                      |  |                                  |

| ·   |                |             |        |  |   |               |
|---|----------------|-------------|--------|--|---|---------------|
| <u>Tree Stratum</u> (Plot size: <u>30 ft</u> )                |                | Dominant    |        | Dominance Test worksheet:                              |   |               |
|   | % Cover        | Species?    | Status | Number of Dominant Species That                        | 2   | (A)           |
| 1   |                |             |        | Are OBL, FACW, or FAC:                                 |   |               |
| 2   |                |             |        | Total Number of Dominant Species Across All Strata:    | 3   | (B)           |
| 3   |                |             |        | Percent of Dominant Species That                       |   | <del></del>   |
| 4   |                |             |        | - Are OBL, FACW, or FAC:                               | 66.7  | (A/B)         |
| 5   |                |             |        | Prevalence Index worksheet:                            |   |               |
| 6.  |                |             |        | - Total % Cover of:                                    | Multiply  | D. a          |
| 7.  |                |             |        | · · · · · · · · · · · · · · · · · · ·                  | <u>Multiply                                    </u> | -             |
|   | 0              | = Total Cov | er     | OBL species 10   | -   | 10            |
| Sapling/Shrub Stratum (Plot size:15 ft)                       |                | -           |        | FACW species 60  | x 2 = _   | 120           |
| 1.  |                |             |        | FAC species 0  | x 3 =   | 0             |
|   |                |             |        | FACU species 20  | x 4 =   | 80            |
| 3.  |                |             |        | - UPL species 0  | x 5 =   | 0             |
| 4.  |                |             |        | - Column Totals 90                                     | (A)   | 210 (B)       |
|   |                |             |        | Prevalence Index = B/A =                               | 2.3   |               |
| 5.  |                |             |        | Hydrophytic Vegetation Indicators:                     |   |               |
| 6.  |                |             |        | 1- Rapid Test for Hydrophytic                          | Vegetation  |               |
| 7   |                |             |        | 2 - Dominance Test is >50%                             | J   |               |
|   | 0              | = Total Cov | er     | $\checkmark$ 3 - Prevalence Index is $\le 3.0^{\circ}$ |   |               |
| Herb Stratum (Plot size:5 ft)                                 |                |             |        | 4 - Morphological Adaptations                          | s¹ (Provide   | supporting    |
| 1. <i>Phalaris arundinacea</i>                                | 40             | Yes         | FACW   | data in Remarks or on a separate s                     |   | 200009        |
| 2. Phragmites australis                                       | 20             | Yes         | FACW   | Problematic Hydrophytic Vege                           |   | plain)        |
| 3. <i>Trifolium pratense</i>                                  | 20             | Yes         | FACU   | - Indicators of hydric soil and wetlar                 |   |               |
| 4. Lythrum salicaria  | 10             | No          | OBL    | present, unless disturbed or proble                    |   | 5,            |
| 5.  |                |             |        | Definitions of Vegetation Strata:                      |   |               |
| 6.  | ·              |             |        | Tree – Woody plants 3 in. (7.6 cm) c                   | or more in (  | diameter at   |
| 7.  |                |             |        | breast height (DBH), regardless of h                   |   | alarricter at |
| 8.  |                |             |        | Sapling/shrub – Woody plants less                      | _   | BH and        |
| 9.  |                |             |        | greater than or equal to 3.28 ft (1 n                  |   |               |
| 10  |                |             |        | Herb – All herbaceous (non-woody)                      |   | ardless of    |
|   |                |             |        | size, and woody plants less than 3                     |   | ,             |
| 11.   |                |             |        | Woody vines – All woody vines grea                     |   | 28 ft in      |
| 12  |                |             |        | height.  |   |               |
|   | 90             | = Total Cov | er     | Hydrophytic Vegetation Present?                        | Voc / N   | 0             |
| Woody Vine Stratum (Plot size: 30 ft )                        |                |             |        | Trydrophytic vegetation resent:                        | 163 <u>v</u> 1                                      | <u> </u>      |
| 1   |                |             |        | -  |   |               |
| 2   |                |             |        | _  |   |               |
| 3   |                |             |        | _  |   |               |
| 4   |                |             |        | _  |   |               |
|   | 0              | = Total Cov | er     |  |   |               |
| Demonstrat (In all ride in blacks in combine in a new combine |                | -           |        |  |   |               |
| Remarks: (Include photo numbers here or on a se               | parate sneet.) |             |        |  |   |               |
|   |                |             |        |  |   |               |
|   |                |             |        |  |   |               |
|   |                |             |        |  |   |               |
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|   |                |             |        |  |   |               |
|   |                |             |        |  |   |               |
|   |                |             |        |  |   |               |
|   |                |             |        |  |   |               |

| Profile Desc  | ription: (Describe t | o the d  | epth needed to d | ocun    | nent the i        | indicato       | r or confirm the          | absence of indicat | ors.)   |
|---------------|----------------------|----------|------------------|---------|-------------------|----------------|---------------------------|--------------------|---|
| Depth         | Matrix               |          | Redox            | Feat    | ures              |                |                           |                    |   |
| (inches)      | Color (moist)        | %        | Color (moist)    | %       | Type <sup>1</sup> | Loc2           | Tex                       | ture               | Remarks   |
| 0 - 20        | 10YR 3/1             | 95       | 5YR 4/6          | 5       | С                 | М              | Silty Cla                 | ay Loam            |   |
|               |                      |          |                  | _       |                   |                |                           |                    |   |
|               |                      |          |                  | _       |                   |                |                           |                    |   |
|               |                      |          |                  | _       |                   |                |                           |                    |   |
|               |                      |          |                  | _       |                   |                | -                         |                    |   |
|               |                      | · — ·    |                  | · —     |                   |                |                           |                    |   |
|               |                      | . — .    |                  | -       |                   |                | -                         |                    |   |
|               |                      | · — ·    |                  | · —     |                   |                |                           |                    |   |
|               |                      | . — .    |                  |         |                   |                |                           |                    |   |
|               |                      |          |                  |         |                   |                |                           |                    |   |
|               |                      |          |                  |         |                   |                |                           |                    |   |
|               |                      |          |                  |         |                   |                |                           |                    |   |
|               |                      |          |                  |         |                   |                |                           |                    |   |
| ¹Type: C = C  | oncentration, D = [  | Depletio | on, RM = Reduced | Mat     | rix, MS =         | Masked         | Sand Grains. <sup>2</sup> | Location: PL = Por | e Lining, M = Matrix.   |
| Hydric Soil I |                      | -        |                  |         |                   |                |                           |                    | Problematic Hydric Soils <sup>3</sup> :                                   |
| Histosol      |                      |          | Polyvalue Be     | low S   | urface (S         | 8) <b>(LRR</b> | R, MLRA 149B)             |                    | •   |
|               | ipedon (A2)          |          | Thin Dark Su     |         |                   |                |                           |                    | (A10) <b>(LRR K, L, MLRA 149B)</b><br>ie Redox (A16) <b>(LRR K, L, R)</b> |
| Black His     |                      |          | Loamy Muck       |         |                   |                |                           |                    |   |
| Hydroge       | n Sulfide (A4)       |          | Loamy Gleye      | -       |                   |                |                           |                    | y Peat or Peat (S3) <b>(LRR K, L, R)</b><br>te (S7) <b>(LRR K, L)</b>     |
| Stratified    | d Layers (A5)        |          | Depleted Ma      | trix (l | F3)               |                |                           |                    |   |
| Depleted      | d Below Dark Surfa   | ce (A11  | ) Redox Dark S   | Surfa   | ce (F6)           |                |                           |                    | lelow Surface (S8) (LRR K, L)<br>Surface (S9) (LRR K, L)                  |
| Thick Da      | rk Surface (A12)     |          | Depleted Da      | rk Su   | rface (F7)        | )              |                           |                    | nese Masses (F12) (LRR K, L, R)   |
| Sandy M       | lucky Mineral (S1)   |          | Redox Depre      | essior  | ns (F8)           |                |                           |                    | Floodplain Soils (F19) <b>(MLRA 149B)</b>                                 |
| Sandy G       | leyed Matrix (S4)    |          |                  |         |                   |                |                           |                    | lic (TA6) (MLRA 144A, 145, 149B)  |
| Sandy R       | edox (S5)            |          |                  |         |                   |                |                           | Red Parent         |   |
| Stripped      | Matrix (S6)          |          |                  |         |                   |                |                           |                    | w Dark Surface (TF12)   |
| Dark Su       | rface (S7) (LRR R, M | LRA 14   | 9B)              |         |                   |                |                           |                    | ain in Remarks)   |
|               |                      |          |                  |         |                   |                |                           | •                  |   |
| -             | of hydrophytic vege  | etation  | and wetland hyd  | rolog   | y must b          | e preser       | nt, unless disturb        | ed or problematic  |   |
| Restrictive L | ayer (if observed):  |          |                  |         |                   |                |                           |                    |   |
|               | Type:                |          | None             |         |                   | Hydric         | Soil Present?             |                    | Yes No  |
|               | Depth (inches):      |          |                  |         |                   |                |                           |                    |   |
| Remarks:      |                      |          |                  |         |                   |                |                           |                    |   |
|               |                      |          |                  |         |                   |                |                           |                    |   |
|               |                      |          |                  |         |                   |                |                           |                    |   |
|               |                      |          |                  |         |                   |                |                           |                    |   |
|               |                      |          |                  |         |                   |                |                           |                    |   |
|               |                      |          |                  |         |                   |                |                           |                    |   |
|               |                      |          |                  |         |                   |                |                           |                    |   |
|               |                      |          |                  |         |                   |                |                           |                    |   |
|               |                      |          |                  |         |                   |                |                           |                    |   |
|               |                      |          |                  |         |                   |                |                           |                    |   |
|               |                      |          |                  |         |                   |                |                           |                    |   |
|               |                      |          |                  |         |                   |                |                           |                    |   |
|               |                      |          |                  |         |                   |                |                           |                    |   |
|               |                      |          |                  |         |                   |                |                           |                    |   |
|               |                      |          |                  |         |                   |                |                           |                    |   |
|               |                      |          |                  |         |                   |                |                           |                    |   |
|               |                      |          |                  |         |                   |                |                           |                    |   |
| ]             |                      |          |                  |         |                   |                |                           |                    |   |
|               |                      |          |                  |         |                   |                |                           |                    |   |
| ]             |                      |          |                  |         |                   |                |                           |                    |   |
|               |                      |          |                  |         |                   |                |                           |                    |   |



Photo of Sample Plot North



Photo of Sample Plot West



| Project/Site: Flat Creek Solar Pro                                       | ject                 | City/County: Spra                          | akers, Montgomery County     | <u>′</u> Sa            | ampling Date: 2021   | 1-Sept-09         |
|--|----------------------|--|------------------------------|------------------------|----------------------|-------------------|
| Applicant/Owner: SunEast   |                      |  | State: NY                    | Sam                    | pling Point: W-NSI   | D-11_UPL-1        |
| Investigator(s): Nick DeJohn, Br   | ian Corrigan         |  | Section, Township,           | Range: NA              |                      |                   |
| Landform (hillslope, terrace, etc.):                                     | : Flat               |  | Local relief (concave, conv  | /ex, none): Und        | dulating             | Slope (%): 0 to 1 |
| Subregion (LRR or MLRA): LI  | RR L                 |  | Lat: 42.865175656            | 1 Long: -74.           | 4802574348           | Datum: WGS84      |
| Soil Map Unit Name: Water  |                      |  |                              |                        | NWI classification   | <u> </u>          |
| Are climatic/hydrologic conditions                                       | s on the site typica | l for this time of ye                      |                              |                        | plain in Remarks.)   |                   |
| Are Vegetation, Soil,  |                      | significantly di                           |                              | al Circumstance        | •                    | es No _ <b>_</b>  |
| Are Vegetation, Soil,  | or Hydrology _       | naturally prob                             | lematic? (If needed,         | explain any ans        | swers in Remarks.)   |                   |
| SUMMARY OF FINDINGS – A  | •                    | <u> </u>                                   | ng point locations, tra      | nsects, impor          | rtant features, e    | tc.               |
| Hydrophytic Vegetation Present?  |                      | No _ <b>_</b> /_                           | <br>                         |                        |                      |                   |
| Hydric Soil Present?   | Yes _                | No <u>_</u>                                | Is the Sampled Area with     | in a Wetland?          | Yes _                | No⁄_              |
| Wetland Hydrology Present?   | Yes _                | No _ <b>_</b> _                            | If yes, optional Wetland S   | ite ID:                |                      |                   |
|  |                      |  |                              |                        |                      |                   |
| HYDROLOGY  Wetland Hydrology Indicators:  Primary Indicators (minimum of | ·                    |  |                              | -                      | licators (minimum o  | of two required)  |
| Surface Water (A1)   |                      | _ Water-Stained Lea                        |                              |                        | Patterns (B10)       |                   |
| High Water Table (A2)<br>Saturation (A3)                                 |                      | _ Aquatic Fauna (B1<br>_ Marl Deposits (B1 |                              | Moss Trim              | Lines (B16)          |                   |
| Saturation (AS)<br>Water Marks (B1)                                      |                      | _ Mari Deposits (B1<br>_ Hydrogen Sulfide  |                              | Dry-Seasor             | n Water Table (C2)   |                   |
| Sediment Deposits (B2)   |                      |  | neres on Living Roots (C3)   | Crayfish Bu            |                      |                   |
| Drift Deposits (B3)  |                      | Presence of Redu                           | _                            |                        | Visible on Aerial Im | -                 |
| Algal Mat or Crust (B4)  |                      | Recent Iron Redu                           | ction in Tilled Soils (C6)   |                        | Stressed Plants (D   | 1)                |
| Iron Deposits (B5)   | _                    | Thin Muck Surface                          |                              | Geomorph<br>Shallow Aq | nic Position (D2)    |                   |
| Inundation Visible on Aerial I   |                      | Other (Explain in l                        | Remarks)                     |                        | graphic Relief (D4)  |                   |
| Sparsely Vegetated Concave   | Surface (B8)         |  |                              | FAC-Neutra             |                      |                   |
| Field Observations:  |                      |  |                              |                        |                      |                   |
| Surface Water Present?   | Yes No               | ✓ Depth                                    | (inches):                    |                        |                      |                   |
| Water Table Present?   | Yes No               | ✓ Depth                                    | (inches):                    | -<br>Wetland Hydro     | ology Present?       | Yes No <b>_</b> ✓ |
| Saturation Present?  | <br>Yes No           |  | (inches):                    | -                      | <b></b>              | ·                 |
| (includes capillary fringe)  | 163 140 _            | <u>у</u> Берин                             |                              | -                      |                      |                   |
| Describe Recorded Data (stream   | gauge monitoring     | well perial photo                          | s provious inspections) if   | available:             |                      |                   |
|  | gauge, monitoring    | g well, aeriai prioto                      | s, previous inspections), ii | avallable.             |                      |                   |
| Remarks:   |                      |  |                              |                        |                      |                   |
|  |                      |  |                              |                        |                      |                   |
|  |                      |  |                              |                        |                      |                   |
|  |                      |  |                              |                        |                      |                   |
|  |                      |  |                              |                        |                      |                   |
|  |                      |  |                              |                        |                      |                   |
|  |                      |  |                              |                        |                      |                   |

|   |             |                      |                     | _                                       |                 |              |               |
|---|-------------|----------------------|---------------------|---|-----------------|--------------|---------------|
| <u>Tree Stratum</u> (Plot size: <u>30 ft</u> )      |             | Dominant<br>Species? | Indicator<br>Status | Dominance Test works Number of Dominant |                 |              |               |
| 1.  |             |                      |                     | Are OBL, FACW, or FAC                   |                 | 1            | (A)           |
| 2.  |             |                      |                     | Total Number of Domi                    |                 |              |               |
|   |             |                      |                     | Across All Strata:                      | '               | 4            | (B)           |
| 3   |             |                      |                     | Percent of Dominant S                   | pecies That     |              |               |
| 4   |             |                      |                     | Are OBL, FACW, or FAC                   | •               | 25           | (A/B)         |
| 5   |             |                      |                     | Prevalence Index work                   | sheet:          |              |               |
| 6   |             |                      |                     | Total % Cover                           |                 | Multiply     | Bv:           |
| 7   |             |                      |                     | OBL species                             | 0               | x 1 =        | 0             |
|   | 0           | = Total Cove         | er                  | FACW species                            | 30              | x 2 =        | 60            |
| Sapling/Shrub Stratum (Plot size: 15 ft )           |             |                      |                     | FAC species                             | 0               | x 3 =        | 0             |
| 1.  |             |                      |                     | FACU species                            | 65              | x 4 =        | 260           |
| 2.  |             | ·                    |                     | · ·                                     |                 | -            |               |
| 3.  |             |                      |                     | UPL species                             | 0               | x 5 = _      | 0             |
| 4.  |             |                      |                     | Column Totals                           | 95              | (A) _        | 320 (B)       |
| 5.  |             |                      |                     | Prevalence II                           | ndex = B/A =    | 3.4          |               |
| 6.  |             | <del></del>          |                     | Hydrophytic Vegetatio                   | n Indicators:   |              |               |
| ·   |             |                      |                     | 1- Rapid Test for                       | Hydrophytic V   | egetation/   | ı             |
| 7   |             |                      |                     | 2 - Dominance Te                        | st is > 50%     |              |               |
|   | 0           | = Total Cove         | er                  | 3 - Prevalence Inc                      | dex is ≤ 3.0¹   |              |               |
| <u>Herb Stratum</u> (Plot size: <u>5 ft</u> )       |             |                      |                     | 4 - Morphologica                        |                 | ¹ (Provide   | supporting    |
| 1. Solidago canadensis                              | 20          | Yes                  | FACU                | data in Remarks or on                   | •               |              |               |
| 2. <i>Phalaris arundinacea</i>                      | 20          | Yes                  | FACW                | Problematic Hydi                        | •               |              | (plain)       |
| 3. Trifolium pratense                               | 15          | Yes                  | FACU                | ¹Indicators of hydric so                |                 |              | •             |
| 4. Lotus tenuis                                     | 15          | Yes                  | FACU                | present, unless disturb                 |                 | -            | gy mast be    |
| 5. Heracleum maximum                                | 10          | No                   | FACW                | Definitions of Vegetation               |                 |              |               |
| 6. Cichorium intybus                                | 10          | No                   | FACU                | Tree – Woody plants 3                   |                 | r moro in    | diameter at   |
| 7. Ambrosia artemisiifolia                          |             | No                   | FACU                | breast height (DBH), re                 |                 |              | ularrieter at |
| · ·   |             | 110                  | FACO                | Sapling/shrub - Woody                   | -               | -            | OPU and       |
| 8   |             |                      |                     | greater than or equal t                 |                 |              | DDIT allu     |
| 9   |             |                      |                     | Herb – All herbaceous                   |                 |              | gardless of   |
| 10  |             |                      |                     | size, and woody plants                  | -               |              | gai diess oi  |
| 11  |             |                      |                     | Woody vines – All woo                   |                 |              | 20 ft in      |
| 12  |             |                      |                     | height.                                 | uy viries great | ter triair 3 | .20 11 111    |
|   | 95          | = Total Cove         | er                  |   |                 |              |               |
| Woody Vine Stratum (Plot size: 30 ft )              |             |                      |                     | Hydrophytic Vegetation                  | on Present? \   | es ۱         | 10 <u>~</u>   |
| 1.  |             |                      |                     |   |                 |              |               |
| 2.  |             |                      |                     |   |                 |              |               |
| 3.  |             |                      |                     |   |                 |              |               |
| 4.  |             | <del></del>          |                     |   |                 |              |               |
|   |             | = Total Cove         | or                  |   |                 |              |               |
|   |             | _ TOTAL COVE         | C1                  |   |                 |              |               |
| Remarks: (Include photo numbers here or on a separa | ate sheet.) |                      |                     |   |                 |              |               |
|   |             |                      |                     |   |                 |              |               |
|   |             |                      |                     |   |                 |              |               |
|   |             |                      |                     |   |                 |              |               |
|   |             |                      |                     |   |                 |              |               |
|   |             |                      |                     |   |                 |              |               |
|   |             |                      |                     |   |                 |              |               |
|   |             |                      |                     |   |                 |              |               |
|   |             |                      |                     |   |                 |              |               |

| Profile Des  | cription: (Describe          | to the de | pth needed to do | cun    | nent the i        | ndicato          | or confirm the            | absence of indicator  | s.)   |
|--------------|------------------------------|-----------|------------------|--------|-------------------|------------------|---------------------------|-----------------------|---|
| Depth        | Matrix                       |           | Redox            | Feat   | tures             |                  |                           |                       |   |
| (inches)     | Color (moist)                | %         | Color (moist)    | %      | Type <sup>1</sup> | Loc <sup>2</sup> | Tex                       | xture                 | Remarks   |
| 0 - 18       | 10YR 3/3                     | 100       | _                |        |                   |                  | Silty Cl                  | lay Loam              | _   |
|              |                              |           |                  |        |                   |                  |                           |                       |   |
|              | •                            |           | _                | _      |                   |                  |                           |                       |   |
|              |                              |           |                  | _      |                   |                  |                           |                       | _   |
|              |                              |           |                  | _      |                   |                  |                           |                       |   |
|              |                              |           |                  | _      |                   |                  |                           |                       |   |
|              |                              |           |                  | _      |                   |                  |                           |                       |   |
|              |                              |           |                  | _      |                   |                  |                           |                       |   |
|              |                              |           |                  | _      |                   |                  |                           |                       |   |
|              |                              |           |                  | _      |                   |                  |                           |                       |   |
|              |                              |           |                  | _      |                   |                  |                           |                       |   |
|              |                              |           |                  |        |                   |                  |                           |                       |   |
|              |                              |           |                  |        |                   |                  |                           |                       |   |
| ¹Type: C = 0 | oncentration, D =            | Depletio  | n, RM = Reduced  | Mati   | rix, MS =         | Masked           | Sand Grains. <sup>2</sup> | Location: PL = Pore l | _ining, M = Matrix.   |
| Hydric Soil  | Indicators:                  |           |                  |        |                   |                  |                           | Indicators for Pro    | oblematic Hydric Soils <sup>3</sup> :   |
| Histoso      |                              |           | Polyvalue Bel    | ow S   | urface (S         | 8) <b>(LRR</b>   | R, MLRA 149B)             | 2 cm Muck (A          | 10) <b>(LRR K, L, MLRA 149B)</b>  |
|              | oipedon (A2)                 |           | Thin Dark Sur    |        |                   |                  |                           |                       |   |
| Black H      | •                            |           | <br>Loamy Mucky  |        |                   |                  |                           | <del></del>           | Redox (A16) (LRR K, L, R)   |
|              | en Sulfide (A4)              |           | Loamy Gleyed     |        |                   |                  |                           |                       | reat or Peat (S3) (LRR K, L, R)   |
| Stratifie    | d Layers (A5)                |           | Depleted Mat     | rix (F | <del>-</del> 3)   |                  |                           | Dark Surface          | ow Surface (S8) <b>(LRR K, L)</b>   |
| Deplete      | d Below Dark Surfa           | ace (A11) | Redox Dark S     | urfa   | ce (F6)           |                  |                           | •                     |   |
| Thick Da     | ark Surface (A12)            |           | Depleted Dar     | k Sui  | rface (F7)        |                  |                           |                       | face (S9) (LRR K, L)  |
| Sandy N      | Mucky Mineral (S1)           |           | Redox Depres     | sior   | ıs (F8)           |                  |                           | •                     | ese Masses (F12) <b>(LRR K, L, R)</b><br>odplain Soils (F19) <b>(MLRA 149B)</b> |
| Sandy C      | Gleyed Matrix (S4)           |           |                  |        |                   |                  |                           | <del></del>           |   |
| Sandy F      | Redox (S5)                   |           |                  |        |                   |                  |                           | ·                     | (TA6) (MLRA 144A, 145, 149B)  |
| Strippe      | d Matrix (S6)                |           |                  |        |                   |                  |                           | Red Parent M          |   |
|              | ırface (S7) <b>(LRR R, N</b> | /LRA 149  | (B)              |        |                   |                  |                           | •                     | Dark Surface (TF12)   |
|              |                              |           |                  |        |                   |                  |                           | Other (Explain        | n in Remarks)   |
| -            |                              |           | ind wetland hydr | olog   | y must be         | e preser         | t, unless disturb         | ed or problematic.    |   |
| Restrictive  | Layer (if observed):         |           |                  |        |                   |                  |                           |                       |   |
|              | Type:                        |           | None             |        |                   | Hydric           | Soil Present?             | ,                     | Yes No⁄_  |
|              | Depth (inches):              |           |                  |        |                   |                  |                           |                       |   |
| Remarks:     |                              | <u></u>   | _                |        |                   |                  |                           |                       |   |
|              |                              |           |                  |        |                   |                  |                           |                       |   |
|              |                              |           |                  |        |                   |                  |                           |                       |   |
|              |                              |           |                  |        |                   |                  |                           |                       |   |
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|              |                              |           |                  |        |                   |                  |                           |                       |   |
|              |                              |           |                  |        |                   |                  |                           |                       |   |
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|              |                              |           |                  |        |                   |                  |                           |                       |   |
|              |                              |           |                  |        |                   |                  |                           |                       |   |
|              |                              |           |                  |        |                   |                  |                           |                       |   |
|              |                              |           |                  |        |                   |                  |                           |                       |   |
|              |                              |           |                  |        |                   |                  |                           |                       |   |
|              |                              |           |                  |        |                   |                  |                           |                       |   |
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|              |                              |           |                  |        |                   |                  |                           |                       |   |
|              |                              |           |                  |        |                   |                  |                           |                       |   |
|              |                              |           |                  |        |                   |                  |                           |                       |   |
|              |                              |           |                  |        |                   |                  |                           |                       |   |
|              |                              |           |                  |        |                   |                  |                           |                       |   |
|              |                              |           |                  |        |                   |                  |                           |                       |   |
|              |                              |           |                  |        |                   |                  |                           |                       |   |



Photo of Sample Plot North



Photo of Sample Plot East



Photo of Sample Plot West



| Project/Site: Flat Creek Solar Pro       | ject                | City/County: Canajo       | harie, Montgomery Coι      | unty               | Sampling Date: 202      | 21-Sept-09        |
|--|---------------------|---------------------------|----------------------------|--------------------|-------------------------|-------------------|
| Applicant/Owner: SunEast                 |                     |                           | State: NY                  | <u> </u>           | Sampling Point: W-N     | SD-12_PEM-2       |
| Investigator(s): Nick DeJohn, B          | rian Corrigan       |                           | Section, Township,         | , Range: NA        | <u> </u>                |                   |
| Landform (hillslope, terrace, etc.)      | : Depression        | Lo                        | ocal relief (concave, conv | vex, none):_       | Concave                 | Slope (%): 0 to 1 |
| Subregion (LRR or MLRA): L               | RR L                |                           | Lat: 42.843005186          | 69 <b>Long:</b>    | -74.523253413           | Datum: WGS84      |
| Soil Map Unit Name: Illion silt          | loam, 3 to 8 percen | t slopes                  |                            |                    | NWI classificatio       | n:                |
| Are climatic/hydrologic condition        |                     | -                         |                            | o (If no,          | explain in Remarks.)    |                   |
| Are Vegetation, Soil,                    |                     | significantly distu       |                            |                    | · ·                     | Yes No            |
| Are Vegetation, Soil,                    | or Hydrology _      | naturally problen         | natic? (If needed,         | , explain any      | answers in Remarks      | .)                |
|  |                     |                           |                            |                    |                         |                   |
| SUMMARY OF FINDINGS – A                  | ttach site map s    | showing sampling          | point locations, tra       | nsects, im         | portant features,       | etc.              |
| Hydrophytic Vegetation Present           | ? Yes               | ✓_ No                     |                            |                    |                         |                   |
| Hydric Soil Present?                     |                     | j                         | the Sampled Area with      | in a Wetland       | l? Yes                  | No                |
| Wetland Hydrology Present?               |                     | i                         | yes, optional Wetland S    |                    |                         | ISD-12            |
|  |                     |                           | yes, optional wetiand 3    | oile iD.           | VV-1V                   | 13D-12            |
| Remarks: (Explain alternative pro        | ocedures here or in | a separate report)        |                            |                    |                         |                   |
| Covertype is PEM.                        |                     |                           |                            |                    |                         |                   |
| I  |                     |                           |                            |                    |                         |                   |
|  |                     |                           |                            |                    |                         |                   |
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|  |                     |                           |                            |                    |                         |                   |
| HYDROLOGY                                |                     |                           |                            |                    |                         |                   |
|  |                     |                           |                            |                    |                         |                   |
| Wetland Hydrology Indicators:            |                     |                           |                            |                    |                         |                   |
|  | :                   | المراجعة معطة المراجعة    |                            | Casandan.          | In dianta un (mainima   | - <b>f</b> +      |
| Primary Indicators (minimum of           | one is required; ch | eck all that apply)       |                            | Secondary          | Indicators (minimum     | of two required)  |
| Surface Water (A1)                       |                     | Water-Stained Leave       | nc (RO)                    | Surface            | Soil Cracks (B6)        |                   |
| Surface Water (A1) High Water Table (A2) |                     | Aquatic Fauna (B13)       |                            | Drainag            | ge Patterns (B10)       |                   |
| ✓ Saturation (A3)                        |                     | Marl Deposits (B15)       |                            | Moss Tr            | rim Lines (B16)         |                   |
| Water Marks (B1)                         |                     | Hydrogen Sulfide O        | dor (C1)                   | Dry-Sea            | ason Water Table (C2)   |                   |
|  |                     |                           |                            | Crayfish           | n Burrows (C8)          |                   |
| Sediment Deposits (B2)                   |                     | ·                         | res on Living Roots (C3)   | _ <b>∠</b> Saturat | ion Visible on Aerial I | magery (C9)       |
| Drift Deposits (B3)                      |                     | Presence of Reduce        |                            | Stunted            | d or Stressed Plants ([ | 01)               |
| Algal Mat or Crust (B4)                  |                     |                           | on in Tilled Soils (C6)    | ✓ Geomo            | rphic Position (D2)     |                   |
| Iron Deposits (B5)                       |                     | Thin Muck Surface (       |                            |                    | Aquitard (D3)           |                   |
| Inundation Visible on Aerial I           | magery (B7)         | Other (Explain in Re      | marks)                     |                    | ppographic Relief (D4)  |                   |
| Sparsely Vegetated Concave               | Surface (B8)        |                           |                            |                    | utral Test (D5)         |                   |
| Field Observations                       |                     |                           |                            | _ <u>√</u> FAC-Ne  | utrai iest (D5)         |                   |
| Field Observations:                      |                     |                           |                            |                    |                         |                   |
| Surface Water Present?                   | Yes No              |                           |                            | _                  |                         |                   |
| Water Table Present?                     | Yes 🔽 No            | Depth (ir                 | nches): 2                  | Wetland H          | ydrology Present?       | Yes No            |
| Saturation Present?                      | Yes 🟒 No            | Depth (ir                 | nches): 0                  |                    |                         |                   |
| (includes capillary fringe)              |                     |                           |                            |                    |                         |                   |
|  | anuan manitarina    | uuall aarial ahataa i     | araujaus inspastions) if   | available:         |                         | •                 |
| Describe Recorded Data (stream           | i gauge, monitoring | , weii, aeriai priotos, į | previous irispections), ii | avaliable.         |                         |                   |
|  |                     |                           |                            |                    |                         |                   |
|  |                     |                           |                            |                    |                         |                   |
|  |                     |                           |                            |                    |                         |                   |
| Remarks:                                 |                     |                           |                            |                    |                         |                   |
|  |                     |                           |                            |                    |                         |                   |
|  |                     |                           |                            |                    |                         |                   |
|  |                     |                           |                            |                    |                         |                   |
|  |                     |                           |                            |                    |                         |                   |
|  |                     |                           |                            |                    |                         |                   |
|  |                     |                           |                            |                    |                         |                   |
|  |                     |                           |                            |                    |                         |                   |
|  |                     |                           |                            |                    |                         |                   |
|  |                     |                           |                            |                    |                         |                   |

| <u>Tree Stratum</u> (Plot size: <u>30 ft</u> ) |          | Dominant<br>Species? | Indicator<br>Status | Dominance Test works Number of Dominant |                 |              |                   |
|--|----------|----------------------|---------------------|---|-----------------|--------------|-------------------|
| 1.   |          |                      |                     | Are OBL, FACW, or FAC                   | •               | 1            | (A)               |
| -  |          |                      |                     | Total Number of Dom                     |                 |              | <del></del>       |
| 2.   |          |                      |                     | Across All Strata:                      | •               | 1            | (B)               |
| 3  |          |                      |                     | Percent of Dominant                     | Species That    |              |                   |
| 4  |          |                      |                     | Are OBL, FACW, or FAC                   | •               | 100          | (A/B)             |
| 5  |          |                      |                     | Prevalence Index worl                   | ksheet:         |              |                   |
| 6  |          |                      |                     | Total % Cove                            |                 | Multiply     | Bv:               |
| 7  |          |                      |                     | OBL species                             | 17              | x 1 =        | <del></del><br>17 |
|  | 0        | = Total Cove         | er                  | FACW species                            | 70              | x 2 =        | 140               |
| Sapling/Shrub Stratum (Plot size: 15 ft )      |          |                      |                     | FAC species                             | 7               | x3=          | 21                |
| 1.   |          |                      |                     | · ·                                     |                 | _            |                   |
| 2.   |          |                      |                     | FACU species                            | 0               | x 4 =        | 0                 |
| 3.   |          |                      |                     | UPL species                             | 0               | x 5 = _      | 0                 |
| 4.   |          |                      |                     | Column Totals                           | 94              | (A)          | 178 (B)           |
| 5.   |          |                      |                     | Prevalence I                            | ndex = B/A =    | 1.9          |                   |
| -  |          |                      |                     | Hydrophytic Vegetatio                   | n Indicators:   |              |                   |
| 6.   |          |                      |                     | ✓ 1- Rapid Test for                     | Hydrophytic V   | egetation    |                   |
| 7  |          |                      |                     | 2 - Dominance Te                        |                 | Ü            |                   |
|  | 0        | = Total Cove         | er                  | ✓ 3 - Prevalence In                     |                 |              |                   |
| <u>Herb Stratum</u> (Plot size: <u>5 ft</u> )  |          |                      |                     | 4 - Morphologica                        |                 | (Provide     | sunnorting        |
| 1. <i>Phalaris arundinacea</i>                 | 70       | Yes                  | FACW                | data in Remarks or on                   | •               |              | supporting        |
| 2. Scirpus atrovirens                          | 12       | No                   | OBL                 | Problematic Hyd                         | •               | •            | nlain)            |
| 3. Euthamia graminifolia                       | <u> </u> | No                   | FAC                 | Indicators of hydric s                  |                 |              | •                 |
| 4. Typha angustifolia                          |          | No                   | OBL                 | present, unless distur                  |                 | -            | gy must be        |
| 5.   |          |                      |                     | · · · · · · · · · · · · · · · · · · ·   |                 | Hatic        |                   |
| 6.   |          |                      |                     | Definitions of Vegetati                 |                 |              |                   |
| <del></del>                                    |          |                      |                     | Tree – Woody plants 3                   |                 |              | diameter at       |
| 7  |          |                      |                     | breast height (DBH), r                  |                 |              |                   |
| 8  |          |                      |                     | Sapling/shrub - Wood                    |                 |              | OBH and           |
| 9  |          |                      |                     | greater than or equal                   |                 |              |                   |
| 10   |          |                      |                     | Herb – All herbaceous                   | -               |              | gardless of       |
| 11   |          |                      |                     | size, and woody plant                   |                 |              |                   |
| 12.  |          |                      |                     | Woody vines – All woo                   | ody vines great | ter than 3.  | 28 ft in          |
|  | 94       | = Total Cove         | er                  | height.                                 |                 |              |                   |
| Woody Vine Stratum (Plot size: 30 ft )         |          | -                    |                     | Hydrophytic Vegetati                    | on Present? \   | ∕es <u> </u> | lo                |
| 1.   |          |                      |                     |   |                 |              |                   |
| 2  |          |                      |                     | •                                       |                 |              |                   |
| 3.   |          | <del></del>          |                     | •                                       |                 |              |                   |
|  |          | <del></del>          |                     | •                                       |                 |              |                   |
|  |          |                      |                     | I                                       |                 |              |                   |
| 4.   |          | = Total Cove         |                     | •                                       |                 |              |                   |

| Profile Desc | cription: (Describe t      | to the  | depth needed to d      | docun   | nent the i        | ndicato        | r or confirm the   | absence of i | ndicators.)                                |
|--------------|----------------------------|---------|------------------------|---------|-------------------|----------------|--------------------|--------------|--|
| Depth        | Matrix                     |         | Redox                  | Feat    | ures              |                |                    |              |  |
| (inches)     | Color (moist)              | %       | Color (moist)          | %       | Type <sup>1</sup> | Loc2           | Texture            | e            | Remarks                                    |
| 0 - 20       | 10YR 3/1                   | 90      | 5YR 4/6                | 10      | C                 | M              | Clay Loa           | am           |  |
|              |                            |         |                        |         |                   |                |                    |              |  |
|              |                            |         |                        | _       |                   |                |                    |              |  |
|              |                            | _       |                        | _       |                   |                |                    |              |  |
|              |                            | -       |                        |         |                   |                |                    |              |  |
|              |                            |         |                        |         |                   |                |                    |              |  |
|              |                            |         |                        |         |                   |                |                    |              |  |
|              |                            | . —     |                        |         |                   |                |                    |              |  |
|              |                            | - —     |                        |         |                   |                |                    |              |  |
|              |                            |         |                        |         |                   |                |                    |              |  |
|              |                            |         |                        |         |                   |                |                    |              |  |
|              |                            |         |                        |         |                   |                |                    |              |  |
|              |                            |         |                        |         |                   |                |                    |              |  |
| ¹Type: C = C | Concentration, D = [       | Deplet  | ion, RM = Reduce       | d Mat   | rix, MS =         | Masked         | Sand Grains. 2     | Location: PL | . = Pore Lining, M = Matrix.               |
| Hydric Soil  | Indicators:                |         |                        |         |                   |                |                    | Indicator    | rs for Problematic Hydric Soils³:          |
| Histosol     |                            |         | Polyvalue Be           | elow S  | Surface (S        | 8) <b>(LRR</b> | R, MLRA 149B)      |              | Muck (A10) <b>(LRR K, L, MLRA 149B)</b>    |
| I            | oipedon (A2)               |         | Thin Dark Su           |         |                   |                |                    |              | t Prairie Redox (A16) <b>(LRR K, L, R)</b> |
| Black Hi     | •                          |         | Loamy Muck             |         |                   |                |                    |              | Mucky Peat or Peat (S3) (LRR K, L, R)      |
| Hydroge      | en Sulfide (A4)            |         | Loamy Gleye            | ed Ma   | trix (F2)         |                |                    |              | Surface (S7) <b>(LRR K, L)</b>             |
| Stratifie    | d Layers (A5)              |         | Depleted Ma            | atrix ( | F3)               |                |                    |              | value Below Surface (S8) (LRR K, L)        |
| Deplete      | d Below Dark Surfa         | ice (A1 | 1) <u>✓</u> Redox Dark | Surfa   | ce (F6)           |                |                    |              | Dark Surface (S9) <b>(LRR K, L)</b>        |
|              | ark Surface (A12)          |         | Depleted Da            | rk Su   | rface (F7)        | )              |                    |              | Manganese Masses (F12) (LRR K, L, R)       |
| Sandy M      | lucky Mineral (S1)         |         | Redox Depre            | essior  | ns (F8)           |                |                    |              | nont Floodplain Soils (F19) (MLRA 149B)    |
| Sandy G      | Gleyed Matrix (S4)         |         |                        |         |                   |                |                    |              | Spodic (TA6) (MLRA 144A, 145, 149B)        |
| Sandy R      | ledox (S5)                 |         |                        |         |                   |                |                    |              | Parent Material (F21)                      |
| Stripped     | d Matrix (S6)              |         |                        |         |                   |                |                    |              | Shallow Dark Surface (TF12)                |
| Dark Su      | rface (S7) (LRR R, M       | ILRA 1  | 49B)                   |         |                   |                |                    | -            | r (Explain in Remarks)                     |
| 21           | - 6 lea el este de la com- |         |                        |         |                   |                |                    |              | •  |
| -            | of hydrophytic vege        |         | and wetland hyd        | rolog   | y must be         | e preser       | it, unless disturb | ed or proble | ematic.                                    |
|              | Layer (if observed):       |         |                        |         |                   | l              |                    |              |  |
|              | Type:                      |         | None                   |         |                   | Hydric         | Soil Present?      |              | Yes No                                     |
|              | Depth (inches):            |         |                        |         |                   |                |                    |              |  |
| Remarks:     |                            |         |                        |         |                   |                |                    |              |  |
|              |                            |         |                        |         |                   |                |                    |              |  |
|              |                            |         |                        |         |                   |                |                    |              |  |
|              |                            |         |                        |         |                   |                |                    |              |  |
|              |                            |         |                        |         |                   |                |                    |              |  |
|              |                            |         |                        |         |                   |                |                    |              |  |
|              |                            |         |                        |         |                   |                |                    |              |  |
|              |                            |         |                        |         |                   |                |                    |              |  |
|              |                            |         |                        |         |                   |                |                    |              |  |
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|              |                            |         |                        |         |                   |                |                    |              |  |
|              |                            |         |                        |         |                   |                |                    |              |  |
|              |                            |         |                        |         |                   |                |                    |              |  |
|              |                            |         |                        |         |                   |                |                    |              |  |
|              |                            |         |                        |         |                   |                |                    |              |  |
|              |                            |         |                        |         |                   |                |                    |              |  |
|              |                            |         |                        |         |                   |                |                    |              |  |



Photo of Sample Plot East



Photo of Sample Plot South



Photo of Sample Plot West



| Project/Site: Flat Creek Solar Pr  | oject                   | City/County: Cana   | ajoharie, Montgomery Cou  | unty Sampling D  | Date: 2021-Sept-09                                       |
|--|-------------------------|---|---|--|--|
| Applicant/Owner: SunEast   |                         |   | State: NY   | Sampling Poi   | int: W-NSD-12_PSS-1                                      |
| Investigator(s): Nick DeJohn, E  | Brian Corrigan          |   | Section, Township   | , Range: NA  |  |
| Landform (hillslope, terrace, etc  | ): Depression           |   | Local relief (concave, con  | vex, none): Concave  | Slope (%): 0 to 1  |
| Subregion (LRR or MLRA):   | LRR L                   |   | Lat: 42.842503488   | 31 <b>Long:</b> -74.5237864  | 182 <b>Datum:</b> WGS84                                  |
| Soil Map Unit Name: Illion sil   | t loam, 3 to 8 percer   | nt slopes   |   | NWI cla  | ssification:   |
| Are climatic/hydrologic condition  | ns on the site typica   | l for this time of yea  | ar? Yes 🟒 No  | o (If no, explain in R   | emarks.)   |
| Are Vegetation, Soil,  | or Hydrology _          | significantly dis   | sturbed? Are "Norm  | nal Circumstances" prese   | ent? Yes 🟒 No  |
| Are Vegetation, Soil,  | or Hydrology _          | naturally probl   | ematic? (If needed  | , explain any answers in   | Remarks.)  |
| Hydrophytic Vegetation Presen<br>Hydric Soil Present?<br>Wetland Hydrology Present?<br>Remarks: (Explain alternative p<br>Covertype is PSS.  | Yes _<br>Yes _<br>Yes _ | ✓ No<br>✓ No<br>✓ No  | Is the Sampled Area with  | in a Wetland?  | Yes No<br>W-NSD-12                                       |
| HYDROLOGY  Wetland Hydrology Indicators:  Primary Indicators (minimum of the control of the cont | <u>-</u><br>-           | _Water-Stained Lea<br>_Aquatic Fauna (B1<br>_Marl Deposits (B15 | 3)<br>5)  | Secondary Indicators (r<br>Surface Soil Cracks<br>Drainage Patterns (B1)<br>Moss Trim Lines (B1)<br>Dry-Season Water 1 | B10)<br>16)  |
| <ul> <li>Water Marks (B1)</li> <li>Sediment Deposits (B2)</li> <li>Drift Deposits (B3)</li> <li>Algal Mat or Crust (B4)</li> <li>Iron Deposits (B5)</li> <li>Inundation Visible on Aerial</li> <li>Sparsely Vegetated Concave</li> </ul>   |                         | Presence of Reduc   | eres on Living Roots (C3)<br>ced Iron (C4)<br>tion in Tilled Soils (C6)<br>c (C7) | Crayfish Burrows (C Saturation Visible o Stunted or Stressec Geomorphic Positic Shallow Aquitard (D Microtopographic R | n Aerial Imagery (C9)<br>d Plants (D1)<br>on (D2)<br>D3) |
| sparsely vegetated colleave  | = Juliace (DO)          |   |   | <u>✓</u> FAC-Neutral Test (D   | 5)   |
| Field Observations:  |                         |   |   |  |  |
| Surface Water Present?   | Yes No _ <b>_</b>       | ∠ Depth   | (inches):   | _  |  |
| Water Table Present?   | Yes No                  | Depth   | (inches): 8   | Wetland Hydrology Pre  | esent? Yes No  |
| Saturation Present?  | Yes 🟒 No _              | Depth   | (inches): 3   |  |  |
| (includes capillary fringe)  |                         |   |   | _  |  |
| Describe Recorded Data (stream   | <br>m gauge, monitorinį | g well, aerial photos   | s, previous inspections), if  | available:   |  |
|  |                         |   |   |  |  |
| Remarks:   |                         |   |   |  |  |
| Kemarks.   |                         |   |   |  |  |
|  |                         |   |   |  |  |
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|  |                         |   |   |  |  |

| <u>Tree Stratum</u> (Plot size: <u>30 ft</u> )      |              | Dominant<br>Species? | Indicator<br>Status | Dominance Test works Number of Dominant S |                 | 4           | (4)         |
|---|--------------|----------------------|---------------------|---|-----------------|-------------|-------------|
| 1.  |              |                      |                     | Are OBL, FACW, or FAC                     | •               | 4           | (A)         |
| 2.  |              |                      |                     | Total Number of Domi                      | nant Species    |             |             |
|   |              |                      |                     | Across All Strata:                        | '               | 4           | (B)         |
| 3.  |              |                      |                     | Percent of Dominant S                     | pecies That     |             |             |
| 4   |              |                      |                     | Are OBL, FACW, or FAC                     | •               | 100         | (A/B)       |
| 5   |              |                      |                     | Prevalence Index work                     |                 |             |             |
| 6.  |              |                      |                     | Total % Cover                             |                 | Multiply I  | Rv.         |
| 7   |              |                      |                     | OBL species                               | 0               | x 1 =       | 0           |
|   | 0            | = Total Cov          | er                  | FACW species                              | 125             | x 2 =       | 250         |
| Sapling/Shrub Stratum (Plot size:15 ft)             | ,            | <del>-</del>         |                     | <u> </u>                                  |                 | _           |             |
| 1. Cornus amomum                                    | 40           | Yes                  | FACW                | FAC species                               | 0               | x 3 =       | 0           |
| 2. Ulmus americana                                  | 10           | Yes                  | FACW                | FACU species                              | 0               | x 4 =       | 0           |
| 3.  |              |                      | 17.00               | UPL species                               | 0               | x 5 =       | 0           |
| -   |              |                      |                     | Column Totals                             | 125             | (A)         | 250 (B)     |
| 4   |              |                      |                     | Prevalence Ir                             | ndex = B/A =    | 2           | _           |
| 5   |              |                      |                     | Hydrophytic Vegetation                    | n Indicators:   |             |             |
| 6.  |              |                      |                     | 1- Rapid Test for I                       |                 | /ogotation  |             |
| 7   |              |                      |                     | ✓ 2 - Dominance Te                        |                 | regetation  |             |
|   | 50           | = Total Cov          | er                  | ✓ 3 - Prevalence Inc                      |                 |             |             |
| Herb Stratum (Plot size:5 ft)                       |              | <del>-</del>         |                     |   |                 |             |             |
| 1. Phalaris arundinacea                             | 60           | Yes                  | FACW                | 4 - Morphological                         | •               |             | supporting  |
| 2. Impatiens capensis                               | 15           | Yes                  | FACW                | data in Remarks or on                     |                 |             |             |
| 3.  |              |                      |                     | Problematic Hydr                          | . , .           | -           |             |
| ·   |              |                      |                     | <sup>1</sup> Indicators of hydric so      |                 |             | gy must be  |
| 4   |              |                      |                     | present, unless disturb                   | ed or proble    | matic       |             |
| 5   |              |                      |                     | Definitions of Vegetation                 |                 |             |             |
| 6.  |              |                      |                     | Tree – Woody plants 3                     | in. (7.6 cm) oı | r more in c | liameter at |
| 7   |              |                      |                     | breast height (DBH), re                   | gardless of h   | eight.      |             |
| 8.  |              |                      |                     | Sapling/shrub - Woody                     | / plants less t | han 3 in. D | BH and      |
| 9.  |              |                      |                     | greater than or equal t                   | o 3.28 ft (1 m  | ) tall.     |             |
| 10.   |              |                      |                     | Herb - All herbaceous                     | (non-woody)     | plants, reg | gardless of |
| 11  |              |                      |                     | size, and woody plants                    | less than 3.2   | 8 ft tall.  |             |
| 11<br>12.   |              |                      |                     | Woody vines - All wood                    | dy vines grea   | ter than 3. | 28 ft in    |
| 12.   | 75           | = Total Cov          |                     | height.                                   |                 |             |             |
| W 1 15 C + (D) + 1 20 C )                           |              | _ 10tal Cov          | er                  | Hydrophytic Vegetatio                     | n Present? \    | es ./ N     | 0           |
| Woody Vine Stratum (Plot size: 30 ft )              |              |                      |                     | , a op, a.e r agatatio                    |                 |             |             |
| 1   |              |                      |                     |   |                 |             |             |
| 2   |              |                      |                     |   |                 |             |             |
| 3   |              |                      |                     |   |                 |             |             |
| 4   |              |                      |                     |   |                 |             |             |
|   | 0            | = Total Cov          | er                  |   |                 |             |             |
| Demonstra (Include whete ware bear to a con-        | 40 also - 43 | -                    |                     |   |                 |             |             |
| Remarks: (Include photo numbers here or on a separa | te sneet.)   |                      |                     |   |                 |             |             |
|   |              |                      |                     |   |                 |             |             |
|   |              |                      |                     |   |                 |             |             |
|   |              |                      |                     |   |                 |             |             |
|   |              |                      |                     |   |                 |             |             |
|   |              |                      |                     |   |                 |             |             |
|   |              |                      |                     |   |                 |             |             |
|   |              |                      |                     |   |                 |             |             |
|   |              |                      |                     |   |                 |             |             |

| Profile Des   | cription: (Describe t        | o the d  | epth needed to d | ocun    | nent the          | indicato         | r or confirm the          | absence of indicate | ors.)   |
|---------------|------------------------------|----------|------------------|---------|-------------------|------------------|---------------------------|---------------------|---|
| Depth         | Matrix                       |          | Redox            | Feat    | ures              |                  |                           |                     |   |
| (inches)      | Color (moist)                | %        | Color (moist)    | %       | Type <sup>1</sup> | Loc <sup>2</sup> | Tex                       | ture                | Remarks   |
| 0 - 20        | 10YR 3/2                     | 95       | 7.5YR 4/6        | 5       | С                 | M                | Silty Cla                 | ay Loam             |   |
|               |                              |          |                  | _       |                   |                  |                           |                     |   |
|               |                              | _        |                  | _       |                   |                  |                           |                     |   |
|               |                              | _        |                  | _       |                   |                  |                           |                     |   |
|               |                              | _        |                  | _       |                   |                  | -                         |                     |   |
|               |                              | · —      |                  | · —     |                   |                  |                           |                     |   |
|               |                              | . —      |                  | -       |                   |                  | -                         |                     |   |
|               |                              | · — ·    |                  | · —     |                   |                  |                           |                     |   |
|               |                              |          |                  |         |                   |                  |                           |                     |   |
|               |                              |          |                  |         |                   |                  |                           |                     |   |
|               | _                            |          |                  |         |                   |                  |                           |                     |   |
|               |                              |          |                  |         |                   |                  |                           |                     |   |
|               |                              |          |                  |         |                   |                  |                           |                     |   |
| ¹Type: C = C  | oncentration, D = D          | Depletio | on, RM = Reduced | Mat     | rix, MS =         | Masked           | Sand Grains. <sup>2</sup> | Location: PL = Pore | e Lining, M = Matrix.   |
| Hydric Soil   | Indicators:                  |          |                  |         |                   |                  |                           | Indicators for P    | Problematic Hydric Soils <sup>3</sup> :                               |
| Histoso       |                              |          | Polyvalue Be     | low S   | Surface (S        | 8) <b>(LRR</b>   | R, MLRA 149B)             |                     | (A10) (LRR K, L, MLRA 149B)   |
|               | oipedon (A2)                 |          | Thin Dark Su     |         |                   |                  |                           |                     | ie Redox (A16) <b>(LRR K, L, R)</b>                                   |
|               | istic (A3)                   |          | Loamy Muck       |         |                   |                  |                           |                     |   |
| Hydroge       | en Sulfide (A4)              |          | Loamy Gleye      | -       |                   |                  |                           |                     | / Peat or Peat (S3) <b>(LRR K, L, R)</b><br>te (S7) <b>(LRR K, L)</b> |
| Stratifie     | d Layers (A5)                |          | Depleted Ma      | trix (l | F3)               |                  |                           |                     |   |
| Deplete       | d Below Dark Surfa           | ce (A11  | ) Redox Dark S   | Surfa   | ce (F6)           |                  |                           |                     | elow Surface (S8) (LRR K, L)<br>urface (S9) (LRR K, L)                |
| Thick Da      | ark Surface (A12)            |          | Depleted Da      | rk Su   | rface (F7)        | )                |                           |                     | inese Masses (F12) (LRR K, L, R)                                      |
| Sandy N       | Mucky Mineral (S1)           |          | Redox Depre      | essior  | ns (F8)           |                  |                           |                     | loodplain Soils (F19) <b>(MLRA 149B)</b>                              |
| Sandy G       | Gleyed Matrix (S4)           |          |                  |         |                   |                  |                           |                     | ic (TA6) (MLRA 144A, 145, 149B)                                       |
| Sandy F       | Redox (S5)                   |          |                  |         |                   |                  |                           | Red Parent          |   |
| Stripped      | d Matrix (S6)                |          |                  |         |                   |                  |                           |                     | w Dark Surface (TF12)   |
| Dark Su       | ırface (S7) <b>(LRR R, M</b> | LRA 14   | 9B)              |         |                   |                  |                           |                     | ain in Remarks)   |
|               |                              |          |                  |         |                   |                  |                           | •                   |   |
| -             | of hydrophytic vege          | etation  | and wetland hyd  | rolog   | y must b          | e preser         | nt, unless disturb        | ed or problematic   |   |
| Restrictive I | Layer (if observed):         |          |                  |         |                   |                  |                           |                     |   |
|               | Type:                        |          | None             |         |                   | Hydric           | Soil Present?             |                     | Yes No  |
|               | Depth (inches):              |          |                  |         |                   |                  |                           |                     |   |
| Remarks:      |                              |          |                  |         |                   |                  |                           |                     |   |
|               |                              |          |                  |         |                   |                  |                           |                     |   |
|               |                              |          |                  |         |                   |                  |                           |                     |   |
|               |                              |          |                  |         |                   |                  |                           |                     |   |
|               |                              |          |                  |         |                   |                  |                           |                     |   |
|               |                              |          |                  |         |                   |                  |                           |                     |   |
|               |                              |          |                  |         |                   |                  |                           |                     |   |
|               |                              |          |                  |         |                   |                  |                           |                     |   |
|               |                              |          |                  |         |                   |                  |                           |                     |   |
|               |                              |          |                  |         |                   |                  |                           |                     |   |
|               |                              |          |                  |         |                   |                  |                           |                     |   |
|               |                              |          |                  |         |                   |                  |                           |                     |   |
|               |                              |          |                  |         |                   |                  |                           |                     |   |
|               |                              |          |                  |         |                   |                  |                           |                     |   |
|               |                              |          |                  |         |                   |                  |                           |                     |   |
|               |                              |          |                  |         |                   |                  |                           |                     |   |
|               |                              |          |                  |         |                   |                  |                           |                     |   |
|               |                              |          |                  |         |                   |                  |                           |                     |   |
|               |                              |          |                  |         |                   |                  |                           |                     |   |
|               |                              |          |                  |         |                   |                  |                           |                     |   |
|               |                              |          |                  |         |                   |                  |                           |                     |   |



Photo of Sample Plot East



Photo of Sample Plot West



| Project/Site: Flat Creek Solar Pro                           | ject                  | City/County: Cana       | ajoharie, Montgomery Cou            | inty             | Sampling Date: 20                         | 21-Sept-09        |
|--|-----------------------|-------------------------|-------------------------------------|------------------|---|-------------------|
| Applicant/Owner: SunEast                                     |                       | -                       | State: NY                           |                  | Sampling Point: W-N                       | SD-12_UPL-1       |
| Investigator(s): Nick DeJohn, Bi                             | rian Corrigan         |                         | Section, Township,                  | Range: NA        | 4   |                   |
| Landform (hillslope, terrace, etc.)                          | : Flat                |                         | Local relief (concave, conv         | ex, none):       | Undulating                                | Slope (%): 0 to 1 |
| Subregion (LRR or MLRA):                                     | RR L                  |                         | Lat: 42.842966001                   | 5 <b>Long</b> :_ | -74.5237103105                            | Datum: WGS84      |
| Soil Map Unit Name: Illion silt                              | loam, 3 to 8 percen   | nt slopes               |                                     |                  | NWI classificatio                         | on:               |
| Are climatic/hydrologic condition                            | s on the site typical | l for this time of ye   | ar? Yes 🟒 No                        | (If no           | , explain in Remarks.)                    | 1                 |
| Are Vegetation, Soil,  | or Hydrology _        | significantly dis       | sturbed? Are "Norma                 | al Circumst      | ances" present?                           | Yes No            |
| Are Vegetation, Soil,  | or Hydrology _        | naturally probl         | ematic? (If needed,                 | explain any      | y answers in Remarks                      | i.)               |
| SUMMARY OF FINDINGS – A                                      | · ·                   | showing samplii         | ng point locations, trar            | nsects, im       | portant features,                         | etc.              |
| Hydric Soil Present?   | Yes _                 | No <u>_</u>             | Is the Sampled Area withi           | n a Wetland      | d? Ye                                     | s No <u>_</u>     |
| Wetland Hydrology Present?                                   | Yes _                 | No _ <b>_</b> _         | If yes, optional Wetland Si         | ite ID:          |   |                   |
|  |                       |                         |                                     |                  |   |                   |
| HYDROLOGY  |                       |                         |                                     |                  |   |                   |
| Wetland Hydrology Indicators:                                |                       |                         |                                     |                  |   |                   |
| Primary Indicators (minimum of                               | one is required; ch   | eck all that apply)     |                                     | -                | <u>/ Indicators (minimum</u>              | of two required)  |
| Surface Water (A1)   |                       | Water-Stained Lea       | aves (B9)                           |                  | e Soil Cracks (B6)                        |                   |
| High Water Table (A2)  |                       | _<br>_Aquatic Fauna (B1 |                                     |                  | ige Patterns (B10)                        |                   |
| Saturation (A3)  |                       | Marl Deposits (B1       | 5)                                  |                  | Frim Lines (B16)<br>ason Water Table (C2) | ١                 |
| Water Marks (B1)   |                       | Hydrogen Sulfide        |                                     | -                | sh Burrows (C8)                           | ,                 |
| Sediment Deposits (B2)                                       |                       |                         | neres on Living Roots (C3)          | -                | tion Visible on Aerial I                  | Imagery (C9)      |
| Drift Deposits (B3)  |                       | Presence of Redu        |                                     |                  | d or Stressed Plants (                    |                   |
| Algal Mat or Crust (B4)                                      | _                     |                         | ction in Tilled Soils (C6)          | Geomo            | orphic Position (D2)                      |                   |
| Iron Deposits (B5)   |                       | Thin Muck Surface       |                                     | Shallov          | w Aquitard (D3)                           |                   |
| Inundation Visible on Aerial I<br>Sparsely Vegetated Concave |                       | Other (Explain in F     | Remarks)                            | Microt           | opographic Relief (D4                     | )                 |
| Sparsely vegetated Collcave                                  | Surface (B6)          |                         |                                     | FAC-Ne           | eutral Test (D5)                          |                   |
| Field Observations:  |                       |                         |                                     |                  |   |                   |
| Surface Water Present?                                       | Yes No                | <b>∠</b> Depth          | (inches):                           | _                |   |                   |
| Water Table Present?   | Yes No                | <b>∠</b> Depth          | (inches):                           | Wetland F        | lydrology Present?                        | Yes No            |
| Saturation Present?  | Yes No                | ✓ Depth                 | (inches):                           |                  |   |                   |
| (includes capillary fringe)                                  |                       |                         |                                     | -                |   |                   |
| Describe Recorded Data (stream                               | gauge, monitoring     | well, aerial photos     | s, previous inspections), if a      | available:       |   |                   |
|  | - Baage, monitoring   | , well, derial priotos  | з, р. счово шэрсского <u>з,</u> п с | avanabic.        |   |                   |
| Remarks:   |                       |                         |                                     |                  |   |                   |
|  |                       |                         |                                     |                  |   |                   |
|  |                       |                         |                                     |                  |   |                   |
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|  |                       |                         |                                     |                  |   |                   |
|  |                       |                         |                                     |                  |   |                   |
|  |                       |                         |                                     |                  |   |                   |

| <u>Tree Stratum</u> (Plot size: <u>30 ft</u> )  |             | Dominant    |        | Dominance Test worksheet:                                |             |                             |
|---|-------------|-------------|--------|--|-------------|-----------------------------|
|   | % Cover     | Species?    | Status | Number of Dominant Species That                          | 0           | (A)                         |
| 1   |             |             |        | Are OBL, FACW, or FAC:  Total Number of Dominant Species |             |                             |
| 2   |             |             |        | Across All Strata:                                       | 2           | (B)                         |
| 3   |             |             |        | Percent of Dominant Species That                         | -           |                             |
| 4   |             |             |        | - Are OBL, FACW, or FAC:                                 | 0           | (A/B)                       |
| 5   |             |             |        | Prevalence Index worksheet:                              | -           |                             |
| 6   |             |             |        | - Total % Cover of:                                      | Multiply    | , Rv.                       |
| 7   |             |             |        | - OBL species 0  | x 1 =       | <del>г<b>оу.</b></del><br>О |
|   | 0           | = Total Cov | er     | FACW species 0   | x 2 =       | 0                           |
| Sapling/Shrub Stratum (Plot size: 15 ft )       |             |             |        | FAC species 12   | x 3 =       | 36                          |
| 1   |             |             |        |  | -           |                             |
| 2.  |             |             |        | FACU species 85  | _ x 4 =     | 340                         |
| 3.  |             |             |        | UPL species 0  | x 5 =       | 0                           |
| 4.  |             |             |        | - Column Totals 97                                       | (A)         | 376 (B)                     |
| 5.  |             |             |        | Prevalence Index = B/A =                                 | 3.9         | ·                           |
| 6.  |             |             |        | Hydrophytic Vegetation Indicators:                       |             |                             |
| 7.  |             |             |        | 1- Rapid Test for Hydrophytic                            | Vegetatio   | n                           |
| ··  |             | = Total Cov | or     | 2 - Dominance Test is > 50%                              |             |                             |
| Harb Stratum (Diet size) Eft )                  |             | _ 10tal C0V | ei     | 3 - Prevalence Index is $\leq 3.0^1$                     |             |                             |
| Herb Stratum (Plot size: 5 ft )                 | 60          | Voc         | FACIL  | 4 - Morphological Adaptation                             | s¹ (Provide | supporting                  |
| 1. Solidago canadensis                          | 60          | Yes         | FACU   | data in Remarks or on a separate s                       | sheet)      |                             |
| 2. Galium mollugo                               |             | Yes         | FACU   | - Problematic Hydrophytic Veg                            |             | •                           |
| 3. Euthamia graminifolia                        | 12          | No          | FAC    | Indicators of hydric soil and wetla                      | nd hydrolo  | ogy must be                 |
| 4. Cichorium intybus                            | 5           | No          | FACU   | present, unless disturbed or proble                      | ematic      |                             |
| 5   |             |             |        | Definitions of Vegetation Strata:                        |             |                             |
| 6   |             |             |        | Tree – Woody plants 3 in. (7.6 cm)                       |             | diameter at                 |
| 7   |             |             |        | breast height (DBH), regardless of                       | _           |                             |
| 8   |             |             |        | Sapling/shrub – Woody plants less                        |             | DBH and                     |
| 9   |             |             |        | greater than or equal to 3.28 ft (1 r                    |             |                             |
| 10  |             |             |        | Herb – All herbaceous (non-woody                         |             | gardless of                 |
| 11  |             |             |        | size, and woody plants less than 3.                      |             | 206:                        |
| 12  |             |             |        | Woody vines – All woody vines gre                        | ater than a | 3.28 Tt IN                  |
|   | 97          | = Total Cov | er     | height.  |             |                             |
| Woody Vine Stratum (Plot size: 30 ft )          |             |             |        | Hydrophytic Vegetation Present?                          | Yes         | No <u> </u>                 |
| 1   |             |             |        |  |             |                             |
| 2.  |             |             |        |  |             |                             |
| 3.  |             |             |        |  |             |                             |
| 4.  |             |             |        |  |             |                             |
|   | 0           | = Total Cov | er     | 1  |             |                             |
| Remarks: (Include photo numbers here or on a se |             | _           |        |  |             |                             |
| 3.<br>4.  | <del></del> | = Total Cov | er     | -  |             |                             |

| Depth     Matrix     Redox Features       (inches)     Color (moist)     %     Color (moist)     %     Type¹     Loc²     Texture     Rer  |                          |
|--|--------------------------|
| (inches) Color (moist) % Color (moist) % Type¹ Loc² Texture Rer  |                          |
|  | marks                    |
| 0 - 18   |                          |
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| <sup>1</sup> Type: C = Concentration, D = Depletion, RM = Reduced Matrix, MS = Masked Sand Grains. <sup>2</sup> Location: PL = Pore Lining, M = M  | atrix.                   |
| Hydric Soil Indicators: Indicators for Problematic Hydric Soil Indicators for Problematic Hydric Hy | dric Soils³:             |
| Histosol (A1) Polyvalue Below Surface (S8) (LRR R, MLRA 149B) 2 cm Muck (A10) (LRR K, L,   | MI RA 149R\              |
| Histic Epipedon (A2)  Thin Dark Surface (S9) (LRR R, MLRA 149B)  Coast Prairie Redox (A16) (   |                          |
| Plack Histis (A2) Learny Mucky Mineral (E1) (LDD K.1)  | · · · ·                  |
| Hydrogen Sulfide (A4) Learny Gloved Matrix (F2)  |                          |
| Stratified Layers (A5)  Depleted Matrix (F3)  — Dark Surface (57) (LRR K, L)   |                          |
| Depleted Below Dark Surface (A11) Peday Dark Surface (F6) Follyvalue Below Surface (S  |                          |
| Thick Dark Surface (A12)  Depleted Dark Surface (F7)  — Inin Dark Surface (S9) (LRH  |                          |
| Sandy Mucky Mineral (S1) Redox Depressions (F8) Iron-Manganese Masses (F   |                          |
| Piedmont Floodplain Soils Sandy Gleyed Matrix (S4)   | (F19) <b>(MLRA 149B)</b> |
| Mesic Sport (TAb) (MI RA)  | 144A, 145, 149B)         |
| Sandy Redox (S5) Red Parent Material (F21)   |                          |
| Stripped Matrix (S6) Very Shallow Dark Surface   | (TF12)                   |
| Dark Surface (S7) (LRR R, MLRA 149B) Other (Explain in Remarks)  | 1                        |
| · ·  | 1                        |
| Indicators of hydrophytic vegetation and wetland hydrology must be present, upless disturbed or problematic  | 1                        |
| <sup>3</sup> Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.  |                          |
| Restrictive Layer (if observed):   |                          |
| Restrictive Layer (if observed):  Type: None Hydric Soil Present? Yes No ✓   |                          |
| Restrictive Layer (if observed):   |                          |
| Restrictive Layer (if observed):  Type: None Hydric Soil Present? Yes No ✓   |                          |
| Restrictive Layer (if observed):  Type: None Hydric Soil Present? Yes No ✓  Depth (inches):  |                          |
| Restrictive Layer (if observed):  Type: None Hydric Soil Present? Yes No ✓  Depth (inches):  |                          |
| Restrictive Layer (if observed):  Type: None Hydric Soil Present? Yes No ✓  Depth (inches):  |                          |
| Restrictive Layer (if observed):  Type: None Hydric Soil Present? Yes No ✓  Depth (inches):  |                          |
| Restrictive Layer (if observed):  Type: None Hydric Soil Present? Yes No ✓  Depth (inches):  |                          |
| Restrictive Layer (if observed):  Type: None Hydric Soil Present? Yes No ✓  Depth (inches):  |                          |
| Restrictive Layer (if observed):  Type: None Hydric Soil Present? Yes No ✓  Depth (inches):  |                          |
| Restrictive Layer (if observed):  Type: None Hydric Soil Present? Yes No ✓  Depth (inches):  |                          |
| Restrictive Layer (if observed):  Type: None Hydric Soil Present? Yes No ✓  Depth (inches):  |                          |
| Restrictive Layer (if observed):  Type: None Hydric Soil Present? Yes No ✓  Depth (inches):  |                          |
| Restrictive Layer (if observed):  Type: None Hydric Soil Present? Yes No ✓  Depth (inches):  |                          |
| Restrictive Layer (if observed):  Type: None Hydric Soil Present? Yes No ✓  Depth (inches):  |                          |
| Restrictive Layer (if observed):  Type: None Hydric Soil Present? Yes No ✓  Depth (inches):  |                          |
| Restrictive Layer (if observed):  Type: None Hydric Soil Present? Yes No ✓  Depth (inches):  |                          |
| Restrictive Layer (if observed):  Type: None Hydric Soil Present? Yes No ✓  Depth (inches):  |                          |
| Restrictive Layer (if observed):  Type: None Hydric Soil Present? Yes No ✓  Depth (inches):  |                          |
| Restrictive Layer (if observed):  Type: None Hydric Soil Present? Yes No ✓  Depth (inches):  |                          |
| Restrictive Layer (if observed):  Type: None Hydric Soil Present? Yes No ✓  Depth (inches):  |                          |
| Restrictive Layer (if observed):  Type: None Hydric Soil Present? Yes No ✓  Depth (inches):  |                          |
| Restrictive Layer (if observed):  Type: None Hydric Soil Present? Yes No ✓  Depth (inches):  |                          |
| Restrictive Layer (if observed):  Type: None Hydric Soil Present? Yes No ✓  Depth (inches):  |                          |



Photo of Sample Plot East



Photo of Sample Plot West



| Project/Site: Flat Creek Solar Proj      | ject                  |          | City/County: Can   | ajoharie, Montgomery Cou        | nty         | Sampling Date: 202         | 1-Sept-09            |
|--|-----------------------|----------|--|---------------------------------|-------------|----------------------------|----------------------|
| Applicant/Owner: SunEast                 |                       |          |  | State: NY                       |             | Sampling Point: W-NS       | D-12_UPL-2           |
| Investigator(s): Nick DeJohn, Br         | ian Corrigan          |          |  | Section, Township,              | Range: N    | Α                          |                      |
| Landform (hillslope, terrace, etc.):     | Flat                  |          |  | Local relief (concave, conv     | ex, none):  | Undulating                 | Slope (%): 0 to 1    |
| Subregion (LRR or MLRA): LF              | RR L                  |          | <del>-</del>   | Lat: 42.842964367               | Long:       | -74.5232450311             | Datum: WGS84         |
| Soil Map Unit Name: Illion silt l        | oam, 3 to 8 p         | ercer    | nt slopes  | _                               |             | NWI classification         | :                    |
| Are climatic/hydrologic conditions       | on the site t         | ypica    | l for this time of ye  | ar? Yes _✓_ No                  | (If no      | o, explain in Remarks.)    |                      |
| Are Vegetation, Soil,                    | or Hydrol             | ogy _    | significantly dis  | sturbed? Are "Norm              | al Circumst | tances" present?           | ∕es _ <b>.∕</b> _ No |
| Are Vegetation, Soil,                    | or Hydrol             | ogy_     | naturally probl  | ematic? (If needed,             | explain an  | y answers in Remarks.)     |                      |
|  |                       |          |  |                                 |             |                            |                      |
| SUMMARY OF FINDINGS – A                  | ttach site n          | naps     | showing sampli   | ng point locations, trar        | nsects, im  | nportant features, e       | tc.                  |
| Hydrophytic Vegetation Present?          |                       | Yes _    | No   |                                 |             |                            |                      |
| Hydric Soil Present?                     |                       | Yes _    | No <b>/</b> _  | Is the Sampled Area withi       | n a Wetlan  | d? Yes                     | No <u>_</u>          |
| Wetland Hydrology Present?               |                       | Yes _    | No <b>/</b> _  | If yes, optional Wetland S      | ite ID:     |                            |                      |
| Remarks: (Explain alternative pro        | codures here          |          |  | L                               |             | ·                          |                      |
|  | cedures nere          | e Or II  | i a separate report  | )                               |             |                            |                      |
| Covertype is UPL.                        |                       |          |  |                                 |             |                            |                      |
|  |                       |          |  |                                 |             |                            |                      |
|  |                       |          |  |                                 |             |                            |                      |
|  |                       |          |  |                                 |             |                            |                      |
|  |                       |          |  |                                 |             |                            |                      |
|  |                       |          |  |                                 |             |                            |                      |
|  |                       |          |  |                                 |             |                            |                      |
|  |                       |          |  |                                 |             |                            |                      |
|  |                       |          |  |                                 |             |                            |                      |
|  |                       |          |  |                                 |             |                            |                      |
|  |                       |          |  |                                 |             |                            |                      |
| HYDROLOGY                                |                       |          |  |                                 |             |                            |                      |
|  |                       |          |  |                                 |             |                            |                      |
| Wetland Hydrology Indicators:            |                       |          |  |                                 |             |                            |                      |
| Primary Indicators (minimum of           | <u>one is require</u> | ed; ch   | eck all that apply)  |                                 | Secondar    | y Indicators (minimum      | of two required)     |
| Surface Water (A1)                       |                       |          | Water Stained Lea  | 21/05 (PO)                      | Surfac      | e Soil Cracks (B6)         |                      |
| Surface Water (A1) High Water Table (A2) |                       |          | <sub>-</sub> Water-Stained Lea<br><sub>-</sub> Aquatic Fauna (B1 |                                 | Draina      | age Patterns (B10)         |                      |
| Saturation (A3)                          |                       |          | _ Aquatic Fauria (B1<br>_ Marl Deposits (B1                      |                                 | Moss        | Trim Lines (B16)           |                      |
| Saturation (AS)<br>Water Marks (B1)      |                       |          | _ Hydrogen Sulfide   |                                 | Dry-Se      | eason Water Table (C2)     |                      |
| Sediment Deposits (B2)                   |                       |          |  | neres on Living Roots (C3)      | Crayfis     | sh Burrows (C8)            |                      |
| Drift Deposits (B3)                      |                       |          | Presence of Redu   | •                               | Satura      | ition Visible on Aerial In | nagery (C9)          |
| Algal Mat or Crust (B4)                  |                       |          |  | tion in Tilled Soils (C6)       | Stunte      | ed or Stressed Plants (D   | 1)                   |
| Algai Mat of Crust (B4)                  |                       |          | Thin Muck Surface  |                                 | Geom        | orphic Position (D2)       |                      |
|  | magan (D7)            |          |  |                                 | Shallo      | w Aquitard (D3)            |                      |
| Inundation Visible on Aerial Ir          |                       |          | Other (Explain in I  | Remarks)                        | Microt      | copographic Relief (D4)    |                      |
| Sparsely Vegetated Concave S             | ourface (B8)          |          |  |                                 |             | eutral Test (D5)           |                      |
| Field Observations:                      |                       |          |  |                                 |             | , ,                        |                      |
| Surface Water Present?                   | Yes                   | No _     | <u>✓</u> Depth   | (inches):                       | _           |                            |                      |
| Water Table Present?                     | Yes                   | No _     | ✓ Depth  | (inches):                       | Wetland H   | Hydrology Present?         | Yes No               |
| Saturation Present?                      | Yes                   | No _     | ✓ Depth  | (inches):                       | =           |                            |                      |
| (includes capillary fringe)              |                       |          |  |                                 | -           |                            |                      |
| Describe Recorded Data (stream           | gauge moni            | toring   | well perial photo  | s provious inspections) if      | available:  |                            | <del></del>          |
| Describe Recorded Data (stream           | gauge, mom            | נטו וווצ | s well, aeriai prioto:   | s, previous irispections), ir a | avallable.  |                            |                      |
|  |                       |          |  |                                 |             |                            |                      |
|  |                       |          |  |                                 |             |                            |                      |
| Remarks:                                 |                       |          |  |                                 |             |                            |                      |
| Remarks.                                 |                       |          |  |                                 |             |                            |                      |
|  |                       |          |  |                                 |             |                            |                      |
|  |                       |          |  |                                 |             |                            |                      |
|  |                       |          |  |                                 |             |                            |                      |
|  |                       |          |  |                                 |             |                            |                      |
|  |                       |          |  |                                 |             |                            |                      |
|  |                       |          |  |                                 |             |                            |                      |
|  |                       |          |  |                                 |             |                            |                      |
|  |                       |          |  |                                 |             |                            |                      |

| <u>Tree Stratum</u> (Plot size: <u>30 ft</u> ) |         | Dominant    |           | Dominance Test worksheet:                               |                          |                         |
|--|---------|-------------|-----------|---|--------------------------|-------------------------|
|  | % Cover | Species?    | Status    | Number of Dominant Species Th                           | at <b>0</b>              | (A)                     |
| 1  |         |             |           | Are OBL, FACW, or FAC:                                  |                          |                         |
| 2  |         |             |           | Total Number of Dominant Speci                          | es 1                     | (B)                     |
| 3  |         |             |           | Across All Strata:                                      |                          |                         |
| 4  |         |             |           | Percent of Dominant Species That Are OBL, FACW, or FAC: | 0                        | (A/B)                   |
| 5  |         |             |           | Prevalence Index worksheet:                             |                          |                         |
| 6.   |         |             |           | - Total % Cover of:                                     | Multiple                 | . D. e                  |
| 7.   |         |             |           | - OBL species 0   | <u>Multiply</u><br>x 1 = | <u>г<b>ьу.</b></u><br>О |
|  | 0       | = Total Cov | er        | FACW species 12   | x 1 =                    |                         |
| Sapling/Shrub Stratum (Plot size: 15 ft)       |         | -           |           | ·   | _                        | 24                      |
| 1.   |         |             |           | FAC species 5   | _ x 3 =                  | 15                      |
| 2.   |         |             |           | FACU species 80   | x 4 =                    | 320                     |
| 3.   |         |             |           | - UPL species 10  | x 5 =                    | 50                      |
| 4.   |         |             |           | - Column Totals 107                                     | (A)                      | 409 (B)                 |
| 5.   |         |             |           | Prevalence Index = B/A                                  | = 3.8                    |                         |
|  |         |             |           | Hydrophytic Vegetation Indicator                        | s:                       |                         |
| 6  |         |             |           | 1- Rapid Test for Hydrophyt                             | ic Vegetatio             | า                       |
| ·  |         | = Total Cov |           | 2 - Dominance Test is > 50%                             | )                        |                         |
|  | 0       | = Total Cov | er        | 3 - Prevalence Index is ≤ 3.                            | )1                       |                         |
| Herb Stratum (Plot size:5 ft)                  | 60      | .,          | E 4 C 1 1 | 4 - Morphological Adaptatio                             | ns¹ (Provide             | supporting              |
| 1. Solidago canadensis                         | 60      | Yes         | FACU      | data in Remarks or on a separate                        | sheet)                   |                         |
| 2. Galium mollugo                              | 20      | No          | FACU      | Problematic Hydrophytic Ve                              | egetation¹ (E            | xplain)                 |
| 3. <i>Phalaris arundinacea</i>                 | 12      | No          | FACW      | <sup>1</sup> Indicators of hydric soil and wet          | land hydrolo             | gy must be              |
| 4. Asclepias syriaca                           | 10      | No          | UPL       | present, unless disturbed or pro                        | olematic                 |                         |
| 5. <i>Cornus racemosa</i>                      | 5       | No          | FAC       | Definitions of Vegetation Strata:                       |                          |                         |
| 6  |         |             |           | Tree – Woody plants 3 in. (7.6 cm                       | ) or more in             | diameter at             |
| 7  |         |             |           | breast height (DBH), regardless of                      | f height.                |                         |
| 8  |         |             |           | Sapling/shrub – Woody plants les                        | s than 3 in.             | DBH and                 |
| 9.   |         |             |           | greater than or equal to 3.28 ft (                      | m) tall.                 |                         |
| 10.  |         |             |           | Herb – All herbaceous (non-wood                         |                          | gardless of             |
| 11.  |         |             |           | size, and woody plants less than                        |                          |                         |
| 12.  |         |             |           | Woody vines – All woody vines g                         | eater than 3             | 3.28 ft in              |
|  | 107     | = Total Cov | er        | height.   |                          |                         |
| Woody Vine Stratum (Plot size: 30 ft )         |         | •           |           | Hydrophytic Vegetation Present                          | ? Yes                    | No <u>_</u>             |
| 1.   |         |             |           |   |                          |                         |
| 2.   |         |             |           | -   |                          |                         |
| 3.   |         |             |           | -   |                          |                         |
| J  |         |             |           | - [   |                          |                         |
| 1  |         |             |           | -   |                          |                         |
| 4  | 0       | = Total Cov |           |   |                          |                         |

|             | scription: (Describe  | to the de | -                |        |                   | ndicato          | or confirm the    | absence of indicator  | s.)                                    |
|-------------|-----------------------|-----------|------------------|--------|-------------------|------------------|-------------------|-----------------------|--|
| Depth       | Matrix                |           | Redox            | Feat   | tures             |                  |                   |                       |  |
| (inches)    | Color (moist)         | %         | Color (moist)    | %      | Type <sup>1</sup> | Loc²             | Tex               | kture                 | Remarks                                |
| 0 - 11      | 10YR 3/2              | 100       |                  |        |                   |                  | Silty Cl          | ay Loam               |  |
| 11 - 20     | 10YR 4/2              | 95        | 10YR 5/8         | 5      | С                 | M                | Clay              | Loam                  |  |
|             |                       |           |                  |        |                   |                  |                   |                       |  |
|             |                       |           |                  |        |                   |                  |                   |                       |  |
| -           | -                     |           |                  | _      |                   |                  |                   |                       |  |
|             | -                     |           |                  | _      |                   |                  |                   |                       | _                                      |
|             | -                     |           |                  | _      |                   |                  |                   | ·                     |  |
|             |                       |           |                  | _      |                   |                  |                   | <del></del> .         |  |
| <u> </u>    | -                     |           |                  | _      |                   |                  |                   | ·                     |  |
|             |                       |           |                  | _      |                   |                  |                   |                       |  |
|             |                       |           |                  | _      |                   |                  |                   |                       |  |
|             |                       |           |                  | _      |                   |                  |                   |                       |  |
|             |                       |           |                  | _      |                   |                  |                   |                       |  |
| ¹Type: C =  | Concentration, D =    | Depletio  | n, RM = Reduced  | Mat    | rix, MS =         | Masked           | Sand Grains. 2    | Location: PL = Pore L | Lining, M = Matrix.                    |
| Hydric Soil | Indicators:           |           |                  |        |                   |                  |                   | Indicators for Pro    | blematic Hydric Soils³:                |
| Histoso     | ol (A1)               |           | Polyvalue Bel    | ow S   | urface (S         | 8) <b>(LRR</b> I | R, MLRA 149B)     | 2 cm Muck (A          | 10) <b>(LRR K, L, MLRA 149B)</b>       |
| Histic E    | pipedon (A2)          |           | Thin Dark Sur    | face   | (S9) (LRF         | R, MLR           | A 149B)           | <del></del>           | Redox (A16) (LRR K, L, R)              |
| Black F     | listic (A3)           |           | Loamy Mucky      | Mir    | eral (F1)         | (LRR K, I        | _)                | <del></del>           | eat or Peat (S3) (LRR K, L, R)         |
| Hydrog      | gen Sulfide (A4)      |           | Loamy Gleyed     |        |                   |                  |                   | Dark Surface          |  |
| Stratifi    | ed Layers (A5)        |           | Depleted Mat     | rix (I | <del>-</del> 3)   |                  |                   |                       | ow Surface (S8) <b>(LRR K, L)</b>      |
| Deplet      | ed Below Dark Surf    | ace (A11) |                  |        |                   |                  |                   | •                     | face (S9) <b>(LRR K, L)</b>            |
|             | ark Surface (A12)     |           | Depleted Dar     |        |                   | )                |                   |                       | ese Masses (F12) (LRR K, L, R)         |
| Sandy       | Mucky Mineral (S1)    |           | Redox Depre      | ssior  | ıs (F8)           |                  |                   | _                     | odplain Soils (F19) <b>(MLRA 149B)</b> |
| Sandy       | Gleyed Matrix (S4)    |           |                  |        |                   |                  |                   | <del></del>           | (TA6) (MLRA 144A, 145, 149B)           |
| Sandy       | Redox (S5)            |           |                  |        |                   |                  |                   | Red Parent M          |  |
| Strippe     | ed Matrix (S6)        |           |                  |        |                   |                  |                   |                       | Dark Surface (TF12)                    |
| Dark S      | urface (S7) (LRR R, N | /ILRA 149 | 9B)              |        |                   |                  |                   | Other (Explain        |  |
| 31          | C                     |           |                  |        |                   |                  | A                 |                       | Till Nelliarks)                        |
|             | of hydrophytic veg    |           | and wetland nydr | olog   | y must be         | e presen         | t, uniess disturb | ed or problematic.    |  |
| Restrictive | Layer (if observed):  |           |                  |        |                   | l                |                   |                       |  |
|             | Type:                 |           | None             |        |                   | Hydric           | Soil Present?     | ·                     | Yes No⁄_                               |
|             | Depth (inches):       |           |                  |        |                   |                  |                   |                       |  |
| Remarks:    |                       |           |                  |        |                   |                  |                   |                       |  |
|             |                       |           |                  |        |                   |                  |                   |                       |  |
|             |                       |           |                  |        |                   |                  |                   |                       |  |
|             |                       |           |                  |        |                   |                  |                   |                       |  |
|             |                       |           |                  |        |                   |                  |                   |                       |  |
|             |                       |           |                  |        |                   |                  |                   |                       |  |
|             |                       |           |                  |        |                   |                  |                   |                       |  |
|             |                       |           |                  |        |                   |                  |                   |                       |  |
|             |                       |           |                  |        |                   |                  |                   |                       |  |
|             |                       |           |                  |        |                   |                  |                   |                       |  |
|             |                       |           |                  |        |                   |                  |                   |                       |  |
|             |                       |           |                  |        |                   |                  |                   |                       |  |
|             |                       |           |                  |        |                   |                  |                   |                       |  |
|             |                       |           |                  |        |                   |                  |                   |                       |  |
|             |                       |           |                  |        |                   |                  |                   |                       |  |
|             |                       |           |                  |        |                   |                  |                   |                       |  |
|             |                       |           |                  |        |                   |                  |                   |                       |  |
|             |                       |           |                  |        |                   |                  |                   |                       |  |
|             |                       |           |                  |        |                   |                  |                   |                       |  |
|             |                       |           |                  |        |                   |                  |                   |                       |  |
|             |                       |           |                  |        |                   |                  |                   |                       |  |
|             |                       |           |                  |        |                   |                  |                   |                       |  |



Photo of Sample Plot East





Photo of Sample Plot South



| Project/Site: Flat Creek Solar Project/Site: Project/Site: Flat Creek Solar Project/Site: Project/Si | oject   | City/County: Cana  | ijoharie, Montgomery Cou   | nty Sampling Dat   | te: 2021-Sept-10                                   |
|--|---|--|--|--|--|
| Applicant/Owner: SunEast   |   |  | State: NY  | Sampling Point   | : W-NSD-13_PEM-1                                   |
| Investigator(s): Nick DeJohn, E  | Brian Corrigan                                  |  | Section, Township,   | Range: NA  |  |
| Landform (hillslope, terrace, etc.   | ): Depression                                   | n  | Local relief (concave, conv  | ex, none): Concave   | Slope (%): 0 to 1                                  |
| Subregion (LRR or MLRA):   | _RR L   |  | Lat: 42.839570660  | 2 <b>Long</b> : -74.526819577  | Datum: WGS84                                       |
| Soil Map Unit Name:Illion silt   | loam, 0 to 3 perc                               | ent slopes   |  | NWI class  | ification:   |
| Are climatic/hydrologic condition  | ns on the site typic                            | cal for this time of yea   | ar? Yes <u></u> ✓ No   | (If no, explain in Ren   | narks.)  |
| Are Vegetation, Soil,  | or Hydrology                                    | significantly dis  | turbed? Are "Norma   | al Circumstances" present  | ? Yes 🟒 No   |
| Are Vegetation, Soil,  | or Hydrology                                    | naturally proble   | ematic? (If needed,  | explain any answers in Re  | marks.)  |
|  |   |  |  |  |  |
| SUMMARY OF FINDINGS – A  | Attach site map                                 | showing samplin  | g point locations, trar  | sects, important feat  | ures, etc.   |
| Hydrophytic Vegetation Present   | t? Yes  | No   |  |  |  |
| Hydric Soil Present?   | Yes   | _ <b>✓</b> _ No  | Is the Sampled Area within   | n a Wetland?   | Yes No   |
| Wetland Hydrology Present?   | Yes   | No   | If yes, optional Wetland Si  | te ID:   | W-NSD-13   |
| Remarks: (Explain alternative pr   |   |  |  |  |  |
|  |   |  |  |  |  |
| Wetland Hydrology Indicators: Primary Indicators (minimum of p | -<br>-<br>-<br>-<br>-<br>-<br>-<br>Imagery (B7) | Water-Stained Lea Aquatic Fauna (B1: Marl Deposits (B1: Hydrogen Sulfide ( Oxidized Rhizosph Presence of Reduc | 3) 5) Cloor (C1) eres on Living Roots (C3) ed Iron (C4) tion in Tilled Soils (C6) (C7) | Secondary Indicators (min  Surface Soil Cracks (Bi  Drainage Patterns (B16)  Moss Trim Lines (B16)  Dry-Season Water Tab  Crayfish Burrows (C8)  Saturation Visible on A  Stunted or Stressed P  Geomorphic Position  Shallow Aquitard (D3)  Microtopographic Rel  FAC-Neutral Test (D5) | 6) 0) ble (C2) Aerial Imagery (C9) lants (D1) (D2) |
| Field Observations:  | .,  |  |  |  |  |
| Surface Water Present?   | Yes No  | •  | -  |  |  |
| Water Table Present?   | Yes No  | Depth (  | inches):   | Wetland Hydrology Prese  | ent? Yes No  |
| Saturation Present?  | Yes No  | Depth (  | inches):   |  |  |
| (includes capillary fringe)  |   |  | - <del></del>  |  |  |
| Describe Recorded Data (strear   | n gauge, monitori                               | ng well, aerial photos   | , previous inspections), if a  | l<br>available:  |  |
| Remarks:   |   |  |  |  |  |
| Remarks:   |   |  |  |  |  |

| <u>Tree Stratum</u> (Plot size: <u>30 ft</u> )     |             | Dominant<br>Species? | Indicator<br>Status | Dominance Test worksheet: Number of Dominant Species Are OBL, FACW, or FAC: | That 1            | (A)              |
|--|-------------|----------------------|---------------------|---|-------------------|------------------|
| 1  |             |                      |                     | Total Number of Dominant Sp   | ecies             |                  |
| 2.   |             |                      |                     | Across All Strata:  | 2                 | (B)              |
| 3.   |             |                      |                     | Percent of Dominant Species   | That 50           |                  |
| 4  |             |                      |                     | Are OBL, FACW, or FAC:  | 50                | (A/B)            |
| 5  |             |                      |                     | Prevalence Index worksheet:   |                   |                  |
| 6  |             |                      |                     | Total % Cover of:   | <u>Multiply</u>   | <sup>,</sup> Ву: |
| 7  |             |                      |                     | OBL species 5   | x 1 =             | 5                |
|  | 0           | = Total Cov          | er                  | FACW species 60   | x 2 =             | 120              |
| Sapling/Shrub Stratum (Plot size: 15 ft )          |             |                      |                     | FAC species 12  | x 3 =             | 36               |
| 1  |             |                      |                     | FACU species 25   | x 4 =             | 100              |
| 2.   |             |                      |                     | UPL species 0   | <del></del> -     | 0                |
| 3.   |             |                      |                     | - Column Totals 103   |                   | 261 (B)          |
| 4  |             |                      |                     | Prevalence Index =  | ` , , .           | 201 (b)          |
| 5  |             |                      |                     | -   |                   | <u> </u>         |
| 6.   |             |                      |                     | Hydrophytic Vegetation Indica   |                   |                  |
| 7.   |             |                      |                     | 1- Rapid Test for Hydrop  |                   | า                |
|  | 0           | = Total Cov          | er                  | 2 - Dominance Test is > !   |                   |                  |
| Herb Stratum (Plot size: _ 5 ft)                   | -           | =                    |                     | 3 - Prevalence Index is ≤   |                   |                  |
| 1. Symphyotrichum novi-belgii                      | 40          | Yes                  | FACW                | 4 - Morphological Adapt   |                   | supporting       |
| Solidago canadensis                                | 25          | Yes                  | FACU                | data in Remarks or on a sepa  |                   |                  |
| 3. Onoclea sensibilis                              | 20          | No                   | FACW                | Problematic Hydrophyti  | _                 | •                |
| 4. Equisetum arvense                               | 12          | No No                | FAC                 | ¹Indicators of hydric soil and v  | •                 | gy must be       |
| 5. Scirpus cyperinus                               | 5           | No                   | OBL                 | present, unless disturbed or p  |                   |                  |
|  |             | INU                  | OBL                 | Definitions of Vegetation Stra  |                   |                  |
| 6.   |             |                      |                     | Tree – Woody plants 3 in. (7.6  |                   | diameter at      |
| 7  |             |                      |                     | breast height (DBH), regardle   | _                 | DDIII            |
| 8.   |             |                      |                     | Sapling/shrub – Woody plants  |                   | DBH and          |
| 9  |             |                      |                     | greater than or equal to 3.28   |                   | gardlass of      |
| 10   |             |                      |                     | Herb – All herbaceous (non-w<br>size, and woody plants less th              |                   | gardiess of      |
| 11   |             |                      |                     | Woody vines – All woody vine  |                   | 2.29 ft in       |
| 12   |             |                      |                     | height.   | sgreater triair s | 0.20 11 111      |
|  | 102         | = Total Cov          | er                  |   |                   |                  |
| Woody Vine Stratum (Plot size:30 ft)               |             |                      |                     | Hydrophytic Vegetation Pres   | ent? Yes/_ [      | No               |
| 1  |             |                      |                     |   |                   |                  |
| 2  |             |                      |                     |   |                   |                  |
| 3.   |             |                      |                     |   |                   |                  |
| 4.   |             |                      |                     |   |                   |                  |
|  |             | = Total Cov          | er                  |   |                   |                  |
|  |             | =                    |                     |   |                   |                  |
| Remarks: (Include photo numbers here or on a separ | ate sheet.) |                      |                     |   |                   |                  |
|  |             |                      |                     |   |                   |                  |
|  |             |                      |                     |   |                   |                  |
|  |             |                      |                     |   |                   |                  |
|  |             |                      |                     |   |                   |                  |
|  |             |                      |                     |   |                   |                  |
|  |             |                      |                     |   |                   |                  |
|  |             |                      |                     |   |                   |                  |

| Profile Desc  | cription: (Describe         | to the de | =                |       |                   | ndicato          | or confirm the a            | bsence of indicato | ors.)                                  |
|---------------|-----------------------------|-----------|------------------|-------|-------------------|------------------|-----------------------------|--------------------|--|
| Depth _       | Matrix                      |           | Redox            |       |                   |                  |                             |                    |  |
| (inches)      | Color (moist)               | %         | Color (moist)    | %     | Type <sup>1</sup> | Loc <sup>2</sup> | Text                        | ure                | Remarks                                |
| 0 - 7         | 10YR 3/2                    | 100       |                  | _     |                   |                  | Silty Cla                   | y Loam             |  |
| 7 - 18        | 10YR 3/2                    | 95        | 10YR 3/2         | 5     | C                 | M                | Silty Cla                   | y Loam             |  |
|               |                             |           |                  |       |                   |                  |                             |                    |  |
|               |                             |           |                  | _     |                   |                  |                             |                    |  |
|               |                             |           |                  | _     |                   |                  |                             |                    |  |
|               |                             |           |                  | _     |                   |                  |                             | _                  |  |
|               |                             |           |                  | _     |                   |                  |                             |                    |  |
| <u> </u>      |                             |           |                  | _     |                   |                  |                             |                    |  |
|               |                             |           |                  | _     |                   |                  |                             |                    |  |
|               |                             |           |                  | _     |                   |                  |                             |                    |  |
|               |                             |           |                  | _     |                   |                  |                             |                    |  |
|               |                             |           |                  | _     |                   |                  |                             |                    |  |
|               |                             |           |                  |       |                   |                  |                             |                    |  |
| ¹Type: C = C  | Concentration, D =          | Depletic  | n, RM = Reduced  | Mat   | rix, MS =         | Masked           | Sand Grains. <sup>2</sup> L | ocation: PL = Pore | E Lining, M = Matrix.                  |
| Hydric Soil I | Indicators:                 |           |                  |       |                   |                  |                             | Indicators for P   | roblematic Hydric Soils <sup>3</sup> : |
| Histosol      |                             |           | Polyvalue Bel    | ow S  | urface (S         | 8) <b>(LRR</b> I | R. MLRA 149B)               |                    | •                                      |
|               | oipedon (A2)                |           | Thin Dark Sur    |       |                   |                  |                             |                    | A10) (LRR K, L, MLRA 149B)             |
| Black Hi      | •                           |           | Loamy Mucky      |       |                   |                  |                             |                    | e Redox (A16) (LRR K, L, R)            |
| l             | en Sulfide (A4)             |           | Loamy Gleyed     |       |                   | ` ,              | •                           |                    | Peat or Peat (S3) (LRR K, L, R)        |
| ,             | d Layers (A5)               |           | Depleted Mat     |       |                   |                  |                             | Dark Surface       |  |
|               | d Below Dark Surfa          |           |                  |       |                   |                  |                             |                    | elow Surface (S8) (LRR K, L)           |
|               | ark Surface (A12)           |           | Depleted Dar     |       |                   |                  |                             |                    | urface (S9) (LRR K, L)                 |
| Sandy M       | lucky Mineral (S1)          |           | Redox Depre      | ssior | ıs (F8)           |                  |                             |                    | nese Masses (F12) (LRR K, L, R)        |
|               | Gleyed Matrix (S4)          |           |                  |       |                   |                  |                             |                    | oodplain Soils (F19) (MLRA 149B)       |
| -             | ledox (S5)                  |           |                  |       |                   |                  |                             |                    | c (TA6) <b>(MLRA 144A, 145, 149B)</b>  |
| _             | d Matrix (S6)               |           |                  |       |                   |                  |                             | Red Parent l       |  |
|               | rface (S7) <b>(LRR R, N</b> | AI DA 140 | ופו              |       |                   |                  |                             | •                  | v Dark Surface (TF12)                  |
| Dark Su       | 11ace (3/) (LKK K, N        | ILKA 14:  | (ספ              |       |                   |                  |                             | Other (Expla       | ain in Remarks)                        |
| 3Indicators   | of hydrophytic veg          | etation   | and wetland hydr | olog  | y must b          | e presen         | t, unless disturbe          | ed or problematic. |  |
| Restrictive I | _ayer (if observed):        |           |                  |       |                   |                  |                             |                    |  |
|               | Type:                       |           | None             |       |                   | Hydric           | Soil Present?               |                    | Yes/_ No                               |
|               | Depth (inches):             |           |                  |       |                   |                  |                             |                    |  |
| Remarks:      |                             |           |                  |       |                   | 1                |                             |                    |  |
| Kemarks.      |                             |           |                  |       |                   |                  |                             |                    |  |
|               |                             |           |                  |       |                   |                  |                             |                    |  |
|               |                             |           |                  |       |                   |                  |                             |                    |  |
|               |                             |           |                  |       |                   |                  |                             |                    |  |
|               |                             |           |                  |       |                   |                  |                             |                    |  |
|               |                             |           |                  |       |                   |                  |                             |                    |  |
|               |                             |           |                  |       |                   |                  |                             |                    |  |
|               |                             |           |                  |       |                   |                  |                             |                    |  |
|               |                             |           |                  |       |                   |                  |                             |                    |  |
|               |                             |           |                  |       |                   |                  |                             |                    |  |
|               |                             |           |                  |       |                   |                  |                             |                    |  |
|               |                             |           |                  |       |                   |                  |                             |                    |  |
|               |                             |           |                  |       |                   |                  |                             |                    |  |
|               |                             |           |                  |       |                   |                  |                             |                    |  |
|               |                             |           |                  |       |                   |                  |                             |                    |  |
|               |                             |           |                  |       |                   |                  |                             |                    |  |
|               |                             |           |                  |       |                   |                  |                             |                    |  |
| ]             |                             |           |                  |       |                   |                  |                             |                    |  |
| ]             |                             |           |                  |       |                   |                  |                             |                    |  |
| ]             |                             |           |                  |       |                   |                  |                             |                    |  |
|               |                             |           |                  |       |                   |                  |                             |                    |  |
| L             |                             |           |                  |       |                   |                  |                             |                    |  |



Photo of Sample Plot East



Photo of Sample Plot West



| Project/Site: Flat Creek Solar Pro  | oject           | c               | ity/County: Cana                        | joharie, Montgomery Cou     | unty S                 | ampling Date: 2021-  | Sept-10           |
|---|-----------------|-----------------|---|-----------------------------|------------------------|--|-------------------|
| Applicant/Owner: SunEast  |                 |                 |   | State: NY                   | San                    | npling Point: W-NSD-   | -13_PFO-2         |
| Investigator(s): Nick DeJohn, B   | rian Corrigan   |                 |   | Section, Township,          | , Range: NA            |  |                   |
| Landform (hillslope, terrace, etc.)   | ): Depress      | sion            |   | Local relief (concave, conv | <b>/ex, none):</b> Co  | ncave S  | Slope (%): 0 to 1 |
| Subregion (LRR or MLRA): L  | .RR L           |                 |   | Lat: 42.839363417           | 76 <b>Long:</b> -74    | L5265231934 <b>D</b>   | atum: WGS84       |
| Soil Map Unit Name:Illion silt  | loam, 0 to 3 p  | ercent s        | slopes                                  |                             |                        | NWI classification:  |                   |
| Are climatic/hydrologic condition   | s on the site t | ypical fo       | or this time of yea                     | ır? Yes <u>√</u> No         | )(If no, ex            | plain in Remarks.)   |                   |
| Are Vegetation, Soil,   | or Hydrolo      | ogy             | _ significantly dis                     | turbed? Are "Norm           | al Circumstand         | es" present? Yes   | s No              |
| Are Vegetation, Soil,   | or Hydrolo      | ogy             | _ naturally proble                      | ematic? (If needed,         | , explain any ar       | nswers in Remarks.)  |                   |
|   |                 |                 |   |                             |                        |  |                   |
| SUMMARY OF FINDINGS – A   | Attach site m   | nap sh          | owing samplin                           | g point locations, trai     | nsects, impo           | rtant features, etc  | <u>.</u>          |
| Hydrophytic Vegetation Present  | ? `             | Yes             | _ No                                    |                             |                        |  |                   |
| Hydric Soil Present?  | `               | Yes             | _ No                                    | Is the Sampled Area withi   | in a Wetland?          | Yes  | <u></u> No        |
| Wetland Hydrology Present?  | ,               | Yes             | _ No                                    | If yes, optional Wetland S  | ite ID:                | W-NSD  | )-13              |
| Remarks: (Explain alternative pr  |                 |                 |   | , , , ,                     | <u> </u>               |  |                   |
|   |                 |                 |   |                             |                        |  |                   |
| Wetland Hydrology Indicators: Primary Indicators (minimum of Surface Water (A1) High Water Table (A2) | one is require  | W               | Vater-Stained Lead<br>quatic Fauna (B13 | 3)                          | Surface So<br>Drainage | dicators (minimum of<br>oil Cracks (B6)<br>Patterns (B10)<br>n Lines (B16) | two required)     |
| Saturation (A3)   |                 | N               | 1arl Deposits (B15                      | 5)                          |                        | on Water Table (C2)  |                   |
| Water Marks (B1)  |                 |                 | lydrogen Sulfide (                      |                             | -                      | Burrows (C8)   |                   |
| Sediment Deposits (B2)  |                 |                 |   | eres on Living Roots (C3)   | -                      | n Visible on Aerial Ima  | gery (C9)         |
| Drift Deposits (B3)   |                 |                 | resence of Reduc                        |                             |                        | r Stressed Plants (D1)   | -                 |
| Algal Mat or Crust (B4)   |                 |                 |   | tion in Tilled Soils (C6)   | ∕ Geomorpl             | hic Position (D2)  |                   |
| Iron Deposits (B5)  | Imagon (P7)     |                 | hin Muck Surface                        |                             | Shallow A              | quitard (D3)   |                   |
| <ul><li> Inundation Visible on Aerial I</li><li> Sparsely Vegetated Concave</li></ul>                 |                 | 0               | ther (Explain in R                      | emarks)                     | ✓ Microtopo            | graphic Relief (D4)  |                   |
|   | Surface (Bo)    |                 |   |                             | FAC-Neuti              | ral Test (D5)  |                   |
| Field Observations: Surface Water Present?  | Yes             | No _∡           | Depth (i                                | nches):                     |                        |  |                   |
| Water Table Present?  | <br>Yes         |                 | •                                       |                             | –<br>Wetland Hvdi      | rology Present?  | Yes No            |
| Saturation Present?   | Yes             |                 |   |                             | -                      |  | _ <del>-</del>    |
| (includes capillary fringe)   | 163             | .vo_ <u>/</u> _ | _ Dehrii (i                             |                             | -                      |  |                   |
|   |                 |                 |   |                             |                        |  |                   |
| Describe Recorded Data (stream  | i gauge, monit  | toring w        | vell, aerial photos                     | , previous inspections), if | available:             |  |                   |
| Remarks:  |                 |                 |   |                             |                        |  |                   |
|   |                 |                 |   |                             |                        |  |                   |
|   |                 |                 |   |                             |                        |  |                   |
|   |                 |                 |   |                             |                        |  |                   |
|   |                 |                 |   |                             |                        |  |                   |
|   |                 |                 |   |                             |                        |  |                   |
|   |                 |                 |   |                             |                        |  |                   |
|   |                 |                 |   |                             |                        |  |                   |

| Tree Stratum (Plot size: <u>30 ft</u> )                                       |        | Dominant Species? | Indicator<br>Status | Dominance Test workshee Number of Dominant Spe          |                         | 2            |             |
|---|--------|-------------------|---------------------|---|-------------------------|--------------|-------------|
| . Populus deltoides   | 40     | Yes               | FAC                 | Are OBL, FACW, or FAC:                                  |                         | 3            | (A)         |
| t. Tsuga canadensis   | 25     | Yes               | FACU                | Total Number of Dominar                                 | nt Species              | 5            | (B)         |
| B. Ostrya virginiana  | 10     | No                | FACU                | Across All Strata:                                      |                         |              | (D)         |
| <br>I.  |        |                   |                     | Percent of Dominant Spe                                 | cies That               | 60           | (A/B)       |
| 5.  |        |                   |                     | Are OBL, FACW, or FAC:                                  |                         |              |             |
| j.  |        |                   |                     | Prevalence Index worksho                                |                         |              | _           |
|   |        |                   |                     | Total % Cover of  |                         | Multiply     | -           |
|   | 75     | = Total Cov       | er                  | - OBL species   | 0                       | x 1 = _      | 0           |
| apling/Shrub Stratum (Plot size:15 ft)  |        | -                 |                     | FACW species  | 50                      | x 2 = _      | 100         |
| . Rhamnus cathartica  | 15     | Yes               | FAC                 | FAC species   | 55                      | x 3 = _      | 165         |
|   |        |                   |                     | FACU species  | 60                      | x 4 =        | 240         |
|   |        |                   |                     | - UPL species   | 0                       | x 5 = _      | 0           |
| -   |        |                   |                     | - Column Totals   | 165                     | (A)          | 505 (B)     |
| -   |        |                   |                     | Prevalence Inde   | ex = B/A =              | 3.1          |             |
| -   |        |                   |                     | Hydrophytic Vegetation Ir                               | dicators:               |              |             |
|   |        |                   |                     | 1- Rapid Test for Hyd                                   | drophytic V             | egetation    |             |
| •   | <br>15 | = Total Cov       | or                  | 2 - Dominance Test i                                    | s >50%                  |              |             |
| lorb Stratum (Blot size) E ft )   |        | _ TOTAL COV       | CI                  | 3 - Prevalence Index                                    | is ≤ $3.0^{1}$          |              |             |
| <u>lerb Stratum (</u> Plot size: <u>5 ft</u> )<br>. <i>Onoclea sensibilis</i> | 50     | Yes               | FACW                | 4 - Morphological Ac                                    | laptations <sup>1</sup> | (Provide     | supporting  |
|   | 15     |                   |                     | - data in Remarks or on a s                             | -                       |              |             |
| , ,   |        | Yes               | FACU                | - Problematic Hydrop                                    | -                       |              |             |
| 3. Fragaria virginiana  | 10     | No                | FACU                | - Indicators of hydric soil a                           |                         | -            | gy must be  |
| l   |        |                   |                     | present, unless disturbed                               |                         | matic        |             |
| 5.  |        |                   |                     | Definitions of Vegetation                               |                         |              |             |
| 5   |        |                   |                     | Tree – Woody plants 3 in.                               |                         |              | diameter a  |
| 7   |        |                   |                     | breast height (DBH), rega                               |                         |              |             |
| 3   |        |                   |                     | Sapling/shrub – Woody pl                                |                         |              | BH and      |
| 9   |        |                   |                     | greater than or equal to 3                              |                         |              |             |
| 0   |        |                   |                     | Herb – All herbaceous (no<br>size, and woody plants les |                         |              | gardiess of |
| 1   |        |                   |                     | Woody vines – All woody                                 |                         |              | 20 ft in    |
| 2   |        |                   |                     | height.   | viries great            | er triair 5. | 20 11 111   |
|   | 75     | = Total Cov       | er                  |   |                         |              |             |
| Voody Vine Stratum (Plot size: <u>30 ft</u> )                                 |        |                   |                     | Hydrophytic Vegetation F                                | resent?                 | res IN       | 10          |
|   |        |                   |                     | _   |                         |              |             |
|   |        |                   |                     | _   |                         |              |             |
| 3. <u> </u>   |        |                   |                     | _   |                         |              |             |
| l   |        |                   |                     | _   |                         |              |             |
|   | 0      | = Total Cov       | er                  |   |                         |              |             |

| Profile Des | cription: (Describe          | to the de |                    |       |                   | ndicato          | or confirm the a            | bsence of indicato                            | ors.)                                 |
|-------------|------------------------------|-----------|--------------------|-------|-------------------|------------------|-----------------------------|---|---------------------------------------|
| Depth       | Matrix                       |           | Redox              | Feat  | ures              |                  |                             |   |                                       |
| (inches)    | Color (moist)                | %         | Color (moist)      | %     | Type <sup>1</sup> | Loc <sup>2</sup> | Text                        | ture  | Remarks                               |
| 0 - 6       | 10YR 3/1                     | 100       |                    |       |                   |                  | Silty Cla                   | y Loam  |                                       |
| 6 - 11      | 10YR 3/2                     | 95        | 10YR 4/6           | 5     | C                 | M                | Silty Cla                   |   |                                       |
|             |                              |           |                    | _     |                   |                  |                             | <u>,                                     </u> |                                       |
|             | •                            |           |                    | _     |                   |                  |                             | •   |                                       |
|             |                              |           |                    | _     |                   |                  |                             |   |                                       |
|             |                              |           |                    | _     |                   |                  |                             | <u></u>                                       |                                       |
|             |                              |           |                    | _     |                   |                  |                             |   |                                       |
|             |                              |           |                    | _     |                   |                  |                             |   |                                       |
|             |                              |           |                    | _     |                   |                  |                             |   |                                       |
|             |                              |           |                    |       |                   |                  |                             |   |                                       |
|             |                              |           |                    |       |                   |                  |                             |   |                                       |
|             | •                            |           |                    | _     |                   |                  |                             | -   |                                       |
|             |                              |           |                    | _     |                   |                  |                             |   | -                                     |
| 1T C - C    | Composition D.               | Danlatia  | DM - Dadward       |       |                   |                  | Canal Cusins 21             | anations DI — Dave                            | Limina M = Matuir                     |
|             | Concentration, D =           | Depletio  | on, RIVI = Reduced | wat   | rix, IVIS =       | Masked           | Sand Grains. <sup>2</sup> L |   | Lining, M = Matrix.                   |
| Hydric Soil |                              |           |                    |       | _                 |                  |                             | Indicators for P                              | roblematic Hydric Soils³:             |
| Histoso     |                              |           | Polyvalue Bel      |       |                   |                  |                             | 2 cm Muck (                                   | A10) (LRR K, L, MLRA 149B)            |
|             | oipedon (A2)                 |           | Thin Dark Sur      |       |                   |                  | =                           | Coast Prairie                                 | e Redox (A16) <b>(LRR K, L, R)</b>    |
|             | istic (A3)                   |           | Loamy Mucky        |       |                   | (LRR K, I        | -)                          | 5 cm Mucky                                    | Peat or Peat (S3) (LRR K, L, R)       |
|             | en Sulfide (A4)              |           | Loamy Gleyed       |       |                   |                  |                             | Dark Surface                                  | e (S7) <b>(LRR K, L)</b>              |
|             | d Layers (A5)                |           | Depleted Mat       |       |                   |                  |                             | Polyvalue Be                                  | elow Surface (S8) (LRR K, L)          |
|             | d Below Dark Surfa           | ace (A11  |                    |       |                   |                  |                             |   | urface (S9) (LRR K, L)                |
|             | ark Surface (A12)            |           | Depleted Dar       |       |                   | )                |                             |   | nese Masses (F12) (LRR K, L, R)       |
| Sandy N     | Mucky Mineral (S1)           |           | Redox Depre        | ssior | ıs (F8)           |                  |                             | _   | oodplain Soils (F19) (MLRA 149B)      |
| Sandy C     | Gleyed Matrix (S4)           |           |                    |       |                   |                  |                             |   | c (TA6) <b>(MLRA 144A, 145, 149B)</b> |
| Sandy F     | Redox (S5)                   |           |                    |       |                   |                  |                             | Red Parent I                                  |                                       |
| Strippe     | d Matrix (S6)                |           |                    |       |                   |                  |                             |   | v Dark Surface (TF12)                 |
| Dark Su     | ırface (S7) <b>(LRR R, N</b> | /ILRA 149 | 9B)                |       |                   |                  |                             | Other (Expla                                  |                                       |
|             |                              |           |                    |       |                   |                  |                             | •   |                                       |
| -           | of hydrophytic veg           |           | and wetland hydr   | olog  | y must be         | e presen         | it, unless disturbe         | ed or problematic.                            |                                       |
|             | Layer (if observed):         |           |                    |       |                   |                  |                             |   |                                       |
|             | Type:                        |           | None               |       |                   | Hydric           | Soil Present?               |   | Yes No                                |
|             | Depth (inches):              |           |                    |       |                   |                  |                             |   |                                       |
| Remarks:    |                              |           |                    |       |                   |                  |                             |   |                                       |
| Shallow roo | ck.                          |           |                    |       |                   |                  |                             |   |                                       |
|             |                              |           |                    |       |                   |                  |                             |   |                                       |
|             |                              |           |                    |       |                   |                  |                             |   |                                       |
|             |                              |           |                    |       |                   |                  |                             |   |                                       |
|             |                              |           |                    |       |                   |                  |                             |   |                                       |
|             |                              |           |                    |       |                   |                  |                             |   |                                       |
|             |                              |           |                    |       |                   |                  |                             |   |                                       |
|             |                              |           |                    |       |                   |                  |                             |   |                                       |
|             |                              |           |                    |       |                   |                  |                             |   |                                       |
|             |                              |           |                    |       |                   |                  |                             |   |                                       |
|             |                              |           |                    |       |                   |                  |                             |   |                                       |
|             |                              |           |                    |       |                   |                  |                             |   |                                       |
|             |                              |           |                    |       |                   |                  |                             |   |                                       |
|             |                              |           |                    |       |                   |                  |                             |   |                                       |
|             |                              |           |                    |       |                   |                  |                             |   |                                       |
|             |                              |           |                    |       |                   |                  |                             |   |                                       |
|             |                              |           |                    |       |                   |                  |                             |   |                                       |
|             |                              |           |                    |       |                   |                  |                             |   |                                       |
|             |                              |           |                    |       |                   |                  |                             |   |                                       |
|             |                              |           |                    |       |                   |                  |                             |   |                                       |
|             |                              |           |                    |       |                   |                  |                             |   |                                       |



Photo of Sample Plot North



Photo of Sample Plot East



Photo of Sample Plot West



| Project/Site: Flat Creek Solar Project   | ect                | City/County: Can   | ajoharie, Montgomery Cou                             | nty Sam                    | pling Date: 202   | 1-Sept-10            |  |
|--|--------------------|--|--|----------------------------|---|----------------------|--|
| Applicant/Owner: SunEast   |                    |  | State: NY  | Sampl                      | Sampling Point: W-NSD-13_UPL-1  |                      |  |
| Investigator(s): Nick DeJohn, Bri  | an Corrigan        |  | Section, Township,                                   | Range: NA                  | •   |                      |  |
| Landform (hillslope, terrace, etc.):   | Flat               |  | Local relief (concave, conv                          | ex, none): Undu            | lating  | Slope (%): 0 to 1    |  |
| Subregion (LRR or MLRA): LR  | R L                |  | Lat: 42.839715499                                    | 5 <b>Long:</b> -74.52      | 267484152   | Datum: WGS84         |  |
| Soil Map Unit Name: Illion silt lo   | oam, 0 to 3 perce  | nt slopes  |  | N                          | IWI classification  | n:                   |  |
| Are climatic/hydrologic conditions   | on the site typica | al for this time of ye   | ear? Yes 🟒 No  | (If no, expla              | in in Remarks.)   |                      |  |
| Are Vegetation, Soil,  | or Hydrology _     | significantly di   | sturbed? Are "Norma                                  | al Circumstances'          | ' present? '  | ⁄es _ <b>_∕</b> _ No |  |
| Are Vegetation, Soil,  | or Hydrology _     | naturally prob   | lematic? (If needed,                                 | explain any answ           | ers in Remarks.   | )                    |  |
| SUMMARY OF FINDINGS – At   |                    |  | ng point locations, trar                             | nsects, importa            | ant features, e   | etc.                 |  |
| Hydrophytic Vegetation Present?  | Yes                | No _ <b>_/</b> _   |  |                            |   |                      |  |
| Hydric Soil Present?   | Yes                | No _ <b>_</b> _  | Is the Sampled Area within                           | n a Wetland?               | Yes   | No <u>_</u>          |  |
| Wetland Hydrology Present?   | Yes _              | No _ <b>_</b> _  | If yes, optional Wetland Si                          | te ID:                     |   |                      |  |
|  |                    |  |  |                            |   |                      |  |
| Wetland Hydrology Indicators: Primary Indicators (minimum of company of compa | -<br>-<br>-        | _ Water-Stained Lea<br>_ Aquatic Fauna (B1<br>_ Marl Deposits (B1<br>_ Hydrogen Sulfide<br>_ Oxidized Rhizospl<br>_ Presence of Redu | 13)<br>5)<br>Odor (C1)<br>heres on Living Roots (C3) | Crayfish Burn              | Cracks (B6)<br>terns (B10)<br>nes (B16)<br>Vater Table (C2)<br>rows (C8)<br>sible on Aerial Ir<br>rressed Plants (C | nagery (C9)          |  |
| Iron Deposits (B5)   |                    | _ Thin Muck Surface  | e (C7)   | Geomorphic<br>Shallow Aqui |   |                      |  |
| Inundation Visible on Aerial In  |                    | _ Other (Explain in I  | Remarks)   |                            | aphic Relief (D4)   |                      |  |
| Sparsely Vegetated Concave S   | urface (B8)        |  |  | FAC-Neutral                |   |                      |  |
| Field Observations:  |                    |  |  |                            |   |                      |  |
| Surface Water Present?   | Yes No _           | <u>✓</u> Depth   | (inches):  |                            |   |                      |  |
| Water Table Present?   | Yes No _           | ·  | (inches):  | Wetland Hydrolo            | ogy Present?  | Yes No <b>/</b> _    |  |
|  |                    |  | · ·  | ·                          | оду г гезепа.   |                      |  |
| Saturation Present?  | Yes No _           | <u>√</u> Deptii  | (inches):  |                            |   |                      |  |
| (includes capillary fringe)  |                    |  |  | L                          |   | <del></del>          |  |
| Describe Recorded Data (stream   | gauge, monitorin   | g well, aerial photo   | s, previous inspections), if a                       | available:                 |   |                      |  |
| Remarks:   |                    |  |  |                            |   |                      |  |

| <u>Free Stratum</u> (Plot size: <u>30 ft</u> ) |      | Dominant<br>Species? | Indicator<br>Status | Dominance Test works  Number of Dominant                        | Species That | 1            | (A)            |
|--|------|----------------------|---------------------|---|--------------|--------------|----------------|
| . Ostrya virginiana                            | 15   | Yes                  | FACU                | Are OBL, FACW, or FAC  Total Number of Domi  Across All Strata: |              | 3            | (B)            |
|  |      |                      |                     | Percent of Dominant S Are OBL, FACW, or FAC                     |              | 33.3         | (A/B)          |
|  | . —— |                      |                     | Prevalence Index work   | sheet:       |              |                |
| •  | -    |                      |                     | Total % Cover   | <u>of:</u>   | Multiply I   | <u>Ву:</u>     |
|  |      |                      |                     | OBL species   | 0            | x 1 =        | 0              |
|  | 15   | = Total Cove         | er                  | FACW species  | 0            | x 2 =        | 0              |
| apling/Shrub Stratum (Plot size: 15 ft )       |      |                      |                     | FAC species   | 27           | x 3 =        | 81             |
| . Rhamnus cathartica                           | 10   | <u>Yes</u>           | FAC                 | FACU species  | 75           | x 4 =        | 300            |
|  |      |                      |                     | UPL species   | 10           | x 5 =        | 50             |
| B  |      |                      |                     | Column Totals   | 112          | (A)          | 431 (B)        |
|  |      |                      |                     | Prevalence I  | ndex = B/A = | 3.8          |                |
| o  |      |                      |                     | Hydrophytic Vegetatio   |              |              |                |
| j  |      |                      |                     | 1- Rapid Test for   |              | logotation   |                |
| 7  |      |                      |                     | 2 - Dominance Te  |              | regetation   |                |
|  | 10   | = Total Cove         | er                  | 3 - Prevalence Inc  |              |              |                |
| lerb Stratum (Plot size: <u>5 ft</u> )         |      |                      |                     | 4 - Morphologica  |              | 1 (Drovido d | unnorting      |
| . Solidago canadensis                          | 60   | Yes                  | FACU                | data in Remarks or on   | •            | -            | supporting     |
| . Euthamia graminifolia                        | 12   | No                   | FAC                 | Problematic Hyd   |              |              | olain)         |
| . Daucus carota                                | 5    | No                   | UPL                 | Indicators of hydric so   |              |              |                |
| l. Cornus racemosa                             | 5    | No                   | FAC                 | present, unless disturb   |              |              | y must be      |
| . Asclepias syriaca                            | 5    | No                   | UPL                 | Definitions of Vegetati   |              | matic        |                |
| 5.   |      |                      |                     | Tree – Woody plants 3   |              | r more in c  | liameter a     |
| -  |      |                      |                     | breast height (DBH), re   |              |              | nameter a      |
|  |      |                      |                     | Sapling/shrub - Wood  |              |              | BH and         |
| <u> </u>                                       |      |                      |                     | greater than or equal t   |              |              | 511 4114       |
|  |      |                      |                     | Herb – All herbaceous   |              |              | ardless of     |
|  |      |                      |                     | size, and woody plants  | -            |              | ,              |
| 1  | · —— |                      |                     | Woody vines – All woo   |              |              | 28 ft in       |
| 2  |      |                      |                     | height.   | , ,          |              |                |
|  | 87   | _= Total Cove        | er                  | Hydrophytic Vegetation  | n Present?   | Vac N        | 0 /            |
| Voody Vine Stratum (Plot size: 30 ft )         |      |                      |                     | Trydrophytic vegetatic  | on resent.   | ies iv       | · _ <b>v</b> _ |
| ·  |      |                      |                     | -   |              |              |                |
| <u> </u>                                       |      |                      |                     |   |              |              |                |
| 3  |      |                      |                     |   |              |              |                |
| 4  |      |                      |                     | .   |              |              |                |
| 1  | 0    | = Total Cove         | er                  |   |              |              |                |

|              | cription: (Describe  | to the de |                  |         |                   | indicato         | r or confirm the a          | absence of indicators.)                                |  |
|--------------|----------------------|-----------|------------------|---------|-------------------|------------------|-----------------------------|--|--|
| Depth _      | Matrix               |           | Redox            | Feat    | tures             |                  |                             |  |  |
| (inches)     | Color (moist)        | <u>%</u>  | Color (moist)    | %       | Type <sup>1</sup> | Loc <sup>2</sup> | Texture                     | e Remarks  |  |
| 0 - 14       | 10YR 2/2             | 100       |                  | _       |                   |                  | Silt Loan                   | m  |  |
| 14 - 18      | 10YR 3/2             | 100       |                  | _       |                   |                  | Silt Loan                   | m  |  |
|              |                      |           |                  |         |                   |                  |                             |  |  |
|              |                      |           |                  |         |                   |                  |                             |  |  |
|              |                      |           |                  | _       |                   |                  |                             |  |  |
|              |                      |           |                  | _       |                   |                  | 1                           | <del></del>  |  |
|              |                      |           |                  | _       |                   |                  |                             |  |  |
|              |                      |           |                  | _       |                   |                  | -                           |  |  |
|              |                      |           |                  | _       |                   |                  |                             | <del></del>  |  |
|              |                      |           |                  | _       |                   |                  | -                           |  |  |
|              |                      |           |                  | _       |                   |                  |                             |  |  |
|              |                      |           |                  | _       |                   |                  |                             |  |  |
|              |                      |           |                  | _       |                   |                  |                             |  |  |
| ¹Type: C = C | Concentration, D =   | Depletio  | n, RM = Reduced  | Mat     | rix, MS =         | Masked           | Sand Grains. <sup>2</sup> L | Location: PL = Pore Lining, M = Matrix.                |  |
| Hydric Soil  | Indicators:          |           |                  |         |                   |                  |                             | Indicators for Problematic Hydric Soils <sup>3</sup> : |  |
| Histosol     | l (A1)               |           | Polyvalue Bel    | ow S    | Surface (S        | 8) <b>(LRR</b>   | R, MLRA 149B)               | 2 cm Muck (A10) (LRR K, L, MLRA 149B)                  |  |
| Histic Ep    | oipedon (A2)         |           | Thin Dark Sur    | face    | (S9) <b>(LRF</b>  | R R, MLR         | A 149B)                     | Coast Prairie Redox (A16) (LRR K, L, R)                |  |
| Black Hi     | istic (A3)           |           | Loamy Mucky      | Mir Mir | neral (F1)        | (LRR K,          | L)                          | 5 cm Mucky Peat or Peat (S3) (LRR K, L, R)             |  |
| Hydroge      | en Sulfide (A4)      |           | Loamy Gleyed     |         |                   |                  |                             | Dark Surface (S7) (LRR K, L)                           |  |
|              | d Layers (A5)        |           | Depleted Mat     |         |                   |                  |                             | Polyvalue Below Surface (S8) (LRR K, L)                |  |
|              | d Below Dark Surf    | ace (A11  |                  |         |                   |                  |                             | Thin Dark Surface (S9) (LRR K, L)                      |  |
|              | ark Surface (A12)    |           | Depleted Dar     |         |                   | )                |                             | Iron-Manganese Masses (F12) (LRR K, L, R)              |  |
|              | lucky Mineral (S1)   |           | Redox Depre      | ssior   | ıs (F8)           |                  |                             | Piedmont Floodplain Soils (F19) (MLRA 149B)            |  |
| -            | Gleyed Matrix (S4)   |           |                  |         |                   |                  |                             | Mesic Spodic (TA6) (MLRA 144A, 145, 149B)              |  |
| Sandy R      | Redox (S5)           |           |                  |         |                   |                  |                             | Red Parent Material (F21)                              |  |
| Stripped     | d Matrix (S6)        |           |                  |         |                   |                  |                             | Very Shallow Dark Surface (TF12)                       |  |
| Dark Su      | rface (S7) (LRR R, N | /ILRA 149 | 9B)              |         |                   |                  |                             | Other (Explain in Remarks)                             |  |
| 3Indicators  | of hydronhytic veg   | etation : | and wetland hydr | റിറമ    | v must h          | e nreser         | nt unless disturbe          | ed or problematic.                                     |  |
| -            | Layer (if observed): |           | and Wedana nyan  | 0108    | y mast b          | Preser           | it, ariicss distarbe        | ed of problematic.                                     |  |
|              | •                    | •         | None             |         |                   | Lludric          | Coil Drocont?               | Voc. No. /   |  |
|              | Type:                |           | None             |         |                   | Hydric           | Soil Present?               | Yes No <u>_</u> ✓                                      |  |
|              | Depth (inches):      | _         |                  |         |                   |                  |                             |  |  |
| Remarks:     |                      |           |                  |         |                   |                  |                             |  |  |
|              |                      |           |                  |         |                   |                  |                             |  |  |
|              |                      |           |                  |         |                   |                  |                             |  |  |
|              |                      |           |                  |         |                   |                  |                             |  |  |
|              |                      |           |                  |         |                   |                  |                             |  |  |
|              |                      |           |                  |         |                   |                  |                             |  |  |
|              |                      |           |                  |         |                   |                  |                             |  |  |
|              |                      |           |                  |         |                   |                  |                             |  |  |
|              |                      |           |                  |         |                   |                  |                             |  |  |
|              |                      |           |                  |         |                   |                  |                             |  |  |
|              |                      |           |                  |         |                   |                  |                             |  |  |
|              |                      |           |                  |         |                   |                  |                             |  |  |
|              |                      |           |                  |         |                   |                  |                             |  |  |
|              |                      |           |                  |         |                   |                  |                             |  |  |
|              |                      |           |                  |         |                   |                  |                             |  |  |
|              |                      |           |                  |         |                   |                  |                             |  |  |
|              |                      |           |                  |         |                   |                  |                             |  |  |
|              |                      |           |                  |         |                   |                  |                             |  |  |
|              |                      |           |                  |         |                   |                  |                             |  |  |
|              |                      |           |                  |         |                   |                  |                             |  |  |
|              |                      |           |                  |         |                   |                  |                             |  |  |
|              |                      |           |                  |         |                   |                  |                             |  |  |



Photo of Sample Plot East



Photo of Sample Plot West



| Project/Site: Flat Creek Solar Pro                           | ject                  | City/County: Cana      | ajoharie, Montgomery Cou       | inty        | Sampling Date: 202                        | 21-Sept-10        |  |
|--|-----------------------|------------------------|--------------------------------|-------------|---|-------------------|--|
| Applicant/Owner: SunEast                                     |                       | -                      | State: NY                      |             | Sampling Point: W-NSD-13_UPL-2            |                   |  |
| Investigator(s): Nick DeJohn, B                              | rian Corrigan         |                        | Section, Township,             | Range: NA   | 4   |                   |  |
| Landform (hillslope, terrace, etc.)                          | : Flat                |                        | Local relief (concave, conv    | ex, none):  | Undulating                                | Slope (%): 0 to 1 |  |
| Subregion (LRR or MLRA):                                     | RR L                  |                        | Lat: 42.839331817              | '9 Long:_   | -74.5266412106                            | Datum: WGS84      |  |
| Soil Map Unit Name: Illion silt                              | loam, 0 to 3 percen   | nt slopes              |                                |             | NWI classificatio                         | n:                |  |
| Are climatic/hydrologic condition                            | s on the site typical | l for this time of ye  | ar? Yes 🟒 No                   | (If no      | , explain in Remarks.)                    |                   |  |
| Are Vegetation, Soil,  | or Hydrology _        | significantly dis      | sturbed? Are "Norma            | al Circumst | tances" present?                          | Yes No            |  |
| Are Vegetation, Soil,  | or Hydrology _        | naturally probl        | ematic? (If needed,            | explain any | y answers in Remarks                      | .)                |  |
| SUMMARY OF FINDINGS – A                                      | ? Yes _               | No                     |                                |             | <u> </u>                                  |                   |  |
| Hydric Soil Present?   | Yes _                 | No _ <b>_</b> _        | Is the Sampled Area withi      | n a Wetland | d? Yes                                    | s No <u>_</u> _   |  |
| Wetland Hydrology Present?                                   | Yes _                 | No <b>/</b> _          | If yes, optional Wetland Si    | ite ID:     |   |                   |  |
|  |                       |                        |                                |             |   |                   |  |
| HYDROLOGY  | _                     |                        |                                |             |   |                   |  |
| Wetland Hydrology Indicators:                                |                       |                        |                                |             |   |                   |  |
| Primary Indicators (minimum of                               | one is required; ch   | eck all that apply)    |                                | Secondary   | y Indicators (minimum                     | of two required)  |  |
| Surface Water (A1)   |                       | Water-Stained Lea      | aves (B9)                      |             | e Soil Cracks (B6)                        |                   |  |
| High Water Table (A2)  |                       | Aquatic Fauna (B1      |                                |             | age Patterns (B10)                        |                   |  |
| Saturation (A3)  |                       | Marl Deposits (B1      |                                |             | Trim Lines (B16)                          |                   |  |
| Water Marks (B1)   |                       | Hydrogen Sulfide       | Odor (C1)                      | -           | eason Water Table (C2)<br>sh Burrows (C8) | )                 |  |
| Sediment Deposits (B2)                                       |                       |                        | neres on Living Roots (C3)     | -           | ition Visible on Aerial I                 | magery (C9)       |  |
| Drift Deposits (B3)  | _                     | Presence of Redu       |                                |             | ed or Stressed Plants (I                  |                   |  |
| Algal Mat or Crust (B4)                                      |                       |                        | ction in Tilled Soils (C6)     |             | orphic Position (D2)                      | ,                 |  |
| Iron Deposits (B5)   |                       | Thin Muck Surface      |                                |             | w Aquitard (D3)                           |                   |  |
| Inundation Visible on Aerial I<br>Sparsely Vegetated Concave |                       | Other (Explain in F    | Remarks)                       |             | opographic Relief (D4                     | )                 |  |
| Sparsely vegetated Concave                                   | Surface (Bo)          |                        |                                | FAC-Ne      | eutral Test (D5)                          |                   |  |
| Field Observations:  |                       |                        |                                |             |   |                   |  |
| Surface Water Present?                                       | Yes No                | <u>✓</u> Depth         | (inches):                      | _           |   |                   |  |
| Water Table Present?   | Yes No                | <b>∠</b> Depth         | (inches):                      | Wetland F   | Hydrology Present?                        | Yes No            |  |
| Saturation Present?  | Yes No                | <b>∠</b> Depth         | (inches):                      |             |   |                   |  |
| (includes capillary fringe)                                  |                       |                        |                                | =           |   |                   |  |
| Describe Recorded Data (stream                               | gauge, monitoring     | well, aerial photos    | s, previous inspections), if a | available:  |   |                   |  |
| Describe necorded but (stream                                | - gaage, morneomig    | , weil, derial priotos | э, ргечовэ шэрсскогэ, ш        | avanabic.   |   |                   |  |
| Remarks:   |                       |                        |                                |             |   |                   |  |
|  |                       |                        |                                |             |   |                   |  |
|  |                       |                        |                                |             |   |                   |  |
|  |                       |                        |                                |             |   |                   |  |
|  |                       |                        |                                |             |   |                   |  |
|  |                       |                        |                                |             |   |                   |  |
|  |                       |                        |                                |             |   |                   |  |
|  |                       |                        |                                |             |   |                   |  |

| <u>Free Stratum</u> (Plot size: <u>30 ft</u> ) |          | Dominant Species? | Indicator<br>Status | Dominance Test worksheet:  Number of Dominant Species That   |
|--|----------|-------------------|---------------------|--|
| l. Tsuga canadensis                            | 30       | Yes               | FACU                | Are OBL, FACW, or FAC:   |
| . Ostrya virginiana                            | 20       | Yes               | FACU                | Total Number of Dominant Species 6 (B)   |
| . Tilia americana                              | 15       | Yes               | FACU                | Across All Strata:   |
|  |          |                   |                     | Percent of Dominant Species That 0 (A/I  |
| ·  |          |                   |                     | Are OBL, FACW, or FAC:   |
|  |          |                   |                     | Prevalence Index worksheet:  |
| ·  |          |                   |                     | Total % Cover of: Multiply By:   |
| ·  |          | = Total Cov       | or                  | OBL species 0 x 1 = 0  |
| apling/Shrub Stratum (Plot size:15 ft)         |          | _ TOTAL COV       | CI                  | FACW species 0 x 2 = 0   |
| • • •  | _        | Voc               | FACIL               | FAC species 0 x 3 = 0  |
| . Fagus grandifolia                            | 5        | Yes               | FACU                | FACU species 103 x 4 = 412   |
| . Hamamelis virginiana                         | 3        | Yes               | FACU                | - UPL species 5 x 5 = 25   |
|  |          |                   |                     | - Column Totals 108 (A) 437 (  |
| •  |          |                   |                     | Prevalence Index = B/A =4  |
| •  |          |                   |                     | Hydrophytic Vegetation Indicators:   |
|  |          |                   |                     | 1- Rapid Test for Hydrophytic Vegetation   |
| ·  |          |                   |                     | 2 - Dominance Test is > 50%  |
|  | 8        | = Total Cov       | er                  | 3 - Prevalence Index is ≤ 3.01   |
| lerb Stratum (Plot size: <u>5 ft</u> )         | ·        | _                 |                     | <del></del>  |
| . Parthenocissus quinquefolia                  | 30       | Yes               | FACU                | 4 - Morphological Adaptations¹ (Provide supporti   |
| . Fragaria vesca                               | <u> </u> | No                | UPL                 | data in Remarks or on a separate sheet)  |
|  |          |                   |                     | Problematic Hydrophytic Vegetation¹ (Explain)  |
| 1  | <u> </u> |                   |                     | ¹Indicators of hydric soil and wetland hydrology must  |
|  |          |                   |                     | present, unless disturbed or problematic   |
|  |          |                   |                     | Definitions of Vegetation Strata:  |
| •  |          |                   |                     | Tree – Woody plants 3 in. (7.6 cm) or more in diameter   |
|  |          |                   |                     | breast height (DBH), regardless of height.   |
|  |          |                   |                     | Sapling/shrub – Woody plants less than 3 in. DBH and greater than or equal to 3.28 ft (1 m) tall.          |
|  |          |                   |                     |  |
| 0  |          |                   |                     | <b>Herb</b> – All herbaceous (non-woody) plants, regardless size, and woody plants less than 3.28 ft tall. |
| 1  |          |                   |                     |  |
| 2  |          |                   |                     | Woody vines – All woody vines greater than 3.28 ft in height.  |
|  | 35       | = Total Cov       | er                  |  |
| Voody Vine Stratum (Plot size: <u>30 ft</u> )  |          |                   |                     | Hydrophytic Vegetation Present? Yes No _✓  |
|  |          |                   |                     |  |
|  |          |                   |                     |  |
|  |          |                   |                     |  |
| i.   |          |                   |                     | -  |
| ·  |          | = Total Cov       | or                  | -  |
|  |          | - Total Cov       | CI                  |  |

| Profile Description: (Describe to the |                        |                 | ndicator or confi  | irm the absence | e of indicators.)                                 |
|---------------------------------------|------------------------|-----------------|--------------------|-----------------|---|
| Depth Matrix                          | Redox F                |                 |                    |                 |   |
| (inches) Color (moist) %              | Color (moist)          | % Type¹         | Loc <sup>2</sup> T | exture          | Remarks   |
| 0 - 13 10YR 2/2 100                   |                        |                 |                    | Loam            |   |
|                                       |                        |                 |                    |                 |   |
|                                       |                        |                 |                    |                 |   |
|                                       |                        |                 |                    |                 |   |
|                                       |                        |                 |                    |                 |   |
| <u> </u>                              |                        |                 |                    |                 |   |
|                                       |                        |                 |                    |                 |   |
|                                       |                        |                 |                    |                 |   |
|                                       |                        |                 |                    |                 |   |
|                                       |                        |                 |                    |                 |   |
|                                       |                        |                 |                    |                 |   |
|                                       |                        |                 |                    |                 |   |
|                                       |                        |                 |                    | j               |   |
| 1Type C = Concentration D = Deplet    | ion DM - Doduced M     | Antrix MC -     | Masked Cand Cr     | ning 2l ocatio  | nı Di – Doro Lining M – Matriy                    |
| ¹Type: C = Concentration, D = Depleti | ion, Rivi = Reduced iv | riatrix, IVIS = | Masked Sand Gr     |                 | n: PL = Pore Lining, M = Matrix.                  |
| Hydric Soil Indicators:               |                        |                 |                    |                 | ators for Problematic Hydric Soils <sup>3</sup> : |
| Histosol (A1)                         | Polyvalue Belov        | -               |                    | 149B) 2         | cm Muck (A10) (LRR K, L, MLRA 149B)               |
| Histic Epipedon (A2)                  | Thin Dark Surfa        |                 |                    | C               | Coast Prairie Redox (A16) (LRR K, L, R)           |
| Black Histic (A3)                     | Loamy Mucky N          |                 | (LRR K, L)         | 5               | cm Mucky Peat or Peat (S3) (LRR K, L, R)          |
| Hydrogen Sulfide (A4)                 | Loamy Gleyed I         |                 |                    | 0               | Park Surface (S7) (LRR K, L)                      |
| Stratified Layers (A5)                | Depleted Matri         |                 |                    | P               | olyvalue Below Surface (S8) (LRR K, L)            |
| Depleted Below Dark Surface (A1       |                        |                 |                    |                 | hin Dark Surface (S9) <b>(LRR K, L)</b>           |
| Thick Dark Surface (A12)              | Depleted Dark          |                 |                    |                 | ron-Manganese Masses (F12) (LRR K, L, R)          |
| Sandy Mucky Mineral (S1)              | Redox Depress          | sions (F8)      |                    |                 | riedmont Floodplain Soils (F19) (MLRA 149B)       |
| Sandy Gleyed Matrix (S4)              |                        |                 |                    | · <del></del>   | Mesic Spodic (TA6) (MLRA 144A, 145, 149B)         |
| Sandy Redox (S5)                      |                        |                 |                    |                 | Red Parent Material (F21)                         |
| Stripped Matrix (S6)                  |                        |                 |                    |                 | 'ery Shallow Dark Surface (TF12)                  |
| Dark Surface (S7) (LRR R, MLRA 14     | 49B)                   |                 |                    |                 | Other (Explain in Remarks)                        |
| 21                                    |                        |                 |                    |                 | •   |
| 3Indicators of hydrophytic vegetation | i and wetland nydrol   | logy must be    | i present, uniess  | disturbed or p  | robiematic.                                       |
| Restrictive Layer (if observed):      |                        |                 |                    | _               |   |
| Type:                                 | None                   |                 | Hydric Soil Pres   | ent?            | Yes No/_  |
| Depth (inches):                       |                        |                 |                    |                 |   |
| Remarks:                              |                        |                 |                    |                 |   |
| Shallow roots.                        |                        |                 |                    |                 |   |
|                                       |                        |                 |                    |                 |   |
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|                                       |                        |                 |                    |                 |   |
|                                       |                        |                 |                    |                 |   |



Photo of Sample Plot North



Photo of Sample Plot South



| Project/Site: Flat Creek Solar Pro  | ject                                  | City/County: Cana        | ajoharie, Montgomery Cou     | unty             | Sampling Date: 202        | 21-Sept-10        |
|-------------------------------------|---------------------------------------|--------------------------|------------------------------|------------------|---------------------------|-------------------|
| Applicant/Owner: SunEast            |                                       |                          | State: NY                    |                  | Sampling Point: W-NS      | SD-14_PEM-2       |
| Investigator(s): Nick DeJohn, B     | rian Corrigan                         |                          | Section, Township            | , Range: NA      | 4                         |                   |
| Landform (hillslope, terrace, etc.) | : Depression                          |                          | Local relief (concave, conv  | vex, none):_     | Concave                   | Slope (%): 0 to 1 |
| Subregion (LRR or MLRA): L          | RR L                                  |                          | Lat: 42.843541503            | B Long:          | -74.5332924184            | Datum: WGS84      |
| Soil Map Unit Name: Burdett o       | channery silt loam,                   | 3 to 8 percent slop      | es                           |                  | NWI classification        | n:                |
| Are climatic/hydrologic condition   |                                       | -                        |                              | o (If no         | , explain in Remarks.)    |                   |
| Are Vegetation, Soil,               |                                       | significantly dis        |                              |                  | •                         | Yes 🟒 No          |
| Are Vegetation, Soil,               | or Hydrology _                        | naturally probl          | ematic? (If needed,          | , explain any    | y answers in Remarks.     | )                 |
|                                     |                                       |                          |                              |                  |                           |                   |
| SUMMARY OF FINDINGS – A             | kttach site map s                     | showing samplir          | ng point locations, tra      | nsects, im       | portant features, e       | etc.              |
| Hydrophytic Vegetation Present      | ? Yes                                 | ✓_ No                    |                              |                  |                           |                   |
| Hydric Soil Present?                |                                       | ✓_ No                    | Is the Sampled Area with     | in a Wetland     | d? Yes                    | No                |
|                                     |                                       |                          | i '                          |                  |                           |                   |
| Wetland Hydrology Present?          | · · · · · · · · · · · · · · · · · · · | ✓ No                     | If yes, optional Wetland S   | site iD:         | VV-IN                     | SD-14             |
| Remarks: (Explain alternative pro   | ocedures here or in                   | a separate report        |                              |                  |                           |                   |
| Covertype is PEM.                   |                                       |                          |                              |                  |                           |                   |
|                                     |                                       |                          |                              |                  |                           |                   |
|                                     |                                       |                          |                              |                  |                           |                   |
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|                                     |                                       |                          |                              |                  |                           |                   |
|                                     |                                       |                          |                              |                  |                           |                   |
|                                     |                                       |                          |                              |                  |                           |                   |
| HYDROLOGY                           |                                       |                          |                              |                  |                           |                   |
| Wetland Hydrology Indicators:       |                                       |                          |                              |                  |                           |                   |
| Primary Indicators (minimum of      | one is required; ch                   | ack all that anniv)      |                              | Secondary        | Indicators (minimum       | of two required)  |
| Filmary indicators (minimum or      | one is required, cri                  | еск ан спасарріу)        |                              | _                | e Soil Cracks (B6)        | or two required)  |
| Surface Water (A1)                  |                                       | Water-Stained Lea        | ives (B9)                    |                  | ge Patterns (B10)         |                   |
| High Water Table (A2)               |                                       | _ Aquatic Fauna (B1      | 3)                           |                  | rim Lines (B16)           |                   |
| ⁄ Saturation (A3)                   |                                       | Marl Deposits (B1        | 5)                           |                  | ason Water Table (C2)     |                   |
| Water Marks (B1)                    |                                       | Hydrogen Sulfide         | Odor (C1)                    | -                | h Burrows (C8)            |                   |
| Sediment Deposits (B2)              | _                                     | Oxidized Rhizosph        | neres on Living Roots (C3)   | -                |                           | magany (CO)       |
| Drift Deposits (B3)                 |                                       | Presence of Reduc        | ced Iron (C4)                |                  | tion Visible on Aerial Ir |                   |
| Algal Mat or Crust (B4)             |                                       | Recent Iron Reduc        | tion in Tilled Soils (C6)    |                  | d or Stressed Plants (D   | )1)               |
| Iron Deposits (B5)                  |                                       | Thin Muck Surface        |                              |                  | orphic Position (D2)      |                   |
| Inundation Visible on Aerial I      |                                       | -<br>Other (Explain in F |                              |                  | v Aquitard (D3)           |                   |
| Sparsely Vegetated Concave          |                                       | (                        | ,                            |                  | opographic Relief (D4)    |                   |
| sparsely regetated conteave         |                                       |                          |                              | <u></u> ✓ FAC-Ne | eutral Test (D5)          |                   |
| Field Observations:                 |                                       |                          |                              |                  |                           |                   |
| Surface Water Present?              | Yes No                                | <u>∠</u> Depth           | (inches):                    | _                |                           |                   |
| Water Table Present?                | Yes No                                | <u>∠</u> Depth           | (inches):                    | Wetland H        | lydrology Present?        | Yes No            |
| Saturation Present?                 | Yes _✓_ No                            | Depth                    | (inches): 12                 |                  |                           |                   |
| (includes capillary fringe)         |                                       |                          |                              | _                |                           |                   |
|                                     |                                       |                          |                              |                  |                           |                   |
| Describe Recorded Data (stream      | i gauge, monitoring                   | g well, aerial photos    | s, previous inspections), if | avallable:       |                           |                   |
|                                     |                                       |                          |                              |                  |                           |                   |
|                                     |                                       |                          |                              |                  |                           |                   |
| Remarks:                            |                                       |                          |                              |                  |                           |                   |
| Remarks.                            |                                       |                          |                              |                  |                           |                   |
|                                     |                                       |                          |                              |                  |                           |                   |
|                                     |                                       |                          |                              |                  |                           |                   |
|                                     |                                       |                          |                              |                  |                           |                   |
|                                     |                                       |                          |                              |                  |                           |                   |
|                                     |                                       |                          |                              |                  |                           |                   |
|                                     |                                       |                          |                              |                  |                           |                   |
|                                     |                                       |                          |                              |                  |                           |                   |
|                                     |                                       |                          |                              |                  |                           |                   |

| <u>Tree Stratum</u> (Plot size: <u>30 ft</u> )<br>1. |      | Dominant<br>Species? | Indicator<br>Status | Dominance Test works Number of Dominant S Are OBL, FACW, or FAC | pecies That    | 3            | (A)        |
|--|------|----------------------|---------------------|---|----------------|--------------|------------|
| 2.   |      |                      |                     | Total Number of Domii Across All Strata:                        |                | 3            | (B)        |
| 3.<br>4.   |      |                      |                     | Percent of Dominant S  Are OBL, FACW, or FAC                    |                | 100          | (A/B)      |
| 5  |      |                      |                     | Prevalence Index work   |                |              |            |
| 6  |      |                      |                     | Total % Cover   |                | Multiply I   | By:        |
| 7  |      |                      |                     | OBL species   | 50             | x 1 =        | 50         |
|  | 0    | = Total Cove         | er                  | FACW species  | 56             | x 2 =        | 112        |
| Sapling/Shrub Stratum (Plot size: <u>15 ft</u> )     |      |                      |                     | FAC species   | 0              | x 3 =        | 0          |
| 1  | - —— |                      |                     | FACU species  | 0              | x 4 =        | 0          |
| 2  |      |                      |                     | UPL species   | 0              | x 5 =        | 0          |
| 3  |      |                      |                     | Column Totals   | 106            | (A)          | 162 (B)    |
| 4  |      |                      |                     | Prevalence Ir   |                | 1.5          | (-)        |
| 5  |      |                      |                     | Hydrophytic Vegetation  |                |              |            |
| 5  |      |                      |                     | 1- Rapid Test for I   |                | /egetation   |            |
| 7  |      |                      |                     | ✓ 2 - Dominance Te  |                | egetation    |            |
|  | 0    | = Total Cove         | er                  | ✓ 3 - Prevalence Inc  |                |              |            |
| <u>Herb Stratum</u> (Plot size: <u>5 ft</u> )        |      |                      |                     | 4 - Morphological   |                | (Provide s   | unnorting  |
| 1. <i>Epilobium lactiflorum</i>                      | 30   | Yes                  | FACW                | data in Remarks or on   |                |              | аррогип    |
| 2. <i>Lythrum salicaria</i>                          | 20   | Yes                  | OBL                 | Problematic Hydr  | •              |              | olain)     |
| 3. Eupatorium perfoliatum                            | 18   | Yes                  | FACW                | ¹Indicators of hydric so  |                |              |            |
| 4. <i>Leersia oryzoides</i>                          | 15   | No                   | OBL                 | present, unless disturb   |                |              | ,          |
| 5. <i>Carex lurida</i>                               | 10   | No                   | OBL                 | Definitions of Vegetation                                       | on Strata:     |              |            |
| 6. Onoclea sensibilis                                | 8    | No                   | FACW                | Tree – Woody plants 3   |                | more in c    | iameter a  |
| 7. Carex vulpinoidea                                 | 5    | No                   | OBL                 | breast height (DBH), re   |                |              |            |
| 8.   |      |                      |                     | Sapling/shrub - Woody   | plants less t  | han 3 in. D  | BH and     |
| 9.   |      |                      |                     | greater than or equal t   | o 3.28 ft (1 m | ) tall.      |            |
| 10.  |      |                      |                     | Herb – All herbaceous   |                |              | ardless of |
| 11.  |      |                      |                     | size, and woody plants  |                |              |            |
| 12.  |      |                      |                     | Woody vines – All wood  | dy vines grea  | er than 3.   | 28 ft in   |
|  | 106  | = Total Cove         | er                  | height.   |                |              |            |
| Woody Vine Stratum (Plot size: <u>30 ft</u> )        |      | _                    |                     | Hydrophytic Vegetatio   | n Present? `   | ∕es <u> </u> | 0          |
| 1  |      |                      |                     | -   |                |              |            |
| 2.   |      |                      |                     | -   |                |              |            |
| 3  |      |                      |                     | -   |                |              |            |
| 4  |      |                      |                     | .   |                |              |            |
|  | 0    | _= Total Cove        | er                  |   |                |              |            |

| Profile Desc  | cription: (Describe t | to the  | depth needed to d | locun   | nent the i        | indicato       | r or confirm the          | absence of i | ndicators.)  |
|---------------|-----------------------|---------|-------------------|---------|-------------------|----------------|---------------------------|--------------|--|
| Depth         | Matrix                |         | Redox             | Feat    | ures              |                |                           |              |  |
| (inches)      | Color (moist)         | %       | Color (moist)     | %       | Type <sup>1</sup> | Loc2           | Textur                    | e            | Remarks  |
| 0 - 20        | 10YR 4/1              | 90      | 10YR 5/8          | 10      | C                 | M              | Clay Loa                  | am           |  |
|               |                       |         |                   |         |                   |                |                           |              |  |
|               |                       | _       |                   |         |                   |                |                           |              |  |
|               |                       | _       |                   | _       |                   |                |                           |              |  |
|               |                       | -       |                   | _       |                   |                |                           |              |  |
|               |                       |         |                   |         |                   |                |                           |              |  |
|               |                       |         |                   |         |                   |                |                           |              |  |
|               |                       |         |                   |         |                   |                |                           |              |  |
|               |                       | . —     |                   |         |                   |                |                           |              |  |
|               |                       |         |                   |         |                   |                |                           |              |  |
|               |                       |         |                   |         |                   |                |                           |              |  |
|               |                       |         |                   |         |                   |                |                           |              |  |
|               |                       |         |                   |         |                   |                |                           |              |  |
| ¹Type: C = C  | oncentration, D = [   | Deplet  | ion, RM = Reduce  | d Mat   | rix, MS =         | Masked         | Sand Grains. <sup>2</sup> | Location: PL | = Pore Lining, M = Matrix.   |
| Hydric Soil   | Indicators:           |         |                   |         |                   |                |                           | Indicator    | rs for Problematic Hydric Soils <sup>3</sup> :                                     |
| Histoso       |                       |         | Polyvalue Be      | elow S  | Surface (S        | 8) <b>(LRR</b> | R, MLRA 149B)             |              | •  |
|               | oipedon (A2)          |         | Thin Dark Su      |         |                   |                |                           |              | Muck (A10) (LRR K, L, MLRA 149B)   |
| Black Hi      | •                     |         | Loamy Muck        |         |                   |                |                           |              | t Prairie Redox (A16) (LRR K, L, R)  |
| Hydroge       | en Sulfide (A4)       |         | Loamy Gleye       | d Ma    | trix (F2)         |                |                           |              | Mucky Peat or Peat (S3) (LRR K, L, R)  |
| Stratifie     | d Layers (A5)         |         | _✓ Depleted Ma    | atrix ( | F3)               |                |                           |              | Surface (S7) (LRR K, L)  |
| Deplete       | d Below Dark Surfa    | ice (A1 | 1) Redox Dark     | Surfa   | ce (F6)           |                |                           |              | value Below Surface (S8) (LRR K, L)  |
| Thick Da      | ark Surface (A12)     |         | Depleted Da       | rk Su   | rface (F7)        | )              |                           |              | Dark Surface (S9) <b>(LRR K, L)</b><br>Manganese Masses (F12) <b>(LRR K, L, R)</b> |
| Sandy N       | lucky Mineral (S1)    |         | Redox Depr        | essior  | ıs (F8)           |                |                           |              |  |
| Sandy G       | Gleyed Matrix (S4)    |         |                   |         |                   |                |                           |              | mont Floodplain Soils (F19) (MLRA 149B)  |
| Sandy R       | tedox (S5)            |         |                   |         |                   |                |                           |              | Spodic (TA6) (MLRA 144A, 145, 149B)  |
| Stripped      | d Matrix (S6)         |         |                   |         |                   |                |                           |              | Parent Material (F21)  |
| Dark Su       | rface (S7) (LRR R, M  | ILRA 1  | 49B)              |         |                   |                |                           | -            | Shallow Dark Surface (TF12)  |
|               |                       |         |                   |         |                   |                |                           |              | r (Explain in Remarks)   |
| -             | of hydrophytic vege   |         | n and wetland hyd | rolog   | y must b          | e preser       | nt, unless disturb        | ed or probl  | ematic.  |
| Restrictive I | _ayer (if observed):  |         |                   |         |                   |                |                           |              |  |
|               | Type:                 |         | None              |         |                   | Hydric         | Soil Present?             |              | Yes No   |
|               | Depth (inches):       |         |                   |         |                   |                |                           |              |  |
| Remarks:      |                       |         |                   |         |                   |                |                           |              |  |
|               |                       |         |                   |         |                   |                |                           |              |  |
|               |                       |         |                   |         |                   |                |                           |              |  |
|               |                       |         |                   |         |                   |                |                           |              |  |
|               |                       |         |                   |         |                   |                |                           |              |  |
|               |                       |         |                   |         |                   |                |                           |              |  |
|               |                       |         |                   |         |                   |                |                           |              |  |
|               |                       |         |                   |         |                   |                |                           |              |  |
|               |                       |         |                   |         |                   |                |                           |              |  |
|               |                       |         |                   |         |                   |                |                           |              |  |
|               |                       |         |                   |         |                   |                |                           |              |  |
|               |                       |         |                   |         |                   |                |                           |              |  |
|               |                       |         |                   |         |                   |                |                           |              |  |
|               |                       |         |                   |         |                   |                |                           |              |  |
|               |                       |         |                   |         |                   |                |                           |              |  |
|               |                       |         |                   |         |                   |                |                           |              |  |
|               |                       |         |                   |         |                   |                |                           |              |  |
|               |                       |         |                   |         |                   |                |                           |              |  |
|               |                       |         |                   |         |                   |                |                           |              |  |
|               |                       |         |                   |         |                   |                |                           |              |  |
|               |                       |         |                   |         |                   |                |                           |              |  |
|               |                       |         |                   |         |                   |                |                           |              |  |

Soil Photos



Photo of Sample Plot East



Photo of Sample Plot // West



| Project/Site: Flat Creek Solar Pro                     | oject              | City/County: Cana                      | ajoharie, Montgomery Cou     | inty Sampling D                           | <b>Date:</b> 2021-Sept-10      |  |  |
|--|--------------------|--|------------------------------|---|--------------------------------|--|--|
| Applicant/Owner: SunEast                               |                    |  | State: NY                    | Sampling Poi                              | Sampling Point: W-NSD-14_PFO-1 |  |  |
| Investigator(s): Nick DeJohn, B                        | rian Corrigan      |  | Section, Township,           | Range: NA                                 |                                |  |  |
| Landform (hillslope, terrace, etc.)                    | : Toe              |  | Local relief (concave, conv  | /ex, none): Concave                       | Slope (%): 1 to 3              |  |  |
| Subregion (LRR or MLRA): L                             | RR L               | <del>.</del>                           | Lat: 42.841929118            | 2 Long: -74.5352066                       | 775 <b>Datum:</b> WGS84        |  |  |
| Soil Map Unit Name: Burdett                            | hannery silt loar  | m, 3 to 8 percent slop                 | es                           | NWI cla                                   | ssification:                   |  |  |
| Are climatic/hydrologic condition                      | s on the site typi | ical for this time of yea              | ar? Yes <u></u> ✓ No         | (If no, explain in R                      | emarks.)                       |  |  |
| Are Vegetation, Soil,                                  | or Hydrolog        | / significantly dis                    | sturbed? Are "Norm           | al Circumstances" prese                   | nt? Yes 🔽 No                   |  |  |
| Are Vegetation, Soil,                                  | or Hydrolog        | / naturally probl                      | ematic? (If needed,          | explain any answers in                    | Remarks.)                      |  |  |
| CLIMANA A DV OF FINIDINGS                              |                    |  |                              |   | -1                             |  |  |
| SUMMARY OF FINDINGS – A Hydrophytic Vegetation Present |                    |  | ng point locations, trai     | nsects, important rea                     | atures, etc.                   |  |  |
| , , , ,  |                    | 5 No                                   | ls the Campled Area with     | in a Matland?                             | Voc. / No.                     |  |  |
| Hydric Soil Present?                                   |                    | s No                                   | Is the Sampled Area with     |   | Yes No                         |  |  |
| Wetland Hydrology Present?                             | Yes                | S No                                   | If yes, optional Wetland S   | ite ID:                                   | W-NSD-14                       |  |  |
|  |                    |  |                              |   |                                |  |  |
| HYDROLOGY  |                    |  |                              |   |                                |  |  |
| Wetland Hydrology Indicators:                          |                    |  |                              |   |                                |  |  |
| Primary Indicators (minimum of                         | one is required;   | check all that apply)                  |                              | Secondary Indicators (n                   | minimum of two required)       |  |  |
| Surface Water (A1)                                     |                    | Water-Stained Lea                      | aves (B9)                    | Surface Soil Cracks                       |                                |  |  |
| High Water Table (A2)                                  |                    | Aquatic Fauna (B1                      |                              | Drainage Patterns (I                      |                                |  |  |
| ✓ Saturation (A3)                                      |                    | Marl Deposits (B1                      | 5)                           | Moss Trim Lines (B1<br>Dry-Season Water T |                                |  |  |
| Water Marks (B1)                                       |                    | Hydrogen Sulfide                       |                              | Crayfish Burrows (C                       |                                |  |  |
| Sediment Deposits (B2)                                 |                    | · ·                                    | neres on Living Roots (C3)   |   | n Aerial Imagery (C9)          |  |  |
| Drift Deposits (B3)                                    |                    | Presence of Reduc                      |                              | Stunted or Stressed                       |                                |  |  |
| Algal Mat or Crust (B4)<br>Iron Deposits (B5)          |                    | Recent from Reduc<br>Thin Muck Surface | tion in Tilled Soils (C6)    | ✓ Geomorphic Positio                      | n (D2)                         |  |  |
| Inundation Visible on Aerial I                         | magery (B7)        | Other (Explain in F                    |                              | Shallow Aquitard (D                       |                                |  |  |
| Sparsely Vegetated Concave                             |                    |  | · · · · · ·                  | Microtopographic R<br>FAC-Neutral Test (D |                                |  |  |
| Field Observations:                                    |                    |  |                              |   |                                |  |  |
| Surface Water Present?                                 | Yes No             | _ <b>✓</b> Depth                       | (inches):                    |   |                                |  |  |
| Water Table Present?                                   | Yes No             | ·                                      | (inches):                    | -<br> <br>  Wetland Hydrology Pre         | esent? Yes No                  |  |  |
| Saturation Present?                                    | Yes <u></u> ✓ No   |  | (inches): 8                  | -   |                                |  |  |
| (includes capillary fringe)                            |                    |  |                              | -   |                                |  |  |
| Describe Recorded Data (stream                         | n gauge, monitor   | ing well, aerial photos                | s, previous inspections), if | available:                                |                                |  |  |
| bescribe recorded bata (stream                         | r gaage, monitor   | ing weil, deridi priotos               | s, previous inspections, in  | available.                                |                                |  |  |
| Remarks:   |                    |  |                              |   |                                |  |  |
|  |                    |  |                              |   |                                |  |  |
|  |                    |  |                              |   |                                |  |  |
|  |                    |  |                              |   |                                |  |  |
|  |                    |  |                              |   |                                |  |  |
|  |                    |  |                              |   |                                |  |  |
|  |                    |  |                              |   |                                |  |  |
|  |                    |  |                              |   |                                |  |  |

| Tree Stratum (Plot size: <u>30 ft</u> )            |                 | Dominant Species? | Indicator<br>Status | Dominance Test works  Number of Dominant          |                | 5            | (4)         |
|--|-----------------|-------------------|---------------------|---|----------------|--------------|-------------|
| . Acer rubrum                                      | 50              | Yes               | FAC                 | Are OBL, FACW, or FAC                             |                |              | (A)         |
| . Ulmus rubra                                      | 15              | Yes               | FAC                 | Total Number of Dom Across All Strata:            | inant Species  | 6            | (B)         |
|  |                 |                   |                     | Percent of Dominant S                             | Species That   |              |             |
| l  |                 |                   |                     | Are OBL, FACW, or FAC                             |                | 83.3         | (A/B)       |
| 5.<br>-  |                 |                   |                     | Prevalence Index work                             | rsheet:        | ·            |             |
| •  |                 |                   |                     | Total % Cove                                      | <u>r of:</u>   | Multiply I   | <u>Зу:</u>  |
| ·  |                 |                   |                     | OBL species                                       | 0              | x 1 =        | 0           |
|  | 65              | = Total Cov       | er                  | FACW species                                      | 60             | x 2 =        | 120         |
| apling/Shrub Stratum (Plot size: 15 ft )           |                 |                   |                     | FAC species                                       | 85             | x 3 =        | 255         |
| . Cornus racemosa                                  | 10              | Yes               | FAC                 | FACU species                                      | 20             | x 4 =        | 80          |
| . Lonicera morrowii                                | 10              | Yes               | FACU                | UPL species                                       | 0              | x 5 =        | 0           |
| . Crataegus crus-galli                             | 5               | Yes               | FAC                 | Column Totals                                     | 165            | (A)          | 455 (B)     |
|  |                 |                   |                     | Prevalence I                                      | ndex = B/A =   | _            | (-)         |
|  |                 |                   |                     | Hydrophytic Vegetation                            |                |              |             |
| ·  |                 |                   |                     | ' ' '   |                | logotation   |             |
| · .  |                 |                   |                     | 1- Rapid Test for                                 |                | egetation    |             |
|  | 25              | = Total Cov       | er                  | 2 - Dominance Te                                  |                |              |             |
| lerb Stratum (Plot size: <u>5 ft</u> )             |                 |                   |                     | ✓ 3 - Prevalence In                               |                | (Duantiala a |             |
| . Onoclea sensibilis                               | 60              | Yes               | FACW                | 4 - Morphologica<br>data in Remarks or on         |                | -            | supporting  |
| . Lonicera morrowii                                | 10              | No                | FACU                | Problematic Hyd                                   |                |              | olain)      |
| . Equisetum arvense                                |                 | No                | FAC                 | -   |                |              |             |
|  |                 |                   |                     | Indicators of hydric so<br>present, unless distur |                | -            | gy must be  |
| ··<br>5.   |                 |                   |                     | *   |                | Hatit        |             |
| :  |                 |                   |                     | Definitions of Vegetati                           |                |              |             |
|  |                 |                   |                     | Tree – Woody plants 3<br>breast height (DBH), re  |                |              | nameter a   |
|  |                 |                   |                     | Sapling/shrub – Wood                              |                |              | DILand      |
| 3  |                 |                   |                     | greater than or equal                             |                |              | вп апи      |
| ).   |                 |                   |                     | Herb – All herbaceous                             |                |              | ardlace of  |
| 0  |                 |                   |                     | size, and woody plants                            |                |              | ai uless oi |
| 1  |                 |                   |                     | Woody vines – All woo                             |                |              | 28 ft in    |
| 2  |                 |                   |                     | height.   | dy vines great | .cr triarr 5 | 2010111     |
|  | 75              | = Total Cov       | er                  |   | P              | / / N        | _           |
| Voody Vine Stratum (Plot size: <u>30 ft</u> )      |                 |                   |                     | Hydrophytic Vegetation                            | on Present?    | res <u> </u> | 0           |
| ·  |                 |                   |                     |   |                |              |             |
|  |                 |                   |                     |   |                |              |             |
| 3  |                 |                   |                     |   |                |              |             |
| ı.   |                 |                   |                     |   |                |              |             |
|  | 0               | = Total Cov       | er                  | `   |                |              |             |
| Remarks: (Include photo numbers here or on a s     | enarate sheet ) | -                 |                     |   |                |              |             |
| terraines. (include prioto flambers here of on a s | eparate sneet.) |                   |                     |   |                |              |             |
|  |                 |                   |                     |   |                |              |             |
|  |                 |                   |                     |   |                |              |             |
|  |                 |                   |                     |   |                |              |             |
|  |                 |                   |                     |   |                |              |             |
|  |                 |                   |                     |   |                |              |             |
|  |                 |                   |                     |   |                |              |             |
|  |                 |                   |                     |   |                |              |             |

| Profile Des  | cription: (Describe          | to the de | =                |         |                   | ndicator         | or confirm the a            | bsence of indicato | ors.)                                 |
|--------------|------------------------------|-----------|------------------|---------|-------------------|------------------|-----------------------------|--------------------|---------------------------------------|
| Depth        | Matrix                       |           | Redox            | Feat    | tures             |                  |                             |                    |                                       |
| (inches)     | Color (moist)                | %         | Color (moist)    | %       | Type <sup>1</sup> | Loc <sup>2</sup> | Text                        | ture               | Remarks                               |
| 0 - 5        | 10YR 3/2                     | 100       |                  |         |                   |                  | Silt L                      | .oam               |                                       |
| 5 - 14       | 10YR 3/2                     | 95        | 5YR 4/6          | 5       | С                 | M                | Silty Cla                   | ıy Loam            |                                       |
| 14 - 20      | 10YR 4/2                     | 95        | 5YR 4/6          | 5       | C                 | M                | Silty Cla                   | _                  |                                       |
|              |                              |           |                  | _       |                   |                  |                             |                    |                                       |
|              |                              |           |                  | _       |                   |                  |                             |                    |                                       |
|              |                              |           |                  | _       |                   |                  |                             | _                  |                                       |
|              |                              |           |                  |         |                   |                  |                             |                    |                                       |
|              |                              |           |                  |         |                   |                  |                             | -                  |                                       |
|              |                              |           |                  |         |                   |                  |                             |                    |                                       |
|              |                              |           |                  |         |                   |                  |                             |                    |                                       |
|              |                              |           |                  | _       |                   |                  |                             |                    |                                       |
|              |                              |           |                  | _       |                   |                  |                             |                    |                                       |
|              |                              |           |                  |         |                   |                  |                             |                    |                                       |
| ¹Type: C = 0 | Concentration, D =           | Depletio  | n, RM = Reduced  | Mati    | rix, MS =         | Masked           | Sand Grains. <sup>2</sup> L | ocation: PL = Pore | e Lining, M = Matrix.                 |
| Hydric Soil  | Indicators:                  |           |                  |         |                   |                  |                             | Indicators for Pr  | roblematic Hydric Soils³:             |
| Histoso      | l (A1)                       |           | Polyvalue Bel    | ow S    | urface (S         | 8) <b>(LRR I</b> | R, MLRA 149B)               | 2 cm Muck (        | A10) (LRR K, L, MLRA 149B)            |
| Histic E     | oipedon (A2)                 |           | Thin Dark Sur    | face    | (S9) (LRR         | R, MLR           | A 149B)                     |                    | e Redox (A16) (LRR K, L, R)           |
| Black H      | istic (A3)                   |           | Loamy Mucky      | / Min   | eral (F1)         | (LRR K, L        | _)                          | <del></del>        | Peat or Peat (S3) (LRR K, L, R)       |
| Hydroge      | en Sulfide (A4)              |           | Loamy Gleye      |         |                   |                  |                             | Dark Surface       |                                       |
| Stratifie    | d Layers (A5)                |           | Depleted Mat     | trix (I | <del>-</del> 3)   |                  |                             | <del></del>        | elow Surface (S8) (LRR K, L)          |
|              | d Below Dark Surfa           |           |                  |         |                   |                  |                             |                    | urface (S9) <b>(LRR K, L)</b>         |
|              | ark Surface (A12)            |           | Depleted Dar     |         |                   |                  |                             |                    | nese Masses (F12) (LRR K, L, R)       |
| _            | Mucky Mineral (S1)           |           | Redox Depre      | ssior   | ıs (F8)           |                  |                             | _                  | oodplain Soils (F19) (MLRA 149B)      |
| -            | Gleyed Matrix (S4)           |           |                  |         |                   |                  |                             |                    | c (TA6) <b>(MLRA 144A, 145, 149B)</b> |
| Sandy F      | Redox (S5)                   |           |                  |         |                   |                  |                             | Red Parent I       |                                       |
| Strippe      | d Matrix (S6)                |           |                  |         |                   |                  |                             |                    | v Dark Surface (TF12)                 |
| Dark Su      | ırface (S7) <b>(LRR R, N</b> | /ILRA 149 | 9B)              |         |                   |                  |                             | Other (Expla       |                                       |
| 3Indicators  | of hydrophytic veg           | etation a | and wetland hvdr | olog    | v must be         | e presen         | t. unless disturbe          | •                  |                                       |
| -            | Layer (if observed):         |           |                  | 0.      | ,                 |                  | .,                          |                    | _                                     |
|              | Type:                        |           | None             |         |                   | Hydric           | Soil Present?               |                    | Yes No                                |
|              | Depth (inches):              |           | None             | •       |                   | liyanc           | John resent.                |                    | 163 <u>7</u> NO                       |
|              | Deptii (inches).             | _         |                  |         |                   |                  |                             |                    |                                       |
| Remarks:     |                              |           |                  |         |                   |                  |                             |                    |                                       |
|              |                              |           |                  |         |                   |                  |                             |                    |                                       |
|              |                              |           |                  |         |                   |                  |                             |                    |                                       |
|              |                              |           |                  |         |                   |                  |                             |                    |                                       |
|              |                              |           |                  |         |                   |                  |                             |                    |                                       |
|              |                              |           |                  |         |                   |                  |                             |                    |                                       |
|              |                              |           |                  |         |                   |                  |                             |                    |                                       |
|              |                              |           |                  |         |                   |                  |                             |                    |                                       |
|              |                              |           |                  |         |                   |                  |                             |                    |                                       |
|              |                              |           |                  |         |                   |                  |                             |                    |                                       |
|              |                              |           |                  |         |                   |                  |                             |                    |                                       |
|              |                              |           |                  |         |                   |                  |                             |                    |                                       |
|              |                              |           |                  |         |                   |                  |                             |                    |                                       |
|              |                              |           |                  |         |                   |                  |                             |                    |                                       |
|              |                              |           |                  |         |                   |                  |                             |                    |                                       |
|              |                              |           |                  |         |                   |                  |                             |                    |                                       |
|              |                              |           |                  |         |                   |                  |                             |                    |                                       |
|              |                              |           |                  |         |                   |                  |                             |                    |                                       |
|              |                              |           |                  |         |                   |                  |                             |                    |                                       |
|              |                              |           |                  |         |                   |                  |                             |                    |                                       |
|              |                              |           |                  |         |                   |                  |                             |                    |                                       |

Soil Photos



Photo of Sample Plot East



Photo of Sample Plot South



| Project/Site: Flat Creek Solar Pr   | oject                  | City/County: Cana   | joharie, Montgomery Coι    | inty Sampling D                                      | ate: 2021-Sept-10       |  |  |  |
|---|------------------------|---|----------------------------|--|-------------------------|--|--|--|
| Applicant/Owner: SunEast  |                        |   | State: NY                  | Sampling Poi   | nt: W-NSD-14_PSS-3      |  |  |  |
| Investigator(s): Nick DeJohn, E   | Brian Corrigan         |   | Section, Township          | Range: NA  |                         |  |  |  |
| Landform (hillslope, terrace, etc   | ): Depression          |   | Local relief (concave, con | /ex, none): Concave                                  | Slope (%): 0 to 1       |  |  |  |
| Subregion (LRR or MLRA):  | LRR L                  |   | Lat: 42.843390740          | 5 Long: -74.5289616                                  | 165 <b>Datum:</b> WGS84 |  |  |  |
| Soil Map Unit Name: Illion sil  | t loam, 3 to 8 percen  | it slopes   |                            | NWI clas   | ssification:            |  |  |  |
| Are climatic/hydrologic condition   | ns on the site typical | for this time of yea  | ar? Yes 🟒 No               | (If no, explain in Re                                | emarks.)                |  |  |  |
| Are Vegetation, Soil,   | or Hydrology _         | significantly dis   | turbed? Are "Norm          | al Circumstances" prese                              | nt? Yes 🟒 No            |  |  |  |
| Are Vegetation, Soil,   | or Hydrology _         | naturally proble  | ematic? (If needed,        | explain any answers in F                             | Remarks.)               |  |  |  |
| Hydrophytic Vegetation Presen Hydric Soil Present? Wetland Hydrology Present? Remarks: (Explain alternative p Covertype is PSS. | Yes Yes                | ✓ No /_ N | g point locations, tra     | in a Wetland?  | Yes/_ No<br>W-NSD-14    |  |  |  |
| HYDROLOGY  Wetland Hydrology Indicators:  Primary Indicators (minimum o  Surface Water (A1)  High Water Table (A2)              | _                      | eck all that apply)<br>Water-Stained Lea<br>Aquatic Fauna (B13  |                            | Surface Soil Cracks ( Drainage Patterns (E           | 310)                    |  |  |  |
| ✓ Saturation (A3)   | _                      | Marl Deposits (B15  | 5)                         | Moss Trim Lines (B16)<br>Dry-Season Water Table (C2) |                         |  |  |  |
| Water Marks (B1)  |                        | Hydrogen Sulfide (  |                            | Crayfish Burrows (C                                  |                         |  |  |  |
| Sediment Deposits (B2)  |                        | · ·   | eres on Living Roots (C3)  | Saturation Visible or                                |                         |  |  |  |
| Drift Deposits (B3)   | _                      | Presence of Reduc   |                            | Stunted or Stressed                                  |                         |  |  |  |
| Algal Mat or Crust (B4)   | _                      |   | tion in Tilled Soils (C6)  | Geomorphic Positio                                   |                         |  |  |  |
| Iron Deposits (B5)  |                        | Thin Muck Surface   |                            | Shallow Aquitard (D                                  | 3)                      |  |  |  |
| <ul><li> Inundation Visible on Aerial</li><li> Sparsely Vegetated Concave</li></ul>   | 0,                     | Other (Explain in R   | emarks)                    | Microtopographic R                                   | elief (D4)              |  |  |  |
| sparsely vegetated Contave  | . Janace (DO)          |   |                            | <u>✓</u> FAC-Neutral Test (D                         | 5)                      |  |  |  |
| Field Observations:   |                        |   |                            |  |                         |  |  |  |
| Surface Water Present?  | Yes No                 | <u>/</u> Depth (  | inches):                   | _  |                         |  |  |  |
| Water Table Present?  | Yes No                 | Depth (   | inches): 5                 | Wetland Hydrology Pre                                | sent? Yes No            |  |  |  |
| Saturation Present?   | Yes 🟒 No               | Depth (   | inches): 1                 |  |                         |  |  |  |
| (includes capillary fringe)   |                        |   |                            | -  |                         |  |  |  |
| Describe Recorded Data (stream  | m gauge, monitoring    | well, aerial photos   | previous inspections), if  | available:   |                         |  |  |  |
| 2 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0   | 80080,                 | ,, ac.ia. piiotos   | , p. e                     |  |                         |  |  |  |
|   |                        |   |                            |  |                         |  |  |  |
|   |                        |   |                            |  |                         |  |  |  |
| Remarks:  |                        |   |                            |  |                         |  |  |  |
|   |                        |   |                            |  |                         |  |  |  |
|   |                        |   |                            |  |                         |  |  |  |
|   |                        |   |                            |  |                         |  |  |  |
|   |                        |   |                            |  |                         |  |  |  |
|   |                        |   |                            |  |                         |  |  |  |
|   |                        |   |                            |  |                         |  |  |  |
|   |                        |   |                            |  |                         |  |  |  |

| Tree Stratum (Plot size:30 ft)                             |    | Dominant<br>Species? | Indicator<br>Status | Dominance Test work Number of Dominant Are OBL, FACW, or FA | Species That      | 4            | (A)         |
|--|----|----------------------|---------------------|---|-------------------|--------------|-------------|
| 1<br>2.  |    |                      |                     | Total Number of Dom   |                   | 4            | (B)         |
| 3.   |    |                      |                     | Across All Strata: Percent of Dominant                      | Chasias That      |              | `           |
| 4  |    |                      |                     | - Are OBL, FACW, or FA                                      | '                 | 100          | (A/B)       |
| 5  |    |                      |                     | Prevalence Index wor  |                   |              |             |
| 6  |    |                      |                     | Total % Cove  |                   | Multiply I   | Bv:         |
| 7  |    |                      |                     | - OBL species   | 0                 | x 1 =        | 0           |
|  | 0  | = Total Cov          | er                  | FACW species  | 105               | x 2 =        | 210         |
| Sapling/Shrub Stratum (Plot size: 15 ft )                  |    |                      |                     | FAC species   | 10                | x 3 =        | 30          |
| 1. Salix bebbiana  | 40 | Yes                  | FACW                | FACU species  | 0                 | x 4 =        | 0           |
| 2. Rhamnus cathartica                                      |    | Yes                  | FAC                 | - UPL species   | 0                 | x 5 =        | 0           |
| 3.   |    |                      |                     | - Column Totals   | 115               | (A)          | 240 (B)     |
| 4  |    |                      |                     | - Prevalence  | Index = B/A =     | 2.1          |             |
| 5  |    |                      |                     | Hydrophytic Vegetation                                      | on Indicators:    |              |             |
| 6.   |    |                      |                     | 1- Rapid Test for   |                   | /egetation   |             |
| 7  |    |                      |                     | 2 - Dominance T   |                   | -8           |             |
|  | 50 | = Total Cov          | er                  | 3 - Prevalence In   |                   |              |             |
| Herb Stratum (Plot size: <u>5 ft</u> )                     |    |                      |                     | 4 - Morphologica  |                   | ¹ (Provide s | supporting  |
| 1. Symphyotrichum novi-belgii                              | 40 | Yes                  | FACW                | data in Remarks or or                                       |                   |              | 11 0        |
| 2. <i>Impatiens capensis</i>                               | 25 | Yes                  | FACW                | Problematic Hyd   | drophytic Vege    | tation¹ (Ex  | plain)      |
| 3  |    |                      |                     | Indicators of hydric s                                      | oil and wetlan    | d hydrolog   | gy must be  |
| 4  |    |                      |                     | present, unless distur                                      |                   |              |             |
| 5  |    |                      |                     | Definitions of Vegetat                                      | ion Strata:       |              |             |
| 6  |    |                      |                     | Tree – Woody plants 3                                       | 3 in. (7.6 cm) oi | r more in c  | diameter at |
| 7  |    |                      |                     | breast height (DBH), r                                      | egardless of h    | eight.       |             |
| 8.   |    |                      |                     | Sapling/shrub - Wood  |                   |              | BH and      |
| 9.   |    |                      |                     | greater than or equal                                       | to 3.28 ft (1 m   | ) tall.      |             |
| 10   |    |                      |                     | Herb – All herbaceous                                       | -                 |              | gardless of |
| 11.  |    |                      |                     | size, and woody plant                                       |                   |              |             |
| 12.  |    |                      |                     | Woody vines – All woo                                       | ody vines great   | ter than 3.  | 28 ft in    |
|  | 65 | = Total Cov          | er                  | height.   |                   |              |             |
| <u>Woody Vine Stratum</u> (Plot size: <u>30 ft</u> )<br>1. |    | _                    |                     | Hydrophytic Vegetati  | ion Present? \    | Yes N        | 0           |
| 2.   |    |                      |                     | =   |                   |              |             |
|  |    |                      |                     | -   |                   |              |             |
| <b>⊰</b>   |    |                      |                     | -   |                   |              |             |
| 3  |    |                      |                     | -   |                   |              |             |
| 4.   |    | = Total Cov          | ar                  |   |                   |              |             |

|              | cription: (Describe                         | to the de | -                |        |                   | ndicato          | or confirm the a            | bsence of indicato | ors.)                            |
|--------------|---|-----------|------------------|--------|-------------------|------------------|-----------------------------|--------------------|----------------------------------|
| Depth _      | Matrix                                      |           | Redox            |        |                   |                  |                             |                    |                                  |
| (inches)     | Color (moist)                               | %         | Color (moist)    | %      | Type <sup>1</sup> | Loc <sup>2</sup> | Text                        | ure                | Remarks                          |
| 0 - 6        | 10YR 3/1                                    | 100       |                  |        |                   |                  | Silty Cla                   | y Loam             |                                  |
| 6 - 20       | 10YR 3/2                                    | 95        | 5YR 3/4          | 5      | С                 | M                | Silty Cla                   | y Loam             |                                  |
|              |   |           |                  |        |                   |                  |                             | _                  |                                  |
|              |   |           |                  | _      |                   |                  |                             |                    |                                  |
|              |   |           |                  | _      |                   |                  |                             | -                  |                                  |
|              |   |           |                  | _      |                   |                  |                             |                    |                                  |
|              |   |           |                  | _      |                   |                  |                             |                    |                                  |
|              |   |           |                  | _      |                   |                  |                             |                    |                                  |
|              |   |           |                  | _      |                   |                  |                             |                    |                                  |
|              |   |           |                  | _      |                   |                  |                             |                    |                                  |
|              |   |           |                  | _      |                   |                  |                             |                    |                                  |
|              |   |           |                  | _      |                   |                  |                             | <u></u>            |                                  |
|              |   |           |                  | _      |                   |                  |                             |                    |                                  |
| ¹Type: C = C | Concentration, D =                          | Depletio  | n, RM = Reduced  | Mat    | rix, MS =         | Masked           | Sand Grains. <sup>2</sup> L | ocation: PL = Pore | e Lining, M = Matrix.            |
| Hydric Soil  | Indicators:                                 |           |                  |        |                   |                  |                             | Indicators for P   | roblematic Hydric Soils³:        |
| Histosol     | (A1)  |           | Polyvalue Bel    | ow S   | urface (S         | 8) <b>(LRR</b> I | R, MLRA 149B)               | 2 cm Muck (        | (A10) (LRR K, L, MLRA 149B)      |
| Histic Ep    | oipedon (A2)                                |           | Thin Dark Sur    | face   | (S9) (LRR         | R, MLR           | A 149B)                     |                    | e Redox (A16) (LRR K, L, R)      |
| Black Hi     | stic (A3)                                   |           | Loamy Mucky      | Mir    | eral (F1)         | (LRR K, I        | _)                          | <del></del>        | Peat or Peat (S3) (LRR K, L, R)  |
| Hydroge      | en Sulfide (A4)                             |           | Loamy Gleye      |        |                   |                  |                             | Dark Surface       |                                  |
| Stratifie    | d Layers (A5)                               |           | Depleted Mat     | rix (I | <del>-</del> 3)   |                  |                             | <del></del>        | elow Surface (S8) (LRR K, L)     |
| Deplete      | d Below Dark Surfa                          |           |                  |        |                   |                  |                             |                    | urface (S9) <b>(LRR K, L)</b>    |
|              | ark Surface (A12)                           |           | Depleted Dar     |        |                   |                  |                             |                    | nese Masses (F12) (LRR K, L, R)  |
| Sandy M      | lucky Mineral (S1)                          |           | Redox Depre      | ssior  | ıs (F8)           |                  |                             |                    | oodplain Soils (F19) (MLRA 149B) |
| Sandy G      | Gleyed Matrix (S4)                          |           |                  |        |                   |                  |                             |                    | c (TA6) (MLRA 144A, 145, 149B)   |
| Sandy R      | tedox (S5)                                  |           |                  |        |                   |                  |                             | Red Parent         |                                  |
| Stripped     | d Matrix (S6)                               |           |                  |        |                   |                  |                             |                    | v Dark Surface (TF12)            |
| Dark Su      | rface (S7) (LRR R, N                        | /ILRA 149 | 9B)              |        |                   |                  |                             | Other (Expla       |                                  |
| 21           | a £ la , , al , a , a la , , di a , , a = . |           |                  | _      |                   |                  |                             | •                  |                                  |
| -            | of hydrophytic veg<br>Layer (if observed):  |           | and wettand nydr | olog   | y must be         | e presen         | t, unless disturbe          | ed or problematic. | ·                                |
|              | •   |           | None             |        |                   | Lludric          | Cail Dracant?               |                    | Voc. / No.                       |
|              | Type:                                       |           | None             |        |                   | Hydric           | Soil Present?               |                    | Yes No                           |
|              | Depth (inches):                             |           |                  |        |                   |                  |                             |                    |                                  |
| Remarks:     |   |           |                  |        |                   |                  |                             |                    |                                  |
|              |   |           |                  |        |                   |                  |                             |                    |                                  |
|              |   |           |                  |        |                   |                  |                             |                    |                                  |
|              |   |           |                  |        |                   |                  |                             |                    |                                  |
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|              |   |           |                  |        |                   |                  |                             |                    |                                  |
|              |   |           |                  |        |                   |                  |                             |                    |                                  |
|              |   |           |                  |        |                   |                  |                             |                    |                                  |
|              |   |           |                  |        |                   |                  |                             |                    |                                  |
|              |   |           |                  |        |                   |                  |                             |                    |                                  |
|              |   |           |                  |        |                   |                  |                             |                    |                                  |
|              |   |           |                  |        |                   |                  |                             |                    |                                  |
|              |   |           |                  |        |                   |                  |                             |                    |                                  |
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|              |   |           |                  |        |                   |                  |                             |                    |                                  |
|              |   |           |                  |        |                   |                  |                             |                    |                                  |
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|              |   |           |                  |        |                   |                  |                             |                    |                                  |
|              |   |           |                  |        |                   |                  |                             |                    |                                  |
|              |   |           |                  |        |                   |                  |                             |                    |                                  |
|              |   |           |                  |        |                   |                  |                             |                    |                                  |
|              |   |           |                  |        |                   |                  |                             |                    |                                  |

Hydrology Photos



Soil Photos



Photo of Sample Plot East



Photo of Sample Plot West



| Project/Site: Flat Creek Solar Pr  | oject                | City/County: Cana              | joharie, Montgomery Cou         | nty Sampling Date: 2          | 021-Sept-10          |
|------------------------------------|----------------------|--------------------------------|---------------------------------|-------------------------------|----------------------|
| Applicant/Owner: SunEast           |                      |                                | State: NY                       | Sampling Point: W-I           | NSD-14_UPL-1         |
| Investigator(s): Nick DeJohn, E    | Brian Corrigan       |                                | Section, Township,              | Range: NA                     |                      |
| Landform (hillslope, terrace, etc. | .): Hillslope        | ļ                              | <br>Local relief (concave, conv | ex, none): Convex             | Slope (%): 1 to 3    |
| Subregion (LRR or MLRA):           | LRR L                | <u>.</u>                       | Lat: 42.841898566               | 2 <b>Long:</b> -74.535075333  | Datum: WGS84         |
| Soil Map Unit Name: Burdett        | channery silt loam   | n, 3 to 8 percent slope        | es —                            | NWI classificati              | on:                  |
| Are climatic/hydrologic condition  | ns on the site typic | al for this time of year       | ı <b>r?</b> Yes∕_ No            | (If no, explain in Remarks    | .)                   |
| Are Vegetation, Soil,              | or Hydrology         | significantly dis              |                                 | al Circumstances" present?    | Yes _ <b>✓</b> No    |
| Are Vegetation, Soil,              |                      | naturally proble               |                                 | explain any answers in Remark |                      |
|                                    | , ,                  |                                |                                 |                               |                      |
| SUMMARY OF FINDINGS –              | Attach site man      | showing camplin                | a point locations tran          | seets important features      | etc                  |
|                                    | -                    |                                | g point locations, trai         | isects, important reatures    | , etc.               |
| Hydrophytic Vegetation Presen      | t? Yes               | No _ <b>_</b> _                |                                 |                               |                      |
| Hydric Soil Present?               | Yes                  | No                             | Is the Sampled Area with        | in a Wetland?                 | es No <u>_</u>       |
| Wetland Hydrology Present?         | Yes                  | No <b>_</b>                    | If yes, optional Wetland S      | iite ID:                      |                      |
| Remarks: (Explain alternative p    |                      |                                | ,,                              |                               |                      |
| · ·                                | rocedures riere or   | in a separate report)          |                                 |                               |                      |
| Covertype is UPL.                  |                      |                                |                                 |                               |                      |
| j.                                 |                      |                                |                                 |                               |                      |
|                                    |                      |                                |                                 |                               |                      |
| I                                  |                      |                                |                                 |                               |                      |
|                                    |                      |                                |                                 |                               |                      |
|                                    |                      |                                |                                 |                               |                      |
|                                    |                      |                                |                                 |                               |                      |
|                                    |                      |                                |                                 |                               |                      |
|                                    |                      |                                |                                 |                               |                      |
|                                    |                      |                                |                                 |                               |                      |
|                                    |                      |                                |                                 |                               |                      |
|                                    |                      |                                |                                 |                               |                      |
| HYDROLOGY                          |                      |                                |                                 |                               |                      |
| IIIDROEGGI                         |                      |                                |                                 |                               |                      |
| Wetland Hydrology Indicators:      |                      |                                |                                 |                               |                      |
| Primary Indicators (minimum o      | f and is required:   | hock all that apply)           |                                 | Secondary Indicators (minimus | m of two required)   |
| Frimary indicators (minimum o      | i one is required, c | <u>.rieck all triat apply)</u> |                                 | Secondary Indicators (minimus | iii oi two requireu) |
| Surface Water (A1)                 |                      | Water-Stained Leav             | ves (B9)                        | Surface Soil Cracks (B6)      |                      |
| High Water Table (A2)              | _                    | <br>Aquatic Fauna (B13         |                                 | Drainage Patterns (B10)       |                      |
| Saturation (A3)                    | _                    | Marl Deposits (B15             |                                 | Moss Trim Lines (B16)         |                      |
| Water Marks (B1)                   | _                    | Hydrogen Sulfide (             |                                 | Dry-Season Water Table (C     | 2)                   |
| Sediment Deposits (B2)             | _                    |                                | eres on Living Roots (C3)       | Crayfish Burrows (C8)         |                      |
|                                    | _                    | •                              | _                               | Saturation Visible on Aerial  | Imagery (C9)         |
| Drift Deposits (B3)                | -                    | Presence of Reduc              |                                 | Stunted or Stressed Plants    | (D1)                 |
| Algal Mat or Crust (B4)            | _                    |                                | ion in Tilled Soils (C6)        | Geomorphic Position (D2)      |                      |
| Iron Deposits (B5)                 | _                    | Thin Muck Surface              |                                 | Shallow Aquitard (D3)         |                      |
| Inundation Visible on Aerial       | Imagery (B7)         | Other (Explain in R            | emarks)                         |                               | 4)                   |
| Sparsely Vegetated Concave         | e Surface (B8)       |                                |                                 | Microtopographic Relief (D    | 4)                   |
|                                    |                      |                                |                                 | FAC-Neutral Test (D5)         |                      |
| Field Observations:                |                      |                                |                                 |                               |                      |
| Surface Water Present?             | Yes No               | Depth (i                       | nches):                         |                               |                      |
| Water Table Present?               | Yes No               | _ <b>✓</b> Depth (i            | nches):                         | Wetland Hydrology Present?    | Yes No               |
| Saturation Present?                | Yes No               |                                | nches).                         |                               |                      |
|                                    | 165 110              | <u>v</u> bepair (              |                                 |                               |                      |
| (includes capillary fringe)        |                      |                                |                                 |                               |                      |
| Describe Recorded Data (strear     | m gauge, monitorii   | ng well, aerial photos         | previous inspections), if a     | available:                    |                      |
|                                    |                      |                                |                                 |                               |                      |
|                                    |                      |                                |                                 |                               |                      |
|                                    |                      |                                |                                 |                               |                      |
| Remarks:                           |                      |                                |                                 |                               |                      |
|                                    |                      |                                |                                 |                               |                      |
|                                    |                      |                                |                                 |                               |                      |
|                                    |                      |                                |                                 |                               |                      |
|                                    |                      |                                |                                 |                               |                      |
|                                    |                      |                                |                                 |                               |                      |
|                                    |                      |                                |                                 |                               |                      |
|                                    |                      |                                |                                 |                               |                      |
|                                    |                      |                                |                                 |                               |                      |
|                                    |                      |                                |                                 |                               |                      |

| Tree Stratum (Plot size: <u>30 ft</u> )                      |               | Dominant Species? | Indicator<br>Status | Dominance Test worksh<br>Number of Dominant Sp        |                         | 2            | (4)         |
|--|---------------|-------------------|---------------------|---|-------------------------|--------------|-------------|
| . Fraxinus americana   | 30            | Yes               | FACU                | Are OBL, FACW, or FAC:                                |                         | 2            | (A)         |
| 2. Ulmus rubra   |               | Yes               | FAC                 | Total Number of Domina                                | ant Species             | 5            | (B)         |
| 3. Tilia americana   | 10            | No                | FACU                | Across All Strata:                                    |                         |              |             |
| 1.   |               |                   |                     | Percent of Dominant Sp                                | ecies That              | 40           | (A/B)       |
| 5.   |               |                   |                     | Are OBL, FACW, or FAC:                                |                         |              | `           |
| 5.   |               |                   |                     | Prevalence Index worksl                               |                         |              |             |
| 7.   |               |                   |                     | Total % Cover o                                       |                         | Multiply     | •           |
|  |               | = Total Cov       | er                  | - OBL species   | 0                       | x 1 = _      | 0           |
| apling/Shrub Stratum (Plot size: 15 ft )                     |               | -                 |                     | FACW species  | 0                       | x 2 =        | 0           |
| . Rhamnus cathartica   | 10            | Yes               | FAC                 | FAC species   | 35                      | x 3 =        | 105         |
|  |               |                   |                     | FACU species  | 85                      | x 4 =        | 340         |
|  |               |                   |                     | - UPL species   | 0                       | x 5 = _      | 0           |
|  |               |                   |                     | - Column Totals                                       | 120                     | (A)          | 445 (B)     |
|  |               |                   |                     | Prevalence Inc  | lex = B/A =             | 3.7          |             |
|  |               |                   |                     | Hydrophytic Vegetation                                | Indicators:             |              |             |
| ·.<br>'.   |               |                   |                     | 1- Rapid Test for H                                   | drophytic V             | egetation    |             |
| •  |               | - Total Cov       | or                  | 2 - Dominance Test                                    | is > 50%                |              |             |
| laub Stuatuum (Diat sinas - F. ft - )                        | 10            | = Total Cov       | er                  | 3 - Prevalence Inde                                   | x is ≤ $3.0^{1}$        |              |             |
| Herb Stratum (Plot size: <u>5 ft</u> ) . Solidago canadensis | 20            | Voc               | FACU                | 4 - Morphological A                                   | daptations <sup>1</sup> | (Provide     | supporting  |
|  | <u>30</u><br> | Yes               |                     | - data in Remarks or on a                             | •                       |              |             |
| 2. Rubus allegheniensis                                      |               | Yes               | FACU                | - Problematic Hydro                                   |                         |              |             |
| 3. Cornus racemosa   | 10            | No                | FAC                 | - Indicators of hydric soil                           |                         | , ,          | gy must be  |
| 1  |               |                   |                     | present, unless disturbe                              |                         | matic        |             |
| 5.   |               |                   |                     | Definitions of Vegetation                             |                         |              |             |
| 5.   |               |                   |                     | Tree – Woody plants 3 in                              |                         |              | diameter a  |
| 7  |               |                   |                     | breast height (DBH), reg                              |                         | -            |             |
| 3.   |               |                   |                     | Sapling/shrub – Woody                                 |                         |              | BH and      |
| )  |               |                   |                     | greater than or equal to                              |                         |              |             |
| 0  |               |                   |                     | Herb – All herbaceous (r<br>size, and woody plants le | -                       |              | gardiess oi |
| 1  |               |                   |                     | Woody vines – All woody                               |                         |              | 20 ft in    |
| 2  |               |                   |                     | height.   | viiles great            | er triair 5. | 20 11 111   |
|  | 55            | = Total Cov       | er                  |   |                         | ,            |             |
| <u>Voody Vine Stratum</u> (Plot size: <u>30 ft</u> )         |               |                   |                     | Hydrophytic Vegetation                                | Present?                | es N         | 10          |
|  |               |                   |                     | _   |                         |              |             |
|  |               |                   |                     | _   |                         |              |             |
| 3.   |               |                   |                     | _   |                         |              |             |
| 1  |               |                   |                     | _   |                         |              |             |
|  | 0             | = Total Cov       | er                  |   |                         |              |             |

|                   | scription: (Describe             | to the d  |                    |          |                   | indicato         | r or confirm the   | absence of indicato        | rs.)                                   |
|-------------------|----------------------------------|-----------|--------------------|----------|-------------------|------------------|--------------------|----------------------------|--|
| Depth<br>(inches) | Matrix                           | 0/        | Redox              |          |                   | 1652             | <b></b>            | rtura                      | Domestic                               |
| (inches)          | Color (moist)                    | 100       | Color (moist)      | <u>%</u> | Type <sup>1</sup> | Loc <sup>2</sup> |                    | ture                       | Remarks                                |
| 0 - 9             | 10YR 3/2                         | 100       | 7 5/5 4/6          | _        |                   |                  |                    | ay Loam                    |  |
| 9 - 20            | 10YR 3/2                         | 95        | 7.5YR 4/6          | 5        | C                 | M_               | Silty Cla          | ay Loam                    |  |
|                   | -                                | - —       |                    | _        |                   |                  |                    |                            |  |
|                   |                                  |           |                    | _        |                   |                  | -                  |                            |  |
|                   |                                  |           |                    | _        |                   |                  | -                  |                            |  |
|                   |                                  |           |                    | _        |                   |                  | -                  |                            |  |
|                   |                                  |           |                    | _        |                   |                  | -                  |                            |  |
|                   |                                  |           |                    | _        |                   |                  | -                  |                            |  |
|                   |                                  |           |                    | _        |                   |                  |                    |                            |  |
|                   |                                  | - —       |                    | _        |                   |                  | -                  | ·                          |  |
|                   |                                  | - —       |                    | _        |                   |                  | -                  | ·                          |  |
| 1Type: C =        | Concentration D =                | Doplotic  | DM = Poducod       | N/at     | riv MC –          | Mackad           | Eand Crains 2      | Location: DL - Doro        | Lining M = Matrix                      |
|                   | Concentration, D =               | Dehleric  | ni, Rivi – Reduced | ıvıdl    | 11X, IVIS =       | iviasked         | ı Janu Granıs. 2   |                            | roblematic Hydric Soils <sup>3</sup> : |
| Histoso           |                                  |           | Polyvalue Rel      | 0W S     | iurface (9        | (8) <b>(I RP</b> | R, MLRA 149B)      |                            | •                                      |
|                   | pipedon (A2)                     |           | Thin Dark Sui      |          |                   |                  |                    |                            | A10) (LRR K, L, MLRA 149B)             |
|                   | listic (A3)                      |           | Loamy Mucky        |          |                   |                  |                    |                            | Redox (A16) (LRR K, L, R)              |
|                   | gen Sulfide (A4)                 |           | Loamy Gleye        |          |                   | ·                |                    | 5 cm Mucky<br>Dark Surface | Peat or Peat (S3) (LRR K, L, R)        |
|                   | ed Layers (A5)                   |           | Depleted Ma        |          |                   |                  |                    |                            | elow Surface (S8) (LRR K, L)           |
|                   | ed Below Dark Surf               |           |                    |          |                   |                  |                    |                            | urface (S9) <b>(LRR K, L)</b>          |
|                   | Park Surface (A12)               |           | Depleted Dar       |          |                   | )                |                    |                            | nese Masses (F12) (LRR K, L, R)        |
| -                 | Mucky Mineral (S1)               |           | Redox Depre        | ssior    | 1S (F8)           |                  |                    |                            | oodplain Soils (F19) (MLRA 149B)       |
| -                 | Gleyed Matrix (S4)<br>Redox (S5) |           |                    |          |                   |                  |                    | Mesic Spodio               | (TA6) <b>(MLRA 144A, 145, 149B)</b>    |
| _                 | ed Matrix (S6)                   |           |                    |          |                   |                  |                    | Red Parent N               |  |
|                   | urface (S7) <b>(LRR R, N</b>     | ΛΙ RΔ 1Δ0 | 9R)                |          |                   |                  |                    | -                          | Dark Surface (TF12)                    |
| bank s            | arrace (37) <b>(211111)</b>      |           | ,,                 |          |                   |                  |                    | Other (Expla               | in in Remarks)                         |
| -                 | of hydrophytic veg               |           | and wetland hydr   | olog     | y must b          | e preser         | nt, unless disturb | ed or problematic.         |  |
| Restrictive       | Layer (if observed):             |           |                    |          |                   |                  | 5 11 5 12          |                            |  |
|                   | Type:                            |           | None               |          |                   | Hydrid           | : Soil Present?    | ·                          | Yes No                                 |
|                   | Depth (inches):                  | _         |                    |          |                   |                  |                    |                            |  |
| Remarks:          |                                  |           |                    |          |                   |                  |                    |                            |  |
|                   |                                  |           |                    |          |                   |                  |                    |                            |  |
|                   |                                  |           |                    |          |                   |                  |                    |                            |  |
|                   |                                  |           |                    |          |                   |                  |                    |                            |  |
|                   |                                  |           |                    |          |                   |                  |                    |                            |  |
|                   |                                  |           |                    |          |                   |                  |                    |                            |  |
|                   |                                  |           |                    |          |                   |                  |                    |                            |  |
|                   |                                  |           |                    |          |                   |                  |                    |                            |  |
|                   |                                  |           |                    |          |                   |                  |                    |                            |  |
|                   |                                  |           |                    |          |                   |                  |                    |                            |  |
|                   |                                  |           |                    |          |                   |                  |                    |                            |  |
|                   |                                  |           |                    |          |                   |                  |                    |                            |  |
|                   |                                  |           |                    |          |                   |                  |                    |                            |  |
|                   |                                  |           |                    |          |                   |                  |                    |                            |  |
|                   |                                  |           |                    |          |                   |                  |                    |                            |  |
|                   |                                  |           |                    |          |                   |                  |                    |                            |  |
|                   |                                  |           |                    |          |                   |                  |                    |                            |  |
|                   |                                  |           |                    |          |                   |                  |                    |                            |  |
|                   |                                  |           |                    |          |                   |                  |                    |                            |  |



Photo of Sample Plot North



Photo of Sample Plot East



| Project/Site: Flat Creek Solar Pro                                       | ject                 | _City/County: Can                         | ajoharie, Montgomery Cou     | unty            | Sampling Date: 202                      | 21-Sept-10          |
|--|----------------------|---|------------------------------|-----------------|---|---------------------|
| Applicant/Owner: SunEast   |                      |   | State: NY                    |                 | Sampling Point: W-N                     | SD-14_UPL-2         |
| Investigator(s): Nick DeJohn, Br   | ian Corrigan         |   | Section, Township,           | , Range: NA     | ١                                       |                     |
| Landform (hillslope, terrace, etc.)                                      | : Flat               |   | Local relief (concave, conv  | vex, none):     | Undulating                              | Slope (%): 0 to 1   |
| Subregion (LRR or MLRA): LI  | RR L                 |   | Lat: 42.843617484            | 19 <b>Long:</b> | -74.5337385033                          | Datum: WGS84        |
| Soil Map Unit Name: Burdett o  | hannery silt loam,   | 3 to 8 percent slop                       | es                           |                 | NWI classificatio                       | n:                  |
| Are climatic/hydrologic condition:                                       | s on the site typica | al for this time of ye                    | ear? Yes 🟒 No                | )(If no,        | , explain in Remarks.)                  |                     |
| Are Vegetation, Soil,  | or Hydrology _       | significantly dis                         | sturbed? Are "Norm           | al Circumsta    | ances" present?                         | Yes No              |
| Are Vegetation, Soil,  | or Hydrology _       | naturally probl                           | lematic? (If needed,         | , explain any   | answers in Remarks.                     | .)                  |
| SUMMARY OF FINDINGS – A  | -                    |   | ng point locations, trai     | nsects, im      | portant features,                       | etc.                |
| Hydrophytic Vegetation Present?  |                      | No _ <b>_</b> _                           |                              |                 |   |                     |
| Hydric Soil Present?   | Yes                  | No <u></u>                                | Is the Sampled Area withi    | in a Wetland    | d? Yes                                  | s No <u>_</u> _     |
| Wetland Hydrology Present?   | Yes _                | No _ <b>_</b> _                           | If yes, optional Wetland S   | ite ID:         |   |                     |
|  |                      |   |                              |                 |   |                     |
| HYDROLOGY  Wetland Hydrology Indicators:  Primary Indicators (minimum of | one is required: ch  | neck all that apply)                      |                              | Secondary       | · Indicators (minimum                   | of two required)    |
| -  | •                    |   |                              | -               | e Soil Cracks (B6)                      | ror two required,   |
| Surface Water (A1)   |                      | _ Water-Stained Lea                       |                              |                 | ge Patterns (B10)                       |                     |
| High Water Table (A2)  |                      | _ Aquatic Fauna (B1                       |                              |                 | rim Lines (B16)                         |                     |
| Saturation (A3)<br>Water Marks (B1)                                      |                      | _ Marl Deposits (B1<br>_ Hydrogen Sulfide |                              | Dry-Sea         | ason Water Table (C2)                   | )                   |
| Sediment Deposits (B2)   |                      |   | neres on Living Roots (C3)   | -               | h Burrows (C8)                          |                     |
| Drift Deposits (B3)  |                      | _ Presence of Redu                        | _                            |                 | tion Visible on Aerial I                |                     |
| Algal Mat or Crust (B4)  | _                    |   | ction in Tilled Soils (C6)   |                 | d or Stressed Plants (I                 | D1)                 |
| Iron Deposits (B5)   | _                    | _ Thin Muck Surface                       | e (C7)                       |                 | orphic Position (D2)<br>v Aquitard (D3) |                     |
| Inundation Visible on Aerial I   | magery (B7)          | _ Other (Explain in I                     | Remarks)                     |                 | opographic Relief (D4)                  | )                   |
| Sparsely Vegetated Concave   | Surface (B8)         |   |                              |                 | eutral Test (D5)                        | ,                   |
| Field Observations:  | -                    |   |                              | _ <del></del>   | • |                     |
| Surface Water Present?   | Yes No _             | ✓ Depth                                   | (inches):                    |                 |   |                     |
| Water Table Present?   | Yes No _             | ✓ Depth                                   | (inches):                    | - <br>Wetland H | lydrology Present?                      | Yes No _ <b>_</b> ✓ |
| Saturation Present?  | Yes No _             |   | (inches):                    | -               | ,                                       |                     |
| (includes capillary fringe)  | 163 110 _            | <u>v</u> Берин                            | (11101103).                  | -               |   |                     |
|  | gauga manitarin      | a wall parial photo                       | s provious inspections) if   | available:      |   |                     |
| Describe Recorded Data (stream   | gauge, monitorin     | g weii, aeriai pnoto:                     | s, previous inspections), it | avaliable:      |   |                     |
| Remarks:   |                      |   |                              |                 |   |                     |
|  |                      |   |                              |                 |   |                     |
|  |                      |   |                              |                 |   |                     |
|  |                      |   |                              |                 |   |                     |
|  |                      |   |                              |                 |   |                     |
|  |                      |   |                              |                 |   |                     |
|  |                      |   |                              |                 |   |                     |

| <u>Tree Stratum</u> (Plot size: <u>30 ft</u> ) |          | Dominant Species? | Indicator<br>Status | Dominance Test workshown Number of Dominant Sp     |               | 2           | (A)         |
|--|----------|-------------------|---------------------|--|---------------|-------------|-------------|
| . <i>Tilia americana</i>                       | 20       | Yes               | FACU                | Are OBL, FACW, or FAC: Total Number of Domina      | ant Species   | 4           | (B)         |
| 3.   |          |                   |                     | Across All Strata:                                 |               |             |             |
|  |          |                   |                     | Percent of Dominant Speared Are OBL, FACW, or FAC: | ecies That    | 50          | (A/B)       |
| j  |          |                   |                     | Prevalence Index worksh                            | neet:         |             |             |
| j  |          |                   |                     | Total % Cover o                                    |               | Multiply    | Bv:         |
| '. <u> </u>                                    |          |                   |                     | - OBL species                                      | 0             | x 1 =       | 0           |
|  | 20       | = Total Cover     | •                   | FACW species                                       | 0             | x 2 =       | 0           |
| apling/Shrub Stratum (Plot size: 15 ft )       |          |                   |                     | FAC species  | 35            | x 3 =       | 105         |
| . Rhamnus cathartica                           | 10       | Yes               | FAC                 | FACU species                                       | 50            | x 4 =       | 200         |
|  |          |                   |                     | - UPL species                                      | 0             | x 5 =       | 0           |
|  |          |                   |                     | - Column Totals                                    | 85            | (A)         | 305 (B)     |
|  |          |                   |                     | Prevalence Inc                                     | lex = B/A =   | 3.6         |             |
|  |          |                   |                     | Hydrophytic Vegetation                             | Indicators:   |             |             |
| i  |          |                   |                     | 1- Rapid Test for Hy                               |               | /egetation  |             |
| ·  |          |                   |                     | 2 - Dominance Test                                 |               | -0          |             |
|  | 10       | = Total Cover     | •                   | 3 - Prevalence Inde                                |               |             |             |
| <u>lerb Stratum</u> (Plot size: <u>5 ft</u> )  |          |                   |                     | 4 - Morphological A                                |               | ¹ (Provide  | supporting  |
| . Solidago canadensis                          | 30       | Yes               | FACU                | data in Remarks or on a                            |               |             |             |
| 2. Rhamnus cathartica                          | 15       | Yes               | FAC                 | Problematic Hydro                                  | phytic Vege   | tation¹ (Ex | plain)      |
| 3. Toxicodendron radicans                      | 10       | No                | FAC                 | ¹Indicators of hydric soil                         | and wetlan    | d hydrolog  | gy must be  |
| 1  |          |                   |                     | present, unless disturbe                           | d or proble   | matic       |             |
| 5.   |          |                   |                     | Definitions of Vegetation                          | Strata:       |             |             |
| 5  |          |                   |                     | Tree – Woody plants 3 in                           | . (7.6 cm) oi | r more in o | diameter a  |
| 7  |          |                   |                     | breast height (DBH), reg                           | ardless of h  | eight.      |             |
| 3  |          |                   |                     | Sapling/shrub – Woody                              |               |             | BH and      |
| Э  |          |                   |                     | greater than or equal to                           |               |             |             |
| 0  |          |                   |                     | Herb – All herbaceous (n                           |               |             | gardless of |
| l1   |          |                   |                     | size, and woody plants le                          |               |             |             |
| 2.   |          |                   |                     | Woody vines – All woody                            | vines grea    | ter than 3. | 28 ft in    |
|  | 55       | = Total Cover     | -                   | height.  |               |             |             |
| Noody Vine Stratum (Plot size:30 ft)           |          | _                 |                     | Hydrophytic Vegetation                             | Present? \    | Yes N       | 0           |
| · · · · · · · · · · · · · · · · · · ·          |          |                   |                     |  |               |             |             |
| -  |          |                   |                     |  |               |             |             |
|  |          |                   |                     |  |               |             |             |
| 1.<br>2.<br>3.                                 | <u> </u> |                   |                     |  |               |             |             |
| ı  | ·        |                   |                     |  |               |             |             |

| Depth   Matrix   Redox Features   |  |
|---|--|
| <del></del>   |  |
| 0 - 11 10YR 3/2 100 Silt Loam   |  |
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| <sup>1</sup> Type: C = Concentration, D = Depletion, RM = Reduced Matrix, MS = Masked Sand Grains. <sup>2</sup> Location: PL = Pore Lining, M = Matrix. |  |
| Hydric Soil Indicators: Indicators for Problematic Hydric Soils <sup>3</sup> :  |  |
| Historial (A4)  |  |
| Listic Enizoden (A2)  This Dayl Surface (S0) (I DD D MI DA 140D)  |  |
| Disabilitatio (A2)  |  |
| Hydrogen Sulfide (M) Leamy Glaved Matrix (E2)   |  |
| Stratified Layers (A5) Depleted Matrix (F3) Polyvalue Below Surface (S8) (LRR K, L)   |  |
| I Denleted Below Dark Surface (A11) Redox Dark Surface (F6)   |  |
| Thick Dark Surface (A12) Depleted Dark Surface (F7) Thin Dark Surface (A12) Depleted Dark Surface (F7)  |  |
| Sandy Mucky Mineral (S1)  Redox Depressions (F8)  Redox Depressions (F8)  Redox Depressions (F8)  |  |
| Piedmont Floodplain Soils (F19) (MLRA 149B)  Sandy Gleyed Matrix (S4)   |  |
| Sandy Redox (S5) Mesic Spodic (TA6) (MLRA 144A, 145, 149B)  |  |
| Stripped Matrix (S6) Red Parent Material (F21)  |  |
| Dayl Surface (S7) (LDD D. MLDA 140D)  |  |
| Other (Explain in Kenlarks)   |  |
| 3Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.   |  |
| Restrictive Layer (if observed):  |  |
| Type:None Hydric Soil Present? Yes No _✓  |  |
| Depth (inches):   |  |
| Remarks:  |  |
| Digging restriction due to roots .  |  |
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Photo of Sample Plot East



Photo of Sample Plot South



Photo of Sample Plot West



| Project/Site: Flat Creek Solar Pr                           | oject                  | City/County:          | Canajoharie, Montgomery Cou      | inty Sampling Date:           | 2021-Sept-10        |
|---|------------------------|-----------------------|----------------------------------|-------------------------------|---------------------|
| Applicant/Owner: SunEast                                    |                        |                       | State: NY                        | Sampling Point: W             | -NSD-14_UPL-3       |
| Investigator(s): Nick DeJohn, E                             | 3rian Corrigan         |                       | Section, Township                | Range: NA                     |                     |
| Landform (hillslope, terrace, etc.                          | <b>.):</b> Flat        |                       | Local relief (concave, conv      | vex, none): Undulating        | Slope (%): 0 to 1   |
| Subregion (LRR or MLRA):                                    | LRR L                  |                       | <b>Lat:</b> 42.843738896         | 58 <b>Long:</b> -74.531570524 | Datum: WGS84        |
| Soil Map Unit Name: Illion silt                             | t loam, 3 to 8 per     | rcent slopes          |                                  | NWI classifica                | tion:               |
| Are climatic/hydrologic condition                           |                        |                       | of year? Yes _✓_ No              | (If no, explain in Remark     | ·s.)                |
| Are Vegetation, Soil,                                       | or Hydrolos            | gy significant        | tly disturbed? Are "Norm         | al Circumstances" present?    | Yes No              |
| Are Vegetation, Soil,                                       |                        | gy naturally p        |                                  | explain any answers in Remai  |                     |
|   |                        |                       |                                  |                               |                     |
| CLIMANA DV OF FINIDINICS                                    | Attach cita m          | an chawing car        | nnling noint locations tra       | acasta impartant faatura      | c otc               |
| SUMMARY OF FINDINGS – A                                     | Allacii Sile iiia      | ap snowing san        | ripiirig poirit iocatioris, tra  | isects, important reature     | S, etc.             |
| Hydrophytic Vegetation Presen                               | t? Y                   | Yes No _ <b>_/</b> _  |                                  |                               |                     |
| Hydric Soil Present?  | Υ                      | Yes No <b>_∠</b>      | Is the Sampled Area with         | in a Wetland?                 | Yes No⁄_            |
| Wetland Hydrology Present?                                  |                        | Yes No _ <b>_</b> ∠   | If yes, optional Wetland S       | ita ID:                       |                     |
|   |                        |                       |                                  | itte iD.                      |                     |
| Remarks: (Explain alternative p                             | rocedures here o       | or in a separate re   | eport)                           |                               |                     |
| Covertype is UPL. Circumstance                              | s are not norma        | al due to mowing      | of vegetation.                   |                               |                     |
| covertype is OFL. Circumstance                              | 23 01 6 1101 1101 1110 | il due to mowing t    | or vegetation.                   |                               |                     |
|   |                        |                       |                                  |                               |                     |
|   |                        |                       |                                  |                               |                     |
|   |                        |                       |                                  |                               |                     |
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|   |                        |                       |                                  |                               |                     |
|   |                        |                       |                                  |                               |                     |
| HADBOLOCA   |                        |                       |                                  |                               |                     |
| HYDROLOGY   |                        |                       |                                  |                               |                     |
|   |                        |                       |                                  |                               |                     |
| Wetland Hydrology Indicators:                               |                        |                       |                                  |                               |                     |
| • •   |                        |                       |                                  |                               |                     |
| Primary Indicators (minimum o                               | f one is required      | d; check all that ap  | (ylqq                            | Secondary Indicators (minim   | um of two required) |
| •   | •                      | •                     |                                  |                               | •                   |
| Surface Water (A1)  |                        | Water-Staine          | d Leaves (B9)                    | Surface Soil Cracks (B6)      |                     |
| High Water Table (A2)                                       |                        | Aquatic Faun          |                                  | Drainage Patterns (B10)       |                     |
| Saturation (A3)   |                        | Marl Deposits         |                                  | Moss Trim Lines (B16)         |                     |
| Water Marks (B1)  |                        |                       | lfide Odor (C1)                  | Dry-Season Water Table (      | C2)                 |
|   |                        |                       |                                  | Crayfish Burrows (C8)         |                     |
| Sediment Deposits (B2)                                      |                        |                       | zospheres on Living Roots (C3)   | Saturation Visible on Aeri    | al Imagery (C9)     |
| Drift Deposits (B3)   |                        | Presence of F         | Reduced Iron (C4)                | Stunted or Stressed Plant     | • •                 |
| Algal Mat or Crust (B4)                                     |                        | Recent Iron P         | Reduction in Tilled Soils (C6)   | Geomorphic Position (D2)      |                     |
| Iron Deposits (B5)  |                        | Thin Muck Su          | ırface (C7)                      | ·                             |                     |
| Inundation Visible on Aerial                                | Imagery (B7)           | Other (Explai         | n in Remarks)                    | Shallow Aquitard (D3)         |                     |
| Sparsely Vegetated Concave                                  | 0,1                    |                       | ,                                | Microtopographic Relief (     | D4)                 |
| Sparsely vegetated Concave                                  | : Juliace (Do)         |                       |                                  | FAC-Neutral Test (D5)         |                     |
| Field Observations:   |                        |                       |                                  | i , ,                         |                     |
|   |                        |                       |                                  |                               |                     |
| Surface Water Present?                                      | Yes N                  | lo 🟒 De               | epth (inches):                   | _                             |                     |
| Water Table Present?  | Yes N                  | lo <u> </u>           | epth (inches):                   | Wetland Hydrology Present?    | Yes No              |
| Saturation Present?   | Yes N                  | lo / Du               | epth (inches):                   | -                             |                     |
|   | 162 IN                 | 10 <u>7</u> De        |                                  | -                             |                     |
|   |                        |                       |                                  |                               |                     |
|   |                        |                       |                                  |                               |                     |
| (includes capillary fringe)                                 |                        |                       |                                  | •                             |                     |
|   | n gauge, monito        | ring well, aerial pl  | hotos, previous inspections), if | available:                    |                     |
| (includes capillary fringe)                                 | <br>n gauge, monito    | oring well, aerial pi | hotos, previous inspections), if | available:                    |                     |
| (includes capillary fringe)                                 | m gauge, monito        | oring well, aerial pl | hotos, previous inspections), if | available:                    |                     |
| (includes capillary fringe)                                 | n gauge, monito        | oring well, aerial p  | hotos, previous inspections), if | available:                    |                     |
| (includes capillary fringe)                                 | n gauge, monito        | oring well, aerial p  | hotos, previous inspections), if | available:                    |                     |
| (includes capillary fringe)  Describe Recorded Data (stream | n gauge, monito        | oring well, aerial p  | hotos, previous inspections), if | available:                    |                     |
| (includes capillary fringe)                                 | n gauge, monito        | oring well, aerial p  | hotos, previous inspections), if | available:                    |                     |
| (includes capillary fringe)  Describe Recorded Data (stream | n gauge, monito        | oring well, aerial pl | hotos, previous inspections), if | available:                    |                     |
| (includes capillary fringe)  Describe Recorded Data (stream | m gauge, monito        | oring well, aerial p  | hotos, previous inspections), if | available:                    |                     |
| (includes capillary fringe)  Describe Recorded Data (stream | m gauge, monito        | oring well, aerial p  | hotos, previous inspections), if | available:                    |                     |
| (includes capillary fringe)  Describe Recorded Data (stream | m gauge, monito        | oring well, aerial p  | hotos, previous inspections), if | available:                    |                     |
| (includes capillary fringe)  Describe Recorded Data (stream | m gauge, monito        | oring well, aerial p. | hotos, previous inspections), if | available:                    |                     |
| (includes capillary fringe)  Describe Recorded Data (stream | m gauge, monito        | oring well, aerial p  | hotos, previous inspections), if | available:                    |                     |
| (includes capillary fringe)  Describe Recorded Data (stream | m gauge, monito        | oring well, aerial p  | hotos, previous inspections), if | available:                    |                     |
| (includes capillary fringe)  Describe Recorded Data (stream | m gauge, monito        | oring well, aerial p  | hotos, previous inspections), if | available:                    |                     |
| (includes capillary fringe)  Describe Recorded Data (stream | m gauge, monito        | oring well, aerial p  | hotos, previous inspections), if | available:                    |                     |
| (includes capillary fringe)  Describe Recorded Data (stream | m gauge, monito        | oring well, aerial p  | hotos, previous inspections), if | available:                    |                     |

|  | ·   |                 |             |        |   |                 |             |
|--|---|-----------------|-------------|--------|---|-----------------|-------------|
| Number of Dominant Species   18  | Tree Stratum (Plot size: 30 ft )                    |                 |             |        | Dominance Test worksheet:               |                 |             |
| 2.   | ·   | % Cover         | Species?    | Status | =   · · · · · · · · · · · · · · · · · · | 0               | (A)         |
| Across All Strata:   | 1   |                 |             |        |   |                 |             |
| 4.   | 2   |                 |             |        |   | 3               | (B)         |
| Are OBL_FACW, or FAC:  | 3   |                 |             |        |   |                 | <del></del> |
| Prevalence Index worksheet:   Total & Cover of:   Multiply By.   | 4   |                 |             |        | ·                                       | 0               | (A/B)       |
| Total & Cover of:   Multiply By:   | 5.  |                 |             |        | -                                       |                 |             |
| Sapling/Shrub Stratum (Plot size: _15 ft _)  | 6.  |                 |             |        |   | N. A. alatinala | D           |
| Sapling/Shrub Stratum (Plot size: 15 ft   1.   Lonicera morrowii   10   Yes   FACU   FACU species   0   x3 =   0   | 7.  |                 |             |        |   |                 | •           |
| Sapling/Shrub Stratum (Plot size: _15 ft   |   |                 | = Total Cov | er     |   | -               |             |
| 1. Lonicera morrowii  1. Lonicera morrowii  1. Lonicera morrowii  2. Solidago canadensis  3. Galium mollugo  5. No FACU  4. Morrowy FACU  4. Solidago canadensis  5. No FACU  5. Solidago canadensis  6. Solidago canadensis  7. Solidago canadensis  8. Solidago canadensis  9. Solidago canadensis  10. FACU  10 | Sapling/Shrub Stratum (Plot size: 15 ft )           |                 | -           |        |   | -               |             |
| 2.   | • •   | 10              | Yes         | FACU   |   | x 3 =           |             |
| 3.   |   |                 |             | 17100  | · ——                                    | x 4 =           | 220         |
| 4  |   |                 | <del></del> |        | - UPL species 0                         | x 5 =           | 0           |
| Prevalence Index = B/A =4  |   |                 |             |        | Column Totals 55                        | (A)             | 220 (B)     |
| Hydrophytic Vegetation Indicators:   10  |   |                 |             |        | Prevalence Index = B/A =                | 4               |             |
| 10   Total Cover   1- Rapid Test for Hydrophytic Vegetation   2 - Dominance Test is > 50%   3 - Prevalence Index is ≤ 3.0¹   4 - Morphological Adaptations¹ (Provide supporting data in Remarks or on a separate sheet)   2 - Solidago canadensis   40   Yes   FACU   4 - Morphological Adaptations¹ (Provide supporting data in Remarks or on a separate sheet)   Problematic Hydrophytic Vegetation¹ (Explain)   1 - Roaceae   50   Yes   NI   4 - Morphological Adaptations¹ (Provide supporting data in Remarks or on a separate sheet)   Problematic Hydrophytic Vegetation¹ (Explain)   1 - Roaceae   50   No   FACU   5 - Roaceae   5 - Roace    |   |                 |             |        | Hydrophytic Vegetation Indicators:      |                 |             |
| 10   |   |                 |             |        | 1 , , ,                                 | Vegetation      | า           |
| Total Cover  | 7   |                 |             |        |   | -8              |             |
| Herb Stratum (Plot size: _ 5 ft _)  1. Poaceae   |   | 10              | = Total Cov | er     |   |                 |             |
| 1. Paceae 2. Solidago canadensis 3. Galium mollugo 5. No FACU 4. Problematic Hydrophytic Vegetation¹ (Explain) 1 Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic 5. Definitions of Vegetation Stratus 6. Definitions of Vegetation Stratus 7. Eve - Woody plants 3 in. (7.6 cm) or more in diameter breast height (DBH), regardless of height. 8. Sapling/shrub - Woody plants less than 3 in. DBH and greater than or equal to 3.28 ft (1 m) tall. 10. Herb - All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall. Woody Vine Stratum (Plot size: 30 ft ) 1. Woody Vine Stratum (Plot size: 30 ft ) 2. 3. 4. Under the problematic Hydrophytic Vegetation Present? Yes No 1   | <u>Herb Stratum</u> (Plot size: <u>5 ft</u> )       |                 |             |        |   | :1 (Provide     | sunnorting  |
| 2. Solidago canadensis 3. Galium mollugo 5 No FACU 1. Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic 5. Definitions of Vegetation Strata: 6. Tree - Woody plants 3 in. (7.6 cm) or more in diameter breast height (DBH), regardless of height. 8. Sapling/shrub - Woody plants less than 3 in. DBH and greater than or equal to 3.28 ft (1 m) tall. 9. Herb - All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall. 10. Woody Vine Stratum (Plot size: 30 ft ) 1. Woody Vine Stratum (Plot size: 30 ft ) 1. Hydrophytic Vegetation Present? Yes No 4. Use  | 1. Poaceae  | 50              | Yes         | NI     |   |                 | supporting  |
| 3. Galium mollugo 4. Show FACU 4. Show FACU 5. Show FACU 5. Show FACU 6. Show FACU 7. Show FACU 7. Show FACU 8. Show FACU 8. Show FACU 9. Show Facu 1. Show FACU 9. Show Facu 1. Show Facu  | 2. Solidago canadensis                              | 40              | Yes         | FACU   | I                                       |                 | xplain)     |
| 4  | 3. Galium mollugo                                   | 5               | No          | FACU   |   |                 | •           |
| 5. Definitions of Vegetation Strata: 6. Tree - Woody plants 3 in. (7.6 cm) or more in diameter breast height (DBH), regardless of height. 8. Sapling/shrub - Woody plants less than 3 in. DBH and greater than or equal to 3.28 ft (1 m) tall. Herb - All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall. Woody vines - All woody vines greater than 3.28 ft in height. Hydrophytic Vegetation Present? Yes No _✓.  Hydrophytic Vegetation Present? Yes No _✓.  0 = Total Cover  | 4.  |                 |             |        | -                                       | -               | ,gy mast se |
| 6  | 5.  |                 |             |        |   |                 |             |
| 7.   | 6.  |                 |             |        | =                                       | r more in       | diameter at |
| Sapling/shrub – Woody plants less than 3 in. DBH and greater than or equal to 3.28 ft (1 m) tall.  Herb – All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall.  Woody Vine Stratum (Plot size:30 ft)  1   |   |                 |             |        |   |                 | diameter at |
| greater than or equal to 3.28 ft (1 m) tall.  Herb - All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall.  Woody Vine Stratum (Plot size:30 ft)  1.  2.  3.  4.  0 = Total Cover  greater than or equal to 3.28 ft (1 m) tall.  Herb - All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft in height.  Hydrophytic Vegetation Present? Yes No/_  1.  2.  3.  4.  0 = Total Cover  | -   |                 |             |        | - I                                     | _               | DBH and     |
| 10.  11.  12.  Woody Vine Stratum (Plot size: _30 ft _)  1.  2.  3.  4.  0 = Total Cover  Herb - All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall.  Woody vines - All woody vines greater than 3.28 ft in height.  Hydrophytic Vegetation Present? Yes No _✓.  1.  2.  3.  4.  0 = Total Cover   | _   |                 | <del></del> |        | <u> </u>                                |                 | DDIT GITG   |
| size, and woody plants less than 3.28 ft tall.  Woody Vine Stratum (Plot size:30 ft)  1. 2. 3. 4. 0 = Total Cover    Size, and woody plants less than 3.28 ft tall.   Woody vines - All woody vines greater than 3.28 ft in height.   Hydrophytic Vegetation Present? Yes No   All woody vines - All woody vines greater than 3.28 ft in height.   Hydrophytic Vegetation Present? Yes No   All woody vines - All woody vines greater than 3.28 ft in height.   Hydrophytic Vegetation Present? Yes No   All woody vines - All woody vines greater than 3.28 ft in height.   Hydrophytic Vegetation Present? Yes No   All woody vines - All woody vines greater than 3.28 ft in height.   Hydrophytic Vegetation Present? Yes No   |   |                 |             |        | - I -                                   |                 | gardless of |
| 12   |   |                 |             |        | -                                       |                 | ga. a.c c.  |
| Moody Vine Stratum (Plot size: _30 ft)   |   |                 |             |        |   |                 | 3.28 ft in  |
| Woody Vine Stratum (Plot size: _30 ft _)   Hydrophytic Vegetation Present? Yes No _✓   | 12  |                 |             |        |   |                 |             |
| 1  |   | 95              | = Total Cov | er     |   | Voc             | No. 1       |
| 2  | Woody Vine Stratum (Plot size: 30 ft)               |                 |             |        | Hydrophytic vegetation Present?         | res i           | 40 <u>7</u> |
| 3  | 1   |                 |             |        |   |                 |             |
| 4  | 2   |                 |             |        | _                                       |                 |             |
| 0 = Total Cover  | 3   |                 |             |        | _                                       |                 |             |
|  | 4.  |                 |             |        |   |                 |             |
| Remarks: (Include photo numbers here or on a separate sheet.)  |   | 0               | = Total Cov | er     |   |                 |             |
| Remarks: (include prioto numbers nere or on a separate sneet.)   | Demonstrat (Implicate mineral according to the con- |                 | -           |        | _                                       |                 |             |
|  | Remarks: (Include photo numbers here or on a se     | eparate sheet.) |             |        |   |                 |             |
|  |   |                 |             |        |   |                 |             |
|  |   |                 |             |        |   |                 |             |
|  |   |                 |             |        |   |                 |             |
|  |   |                 |             |        |   |                 |             |
|  |   |                 |             |        |   |                 |             |
|  |   |                 |             |        |   |                 |             |
|  |   |                 |             |        |   |                 |             |

| Profile Desc  | ription: (Describe t        | to the de | pth needed to do                | cun       | nent the i        | ndicato          | r or confirm the a  | absence of indicator  | rs.)                                   |
|---------------|-----------------------------|-----------|---------------------------------|-----------|-------------------|------------------|---------------------|-----------------------|--|
| Depth _       | Matrix                      |           | Redox                           | Feat      | tures             |                  |                     |                       |  |
| (inches)      | Color (moist)               | %         | Color (moist)                   | %         | Type <sup>1</sup> | Loc <sup>2</sup> | Tex                 | ture                  | Remarks                                |
| 0 - 20        | 10YR 3/2                    | 100       | _                               |           |                   |                  | Silty Cla           | ay Loam               |  |
|               |                             |           |                                 |           |                   |                  |                     |                       |  |
|               |                             |           |                                 | _         |                   |                  |                     | _                     |  |
|               |                             |           |                                 | _         |                   |                  |                     |                       |  |
|               |                             |           |                                 | _         |                   |                  | -                   |                       |  |
|               |                             |           |                                 | _         |                   |                  |                     |                       |  |
|               |                             |           |                                 | _         |                   |                  |                     |                       |  |
|               |                             | · ·       |                                 | _         |                   |                  |                     |                       |  |
|               |                             |           |                                 | _         |                   |                  |                     |                       |  |
|               |                             |           |                                 | _         |                   |                  |                     |                       |  |
|               |                             |           |                                 | _         |                   |                  | 1                   |                       |  |
|               |                             |           |                                 |           |                   |                  |                     |                       |  |
|               |                             |           |                                 |           |                   |                  |                     |                       |  |
| ¹Tvpe: C = C  | oncentration, D = I         | Depletio  | n. RM = Reduced                 | —<br>Mati | rix. MS =         | Masked           | Sand Grains. 21     | Location: PL = Pore I | Lining, M = Matrix                     |
| Hydric Soil I |                             | - ср.сс.с | .,,                             |           | ,                 |                  | 54.14 5.4.15.       |                       | oblematic Hydric Soils³:               |
| Histosol      |                             |           | Polyvalue Bel                   | 0147 C    | jurfaco (S        | 0) /I DD         | D MI DA 140D)       |                       | •                                      |
|               | ipedon (A2)                 |           | Polyvalue Bell<br>Thin Dark Sur |           |                   |                  |                     |                       | .10) (LRR K, L, MLRA 149B)             |
| Black Hi      |                             |           | Thirt Dark Sur<br>Loamy Mucky   |           |                   |                  |                     |                       | Redox (A16) (LRR K, L, R)              |
| l ——          | en Sulfide (A4)             |           | Loanly Mucky<br>Loamy Gleyed    |           |                   | (LKK K, I        | L)                  |                       | Peat or Peat (S3) (LRR K, L, R)        |
| ,             | d Layers (A5)               |           | Loanly Gleyed<br>Depleted Mat   |           |                   |                  |                     | Dark Surface          | (S7) <b>(LRR K, L)</b>                 |
|               | d Below Dark Surfa          |           |                                 |           |                   |                  |                     | Polyvalue Bel         | ow Surface (S8) (LRR K, L)             |
|               | irk Surface (A12)           |           | Depleted Dark                   |           |                   |                  |                     | Thin Dark Sur         | rface (S9) <b>(LRR K, L)</b>           |
|               | lucky Mineral (S1)          |           | Redox Depres                    |           |                   | ,                |                     |                       | ese Masses (F12) (LRR K, L, R)         |
|               | leyed Matrix (S4)           |           | Redox Depre.                    | 33101     | 13 (10)           |                  |                     | Piedmont Flo          | odplain Soils (F19) <b>(MLRA 149B)</b> |
| -             | •                           |           |                                 |           |                   |                  |                     | Mesic Spodic          | (TA6) (MLRA 144A, 145, 149B)           |
| _             | edox (S5)                   |           |                                 |           |                   |                  |                     | Red Parent M          | laterial (F21)                         |
|               | l Matrix (S6)               |           |                                 |           |                   |                  |                     | Very Shallow          | Dark Surface (TF12)                    |
| Dark Su       | rface (S7) <b>(LRR R, M</b> | ILRA 149  | )B)                             |           |                   |                  |                     | Other (Explain        | n in Remarks)                          |
| 3Indicators   | of hydrophytic veg          | etation a | and wetland hydro               | olog      | y must be         | e preser         | nt, unless disturbe | ed or problematic.    |  |
| -             | ayer (if observed):         |           | ,                               |           | ,                 | İ                | ,                   | '                     |  |
|               | Type:                       |           | None                            |           |                   | Hydric           | Soil Present?       |                       | Yes No⁄_                               |
|               | • •                         |           | None                            |           |                   | liyanc           | Son i resent.       |                       | 163 110 <u></u>                        |
|               | Depth (inches):             |           |                                 |           |                   |                  |                     |                       |  |
| Remarks:      |                             |           |                                 |           |                   |                  |                     |                       |  |
|               |                             |           |                                 |           |                   |                  |                     |                       |  |
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| ]             |                             |           |                                 |           |                   |                  |                     |                       |  |
|               |                             |           |                                 |           |                   |                  |                     |                       |  |



Photo of Sample Plot East



Photo of Sample Plot West



| Project/Site: Flat Creek Solar Pro         | oject                                 | _City/County: Cana     | ajoharie, Mont   | tgomery Cou   | ınty           | Sampling Date: 20           | 21-Sept-13           |
|--|---------------------------------------|------------------------|------------------|---------------|----------------|-----------------------------|----------------------|
| Applicant/Owner: SunEast                   |                                       |                        |                  | State: NY     |                | Sampling Point: W-N         | ISD-15_PUB-1         |
| Investigator(s): Nick DeJohn, B            | rian Corrigan                         |                        | Sectio           | n, Township,  | Range: NA      | A                           |                      |
| Landform (hillslope, terrace, etc.)        | : Depression                          |                        | Local relief (c  | oncave, conv  | /ex, none):_   | Concave                     | Slope (%): 0 to 1    |
| Subregion (LRR or MLRA): L                 | RR L                                  |                        | Lat: 4           | 2.841554069   | 9 Long:_       | -74.5349645243              | Datum: WGS84         |
| Soil Map Unit Name: Burdett                | channery silt loam,                   | 3 to 8 percent slop    | es               |               |                | NWI classification          | on:                  |
| Are climatic/hydrologic condition          |                                       | -                      |                  | Yes No        | (If no         | , explain in Remarks.       | )                    |
| Are Vegetation, Soil,                      |                                       | significantly dis      |                  |               |                | ances" present?             | Yes No               |
| Are Vegetation, Soil,                      | or Hydrology _                        | naturally probl        | ematic?          | (If needed,   | explain an     | y answers in Remarks        | 5.)                  |
|  |                                       |                        |                  |               |                |                             |                      |
| SUMMARY OF FINDINGS – A                    | Attach site map                       | showing samplir        | ng point loca    | ations, trai  | nsects, im     | portant features,           | etc.                 |
| Hydrophytic Vegetation Present             | ? Yes _                               | ✓_ No                  |                  |               |                |                             |                      |
| Hydric Soil Present?                       | Yes _                                 | ✓_ No                  | Is the Sample    | ed Area withi | in a Wetlan    | d? Yes                      | No                   |
| Wetland Hydrology Present?                 | Yes _                                 | ✓_ No                  | If yes, option   | al Wetland S  | ite ID:        | W-I                         | NSD-15               |
| Remarks: (Explain alternative pr           | · · · · · · · · · · · · · · · · · · · |                        |                  |               |                |                             |                      |
| •  | ocedures riere or i                   | i a separate report    | ,                |               |                |                             |                      |
| Covertype is PUB.                          |                                       |                        |                  |               |                |                             |                      |
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| HYDROLOGY                                  |                                       |                        |                  |               |                |                             |                      |
|  |                                       |                        |                  |               |                |                             |                      |
| Wetland Hydrology Indicators:              |                                       |                        |                  |               |                |                             |                      |
|  |                                       |                        |                  |               | Casamalam      |                             | £*                   |
| Primary Indicators (minimum of             | one is required; cr                   | neck all that apply)   |                  |               | Secondary      | <u> Indicators (minimun</u> | n of two required)   |
| (Curface Mater (A1)                        |                                       | Water Ctained Lea      | ), (ac (DO)      |               | Surface        | e Soil Cracks (B6)          |                      |
| ✓ Surface Water (A1)                       |                                       | _ Water-Stained Lea    |                  |               | Draina         | ge Patterns (B10)           |                      |
| ✓ High Water Table (A2)                    |                                       | _ Aquatic Fauna (B1    |                  |               | Moss T         | rim Lines (B16)             |                      |
| ⁄ Saturation (A3)                          |                                       | _ Marl Deposits (B1    |                  |               |                | ason Water Table (C2        | )                    |
| Water Marks (B1)                           |                                       | _ Hydrogen Sulfide     | Odor (C1)        |               | -              | h Burrows (C8)              | ,                    |
| Sediment Deposits (B2)                     | _                                     | _ Oxidized Rhizosph    | neres on Living  | g Roots (C3)  | -              |                             | Imagani (CO)         |
| Drift Deposits (B3)                        | _                                     | Presence of Reduc      | ced Iron (C4)    |               |                | tion Visible on Aerial      |                      |
| Algal Mat or Crust (B4)                    |                                       | _ Recent Iron Reduc    | tion in Tilled 9 | Soils (C6)    |                | d or Stressed Plants (      | (וט                  |
| Iron Deposits (B5)                         | _                                     | _ Thin Muck Surface    |                  | Julius (Cu)   |                | orphic Position (D2)        |                      |
| ✓ Inundation Visible on Aerial I           |                                       | Other (Explain in F    |                  |               | Shallov        | w Aquitard (D3)             |                      |
|  |                                       | _ Otrier (Explain in F | Remarks)         |               | Microt         | opographic Relief (D4       | .)                   |
| Sparsely Vegetated Concave                 | Surface (B8)                          |                        |                  |               |                | eutral Test (D5)            | ,                    |
| Field Observations                         |                                       |                        |                  |               | 1710110        | edital rest (BS)            |                      |
| Field Observations: Surface Water Present? | Yes _∠_ No                            | Denth                  | (inches):        | 60            |                |                             |                      |
| Water Table Present?                       | Yes <u></u> No _                      | '                      | (inches):        | 0             | -<br>Wetland H | lydrology Present?          | Yes No               |
|  |                                       |                        |                  | -             | - Wettand n    | iyurology Fresent:          | 163 _ <b>/</b> _ 140 |
| Saturation Present?                        | Yes 🟒 No _                            | Бериі                  | (inches):        | 0             | -              |                             |                      |
| (includes capillary fringe)                |                                       |                        |                  |               |                |                             |                      |
| Describe Recorded Data (stream             | n gauge, monitorin                    | g well, aerial photos  | s. previous ins  | nections), if | available:     |                             |                      |
|  |                                       | 5 ·····, ····· p······ | , p              | ,             |                |                             |                      |
|  |                                       |                        |                  |               |                |                             |                      |
|  |                                       |                        |                  |               |                |                             |                      |
|  |                                       |                        |                  |               |                |                             |                      |
| Remarks:                                   |                                       |                        |                  |               |                |                             |                      |
|  |                                       |                        |                  |               |                |                             |                      |
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|  |                                       |                        |                  |               |                |                             |                      |

| <u>Tree Stratum</u> (Plot size: <u>30 ft</u> ) |         | Dominant    |        | Dominance Test worksh                          |                    |              |                     |
|--|---------|-------------|--------|--|--------------------|--------------|---------------------|
|  | % Cover | Species?    | Status | Number of Dominant S<br>Are OBL, FACW, or FAC: | •                  | 1            | (A)                 |
| 1.   |         |             |        | Total Number of Domir                          |                    |              |                     |
| 2  |         |             |        | - Across All Strata:                           | ant species        | 1            | (B)                 |
| 3  |         |             |        | Percent of Dominant Sp                         | necies That        |              |                     |
| 4  |         |             |        | - Are OBL, FACW, or FAC:                       |                    | 100          | (A/B)               |
| 5  |         |             |        | Prevalence Index works                         |                    |              |                     |
| 6  |         |             |        | - Total % Cover                                |                    | Multiply B   | v.                  |
| 7  |         |             |        | - OBL species                                  | 10                 | x 1 =        | <del>y.</del><br>10 |
|  | 0       | = Total Cov | er     | FACW species                                   | 0                  | x 2 =        | 0                   |
| Sapling/Shrub Stratum (Plot size: 15 ft)       |         |             |        | FAC species                                    | 0                  | x 3 =        | 0                   |
| 1  |         |             |        | FACU species                                   | 0                  | x 4 =        | 0                   |
| 2.   |         |             |        | - UPL species                                  | 0                  |              | 0                   |
| 3.   |         |             |        | _ · _  |                    | x 5 =        |                     |
| 4.   |         |             |        | - Column Totals                                | 10                 | (A)          | 10 (B)              |
| 5.   |         |             |        | - Prevalence In                                |                    | 1            |                     |
| 6.   |         |             |        | Hydrophytic Vegetation                         |                    |              |                     |
| 7.   |         |             |        | 1- Rapid Test for H                            | lydrophytic V      | egetation    |                     |
| · -  |         | = Total Cov | or     | 2 - Dominance Tes                              |                    |              |                     |
| Herb Stratum (Plot size:5 ft)                  |         | - Total Cov | C1     | 3 - Prevalence Ind                             | ex is $\leq 3.0^1$ |              |                     |
| 1 Myrionhyllum spicatum                        | 10      | Yes         | OBL    | 4 - Morphological                              |                    |              | upporting           |
| 2.   |         | 163         | OBL    | - data in Remarks or on a                      |                    |              |                     |
| 2  |         |             |        | - Problematic Hydro                            | . , .              |              | -                   |
| 3.   |         |             |        | - Indicators of hydric so                      |                    |              | y must be           |
| 4  |         |             |        | present, unless disturb                        | •                  | matic        |                     |
| 5  |         |             |        | Definitions of Vegetation                      |                    |              |                     |
| 6  |         |             |        | _ Tree – Woody plants 3 i                      |                    |              | ameter at           |
| 7  |         |             |        | breast height (DBH), re                        | -                  | _            |                     |
| 8  |         |             |        | Sapling/shrub - Woody                          |                    |              | 3H and              |
| 9  |         |             |        | greater than or equal to                       |                    |              |                     |
| 10   |         |             |        | Herb – All herbaceous (                        | -                  |              | ardless of          |
| 11   |         |             |        | size, and woody plants                         |                    |              |                     |
| 12   |         |             |        | Woody vines – All wood                         | y vines great      | er than 3.2  | 8 ft in             |
|  | 10      | = Total Cov | er     | height.  |                    |              |                     |
| Woody Vine Stratum (Plot size:30 ft)           | <u></u> | -           |        | Hydrophytic Vegetation                         | n Present? \       | ∕es <u> </u> |                     |
| 1.   |         |             |        |  |                    |              |                     |
| 2.   |         |             |        | -  |                    |              |                     |
| 3.   |         |             |        | -  |                    |              |                     |
| 4.   |         |             |        | -  |                    |              |                     |
|  |         | = Total Cov | or     | -  |                    |              |                     |
| <b>*</b> ·                                     | 0       |             |        |  |                    |              |                     |

| Profile Description: (Describe to the depth           | n needed to docum                     | ent the indicator | r or confirm the abs                  | ence of indicators.)                                  |
|---|---------------------------------------|-------------------|---------------------------------------|---|
| Depth Matrix  | Redox Featu                           | res               |                                       |   |
| (inches) Color (moist) % Co                           | olor (moist) %                        | Type¹ Loc²        | Texture                               | Remarks   |
| -   |                                       |                   |                                       |   |
|   |                                       |                   |                                       |   |
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|   | <del></del>                           |                   |                                       | _   |
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|   |                                       |                   |                                       |   |
| ¹Type: C = Concentration, D = Depletion, F            | RM = Reduced Matr                     | ix, MS = Masked   | Sand Grains. <sup>2</sup> Loc         | ation: PL = Pore Lining, M = Matrix.                  |
| Hydric Soil Indicators:                               |                                       |                   | 1                                     | ndicators for Problematic Hydric Soils <sup>3</sup> : |
| 1   | Polyvalue Below St                    |                   | · · · · · · · · · · · · · · · · · · · | 2 cm Muck (A10) <b>(LRR K, L, MLRA 149B)</b>          |
|   | Thin Dark Surface                     |                   | A 149B)                               | Coast Prairie Redox (A16) (LRR K, L, R)               |
|   | Loamy Mucky Mine                      |                   | _)                                    | 5 cm Mucky Peat or Peat (S3) (LRR K, L, R)            |
|   | Loamy Gleyed Mat                      |                   |                                       | Dark Surface (S7) <b>(LRR K, L)</b>                   |
|   | Depleted Matrix (F                    |                   |                                       | Polyvalue Below Surface (S8) (LRR K, L)               |
| Depleted Below Dark Surface (A11)                     |                                       |                   |                                       | Thin Dark Surface (S9) (LRR K, L)                     |
|   | Depleted Dark Sur<br>Redox Depression |                   |                                       | Iron-Manganese Masses (F12) (LRR K, L, R)             |
|   | Redux Depression                      | S (FO)            |                                       | Piedmont Floodplain Soils (F19) (MLRA 149B)           |
| Sandy Gleyed Matrix (S4)                              |                                       |                   |                                       | Mesic Spodic (TA6) <b>(MLRA 144A, 145, 149B)</b>      |
| Sandy Redox (S5)                                      |                                       |                   |                                       | Red Parent Material (F21)                             |
| Stripped Matrix (S6)                                  |                                       |                   |                                       | Very Shallow Dark Surface (TF12)                      |
| Dark Surface (S7) (LRR R, MLRA 149B)                  |                                       |                   |                                       | _∕_ Other (Explain in Remarks)                        |
| <sup>3</sup> Indicators of hydrophytic vegetation and | wetland hydrology                     | must be preser    | nt, unless disturbed                  | or problematic.                                       |
| Restrictive Layer (if observed):                      |                                       |                   |                                       |   |
| Type:   | None                                  | Hydric            | Soil Present?                         | Yes No  |
| Depth (inches):                                       |                                       |                   |                                       |   |
| Remarks:  |                                       | ·                 |                                       |   |
| Due to inundation a clear soil profile was            | unobtainable. Soils                   | are assumed to    | he hydric                             |   |
| Dae to managiona cicar son prome mas                  | a                                     |                   | , 20 mg an ici                        |   |
|   |                                       |                   |                                       |   |
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|   |                                       |                   |                                       |   |
|   |                                       |                   |                                       |   |
|   |                                       |                   |                                       |   |

Hydrology Photos



Photo of Sample Plot North



Photo of Sample Plot East



Photo of Sample Plot West



| oject               | City/County:_Can  | ajoharie, Montgomery Cou   | inty   | Sampling Date: 202   | 21-Sept-13  |
|---------------------|---|--|--|--|---|
|                     | _   | State: NY  | S  | ampling Point: W-N   | SD-15_UPL-1   |
| Brian Corrigan      |   | Section, Township,   | Range: NA  |  |   |
| .): Low Hill        |   | Local relief (concave, conv  | ex, none):   | Convex   | Slope (%): 1 to 3   |
| LRR L               |   | Lat: 42.841687551  | 7 Long: -  | 74.5348411427  | Datum: WGS84  |
| channery silt loar  | m, 3 to 8 percent slop  | es   |  | NWI classificatio  | n:  |
| ns on the site typi | ical for this time of ye  | ear? Yes 🟒 No  | (If no,  | explain in Remarks.)   |   |
| or Hydrology        | y significantly di  | sturbed? Are "Norma  | al Circumsta   | nces" present?   | Yes No  |
| or Hydrology        | y naturally prob  | lematic? (If needed,   | explain any  | answers in Remarks   | .)  |
|                     |   | ng point locations, trar   | nsects, imp  | portant features,  | etc.  |
|                     |   | Is the Sampled Area withi  | n a Wetland  | ? Yes  | s No _ <b>∠</b> _   |
|                     |   | ¦ '  |  |  |   |
| ocedures here of    | r in a separate report  | )  |  |  |   |
| Imagery (B7)        | Water-Stained Lea Aquatic Fauna (B1 Marl Deposits (B1 Hydrogen Sulfide Oxidized Rhizospl Presence of Redu Recent Iron Reduc | 13) 5) Odor (C1) neres on Living Roots (C3) ced Iron (C4) ction in Tilled Soils (C6) e (C7)  | Surface<br>Drainag<br>Moss Tr<br>Dry-Sea<br>Crayfish<br>Saturati<br>Stunted<br>Geomo<br>Shallow  | Soil Cracks (B6) ge Patterns (B10) rim Lines (B16) sson Water Table (C2) n Burrows (C8) ion Visible on Aerial I d or Stressed Plants (I rphic Position (D2)                                  | magery (C9)<br>D1)  |
|                     |   |  | FAC-Ne   | utral Test (D5)  |   |
|                     |   |  |  |  |   |
| Yes No              | Depth Depth   | (inches):  | _  |  |   |
| Yes No              | Depth _ <b>∠</b>  | (inches):  | Wetland Hy   | ydrology Present?  | Yes No  |
| Yes No              | Depth   | (inches):  |  |  |   |
| ICS INC             |   |  | -  |  |   |
|                     |   | s, previous inspections), if a   | <u> </u>   |  |   |
|                     | channery silt loans on the site typ or Hydrolog or Hydrolog Attach site ma t? Ye Ye rocedures here o                        | Attach site map showing sampli  The sample or Hydrology significantly dispressed or Hydrology naturally probes  Attach site map showing sampli  The sample or Hydrology naturally probes  Attach site map showing sampli  The sample or Hydrology naturally probes  Attach site map showing sampli  The sample or Hydrology naturally probes  Attach site map showing sampli  The sample or Hydrology naturally probes  The sample or Hydrology naturally probes  The sample or Hydrology naturally probes  The sample of Hydrology naturally probes | LER L  channery silt loam, 3 to 8 percent slopes  Ins on the site typical for this time of year?  or Hydrology significantly disturbed? or Hydrology naturally problematic?  Attach site map showing sampling point locations, training to the site yes No    Yes No   Is the Sampled Area withing yes No    Yes No   If yes, optional Wetland Surcedures here or in a separate report)  fone is required; check all that apply)  Water-Stained Leaves (B9) Aquatic Fauna (B13) Marl Deposits (B15) Hydrogen Sulfide Odor (C1) Oxidized Rhizospheres on Living Roots (C3) Presence of Reduced Iron (C4) Recent Iron Reduction in Tilled Soils (C6) Thin Muck Surface (C7)  Imagery (B7) Other (Explain in Remarks)  Yes No / Depth (inches): | Lat: 42.8416875517 Long: channery silt loam, 3 to 8 percent slopes Ins on the site typical for this time of year?  or Hydrology significantly disturbed? or Hydrology naturally problematic? | Lat: 42.8416875517 Long: -74.5348411427  channery silt loam, 3 to 8 percent slopes ns on the site typical for this time of year? or Hydrology significantly disturbed? or Hydrology naturally problematic?  Are "Normal Circumstances" present? Or Hydrology naturally problematic?  Are "Normal Circumstances" present? Or Hydrology naturally problematic?  Are "Normal Circumstances" present? Or Hydrology naturally problematic?  Are "Normal Circumstances" present? Or Hydrology naturally problematic?  Are "Normal Circumstances" present? Or Hydrology naturally problematic?  Are "Normal Circumstances" present? Or Hydrology naturally problematic?  It pees No   Is the Sampled Area within a Wetland?  Yes No   If yes, optional Wetland Site ID:  Toccedures here or in a separate report)  Secondary Indicators (minimum Surface Soil Cracks (B6) Drainage Patterns (B10) Moss Trim Lines (B16) Dry-Season Water Table (C2) Crayfish Burrows (C8) Saturation Visible on Aerial I Sturted or Stressed Plants (I Geomorphic Position (D2) Shallow Aquitard (D3) Microtopographic Relief (D4; FAC-Neutral Test (D5)  Yes No Depth (inches): |

|   |                |              |        | T   |              |                 |
|---|----------------|--------------|--------|---|--------------|-----------------|
| <u>Tree Stratum</u> (Plot size: <u>30 ft</u> )    |                | Dominant     |        | Dominance Test worksheet:                               |              |                 |
| ,   | % Cover        | Species?     | Status | Number of Dominant Species That                         | 1            | (A)             |
| 1.  |                |              |        | Are OBL, FACW, or FAC:                                  |              |                 |
| 2.  |                |              |        | Total Number of Dominant Species Across All Strata:     | 2            | (B)             |
| 3   |                |              |        |   |              | <del></del> -   |
| 4   |                |              |        | Percent of Dominant Species That Are OBL, FACW, or FAC: | 50           | (A/B)           |
| 5   |                |              |        | Prevalence Index worksheet:                             | -            |                 |
| 6.  |                |              |        |   | N.A. Jaim I. | D               |
| 7.  |                |              |        | Total % Cover of:                                       | Multiply     | -               |
|   | 0              | = Total Cove | er     | OBL species 0   | x 1 = _      | 0               |
| Sapling/Shrub Stratum (Plot size:15 ft)           | -              | -            |        | FACW species 0  | x 2 =        | 0               |
|   |                |              |        | FAC species 30  | x 3 =        | 90              |
|   |                |              |        | FACU species 57   | x 4 =        | 228             |
| 3.  |                |              |        | - UPL species0  | x 5 =        | 0               |
| 4.  |                |              |        | - Column Totals 87                                      | (A)          | 318 (B)         |
|   |                |              |        | Prevalence Index = B/A =                                | 3.7          |                 |
| 5.  | <del></del>    |              |        | Hydrophytic Vegetation Indicators:                      |              |                 |
| 6.  |                |              |        | 1- Rapid Test for Hydrophytic                           | Vegetation   | 1               |
| 7   |                |              |        | 2 - Dominance Test is > 50%                             | Ü            |                 |
|   | 0              | = Total Cove | er     | 3 - Prevalence Index is $\leq 3.0^{\circ}$              |              |                 |
| <u>Herb Stratum</u> (Plot size: <u>5 ft</u> )     |                |              |        | 4 - Morphological Adaptations                           | ¹ (Provide   | supporting      |
| 1. Galium mollugo                                 | 40             | Yes          | FACU   | data in Remarks or on a separate sl                     |              |                 |
| 2. Apocynum cannabinum                            | 20             | Yes          | FAC    | Problematic Hydrophytic Vege                            |              | (plain)         |
| 3. Cornus racemosa                                | 10             | No           | FAC    | ¹Indicators of hydric soil and wetlar                   |              | -               |
| 4. Solidago canadensis                            | 7              | No           | FACU   | present, unless disturbed or proble                     | -            | 8,              |
| 5. Lonicera morrowii                              | 5              | No           | FACU   | Definitions of Vegetation Strata:                       |              | -               |
| 6. Cichorium intybus                              | 5              | No           | FACU   | Tree – Woody plants 3 in. (7.6 cm) o                    | r more in    | diameter at     |
| 7.  |                |              |        | breast height (DBH), regardless of h                    |              | alameter at     |
| 8.  |                |              |        | Sapling/shrub – Woody plants less t                     | _            | OBH and         |
| 9.  |                |              |        | greater than or equal to 3.28 ft (1 m                   |              |                 |
| 10  |                |              |        | Herb – All herbaceous (non-woody)                       |              | gardless of     |
|   |                |              |        | size, and woody plants less than 3.2                    |              | <b>5</b>        |
| 11.   |                |              |        | Woody vines – All woody vines grea                      |              | .28 ft in       |
| 12  |                |              |        | height.   |              |                 |
|   | 87             | = Total Cove | er     | Hydrophytic Vegetation Present?                         | Vac N        | lo /            |
| Woody Vine Stratum (Plot size: 30 ft)             |                |              |        | Trydrophydic vegetadon i resent:                        | 1631         | VO _ <b>V</b> _ |
| 1.  |                |              |        | -   |              |                 |
| 2   |                |              |        | _   |              |                 |
| 3.  |                |              |        | _   |              |                 |
| 4   |                |              |        | _   |              |                 |
|   | 0              | = Total Cove | er     |   |              |                 |
| Remarks: (Include photo numbers here or on a sep  | arato choot \  | ·            |        |   |              |                 |
| remarks. (include prioto numbers here or on a sep | arate srieet.) |              |        |   |              |                 |
|   |                |              |        |   |              |                 |
|   |                |              |        |   |              |                 |
|   |                |              |        |   |              |                 |
|   |                |              |        |   |              |                 |
|   |                |              |        |   |              |                 |
|   |                |              |        |   |              |                 |
|   |                |              |        |   |              |                 |

| Profile Des  | cription: (Describe t                   | o the d   | epth needed to d | ocun   | nent the i        | indicato | r or confirm the   | absence of indicators.)     |                                  |
|--------------|---|-----------|------------------|--------|-------------------|----------|--------------------|-----------------------------|----------------------------------|
| Depth        | Matrix                                  |           | Redox            | Feat   | ures              |          |                    |                             |                                  |
| (inches)     | Color (moist)                           | %         | Color (moist)    | %      | Type <sup>1</sup> | Loc²     |                    | Texture                     | Remarks                          |
| 0 - 20       | 10YR 3/2                                | 95        | 10YR 5/8         | 5      | С                 | M        | Gravel             | lly Silty Clay Loam         |                                  |
|              |   |           |                  |        |                   |          |                    |                             |                                  |
|              |   |           |                  | _      |                   |          | -                  |                             |                                  |
|              |   |           |                  | _      |                   |          |                    | _                           |                                  |
|              |   |           |                  | _      |                   |          |                    |                             |                                  |
|              | _                                       |           |                  | _      |                   |          |                    |                             |                                  |
|              |   |           |                  | _      |                   |          |                    |                             |                                  |
|              |   | -         |                  | · —    |                   |          |                    |                             |                                  |
|              | _                                       |           |                  |        |                   |          |                    |                             |                                  |
|              |   | . —       |                  | · —    |                   |          |                    |                             |                                  |
|              |   | . —       |                  | · —    |                   |          |                    |                             |                                  |
|              |   | . —       |                  | . —    |                   |          |                    |                             |                                  |
|              |   |           |                  |        |                   |          |                    |                             |                                  |
| ¹Type: C = 0 | Concentration, D = D                    | Depletion | on, RM = Reduced | Mati   | rix, MS =         | Masked   | Sand Grains. 2     | Location: PL = Pore Lining, | M = Matrix.                      |
| Hydric Soil  | Indicators:                             |           |                  |        |                   |          |                    | Indicators for Problema     | atic Hydric Soils³:              |
| Histoso      | I (A1)                                  |           | Polyvalue Be     |        |                   |          |                    | 2 cm Muck (A10) <b>(LF</b>  | RR K, L, MLRA 149B)              |
| Histic E     | oipedon (A2)                            |           | Thin Dark Su     |        |                   |          |                    | Coast Prairie Redox         |                                  |
|              | istic (A3)                              |           | Loamy Muck       | -      |                   | (LRR K,  | L)                 | 5 cm Mucky Peat or          |                                  |
|              | en Sulfide (A4)                         |           | Loamy Gleye      |        |                   |          |                    | Dark Surface (S7) <b>(L</b> |                                  |
|              | d Layers (A5)                           | (444      | Depleted Ma      |        |                   |          |                    | Polyvalue Below Su          |                                  |
|              | d Below Dark Surfa                      | ce (A i i | Depleted Da      |        |                   |          |                    | Thin Dark Surface (S        | 59) <b>(LRR K, L)</b>            |
|              | ark Surface (A12)<br>Jucky Mineral (S1) |           | Redox Depre      |        |                   | )        |                    | Iron-Manganese Ma           | asses (F12) <b>(LRR K, L, R)</b> |
|              |   |           | Redox Depre      | :55101 | 15 (FO)           |          |                    | Piedmont Floodplai          | n Soils (F19) <b>(MLRA 149B)</b> |
| -            | Gleyed Matrix (S4)                      |           |                  |        |                   |          |                    | Mesic Spodic (TA6) (        | MLRA 144A, 145, 149B)            |
| _            | Redox (S5)                              |           |                  |        |                   |          |                    | Red Parent Materia          | l (F21)                          |
|              | d Matrix (S6)                           |           | 25)              |        |                   |          |                    | Very Shallow Dark S         | Surface (TF12)                   |
| Dark Su      | ırface (S7) <b>(LRR R, M</b>            | LRA 14    | 98)              |        |                   |          |                    | Other (Explain in Re        | emarks)                          |
| 3Indicators  | of hydrophytic vege                     | etation   | and wetland hydi | olog   | y must b          | e preser | nt, unless disturb | oed or problematic.         |                                  |
| Restrictive  | Layer (if observed):                    |           |                  |        |                   |          |                    |                             |                                  |
|              | Type:                                   |           | None             |        |                   | Hydric   | Soil Present?      |                             | Yes No/_                         |
|              | Depth (inches):                         |           |                  |        |                   | -        |                    |                             |                                  |
| Remarks:     |   |           |                  |        |                   |          |                    |                             |                                  |
|              |   |           |                  |        |                   |          |                    |                             |                                  |
|              |   |           |                  |        |                   |          |                    |                             |                                  |
|              |   |           |                  |        |                   |          |                    |                             |                                  |
|              |   |           |                  |        |                   |          |                    |                             |                                  |
|              |   |           |                  |        |                   |          |                    |                             |                                  |
|              |   |           |                  |        |                   |          |                    |                             |                                  |
|              |   |           |                  |        |                   |          |                    |                             |                                  |
|              |   |           |                  |        |                   |          |                    |                             |                                  |
|              |   |           |                  |        |                   |          |                    |                             |                                  |
|              |   |           |                  |        |                   |          |                    |                             |                                  |
|              |   |           |                  |        |                   |          |                    |                             |                                  |
|              |   |           |                  |        |                   |          |                    |                             |                                  |
|              |   |           |                  |        |                   |          |                    |                             |                                  |
|              |   |           |                  |        |                   |          |                    |                             |                                  |
|              |   |           |                  |        |                   |          |                    |                             |                                  |
|              |   |           |                  |        |                   |          |                    |                             |                                  |
|              |   |           |                  |        |                   |          |                    |                             |                                  |
|              |   |           |                  |        |                   |          |                    |                             |                                  |
|              |   |           |                  |        |                   |          |                    |                             |                                  |
|              |   |           |                  |        |                   |          |                    |                             |                                  |



Photo of Sample Plot North



Photo of Sample Plot East



Photo of Sample Plot West



| Project/Site: Flat Creek Solar Pr   | oject <b>City/Co</b>  | ounty: Canajoharie, Montgome  | ry County Sam  | pling Date: 2021-Sept-13  |
|---|---|---|--|---|
| Applicant/Owner: SunEast  | _   | Stat  | e: NY Sampl  | ling Point: W-NSD-16_PEM-2  |
| Investigator(s): Nick DeJohn, I   | Brian Corrigan  | Section, Tow  | nship, Range: NA   |   |
| Landform (hillslope, terrace, etc   | .): Depression  | Local relief (concave   | e, convex, none): Conca  | ave Slope (%): 0 to 1   |
| Subregion (LRR or MLRA):  | LRR L   | <b>Lat:</b> 42.8430   | 0884192 <b>Long:</b> -74.53  | 393905882 <b>Datum:</b> WGS84   |
| Soil Map Unit Name: Burdett   | channery silt loam, 8 to 15 p   | percent slopes  | N  | NWI classification:   |
| Are climatic/hydrologic conditio  | ns on the site typical for this   | s time of year? Yes   | ∠_ No (If no, expla  | ain in Remarks.)  |
| Are Vegetation, Soil,  Are Vegetation, Soil,  | or Hydrology natu   | urally problematic? (If no  | 'Normal Circumstances'   | vers in Remarks.)   |
| SUMMARY OF FINDINGS –   | · · · · · · · · · · · · · · · · · · ·   | 1   | s, transects, importa  | ant reatures, etc.  |
| Hydrophytic Vegetation Presen   |   | i   |  |   |
| Hydric Soil Present?  | Yes No _  |   | a within a Wetland?  | Yes No  |
| Wetland Hydrology Present?  | Yes No _  | If yes, optional Wet  | land Site ID:  | W-NSD-16  |
|   |   |   |  |   |
| Wetland Hydrology Indicators:  Primary Indicators (minimum of the primary Indicators)  Surface Water (A1)  High Water Table (A2)  Saturation (A3)  Water Marks (B1)  Sediment Deposits (B2)  Drift Deposits (B3)  Algal Mat or Crust (B4)  Iron Deposits (B5)  Inundation Visible on Aerial  Sparsely Vegetated Concave | Water-1 Aquatic Aquatic Marl De Hydrog Oxidize Present Recent Thin Mi Imagery (B7)  Water-1 | hat apply) Stained Leaves (B9) Fauna (B13) eposits (B15) gen Sulfide Odor (C1) ed Rhizospheres on Living Root ce of Reduced Iron (C4) Iron Reduction in Tilled Soils (Cuck Surface (C7) Explain in Remarks) | — Surface Soil ( — Drainage Pat — Moss Trim Lii — Dry-Season V — Crayfish Burr _ ✓ Saturation Vi | eterns (B10) nes (B16) Nater Table (C2) rows (C8) sible on Aerial Imagery (C9) tressed Plants (D1) Position (D2) itard (D3) aphic Relief (D4) |
|   | V N-  | Donath (in the ca)  |  |   |
| Surface Water Present?  | Yes No  | Depth (inches):   |  |   |
| Water Table Present?  | Yes No  | Depth (inches):   | 10 Wetland Hydrolo   | ogy Present? Yes No   |
| Saturation Present?   | Yes No  | Depth (inches):   | 4  |   |
| (includes capillary fringe)   |   |   |  |   |
| Describe Recorded Data (stream  | gauge, monitoring well, at  | and prioros, previous inspection  | ns, ii avaliabie.  |   |

|  |                |             |        | T  |                            |             |
|--|----------------|-------------|--------|--|----------------------------|-------------|
| <u>Tree Stratum</u> (Plot size: <u>30 ft</u> )   |                | Dominant    |        | Dominance Test worksheet:                              |                            |             |
|  | % Cover        | Species?    | Status | Number of Dominant Species That                        | 2                          | (A)         |
| 1  |                |             |        | Are OBL, FACW, or FAC:                                 |                            |             |
| 2  |                |             |        | Total Number of Dominant Species Across All Strata:    | 2                          | (B)         |
| 3  |                |             |        | Percent of Dominant Species That                       |                            |             |
| 4  |                |             |        | - Are OBL, FACW, or FAC:                               | 100                        | (A/B)       |
| 5  |                |             |        | Prevalence Index worksheet:                            |                            |             |
| 6.   |                |             |        | Total % Cover of:                                      | N. A. Jalim I. J. Dan      |             |
| 7.   |                |             |        |  | <u>Multiply l</u><br>x 1 = | -           |
|  | 0              | = Total Cov | er     | OBL species 35   | _                          | 35          |
| Sapling/Shrub Stratum (Plot size:15 ft)          |                | -           |        | FACW species 45  | x 2 = _                    | 90          |
| 1.   |                |             |        | FAC species 0  | x 3 =                      | 0           |
|  |                |             |        | FACU species 0   | x 4 =                      | 0           |
| 3.   |                |             |        | - UPL species0   | x 5 =                      | 0           |
| 4.   |                |             |        | - Column Totals 80                                     | (A)                        | 125 (B)     |
| 5.   | <del></del>    |             |        | Prevalence Index = B/A =                               | 1.6                        |             |
|  |                |             |        | Hydrophytic Vegetation Indicators:                     |                            |             |
| 6.   |                |             |        | 1- Rapid Test for Hydrophytic                          | Vegetation                 |             |
| 7  |                |             |        | 2 - Dominance Test is >50%                             | Ü                          |             |
|  | 0              | = Total Cov | er     | $\checkmark$ 3 - Prevalence Index is $\le 3.0^{\circ}$ |                            |             |
| <u>Herb Stratum</u> (Plot size: <u>5 ft</u> )    |                |             |        | 4 - Morphological Adaptations                          | 1 (Provide                 | supporting  |
| 1. Onoclea sensibilis                            | 35             | Yes         | FACW   | data in Remarks or on a separate s                     |                            | 2apport8    |
| 2. Leersia oryzoides                             | 25             | Yes         | OBL    | Problematic Hydrophytic Vege                           |                            | plain)      |
| 3. Carex lurida                                  | 10             | No          | OBL    | ¹Indicators of hydric soil and wetlar                  |                            |             |
| 4. Impatiens capensis                            | 10             | No          | FACW   | present, unless disturbed or proble                    | -                          | ,,          |
| 5.   |                |             |        | Definitions of Vegetation Strata:                      |                            |             |
| 6.   |                |             |        | Tree – Woody plants 3 in. (7.6 cm) o                   | r more in c                | liameter at |
| 7.   |                |             |        | breast height (DBH), regardless of h                   |                            | nameter at  |
| 8.   |                |             |        | Sapling/shrub – Woody plants less                      | _                          | BH and      |
| 9.   |                |             |        | greater than or equal to 3.28 ft (1 m                  |                            |             |
| 10   |                |             |        | Herb – All herbaceous (non-woody)                      |                            | ardless of  |
|  |                |             |        | size, and woody plants less than 3.2                   |                            | ,           |
| 11.  |                |             |        | Woody vines – All woody vines grea                     |                            | 28 ft in    |
| 12   |                | <del></del> |        | height.  |                            |             |
|  | 80             | = Total Cov | er     | Hydrophytic Vegetation Present?                        | Voc. / N                   | 0           |
| Woody Vine Stratum (Plot size: 30 ft )           |                |             |        | Trydrophytic vegetation Fresent:                       | 162 <u>^</u> 14            | ·           |
| 1  |                |             |        | -  |                            |             |
| 2.   |                |             |        | _  |                            |             |
| 3  |                |             |        | _  |                            |             |
| 4  |                |             |        |  |                            |             |
|  | 0              | = Total Cov | er     |  |                            |             |
| Demonstrat (Include wheth according to the con-  |                | •           |        |  |                            |             |
| Remarks: (Include photo numbers here or on a sep | parate sheet.) |             |        |  |                            |             |
|  |                |             |        |  |                            |             |
|  |                |             |        |  |                            |             |
|  |                |             |        |  |                            |             |
|  |                |             |        |  |                            |             |
|  |                |             |        |  |                            |             |
|  |                |             |        |  |                            |             |
|  |                |             |        |  |                            |             |

| Depth                   | Matrix               | to the t | Redo                |        |                   | indicator or committee       | he absence of  | indicators.)   |
|-------------------------|----------------------|----------|---------------------|--------|-------------------|------------------------------|----------------|--|
| (inches)                | Color (moist)        | %        | Color (moist)       | %      | Type <sup>1</sup> | Loc² Tex                     | ture           | Remarks  |
| 0 - 20                  | 5YR 4/1              | 90       | 7.5YR 4/6           | 10     | C                 |                              | Loam           |  |
|                         |                      |          |                     |        |                   |                              |                |  |
|                         |                      | _        |                     | _      |                   |                              |                |  |
|                         |                      |          |                     |        |                   | ·                            |                | -  |
|                         |                      |          |                     | _      |                   |                              |                |  |
|                         |                      |          |                     | _      |                   |                              |                |  |
|                         | •                    |          |                     |        |                   |                              |                | -  |
|                         |                      |          |                     | _      |                   |                              |                |  |
|                         |                      |          |                     |        |                   |                              |                |  |
|                         |                      |          |                     |        |                   |                              |                |  |
|                         |                      |          |                     |        |                   |                              |                | -  |
|                         |                      | - —      |                     |        |                   |                              |                | -  |
| 1T C                    |                      |          | DM . Dadwa          |        |                   | Maraland Constant            | 21 ti DI       | Daniel Lining M. Matrice                             |
|                         |                      | Deblet   | iori, Rivi = Reduce | u Mat  | rix, IVIS =       | iviasked Sand Grains         |                | L = Pore Lining, M = Matrix.                         |
| Hydric Soil             |                      |          | Deliciplica         |        |                   | O) (I DD D A4 DA 4 40        | ٠,             | rs for Problematic Hydric Soils³:                    |
| Histosol                |                      |          | •                   |        |                   | 8) (LRR R, MLRA 149)         | 2 (111         | Muck (A10) (LRR K, L, MLRA 149B)                     |
| — Histic Ep<br>Black Hi | oipedon (A2)         |          | Inin Dark St        |        |                   | R, MLRA 149B)                |                | t Prairie Redox (A16) <b>(LRR K, L, R)</b>           |
|                         | en Sulfide (A4)      |          | Loamy Gley          |        |                   | (LKK K, L)                   |                | Mucky Peat or Peat (S3) (LRR K, L, R)                |
|                         | d Layers (A5)        |          | Depleted Ma         |        |                   |                              |                | Surface (S7) (LRR K, L)                              |
|                         | d Below Dark Surfa   | ace (A1  |                     |        |                   |                              |                | value Below Surface (S8) (LRR K, L)                  |
|                         | ark Surface (A12)    |          | Depleted Da         |        |                   | )                            |                | Dark Surface (S9) (LRR K, L)                         |
| Sandy M                 | lucky Mineral (S1)   |          | Redox Depr          | essior | ns (F8)           |                              |                | Manganese Masses (F12) (LRR K, L, R)                 |
| Sandy G                 | Gleyed Matrix (S4)   |          |                     |        |                   |                              |                | mont Floodplain Soils (F19) (MLRA 149B)              |
| Sandy R                 | Redox (S5)           |          |                     |        |                   |                              |                | c Spodic (TA6) (MLRA 144A, 145, 149B)                |
| Stripped                | d Matrix (S6)        |          |                     |        |                   |                              |                | Parent Material (F21)<br>Shallow Dark Surface (TF12) |
| Dark Su                 | rface (S7) (LRR R, N | ILRA 1   | 49B)                |        |                   |                              | -              | r (Explain in Remarks)                               |
| a                       | 61 1 1               |          |                     |        |                   |                              |                |  |
|                         |                      |          | and wetland hyd     | irolog | y must be         | e present, unless dist<br>-l | urbed or probl | ematic.  |
|                         | Layer (if observed): |          | Nama                |        |                   | Lhadaia Cail Dasasant        | •              | Ven / No   |
|                         | Type:                |          | None                |        |                   | Hydric Soil Present          | •              | Yes No   |
|                         | Depth (inches):      |          |                     |        |                   |                              |                |  |
| Remarks:                |                      |          |                     |        |                   |                              |                |  |
|                         |                      |          |                     |        |                   |                              |                |  |
|                         |                      |          |                     |        |                   |                              |                |  |
|                         |                      |          |                     |        |                   |                              |                |  |
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|                         |                      |          |                     |        |                   |                              |                |  |
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|                         |                      |          |                     |        |                   |                              |                |  |
|                         |                      |          |                     |        |                   |                              |                |  |



Photo of Sample Plot East



Photo of Sample Plot West



| Project/Site: Flat Creek Solar Project   | oject                | City/County: Cana                      | ijoharie, Montgomery Cou      | nty Sampling Date                                    | e: 2021-Sept-13           |
|--|----------------------|--|-------------------------------|--|---------------------------|
| Applicant/Owner: SunEast   |                      |  | State: NY                     | Sampling Point:                                      | W-NSD-16_PSS-1            |
| Investigator(s): Nick DeJohn, E  | Brian Corrigan       |  | Section, Township,            | Range: NA  |                           |
| Landform (hillslope, terrace, etc.   | .): Depression       | 1                                      | Local relief (concave, conv   | ex, none): Concave                                   | <b>Slope (%)</b> : 0 to 1 |
| Subregion (LRR or MLRA):   | LRR L                |  | Lat: 42.842959254             | 1 Long: -74.539435431                                | 4 Datum: WGS84            |
| Soil Map Unit Name: Burdett  | channery silt loam   | n, 3 to 8 percent slope                | es                            | NWI classi   | fication:                 |
| Are climatic/hydrologic condition  | ns on the site typic | cal for this time of yea               | ar? Yes 🟒 No                  | (If no, explain in Rem                               | ıarks.)                   |
| Are Vegetation, Soil,  | or Hydrology         | significantly dis                      | turbed? Are "Norm             | al Circumstances" present?                           | Yes _ <b>✓</b> No         |
| Are Vegetation, Soil,  | or Hydrology         | naturally proble                       | ematic? (If needed,           | explain any answers in Rei                           | marks.)                   |
| Hydrophytic Vegetation Present<br>Hydric Soil Present?<br>Wetland Hydrology Present?<br>Remarks: (Explain alternative proceedings) | t? Yes<br>Yes<br>Yes | ✓ No<br>✓ No                           | Is the Sampled Area withi     | n a Wetland?   | Yes/_ No<br>W-NSD-16      |
| HYDROLOGY  Wetland Hydrology Indicators:   | f one is required:   | check all that apply)                  |                               | Secondary Indicators (mir                            |                           |
| Primary Indicators (minimum of   | r one is required; o | cneck all that apply)                  |                               | Secondary Indicators (mir<br>Surface Soil Cracks (B6 | •                         |
| Surface Water (A1)   | _                    | Water-Stained Lea                      |                               | Drainage Patterns (B1)                               |                           |
| High Water Table (A2)  | _                    | Aquatic Fauna (B1                      |                               | Moss Trim Lines (B16)                                | -,                        |
| Saturation (A3)  | -                    | Marl Deposits (B15                     |                               | Dry-Season Water Tab                                 | le (C2)                   |
| Water Marks (B1) Sediment Deposits (B2)  | _                    | Hydrogen Sulfide (                     | eres on Living Roots (C3)     | Crayfish Burrows (C8)                                |                           |
| Drift Deposits (B3)  | -                    | Oxidized Knizosph<br>Presence of Reduc | •                             | Saturation Visible on A                              | erial Imagery (C9)        |
| Algal Mat or Crust (B4)  | _                    |  | tion in Tilled Soils (C6)     | Stunted or Stressed Pl                               | ants (D1)                 |
| Iron Deposits (B5)   | _                    | Thin Muck Surface                      |                               | ✓ Geomorphic Position (                              | D2)                       |
| Inundation Visible on Aerial   | Imagery (B7)         | Other (Explain in R                    |                               | Shallow Aquitard (D3)                                |                           |
| Sparsely Vegetated Concave   |                      | Other (Explain in it                   | erriar (S)                    | Microtopographic Reli                                | ef (D4)                   |
|  |                      |  |                               | ✓ FAC-Neutral Test (D5)                              |                           |
| Field Observations:  | \/a-a                | , Dent (                               | :h).                          |  |                           |
| Surface Water Present?   | Yes No               |  |                               |  |                           |
| Water Table Present?   | Yes No               |  |                               | Wetland Hydrology Prese                              | nt? Yes No                |
| Saturation Present?  | Yes No               | Depth (                                | inches):                      |  |                           |
| (includes capillary fringe)  |                      |  |                               |  | <u> </u>                  |
| (includes capillary fringe)  Describe Recorded Data (strear  | n gauge, monitori    | ng well, aerial photos                 | , previous inspections), if a | available:   |                           |
|  |                      |  |                               |  |                           |
|  |                      |  |                               |  |                           |
| Remarks:   |                      |  |                               |  |                           |
|  |                      |  |                               |  |                           |
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|  |                      |  |                               |  |                           |
|  |                      |  |                               |  |                           |

| <u>Free Stratum</u> (Plot size: <u>30 ft</u> )  |     | Dominant<br>Species? | Indicator<br>Status | Number of Dominant   | Species That    | 3                              | (A)         |
|---|-----|----------------------|---------------------|--|-----------------|--------------------------------|-------------|
| ·   |     |                      |                     | Are OBL, FACW, or FAC  Total Number of Domi                                  |                 | 3                              | (B)         |
| · <u></u>                                       |     |                      |                     | Across All Strata:  Percent of Dominant S                                    |                 | 100                            | (A/B)       |
| j.  |     |                      |                     | Are OBL, FACW, or FAC  |                 |                                |             |
|   |     |                      |                     | Prevalence Index work  |                 | N. A Isian I I                 | D           |
|   |     |                      |                     | <ul> <li>Total % Cover</li> <li>OBL species</li> </ul>                       | <u>01.</u><br>0 | Multiply By:<br>$\times 1 = 0$ |             |
|   | 0   | = Total Cove         | er                  | FACW species   | 65              | x 2 =                          | 130         |
| apling/Shrub Stratum (Plot size: <u>15 ft</u> ) |     |                      |                     | FAC species  | 70              | x3=                            | 210         |
| . Cornus racemosa                               | 50  | Yes                  | FAC                 | - FACU species   | 15              | x 4 =                          | 60          |
|   |     |                      |                     | - UPL species  | 0               | x5=                            | 0           |
|   |     |                      |                     | - Column Totals  | 150             | (A)                            | 400 (B)     |
|   |     |                      |                     | -  | ndex = B/A =    | _                              | 400 (b)     |
| •   |     |                      |                     | -  |                 |                                | <del></del> |
|   |     |                      |                     | Hydrophytic Vegetatio  |                 |                                |             |
|   |     |                      |                     | 1- Rapid Test for  |                 | egetation/                     |             |
|   | 50  | = Total Cove         | er                  | 2 - Dominance Te   |                 |                                |             |
| lerb Stratum (Plot size: <u>5 ft</u> )          | -   | -                    |                     | ✓ 3 - Prevalence Inc   |                 |                                |             |
| . Symphyotrichum novi-belgii                    | 40  | Yes                  | FACW                | 4 - Morphologica   |                 |                                | supporting  |
| Onoclea sensibilis                              | 25  | Yes                  | FACW                | - data in Remarks or on  |                 |                                | -l-:-\      |
| . Solidago canadensis                           | 15  | No                   | FACU                | Problematic Hyd  |                 |                                |             |
| . Euthamia graminifolia                         | 10  | No                   | FAC                 | <ul> <li>Indicators of hydric so</li> <li>present, unless disturb</li> </ul> |                 | -                              | gy must be  |
| o. Cornus racemosa                              | 10  | No                   | FAC                 | Definitions of Vegetati  |                 | Tiacic                         |             |
| j.  |     |                      |                     | Tree – Woody plants 3  |                 | more in a                      | liamotor a  |
| 7.  |     |                      |                     | breast height (DBH), re  |                 |                                | nameter a   |
|   |     |                      |                     | Sapling/shrub - Wood   |                 |                                | BH and      |
|   |     |                      |                     | greater than or equal t  |                 |                                | 211 0110    |
|   |     |                      |                     | Herb – All herbaceous  |                 |                                | ardless of  |
| 0   |     |                      |                     | size, and woody plants   |                 |                                |             |
| 1   |     |                      |                     | Woody vines - All woo  |                 |                                | 28 ft in    |
| 2   | 100 | = Total Cove         |                     | height.  |                 |                                |             |
| Voody Vine Stratum (Plot size: <u>30 ft</u> )   |     | _ TOTAL COVE         | :1                  | Hydrophytic Vegetation   | on Present?     | ∕es _∠_ N                      | 0           |
| ·   |     |                      |                     | -<br>-   |                 |                                |             |
| 3   |     |                      |                     | _  |                 |                                |             |
| l   |     |                      |                     | _  |                 |                                |             |
|   | 0   | = Total Cove         | er                  |  |                 |                                |             |

|              | cription: (Describe          | to the de | =                  |       |                   | ndicato          | or confirm the a            | bsence of indicato | ors.)                                 |
|--------------|------------------------------|-----------|--------------------|-------|-------------------|------------------|-----------------------------|--------------------|---------------------------------------|
| Depth        | Matrix                       |           | Redox              | Feat  | tures             |                  |                             |                    |                                       |
| (inches)     | Color (moist)                | %         | Color (moist)      | %     | Type <sup>1</sup> | Loc <sup>2</sup> | Text                        | ure                | Remarks                               |
| 0 - 7        | 10YR 3/2                     | 100       |                    |       |                   |                  | Silty Cla                   | y Loam             |                                       |
| 7 - 20       | 10YR 3/2                     | 95        | 10YR 3/2           | 5     | C                 | M                | Silty Cla                   | y Loam             |                                       |
|              | •                            |           |                    |       |                   |                  |                             |                    |                                       |
|              |                              |           |                    | _     |                   |                  |                             |                    |                                       |
|              |                              |           |                    | _     |                   |                  |                             |                    |                                       |
|              |                              |           |                    | _     |                   |                  |                             |                    |                                       |
|              |                              |           |                    | _     |                   |                  |                             |                    |                                       |
|              |                              |           |                    | _     |                   |                  |                             |                    |                                       |
|              |                              |           |                    | _     |                   |                  |                             |                    |                                       |
|              |                              |           |                    |       |                   |                  |                             |                    |                                       |
|              |                              |           |                    |       |                   |                  |                             | <u> </u>           |                                       |
|              |                              |           |                    | _     |                   |                  |                             |                    |                                       |
|              |                              |           |                    | _     |                   |                  |                             |                    |                                       |
| 1Typo: C = 0 | Concontration D =            | Doplotic  | n DM = Poducod     |       | iv MC –           | Mackad           | Sand Crains 21              | ocation: DL = Doro | Lining M = Matrix                     |
|              | Concentration, D =           | Depletio  | on, Rivi = Reduced | Mat   | rix, IVIS =       | Masked           | Sand Grains. <sup>2</sup> L |                    | E Lining, M = Matrix.                 |
| Hydric Soil  |                              |           |                    |       |                   |                  |                             | Indicators for Pi  | roblematic Hydric Soils³:             |
| Histoso      |                              |           | Polyvalue Bel      |       |                   |                  |                             | 2 cm Muck (        | (A10) (LRR K, L, MLRA 149B)           |
|              | oipedon (A2)                 |           | Thin Dark Sur      |       |                   |                  |                             | Coast Prairie      | e Redox (A16) <b>(LRR K, L, R)</b>    |
| I            | istic (A3)                   |           | Loamy Mucky        |       |                   | (LRR K, I        | _)                          | 5 cm Mucky         | Peat or Peat (S3) (LRR K, L, R)       |
| ,            | en Sulfide (A4)              |           | Loamy Gleyed       |       |                   |                  |                             | Dark Surface       | e (S7) <b>(LRR K, L)</b>              |
|              | d Layers (A5)                |           | Depleted Mat       |       |                   |                  |                             | Polyvalue Be       | elow Surface (S8) <b>(LRR K, L)</b>   |
|              | d Below Dark Surfa           |           |                    |       |                   |                  |                             |                    | urface (S9) <b>(LRR K, L)</b>         |
|              | ark Surface (A12)            |           | Depleted Dar       |       |                   |                  |                             |                    | nese Masses (F12) (LRR K, L, R)       |
|              | Mucky Mineral (S1)           |           | Redox Depre        | ssior | ıs (F8)           |                  |                             |                    | oodplain Soils (F19) (MLRA 149B)      |
| -            | Gleyed Matrix (S4)           |           |                    |       |                   |                  |                             |                    | c (TA6) <b>(MLRA 144A, 145, 149B)</b> |
| Sandy F      | Redox (S5)                   |           |                    |       |                   |                  |                             | Red Parent I       |                                       |
| Strippe      | d Matrix (S6)                |           |                    |       |                   |                  |                             |                    | v Dark Surface (TF12)                 |
| Dark Su      | ırface (S7) <b>(LRR R, N</b> | /ILRA 149 | 9B)                |       |                   |                  |                             | Other (Expla       |                                       |
|              |                              |           |                    |       |                   |                  |                             | •                  |                                       |
| -            | of hydrophytic veg           |           | and wetland hydr   | olog  | y must be         | e presen         | it, unless disturbe         | ed or problematic. |                                       |
|              | Layer (if observed):         | :         |                    |       |                   |                  |                             |                    |                                       |
|              | Type:                        |           | None               |       |                   | Hydric           | Soil Present?               |                    | Yes No                                |
|              | Depth (inches):              |           |                    |       |                   |                  |                             |                    |                                       |
| Remarks:     |                              |           |                    |       |                   |                  |                             |                    |                                       |
|              |                              |           |                    |       |                   |                  |                             |                    |                                       |
|              |                              |           |                    |       |                   |                  |                             |                    |                                       |
|              |                              |           |                    |       |                   |                  |                             |                    |                                       |
|              |                              |           |                    |       |                   |                  |                             |                    |                                       |
|              |                              |           |                    |       |                   |                  |                             |                    |                                       |
|              |                              |           |                    |       |                   |                  |                             |                    |                                       |
|              |                              |           |                    |       |                   |                  |                             |                    |                                       |
|              |                              |           |                    |       |                   |                  |                             |                    |                                       |
|              |                              |           |                    |       |                   |                  |                             |                    |                                       |
|              |                              |           |                    |       |                   |                  |                             |                    |                                       |
|              |                              |           |                    |       |                   |                  |                             |                    |                                       |
|              |                              |           |                    |       |                   |                  |                             |                    |                                       |
|              |                              |           |                    |       |                   |                  |                             |                    |                                       |
|              |                              |           |                    |       |                   |                  |                             |                    |                                       |
|              |                              |           |                    |       |                   |                  |                             |                    |                                       |
|              |                              |           |                    |       |                   |                  |                             |                    |                                       |
|              |                              |           |                    |       |                   |                  |                             |                    |                                       |
|              |                              |           |                    |       |                   |                  |                             |                    |                                       |
|              |                              |           |                    |       |                   |                  |                             |                    |                                       |
|              |                              |           |                    |       |                   |                  |                             |                    |                                       |
|              |                              |           |                    |       |                   |                  |                             |                    |                                       |

Soil Photos



Photo of Sample Plot East



Photo of Sample Plot South



| Project/Site: Flat Creek Solar Pro  | ject                 | City/County: Cana   | ajoharie, Montgomery Cou                            | ınty  | Sampling Date: 20  | 21-Sept-13               |
|---|----------------------|---|---|---|--|--------------------------|
| Applicant/Owner: SunEast  |                      | _   | State: NY   | 9   | Sampling Point: W-N  | SD-16_UPL-1              |
| Investigator(s): Nick DeJohn, B   | rian Corrigan        |   | Section, Township,                                  | Range: NA   | ·  |                          |
| Landform (hillslope, terrace, etc.)   | : Foot slope         |   | Local relief (concave, conv                         | /ex, none):   | Undulating   | <b>Slope (%):</b> 1 to 3 |
| Subregion (LRR or MLRA): L  | RR L                 |   | Lat: 42.843079115                                   | 3 Long:_  | -74.5393969585   | Datum: WGS84             |
| Soil Map Unit Name: Burdett o   | hannery silt loam,   | 3 to 8 percent slop   | es  |   | NWI classificatio  | n:                       |
| Are climatic/hydrologic condition   | s on the site typica | al for this time of ye  | ar? Yes <u>✓</u> No                                 | (If no,   | , explain in Remarks.)   |                          |
| Are Vegetation, Soil,   | or Hydrology _       | significantly dis   | sturbed? Are "Norm                                  | al Circumsta  | ances" present?  | Yes No                   |
| Are Vegetation, Soil,   | or Hydrology _       | naturally probl   | ematic? (If needed,                                 | explain any   | answers in Remarks   | .)                       |
| SUMMARY OF FINDINGS – A   | · ·                  |   | ng point locations, tran                            | nsects, im  | portant features,  | etc.                     |
| Hydrophytic Vegetation Present  | ? Yes                | No <u></u>  |   |   |  |                          |
| Hydric Soil Present?  | Yes .                | No <u>_</u>   | Is the Sampled Area withi                           | in a Wetland  | d? Ye:   | s No⁄_                   |
| Wetland Hydrology Present?  | Yes _                | No <b>/</b> _   | If yes, optional Wetland S                          | ite ID:   |  |                          |
|   |                      |   |   |   |  |                          |
| Wetland Hydrology Indicators: Primary Indicators (minimum of  Surface Water (A1)  High Water Table (A2)  Saturation (A3)  Water Marks (B1)  Sediment Deposits (B2)  Drift Deposits (B3) | ·<br><br><br>        | _ Water-Stained Lea<br>_ Aquatic Fauna (B1<br>_ Marl Deposits (B1<br>_ Hydrogen Sulfide | 3)<br>5)<br>Odor (C1)<br>neres on Living Roots (C3) | Surface Surface Drainag Moss T Dry-See Crayfisl Saturat | r Indicators (minimum<br>e Soil Cracks (B6)<br>ge Patterns (B10)<br>frim Lines (B16)<br>ason Water Table (C2<br>h Burrows (C8)<br>tion Visible on Aerial | )<br>magery (C9)         |
| Algal Mat or Crust (B4)   | _                    |   | ction in Tilled Soils (C6)                          |   | d or Stressed Plants (   | D1)                      |
| Iron Deposits (B5)  | _                    | _ Thin Muck Surface   |   |   | orphic Position (D2)<br>w Aquitard (D3)  |                          |
| Inundation Visible on Aerial I  | magery (B7)          | _ Other (Explain in F   | Remarks)  |   | opographic Relief (D4  | )                        |
| Sparsely Vegetated Concave  | Surface (B8)         |   |   |   | eutral Test (D5)   | ,                        |
| Field Observations:   |                      |   |   |   | . ,  |                          |
| Surface Water Present?  | Yes No _             | ✓ Depth   | (inches):   |   |  |                          |
| Water Table Present?  | Yes No _             | ✓ Depth   | (inches):   | -<br>Wetland H  | lydrology Present?   | Yes No _ <b>_</b> ✓      |
| Saturation Present?   | Yes No _             |   | (inches):   | -   | ., a. o.og, coc  |                          |
|   | ies ivo _            | у Берин   | (11101163).   | -   |  |                          |
| (includes capillary fringe)   |                      |   | ii  |   |  |                          |
| Describe Recorded Data (stream  | ı gauge, monitorinį  | g well, aerial photos   | s, previous inspections), if a                      | available:  |  |                          |
| Remarks:  |                      |   |   |   |  |                          |
|   |                      |   |   |   |  |                          |
|   |                      |   |   |   |  |                          |
|   |                      |   |   |   |  |                          |
|   |                      |   |   |   |  |                          |
|   |                      |   |   |   |  |                          |
|   |                      |   |   |   |  |                          |
|   |                      |   |   |   |  |                          |

|   |     | Dominant<br>Species? | Indicator<br>Status | Dominance Test worksheet: Number of Dominant Species Tha  | t o           | (4)         |
|---|-----|----------------------|---------------------|---|---------------|-------------|
| . Fraxinus americana                            | 10  | Yes                  | FACU                | Are OBL, FACW, or FAC:                                    |               | (A)         |
|   |     |                      |                     | Total Number of Dominant Specie<br>Across All Strata:     | es <b>3</b>   | (B)         |
| ·   |     |                      |                     | Percent of Dominant Species Tha<br>Are OBL, FACW, or FAC: | 0             | (A/B)       |
| i   |     |                      |                     | Prevalence Index worksheet:                               |               |             |
| ·   |     |                      |                     | - Total % Cover of:                                       | Multiply      | Bv.         |
| •   |     |                      |                     | - OBL species 0   | x 1 =         | 0           |
|   | 10  | = Total Cove         | er                  | FACW species 0  | _ x 2 =       | 0           |
| apling/Shrub Stratum (Plot size: <u>15 ft</u> ) |     |                      |                     | FAC species 5   | _ ^2 -<br>x3= | 15          |
| . Lonicera morrowii                             | 15  | Yes                  | FACU                | FACU species 120  | _ x4=         | 480         |
| •   |     |                      |                     | - UPL species 0   |               | 0           |
|   |     |                      |                     | ·   | _ x5= -       |             |
|   |     |                      |                     | - Column Totals 125                                       | _ (A) _       | 495 (B)     |
| -   |     |                      |                     | Prevalence Index = B/A                                    | =4            |             |
| -   |     |                      |                     | Hydrophytic Vegetation Indicators                         | s:            |             |
|   |     |                      |                     | 1- Rapid Test for Hydrophyti                              | c Vegetation  | ١           |
| •   |     | - Total Cove         |                     | 2 - Dominance Test is > 50%                               |               |             |
|   | 15  | = Total Cove         | er                  | 3 - Prevalence Index is ≤ 3.0                             | 1             |             |
| lerb Stratum (Plot size: <u>5 ft</u> )          | 00  |                      | E4.611              | 4 - Morphological Adaptatio                               | ns¹ (Provide  | supporting  |
| . Solidago canadensis                           | 80  | Yes                  | FACU                | data in Remarks or on a separate                          | sheet)        |             |
| . Galium mollugo                                | 15  | No                   | FACU                | Problematic Hydrophytic Ve                                | getation¹ (Ex | (plain)     |
| . Populus deltoides                             | 5   | No                   | FAC                 | - Indicators of hydric soil and wetl                      | and hydrolo   | gy must be  |
| k <u></u>                                       |     |                      |                     | present, unless disturbed or prob                         | -             | -           |
| i   |     |                      |                     | Definitions of Vegetation Strata:                         |               |             |
| i.  |     |                      |                     | Tree – Woody plants 3 in. (7.6 cm)                        | or more in    | diameter a  |
|   |     |                      |                     | breast height (DBH), regardless of                        |               |             |
| -   |     |                      |                     | Sapling/shrub – Woody plants les                          |               | DBH and     |
| 1   |     |                      |                     | greater than or equal to 3.28 ft (1                       |               |             |
|   |     |                      |                     | Herb – All herbaceous (non-wood                           | y) plants, re | gardless of |
| 0   |     |                      |                     | size, and woody plants less than 3                        |               |             |
| 1   |     |                      |                     | Woody vines – All woody vines gro                         |               | .28 ft in   |
| 2   |     |                      |                     | height.   |               |             |
| Voody Vine Stratum (Plot size: 30 ft )          | 100 | = Total Cove         | er                  | Hydrophytic Vegetation Present?                           | Yes N         | No          |
|   |     |                      |                     | -   |               |             |
|   |     |                      |                     |   |               |             |
| 3.  |     |                      |                     | -   |               |             |
| 2   |     |                      |                     |   |               |             |

| Profile Desc   | cription: (Describe         | to the de |                  |          |                   | indicato          | r or confirm the a  | absence of in   | dicators.)                                    |
|--|-----------------------------|-----------|------------------|----------|-------------------|-------------------|---------------------|-----------------|---|
| Depth _  | Matrix                      |           | Redox            | Feat     | ures              |                   |                     |                 |   |
| (inches)   | Color (moist)               | %         | Color (moist)    | %        | Type <sup>1</sup> | Loc <sup>2</sup>  | Texture             | <u> </u>        | Remarks                                       |
| 0 - 20   | 10YR 3/2                    | 100       |                  | _        |                   |                   | Silt Loan           | m               |   |
|  |                             |           |                  |          |                   |                   |                     |                 |   |
|  |                             |           |                  | _        |                   |                   |                     |                 |   |
|  |                             |           |                  | _        |                   |                   | -                   |                 | _   |
|  |                             |           |                  | _        |                   |                   | -                   |                 |   |
|  |                             |           |                  | _        |                   |                   |                     |                 |   |
|  |                             | ·         |                  | _        |                   |                   |                     |                 |   |
|  |                             |           |                  | _        |                   |                   |                     |                 |   |
|  |                             |           |                  | _        |                   |                   |                     |                 |   |
|  |                             |           |                  | _        |                   |                   |                     |                 |   |
|  |                             |           |                  | _        |                   |                   |                     |                 |   |
|  |                             |           |                  |          |                   |                   |                     |                 |   |
|  |                             |           |                  | _        |                   |                   |                     |                 |   |
| ¹Type: C = C   | ioncentration, D = 1        | Depletio  | n. RM = Reduced  | —<br>Mat | rix. MS =         | Masked            | Sand Grains 21      | l ocation: PL = | = Pore Lining, M = Matrix.                    |
| Hydric Soil  |                             | - ср.сс.о | .,               |          | ,                 | masnea            | . 54.14 (14.115)    |                 | for Problematic Hydric Soils <sup>3</sup> :   |
| Histosol   |                             |           | Polyvalue Bel    | ۲۸۰ د    | iurface (C        | (8) <b>(I D</b> D | R MIRA 1/OR)        |                 | •   |
|  | oipedon (A2)                |           | Polyvalue Bei    |          |                   |                   |                     |                 | Muck (A10) (LRR K, L, MLRA 149B)              |
|  |                             |           |                  |          |                   |                   |                     |                 | Prairie Redox (A16) <b>(LRR K, L, R)</b>      |
| Black Histic (A3)                                  Loamy Mucky Mineral (F1) (LRR K, L) Hydrogen Sulfide (A4)                        Loamy Gleyed Matrix (F2) |                             |           |                  |          |                   |                   | L)                  |                 | lucky Peat or Peat (S3) (LRR K, L, R)         |
|  | d Layers (A5)               |           | Depleted Mat     |          |                   |                   |                     |                 | urface (S7) <b>(LRR K, L)</b>                 |
|  | d Below Dark Surfa          |           |                  |          |                   |                   |                     | -               | lue Below Surface (S8) (LRR K, L)             |
|  | ark Surface (A12)           |           | Depleted Dar     |          |                   | )                 |                     |                 | ark Surface (S9) <b>(LRR K, L)</b>            |
|  | lucky Mineral (S1)          |           | Redox Depres     |          |                   | •                 |                     | Iron-M          | anganese Masses (F12) (LRR K, L, R)           |
|  | ileyed Matrix (S4)          |           | Redox Bepre      | ,5,0,1   | 13 (1 0)          |                   |                     | Piedm           | ont Floodplain Soils (F19) <b>(MLRA 149B)</b> |
| -  | edox (S5)                   |           |                  |          |                   |                   |                     | Mesic           | Spodic (TA6) <b>(MLRA 144A, 145, 149B)</b>    |
| _  |                             |           |                  |          |                   |                   |                     | Red Pa          | rent Material (F21)                           |
|  | d Matrix (S6)               |           |                  |          |                   |                   |                     | Very Sl         | hallow Dark Surface (TF12)                    |
| Dark Su  | rface (S7) <b>(LRR R, M</b> | 1LRA 149  | 9B)              |          |                   |                   |                     | Other           | (Explain in Remarks)                          |
| <sup>3</sup> Indicators  | of hydrophytic veg          | etation a | and wetland hydr | olog     | y must b          | e preser          | nt, unless disturbe | ed or proble    | matic.  |
| Restrictive I  | ayer (if observed):         |           |                  |          |                   |                   |                     |                 |   |
|  | Type:                       |           | None             |          |                   | Hydric            | Soil Present?       | Y               | es No⁄_                                       |
|  | Depth (inches):             | -         |                  |          |                   | '                 |                     |                 |   |
|  | Deptir (menes).             |           |                  |          |                   | 1                 |                     | ·               |   |
| Remarks:   |                             |           |                  |          |                   |                   |                     |                 |   |
|  |                             |           |                  |          |                   |                   |                     |                 |   |
|  |                             |           |                  |          |                   |                   |                     |                 |   |
|  |                             |           |                  |          |                   |                   |                     |                 |   |
|  |                             |           |                  |          |                   |                   |                     |                 |   |
|  |                             |           |                  |          |                   |                   |                     |                 |   |
|  |                             |           |                  |          |                   |                   |                     |                 |   |
|  |                             |           |                  |          |                   |                   |                     |                 |   |
|  |                             |           |                  |          |                   |                   |                     |                 |   |
|  |                             |           |                  |          |                   |                   |                     |                 |   |
|  |                             |           |                  |          |                   |                   |                     |                 |   |
|  |                             |           |                  |          |                   |                   |                     |                 |   |
|  |                             |           |                  |          |                   |                   |                     |                 |   |
|  |                             |           |                  |          |                   |                   |                     |                 |   |
|  |                             |           |                  |          |                   |                   |                     |                 |   |
|  |                             |           |                  |          |                   |                   |                     |                 |   |
|  |                             |           |                  |          |                   |                   |                     |                 |   |
|  |                             |           |                  |          |                   |                   |                     |                 |   |
|  |                             |           |                  |          |                   |                   |                     |                 |   |
|  |                             |           |                  |          |                   |                   |                     |                 |   |
|  |                             |           |                  |          |                   |                   |                     |                 |   |
|  |                             |           |                  |          |                   |                   |                     |                 |   |



Photo of Sample Plot North



Photo of Sample Plot East



Photo of Sample Plot South



| Project/Site: Flat Creek Solar Pro   | ject                 | _City/County: Cana  | ajoharie, Montgomery Cou   | ınty  | Sampling Date: 202   | 21-Sept-13         |
|--|----------------------|---|--|---|--|--------------------|
| Applicant/Owner: SunEast   |                      |   | State: NY  | S   | ampling Point: W-NS  | SD-16_UPL-2        |
| Investigator(s): Nick DeJohn, B  | rian Corrigan        |   | Section, Township,   | Range: NA   |  |                    |
| Landform (hillslope, terrace, etc.)  | : Flat               |   | Local relief (concave, conv  | /ex, none):   | Undulating   | Slope (%): 0 to 1  |
| Subregion (LRR or MLRA): L   | RR L                 |   | Lat: 42.841756870  | 1 Long: -   | 74.5385159367  | Datum: WGS84       |
| Soil Map Unit Name: Burdett  | :hannery silt loam,  | 8 to 15 percent slo   | pes  |   | NWI classification   | n:                 |
| Are climatic/hydrologic condition  | s on the site typica | al for this time of ye  | ar? Yes <u>✓</u> No  | (If no,   | explain in Remarks.)   |                    |
| Are Vegetation, Soil,  | or Hydrology _       | significantly dis   | sturbed? Are "Norm   | al Circumsta  | nces" present?   | Yes 🟒 No           |
| Are Vegetation, Soil,  | or Hydrology _       | naturally probl   | ematic? (If needed,  | explain any   | answers in Remarks.  | )                  |
| SUMMARY OF FINDINGS – A  | attach site map      | showing samplir   | ng point locations, trar   | nsects, imp   | portant features,  | etc.               |
| Hydrophytic Vegetation Present   | ? Yes                | No <b>/</b> _   |  |   |  |                    |
| Hydric Soil Present?   | Yes                  | No <b>/</b> _   | Is the Sampled Area withi  | in a Wetland  | ? Yes  | No <u>_</u>        |
| Wetland Hydrology Present?   |                      | No _ <b>_</b> _   | If yes, optional Wetland S   | ite ID:   |  |                    |
| Remarks: (Explain alternative pro<br>Covertype is UPL.   | seculi es nere or    | . a separate report   | ,  |   |  |                    |
| Wetland Hydrology Indicators: Primary Indicators (minimum of  Surface Water (A1)  High Water Table (A2)  Saturation (A3)  Water Marks (B1)  Sediment Deposits (B2)  Drift Deposits (B3)  Algal Mat or Crust (B4)  Iron Deposits (B5)  Inundation Visible on Aerial I  Sparsely Vegetated Concave |                      | _ Water-Stained Lea<br>_ Aquatic Fauna (B1<br>_ Marl Deposits (B1<br>_ Hydrogen Sulfide<br>_ Oxidized Rhizosph<br>_ Presence of Reduc | 3) 5) Odor (C1) neres on Living Roots (C3) ced Iron (C4) ction in Tilled Soils (C6) e (C7) | Surface Drainag Moss Tr Dry-Sea Crayfish Saturati Stunted Geomo Shallow Microto | Indicators (minimum<br>Soil Cracks (B6)<br>ge Patterns (B10)<br>rim Lines (B16)<br>sson Water Table (C2)<br>in Burrows (C8)<br>ion Visible on Aerial II<br>d or Stressed Plants (D<br>rphic Position (D2)<br>Aquitard (D3) | magery (C9)<br>01) |
| Field Observations:  |                      |   |  | FAC-Ne  | utral Test (D5)  |                    |
| Surface Water Present?   | Yes No _             | ✓ Denth   | (inches):  |   |  |                    |
| Water Table Present?   | Yes No _             | •   | · -  | - Watland Li  | udrology Procent?  | Ves No             |
|  |                      |   | (inches):  | - vveudila H  | ydrology Present?  | Yes No             |
| Saturation Present?  | Yes No _             | <u>✓</u> Depth  | (inches):  | -   |  |                    |
| (includes capillary fringe)  |                      |   |  |   |  |                    |
| Describe Recorded Data (stream Remarks:  | i gauge, monitorin   | g weil, aeriai prioto:  | s, previous inspections), ii a   | avaliable:  |  |                    |
|  |                      |   |  |   |  |                    |

| Dominant Species? | Status Status                           | Dominance Test worksheet:  Number of Dominant Species That Are OBL, FACW, or FAC:  Total Number of Dominant Species Across All Strata: Percent of Dominant Species That Are OBL, FACW, or FAC: Prevalence Index worksheet: Total % Cover of: | 3 33.3   | (A)<br>(B)<br>(A/B)  |
|-------------------|---|--|--|--|
|                   | Status                                  | Are OBL, FACW, or FAC: Total Number of Dominant Species Across All Strata: Percent of Dominant Species That Are OBL, FACW, or FAC: Prevalence Index worksheet:   | 3 33.3   | (B)  |
| = Total Cove      |   | Total Number of Dominant Species Across All Strata: Percent of Dominant Species That Are OBL, FACW, or FAC: Prevalence Index worksheet:  | 33.3   |  |
| = Total Cove      |   | Across All Strata: Percent of Dominant Species That Are OBL, FACW, or FAC: Prevalence Index worksheet:   | 33.3   |  |
| = Total Cove      |   | Percent of Dominant Species That Are OBL, FACW, or FAC: Prevalence Index worksheet:  |  | (A/B)  |
| = Total Cove      |   | Are OBL, FACW, or FAC: Prevalence Index worksheet:   |  | (A/B)  |
| = Total Cove      |   | Prevalence Index worksheet:  |  |  |
| = Total Cove      |   |  |  |  |
| = Total Cove      |   | Total 70 Cover of.   | MUIITINIVE   | Rv.  |
| = Total Cove      |   | - OBL species 0  | <u>Multiply I</u><br>x 1 =   | 0  |
|                   | r                                       | FACW species 0   | . ^ ' <u> </u>   | 0  |
|                   |   | FAC species 15   | . ^2 <u> </u>  | 45   |
|                   |   | · -  | -  | 100  |
|                   |   | · -  | _  |  |
|                   |   |  | -  | 50<br>405 (B)  |
|                   |   |  | –  | 195 (B)  |
|                   |   |  |  |  |
|                   |   | ' ' '  |  |  |
|                   |   | 1- Rapid Test for Hydrophytic  | Vegetation   |  |
| = Total Cove      | r                                       |  |  |  |
|                   |   |  |  |  |
| Yes               | FACII                                   |  |  | supporting   |
|                   |   | -  |  |  |
|                   |   |  |  |  |
|                   |   | -  | -  | gy must be   |
| INO _             | FAC                                     |  | ematic   |  |
|                   |   | _  |  |  |
|                   |   |  |  | liameter at  |
|                   |   | <del>-</del>   | -  | Dilama   |
|                   |   | _   ' ' ' ' ' ' ' ' ' ' ' ' ' ' ' ' ' '  |  | DH allu  |
|                   |   | _   -  |  | ardless of   |
|                   |   | _  |  | ar aress or  |
|                   |   |  |  | 28 ft in   |
|                   |   |  |  |  |
| = Total Cove      | r                                       |  | Voc N  | 0 /  |
|                   |   | Trydrophytic vegetation Fresent:   | 162 14   | · <u>· ·</u>   |
|                   |   | -  |  |  |
|                   |   | _  |  |  |
|                   |   | _  |  |  |
|                   |   |  |  |  |
|                   |   | ='   |  |  |
|                   | = Total Cove<br>Yes<br>Yes<br>Yes<br>No | = Total Cover  Yes FACU Yes FAC Yes UPL  | UPL species 10  Column Totals 50  Prevalence Index = B/A = Hydrophytic Vegetation Indicators:  1- Rapid Test for Hydrophytic 2- Dominance Test is > 50%  3- Prevalence Index is ≤ 3.0¹  4- Morphological Adaptations data in Remarks or on a separate s  Yes FAC  Yes UPL No FAC  Problematic Hydrophytic Vegetation Strata:  Tree - Woody plants 3 in. (7.6 cm) of breast height (DBH), regardless of logical breath or equal to 3.28 ft (1 methoday is and woody plants less greater than or equal to 3.28 ft (1 methoday is and woody plants less than 3.  Woody vines - All woody vines greater theight. | UPL species 10 x 5 =  Column Totals 50 (A)  Prevalence Index = B/A = 3.9  Hydrophytic Vegetation Indicators:  1 - Rapid Test for Hydrophytic Vegetation  2 - Dominance Test is > 50%  3 - Prevalence Index is ≤ 3.0¹  4 - Morphological Adaptations¹ (Provide state in Remarks or on a separate sheet)  Problematic Hydrophytic Vegetation¹ (Expense)  No FAC  Problematic Hydrophytic Vegetation¹ (Expense)  Indicators of hydric soil and wetland hydrology present, unless disturbed or problematic  Definitions of Vegetation Strata:  Tree – Woody plants 3 in. (7.6 cm) or more in described breast height (DBH), regardless of height.  Sapling/shrub – Woody plants less than 3 in. Degreater than or equal to 3.28 ft (1 m) tall.  Herb – All herbaceous (non-woody) plants, regesize, and woody plants less than 3.28 ft tall.  Woody vines – All woody vines greater than 3.5 height. |

| Profile Desc<br>Depth | cription: (Describe<br>Matrix | to the d  | epth needed to d<br>Redox |             |           | indicato         | r or confirm the            | absence of indicator | ·S.)                                   |
|-----------------------|-------------------------------|-----------|---------------------------|-------------|-----------|------------------|-----------------------------|----------------------|--|
| (inches)              | Color (moist)                 | %         | Color (moist)             |             |           | Loc <sup>2</sup> | Tex                         | xture                | Remarks                                |
| 0 - 13                | 10YR 3/2                      | 100       | Color (Inolst)            |             | <u> </u>  |                  |                             | lay Loam             | Kemarks                                |
| 13 - 18               | 10YR 3/2                      | 95        | 5YR 3/4                   | 5           |           | M                |                             | lay Loam             |  |
| 13 10                 | 1011(3/2                      |           | 311(3/1                   | . <u> </u>  |           |                  | Sincy Ci                    | lay Louin            |  |
|                       |                               |           |                           | - —         |           |                  |                             |                      |  |
|                       | -                             |           |                           | - —         |           |                  | •                           | -                    |  |
|                       |                               |           |                           | - —         |           |                  |                             |                      |  |
|                       |                               |           |                           | - —         |           |                  |                             |                      |  |
|                       |                               |           |                           | - —         |           |                  |                             |                      |  |
|                       |                               |           |                           | - —         |           |                  | •                           |                      |  |
|                       |                               |           |                           | - —         |           |                  |                             |                      |  |
|                       |                               |           |                           | - —         |           |                  |                             |                      |  |
|                       |                               |           |                           | - —         |           |                  |                             |                      |  |
| <del></del> .         |                               |           |                           | <del></del> |           |                  | . <del></del>               |                      |  |
|                       |                               | Depletic  | n, RM = Reduced           | Mati        | rıx, MS = | Masked           | I Sand Grains. <sup>2</sup> | Location: PL = Pore  |  |
| Hydric Soil           |                               |           |                           |             |           |                  |                             | Indicators for Pro   | oblematic Hydric Soils³:               |
| Histoso               |                               |           | -                         |             |           |                  | R, MLRA 149B)               | 2 cm Muck (A         | (10) (LRR K, L, MLRA 149B)             |
|                       | oipedon (A2)                  |           | Thin Dark Su              |             |           |                  |                             | Coast Prairie        | Redox (A16) (LRR K, L, R)              |
| Black Hi              | en Sulfide (A4)               |           | Loamy Mucky               |             |           | (LKK K,          | L)                          |                      | Peat or Peat (S3) <b>(LRR K, L, R)</b> |
| -                     | d Layers (A5)                 |           | Depleted Ma               |             |           |                  |                             | Dark Surface         |  |
|                       | d Below Dark Surf             | ace (A11  | •                         |             |           |                  |                             |                      | low Surface (S8) <b>(LRR K, L)</b>     |
|                       | ark Surface (A12)             |           | Depleted Dar              |             |           | )                |                             |                      | rface (S9) <b>(LRR K, L)</b>           |
| Sandy N               | Mucky Mineral (S1)            |           | Redox Depre               |             |           |                  |                             | _                    | ese Masses (F12) (LRR K, L, R)         |
|                       | Gleyed Matrix (S4)            |           | ·                         |             |           |                  |                             |                      | odplain Soils (F19) (MLRA 149B)        |
| Sandy R               | Redox (S5)                    |           |                           |             |           |                  |                             |                      | (TA6) (MLRA 144A, 145, 149B)           |
| -                     | d Matrix (S6)                 |           |                           |             |           |                  |                             | Red Parent M         |  |
|                       | rface (S7) (LRR R, N          | /ILRA 149 | 9B)                       |             |           |                  |                             | Other (Explai        | Dark Surface (TF12)                    |
|                       |                               |           |                           |             |           |                  |                             | •                    | IIII Remarks)                          |
|                       |                               |           | and wetland hydr          | olog        | y must b  | e preser         | nt, unless disturb          | ed or problematic.   |  |
|                       | Layer (if observed):          | ;         |                           |             |           |                  |                             |                      |  |
|                       | Type:                         |           | None                      | _           |           | Hydrid           | Soil Present?               |                      | Yes No/                                |
| -                     | Depth (inches):               |           |                           |             |           |                  |                             |                      |  |
| Remarks:              |                               |           |                           |             |           |                  |                             |                      |  |
|                       |                               |           |                           |             |           |                  |                             |                      |  |
|                       |                               |           |                           |             |           |                  |                             |                      |  |
|                       |                               |           |                           |             |           |                  |                             |                      |  |
| ı                     |                               |           |                           |             |           |                  |                             |                      |  |
|                       |                               |           |                           |             |           |                  |                             |                      |  |
|                       |                               |           |                           |             |           |                  |                             |                      |  |
|                       |                               |           |                           |             |           |                  |                             |                      |  |
|                       |                               |           |                           |             |           |                  |                             |                      |  |
|                       |                               |           |                           |             |           |                  |                             |                      |  |
|                       |                               |           |                           |             |           |                  |                             |                      |  |
|                       |                               |           |                           |             |           |                  |                             |                      |  |
|                       |                               |           |                           |             |           |                  |                             |                      |  |
|                       |                               |           |                           |             |           |                  |                             |                      |  |
|                       |                               |           |                           |             |           |                  |                             |                      |  |
|                       |                               |           |                           |             |           |                  |                             |                      |  |
|                       |                               |           |                           |             |           |                  |                             |                      |  |
|                       |                               |           |                           |             |           |                  |                             |                      |  |
|                       |                               |           |                           |             |           |                  |                             |                      |  |
|                       |                               |           |                           |             |           |                  |                             |                      |  |
|                       |                               |           |                           |             |           |                  |                             |                      |  |



Photo of Sample Plot North



Photo of Sample Plot West



| Project/Site: Flat Creek Solar Pro   | ject             | C                               | ity/County: Cana  | joharie, Montgomery Cou  | inty <b>Sai</b>  | mpling Date: 2021-  | Sept-13           |
|--|------------------|---------------------------------|---|--|--|---|-------------------|
| Applicant/Owner: SunEast   | -                |                                 |   | State: NY  |  | oling Point: W-NSD  |                   |
| Investigator(s): Nick DeJohn, B  | rian Corrigan    |                                 |   | Section, Township,   | Range: NA  |   |                   |
| Landform (hillslope, terrace, etc.)  | : Depress        | ion                             | I   | <br>Local relief (concave, conv  | ex, none): Con   | cave  | Slope (%): 0 to 1 |
| Subregion (LRR or MLRA):   | RR L             |                                 |   | <b>Lat:</b> 42.843601936   | 5 <b>Long:</b> -74.5   |   | atum: WGS84       |
| Soil Map Unit Name: Appleton   | silt loam, 3 to  | 8 perc                          | ent slopes  |  |  | NWI classification:   |                   |
| Are climatic/hydrologic condition  | s on the site ty | pical f                         | or this time of yea   | ır? Yes <u>✓</u> No  | (If no, exp  | lain in Remarks.)   |                   |
| Are Vegetation, Soil,  | or Hydrold       | gy                              | _ significantly dist  | turbed? Are "Norm  | al Circumstance  | s" present? Ye  | s No              |
| Are Vegetation, Soil,  | or Hydrolo       | gy                              | _ naturally proble  | ematic? (If needed,  | explain any ans  | wers in Remarks.)   |                   |
|  |                  |                                 |   |  |  |   |                   |
| SUMMARY OF FINDINGS – A  | ttach site m     | ap sh                           | nowing samplin  | g point locations, trai  | nsects, import   | tant features, et   | ς.                |
| Hydrophytic Vegetation Present   | ? \              | ′es _ <b>_</b>                  | No  |  |  |   |                   |
| Hydric Soil Present?   | Υ                | ′es                             | No  | Is the Sampled Area withi  | n a Wetland?   | Yes   | No                |
| Wetland Hydrology Present?   | Υ                | es                              | _ No  | If yes, optional Wetland S   | ite ID:  | W-NSI   | D-17              |
| Remarks: (Explain alternative pro<br>Covertype is PSS.   | ocedures here    | or in a                         | a separate report)  |  |  |   |                   |
| HYDROLOGY  Wetland Hydrology Indicators:  Primary Indicators (minimum of  Surface Water (A1)  High Water Table (A2)  Saturation (A3)  Water Marks (B1)  Sediment Deposits (B2)  Drift Deposits (B3)  Algal Mat or Crust (B4)  Iron Deposits (B5)  Inundation Visible on Aerial I  Sparsely Vegetated Concave   | magery (B7)      | V<br>A<br>N<br>C<br>P<br>R<br>T | Vater-Stained Leav<br>Aquatic Fauna (B13<br>Marl Deposits (B15<br>Hydrogen Sulfide C<br>Dxidized Rhizospho<br>Presence of Reduc | 3) ) ) Odor (C1) eres on Living Roots (C3) ed Iron (C4) cion in Tilled Soils (C6) (C7) | Surface Soil Drainage Pa Moss Trim I Dry-Season Crayfish Bu Saturation I Stunted or I Geomorphi Shallow Aqu Microtopog | Water Table (C2)<br>rrows (C8)<br>Visible on Aerial Ima<br>Stressed Plants (D1<br>c Position (D2)<br>uitard (D3)<br>graphic Relief (D4) | agery (C9)        |
| Field Observations:  |                  |                                 |   |  | _ <u>✓</u> FAC-Neutra  | 11 1630 (D3)  |                   |
| Surface Water Present?   | Yes I            | No 🗸                            | _ Depth (i  | nches):  |  |   |                   |
| Water Table Present?   | Yes I            |                                 | •   | -  | -  <br>Wetland Hydro   | alogy Present?  | Yes No            |
|  |                  |                                 |   | · -  | -  | nogy i resent:  |                   |
| Saturation Present?  | Yes I            | NO                              | _ Depth (i  |  | -  |   |                   |
| (includes capillary fringe)  |                  |                                 |   |  | 1  |   |                   |
| Describe Recorded Data (stream Remarks:  | i gauge, monit   | oring v                         | veii, aeriai pnotos,  | previous inspections), if  | avaliable:   |   |                   |
| The state of the s |                  |                                 |   |  |  |   |                   |

| Tree Stratum (Plot size:30 ft)                |    | Dominant<br>Species? | Indicator<br>Status | Dominance Test work  Number of Dominant  Are OBL, FACW, or FA | Species That  | 4            | (A)           |
|---|----|----------------------|---------------------|---|---------------|--------------|---------------|
| ·<br>   |    |                      |                     | Total Number of Dom Across All Strata:                        |               | 4            | (B)           |
|   |    |                      |                     | Percent of Dominant Are OBL, FACW, or FA                      |               | 100          | (A/B)         |
|   |    |                      |                     | Prevalence Index wor  | ksheet:       |              |               |
| ·   |    |                      |                     | - <u>Total % Cove</u>   | r of:         | Multiply I   | <u>Зу:</u>    |
| ·   |    |                      |                     | - OBL species   | 0             | x 1 =        | 0             |
|   | 0  | = Total Cov          | er                  | FACW species  | 60            | x 2 =        | 120           |
| apling/Shrub Stratum (Plot size: 15 ft )      |    |                      |                     | FAC species   | 70            | x 3 =        | 210           |
| . Cornus racemosa                             | 40 | Yes                  | FAC                 | - FACU species  | 15            | x 4 =        | 60            |
| . Salix bebbiana                              | 15 | Yes                  | FACW                | - UPL species   | 0             | x 5 =        | 0             |
| ·   |    |                      |                     | - Column Totals   | 145           | (A)          | 390 (B)       |
|   |    |                      |                     | - Prevalence  | Index = B/A = | 2.7          | ( )           |
| ·   |    |                      |                     |   |               |              | <del></del> - |
| ·   |    |                      |                     | Hydrophytic Vegetation  |               | lagatation   |               |
|   |    |                      |                     | 1- Rapid Test for   |               | regetation   |               |
|   | 55 | = Total Cov          | er                  | 2 - Dominance T   |               |              |               |
| lerb Stratum (Plot size: <u>5 ft</u> )        |    |                      |                     | ✓ 3 - Prevalence In   |               | 1 (Drovido d | unnortina     |
| . Onoclea sensibilis                          | 33 | Yes                  | FACW                | 4 - Morphologica<br>- data in Remarks or or                   |               |              | supporting    |
| . Cornus racemosa                             | 25 | Yes                  | FAC                 | - Problematic Hyd   |               | -            | nlain)        |
| . Solidago canadensis                         | 15 | No                   | FACU                | - Indicators of hydric s                                      |               |              |               |
| . Symphyotrichum novae-angliae                | 12 | No                   | FACW                | present, unless distur  |               | , .          | gy must be    |
| . Euthamia graminifolia                       | 5  | No                   | FAC                 | Definitions of Vegetat  |               | matic        |               |
|   |    |                      |                     | Tree – Woody plants 3   |               | r more in c  | liamotor a    |
|   |    |                      |                     | breast height (DBH), r  |               |              | nameter a     |
|   |    |                      |                     | Sapling/shrub - Wood  | -             | _            | BH and        |
|   |    |                      |                     | greater than or equal   |               |              | Di i di id    |
| · .   |    |                      |                     | Herb – All herbaceous   |               |              | ardless of    |
| 0   |    |                      |                     | size, and woody plant   |               |              |               |
| 1.  |    |                      |                     | Woody vines - All woo   |               |              | 28 ft in      |
| 2   |    |                      |                     | height.   | , ,           |              |               |
| Voody Vine Stratum (Plot size: <u>30 ft</u> ) | 90 | = Total Cov          | er                  | Hydrophytic Vegetati  | on Present?   | ∕es <u> </u> | 0             |
| ·   |    |                      |                     | -   |               |              |               |
| ·   |    |                      |                     | -   |               |              |               |
| ··  |    |                      |                     | -   |               |              |               |
| l   |    | = Total Cov          | or                  | -   |               |              |               |
|   |    | _ 10tal COV          | er                  |   |               |              |               |

| Profile Desc  | cription: (Describe  | to the de | epth needed to do | ocun   | nent the i        | ndicato          | or confirm the a            | bsence of indicato | ors.)                                  |
|---------------|----------------------|-----------|-------------------|--------|-------------------|------------------|-----------------------------|--------------------|--|
| Depth _       | Matrix               |           | Redox             | Feat   | tures             |                  |                             |                    |  |
| (inches)      | Color (moist)        | %         | Color (moist)     | %      | Type <sup>1</sup> | Loc <sup>2</sup> | Text                        | ure                | Remarks                                |
| 0 - 3         | 10YR 3/2             | 100       |                   |        |                   |                  | Silt Lo                     | oam                |  |
| 3 - 20        | 10YR 3/2             | 95        | 10YR 3/2          | 5      | С                 | M                | Silty Clay                  | y Loam             |  |
|               |                      |           |                   | _      |                   |                  |                             |                    |  |
|               |                      |           |                   | _      |                   |                  |                             |                    |  |
|               |                      |           |                   | _      |                   |                  |                             |                    |  |
|               |                      |           |                   | _      |                   |                  |                             |                    |  |
|               |                      |           |                   | _      |                   |                  |                             |                    |  |
|               |                      |           |                   | _      |                   |                  |                             |                    |  |
|               |                      |           |                   | _      |                   |                  |                             |                    |  |
|               |                      |           |                   | _      |                   |                  |                             |                    |  |
|               |                      |           |                   | _      |                   |                  |                             |                    |  |
|               |                      |           |                   | _      |                   |                  |                             |                    |  |
|               |                      |           |                   | _      |                   |                  |                             |                    |  |
| ¹Type: C = C  | oncentration, D =    | Depletio  | n, RM = Reduced   | Mat    | rix, MS =         | Masked           | Sand Grains. <sup>2</sup> L | ocation: PL = Pore | e Lining, M = Matrix.                  |
| Hydric Soil I | ndicators:           |           |                   |        |                   |                  |                             | Indicators for P   | roblematic Hydric Soils³:              |
| Histosol      | (A1)                 |           | Polyvalue Bel     | ow S   | urface (S         | 8) <b>(LRR</b> I | R, MLRA 149B)               | 2 cm Muck (        | (A10) (LRR K, L, MLRA 149B)            |
|               | oipedon (A2)         |           | Thin Dark Sur     |        |                   |                  |                             |                    | e Redox (A16) <b>(LRR K, L, R)</b>     |
| Black Hi      | •                    |           | Loamy Mucky       |        |                   |                  |                             | <del></del>        | Peat or Peat (S3) <b>(LRR K, L, R)</b> |
| Hydroge       | en Sulfide (A4)      |           | Loamy Gleyed      | d Ma   | trix (F2)         |                  |                             | Dark Surface       |  |
| Stratifie     | d Layers (A5)        |           | Depleted Mat      | rix (I | <del>-</del> 3)   |                  |                             | <del></del>        | elow Surface (S8) (LRR K, L)           |
| Deplete       | d Below Dark Surfa   | ace (A11  | )_✓ Redox Dark S  | urfa   | ce (F6)           |                  |                             |                    | urface (S9) <b>(LRR K, L)</b>          |
| Thick Da      | ark Surface (A12)    |           | Depleted Dar      | k Su   | rface (F7)        | )                |                             |                    | nese Masses (F12) (LRR K, L, R)        |
| Sandy M       | lucky Mineral (S1)   |           | Redox Depre       | ssior  | ıs (F8)           |                  |                             |                    | loodplain Soils (F19) (MLRA 149B)      |
| Sandy G       | ileyed Matrix (S4)   |           |                   |        |                   |                  |                             |                    | ic (TA6) <b>(MLRA 144A, 145, 149B)</b> |
| Sandy R       | edox (S5)            |           |                   |        |                   |                  |                             | Red Parent         |  |
| Stripped      | d Matrix (S6)        |           |                   |        |                   |                  |                             |                    | w Dark Surface (TF12)                  |
| Dark Su       | rface (S7) (LRR R, N | /ILRA 149 | 9B)               |        |                   |                  |                             | Other (Expla       |  |
|               |                      |           |                   |        |                   |                  |                             | •                  |  |
| -             | of hydrophytic veg   |           | and wetland hydr  | olog   | y must be         | e presen         | it, unless disturbe         | ed or problematic. |  |
|               | _ayer (if observed): |           |                   |        |                   |                  |                             |                    |  |
|               | Type:                |           | None              |        |                   | Hydric           | Soil Present?               |                    | Yes No                                 |
|               | Depth (inches):      |           |                   |        |                   |                  |                             |                    |  |
| Remarks:      |                      |           |                   |        |                   |                  |                             |                    |  |
|               |                      |           |                   |        |                   |                  |                             |                    |  |
|               |                      |           |                   |        |                   |                  |                             |                    |  |
|               |                      |           |                   |        |                   |                  |                             |                    |  |
|               |                      |           |                   |        |                   |                  |                             |                    |  |
|               |                      |           |                   |        |                   |                  |                             |                    |  |
|               |                      |           |                   |        |                   |                  |                             |                    |  |
|               |                      |           |                   |        |                   |                  |                             |                    |  |
|               |                      |           |                   |        |                   |                  |                             |                    |  |
|               |                      |           |                   |        |                   |                  |                             |                    |  |
|               |                      |           |                   |        |                   |                  |                             |                    |  |
|               |                      |           |                   |        |                   |                  |                             |                    |  |
|               |                      |           |                   |        |                   |                  |                             |                    |  |
|               |                      |           |                   |        |                   |                  |                             |                    |  |
|               |                      |           |                   |        |                   |                  |                             |                    |  |
|               |                      |           |                   |        |                   |                  |                             |                    |  |
|               |                      |           |                   |        |                   |                  |                             |                    |  |
|               |                      |           |                   |        |                   |                  |                             |                    |  |
|               |                      |           |                   |        |                   |                  |                             |                    |  |
|               |                      |           |                   |        |                   |                  |                             |                    |  |
|               |                      |           |                   |        |                   |                  |                             |                    |  |
|               |                      |           |                   |        |                   |                  |                             |                    |  |

Soil Photos



Photo of Sample Plot North



Photo of Sample Plot East



| Project/Site: Flat Creek Solar Pro  | ject                  | City/County: Cana  | ajoharie, Montgomery Cou   | ınty   | Sampling Date: 202  | 21-Sept-13         |
|---|-----------------------|--|--|--|---|--------------------|
| Applicant/Owner: SunEast  |                       |  | State: NY  |  | Sampling Point: W-NS  | SD-17_UPL-1        |
| Investigator(s): Nick DeJohn, B   | rian Corrigan         |  | Section, Township,   | Range: NA  | 4   |                    |
| Landform (hillslope, terrace, etc.)   | : Low Hill            |  | Local relief (concave, conv  | /ex, none):_   | Convex  | Slope (%): 1 to 3  |
| Subregion (LRR or MLRA): L  | RR L                  |  | Lat: 42.843658640  | 1 Long:  | -74.5388132428  | Datum: WGS84       |
| Soil Map Unit Name: Appletor  | ı silt loam, 3 to 8 p | percent slopes   |  |  | NWI classification  | n:                 |
| Are climatic/hydrologic condition   | s on the site typic   | cal for this time of yea   | ar? Yes <u></u> ✓ No   | (If no   | , explain in Remarks.)  |                    |
| Are Vegetation, Soil,   |                       | significantly dis  |  |  | ·   | Yes No             |
| Are Vegetation, Soil,   | or Hydrology          | naturally proble   | ematic? (If needed,  | explain any  | y answers in Remarks.   | .)                 |
| SUMMARY OF FINDINGS – A   | Nttach site map       | showing samplir  | ng point locations, trar   | nsects, im   | portant features, o   | etc.               |
| Hydrophytic Vegetation Present  | ? Yes                 | No   |  |  |   |                    |
| Hydric Soil Present?  | Yes                   | No _ <b>_</b>  | Is the Sampled Area with   | in a Wetlan  | ıd? Yes   | s No⁄_             |
| Wetland Hydrology Present?  | Yes                   | No <b>_</b>  | If yes, optional Wetland   | Site ID:   |   |                    |
|   |                       |  |  |  |   |                    |
| Wetland Hydrology Indicators:  Primary Indicators (minimum of  Surface Water (A1)  High Water Table (A2)  Saturation (A3)  Water Marks (B1)  Sediment Deposits (B2)  Drift Deposits (B3)  Algal Mat or Crust (B4)  Iron Deposits (B5)  Inundation Visible on Aerial I  Sparsely Vegetated Concave |                       | Water-Stained Lea Aquatic Fauna (B1: Marl Deposits (B1: Hydrogen Sulfide ( Oxidized Rhizosph Presence of Reduc | 3) 5) Odor (C1) Heres on Living Roots (C3) Hed Iron (C4) Hition in Tilled Soils (C6) He (C7) | Surface<br>Draina<br>Moss T<br>Dry-Se.<br>Crayfis<br>Satural<br>Stuntel<br>Geomo | y Indicators (minimum<br>e Soil Cracks (B6)<br>ige Patterns (B10)<br>frim Lines (B16)<br>isason Water Table (C2)<br>ish Burrows (C8)<br>tion Visible on Aerial I<br>id or Stressed Plants (I<br>orphic Position (D2)<br>w Aquitard (D3)<br>opographic Relief (D4) | magery (C9)<br>D1) |
|   |                       |  |  | FAC-Ne   | eutral Test (D5)  |                    |
| Field Observations:   | Voc N-                | / Donth /  | inchas):   |  |   |                    |
| Surface Water Present?  | Yes No                |  | inches):   | -[   |   |                    |
| Water Table Present?  | Yes No                |  | inches):   | - Wetland H  | Hydrology Present?  | Yes No             |
| Saturation Present?   | Yes No                | Depth (  | inches):   | _  |   |                    |
| (includes capillary fringe)   |                       |  |  |  |   |                    |
| Describe Recorded Data (stream Remarks:   | i gauge, monitorir    | ng weii, aeriai photos   | , previous inspections), ii a  | avallable:   |   |                    |
|   |                       |  |  |  |   |                    |

|              | Dominant<br>Species?      | Indicator<br>Status | Dominance Test works Number of Dominant S |   | 9   | (4)  |
|--------------|---------------------------|---------------------|---|---|---|--|
| _            |                           |                     | Are OBL, FACW, or FAC                     | •   |   | (A)  |
|              |                           |                     | Total Number of Domi                      | nant Species  | 4   | (B)  |
|              |                           |                     |   |   | 75  | (A/B)  |
|              |                           |                     |   |   |   |  |
|              |                           |                     |   |   | Multiply  | Bv:  |
|              |                           |                     |   |   |   | 0  |
| 0            | = Total Cove              | r                   | ·   | 0   | -   | 0  |
|              |                           |                     | -   |   | -   | 315  |
| 25           | Yes                       | FAC                 |   |   | -   | 120  |
| 10           | Yes                       | FAC                 |   |   | -   | 0  |
|              |                           |                     | <del>-</del>                              |   | _   | 435 (B)  |
|              |                           |                     | -   |   | _   | 433 (B)  |
|              |                           |                     | -   |   | 3.2   |  |
|              |                           |                     |   |   |   |  |
|              |                           |                     | •   |   | egetation/  |  |
| 35           | = Total Cove              | r                   |   |   |   |  |
|              | =                         |                     |   |   |   |  |
| 60           | Yes                       | FAC                 |   |   |   | supporting   |
|              |                           |                     |   |   |   |  |
|              |                           |                     | -   |   |   |  |
|              |                           |                     | -   |   | -   | gy must be   |
|              |                           | TACO                | -   |   | matic   |  |
|              |                           |                     | _   |   |   |  |
|              |                           |                     | - , ,                                     |   |   | diameter a   |
|              |                           |                     |   |   |   | NDLLI  |
|              |                           |                     |   | -   |   | obh and  |
|              |                           |                     | _   ~                                     |   |   | tardlace of  |
|              |                           |                     |   |   |   | gai uless oi   |
|              |                           |                     |   |   |   | 28 ft in   |
|              |                           |                     | =   | ay viries great   | iei tilali 5.   | 2011111  |
| 100          | = Total Cove              | r                   |   | - D12 \   | / <i>(</i> )  |  |
|              |                           |                     | Hydrophytic Vegetatio                     | n Present?  | res i   | 10   |
|              |                           |                     |   |   |   |  |
|              |                           |                     | -   |   |   |  |
|              |                           |                     | -   |   |   |  |
| - ——<br>- —— |                           |                     | -   |   |   |  |
| - ——<br>- —— |                           |                     | -   |   |   |  |
|              | 35<br>60<br>25<br>10<br>5 | 0 = Total Cove  25  |   | Are OBL, FACW, or FAC Total Number of Dominant S Are OBL, FACW, or FAC Percent of Dominant S Are OBL, FACW, or FAC Prevalence Index work  Total % Cover  OBL species FACW species FACW species FACU species FACU species Column Totals Prevalence In Hydrophytic Vegetation  1 - Rapid Test for I  4 - Morphological data in Remarks or on Problematic Hydr 10 No FAC 10 No FACU 10 No FACU 10 No FACU 10 No FACU 10 No FACU 10 No FACU 11 No FACU 11 No FACU 12 Problematic Hydr 12 Problematic Hydr 13 Prevalence Inc 14 Norphological data in Remarks or on Problematic Hydr 11 Indicators of hydric so present, unless disturb Definitions of Vegetation Tree – Woody plants 3 breast height (DBH), re Sapling/shrub – Woody greater than or equal t Herb – All herbaceous size, and woody plants Woody vines – All wood height | Are OBL, FACW, or FAC:  Total Number of Dominant Species Across All Strata:  Percent of Dominant Species That Are OBL, FACW, or FAC:  Prevalence Index worksheet:  Total % Cover of:  OBL species OFACW species 105 FACW species 105 FACU species 0 Column Totals 135 Prevalence Index = B/A =  Hydrophytic Vegetation Indicators:  1- Rapid Test for Hydrophytic Vegetation Strata:  Total % Cover of:  OBL species OFACW species OF | Are OBL, FACW, or FAC:  Total Number of Dominant Species Across All Strata:  Percent of Dominant Species That Are OBL, FACW, or FAC:  Prevalence Index worksheet:  Total % Cover of:  Multiply  OBL species O x 1 = FACW species O x 2 = FAC species 105 x 3 = FACU species O x 5 = Column Totals 135 (A) Prevalence Index = B/A = 3.2  Hydrophytic Vegetation Indicators:  1- Rapid Test for Hydrophytic Vegetation ✓ 2 - Dominance Test is >50% — 3 - Prevalence Index is ≤ 3.0¹ 4 - Morphological Adaptations¹ (Provide data in Remarks or on a separate sheet) Problematic Hydrophytic Vegetation¹ (Extended data in Remarks or on a separate sheet) Problematic Hydrophytic Vegetation¹ (Extended data in Remarks or on a separate sheet) Problematic Hydrophytic Vegetation¹ (Extended data in Remarks or on a separate sheet) Problematic Hydrophytic Vegetation¹ (Extended data in Remarks or on a separate sheet) Problematic Hydrophytic Vegetation¹ (Extended data in Remarks or on a separate sheet) Problematic Hydrophytic Vegetation¹ (Extended data in Remarks or on a separate sheet) Problematic Hydrophytic Vegetation¹ (Extended data in Remarks or on a separate sheet) Problematic Hydrophytic Vegetation¹ (Extended data in Remarks or on a separate sheet) Problematic Hydrophytic Vegetation¹ (Extended data in Remarks or on a separate sheet) Problematic Hydrophytic Vegetation¹ (Extended data in Remarks or on a separate sheet) Problematic Hydrophytic vegetation¹ (Extended data in Remarks or on a separate sheet) Problematic Hydrophytic vegetation Strata: Tree – Woody plants 3 in. (7.6 cm) or more in the problematic Hydrophytic vegetation Strata: Tree – Woody plants less than 3 in. (In the problematic Hydrophytic vegetation Strata: Tree – Woody plants less than 3 in. (In the problematic Hydrophytic vegetation Strata: Tree – Woody plants less than 3 in. (In the problematic Hydrophytic vegetation Strata: Tree – Woody plants less than 3 in. (In the problematic Hydrophytic vegetation Strata: Tree – Woody plants less than 3 in. (In the problematic Hydrophytic |

| Depth                   | Matrix                        | to the di | Redox              |            |                   | iluicatoi        | or committee       | absence of indicator | ,  |
|-------------------------|-------------------------------|-----------|--------------------|------------|-------------------|------------------|--------------------|----------------------|--|
| (inches)                | Color (moist)                 | %         | Color (moist)      |            | Type <sup>1</sup> | Loc <sup>2</sup> | Te                 | xture                | Remarks  |
| 0 - 16                  | 10YR 2/2                      | 100       | 20.0. (0.00)       |            | .,,,,,            |                  |                    | Loam                 |  |
| 16 - 20                 | 10YR 3/2                      | 95        | 10YR 6/6           | 5          |                   | M                |                    | lay Loam             |  |
| 10 20                   | 10111372                      |           | 10111070           | - <u>-</u> |                   |                  |                    | lay Louin            |  |
| <del></del> •           |                               |           |                    | -          |                   |                  | -                  |                      |  |
| <del></del> •           |                               |           |                    | -          |                   |                  | -                  |                      |  |
|                         |                               |           |                    |            |                   |                  |                    |                      |  |
|                         | _                             |           | _                  | -          |                   |                  |                    |                      |  |
|                         |                               |           |                    | -          |                   |                  |                    |                      |  |
|                         |                               |           |                    | -          |                   |                  |                    |                      |  |
|                         |                               |           |                    | -          |                   |                  |                    |                      |  |
|                         |                               |           |                    | -          |                   |                  |                    |                      |  |
|                         |                               |           |                    | - —        |                   |                  |                    |                      |  |
| 1Typo: C = C            | oncontration D =              | Doplotic  | n DM - Poducod     |            | civ MC -          | Macked           | Sand Grains        | Placation: DL - Doro | Lining M - Matrix  |
|                         |                               | pepierio  | ii, Rivi – Reduced | ividl      | IX, IVIS =        | iviaskeu         | Janu Gidins. '     | Location: PL = Pore  | -  |
| Hydric Soil II Histosol |                               |           | Pohazina Bal       | ر ۱۵۰۸     | urface (C         | י מם ו) (ג       | R, MLRA 149B)      |                      | oblematic Hydric Soils³:                                     |
| l ——                    | oipedon (A2)                  |           | Polyvalue Bel      |            |                   |                  |                    |                      | (10) (LRR K, L, MLRA 149B)                                   |
| Black His               |                               |           | Loamy Mucky        |            |                   |                  |                    |                      | Redox (A16) (LRR K, L, R)                                    |
|                         | en Sulfide (A4)               |           | Loamy Gleye        |            |                   | (=:::: 4 =       | -,                 | -                    | Peat or Peat (S3) (LRR K, L, R)                              |
|                         | d Layers (A5)                 |           | Depleted Ma        |            |                   |                  |                    | Dark Surface         | (57) <b>(LKK K, L)</b><br>low Surface (S8) <b>(LRR K, L)</b> |
| Depleted                | d Below Dark Surfa            | ace (A11  | ) Redox Dark S     | urfa       | ce (F6)           |                  |                    |                      | rface (S9) <b>(LRR K, L)</b>                                 |
|                         | ark Surface (A12)             |           | Depleted Dar       |            |                   |                  |                    |                      | ese Masses (F12) (LRR K, L, R)                               |
|                         | lucky Mineral (S1)            |           | Redox Depre        | ssior      | ıs (F8)           |                  |                    | _                    | odplain Soils (F19) (MLRA 149B)                              |
| -                       | leyed Matrix (S4)             |           |                    |            |                   |                  |                    |                      | (TA6) <b>(MLRA 144A, 145, 149B)</b>                          |
| _                       | edox (S5)                     |           |                    |            |                   |                  |                    | Red Parent M         |  |
|                         | l Matrix (S6)                 |           |                    |            |                   |                  |                    |                      | Dark Surface (TF12)  |
| Dark Sur                | rface (S7) <b>(LRR R, N</b>   | /ILRA 149 | 9B)                |            |                   |                  |                    | Other (Explai        |  |
| 21                      | of hydrophytic veg            | etation   | and wetland hydr   | olog       | y must be         | e presen         | ıt, unless disturk | ped or problematic.  |  |
| ∘indicators c           |                               |           |                    |            |                   | İ                |                    | ·                    |  |
| •                       | ayer (if observed):           |           |                    |            |                   | Hydric           | Soil Present?      |                      | Yes No∕_   |
| Restrictive L           | .ayer (if observed):<br>Type: | •         | None               |            |                   |                  |                    |                      |  |
| Restrictive L           | Туре:                         | ·<br>     | None               | -          |                   | ,                |                    |                      |  |
| Restrictive L           | -                             | ·<br>     | None               | -          |                   | ,                |                    |                      | · · · · · · · · · · · · · · · · · · ·                        |
| Restrictive L           | Туре:                         | ·<br>     | None               | _          |                   | .,,              |                    |                      | · · · · · · · · · · · · · · · · · · ·                        |
| Restrictive L           | Туре:                         |           | None               | -          |                   | 1.,              |                    |                      |  |
| Restrictive L           | Туре:                         |           | None               | -          |                   | 1.,,             |                    |                      |  |
| Restrictive L           | Туре:                         |           | None               | -          |                   | 1,50.15          |                    |                      | <u> </u>   |
| Restrictive L           | Туре:                         |           | None               | -          |                   | 1,50             |                    |                      |  |
| Restrictive L           | Туре:                         |           | None               | -          |                   | 1,50.15          |                    |                      |  |
| Restrictive L           | Туре:                         |           | None               | -          |                   | 1,70             |                    |                      |  |
| Restrictive L           | Туре:                         |           | None               | -          |                   | 193.5            |                    |                      |  |
| Restrictive L           | Туре:                         |           | None               | -          |                   | 19311            |                    |                      |  |
| Restrictive L           | Туре:                         |           | None               |            |                   |                  |                    |                      |  |
| Restrictive L           | Туре:                         |           | None               |            |                   |                  |                    |                      |  |
| Restrictive L           | Туре:                         |           | None               | -          |                   |                  |                    |                      |  |
| Restrictive L           | Туре:                         |           | None               | -          |                   |                  |                    |                      |  |
| Restrictive L           | Туре:                         |           | None               | -          |                   |                  |                    |                      |  |
| Restrictive L           | Туре:                         |           | None               | -          |                   |                  |                    |                      |  |
| Restrictive L           | Туре:                         |           | None               | -          |                   |                  |                    |                      |  |
| Restrictive L           | Туре:                         |           | None               | -          |                   |                  |                    |                      |  |
| Restrictive L           | Туре:                         |           | None               | -          |                   |                  |                    |                      |  |



Photo of Sample Plot East



Photo of Sample Plot South



Photo of Sample Plot West



| Applicant/Owner: SunEast Investigator(s): Nick DeJohn, E   | oject City/Cou   | nty: Canajoharie, Montgomery Cou   | nty Sampling Date: 2  | .021-Sept-13                             |
|--|--|--|---|--|
| Investigator(s): Nick DeJohn, E  |  | State: NY  | Sampling Point: W-  | NSD-18_PEM-1                             |
|  | 3rian Corrigan   | Section, Township,   | Range: NA   |  |
| Landform (hillslope, terrace, etc.   | .): Channel  | Local relief (concave, conv  | ex, none): Concave  | Slope (%): 0 to 1                        |
| Subregion (LRR or MLRA):   | LRR L  | Lat: 42.843731856  | Long: -74.5380310436  | Datum: WGS84                             |
| Soil Map Unit Name: Appleto  | n silt loam, 3 to 8 percent slop   | pes  | NWI classificat   | ion:                                     |
| Are climatic/hydrologic condition  | ns on the site typical for this t  | ime of year? Yes 🔽 No  | (If no, explain in Remarks  | 5.)                                      |
| Are Vegetation, Soil,  | or Hydrology signif  | icantly disturbed? Are "Norma  | al Circumstances" present?  | Yes No                                   |
| Are Vegetation, Soil,  | or Hydrology natur   | ally problematic? (If needed,  | explain any answers in Remarl   | ks.)                                     |
| Hydrophytic Vegetation Present<br>Hydric Soil Present?<br>Wetland Hydrology Present?<br>Remarks: (Explain alternative precovertype is PEM.   | t? Yes No _<br>Yes No _<br>Yes No _  | Is the Sampled Area withi<br>If yes, optional Wetland Si   | n a Wetland? Ye   | s, etc.<br>es <u>    /</u> No<br>-NSD-18 |
| HYDROLOGY  Wetland Hydrology Indicators:  Primary Indicators (minimum of the control of the cont | Water-St<br>Aquatic F<br>Marl Dep<br>Hydroge<br>Oxidized<br>Presence   | at apply) ained Leaves (B9) Fauna (B13) posits (B15) n Sulfide Odor (C1) Rhizospheres on Living Roots (C3) of Reduced Iron (C4) con Reduction in Tilled Soils (C6) | Secondary Indicators (minimu  Surface Soil Cracks (B6)  Drainage Patterns (B10)  Moss Trim Lines (B16)  Dry-Season Water Table (C  Crayfish Burrows (C8)  Saturation Visible on Aeria  Stunted or Stressed Plants | 2)<br>I Imagery (C9)                     |
| Algal Mat or Crust (B4) Iron Deposits (B5) Inundation Visible on Aerial Sparsely Vegetated Concave   | Imagery (B7) Other (Ex   | ck Surface (C7)<br>oplain in Remarks)  | <ul><li>Geomorphic Position (D2)</li><li>Shallow Aquitard (D3)</li><li>Microtopographic Relief (D</li></ul>   |  |
| Algal Mat or Crust (B4) Iron Deposits (B5) Inundation Visible on Aerial Sparsely Vegetated Concave   | Imagery (B7) Other (Ex   |  | Shallow Aquitard (D3)   |  |
| Algal Mat or Crust (B4)<br>Iron Deposits (B5)<br>Inundation Visible on Aerial  | Imagery (B7) Other (Execution  | xplain in Remarks)   | Shallow Aquitard (D3)<br>Microtopographic Relief (D   |  |
| Algal Mat or Crust (B4) Iron Deposits (B5) Inundation Visible on Aerial Sparsely Vegetated Concave Field Observations: Surface Water Present?  | Imagery (B7) Other (Execution of the Control of | xplain in Remarks)  Depth (inches):  | Shallow Aquitard (D3)<br>Microtopographic Relief (D<br>FAC-Neutral Test (D5)  | )4)                                      |
| Algal Mat or Crust (B4) Iron Deposits (B5) Inundation Visible on Aerial Sparsely Vegetated Concave Field Observations: Surface Water Present? Water Table Present?   | Imagery (B7) Other (Exercise Surface (B8)  Yes No Yes No   | Depth (inches):  Depth (inches):  8  | Shallow Aquitard (D3)<br>Microtopographic Relief (D   |  |
| Algal Mat or Crust (B4) Iron Deposits (B5) Inundation Visible on Aerial Sparsely Vegetated Concave Field Observations: Surface Water Present? Water Table Present? Saturation Present?   | Imagery (B7) Other (Execution of the Control of | xplain in Remarks)  Depth (inches):  | Shallow Aquitard (D3)<br>Microtopographic Relief (D<br>FAC-Neutral Test (D5)  | )4)                                      |
| Algal Mat or Crust (B4) Iron Deposits (B5) Inundation Visible on Aerial Sparsely Vegetated Concave Field Observations: Surface Water Present? Water Table Present? Saturation Present? (includes capillary fringe)   | Imagery (B7) Other (Execution of the Sourface (B8)  Yes No Yes No Yes No   | Depth (inches):  Depth (inches):  8  | Shallow Aquitard (D3) Microtopographic Relief (D FAC-Neutral Test (D5)  Wetland Hydrology Present?  | )4)                                      |

| <u>·</u>  |               |             |        | T  |                    |                                       |
|---|---------------|-------------|--------|--|--------------------|---------------------------------------|
| <u>Tree Stratum</u> (Plot size: <u>30 ft</u> )    |               | Dominant    |        | Dominance Test worksheet:                              |                    |                                       |
|   | % Cover       | Species?    | Status | Number of Dominant Species That                        | 2                  | (A)                                   |
| 1   |               |             |        | Are OBL, FACW, or FAC:                                 |                    |                                       |
| 2   |               |             |        | Total Number of Dominant Species Across All Strata:    | 2                  | (B)                                   |
| 3   |               |             |        | Percent of Dominant Species That                       |                    | <del></del>                           |
| 4   |               |             |        | - Are OBL, FACW, or FAC:                               | 100                | (A/B)                                 |
| 5   |               |             |        | Prevalence Index worksheet:                            |                    |                                       |
| 6.  |               |             |        | - Total % Cover of:                                    | N. A Hatimalis a 1 | D                                     |
| 7.  |               |             |        |  | Multiply I         | -                                     |
|   | 0             | = Total Cov | er     | OBL species 0  | x 1 = _            | 0                                     |
| Sapling/Shrub Stratum (Plot size:15 ft)           |               | -           |        | FACW species 95  | x 2 = _            | 190                                   |
| 1.  |               |             |        | FAC species 10   | x 3 =              | 30                                    |
|   |               |             |        | FACU species 0   | x 4 =              | 0                                     |
| 3.  |               |             |        | - UPL species0   | x 5 =              | 0                                     |
| 4.  | <del></del>   |             |        | - Column Totals 105                                    | (A)                | 220 (B)                               |
| 5.  | <del></del>   |             |        | Prevalence Index = B/A =                               | 2.1                |                                       |
|   |               |             |        | Hydrophytic Vegetation Indicators:                     |                    |                                       |
| 6.  |               |             |        | 1- Rapid Test for Hydrophytic                          | Vegetation         |                                       |
| 7   |               |             |        | 2 - Dominance Test is >50%                             | Ü                  |                                       |
|   | 0             | = Total Cov | er     | $\checkmark$ 3 - Prevalence Index is $\le 3.0^{\circ}$ |                    |                                       |
| <u>Herb Stratum</u> (Plot size: <u>5 ft</u> )     |               |             |        | 4 - Morphological Adaptations                          | :¹ (Provide (      | supporting                            |
| Phalaris arundinacea                              | 60            | Yes         | FACW   | data in Remarks or on a separate s                     | •                  | 5apport8                              |
| 2. Onoclea sensibilis                             | 25            | Yes         | FACW   | Problematic Hydrophytic Vege                           |                    | plain)                                |
| 3. Euthamia graminifolia                          | 10            | No          | FAC    | ¹Indicators of hydric soil and wetlar                  |                    |                                       |
| 4. Symphyotrichum novae-angliae                   | 10            | No          | FACW   | present, unless disturbed or proble                    | -                  | 5,                                    |
| 5.  |               |             |        | Definitions of Vegetation Strata:                      |                    | -                                     |
| 6.  |               |             |        | Tree – Woody plants 3 in. (7.6 cm) o                   | r more in c        | liameter at                           |
| 7.  |               |             |        | breast height (DBH), regardless of h                   |                    | alameter at                           |
| 8.  | <del></del>   |             |        | Sapling/shrub – Woody plants less                      | -                  | BH and                                |
| 9.  |               |             |        | greater than or equal to 3.28 ft (1 m                  |                    |                                       |
| 10  |               |             |        | Herb – All herbaceous (non-woody)                      |                    | ardless of                            |
|   |               |             |        | size, and woody plants less than 3.2                   |                    | ,                                     |
| 11.   |               |             |        | Woody vines – All woody vines grea                     |                    | 28 ft in                              |
| 12  |               |             |        | height.  |                    |                                       |
|   | 105           | = Total Cov | er     | Hydrophytic Vegetation Present?                        | Vac / N            | 0                                     |
| Woody Vine Stratum (Plot size: 30 ft )            |               |             |        | Trydrophytic vegetation i resent:                      | 163 <u>v</u> 1     | · · · · · · · · · · · · · · · · · · · |
| 1   |               |             |        | -  |                    |                                       |
| 2   |               |             |        | _  |                    |                                       |
| 3.  |               |             |        | _  |                    |                                       |
| 4   |               |             |        | _  |                    |                                       |
|   | 0             | = Total Cov | er     |  |                    |                                       |
| Remarks: (Include photo numbers here or on a sepa | arata sheet \ | -           |        |  |                    |                                       |
| Remarks. (include photo numbers here or on a sepa | arate sneet.) |             |        |  |                    |                                       |
|   |               |             |        |  |                    |                                       |
|   |               |             |        |  |                    |                                       |
|   |               |             |        |  |                    |                                       |
|   |               |             |        |  |                    |                                       |
|   |               |             |        |  |                    |                                       |
|   |               |             |        |  |                    |                                       |
|   |               |             |        |  |                    |                                       |

| Profile Desc  | ription: (Describe t        | o the d  | epth needed to d | ocun  | nent the i        | ndicato          | r or confirm the   | absence of indicato | ors.)   |
|---------------|-----------------------------|----------|------------------|-------|-------------------|------------------|--------------------|---------------------|---|
| Depth _       | Matrix                      |          | Redox            | Feat  | ures              |                  |                    |                     |   |
| (inches)      | Color (moist)               | %        | Color (moist)    | %     | Type <sup>1</sup> | Loc <sup>2</sup> | Tex                | ture                | Remarks   |
| 0 - 20        | 10YR 5/6                    | 95       | 10YR 5/8         | 5     | С                 | М                | Silty Cla          | ay Loam             |   |
|               |                             |          |                  | _     |                   |                  |                    |                     |   |
|               |                             |          |                  | _     |                   |                  |                    |                     |   |
|               |                             |          |                  | _     |                   |                  |                    |                     |   |
| ·             |                             |          |                  | _     |                   |                  | -                  |                     |   |
|               |                             |          |                  | _     |                   |                  |                    |                     |   |
|               |                             |          |                  | _     |                   |                  | -                  |                     |   |
|               |                             |          |                  | _     |                   |                  |                    |                     |   |
|               |                             |          |                  |       |                   |                  |                    |                     |   |
|               |                             |          |                  | _     |                   |                  |                    |                     |   |
|               |                             |          |                  | _     |                   |                  |                    |                     |   |
|               |                             |          |                  |       |                   |                  |                    |                     |   |
|               |                             |          |                  |       |                   |                  |                    |                     |   |
| ¹Type: C = C  | oncentration, D = [         | )epletio | on, RM = Reduced | Mat   | rix, MS =         | Masked           | Sand Grains. 2     | Location: PL = Pore | E Lining, M = Matrix.                             |
| Hydric Soil I | ndicators:                  |          |                  |       |                   |                  |                    | Indicators for P    | roblematic Hydric Soils³:                         |
| Histosol      |                             |          | Polyvalue Be     | low S | urface (S         | 8) <b>(LRR</b>   | R, MLRA 149B)      |                     | (A10) (LRR K, L, MLRA 149B)                       |
|               | ipedon (A2)                 |          | Thin Dark Su     |       |                   |                  | •                  |                     |   |
| Black His     | •                           |          | Loamy Muck       |       |                   |                  | -                  |                     | e Redox (A16) (LRR K, L, R)                       |
|               | n Sulfide (A4)              |          | Loamy Gleye      |       |                   |                  |                    |                     | Peat or Peat (S3) (LRR K, L, R)                   |
| Stratified    | d Layers (A5)               |          | Depleted Ma      |       |                   |                  |                    | Dark Surfac         | e (57) (LRR K, L)<br>elow Surface (S8) (LRR K, L) |
| Depleted      | d Below Dark Surfa          | ce (A11  | ) Redox Dark S   | Surfa | ce (F6)           |                  |                    | •                   |   |
| Thick Da      | irk Surface (A12)           |          | Depleted Da      | k Su  | rface (F7)        |                  |                    |                     | urface (S9) (LRR K, L)                            |
| Sandy M       | lucky Mineral (S1)          |          | Redox Depre      | ssior | ıs (F8)           |                  |                    | _                   | nese Masses (F12) (LRR K, L, R)                   |
| Sandy G       | leyed Matrix (S4)           |          |                  |       |                   |                  |                    |                     | loodplain Soils (F19) (MLRA 149B)                 |
| Sandy R       | edox (S5)                   |          |                  |       |                   |                  |                    | · ·                 | ic (TA6) <b>(MLRA 144A, 145, 149B)</b>            |
| Stripped      | l Matrix (S6)               |          |                  |       |                   |                  |                    | Red Parent          |   |
|               | rface (S7) <b>(LRR R, M</b> | LRA 14   | 9B)              |       |                   |                  |                    | •                   | w Dark Surface (TF12)                             |
|               |                             |          |                  |       |                   |                  |                    | Other (Expla        |   |
|               | of hydrophytic vege         | etation  | and wetland hydi | olog  | y must b          | e preser         | nt, unless disturb | ed or problematic.  | •   |
| Restrictive L | .ayer (if observed):        |          |                  |       |                   |                  |                    |                     |   |
|               | Type:                       |          | None             |       |                   | Hydric           | Soil Present?      |                     | Yes/_ No  |
|               | Depth (inches):             |          |                  |       |                   |                  |                    |                     |   |
| Remarks:      |                             |          |                  |       |                   |                  |                    |                     |   |
|               |                             |          |                  |       |                   |                  |                    |                     |   |
|               |                             |          |                  |       |                   |                  |                    |                     |   |
|               |                             |          |                  |       |                   |                  |                    |                     |   |
|               |                             |          |                  |       |                   |                  |                    |                     |   |
|               |                             |          |                  |       |                   |                  |                    |                     |   |
|               |                             |          |                  |       |                   |                  |                    |                     |   |
|               |                             |          |                  |       |                   |                  |                    |                     |   |
|               |                             |          |                  |       |                   |                  |                    |                     |   |
|               |                             |          |                  |       |                   |                  |                    |                     |   |
|               |                             |          |                  |       |                   |                  |                    |                     |   |
|               |                             |          |                  |       |                   |                  |                    |                     |   |
|               |                             |          |                  |       |                   |                  |                    |                     |   |
|               |                             |          |                  |       |                   |                  |                    |                     |   |
|               |                             |          |                  |       |                   |                  |                    |                     |   |
|               |                             |          |                  |       |                   |                  |                    |                     |   |
|               |                             |          |                  |       |                   |                  |                    |                     |   |
|               |                             |          |                  |       |                   |                  |                    |                     |   |
|               |                             |          |                  |       |                   |                  |                    |                     |   |
|               |                             |          |                  |       |                   |                  |                    |                     |   |
|               |                             |          |                  |       |                   |                  |                    |                     |   |
|               |                             |          |                  |       |                   |                  |                    |                     |   |



Photo of Sample Plot North



Photo of Sample Plot South



| Project/Site: Flat Creek Solar Pro   | ject                                    | _City/County: Can  | ajoharie, Montgomery Cou   | ınty   | Sampling Date: 20  | 21-Sept-13               |
|--|---|--|--|--|--|--------------------------|
| Applicant/Owner: SunEast   |   |  | State: NY  |  | Sampling Point: W-N  | SD-18_UPL-1              |
| Investigator(s): Nick DeJohn, B  | rian Corrigan                           |  | Section, Township,   | Range: NA  | 4  |                          |
| Landform (hillslope, terrace, etc.)  | : Hillslope                             |  | Local relief (concave, conv  | /ex, none):  | Undulating   | <b>Slope (%):</b> 1 to 3 |
| Subregion (LRR or MLRA): L   | RR L                                    |  | Lat: 42.843646402  | 25 <b>Long:</b>  | -74.537995169  | Datum: WGS84             |
| Soil Map Unit Name: Appleton   | silt loam, 3 to 8 pe                    | ercent slopes  |  |  | NWI classification   | n:                       |
| Are climatic/hydrologic condition  | s on the site typica                    | al for this time of ye   | ar? Yes 🟒 No   | (If no   | , explain in Remarks.)   | 1                        |
| Are Vegetation, Soil,  | or Hydrology _                          | significantly dis  | sturbed? Are "Norm   | al Circumsta   | ances" present?  | Yes No                   |
| Are Vegetation, Soil,  | or Hydrology _                          | naturally probl  | ematic? (If needed,  | explain any  | y answers in Remarks   | i.)                      |
| SUMMARY OF FINDINGS – A  | attach site map                         | showing sampli   | ng point locations, trar   | nsects, im   | portant features,  | etc.                     |
| Hydrophytic Vegetation Present   | ? Yes                                   | No <b>/</b> _  |  |  |  |                          |
| Hydric Soil Present?   | Yes                                     | No <u>_</u>  | Is the Sampled Area withi  | in a Wetland   | d? Ye  | s No⁄_                   |
| Wetland Hydrology Present?   |   | No _ <b>_</b> _  | If yes, optional Wetland S   | ite ID:  |  |                          |
| Covertype is UPL.  |   |  |  |  |  |                          |
| HYDROLOGY  Wetland Hydrology Indicators:  Primary Indicators (minimum of  Surface Water (A1)  High Water Table (A2)  Saturation (A3)  Water Marks (B1)  Sediment Deposits (B2)  Drift Deposits (B3)  Algal Mat or Crust (B4)  Iron Deposits (B5)  Inundation Visible on Aerial I  Sparsely Vegetated Concave | . — — — — — — — — — — — — — — — — — — — | _ Water-Stained Lea<br>_ Aquatic Fauna (B1<br>_ Marl Deposits (B1<br>_ Hydrogen Sulfide<br>_ Oxidized Rhizosph<br>_ Presence of Redu | 3) 5) Odor (C1) neres on Living Roots (C3) ced Iron (C4) ction in Tilled Soils (C6) e (C7) | Surface Draina; Moss T Dry-Sea Crayfis Satural Stuntee Geomo Shallov Microto | v Indicators (minimum<br>e Soil Cracks (B6)<br>ige Patterns (B10)<br>frim Lines (B16)<br>ason Water Table (C2<br>th Burrows (C8)<br>tion Visible on Aerial I<br>d or Stressed Plants (<br>orphic Position (D2)<br>w Aquitard (D3)<br>opographic Relief (D4 | )<br>Imagery (C9)<br>D1) |
| Field Observations:  |   |  |  | FAC-NO   | edital lest (D3)   |                          |
| Surface Water Present?   | Yes No _                                | ✓ Denth  | (inches):  |  |  |                          |
| Water Table Present?   | Yes No _                                | ·  | (inches):  | -  <br>Motland !!  | lydrology Present?   | Yes No <b>_</b> ∠_       |
|  |   |  | · -  | - vveuariu H   | yurology Fresent!  | 103 NU _ <b>_/</b> _     |
| Saturation Present?  | Yes No _                                | <b>∠</b> Depth   | (inches):  | -  |  |                          |
| (includes capillary fringe)  |   |  |  |  |  | <del></del>              |
| Describe Recorded Data (stream Remarks:  | gauge, monitorin                        | g weil, aeriai prioto.   | s, previous inspections), ii d   | avaliable.   |  |                          |
|  |   |  |  |  |  |                          |

| ·   |                |             |        |   |                          |                 |
|---|----------------|-------------|--------|---|--------------------------|-----------------|
| <u>Tree Stratum</u> (Plot size: <u>30 ft</u> )                |                | Dominant    |        | Dominance Test worksheet:                           |                          |                 |
|   | % Cover        | Species?    | Status | Number of Dominant Species That                     | 1                        | (A)             |
| 1   |                |             |        | Are OBL, FACW, or FAC:                              |                          |                 |
| 2   |                |             |        | Total Number of Dominant Species Across All Strata: | 2                        | (B)             |
| 3   |                |             |        | Percent of Dominant Species That                    |                          | <del></del>     |
| 4   |                |             |        | - Are OBL, FACW, or FAC:                            | 50                       | (A/B)           |
| 5   |                |             |        | Prevalence Index worksheet:                         |                          |                 |
| 6.  |                |             |        | - Total % Cover of:                                 | Multiply                 | D. a            |
| 7.  |                |             |        |   | <u>Multiply</u><br>x 1 = | <u>ву.</u><br>0 |
|   | 0              | = Total Cov | er     |   | -                        |                 |
| Sapling/Shrub Stratum (Plot size:15 ft)                       |                | -           |        | FACW species 5                                      | x 2 =                    | 10              |
| 1.  |                |             |        | FAC species 25                                      | x 3 =                    | 75              |
|   |                |             |        | FACU species 60                                     | x 4 =                    | 240             |
| 3.  |                |             |        | - UPL species 0                                     | x 5 =                    | 0               |
| 4.  |                |             |        | - Column Totals 90                                  | (A)                      | 325 (B)         |
|   |                |             |        | Prevalence Index = B/A =                            | 3.6                      |                 |
| 5.  |                |             |        | Hydrophytic Vegetation Indicators:                  |                          |                 |
| 6.  |                |             |        | 1- Rapid Test for Hydrophytic                       | Vegetation               | 1               |
| 7   |                |             |        | 2 - Dominance Test is > 50%                         | J                        |                 |
|   | 0              | = Total Cov | er     | 3 - Prevalence Index is ≤ 3.01                      |                          |                 |
| Herb Stratum (Plot size:5 ft)                                 |                |             |        | 4 - Morphological Adaptations                       | 1 (Provide               | supporting      |
| 1. Solidago canadensis  | 60             | Yes         | FACU   | data in Remarks or on a separate s                  |                          | 200008          |
| 2. Pycnanthemum tenuifolium                                   | 25             | Yes         | FAC    | Problematic Hydrophytic Vege                        |                          | xplain)         |
| 3. Symphyotrichum novae-angliae                               | 5              | No          | FACW   | Indicators of hydric soil and wetlar                |                          |                 |
| 4.  |                |             |        | present, unless disturbed or proble                 | -                        | 8)              |
| 5.  |                |             |        | Definitions of Vegetation Strata:                   |                          |                 |
| 6.  |                |             |        | Tree – Woody plants 3 in. (7.6 cm) o                | r more in                | diameter at     |
| 7.  |                |             |        | breast height (DBH), regardless of h                |                          | didiffecer de   |
| 8.  |                |             |        | Sapling/shrub – Woody plants less                   | _                        | DBH and         |
| 9.  |                |             |        | greater than or equal to 3.28 ft (1 m               |                          |                 |
| 10  |                |             |        | Herb – All herbaceous (non-woody)                   |                          | gardless of     |
|   |                |             |        | size, and woody plants less than 3.2                |                          | <b>6</b>        |
| 11.   |                |             |        | Woody vines – All woody vines grea                  |                          | .28 ft in       |
| 12  |                |             |        | height.   |                          |                 |
|   | 90             | = Total Cov | er     | Hydrophytic Vegetation Present?                     | Vac N                    | No. /           |
| Woody Vine Stratum (Plot size: 30 ft )                        |                |             |        | Trydrophytic vegetation resent:                     | 163 1                    | 10 <u>v</u>     |
| 1   |                |             |        | -   |                          |                 |
| 2   |                |             |        | _   |                          |                 |
| 3   |                |             |        | _   |                          |                 |
| 4   |                |             |        | _   |                          |                 |
|   | 0              | = Total Cov | er     |   |                          |                 |
| Demonstrat (In alcode wheels not make the second and a second |                | -           |        |   |                          |                 |
| Remarks: (Include photo numbers here or on a se               | parate sneet.) |             |        |   |                          |                 |
|   |                |             |        |   |                          |                 |
|   |                |             |        |   |                          |                 |
|   |                |             |        |   |                          |                 |
|   |                |             |        |   |                          |                 |
|   |                |             |        |   |                          |                 |
|   |                |             |        |   |                          |                 |
|   |                |             |        |   |                          |                 |
|   |                |             |        |   |                          |                 |

|               | ription: (Describe          | to the de |                  |          |                   | ndicato          | r or confirm the a          | absence of in  | dicators.)                                    |
|---------------|-----------------------------|-----------|------------------|----------|-------------------|------------------|-----------------------------|----------------|---|
| Depth _       | Matrix                      |           | Redox            | Feat     | ures              |                  |                             |                |   |
| (inches)      | Color (moist)               | %         | Color (moist)    | %        | Type <sup>1</sup> | Loc <sup>2</sup> | Texture                     | <u> </u>       | Remarks                                       |
| 0 - 18        | 10YR 2/2                    | 100       |                  |          |                   |                  | Silt Loan                   | n              |   |
|               |                             |           |                  | _        |                   |                  |                             |                |   |
|               |                             |           |                  | _        |                   |                  | _                           |                |   |
|               |                             | · —— ·    |                  | _        |                   |                  |                             |                |   |
|               |                             | · — ·     |                  | _        |                   |                  |                             |                |   |
|               |                             |           |                  | _        |                   |                  |                             |                |   |
|               |                             | · —— ·    |                  | _        |                   |                  |                             |                |   |
|               |                             |           |                  | _        |                   |                  |                             |                |   |
|               |                             |           |                  | _        |                   |                  |                             |                |   |
|               |                             |           |                  | _        |                   |                  |                             |                |   |
|               |                             |           |                  | _        |                   |                  |                             |                |   |
|               |                             |           |                  |          |                   |                  |                             |                |   |
|               |                             |           |                  |          |                   |                  |                             |                |   |
| ¹Tvpe: C = C  | oncentration, D = 1         | Depletio  | n. RM = Reduced  | —<br>Mat | rix. MS =         | Masked           | Sand Grains. <sup>2</sup> L | Location: PL = | = Pore Lining, M = Matrix.                    |
| Hydric Soil I |                             | - ср.сс.о | .,,              |          | ,                 | ····abite a      | 54.14 6.4.15.               |                | for Problematic Hydric Soils <sup>3</sup> :   |
| Histosol      |                             |           | Polyvalue Bel    | 0W/ S    | iurfaca (S        | 8) /I <b>DD</b>  | D MIDA 1/QR)                |                | •   |
|               | oipedon (A2)                |           | Thin Dark Sur    |          |                   |                  |                             |                | Muck (A10) <b>(LRR K, L, MLRA 149B)</b>       |
| Black Hi      |                             |           | Loamy Mucky      |          |                   |                  |                             |                | Prairie Redox (A16) (LRR K, L, R)             |
|               | en Sulfide (A4)             |           | Loamy Gleyed     |          |                   | (LIXIX IX,       | L)                          |                | lucky Peat or Peat (S3) (LRR K, L, R)         |
|               | d Layers (A5)               |           | Depleted Mat     |          |                   |                  |                             |                | urface (S7) <b>(LRR K, L)</b>                 |
|               | d Below Dark Surfa          |           |                  |          |                   |                  |                             | -              | lue Below Surface (S8) (LRR K, L)             |
|               | ark Surface (A12)           |           | Depleted Dar     |          |                   | )                |                             |                | ark Surface (S9) <b>(LRR K, L)</b>            |
|               | lucky Mineral (S1)          |           | Redox Depres     |          |                   |                  |                             |                | langanese Masses (F12) (LRR K, L, R)          |
|               | leyed Matrix (S4)           |           |                  |          | ()                |                  |                             | Piedm          | ont Floodplain Soils (F19) <b>(MLRA 149B)</b> |
| -             | edox (S5)                   |           |                  |          |                   |                  |                             | Mesic          | Spodic (TA6) <b>(MLRA 144A, 145, 149B)</b>    |
| _             |                             |           |                  |          |                   |                  |                             | Red Pa         | arent Material (F21)                          |
|               | Matrix (S6)                 |           | ND)              |          |                   |                  |                             | Very Sl        | hallow Dark Surface (TF12)                    |
| Dark Su       | rface (S7) <b>(LRR R, M</b> | ILRA 149  | 9B)              |          |                   |                  |                             | Other          | (Explain in Remarks)                          |
| 3Indicators   | of hydrophytic veg          | etation a | and wetland hydr | olog     | y must b          | e preser         | nt, unless disturbe         | ed or proble   | matic.  |
| Restrictive L | ayer (if observed):         |           |                  |          |                   |                  |                             |                |   |
|               | Type:                       |           | None             |          |                   | Hydric           | Soil Present?               | Y              | es No/  |
|               | Depth (inches):             |           |                  |          |                   | 1                |                             |                | <del></del>                                   |
| Remarks:      | Depert (meries).            |           |                  |          |                   | 1                |                             | ·              |   |
| Remarks.      |                             |           |                  |          |                   |                  |                             |                |   |
|               |                             |           |                  |          |                   |                  |                             |                |   |
|               |                             |           |                  |          |                   |                  |                             |                |   |
|               |                             |           |                  |          |                   |                  |                             |                |   |
|               |                             |           |                  |          |                   |                  |                             |                |   |
|               |                             |           |                  |          |                   |                  |                             |                |   |
|               |                             |           |                  |          |                   |                  |                             |                |   |
|               |                             |           |                  |          |                   |                  |                             |                |   |
|               |                             |           |                  |          |                   |                  |                             |                |   |
|               |                             |           |                  |          |                   |                  |                             |                |   |
|               |                             |           |                  |          |                   |                  |                             |                |   |
|               |                             |           |                  |          |                   |                  |                             |                |   |
|               |                             |           |                  |          |                   |                  |                             |                |   |
|               |                             |           |                  |          |                   |                  |                             |                |   |
|               |                             |           |                  |          |                   |                  |                             |                |   |
|               |                             |           |                  |          |                   |                  |                             |                |   |
|               |                             |           |                  |          |                   |                  |                             |                |   |
|               |                             |           |                  |          |                   |                  |                             |                |   |
|               |                             |           |                  |          |                   |                  |                             |                |   |
|               |                             |           |                  |          |                   |                  |                             |                |   |
|               |                             |           |                  |          |                   |                  |                             |                |   |
|               |                             |           |                  |          |                   |                  |                             |                |   |



Photo of Sample Plot North



Photo of Sample Plot East



Photo of Sample Plot South



| Project/Site: Flat Creek Solar Pr  | roject                  | City/County: Cana  | ajoharie, Montgomery Cou   | unty Samplii  | ng Date: 2021   | -Sept-13          |
|--|-------------------------|--|--|---|---|-------------------|
| Applicant/Owner: SunEast   |                         |  | State: NY  | Sampling  | Point: W-NSI  | D-19_PEM-2        |
| Investigator(s): Nick DeJohn, I  | Brian Corrigan          |  | Section, Township  | , Range: NA   |   |                   |
| Landform (hillslope, terrace, etc  | ): Depression           |  | Local relief (concave, con   | vex, none): Concave   |   | Slope (%): 0 to 1 |
| Subregion (LRR or MLRA):   | LRR L                   |  | Lat: 42.845760444  | 42 <b>Long:</b> -74.5362  | 472907  | Datum: WGS84      |
| Soil Map Unit Name: Illion sil   | t loam, 0 to 3 percer   | nt slopes  |  | NW  | l classification  |                   |
| Are climatic/hydrologic conditio   | ns on the site typica   | l for this time of yea   | ar? Yes 🟒 No   | (If no, explain   | in Remarks.)  |                   |
| Are Vegetation, Soil,  | or Hydrology _          | significantly dis  | sturbed? Are "Norm   | nal Circumstances" pr   | resent? Y   | es No             |
| Are Vegetation, Soil,  | or Hydrology _          | naturally probl  | ematic? (If needed,  | , explain any answers   | s in Remarks.)  |                   |
| Hydrophytic Vegetation Presenthydric Soil Present? Wetland Hydrology Present? Remarks: (Explain alternative p  | Yes _<br>Yes _<br>Yes _ | ✓ No<br>✓ No<br>✓ No   | Is the Sampled Area with   | in a Wetland?   |   | <u>√</u> No       |
| HYDROLOGY  Wetland Hydrology Indicators: Primary Indicators (minimum of the content of the conte | <br><br><br><br><br>    | Water-Stained Lea<br>Aquatic Fauna (B1<br>Marl Deposits (B1)<br>Hydrogen Sulfide<br>Oxidized Rhizosph<br>Presence of Reduc<br>Recent Iron Reduc<br>Thin Muck Surface | 3) 5) Odor (C1) teres on Living Roots (C3) ted Iron (C4) tion in Tilled Soils (C6) | Secondary Indicato Surface Soil Cra Drainage Patter Moss Trim Lines Dry-Season Wat Crayfish Burrow Saturation Visib Stunted or Stres Geomorphic Pos | cks (B6) rns (B10) s (B16) cer Table (C2) vs (C8) le on Aerial Im ssed Plants (D' sition (D2) | agery (C9)        |
| <ul><li> Inundation Visible on Aerial</li><li> Sparsely Vegetated Concave</li></ul>  |                         | Other (Explain in R  | demarks)   | Microtopograph  |   |                   |
| spansely regulated contains  |                         |  |  | <u>✓</u> FAC-Neutral Tes  | t (D5)  |                   |
| Field Observations:  |                         |  |  |   |   |                   |
| Surface Water Present?   | Yes No                  | ∠ Depth  | (inches):  | _   |   |                   |
| Water Table Present?   | Yes No _ <b>_</b>       | ∠ Depth  | (inches):  | Wetland Hydrology   | Present?  | Yes No            |
| Saturation Present?  | Yes _✓_ No              | Depth  | (inches): 10   |   |   |                   |
| (includes capillary fringe)  |                         |  |  | -   |   |                   |
| Describe Recorded Data (stream   | m gauge, monitoring     | g well, aerial photos  | s, previous inspections), if   | available:  |   |                   |
|  |                         | -  |  |   |   |                   |
|  |                         |  |  |   |   |                   |
| Remarks:   |                         |  |  |   |   |                   |
| Remarks.   |                         |  |  |   |   |                   |
|  |                         |  |  |   |   |                   |
|  |                         |  |  |   |   |                   |
|  |                         |  |  |   |   |                   |
|  |                         |  |  |   |   |                   |
|  |                         |  |  |   |   |                   |
|  |                         |  |  |   |   |                   |
|  |                         |  |  |   |   |                   |

|   |             |                      |                     | _   |                 |               |              |
|---|-------------|----------------------|---------------------|---|-----------------|---------------|--------------|
| <u>Tree Stratum</u> (Plot size: <u>30 ft</u> )      |             | Dominant<br>Species? | Indicator<br>Status | Dominance Test works Number of Dominant S |                 | 2             | (4)          |
| 1.  |             |                      |                     | Are OBL, FACW, or FAC                     | :               | 2             | (A)          |
| 2.  |             |                      |                     | Total Number of Domi                      | nant Species    |               |              |
| 3.  |             | <del></del>          |                     | Across All Strata:                        |                 | 2             | (B)          |
| -   |             |                      |                     | Percent of Dominant S                     | pecies That     | 400           | (4 (5)       |
| 4   |             |                      |                     | Are OBL, FACW, or FAC                     | :               | 100           | (A/B)        |
| 5   |             |                      |                     | Prevalence Index work                     | sheet:          |               |              |
| 6   |             |                      |                     | Total % Cover                             | of:             | Multiply      | Bv:          |
| 7   |             |                      |                     | OBL species                               | 25              | x 1 =         | 25           |
|   | 0           | = Total Cov          | er                  | FACW species                              | 55              | x 2 =         | 110          |
| Sapling/Shrub Stratum (Plot size: 15 ft )           |             |                      |                     | FAC species                               | 10              | x3=           | 30           |
| 1   |             |                      |                     | FACU species                              | 0               | x 4 =         | 0            |
| 2.  |             |                      |                     |   |                 | _             |              |
| 3.  |             |                      |                     | UPL species                               | 0               | x 5 =         | 0            |
| 4.  |             |                      |                     | Column Totals                             | 90              | (A) _         | 165 (B)      |
| 5.  |             | <del></del> -        |                     | Prevalence Ir                             | ndex = B/A =    | 1.8           |              |
| 6.  | <del></del> |                      |                     | Hydrophytic Vegetation                    | n Indicators:   |               |              |
| -   |             |                      |                     | 1- Rapid Test for I                       | Hydrophytic V   | egetation/    |              |
| 7   | - —         |                      |                     | 2 - Dominance Te                          | st is >50%      |               |              |
|   | 0           | = Total Cov          | er                  | ✓ 3 - Prevalence Inc                      |                 |               |              |
| <u>Herb Stratum</u> (Plot size: <u>5 ft</u> )       |             |                      |                     | 4 - Morphological                         | Adaptations'    | (Provide      | supporting   |
| Phalaris arundinacea                                | 40          | Yes                  | FACW                | data in Remarks or on                     |                 |               |              |
| 2. Lythrum salicaria                                | 25          | Yes                  | OBL                 | Problematic Hydr                          | •               |               | plain)       |
| 3. Symphyotrichum novae-angliae                     | 10          | No                   | FACW                | ¹Indicators of hydric so                  |                 |               | •            |
| 4. Cornus racemosa                                  | 10          | No                   | FAC                 | present, unless disturb                   |                 | -             | 5,           |
| 5. <i>Onoclea sensibilis</i>                        | 5           | No                   | FACW                | Definitions of Vegetation                 |                 |               |              |
| 6.  |             |                      |                     | Tree – Woody plants 3                     |                 | more in a     | diameter at  |
| 7.  |             | <del></del> -        |                     | breast height (DBH), re                   |                 |               | diameter at  |
| 8.  | <del></del> |                      |                     | Sapling/shrub - Woody                     | _               | _             | NRH and      |
| 9.  |             |                      |                     | greater than or equal t                   |                 |               | Birana       |
|   |             |                      |                     | Herb – All herbaceous                     |                 |               | ardless of   |
| 10  |             |                      |                     | size, and woody plants                    | -               |               | gar diess of |
| 11  |             |                      |                     | Woody vines – All wood                    |                 |               | 28 ft in     |
| 12  |             |                      |                     | height.                                   | ay viries great | ter triair 5. | 2011111      |
|   | 90          | = Total Cov          | er                  |   |                 |               |              |
| Woody Vine Stratum (Plot size: <u>30 ft</u> )       |             |                      |                     | Hydrophytic Vegetation                    | n Present?      | res N         | 0            |
| 1   |             |                      |                     |   |                 |               |              |
| 2.  |             |                      |                     |   |                 |               |              |
| 3.  |             |                      |                     |   |                 |               |              |
| 4.  |             |                      |                     |   |                 |               |              |
| -   | 0           | = Total Cov          | er                  |   |                 |               |              |
|   |             | -                    | -                   |   |                 |               |              |
| Remarks: (Include photo numbers here or on a separa | te sheet.)  |                      |                     |   |                 |               |              |
|   |             |                      |                     |   |                 |               |              |
|   |             |                      |                     |   |                 |               |              |
|   |             |                      |                     |   |                 |               |              |
|   |             |                      |                     |   |                 |               |              |
|   |             |                      |                     |   |                 |               |              |
|   |             |                      |                     |   |                 |               |              |
|   |             |                      |                     |   |                 |               |              |
|   |             |                      |                     |   |                 |               |              |

| Profile Desc  | cription: (Describe t       | to the c    | lepth needed to d | ocun             | nent the          | indicato         | r or confirm the a          | absence of i | ndicators.)                                    |
|---------------|-----------------------------|-------------|-------------------|------------------|-------------------|------------------|-----------------------------|--------------|--|
| Depth         | Matrix                      |             | Redox             | Feat             | ures              |                  |                             |              |  |
| (inches)      | Color (moist)               | %           | Color (moist)     | %                | Type <sup>1</sup> | Loc <sup>2</sup> | Texture                     | e            | Remarks  |
| 0 - 14        | 10YR 3/2                    | 95          | 10YR 5/6          | 5                | C                 | M                | Clay Loa                    | ım           |  |
| 14 - 20       | 10YR 3/2                    | 90          | 10YR 5/8          | _                |                   |                  |                             |              |  |
|               |                             |             |                   | _                |                   |                  |                             |              |  |
|               |                             |             |                   | _                |                   |                  | -                           |              | -  |
|               |                             |             |                   | _                |                   |                  |                             |              |  |
|               |                             |             |                   | _                |                   |                  |                             |              |  |
|               |                             | - —         |                   | _                |                   |                  |                             |              |  |
|               |                             |             |                   | _                |                   |                  |                             |              |  |
|               |                             |             |                   | _                |                   |                  |                             |              |  |
|               |                             |             |                   |                  |                   |                  |                             |              |  |
|               |                             |             |                   |                  |                   |                  |                             |              |  |
|               |                             |             |                   |                  |                   |                  |                             |              |  |
|               |                             |             |                   |                  |                   |                  |                             | <u>.</u>     |  |
| ¹Type: C = C  | Concentration, D = I        | <br>Depleti | on, RM = Reduced  | Mat              | rix, MS =         | Masked           | Sand Grains. <sup>2</sup> l | Location: PL | = Pore Lining, M = Matrix.                     |
| Hydric Soil   |                             |             |                   |                  |                   |                  |                             |              | rs for Problematic Hydric Soils <sup>3</sup> : |
| Histosol      |                             |             | Polyvalue Be      | low <sup>c</sup> | Surface (9        | S8) (I RR        | R. MI RA 149R)              |              | •  |
|               | oipedon (A2)                |             | Thin Dark Su      |                  |                   |                  |                             |              | Muck (A10) (LRR K, L, MLRA 149B)               |
| Black Hi      | •                           |             | Loamy Muck        |                  |                   |                  |                             |              | t Prairie Redox (A16) (LRR K, L, R)            |
|               | en Sulfide (A4)             |             | Loamy Gleye       | -                |                   | (=               | <b>-,</b>                   |              | Mucky Peat or Peat (S3) (LRR K, L, R)          |
|               | d Layers (A5)               |             | Depleted Ma       |                  |                   |                  |                             |              | Surface (S7) (LRR K, L)                        |
|               | d Below Dark Surfa          | ace (A1     |                   |                  |                   |                  |                             |              | value Below Surface (S8) (LRR K, L)            |
| Thick Da      | ark Surface (A12)           |             | Depleted Da       | rk Su            | rface (F7         | )                |                             |              | Dark Surface (S9) (LRR K, L)                   |
| Sandy M       | lucky Mineral (S1)          |             | Redox Depre       | essior           | ns (F8)           |                  |                             |              | Manganese Masses (F12) (LRR K, L, R)           |
|               | Gleyed Matrix (S4)          |             |                   |                  |                   |                  |                             |              | nont Floodplain Soils (F19) (MLRA 149B)        |
| -             | ledox (S5)                  |             |                   |                  |                   |                  |                             |              | Spodic (TA6) <b>(MLRA 144A, 145, 149B)</b>     |
| _             | d Matrix (S6)               |             |                   |                  |                   |                  |                             |              | Parent Material (F21)                          |
|               | rface (S7) <b>(LRR R, M</b> | II RΔ 12    | I9R)              |                  |                   |                  |                             | -            | Shallow Dark Surface (TF12)                    |
| Dark 3a       | riace (57) (Eith it, iv     | ILIU ( I-   | 136)              |                  |                   |                  |                             | Othe         | r (Explain in Remarks)                         |
| 3Indicators   | of hydrophytic veg          | etation     | and wetland hyd   | rolog            | y must b          | e presei         | nt, unless disturb          | ed or proble | ematic.  |
| Restrictive I | _ayer (if observed):        |             |                   |                  |                   |                  |                             |              |  |
|               | Type:                       |             | None              |                  |                   | Hydric           | Soil Present?               |              | Yes No   |
|               | Depth (inches):             |             |                   | ,                |                   | -                |                             |              |  |
| Remarks:      |                             |             |                   |                  |                   | 1                |                             |              |  |
| Kemarks.      |                             |             |                   |                  |                   |                  |                             |              |  |
|               |                             |             |                   |                  |                   |                  |                             |              |  |
|               |                             |             |                   |                  |                   |                  |                             |              |  |
|               |                             |             |                   |                  |                   |                  |                             |              |  |
|               |                             |             |                   |                  |                   |                  |                             |              |  |
|               |                             |             |                   |                  |                   |                  |                             |              |  |
|               |                             |             |                   |                  |                   |                  |                             |              |  |
|               |                             |             |                   |                  |                   |                  |                             |              |  |
|               |                             |             |                   |                  |                   |                  |                             |              |  |
|               |                             |             |                   |                  |                   |                  |                             |              |  |
|               |                             |             |                   |                  |                   |                  |                             |              |  |
|               |                             |             |                   |                  |                   |                  |                             |              |  |
|               |                             |             |                   |                  |                   |                  |                             |              |  |
|               |                             |             |                   |                  |                   |                  |                             |              |  |
|               |                             |             |                   |                  |                   |                  |                             |              |  |
|               |                             |             |                   |                  |                   |                  |                             |              |  |
|               |                             |             |                   |                  |                   |                  |                             |              |  |
|               |                             |             |                   |                  |                   |                  |                             |              |  |
|               |                             |             |                   |                  |                   |                  |                             |              |  |
|               |                             |             |                   |                  |                   |                  |                             |              |  |
|               |                             |             |                   |                  |                   |                  |                             |              |  |



Photo of Sample Plot East



Photo of Sample Plot West



| or Hydrology or Hydrology ttach site map Yes Yes Yes ocedures here or  | cent slopes cal for this time  significant  naturally p  | Local relief (cc   | Yes _ No _<br>Are "Normal<br>(If needed, e.<br>ations, transed Area within  | x, none): Concave Long: -74.533503 NWI cl (If no, explain in l Circumstances" pres explain any answers in sects, important fe   | i7262<br>lassification<br>Remarks.)<br>sent? Y<br>n Remarks.)<br>eatures, e<br>Yes _  | Slope (%): 0 to 1 Datum: WGS84 ::  /es _ No ttc.  SD-19  |
|--|--|--|---|---|---|--|
| Depression RR L oam, 0 to 3 perc s on the site typic or Hydrology or Hydrology ttach site map Yes Yes Yes ocedures here or         | rent slopes    Cal for this time     Significant     Significa | Local relief (cc   | Yes _ V No _ Are "Normal (If needed, e. ations, trans   | x, none): Concave Long: -74.533503 NWI cl (If no, explain in l Circumstances" pres explain any answers in sects, important fe   | lassification<br>Remarks.)<br>sent? Y<br>n Remarks.)<br>eatures, e<br>Yes _   | Datum: WGS84 ::  /es _ ✓ No  ttc.  SD-19   |
| RR L  oam, 0 to 3 perc s on the site typic or Hydrology or Hydrology ttach site map Yes Yes Yes ocedures here or                   | rent slopes    Cal for this time     Significant     Significa | Lat: 42 of year? tly disturbed? problematic?  mpling point loca  Is the Sample If yes, optional eport)   | Yes _ No _<br>Are "Normal<br>(If needed, e.<br>ations, transed Area within  | Long: -74.533503  NWI cl  (If no, explain in   Circumstances" presexplain any answers in sects, important fer a Wetland?  | lassification<br>Remarks.)<br>sent? Y<br>n Remarks.)<br>eatures, e<br>Yes _   | Datum: WGS84 ::  /es _ ✓ No  ttc.  SD-19   |
| oam, 0 to 3 perc<br>s on the site typic<br>or Hydrology<br>or Hydrology<br>ttach site map<br>Yes<br>Yes<br>Yes<br>ocedures here or | cal for this time of significant of the significant | of year? tly disturbed? problematic?  mpling point loca  Is the Sample  If yes, optiona eport)   | Yes No _<br>Are "Normal<br>(If needed, e.<br>ations, trans<br>ed Area within<br>al Wetland Site   | NWI cl (If no, explain in l Circumstances" pres explain any answers in sects, important fe a Wetland?   | lassification<br>Remarks.)<br>sent? Y<br>n Remarks.)<br>eatures, e<br>Yes _   | /es _/_ No<br>/etc.<br>/ No<br>SD-19   |
| or Hydrology or Hydrology ttach site map Yes Yes Yes ocedures here or  | cal for this time of significant of the significant | tly disturbed? problematic?  mpling point loca  Is the Sample  If yes, optional eport)   | Are "Normal<br>(If needed, e.<br>ations, trans<br>ed Area within<br>al Wetland Site   | (If no, explain in land Circumstances" presexplain any answers in sects, important feat a Wetland?  | Remarks.)<br>sent? Y<br>n Remarks.)<br>eatures, e<br>Yes _  | /es _ ✓ No<br>tc.<br>✓ _ No<br>SD-19   |
| or Hydrology or Hydrology ttach site map Yes Yes Yes ocedures here or  | cal for this time of significant of the significant | tly disturbed? problematic?  mpling point loca  Is the Sample  If yes, optional eport)   | Are "Normal<br>(If needed, e.<br>ations, trans<br>ed Area within<br>al Wetland Site   | Circumstances" pres<br>explain any answers in<br>sects, important for<br>a Wetland?   | sent? Yes _   | vtc.<br>✓ No<br>SD-19  |
| or Hydrology ttach site map Yes Yes Yes ocedures here or   | p showing san  No No No r in a separate re   | tly disturbed? problematic?  mpling point loca  Is the Sample  If yes, optional eport)   | Are "Normal<br>(If needed, e.<br>ations, trans<br>ed Area within<br>al Wetland Site   | Circumstances" pres<br>explain any answers in<br>sects, important for<br>a Wetland?   | sent? Yes _   | vtc.<br>✓ No<br>SD-19  |
| or Hydrology ttach site map Yes Yes Yes ocedures here or   | p showing san  No No No r in a separate re   | problematic?  mpling point loca  Is the Sample  If yes, optiona eport)   | ed Area within  | sects, important fo   | n Remarks.)<br>eatures, e<br>Yes _  | vtc.<br>✓ No<br>SD-19  |
| Yes<br>Yes<br>Yes<br>ocedures here or  | S V No   | Is the Sample  If yes, options eport)  | ed Area within<br>al Wetland Site   | a Wetland?  | Yes _   | ✓_ <b>No</b><br>5D-19  |
| Yes<br>Yes<br>Yes<br>ocedures here or  | S V No   | Is the Sample  If yes, options eport)  | ed Area within<br>al Wetland Site   | a Wetland?  | Yes _   | ✓_ <b>No</b><br>5D-19  |
| Yes<br>Yes<br>ocedures here or   | No<br>No<br>r in a separate re   | If yes, optiona  | al Wetland Site   |   |   | SD-19  |
| Yes<br>ocedures here or  | r in a separate re   | If yes, optiona  | al Wetland Site   |   |   | SD-19  |
| ocedures here or   | r in a separate re   | eport)   |   | e ID:   | W-N5  |  |
| ocedures here or   | r in a separate re   | eport)   |   |   |   |  |
|  |  |  |   |   |   |  |
| one is required;   | check all that ap  | ıply)  |   |   |   | of two required)   |
| one is requirea;   | cneck all that ap  | <u>ppiy)</u>   | ` `   |   | / t t   |  |
|  |  |  | _   | Secondary Indicators (  |   | or two required)   |
| _  | Water-Staine   | ed Leaves (B9)   | -   | Surface Soil Cracks   |   |  |
| -  | Aquatic Faun   | ıa (B13)   | -   | Drainage Patterns   |   |  |
| -  | Marl Deposit   | s (B15)  | _   |   |   |  |
| -  |  |  | _   | •   |   |  |
| -  |  |  | Roots (C3)  |   |   | nagery (C9)  |
| -  |  |  | _   |   |   | -  |
| -  |  |  | oils (C6)   |   | -   | ,  |
|  |  |  |   | ·   |   |  |
|  | Other (Explain   | n in Remarks)  |   |   |   |  |
| Surface (Bo)   |  |  |   | ✓ FAC-Neutral Test ([   | D5)   |  |
| Vac Na   | , ,  | lenth (inches):  |   |   |   |  |
|  |  | •  |   | Madamal I bedeed a - 5  |   | Voc. 4 No.   |
|  |  | epth (inches):   |   | Wetland Hydrology Pr  | 'esent?   | Yes No   |
| Yes No   | D  | epth (inches):   | 0   |   |   |  |
|  |  |  |   |   |   |  |
| gauge, monitori  | ing well, aerial pl  | hotos, previous insp   | pections), if av  | <i>r</i> ailable:   |   |  |
|  | Yes <u></u> ✓ No<br>Yes <u></u> ✓ No   | — Marl Deposit — Hydrogen Su — Oxidized Rhi: — Presence of F — Recent Iron F — Thin Muck Su magery (B7) — Other (Explai  Surface (B8)  Yes No D Yes No D | — Marl Deposits (B15) — Hydrogen Sulfide Odor (C1) — Oxidized Rhizospheres on Living — Presence of Reduced Iron (C4) — Recent Iron Reduction in Tilled S — Thin Muck Surface (C7) magery (B7) — Other (Explain in Remarks)  Yes — No ✓ Depth (inches): Yes ✓ No — Depth (inches): | Marl Deposits (B15) Hydrogen Sulfide Odor (C1) Oxidized Rhizospheres on Living Roots (C3) Presence of Reduced Iron (C4) Recent Iron Reduction in Tilled Soils (C6) Thin Muck Surface (C7) magery (B7) Other (Explain in Remarks)  Yes No Depth (inches):  Yes No Depth (inches):  Yes No Depth (inches):  O Depth (inches):  O Output Depth (inches):  O Output Output Output | Marl Deposits (B15) — Hydrogen Sulfide Odor (C1) — Oxidized Rhizospheres on Living Roots (C3) — Presence of Reduced Iron (C4) — Recent Iron Reduction in Tilled Soils (C6) — Thin Muck Surface (C7) — Other (Explain in Remarks) — Yes No Depth (inches):  Yes No Depth (inches):  — Moss Irim Lines (E — Dry-Season Water — Crayfish Burrows ( — Saturation Visible of | Marl Deposits (B15) — Hydrogen Sulfide Odor (C1) — Oxidized Rhizospheres on Living Roots (C3) — Presence of Reduced Iron (C4) — Recent Iron Reduction in Tilled Soils (C6) — Thin Muck Surface (C7) — Other (Explain in Remarks) — Yes No Depth (inches): — Yes No Depth (inches): — Depth (inches): — Woss Irim Lines (B16) — Dry-Season Water Table (C2) — Crayfish Burrows (C8) — Saturation Visible on Aerial In — Stunted or Stressed Plants (D — Geomorphic Position (D2) — Shallow Aquitard (D3) — Microtopographic Relief (D4) — FAC-Neutral Test (D5)  Wetland Hydrology Present?  Wetland Hydrology Present? |

| <u> </u>   |                |             |        |  |             |               |
|--|----------------|-------------|--------|--|-------------|---------------|
| <u>Tree Stratum</u> (Plot size: 30 ft )          |                | Dominant    |        | Dominance Test worksheet:                              |             |               |
|  | % Cover        | Species?    | Status | Number of Dominant Species That                        | 3           | (A)           |
| 1  |                |             |        | Are OBL, FACW, or FAC:                                 | -           |               |
| 2  |                |             |        | Total Number of Dominant Species                       | 3           | (B)           |
| 3  |                |             |        | Across All Strata:                                     |             |               |
| 4.   |                |             |        | Percent of Dominant Species That                       | 100         | (A/B)         |
| 5.   |                |             |        | Are OBL, FACW, or FAC:                                 | -           |               |
| 6.   |                |             |        | Prevalence Index worksheet:                            |             | _             |
| 7.   |                |             |        | Total % Cover of:                                      | Multiply I  | -             |
|  |                | = Total Cov | er     | OBL species 10   | x 1 = _     | 10            |
| Sapling/Shrub Stratum (Plot size:15 ft)          | -              | -           |        | FACW species 95  | x 2 =       | 190           |
| 1. Cornus racemosa                               | 30             | Yes         | FAC    | FAC species 30   | x 3 =       | 90            |
| 2. Salix bebbiana                                | 20             | Yes         | FACW   | FACU species 0   | x 4 =       | 0             |
| 3.   |                |             | TACV   | - UPL species0   | x 5 =       | 0             |
|  |                |             |        | Column Totals 135                                      | (A)         | 290 (B)       |
| 4  |                |             |        | Prevalence Index = B/A =                               | 2.1         |               |
| 5  |                |             |        | Hydrophytic Vegetation Indicators:                     |             |               |
| 6  |                |             |        | 1- Rapid Test for Hydrophytic                          | Vegetation  |               |
| 7  |                |             |        | 2 - Dominance Test is >50%                             | .0          |               |
|  | 50             | = Total Cov | er     | $\checkmark$ 3 - Prevalence Index is $\le 3.0^{\circ}$ |             |               |
| <u>Herb Stratum</u> (Plot size: <u>5 ft</u> )    |                |             |        | 4 - Morphological Adaptations                          | 1 (Provide  | sunnorting    |
| Phalaris arundinacea                             | 70             | Yes         | FACW   | data in Remarks or on a separate s                     |             | sapporting    |
| 2. Lythrum salicaria                             | 10             | No          | OBL    | - Problematic Hydrophytic Vege                         |             | plain)        |
| 3. Onoclea sensibilis                            | 5              | No          | FACW   | ¹Indicators of hydric soil and wetlar                  |             |               |
| 4.   |                |             |        | present, unless disturbed or proble                    | -           | 59 111431 00  |
| 5.   |                |             |        | Definitions of Vegetation Strata:                      |             |               |
| 6.   |                |             |        | Tree – Woody plants 3 in. (7.6 cm) o                   | r more in c | liameter at   |
| 7.   |                |             |        | breast height (DBH), regardless of h                   |             | diameter at   |
| 8.   |                |             |        | Sapling/shrub – Woody plants less                      | -           | BH and        |
| 9.   |                |             |        | greater than or equal to 3.28 ft (1 m                  |             | Birana        |
| 10   |                |             |        | Herb – All herbaceous (non-woody)                      |             | ardless of    |
|  |                |             |        | size, and woody plants less than 3.2                   |             | ,a. a.e.s. e. |
| 11.  |                |             |        | Woody vines – All woody vines grea                     |             | 28 ft in      |
| 12   |                |             |        | height.  |             |               |
|  | 85             | = Total Cov | er     |  | Voc. / N    |               |
| Woody Vine Stratum (Plot size: <u>30 ft</u> )    |                |             |        | Hydrophytic Vegetation Present?                        | res iv      | 0             |
| 1.   |                |             |        | _  |             |               |
| 2  |                |             |        | _  |             |               |
| 3  |                |             |        |  |             |               |
| 4.   |                |             |        |  |             |               |
|  | 0              | = Total Cov | er     |  |             |               |
|  |                | •           |        |  |             |               |
| Remarks: (Include photo numbers here or on a sep | parate sneet.) |             |        |  |             |               |
|  |                |             |        |  |             |               |
|  |                |             |        |  |             |               |
|  |                |             |        |  |             |               |
|  |                |             |        |  |             |               |
|  |                |             |        |  |             |               |
|  |                |             |        |  |             |               |
|  |                |             |        |  |             |               |
|  |                |             |        |  |             |               |

| Profile Desc         | ription: (Describe to                   | o the d   | epth needed to d | ocun   | nent the          | indicato         | r or confirm the a | absence of i | ndicators.)                                |
|----------------------|---|-----------|------------------|--------|-------------------|------------------|--------------------|--------------|--|
| Depth                | Matrix                                  |           | Redox            | Feat   | ures              |                  |                    |              |  |
| (inches)             | Color (moist)                           | %         | Color (moist)    | %      | Type <sup>1</sup> | Loc <sup>2</sup> | Texture            | e            | Remarks                                    |
| 0 - 20               | 10YR 3/2                                | 95        | 7.5YR 4/6        | 5      | С                 | М                | Clay Loa           | ım           |  |
|                      |   |           |                  | _      |                   |                  |                    |              |  |
|                      |   |           |                  |        |                   |                  |                    |              |  |
|                      |   |           |                  | _      |                   |                  | -                  |              |  |
|                      |   |           |                  | _      |                   |                  |                    |              |  |
|                      |   |           |                  |        |                   |                  | -                  |              |  |
|                      |   |           |                  | _      |                   |                  | -                  |              |  |
|                      |   |           |                  |        |                   |                  |                    |              |  |
|                      |   |           |                  | _      |                   |                  |                    |              |  |
|                      |   |           |                  |        |                   |                  | -                  |              |  |
|                      |   |           |                  | _      |                   |                  |                    |              |  |
|                      |   |           |                  |        |                   |                  |                    |              |  |
|                      |   | <u> </u>  |                  | _      |                   |                  |                    |              |  |
| <u>1</u> Type: C = C | oncentration, D = D                     | Pepletion | on, RM = Reduced | l Mat  | rix, MS =         | Masked           | Sand Grains. 2     | Location: PL | . = Pore Lining, M = Matrix.               |
| Hydric Soil I        |   |           |                  |        |                   |                  |                    | Indicator    | s for Problematic Hydric Soils³:           |
| Histosol             |   |           | Polyvalue Be     |        |                   |                  |                    | 2 cm         | Muck (A10) (LRR K, L, MLRA 149B)           |
|                      | oipedon (A2)                            |           | Thin Dark Su     |        |                   |                  |                    | Coas         | t Prairie Redox (A16) <b>(LRR K, L, R)</b> |
| Black Hi             |   |           | Loamy Muck       | -      |                   | (LRR K,          | L)                 | 5 cm         | Mucky Peat or Peat (S3) (LRR K, L, R)      |
|                      | en Sulfide (A4)                         |           | Loamy Gleye      |        |                   |                  |                    | Dark         | Surface (S7) (LRR K, L)                    |
|                      | d Layers (A5)                           | (         | Depleted Ma      |        |                   |                  |                    | Polyv        | alue Below Surface (S8) (LRR K, L)         |
|                      | d Below Dark Surfa<br>ark Surface (A12) | ce (ATI   | Depleted Da      |        |                   | `                |                    | Thin         | Dark Surface (S9) <b>(LRR K, L)</b>        |
|                      | fucky Mineral (S1)                      |           | Redox Depre      |        |                   | ,                |                    | Iron-l       | Manganese Masses (F12) (LRR K, L, R)       |
|                      | ileyed Matrix (S4)                      |           | Redox Depre      | :33101 | 15 (10)           |                  |                    | Piedr        | nont Floodplain Soils (F19) (MLRA 149B)    |
| -                    | edox (S5)                               |           |                  |        |                   |                  |                    | Mesi         | Spodic (TA6) <b>(MLRA 144A, 145, 149B)</b> |
| _                    |   |           |                  |        |                   |                  |                    | Red F        | Parent Material (F21)                      |
|                      | d Matrix (S6)                           | I DA 14   | OD)              |        |                   |                  |                    | Very         | Shallow Dark Surface (TF12)                |
| Dark Su              | rface (S7) <b>(LRR R, M</b>             | LKA 14    | 98)              |        |                   |                  |                    | Othe         | r (Explain in Remarks)                     |
| 3Indicators          | of hydrophytic vege                     | tation    | and wetland hyd  | rolog  | y must b          | e presei         | nt, unless disturb | ed or probl  | ematic.                                    |
| Restrictive I        | ayer (if observed):                     |           |                  |        |                   |                  |                    |              |  |
|                      | Type:                                   |           | None             |        |                   | Hydric           | Soil Present?      |              | Yes/_ No                                   |
|                      | Depth (inches):                         |           |                  |        |                   |                  |                    |              |  |
| Remarks:             |   |           |                  |        |                   | ı                |                    |              |  |
|                      |   |           |                  |        |                   |                  |                    |              |  |
|                      |   |           |                  |        |                   |                  |                    |              |  |
|                      |   |           |                  |        |                   |                  |                    |              |  |
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|                      |   |           |                  |        |                   |                  |                    |              |  |
|                      |   |           |                  |        |                   |                  |                    |              |  |
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|                      |   |           |                  |        |                   |                  |                    |              |  |
|                      |   |           |                  |        |                   |                  |                    |              |  |
|                      |   |           |                  |        |                   |                  |                    |              |  |
|                      |   |           |                  |        |                   |                  |                    |              |  |
|                      |   |           |                  |        |                   |                  |                    |              |  |
|                      |   |           |                  |        |                   |                  |                    |              |  |
|                      |   |           |                  |        |                   |                  |                    |              |  |
|                      |   |           |                  |        |                   |                  |                    |              |  |
|                      |   |           |                  |        |                   |                  |                    |              |  |
|                      |   |           |                  |        |                   |                  |                    |              |  |
|                      |   |           |                  |        |                   |                  |                    |              |  |



Photo of Sample Plot East



Photo of Sample Plot West



| Project/Site: Flat Creek Solar Pro  | ject                | City/County: Can       | ajoharie, Montgomery       | County              | Sampling Date: 202                           | 21-Sept-13        |  |  |  |
|-------------------------------------|---------------------|------------------------|----------------------------|---------------------|--|-------------------|--|--|--|
| Applicant/Owner: SunEast            |                     |                        | State:                     | NY                  | Sampling Point: W-N                          | SD-19_UPL-1       |  |  |  |
| Investigator(s): Nick DeJohn, B     | rian Corrigan       |                        | Section, Towns             | ship, Range: N      | IA   |                   |  |  |  |
| Landform (hillslope, terrace, etc.) | : Flat              |                        | Local relief (concave, o   | convex, none):      | None   | Slope (%): 0 to 1 |  |  |  |
| Subregion (LRR or MLRA):            | RR L                |                        | Lat: 42.845813             | 39208 <b>Long</b> : | -74.5362493862                               | Datum: WGS84      |  |  |  |
| Soil Map Unit Name: Illion silt     | loam, 0 to 3 perce  | ent slopes             |                            |                     | NWI classificatio                            | n:                |  |  |  |
| Are climatic/hydrologic condition   | s on the site typic | al for this time of ye | ar? Yes                    | _ No (If no         | o, explain in Remarks.)                      |                   |  |  |  |
| Are Vegetation, Soil,               | or Hydrology        | significantly di       | sturbed? Are "No           | ormal Circums       | tances" present?                             | Yes No            |  |  |  |
| Are Vegetation, Soil,               | or Hydrology        | naturally prob         | lematic? (If need          | ded, explain ar     | ny answers in Remarks                        | .)                |  |  |  |
|                                     |                     |                        |                            |                     |  |                   |  |  |  |
| SUMMARY OF FINDINGS – A             | Attach site map     | showing sampli         | ng point locations,        | transects, in       | nportant features,                           | etc.              |  |  |  |
|                                     | ·                   |                        | <u> </u>                   |                     | •  |                   |  |  |  |
| Hydrophytic Vegetation Present      |                     | No                     | l                          |                     |  |                   |  |  |  |
| Hydric Soil Present?                | Yes                 | No _ <b>_</b> _        | Is the Sampled Area v      | within a Wetlar     | hin a Wetland? Yes No/                       |                   |  |  |  |
| Wetland Hydrology Present?          | Yes                 | No                     | If yes, optional Wetlar    | nd Site ID:         |  |                   |  |  |  |
| Remarks: (Explain alternative pr    | ocedures here or    | in a separate report   | )                          |                     |  |                   |  |  |  |
|                                     |                     |                        |                            |                     |  |                   |  |  |  |
| Covertype is UPL. Circumstances     | s are not normal c  | lue to agricultural a  | ctivities.                 |                     |  |                   |  |  |  |
|                                     |                     |                        |                            |                     |  |                   |  |  |  |
|                                     |                     |                        |                            |                     |  |                   |  |  |  |
|                                     |                     |                        |                            |                     |  |                   |  |  |  |
|                                     |                     |                        |                            |                     |  |                   |  |  |  |
|                                     |                     |                        |                            |                     |  |                   |  |  |  |
|                                     |                     |                        |                            |                     |  |                   |  |  |  |
|                                     |                     |                        |                            |                     |  |                   |  |  |  |
|                                     |                     |                        |                            |                     |  |                   |  |  |  |
|                                     |                     |                        |                            |                     |  |                   |  |  |  |
|                                     |                     |                        |                            |                     |  |                   |  |  |  |
|                                     |                     |                        |                            |                     |  |                   |  |  |  |
|                                     |                     |                        |                            |                     |  |                   |  |  |  |
| HYDROLOGY                           |                     |                        |                            |                     |  |                   |  |  |  |
|                                     |                     |                        |                            |                     |  |                   |  |  |  |
| Wetland Hydrology Indicators:       |                     |                        |                            |                     |  |                   |  |  |  |
|                                     |                     |                        |                            |                     |  |                   |  |  |  |
| Primary Indicators (minimum of      | one is required; o  | heck all that apply)   |                            | <u>Secondar</u>     | y Indicators (minimum                        | of two required)  |  |  |  |
| Conference (AA)                     |                     | Water Chaire all a     | ····· (DO)                 | Surfac              | ce Soil Cracks (B6)                          |                   |  |  |  |
| Surface Water (A1)                  | _                   | Water-Stained Lea      |                            | Draina              | age Patterns (B10)                           |                   |  |  |  |
| ✓ High Water Table (A2)             |                     | _ Aquatic Fauna (B1    |                            |                     | Moss Trim Lines (B16)                        |                   |  |  |  |
| Saturation (A3)                     |                     | _ Marl Deposits (B1    |                            |                     | Dry-Season Water Table (C2)                  |                   |  |  |  |
| Water Marks (B1)                    | _                   | _ Hydrogen Sulfide     |                            | Cravfi              | Cravfish Burrows (C8)                        |                   |  |  |  |
| Sediment Deposits (B2)              | _                   | Oxidized Rhizospl      | neres on Living Roots (0   | (3)                 | 3) Saturation Visible on Aerial Imagery (C9) |                   |  |  |  |
| Drift Deposits (B3)                 | _                   | _ Presence of Redu     | ced Iron (C4)              |                     | Stunted or Stressed Plants (D1)              |                   |  |  |  |
| Algal Mat or Crust (B4)             | _                   | _ Recent Iron Redu     | ction in Tilled Soils (C6) | 1                   |  | 51)               |  |  |  |
| Iron Deposits (B5)                  | _                   | _ Thin Muck Surface    | e (C7)                     |                     | orphic Position (D2)                         |                   |  |  |  |
| Inundation Visible on Aerial I      | magery (B7)         | _ Other (Explain in I  | Remarks)                   |                     | w Aquitard (D3)                              |                   |  |  |  |
| Sparsely Vegetated Concave          |                     |                        | ,                          | Micro               | topographic Relief (D4)                      | )                 |  |  |  |
| Sparsely vegetated concave          | Juliace (DO)        |                        |                            | FAC-N               | leutral Test (D5)                            |                   |  |  |  |
| Field Observations:                 |                     |                        |                            |                     |  |                   |  |  |  |
| Surface Water Present?              | Yes No _            | ✓ Depth                | (inches):                  |                     |  |                   |  |  |  |
| Water Table Present?                |                     |                        | (inches): 6                | Wetland I           | Hydrology Present?                           | Yes No            |  |  |  |
|                                     | Yes No _            |                        | · —                        |                     | nyurology Present?                           | 165 140           |  |  |  |
| Saturation Present?                 | Yes No _            | Depth                  | (inches): 0                | <u> </u>            |  |                   |  |  |  |
| (includes capillary fringe)         |                     |                        |                            |                     |  |                   |  |  |  |
|                                     | anuan monitoria     | a wall social abota    | a provious inspections     | ) if availables     |  |                   |  |  |  |
| Describe Recorded Data (stream      | i gauge, monitorii  | ig weii, aeriai prioto | s, previous irispections   | s), ii avaliable.   |  |                   |  |  |  |
|                                     |                     |                        |                            |                     |  |                   |  |  |  |
|                                     |                     |                        |                            |                     |  |                   |  |  |  |
|                                     |                     |                        |                            |                     |  |                   |  |  |  |
| Remarks:                            |                     |                        |                            |                     |  |                   |  |  |  |
| Remarks.                            |                     |                        |                            |                     |  |                   |  |  |  |
|                                     |                     |                        |                            |                     |  |                   |  |  |  |
|                                     |                     |                        |                            |                     |  |                   |  |  |  |
|                                     |                     |                        |                            |                     |  |                   |  |  |  |
|                                     |                     |                        |                            |                     |  |                   |  |  |  |
|                                     |                     |                        |                            |                     |  |                   |  |  |  |
|                                     |                     |                        |                            |                     |  |                   |  |  |  |
|                                     |                     |                        |                            |                     |  |                   |  |  |  |
|                                     |                     |                        |                            |                     |  |                   |  |  |  |
|                                     |                     |                        |                            |                     |  |                   |  |  |  |

| <u>Tree Stratum</u> (Plot size: <u>30 ft</u> ) | Absolute | Dominant     | Indicator | Dominance Test worksheet:           |                 |             |
|--|----------|--------------|-----------|-------------------------------------|-----------------|-------------|
| ree stratum (1 lot sizesort)                   | % Cover  | Species?     | Status    | Number of Dominant Species Tha      | t 0             | (A)         |
| 1  |          |              |           | Are OBL, FACW, or FAC:              |                 |             |
| 2.   |          |              |           | Total Number of Dominant Specie     | s <b>2</b>      | (B)         |
| 3.   |          |              |           | Across All Strata:                  |                 |             |
| 4.   |          |              |           | Percent of Dominant Species That    | 0               | (A/B)       |
| 5.   |          |              |           | Are OBL, FACW, or FAC:              | _               |             |
| 6.   |          |              |           | Prevalence Index worksheet:         |                 | _           |
| 7.   |          |              |           | Total % Cover of:                   | <u>Multiply</u> | -           |
|  |          | = Total Cove | er        | OBL species 0                       | _ x1=           | 0           |
| Sapling/Shrub Stratum (Plot size:15 ft)        |          | -            |           | FACW species 0                      | _ x 2 =         | 0           |
|  |          |              |           | FAC species 5                       | _ x 3 =         | 15          |
|  |          |              |           | FACU species 20                     | x 4 =           | 80          |
| 2.<br>3.                                       |          |              |           | - UPL species 40                    | x 5 =           | 200         |
|  |          |              |           | - Column Totals 65                  | (A)             | 295 (B)     |
| 4  |          |              |           | Prevalence Index = B/A :            | = <u>4.5</u>    |             |
| 5  |          |              |           | Hydrophytic Vegetation Indicators   |                 |             |
| 6  |          |              |           | 1- Rapid Test for Hydrophytic       |                 | า           |
| 7  |          |              |           | 2 - Dominance Test is > 50%         | .0              |             |
|  | 0        | = Total Cove | er        | 3 - Prevalence Index is ≤ 3.0       |                 |             |
| <u>Herb Stratum</u> (Plot size: <u>5 ft</u> )  |          |              |           | 4 - Morphological Adaptation        |                 | supporting  |
| 1. Zea mays                                    | 40       | Yes          | UPL       | data in Remarks or on a separate    |                 | 200008      |
| 2. Galium mollugo                              | 20       | Yes          | FACU      | Problematic Hydrophytic Veg         |                 | xplain)     |
| 3. Cornus racemosa                             | 5        | No           | FAC       | Indicators of hydric soil and wetla |                 | •           |
| 4.   |          |              |           | present, unless disturbed or prob   | -               | 6)          |
| 5.   |          |              |           | Definitions of Vegetation Strata:   |                 |             |
| 6.   |          |              |           | Tree – Woody plants 3 in. (7.6 cm)  | or more in      | diameter at |
| 7.   |          |              |           | breast height (DBH), regardless of  |                 | alameter at |
| 8.   |          |              |           | Sapling/shrub – Woody plants less   | _               | DBH and     |
| 9.   |          |              |           | greater than or equal to 3.28 ft (1 |                 |             |
| 10   |          |              |           | Herb – All herbaceous (non-wood)    |                 | gardless of |
| 11   |          |              |           | size, and woody plants less than 3  |                 | J           |
|  |          |              |           | Woody vines – All woody vines gre   |                 | 3.28 ft in  |
| 12   |          |              |           | height.                             |                 |             |
|  | 65       | = Total Cove | er        | Hydrophytic Vegetation Present?     | Ves             | No. /       |
| Woody Vine Stratum (Plot size: <u>30 ft</u> )  |          |              |           | Trydrophytic vegetation i resent:   | 1631            | VO          |
| 1  |          |              |           | -                                   |                 |             |
| 2.   |          |              |           | -                                   |                 |             |
| <u> </u>                                       |          |              |           | _                                   |                 |             |
| -· -   |          |              |           |                                     |                 |             |
| 3.<br>4.                                       |          |              |           | _                                   |                 |             |

|                    |   | to the de       | epth needed to do<br>Redox |          |                   | indicato         | r or confirm the  | absence of indicator             | s.)                              |
|--------------------|---|-----------------|----------------------------|----------|-------------------|------------------|-------------------|----------------------------------|----------------------------------|
| Depth              | Matrix                                    | 04              |                            |          |                   | Loc2             | T                 | nutura.                          | Remarks                          |
| (inches)<br>0 - 11 | Color (moist)<br>10YR 3/2                 | <u>%</u><br>100 | Color (moist)              | <u>%</u> | Type <sup>1</sup> | Loc <sup>2</sup> |                   | Exture<br>Clay Loam              | Remarks                          |
| 11 - 20            | 10YR 3/3                                  | 100             |                            | _        |                   |                  |                   | Clay Loam                        |                                  |
| 11-20              | 1016 3/3                                  | 100             |                            | _        |                   |                  | Silty C           | Liay Loairi                      |                                  |
|                    | _   |                 |                            | _        |                   |                  |                   | -                                |                                  |
|                    | -   |                 |                            | _        |                   |                  |                   | _                                |                                  |
|                    |   |                 |                            | _        |                   |                  | -                 |                                  |                                  |
|                    |   |                 |                            | _        |                   |                  | -                 |                                  |                                  |
|                    |   |                 |                            | _        |                   |                  | -                 |                                  |                                  |
|                    |   |                 |                            | _        |                   |                  |                   |                                  |                                  |
|                    |   |                 |                            | _        |                   |                  | -                 |                                  |                                  |
|                    | _   |                 |                            | _        |                   |                  | -                 | _                                |                                  |
|                    | _   | _               |                            | _        |                   |                  |                   | _                                |                                  |
| ¹Type: C =         | Concentration, D =                        | Depletio        | n, RM = Reduced            | Mati     | rix, MS =         | Masked           | Sand Grains.      | <sup>2</sup> Location: PL = Pore | Lining, M = Matrix.              |
|                    | Indicators:                               |                 |                            |          |                   |                  |                   |                                  | oblematic Hydric Soils³:         |
| Histoso            | ol (A1)                                   |                 | Polyvalue Bel              | ow S     | urface (S         | 88) <b>(LRR</b>  | R, MLRA 149B)     | 2 cm Muck (A                     | .10) (LRR K, L, MLRA 149B)       |
| Histic E           | pipedon (A2)                              |                 | Thin Dark Sur              |          |                   |                  |                   |                                  | Redox (A16) <b>(LRR K, L, R)</b> |
|                    | listic (A3)                               |                 | Loamy Mucky                |          |                   | (LRR K,          | L)                |                                  | Peat or Peat (S3) (LRR K, L, R)  |
|                    | gen Sulfide (A4)                          |                 | Loamy Gleye                |          |                   |                  |                   | Dark Surface                     |                                  |
|                    | ed Layers (A5)                            | 250 (411        | Depleted Mat               |          |                   |                  |                   | Polyvalue Bel                    | ow Surface (S8) (LRR K, L)       |
| •                  | ed Below Dark Surfa<br>Oark Surface (A12) |                 | Depleted Dark 3            |          |                   | ١                |                   |                                  | face (S9) <b>(LRR K, L)</b>      |
|                    | Mucky Mineral (S1)                        |                 | Redox Depre                |          |                   | ,                |                   |                                  | ese Masses (F12) (LRR K, L, R)   |
|                    | Gleyed Matrix (S4)                        |                 |                            |          | (,                |                  |                   |                                  | odplain Soils (F19) (MLRA 149B)  |
| -                  | Redox (S5)                                |                 |                            |          |                   |                  |                   |                                  | (TA6) (MLRA 144A, 145, 149B)     |
| _                  | ed Matrix (S6)                            |                 |                            |          |                   |                  |                   | Red Parent M                     |                                  |
|                    | urface (S7) (LRR R, N                     | /ILRA 149       | 9B)                        |          |                   |                  |                   | Very Shallow<br>Other (Explain   | Dark Surface (TF12)              |
| 21.5 41: 5 5 5 5 5 |   |                 |                            |          |                   |                  |                   | •                                | THE Remarks)                     |
|                    | Layer (if observed):                      |                 | and welland nydr           | olog     | y must b          | e preser         | it, uniess distur | bed or problematic.              |                                  |
| Restrictive        | Type:                                     |                 | None                       |          |                   | ⊔vdrid           | : Soil Present?   |                                  | Yes No _ <b>∠</b> _              |
|                    | Depth (inches):                           |                 | None                       | •        |                   | liyund           | . Johr Fresent:   |                                  | ies No <u>/</u>                  |
| Remarks:           | Deptil (iliches).                         |                 |                            |          |                   |                  |                   |                                  |                                  |
| Remarks.           |   |                 |                            |          |                   |                  |                   |                                  |                                  |
| İ                  |   |                 |                            |          |                   |                  |                   |                                  |                                  |
|                    |   |                 |                            |          |                   |                  |                   |                                  |                                  |
|                    |   |                 |                            |          |                   |                  |                   |                                  |                                  |
|                    |   |                 |                            |          |                   |                  |                   |                                  |                                  |
|                    |   |                 |                            |          |                   |                  |                   |                                  |                                  |
|                    |   |                 |                            |          |                   |                  |                   |                                  |                                  |
|                    |   |                 |                            |          |                   |                  |                   |                                  |                                  |
|                    |   |                 |                            |          |                   |                  |                   |                                  |                                  |
|                    |   |                 |                            |          |                   |                  |                   |                                  |                                  |
|                    |   |                 |                            |          |                   |                  |                   |                                  |                                  |
|                    |   |                 |                            |          |                   |                  |                   |                                  |                                  |
|                    |   |                 |                            |          |                   |                  |                   |                                  |                                  |
|                    |   |                 |                            |          |                   |                  |                   |                                  |                                  |
| 1                  |   |                 |                            |          |                   |                  |                   |                                  |                                  |
|                    |   |                 |                            |          |                   |                  |                   |                                  |                                  |
|                    |   |                 |                            |          |                   |                  |                   |                                  |                                  |
|                    |   |                 |                            |          |                   |                  |                   |                                  |                                  |
|                    |   |                 |                            |          |                   |                  |                   |                                  |                                  |



Photo of Sample Plot North



Photo of Sample Plot East



Photo of Sample Plot West



| Project/Site: Flat Creek Solar Pro   | oject                | _City/County: Can   | ajoharie, Montgomery Cou        | ınty  | Sampling Date: 202  | 21-Sept-13        |  |  |
|--|----------------------|---|---------------------------------|---|---|-------------------|--|--|
| Applicant/Owner: SunEast   |                      |   | State: NY                       |   | Sampling Point: W-N   | SD-19_UPL-2       |  |  |
| Investigator(s): Nick DeJohn, B  | rian Corrigan        |   | Section, Township,              | Range: NA   | 4   |                   |  |  |
| Landform (hillslope, terrace, etc.)  | : Flat               |   | Local relief (concave, conv     | /ex, none):_  | Undulating  | Slope (%): 0 to 1 |  |  |
| Subregion (LRR or MLRA):   | RR L                 |   | Lat: 42.845485643               | 5 Long:_  | -74.5347087924  | Datum: WGS84      |  |  |
| Soil Map Unit Name: Illion silt  | loam, 0 to 3 percer  | nt slopes   |                                 |   | NWI classificatio   | n:                |  |  |
| Are climatic/hydrologic condition  | s on the site typica | l for this time of ye   | ar? Yes <u>✓</u> No             | (If no  | , explain in Remarks.)  |                   |  |  |
| Are Vegetation, Soil,  | or Hydrology _       | significantly dis   | sturbed? Are "Norm              | al Circumst   | ances" present?   | Yes No            |  |  |
| Are Vegetation, Soil,  | or Hydrology _       | naturally probl   | ematic? (If needed,             | explain any   | y answers in Remarks  | .)                |  |  |
| SUMMARY OF FINDINGS – A  | Attach site man      | showing sampli  | ng noint locations tran         | nsects im   | nortant features  | etc               |  |  |
| Hydrophytic Vegetation Present   | -                    | No _ <u>/</u> _   |                                 | 130003, 1111  |   |                   |  |  |
| Hydric Soil Present?   |                      | No  | Is the Sampled Area withi       | in a Wetland  | d? Ye:  | s No⁄_            |  |  |
|  |                      | No  | ·                               |   |   |                   |  |  |
| Wetland Hydrology Present?  Remarks: (Explain alternative pre  |                      |   | If yes, optional Wetland S      | ite ib.   |   |                   |  |  |
|  |                      |   |                                 |   |   |                   |  |  |
| Wetland Hydrology Indicators: Primary Indicators (minimum of  Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) Sediment Deposits (B2) | ·<br>                | _ Water-Stained Lea<br>_ Aquatic Fauna (B1<br>_ Marl Deposits (B1<br>_ Hydrogen Sulfide | 3)<br>5)                        | Surface<br>Draina<br>Moss T<br>Dry-Se<br>Crayfis  | y Indicators (minimum<br>e Soil Cracks (B6)<br>ige Patterns (B10)<br>Frim Lines (B16)<br>iason Water Table (C2)<br>ish Burrows (C8) |                   |  |  |
| Drift Deposits (B3)  | _                    | _ Presence of Redu  | _                               | <ul><li> Saturation Visible on Aerial Imagery (C9)</li><li> Stunted or Stressed Plants (D1)</li></ul> |   |                   |  |  |
| Algal Mat or Crust (B4)  | _                    |   | ction in Tilled Soils (C6)      | Geomorphic Position (D2)  |   |                   |  |  |
| Iron Deposits (B5)   |                      | _ Thin Muck Surface   |                                 | Shallow Aquitard (D3)   |   |                   |  |  |
| <ul><li> Inundation Visible on Aerial I</li><li> Sparsely Vegetated Concave</li></ul>  |                      | _ Other (Explain in I   | Remarks)                        | Microtopographic Relief (D4)  |   |                   |  |  |
| sparsely vegetated Coricave  | Surface (Bo)         |   |                                 | FAC-Ne  | eutral Test (D5)  |                   |  |  |
| Field Observations:  |                      |   |                                 |   |   |                   |  |  |
| Surface Water Present?   | Yes No _             | ✓ Depth   | (inches):                       | _   |   |                   |  |  |
| Water Table Present?   | Yes No _             | ✓ Depth   | (inches):                       | Wetland F   | Hydrology Present?  | Yes No            |  |  |
| Saturation Present?  | Yes No _             | ✓ Depth   | (inches):                       |   |   |                   |  |  |
| (includes capillary fringe)  |                      |   | ·                               | -   |   |                   |  |  |
| Describe Recorded Data (stream   | gauge monitoring     | well aerial nhoto   | s previous inspections) if:     | availahle:  |   | <del></del>       |  |  |
| Describe necorded bata (stream   | r gauge, monitoring  | g weii, aeriai prioto.  | s, previous irispections), ir o | avallable.  |   |                   |  |  |
| Remarks:   |                      |   |                                 | ·   |   |                   |  |  |
|  |                      |   |                                 |   |   |                   |  |  |
|  |                      |   |                                 |   |   |                   |  |  |
|  |                      |   |                                 |   |   |                   |  |  |
|  |                      |   |                                 |   |   |                   |  |  |
|  |                      |   |                                 |   |   |                   |  |  |
|  |                      |   |                                 |   |   |                   |  |  |
|  |                      |   |                                 |   |   |                   |  |  |

|  |               |             |        | T   |                 |               |
|--|---------------|-------------|--------|---|-----------------|---------------|
| <u>Tree Stratum</u> (Plot size: <u>30 ft</u> )             |               | Dominant    |        | Dominance Test worksheet:                               |                 |               |
|  | % Cover       | Species?    | Status | Number of Dominant Species That                         | 0               | (A)           |
| 1.   |               |             |        | Are OBL, FACW, or FAC:                                  |                 |               |
| 2.   |               |             |        | Total Number of Dominant Species Across All Strata:     | 1               | (B)           |
| 3  |               |             |        |   |                 |               |
| 4  |               |             |        | Percent of Dominant Species That Are OBL, FACW, or FAC: | 0               | (A/B)         |
| 5  |               |             |        | Prevalence Index worksheet:                             |                 |               |
| 6.   |               |             |        |   | N.A. deimb      | D             |
| 7.   |               |             |        | Total % Cover of:                                       | <u>Multiply</u> | -             |
|  | 0             | = Total Cov | er     | OBL species 0   | x 1 =           | 0             |
| Sapling/Shrub Stratum (Plot size:15 ft)                    |               | -           |        | FACW species 0  | x 2 =           | 0             |
| . •  |               |             |        | FAC species 0   | x 3 =           | 0             |
|  |               |             |        | FACU species 5  | x 4 =           | 20            |
| 3.   | <del></del>   |             |        | - UPL species 40  | x 5 =           | 200           |
| 4.   |               |             |        | - Column Totals 45                                      | (A)             | 220 (B)       |
|  |               |             |        | Prevalence Index = B/A =                                | 4.9             |               |
| 5.   | <del></del>   |             |        | Hydrophytic Vegetation Indicators:                      |                 |               |
| 6.   |               |             |        | 1- Rapid Test for Hydrophytic \                         | √egetatior      | า             |
| 7  |               |             |        | 2 - Dominance Test is > 50%                             | O               |               |
|  | 0             | = Total Cov | er     | 3 - Prevalence Index is ≤ 3.01                          |                 |               |
| <u>Herb Stratum</u> (Plot size: <u>5 ft</u> )              |               |             |        | 4 - Morphological Adaptations                           | ¹ (Provide      | supporting    |
| 1. Zea mays  | 40            | Yes         | UPL    | data in Remarks or on a separate sh                     |                 | 20000.00.8    |
| 2. Ambrosia artemisiifolia                                 | 5             | No          | FACU   | Problematic Hydrophytic Vege                            |                 | xplain)       |
| 3  |               |             |        | ¹Indicators of hydric soil and wetlan                   |                 |               |
| 4.   |               |             |        | present, unless disturbed or proble                     |                 | 8,            |
| 5.   |               |             |        | Definitions of Vegetation Strata:                       | -               |               |
| 6.   |               |             |        | Tree – Woody plants 3 in. (7.6 cm) o                    | r more in       | diameter at   |
| 7.   |               |             |        | breast height (DBH), regardless of h                    |                 | alarricter at |
| 8.   |               |             |        | Sapling/shrub – Woody plants less t                     | _               | DBH and       |
| 9.   | <del></del>   |             |        | greater than or equal to 3.28 ft (1 m                   |                 |               |
| 10   |               |             |        | Herb – All herbaceous (non-woody)                       |                 | gardless of   |
| -  |               |             |        | size, and woody plants less than 3.2                    |                 | 0             |
| 11.  |               |             |        | Woody vines – All woody vines grea                      |                 | 3.28 ft in    |
| 12   |               |             |        | height.   |                 |               |
|  | 45            | = Total Cov | er     | Hydrophytic Vegetation Present?                         |                 | No. 1         |
| Woody Vine Stratum (Plot size: 30 ft )                     |               |             |        | Trydrophytic vegetation Fresent:                        | 1621            | VO            |
| 1  |               |             |        | -   |                 |               |
| 2  |               |             |        | _   |                 |               |
| 3.   |               |             |        | _   |                 |               |
| 4  |               |             |        |   |                 |               |
|  | 0             | = Total Cov | er     |   |                 |               |
| Demonstrat (Include the steer truth and house and a second |               | •           |        |   |                 |               |
| Remarks: (Include photo numbers here or on a sep           | arate sheet.) |             |        |   |                 |               |
|  |               |             |        |   |                 |               |
|  |               |             |        |   |                 |               |
|  |               |             |        |   |                 |               |
|  |               |             |        |   |                 |               |
|  |               |             |        |   |                 |               |
|  |               |             |        |   |                 |               |
|  |               |             |        |   |                 |               |

| Profile Desc | cription: (Describe       | to the de | epth needed to do | ocun   | nent the i        | ndicator         | or confirm the a            | bsence of indicator  | s.)                                    |
|--------------|---------------------------|-----------|-------------------|--------|-------------------|------------------|-----------------------------|----------------------|--|
| Depth        | Matrix                    |           | Redox             | Feat   | tures             |                  |                             |                      |  |
| (inches)     | Color (moist)             | %         | Color (moist)     | %      | Type <sup>1</sup> | Loc <sup>2</sup> | Tex                         | ture                 | Remarks                                |
| 0 - 12       | 10YR 3/2                  | 100       |                   |        |                   |                  | Silty Cla                   | ay Loam              |  |
| 12 - 20      | 10YR 3/2                  | 95        | 10YR 6/8          | 5      | C                 | M                | Clay                        | Loam                 |  |
|              |                           |           |                   | _      |                   |                  |                             |                      |  |
|              |                           |           |                   | _      |                   |                  |                             |                      |  |
|              |                           |           |                   | _      |                   |                  |                             |                      |  |
|              |                           |           |                   | _      |                   |                  |                             |                      |  |
|              |                           |           |                   | _      |                   |                  |                             |                      |  |
|              |                           |           |                   | _      |                   |                  |                             |                      |  |
|              |                           |           |                   | _      |                   |                  |                             |                      |  |
|              |                           |           |                   | _      |                   |                  |                             |                      |  |
|              |                           |           |                   | _      |                   |                  |                             |                      |  |
|              |                           |           |                   | _      |                   |                  |                             |                      |  |
|              |                           |           |                   | _      |                   |                  |                             |                      |  |
| ¹Type: C = C | Concentration, D =        | Depletio  | n, RM = Reduced   | Mat    | rix, MS =         | Masked           | Sand Grains. <sup>2</sup> L | ocation: PL = Pore I | Lining, M = Matrix.                    |
| Hydric Soil  | Indicators:               |           |                   |        |                   |                  |                             | Indicators for Pro   | oblematic Hydric Soils³:               |
| Histosol     | (A1)                      |           | Polyvalue Bel     | ow S   | urface (S         | 8) <b>(LRR I</b> | R, MLRA 149B)               |                      | 10) (LRR K, L, MLRA 149B)              |
| Histic Ep    | oipedon (A2)              |           | Thin Dark Sur     |        |                   |                  |                             |                      | Redox (A16) (LRR K, L, R)              |
| Black Hi     | •                         |           | Loamy Mucky       |        |                   |                  |                             |                      | Peat or Peat (S3) (LRR K, L, R)        |
| Hydroge      | en Sulfide (A4)           |           | Loamy Gleyed      | d Ma   | trix (F2)         |                  |                             | Dark Surface         |  |
| Stratifie    | d Layers (A5)             |           | Depleted Mat      | rix (I | F3)               |                  |                             |                      | ow Surface (S8) <b>(LRR K, L)</b>      |
| Deplete      | d Below Dark Surfa        | ace (A11  | ) Redox Dark S    | urfa   | ce (F6)           |                  |                             |                      | face (S9) <b>(LRR K, L)</b>            |
| Thick Da     | ark Surface (A12)         |           | Depleted Dar      | k Su   | rface (F7)        | )                |                             |                      | ese Masses (F12) (LRR K, L, R)         |
| Sandy M      | lucky Mineral (S1)        |           | Redox Depre       | ssior  | ns (F8)           |                  |                             |                      | odplain Soils (F19) <b>(MLRA 149B)</b> |
| Sandy G      | Gleyed Matrix (S4)        |           |                   |        |                   |                  |                             |                      | (TA6) (MLRA 144A, 145, 149B)           |
| Sandy R      | tedox (S5)                |           |                   |        |                   |                  |                             | Red Parent M         |  |
| Stripped     | d Matrix (S6)             |           |                   |        |                   |                  |                             |                      | Dark Surface (TF12)                    |
| Dark Su      | rface (S7) (LRR R, M      | /ILRA 149 | 9B)               |        |                   |                  |                             | Other (Explain       |  |
|              | 61 1 1 1                  |           |                   |        |                   |                  |                             | •                    | THI Remarks)                           |
| -            | of hydrophytic veg        |           | and wetland hydr  | olog   | y must b          | e presen         | t, unless disturbe          | ed or problematic.   |  |
|              | Layer (if observed):<br>_ |           |                   |        |                   | l                |                             |                      |  |
|              | Type:                     |           | None              |        |                   | Hydric           | Soil Present?               |                      | Yes No⁄_                               |
|              | Depth (inches):           |           |                   |        |                   |                  |                             |                      |  |
| Remarks:     |                           |           |                   |        |                   |                  |                             |                      |  |
|              |                           |           |                   |        |                   |                  |                             |                      |  |
|              |                           |           |                   |        |                   |                  |                             |                      |  |
|              |                           |           |                   |        |                   |                  |                             |                      |  |
|              |                           |           |                   |        |                   |                  |                             |                      |  |
|              |                           |           |                   |        |                   |                  |                             |                      |  |
|              |                           |           |                   |        |                   |                  |                             |                      |  |
|              |                           |           |                   |        |                   |                  |                             |                      |  |
|              |                           |           |                   |        |                   |                  |                             |                      |  |
|              |                           |           |                   |        |                   |                  |                             |                      |  |
|              |                           |           |                   |        |                   |                  |                             |                      |  |
|              |                           |           |                   |        |                   |                  |                             |                      |  |
|              |                           |           |                   |        |                   |                  |                             |                      |  |
|              |                           |           |                   |        |                   |                  |                             |                      |  |
|              |                           |           |                   |        |                   |                  |                             |                      |  |
|              |                           |           |                   |        |                   |                  |                             |                      |  |
|              |                           |           |                   |        |                   |                  |                             |                      |  |
|              |                           |           |                   |        |                   |                  |                             |                      |  |
|              |                           |           |                   |        |                   |                  |                             |                      |  |
|              |                           |           |                   |        |                   |                  |                             |                      |  |
|              |                           |           |                   |        |                   |                  |                             |                      |  |
|              |                           |           |                   |        |                   |                  |                             |                      |  |



Photo of Sample Plot East



Photo of Sample Plot South



Photo of Sample Plot West



| Applicant/Owner: SunEast   | roject City/Co                  | <b>ounty:</b> Canajoharie, Montgome | ery County           | Sampling Date: 202  | 21-Sept-14        |  |  |
|--|---------------------------------|-------------------------------------|----------------------|---|-------------------|--|--|
|  |                                 | Stat                                | e: NY                | Sampling Point: W-NS  | SD-20_PEM-1       |  |  |
| Investigator(s): Nick DeJohn, E  | Brian Corrigan                  | Section, Tov                        | vnship, Range: NA    | 4   |                   |  |  |
| Landform (hillslope, terrace, etc  | c.): Depression                 | Local relief (concav                | e, convex, none):    | Concave   | Slope (%): 0 to 1 |  |  |
| Subregion (LRR or MLRA):   | LRR L                           | Lat: 42.8440                        | 0057766 <b>Long:</b> | -74.5320570097  | Datum: WGS84      |  |  |
| Soil Map Unit Name: Darien   | silt loam, 3 to 8 percent slop  | pes                                 | _                    | NWI classificatio   | n:                |  |  |
| Are climatic/hydrologic condition  | ns on the site typical for this | s time of year? Yes _               | ✓ No (If no          | , explain in Remarks.)  |                   |  |  |
| Are Vegetation, Soil,  | or Hydrology sign               | nificantly disturbed? Are           | "Normal Circumst     | ances" present?   | Yes No            |  |  |
| Are Vegetation, Soil,  | or Hydrology nati               | urally problematic? (If n           | eeded, explain an    | y answers in Remarks.   | )                 |  |  |
| SUMMARY OF FINDINGS – A<br>Hydrophytic Vegetation Presen<br>Hydric Soil Present?<br>Wetland Hydrology Present? | •                               | Is the Sampled Are                  | ea within a Wetland  | d? Yes  | No<br> SD-20      |  |  |
|  |                                 |                                     |                      |   |                   |  |  |
| HYDROLOGY Wetland Hydrology Indicators:  |                                 |                                     |                      |   |                   |  |  |
| Primary Indicators (minimum o  | of one is required; check all t | that apply)                         | Secondary            | Indicators (minimum   | of two required)  |  |  |
| Surface Water (A1)   | Water-                          | Stained Leaves (B9)                 | Surface              | e Soil Cracks (B6)  |                   |  |  |
| Surface Water (A1) High Water Table (A2)   |                                 | c Fauna (B13)                       |                      | Drainage Patterns (B10)   |                   |  |  |
| ✓ Saturation (A3)  |                                 | eposits (B15)                       |                      | Moss Trim Lines (B16)   |                   |  |  |
| Water Marks (B1)   |                                 | gen Sulfide Odor (C1)               | •                    | Dry-Season Water Table (C2)   |                   |  |  |
| Sediment Deposits (B2)   | Oxidize                         | ed Rhizospheres on Living Root      | rs (( 3)             | 3) Crayfish Burrows (C8)<br>∕ Saturation Visible on Aerial Imagery (C9) |                   |  |  |
| Drift Deposits (B3)  | <del></del>                     | ice of Reduced Iron (C4)            | Stunte               | Stunted or Stressed Plants (D1)   |                   |  |  |
| Algal Mat or Crust (B4)  |                                 | Iron Reduction in Tilled Soils (    | (6)                  | Geomorphic Position (D2)  |                   |  |  |
| Iron Deposits (B5)   |                                 | luck Surface (C7)                   | <del></del>          | Shallow Aquitard (D3)   |                   |  |  |
| <ul><li> Inundation Visible on Aerial</li><li> Sparsely Vegetated Concave</li></ul>                            |                                 | (Explain in Remarks)                | Microt               | opographic Relief (D4)  |                   |  |  |
|  |                                 |                                     | FAC-N∈               | eutral Test (D5)  |                   |  |  |
| Field Observations:  |                                 |                                     |                      |   |                   |  |  |
| C. unfano Motor Duananto   | Yes No _ <b>_</b>               | Depth (inches):                     |                      |   |                   |  |  |
| Surface Water Present?   | Yes No                          | Depth (inches):                     | 0 Wetland H          | lydrology Present?  | Yes No            |  |  |
| Water Table Present?   |                                 |                                     | _                    |   |                   |  |  |
|  | Yes No                          | Depth (inches):                     | 0                    |   |                   |  |  |
| Water Table Present?   | Yes No                          |                                     |                      |   |                   |  |  |

| Total Cover  Yes FAC NO OI NO FAC  | Number of Do Are OBL, FACV Total Number Across All Stra Percent of Doi Are OBL, FACV Prevalence Inc Total OBL species FACW species FACU species UPL species Column Totals Prev Hydrophytic V 1 - Rapid 1 - 2 - Domi | ominant Species That<br>V, or FAC:<br>of Dominant Species<br>ta:<br>minant Species That  | 1<br>100<br>Multiply  <br>×1 =<br>×2 =<br>×3 =<br>×4 =<br>×5 =<br>(A)    | (A) (B) (A/B)  By: 25 150 0 20 0                       |
|------------------------------------|---|--|--|--|
| Total Cover  Yes FAC No OI         | Are OBL, FACV Total Number Across All Stra Percent of Dot Are OBL, FACV Prevalence Inc Total OBL species FACW species FACU species UPL species Column Totals Prev Hydrophytic V 1 - Rapid 2 - Domi                  | V, or FAC: of Dominant Species sta: minant Species That V, or FAC: dex worksheet: % Cover of:  25 75 0 5 0 105 valence Index = B/A = egetation Indicators: | 1<br>100<br>Multiply<br>x 1 =<br>x 2 =<br>x 3 =<br>x 4 =<br>x 5 =<br>(A) | (B) (A/B)  By: 25 150 0 20                             |
| Total Cover  Yes FAC  No OI  No OI | Total Number Across All Stra Percent of Dot Are OBL, FACV Prevalence Inc Total OBL species FACW species FACU species UPL species Column Totals Prev Hydrophytic V 1 - Rapid 2 - Domi                                | of Dominant Species sta: minant Species That N, or FAC: dex worksheet: % Cover of:  25 75 0 5 0 105 valence Index = B/A = egetation Indicators:            | Multiply   x 1 =   | (A/B)  By:  25  150  0  20                             |
| Total Cover  Yes FAC  No OI  No OI | Across All Stra Percent of Doi Are OBL, FACV Prevalence Inc Total OBL species FACW species FACU species UPL species Column Totals Prev Hydrophytic V 1 - Rapid 2 - Domi   | rita: minant Species That N, or FAC: dex worksheet: % Cover of:  25  75  0  5  0  105  valence Index = B/A = egetation Indicators:                         | Multiply   x 1 =   | (A/B)  By:  25  150  0  20                             |
| Total Cover  Yes FAC  No OI  No OI | Are OBL, FACV Prevalence Inc Total OBL species FACW species FAC species UPL species UPL species Column Totals Prev Hydrophytic V 1 - Rapid 2 - Domin  | V, or FAC:  dex worksheet: % Cover of:  25  75  0  5  0  105  valence Index = B/A = egetation Indicators:  | Multiply   x 1 =   | By: 25 150 0 20  |
| Total Cover  Yes FAC  No OI  No OI | Prevalence Inc  Total  OBL species  FACW species  FACU species  UPL species  Column Totals  Prev  Hydrophytic V  1 - Rapid  2 - Domin   | dex worksheet:  % Cover of:  25  75  0  5  0  105  valence Index = B/A = egetation Indicators:   | Multiply   x 1 =   | By: 25 150 0 20  |
| Total Cover  Yes FAC  No OI  No OI | Total OBL species FACW species FAC species FACU species UPL species Column Totals Prev. Hydrophytic V1- Rapid2 - Domin  | 25   75   0   5   0   105  | x 1 =<br>x 2 =<br>x 3 =<br>x 4 =<br>x 5 =<br>(A)                         | 25<br>150<br>0<br>20                                   |
| Total Cover  Yes FAC  No OI  No OI | OBL species FACW species FAC species FACU species UPL species Column Totals Prev. Hydrophytic V 1- Rapid 2 - Domin  | 25<br>75<br>0<br>5<br>0<br>105<br>valence Index = B/A =  | x 1 =<br>x 2 =<br>x 3 =<br>x 4 =<br>x 5 =<br>(A)                         | 25<br>150<br>0<br>20                                   |
| Total Cover  Yes FAC  No OI  No OI | OBL species FACW species FAC species FACU species UPL species Column Totals Prev. Hydrophytic V 1- Rapid 2 - Domin  | 25<br>75<br>0<br>5<br>0<br>105<br>valence Index = B/A =  | x 1 =<br>x 2 =<br>x 3 =<br>x 4 =<br>x 5 =<br>(A)                         | 25<br>150<br>0<br>20                                   |
| Total Cover  Yes FAC  No OI  No OI | FACW species FAC species FACU species UPL species Column Totals Prev Hydrophytic V 1 - Rapid 2 - Domi   | 75<br>0<br>5<br>0<br>105<br>valence Index = B/A =  | x 2 =<br>x 3 =<br>x 4 =<br>x 5 =<br>(A)                                  | 150<br>0<br>20   |
| Yes FAC<br>No OI<br>No OI          | FAC species FACU species UPL species Column Totals Prev Hydrophytic V 1 - Rapid 2 - Domin   | 0<br>5<br>0<br>105<br>valence Index = B/A =  | x 3 =<br>x 4 =<br>x 5 =<br>(A)   | 0<br>20  |
| Yes FAC<br>No OI<br>No OI          | FACU species UPL species Column Totals Prev Hydrophytic V 1 - Rapid 2 - Domin   | 5<br>0<br>105<br>valence Index = B/A =   | x 4 =<br>x 5 =<br>(A)  | 20   |
| Yes FAC<br>No OI<br>No OI          | UPL species Column Totals Prev Hydrophytic V 1 - Rapid 2 - Domin  | $\frac{0}{105}$ valence Index = B/A = Regetation Indicators:   | x 5 =  |  |
| Yes FAC<br>No OI<br>No OI          | Column Totals Prev Hydrophytic V 1- Rapid 2 - Domin   | 105 valence Index = B/A = degetation Indicators:   | (A)  |  |
| Yes FAC<br>No OI<br>No OI          | Hydrophytic V  1- Rapid  2 - Domi   | valence Index = B/A =<br>egetation Indicators:   | _  | -  |
| Yes FAC<br>No OI<br>No OI          | Hydrophytic V  1- Rapid  2 - Domin  | egetation Indicators:  | <u> 1.9</u>  | 195 (B)  |
| Yes FAC<br>No OI<br>No OI          |   | J  |  |  |
| Yes FAC<br>No OI<br>No OI          | 2 - Domi  | Test for Hydrophytic \   |  |  |
| Yes FAC<br>No OI<br>No OI          |   |  | /egetation   |  |
| Yes FAC<br>No OI<br>No OI          | _ ✓ 3 - Preva   | nance Test is >50%   |  |  |
| No Of                              |   | lence Index is ≤ 3.01  |  |  |
| No Of                              | 4 - Morp  | hological Adaptations  | ¹ (Provide s   | supporting   |
| No Of                              | ·///  | ks or on a separate sh   |  | 11 0   |
|                                    | 01  | atic Hydrophytic Vege  |  | plain)   |
| No FAC                             |   | hydric soil and wetlan   |  | •  |
|                                    |   | s disturbed or proble  | -  | 5)   |
| No FA                              | I <del>`</del>  | Vegetation Strata:   |  |  |
|                                    |   | plants 3 in. (7.6 cm) o  | r more in c  | diameter at  |
|                                    |   | (DBH), regardless of h   |  | nameter at   |
|                                    |   | – Woody plants less t  |  | )BH and  |
|                                    |   | or equal to 3.28 ft (1 m   |  | -Birana  |
| <del></del>                        |   | baceous (non-woody)  |  | ardless of   |
|                                    |   | dy plants less than 3.2  |  | ,ar aress or   |
|                                    |   | - All woody vines grea   |  | 28 ft in   |
|                                    |   | 7 iii Woody Villes grea  | cer criari 5.  | 2010111  |
| Total Cover                        |   | /  |  |  |
|                                    | Hydrophytic   | vegetation Present?  | yes <u> </u>   | 0  |
|                                    |   |  |  |  |
|                                    |   |  |  |  |
|                                    |   |  |  |  |
|                                    | <del></del>   |  |  |  |
|                                    |   |  |  |  |
| Total Cover                        | <del></del> [   |  |  |  |
| Total Cover                        |   |  |  |  |
| Total                              | Cover   | Cover height.  Hydrophytic V   | Cover Height.  Hydrophytic Vegetation Present?                           | Cover height.  Hydrophytic Vegetation Present? Yes ✓ N |

| Profile Desc    | cription: (Describe t            | to the   | depth needed to d | docun | nent the i        | ndicato       | r or confirm the          | absence of i  | indicators.)                                   |
|-----------------|----------------------------------|----------|-------------------|-------|-------------------|---------------|---------------------------|---------------|--|
| Depth           | Matrix                           |          | Redox             | Feat  | ures              |               |                           |               |  |
| (inches)        | Color (moist)                    | %        | Color (moist)     | %     | Type <sup>1</sup> | Loc2          | Textur                    | e             | Remarks  |
| 0 - 20          | 10YR 4/1                         | 90       | 5YR 3/4           | 10    | C                 | M             | Clay Loa                  | am            |  |
|                 |                                  |          |                   |       |                   |               |                           |               |  |
|                 |                                  | _        |                   |       |                   |               |                           |               |  |
|                 |                                  |          |                   |       |                   |               |                           |               |  |
|                 |                                  | _        |                   |       |                   |               |                           |               |  |
|                 |                                  |          |                   |       |                   |               |                           |               |  |
|                 |                                  | -        |                   |       |                   |               |                           |               | -  |
|                 |                                  |          |                   |       |                   |               | -                         |               |  |
|                 |                                  |          |                   |       |                   |               |                           |               |  |
|                 |                                  | - —      |                   |       |                   |               | -                         |               |  |
|                 |                                  | - —      |                   | _     |                   |               |                           |               |  |
|                 |                                  | - —      |                   |       |                   |               |                           |               |  |
| l <del></del> . |                                  |          |                   |       |                   | <del></del> . |                           | <del></del> . |  |
|                 | Concentration, D = [             | Deplet   | ion, RM = Reduce  | d Mat | rix, MS =         | Masked        | Sand Grains. <sup>2</sup> |               | = Pore Lining, M = Matrix.                     |
| Hydric Soil     |                                  |          |                   |       |                   |               |                           | Indicator     | rs for Problematic Hydric Soils³:              |
| Histosol        |                                  |          | Polyvalue Be      |       |                   |               |                           | 2 cm          | Muck (A10) (LRR K, L, MLRA 149B)               |
|                 | oipedon (A2)                     |          | Thin Dark Su      |       |                   |               |                           | Coas          | t Prairie Redox (A16) <b>(LRR K, L, R)</b>     |
| Black Hi        |                                  |          | Loamy Muck        | -     |                   | (LRR K,       | L)                        | 5 cm          | Mucky Peat or Peat (S3) (LRR K, L, R)          |
|                 | en Sulfide (A4)<br>d Layers (A5) |          | Loamy Gleye       |       |                   |               |                           | Dark          | Surface (S7) (LRR K, L)                        |
|                 | d Below Dark Surfa               | re (Δ1   |                   |       | •                 |               |                           |               | alue Below Surface (S8) (LRR K, L)             |
|                 | ark Surface (A12)                | 100 (711 | Depleted Da       |       |                   | ١             |                           |               | Dark Surface (S9) <b>(LRR K, L)</b>            |
|                 | fucky Mineral (S1)               |          | Redox Depre       |       |                   |               |                           |               | Manganese Masses (F12) (LRR K, L, R)           |
|                 | Gleyed Matrix (S4)               |          |                   |       | ,                 |               |                           |               | nont Floodplain Soils (F19) <b>(MLRA 149B)</b> |
| -               | ledox (S5)                       |          |                   |       |                   |               |                           |               | c Spodic (TA6) <b>(MLRA 144A, 145, 149B)</b>   |
| _               | d Matrix (S6)                    |          |                   |       |                   |               |                           |               | Parent Material (F21)                          |
|                 | rface (S7) <b>(LRR R, M</b>      | II RA 1  | 49R)              |       |                   |               |                           | -             | Shallow Dark Surface (TF12)                    |
|                 |                                  |          | .52,              |       |                   |               |                           | Othe          | r (Explain in Remarks)                         |
| -               | of hydrophytic vege              |          | and wetland hyd   | rolog | y must b          | e preser      | nt, unless disturb        | ed or probl   | ematic.  |
| Restrictive I   | _ayer (if observed):             |          |                   |       |                   |               |                           |               |  |
|                 | Type:                            |          | None              |       |                   | Hydric        | Soil Present?             |               | Yes No   |
|                 | Depth (inches):                  |          |                   |       |                   |               |                           |               |  |
| Remarks:        |                                  |          |                   |       |                   |               |                           |               |  |
|                 |                                  |          |                   |       |                   |               |                           |               |  |
|                 |                                  |          |                   |       |                   |               |                           |               |  |
|                 |                                  |          |                   |       |                   |               |                           |               |  |
|                 |                                  |          |                   |       |                   |               |                           |               |  |
|                 |                                  |          |                   |       |                   |               |                           |               |  |
|                 |                                  |          |                   |       |                   |               |                           |               |  |
|                 |                                  |          |                   |       |                   |               |                           |               |  |
|                 |                                  |          |                   |       |                   |               |                           |               |  |
|                 |                                  |          |                   |       |                   |               |                           |               |  |
|                 |                                  |          |                   |       |                   |               |                           |               |  |
|                 |                                  |          |                   |       |                   |               |                           |               |  |
|                 |                                  |          |                   |       |                   |               |                           |               |  |
|                 |                                  |          |                   |       |                   |               |                           |               |  |
|                 |                                  |          |                   |       |                   |               |                           |               |  |
|                 |                                  |          |                   |       |                   |               |                           |               |  |
|                 |                                  |          |                   |       |                   |               |                           |               |  |
|                 |                                  |          |                   |       |                   |               |                           |               |  |
|                 |                                  |          |                   |       |                   |               |                           |               |  |
|                 |                                  |          |                   |       |                   |               |                           |               |  |
|                 |                                  |          |                   |       |                   |               |                           |               |  |

Hydrology Photos





Photo of Sample Plot North



Photo of Sample Plot West



| Project/Site: Flat Creek Solar Pro                            | ject                                  | City/County: Can                            | ajoharie, Montgomery Cou       | nery County Sampling Date: 2021-Sept-1                              |                          |                   |  |  |
|---|---------------------------------------|---|--------------------------------|---|--------------------------|-------------------|--|--|
| Applicant/Owner: SunEast                                      |                                       |   | State: NY                      |   | Sampling Point: W-N      | SD-20_UPL-1       |  |  |
| Investigator(s): Nick DeJohn, Bi                              | rian Corrigan                         |   | Section, Township,             | Range: NA   | 4                        |                   |  |  |
| Landform (hillslope, terrace, etc.)                           | : Flat                                |   | Local relief (concave, conv    | ex, none):_   | Undulating               | Slope (%): 0 to 1 |  |  |
| Subregion (LRR or MLRA):                                      | RR L                                  |   | Lat: 42.844019397              | '2 Long:_   | -74.532157844            | Datum: WGS84      |  |  |
| Soil Map Unit Name: Darien si                                 | lt loam, 3 to 8 perc                  | ent slopes                                  |                                |   | NWI classificatio        | on:               |  |  |
| Are climatic/hydrologic condition                             | s on the site typica                  | l for this time of ye                       | ar? Yes <u></u> ✓ No           | (If no  | , explain in Remarks.)   | )                 |  |  |
| Are Vegetation, Soil,   |                                       | significantly dis                           |                                | al Circumst   | tances" present?         | Yes No            |  |  |
| Are Vegetation, Soil,   | or Hydrology _                        | naturally probl                             | ematic? (If needed,            | explain any   | y answers in Remarks     | 5.)               |  |  |
| SUMMARY OF FINDINGS – A                                       |                                       | showing sampli                              | ng point locations, trar       | nsects, im  | portant features,        | etc.              |  |  |
| Hydric Soil Present?  |                                       | No  | Is the Sampled Area withi      | in a Wetland  | d? Ve                    | s No⁄_            |  |  |
|   |                                       |   | ;                              |   | u. 1c.                   | 3110              |  |  |
| Wetland Hydrology Present?  Remarks: (Explain alternative pro | · · · · · · · · · · · · · · · · · · · | No  | If yes, optional Wetland Si    | ite ID:   |                          |                   |  |  |
|   |                                       |   |                                |   |                          |                   |  |  |
| HYDROLOGY Wetland Hydrology Indicators:                       |                                       |   |                                |   |                          |                   |  |  |
| Primary Indicators (minimum of                                | one is required; ch                   | neck all that apply)                        |                                | Secondary   | y Indicators (minimum    | of two required)  |  |  |
| Surface Water (A1)  | •                                     | Water Stained Lea                           | 2) (OS (PQ)                    | Surface   | e Soil Cracks (B6)       | •                 |  |  |
| Surface Water (A1) High Water Table (A2)                      |                                       | _ Water-Stained Lea<br>_ Aquatic Fauna (B1  |                                | Draina  | ige Patterns (B10)       |                   |  |  |
| Saturation (A3)   |                                       | _ Aquatic Fauria (B1<br>_ Marl Deposits (B1 |                                | Moss Trim Lines (B16)   |                          |                   |  |  |
| Water Marks (B1)  |                                       | _ Hydrogen Sulfide                          |                                | Dry-Season Water Table (C2)   |                          |                   |  |  |
| Sediment Deposits (B2)  | _                                     | _ Oxidized Rhizosph                         | neres on Living Roots (C3)     | C3) Crayfish Burrows (C8) Saturation Visible on Aerial Imagery (C9) |                          |                   |  |  |
| Drift Deposits (B3)   | _                                     | _ Presence of Redu                          |                                |   | ed or Stressed Plants (l |                   |  |  |
| Algal Mat or Crust (B4)                                       | _                                     |   | ction in Tilled Soils (C6)     |   | orphic Position (D2)     | <i>5</i> 1,       |  |  |
| Iron Deposits (B5)  |                                       | _ Thin Muck Surface                         |                                |   | w Aquitard (D3)          |                   |  |  |
| Inundation Visible on Aerial I<br>Sparsely Vegetated Concave  |                                       | _ Other (Explain in I                       | Remarks)                       |   | opographic Relief (D4    | )                 |  |  |
| Sparsely vegetated concave                                    |                                       |   |                                | FAC-Ne  | eutral Test (D5)         |                   |  |  |
| Field Observations:   |                                       |   |                                |   |                          |                   |  |  |
| Surface Water Present?  | Yes No _                              | <u>✓</u> Depth                              | (inches):                      | _   |                          |                   |  |  |
| Water Table Present?  | Yes No _                              | ✓ Depth                                     | (inches):                      | Wetland F   | Hydrology Present?       | Yes No            |  |  |
| Saturation Present?   | Yes No _                              | ✓ Depth                                     | (inches):                      |   |                          |                   |  |  |
| (includes capillary fringe)                                   |                                       |   |                                | -   |                          |                   |  |  |
| Describe Recorded Data (stream                                | gauge, monitoring                     | g well, aerial photo                        | s, previous inspections), if a | available:  |                          |                   |  |  |
|   |                                       |   |                                |   |                          |                   |  |  |

| Indicator Status | Dominance Test worksheet:  Number of Dominant Species Are OBL, FACW, or FAC:  Total Number of Dominant Species Are OBL, FACW, or FAC:  Percent of Dominant Species Are OBL, FACW, or FAC:  Prevalence Index worksheet:  Total % Cover of:  OBL species  OFACW species  10 FAC species  0 FACU species  0 FACU species  10 Column Totals  80 Prevalence Index = I   | ecies 1  That 0  Multiply  | (A) (B) (A/B)  / By: 0 20 0  |
|------------------|--|--|--|
|                  | Are OBL, FACW, or FAC: Total Number of Dominant Sp Across All Strata: Percent of Dominant Species Are OBL, FACW, or FAC: Prevalence Index worksheet: Total % Cover of: OBL species FACW species FAC species UPL species Column Totals 80   | ecies 1  That 0  Multiply  | (B) (A/B)  / By: 0 20  |
| er               | Total Number of Dominant Spaces Across All Strata: Percent of Dominant Species Are OBL, FACW, or FAC: Prevalence Index worksheet: Total % Cover of: OBL species 0 FACW species 10 FAC species 0 FACU species 60 UPL species 10 Column Totals 80  | Multiply x 1 = x 2 = x 3 = x 4 =   | (A/B)  / By:  0 20   |
| er               | Across All Strata: Percent of Dominant Species Are OBL, FACW, or FAC: Prevalence Index worksheet: Total % Cover of: OBL species FACW species FAC species UPL species 10 Column Totals 80   | Multiply x 1 = x 2 = x 3 = x 4 =   | (A/B)  / By:  0 20   |
| er               | Percent of Dominant Species Are OBL, FACW, or FAC: Prevalence Index worksheet: Total % Cover of: OBL species FACW species FAC species 0 FACU species 0 FACU species 0 UPL species 10 Column Totals 80  | Multiply x1 = x2 = x3 = x4 =   | 0<br>20  |
| er               | Are OBL, FACW, or FAC:  Prevalence Index worksheet:  Total % Cover of:  OBL species  FACW species  FAC species  OFACU species  OFACU species  OUPL species | Multiply x1 = x2 = x3 = x4 =   | 0<br>20  |
| er               | Prevalence Index worksheet:           Total % Cover of:           OBL species         0           FACW species         10           FAC species         0           FACU species         60           UPL species         10           Column Totals         80  | x 1 =<br>x 2 =<br>x 3 =<br>x 4 =   | 0 20   |
| er               | Total % Cover of:  | x 1 =<br>x 2 =<br>x 3 =<br>x 4 =   | 0 20   |
| er               | OBL species         0           FACW species         10           FAC species         0           FACU species         60           UPL species         10           Column Totals         80  | x 1 =<br>x 2 =<br>x 3 =<br>x 4 =   | 0 20   |
| er               | FACW species         10           FAC species         0           FACU species         60           UPL species         10           Column Totals         80  | x 2 =<br>x 3 =<br>x 4 =  | 20   |
|                  | FAC species         0           FACU species         60           UPL species         10           Column Totals         80  | x 3 = x 4 =  |  |
|                  | - FACU species 60 - UPL species 10 - Column Totals 80  | x 4 =  | 0  |
|                  | UPL species 10 Column Totals 80  |  |  |
|                  | - Column Totals 80   | F =  | 240  |
|                  |  | x 5 =  | 50   |
|                  | Prevalence Index = I   | (A)  | 310 (B)  |
|                  |  | 3/A = <u>3.9</u>   |  |
|                  | Hydrophytic Vegetation Indica  | tors:  |  |
|                  | 1- Rapid Test for Hydrop   |  | 0  |
|                  | 2 - Dominance Test is > 5  |  |  |
| er               | 3 - Prevalence Index is ≤  |  |  |
|                  |  |  |  |
| FACU             |  |  | supporting   |
| FACW             | -  |  |  |
| UPI              |  | _  | •  |
| 0. 2             | -  | -  | igy must be  |
|                  |  |  |  |
|                  | _  |  |  |
|                  |  |  | diameter at  |
|                  |  | _  |  |
|                  | _   ' ' ' ' ' ' ' ' ' ' ' ' ' ' ' ' ' '  |  | DBH and  |
|                  | _   -  |  |  |
|                  |  |  | gardiess of  |
|                  |  |  | 20 ft :  |
|                  |  | s greater than a   | 28 π in  |
| er               |  |  |  |
|                  | Hydrophytic Vegetation Prese   | ent? Yes l   | No 🔽   |
|                  |  |  |  |
|                  | _  |  |  |
|                  | _  |  |  |
|                  | -  |  |  |
| or               | -  |  |  |
| CI               |  |  |  |
|                  |  | data in Remarks or on a separ Problematic Hydrophytic Indicators of hydric soil and w present, unless disturbed or p Definitions of Vegetation Strat Tree – Woody plants 3 in. (7.6 breast height (DBH), regardles Sapling/shrub – Woody plants greater than or equal to 3.28 f Herb – All herbaceous (non-westize, and woody plants less the Woody vines – All woody vines height. Hydrophytic Vegetation Preserver | FACW UPL  Indicators of hydric soil and wetland hydrologopresent, unless disturbed or problematic  Definitions of Vegetation Strata:  Tree – Woody plants 3 in. (7.6 cm) or more in breast height (DBH), regardless of height.  Sapling/shrub – Woody plants less than 3 in. greater than or equal to 3.28 ft (1 m) tall.  Herb – All herbaceous (non-woody) plants, resize, and woody plants less than 3.28 ft tall.  Woody vines – All woody vines greater than 3 height.  Hydrophytic Vegetation Present? Yes 1 |

|                      | cription: (Describe         | to the de |                  |       |                   | indicato         | r or confirm the    | absence o              | f indicators.)                                 |
|----------------------|-----------------------------|-----------|------------------|-------|-------------------|------------------|---------------------|------------------------|--|
| Depth _              | Matrix                      |           | Redox            |       |                   |                  |                     |                        |  |
| (inches)             | Color (moist)               | %         | Color (moist)    | %     | Type <sup>1</sup> | Loc <sup>2</sup> | Texture             |                        | Remarks  |
| 0 - 20               | 10YR 4/4                    | 100       |                  |       |                   |                  |                     |                        |  |
|                      |                             |           |                  |       |                   |                  |                     |                        |  |
|                      |                             |           |                  | _     |                   |                  |                     |                        |  |
| l                    |                             |           |                  |       |                   |                  | -                   |                        |  |
| <u> </u>             |                             |           |                  | _     |                   |                  | -                   |                        |  |
| l                    |                             |           |                  |       |                   |                  | -                   |                        |  |
|                      |                             |           |                  |       |                   |                  |                     |                        |  |
|                      |                             |           |                  |       |                   |                  |                     |                        |  |
|                      |                             |           |                  |       |                   |                  |                     |                        |  |
|                      |                             |           |                  |       |                   |                  |                     |                        |  |
|                      |                             |           |                  |       |                   |                  |                     |                        |  |
|                      |                             |           |                  |       |                   |                  |                     |                        |  |
|                      |                             |           |                  |       |                   |                  |                     |                        |  |
|                      |                             |           |                  |       |                   |                  |                     |                        |  |
| <u>1</u> Type: C = C | Concentration, D =          | Depletio  | n, RM = Reduced  | Mat   | rix, MS =         | Masked           | Sand Grains. 2      | <sup>2</sup> Location: | PL = Pore Lining, M = Matrix.                  |
| Hydric Soil          | ndicators:                  |           |                  |       |                   |                  |                     | Indicat                | ors for Problematic Hydric Soils³:             |
| Histosol             | (A1)                        |           | Polyvalue Bel    | ow S  | urface (S         | 8) (LRR          | R, MLRA 149B)       | 2 (1                   | m Muck (A10) <b>(LRR K, L, MLRA 149B)</b>      |
| Histic Ep            | oipedon (A2)                |           | Thin Dark Sur    | face  | (S9) (LRF         | R, MLR           | A 149B)             |                        | ast Prairie Redox (A16) (LRR K, L, R)          |
| Black Hi             | stic (A3)                   |           | Loamy Mucky      | / Mir | eral (F1)         | (LRR K, I        | _)                  |                        | m Mucky Peat or Peat (S3) (LRR K, L, R)        |
| Hydroge              | en Sulfide (A4)             |           | Loamy Gleye      | d Ma  | trix (F2)         |                  |                     |                        |  |
|                      | d Layers (A5)               |           | Depleted Mat     |       |                   |                  |                     |                        | rk Surface (S7) (LRR K, L)                     |
|                      | d Below Dark Surfa          |           |                  |       |                   |                  |                     |                        | yvalue Below Surface (S8) (LRR K, L)           |
|                      | ark Surface (A12)           |           | <br>Depleted Dar |       |                   | )                |                     |                        | n Dark Surface (S9) <b>(LRR K, L)</b>          |
|                      | lucky Mineral (S1)          |           | Redox Depre      |       |                   | ,                |                     | Iron                   | n-Manganese Masses (F12) (LRR K, L, R)         |
|                      |                             |           | Redox Depre      | 33101 | 13 (1 0)          |                  |                     | Pie                    | dmont Floodplain Soils (F19) (MLRA 149B)       |
| -                    | ileyed Matrix (S4)          |           |                  |       |                   |                  |                     | Me                     | sic Spodic (TA6) <b>(MLRA 144A, 145, 149B)</b> |
| _                    | edox (S5)                   |           |                  |       |                   |                  |                     | Rec                    | Parent Material (F21)                          |
| Stripped             | d Matrix (S6)               |           |                  |       |                   |                  |                     | Ver                    | y Shallow Dark Surface (TF12)                  |
| Dark Su              | rface (S7) <b>(LRR R, M</b> | ILRA 149  | 9B)              |       |                   |                  |                     |                        | ner (Explain in Remarks)                       |
| 3Indicators          | of hydrophytic veg          | etation a | and wetland hydr | വിറമ  | v must h          | e nreser         | nt unless disturh   |                        | •  |
| -                    |                             |           | ana wedana nyai  | olog  | y masc b          | Preser           | ic, arriess distart | oca or pro             | biernatie.                                     |
|                      | _ayer (if observed):<br>    |           |                  |       |                   |                  | c :: b .: .:        |                        |  |
|                      | Type:                       |           | None             |       |                   | Hydric           | Soil Present?       | ,                      | ⁄es No _ <b>_∕</b> _                           |
| -                    | Depth (inches):             |           |                  |       |                   |                  |                     |                        |  |
| Remarks:             |                             |           |                  |       |                   |                  |                     |                        |  |
|                      |                             |           |                  |       |                   |                  |                     |                        |  |
|                      |                             |           |                  |       |                   |                  |                     |                        |  |
|                      |                             |           |                  |       |                   |                  |                     |                        |  |
|                      |                             |           |                  |       |                   |                  |                     |                        |  |
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|                      |                             |           |                  |       |                   |                  |                     |                        |  |
|                      |                             |           |                  |       |                   |                  |                     |                        |  |
|                      |                             |           |                  |       |                   |                  |                     |                        |  |
|                      |                             |           |                  |       |                   |                  |                     |                        |  |
|                      |                             |           |                  |       |                   |                  |                     |                        |  |
|                      |                             |           |                  |       |                   |                  |                     |                        |  |
|                      |                             |           |                  |       |                   |                  |                     |                        |  |
|                      |                             |           |                  |       |                   |                  |                     |                        |  |
|                      |                             |           |                  |       |                   |                  |                     |                        |  |
|                      |                             |           |                  |       |                   |                  |                     |                        |  |
|                      |                             |           |                  |       |                   |                  |                     |                        |  |
|                      |                             |           |                  |       |                   |                  |                     |                        |  |
| ]                    |                             |           |                  |       |                   |                  |                     |                        |  |
| ]                    |                             |           |                  |       |                   |                  |                     |                        |  |
| ]                    |                             |           |                  |       |                   |                  |                     |                        |  |
| ]                    |                             |           |                  |       |                   |                  |                     |                        |  |
|                      |                             |           |                  |       |                   |                  |                     |                        |  |
|                      |                             |           |                  |       |                   |                  |                     |                        |  |



Photo of Sample Plot North



Photo of Sample Plot East



| Project/Site: Flat Creek Solar Pr  | oject                 | City/County: Cana  | ajoharie, Montgomery Cou                            | unty Samplin   | g Date: 2021-Sept-14  |
|--|-----------------------|--|---|--|---|
| Applicant/Owner: SunEast   |                       |  | State: NY   | Sampling F   | Point: W-NSD-21_PEM-1   |
| Investigator(s): Nick DeJohn, E  | Brian Corrigan        |  | Section, Township                                   | , Range: NA  |   |
| Landform (hillslope, terrace, etc  | ): Depression         |  | Local relief (concave, con                          | vex, none): Concave  | Slope (%):(   |
| Subregion (LRR or MLRA):   | LRR L                 |  | Lat: 42.845036792                                   | 26 <b>Long:</b> -74.52595  | 88399 <b>Datum:</b> WG  |
| Soil Map Unit Name: Lansing  | and Mohawk silt loa   | ams, very steep  |   | NWI  | classification:   |
| Are climatic/hydrologic condition  | ns on the site typica | l for this time of yea   | ar? Yes 🟒 No  | (If no, explain ir   | n Remarks.)   |
| Are Vegetation, Soil,  | or Hydrology _        | significantly dis  | sturbed? Are "Norm                                  | al Circumstances" pre  | esent? Yes 🟒 No _   |
| Are Vegetation, Soil,  | or Hydrology _        | naturally proble   | ematic? (If needed,                                 | explain any answers  | in Remarks.)  |
| Hydrophytic Vegetation Presen Hydric Soil Present? Wetland Hydrology Present? Remarks: (Explain alternative p Covertype is PEM.  | rt? Yes<br>Yes<br>Yes | ✓ No<br>✓ No<br>✓ No   | Is the Sampled Area with                            | in a Wetland?  | features, etc.  Yes _✓_ No  W-NSD-21                                    |
| HYDROLOGY  Wetland Hydrology Indicators:  Primary Indicators (minimum o  Surface Water (A1)  High Water Table (A2)  Saturation (A3)  Water Marks (B1)  Sediment Deposits (B2)  Drift Deposits (B3) | <br><br><br>          | Water-Stained Lea<br>Aquatic Fauna (B1<br>Marl Deposits (B15<br>Hydrogen Sulfide ( | 3)<br>5)<br>Odor (C1)<br>Jeres on Living Roots (C3) | Surface Soil Crack Drainage Pattern Moss Trim Lines ( Dry-Season Wate Crayfish Burrows _/ Saturation Visible | s (B10)<br>(B16)<br>er Table (C2)<br>s (C8)<br>e on Aerial Imagery (C9) |
| Algal Mat or Crust (B4)  | _                     |  | tion in Tilled Soils (C6)                           | Stunted or Stress  |   |
| Iron Deposits (B5)   | _                     | _<br>_Thin Muck Surface  | e (C7)  | <u>✓</u> Geomorphic Posi   Shallow Aquitard  |   |
| Inundation Visible on Aerial   | J ,                   | Other (Explain in R  | Remarks)  | Microtopographi  |   |
| Sparsely Vegetated Concave   | e Surface (B8)        |  |   | ✓ FAC-Neutral Test   |   |
| Field Observations:  |                       |  |   | 1  |   |
| Surface Water Present?   | Yes No                | ∠ Depth  | (inches):   |  |   |
| Water Table Present?   | Yes No                |  | (inches):   | -<br>Wetland Hydrology F   | Present? Yes No   |
| Saturation Present?  | Yes _ ✓ No            |  | · -   | -  |   |
|  | 1⊆2 <u>^</u> IAO      | Depth  | (inches): 7   | -  |   |
| (includes capillary fringe)  |                       |  |   |  | <del></del>   |
| Describe Recorded Data (stream   | m gauge, monitoring   | g well, aerial photos  | s, previous inspections), if                        | available:   |   |
|  |                       |  |   |  |   |
|  |                       |  |   |  |   |
| Remarks:   |                       |  |   |  |   |
|  |                       |  |   |  |   |
|  |                       |  |   |  |   |
|  |                       |  |   |  |   |
|  |                       |  |   |  |   |
|  |                       |  |   |  |   |
|  |                       |  |   |  |   |
|  |                       |  |   |  |   |

| <u>Tree Stratum</u> (Plot size: <u>30 ft</u> )   |    | Dominant Species? | Indicator<br>Status | Dominance Test works Number of Dominant |                | 1            | (A)          |
|--|----|-------------------|---------------------|---|----------------|--------------|--------------|
| 1.   |    |                   |                     | Are OBL, FACW, or FAC                   | :              |              | (A)          |
| 2.   |    |                   |                     | Total Number of Dom                     | nant Species   | 4            | (D)          |
| 3.   |    |                   |                     | Across All Strata:                      |                | 1            | (B)          |
| 4.   |    |                   |                     | Percent of Dominant S                   | Species That   | 100          | (A /D)       |
| · <del></del>                                    |    |                   |                     | Are OBL, FACW, or FAC                   | :              | 100          | (A/B)        |
| 5  |    |                   |                     | Prevalence Index worl                   | sheet:         | ·            |              |
| 6  |    |                   |                     | Total % Cover                           | of:            | Multiply     | By:          |
| 7  |    |                   |                     | OBL species                             | 60             | x 1 =        | - <b>5</b> - |
|  | 0  | = Total Cov       | er                  | FACW species                            | 15             | x 2 =        | 30           |
| Sapling/Shrub Stratum (Plot size: <u>15 ft</u> ) |    |                   |                     | FAC species                             | 12             | x3=          | 36           |
| 1.   |    |                   |                     | ·                                       |                | _            |              |
| 2.   |    |                   |                     | FACU species                            | 10             | x 4 =        | 40           |
| 3.   |    |                   |                     | - UPL species                           | 0              | x 5 = _      | 0            |
| 4.   |    |                   |                     | - Column Totals                         | 97             | (A)          | 166 (B)      |
| 5.   |    |                   |                     | Prevalence I                            | ndex = B/A =   | 1.7          |              |
| -  |    |                   |                     | Hydrophytic Vegetatio                   | n Indicators:  |              |              |
| 6  |    |                   |                     | ✓ 1- Rapid Test for                     | Hvdrophytic V  | egetation    |              |
| 7  |    |                   |                     | 2 - Dominance Te                        |                | Ü            |              |
|  | 0  | = Total Cov       | er                  | ✓ 3 - Prevalence In                     |                |              |              |
| <u>Herb Stratum</u> (Plot size: <u>5 ft</u> )    |    |                   |                     | 4 - Morphologica                        |                | (Provide     | sunnorting   |
| 1. <i>Leersia oryzoides</i>                      | 60 | Yes               | OBL                 | data in Remarks or on                   |                |              | supporting   |
| 2. Impatiens capensis                            | 15 | No                | FACW                | Problematic Hyd                         | •              |              | nlain)       |
| 3. Eutrochium purpureum                          | 12 | No                | FAC                 | Indicators of hydric so                 | , , ,          | -            |              |
| 4. Solidago canadensis                           | 10 | No                | FACU                | present, unless disturl                 |                | -            | gy must be   |
| 5.   |    |                   | 17100               | -                                       |                | Hatic        |              |
| 6.   |    |                   |                     | Definitions of Vegetati                 |                |              |              |
|  |    |                   |                     | Tree – Woody plants 3                   |                |              | diameter at  |
| 7  |    |                   |                     | breast height (DBH), re                 |                |              |              |
| 8  |    |                   |                     | Sapling/shrub - Wood                    |                |              | OBH and      |
| 9  |    |                   |                     | greater than or equal                   |                |              |              |
| 10   |    |                   |                     | Herb – All herbaceous                   | -              |              | gardless of  |
| 11   |    |                   |                     | size, and woody plants                  |                |              |              |
| 12.  |    |                   |                     | Woody vines – All woo                   | dy vines great | ter than 3.  | 28 ft in     |
|  | 97 | = Total Cov       | er                  | height.                                 |                |              |              |
| Woody Vine Stratum (Plot size: 30 ft )           |    | -                 |                     | Hydrophytic Vegetation                  | on Present? \  | ∕es <u> </u> | lo           |
| 1.   |    |                   |                     |   |                |              |              |
| 2  |    |                   |                     | -                                       |                |              |              |
|  |    |                   |                     | •                                       |                |              |              |
|  |    |                   |                     | ·                                       |                |              |              |
| 3.   |    |                   |                     | i                                       |                |              |              |
| 3.<br>4.   |    | = Total Cov       |                     | -                                       |                |              |              |

| Profile Des  | cription: (Describe          | to the  | depth needed to   | docu  | ment the          | indicato         | r or confirm the a          | bsence of indicate | ors.)                                  |
|--------------|------------------------------|---------|-------------------|-------|-------------------|------------------|-----------------------------|--------------------|--|
| Depth        | Matrix                       |         | Redox             | (Fea  | tures             |                  |                             |                    |  |
| (inches)     | Color (moist)                | %       | Color (moist)     | %     | Type <sup>1</sup> | Loc2             | Text                        | ture               | Remarks                                |
| 0 - 11       | 10YR 3/1                     | 95      | 10YR 4/6          | 5     | С                 | M                | Silty Cla                   | y Loam             |  |
| 11 - 20      | 2.5Y 3/1                     | 95      | 10YR 2/1          | 5     | D                 | M/PL             | Silty Cla                   | y Loam             |  |
|              |                              |         |                   | _     |                   |                  |                             |                    |  |
|              | -                            |         |                   | _     |                   |                  | -                           |                    |  |
|              |                              |         |                   | _     |                   |                  |                             |                    |  |
|              |                              |         |                   | _     |                   |                  |                             |                    |  |
|              |                              | - —     |                   | _     |                   |                  |                             |                    |  |
|              |                              |         |                   | _     |                   |                  |                             |                    |  |
|              | -                            |         |                   | _     |                   |                  | -                           |                    |  |
|              | -                            |         |                   | _     |                   |                  | -                           |                    |  |
|              |                              |         |                   | _     |                   |                  |                             |                    |  |
|              |                              |         |                   | _     |                   |                  |                             |                    |  |
|              |                              |         |                   | _     |                   |                  |                             |                    |  |
| ¹Type: C = 0 | Concentration, D =           | Deplet  | ion, RM = Reduce  | d Ma  | trix, MS          | = Masked         | Sand Grains. <sup>2</sup> L | ocation: PL = Pore | e Lining, M = Matrix.                  |
| Hydric Soil  | Indicators:                  |         |                   |       |                   |                  |                             | Indicators for P   | roblematic Hydric Soils³:              |
| Histoso      | l (A1)                       |         | Polyvalue B       | elow  | Surface (         | (S8) <b>(LRR</b> | R, MLRA 149B)               | 2 cm Muck (        | (A10) (LRR K, L, MLRA 149B)            |
| Histic E     | pipedon (A2)                 |         | Thin Dark S       | urfac | e (S9) <b>(LR</b> | RR R, MLR        | A 149B)                     |                    | e Redox (A16) <b>(LRR K, L, R)</b>     |
|              | istic (A3)                   |         | Loamy Mucl        | -     | -                 |                  | L)                          | <del></del>        | Peat or Peat (S3) (LRR K, L, R)        |
| ,            | en Sulfide (A4)              |         | Loamy Gley        |       |                   |                  |                             | Dark Surfac        |  |
|              | ed Layers (A5)               |         | Depleted Ma       |       |                   |                  |                             | Polyvalue B        | elow Surface (S8) (LRR K, L)           |
|              | ed Below Dark Surf           | ace (A1 |                   |       |                   | 7)               |                             |                    | urface (S9) <b>(LRR K, L)</b>          |
|              | ark Surface (A12)            |         | Depleted Da       |       |                   | /)               |                             | Iron-Manga         | nese Masses (F12) (LRR K, L, R)        |
|              | Mucky Mineral (S1)           |         | Redox Depr        | essic | ms (F8)           |                  |                             | Piedmont Fl        | loodplain Soils (F19) (MLRA 149B)      |
| -            | Gleyed Matrix (S4)           |         |                   |       |                   |                  |                             | Mesic Spodi        | ic (TA6) <b>(MLRA 144A, 145, 149B)</b> |
| _            | Redox (S5)                   |         |                   |       |                   |                  |                             | Red Parent         | Material (F21)                         |
|              | d Matrix (S6)                |         |                   |       |                   |                  |                             | Very Shallov       | w Dark Surface (TF12)                  |
| Dark Su      | ırface (S7) <b>(LRR R, N</b> | /ILRA 1 | 49B)              |       |                   |                  |                             | Other (Expla       | ain in Remarks)                        |
| 3Indicators  | of hydrophytic veg           | etation | n and wetland hyd | Irolo | gy must l         | be preser        | nt, unless disturbe         | ed or problematic. |  |
| Restrictive  | Layer (if observed):         | ;       |                   |       |                   |                  |                             |                    |  |
|              | Type:                        |         | None              |       |                   | Hydric S         | Soil Present?               |                    | Yes/_ No                               |
|              | Depth (inches):              |         |                   |       |                   |                  |                             |                    |  |
| Remarks:     |                              |         |                   |       |                   |                  |                             |                    |  |
|              |                              |         |                   |       |                   |                  |                             |                    |  |
|              |                              |         |                   |       |                   |                  |                             |                    |  |
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|              |                              |         |                   |       |                   |                  |                             |                    |  |
|              |                              |         |                   |       |                   |                  |                             |                    |  |
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|              |                              |         |                   |       |                   |                  |                             |                    |  |
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|              |                              |         |                   |       |                   |                  |                             |                    |  |
|              |                              |         |                   |       |                   |                  |                             |                    |  |
|              |                              |         |                   |       |                   |                  |                             |                    |  |
|              |                              |         |                   |       |                   |                  |                             |                    |  |
|              |                              |         |                   |       |                   |                  |                             |                    |  |
|              |                              |         |                   |       |                   |                  |                             |                    |  |
|              |                              |         |                   |       |                   |                  |                             |                    |  |
|              |                              |         |                   |       |                   |                  |                             |                    |  |



Photo of Sample Plot North



Photo of Sample Plot East



| Project/Site: Flat Creek Solar Pro  | oject                   | City/County: Can          | ajoharie, Montgomery Cou                | nty Sampling Date: 2021-Sept-14               |               |  |  |  |
|---|-------------------------|---------------------------|---|---|---------------|--|--|--|
| Applicant/Owner: SunEast  |                         |                           | State: NY                               | Sampling Point: W-NSD-21_UPL-1                |               |  |  |  |
| Investigator(s): Nick DeJohn, B   | Brian Corrigan          |                           | Section, Township,                      | Range: NA                                     |               |  |  |  |
| Landform (hillslope, terrace, etc.  | .): Hillslop            | oe .                      | Local relief (concave, conv             | ex, none): Convex Slope (%):                  | 1 to 10       |  |  |  |
| Subregion (LRR or MLRA):  | LRR L                   |                           | Lat: 42.845158581                       | 7 <b>Long:</b> -74.5258901921 <b>Datum:</b> W |               |  |  |  |
| Soil Map Unit Name: Lansing   | and Mohawk s            | silt loams, very steep    |   | NWI classification:                           |               |  |  |  |
| Are climatic/hydrologic condition   |                         |                           | ar? Yes 🗸 No                            | (If no, explain in Remarks.)                  |               |  |  |  |
| Are Vegetation, Soil,   |                         | ogy significantly di      |   | al Circumstances" present? Yes 🟒 No _         |               |  |  |  |
| Are Vegetation, Soil,   |                         | ogy naturally prob        |   | explain any answers in Remarks.)              |               |  |  |  |
| ,,  | 5 <b></b>               |                           | (************************************** | ,   |               |  |  |  |
| SUBMANDY OF FINIDINGS   | A 1 ··                  | 1                         |   |   |               |  |  |  |
| SUMMARY OF FINDINGS – A   | Attach site m           | nap snowing sampli        | ng point locations, trai                | sects, important features, etc.               |               |  |  |  |
| Hydrophytic Vegetation Present  | t?                      | Yes No                    |   |   |               |  |  |  |
| Hydric Soil Present?  |                         | Yes No <b>_</b> ✓         | Is the Sampled Area withi               | n a Wetland? Yes No                           | ,             |  |  |  |
|   |                         | Yes No                    | i '                                     |   | _             |  |  |  |
| Wetland Hydrology Present?  |                         |                           | If yes, optional Wetland S              | te ib.  |               |  |  |  |
| Remarks: (Explain alternative pr  | ocedures here           | e or in a separate report | )                                       |   |               |  |  |  |
| Covertype is UPL.   |                         |                           |   |   |               |  |  |  |
| <br>  |                         |                           |   |   |               |  |  |  |
| İ   |                         |                           |   |   |               |  |  |  |
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|   |                         |                           |   |   |               |  |  |  |
| INDBOLOCY   |                         |                           |   |   |               |  |  |  |
| HYDROLOGY   |                         |                           |   |   |               |  |  |  |
| Watland Lludralam, Indicators   |                         |                           |   |   |               |  |  |  |
| Wetland Hydrology Indicators:   |                         |                           |   |   |               |  |  |  |
| Primary Indicators (minimum of  | <u>f one is require</u> | ed; check all that apply) |   | Secondary Indicators (minimum of two requi    | red)          |  |  |  |
| 6 6 14 (14)   |                         |                           | (50)                                    | Surface Soil Cracks (B6)                      |               |  |  |  |
| Surface Water (A1)  |                         | Water-Stained Lea         |   | Drainage Patterns (B10)                       |               |  |  |  |
| High Water Table (A2)   |                         | Aquatic Fauna (B1         |   | Moss Trim Lines (B16)                         |               |  |  |  |
| Saturation (A3)   |                         | Marl Deposits (B1         |   | Dry-Season Water Table (C2)                   |               |  |  |  |
| Water Marks (B1)  |                         | Hydrogen Sulfide          |   | Dry-season water rable (C2)                   |               |  |  |  |
| Sediment Deposits (B2)  |                         | Oxidized Rhizospl         | neres on Living Roots (C3)              | Saturation Visible on Aerial Imagery (C9)     |               |  |  |  |
| Drift Deposits (B3)   |                         | Presence of Redu          | ced Iron (C4)                           |   |               |  |  |  |
| Algal Mat or Crust (B4)   |                         | Recent Iron Redu          | ction in Tilled Soils (C6)              | Stunted or Stressed Plants (D1)               |               |  |  |  |
| Iron Deposits (B5)  |                         | Thin Muck Surface         | e (C7)                                  | Geomorphic Position (D2)                      |               |  |  |  |
| Inundation Visible on Aerial  | Imagery (R7)            | Other (Explain in         |   | Shallow Aquitard (D3)                         |               |  |  |  |
|   |                         | Other (Explain in         | (Ciriai K3)                             | Microtopographic Relief (D4)                  |               |  |  |  |
| Sparsely Vegetated Concave  | Surface (B8)            |                           |   | FAC-Neutral Test (D5)                         |               |  |  |  |
| Field Observations:   |                         |                           |   |   |               |  |  |  |
|   |                         |                           |   |   |               |  |  |  |
| Curface Water Dresent?  | Voc N                   | No Donth                  | (inches)                                |   |               |  |  |  |
| Surface Water Present?  | Yes 1                   |                           | (inches):                               |   |               |  |  |  |
| Surface Water Present?<br>Water Table Present?  | Yes 1<br>Yes 1          |                           | (inches):                               | . Wetland Hydrology Present? Yes              | No <b>_∠</b>  |  |  |  |
| Water Table Present?  | Yes 1                   | No Depth                  | (inches):                               | . Wetland Hydrology Present? Yes              | No <b>∠</b>   |  |  |  |
| Water Table Present?<br>Saturation Present?   |                         | No Depth                  |   | Wetland Hydrology Present?  Yes               | No 🟒          |  |  |  |
| Water Table Present? Saturation Present? (includes capillary fringe)                                | Yes 1<br>Yes 1          | No Depth                  | (inches):                               |   | No <u></u>    |  |  |  |
| Water Table Present?<br>Saturation Present?   | Yes 1<br>Yes 1          | No Depth                  | (inches):                               |   | No <b>_</b> ✓ |  |  |  |
| Water Table Present?<br>Saturation Present?<br>(includes capillary fringe)                          | Yes 1<br>Yes 1          | No Depth                  | (inches):                               |   | No <u></u> ✓  |  |  |  |
| Water Table Present?<br>Saturation Present?<br>(includes capillary fringe)                          | Yes 1<br>Yes 1          | No Depth                  | (inches):                               |   | No <u> </u>   |  |  |  |
| Water Table Present?<br>Saturation Present?<br>(includes capillary fringe)                          | Yes 1<br>Yes 1          | No Depth                  | (inches):                               |   | No <u></u>    |  |  |  |
| Water Table Present? Saturation Present? (includes capillary fringe) Describe Recorded Data (strean | Yes 1<br>Yes 1          | No Depth                  | (inches):                               |   | No 🏒          |  |  |  |
| Water Table Present?<br>Saturation Present?<br>(includes capillary fringe)                          | Yes 1<br>Yes 1          | No Depth                  | (inches):                               |   | No 🏒          |  |  |  |
| Water Table Present? Saturation Present? (includes capillary fringe) Describe Recorded Data (strean | Yes 1<br>Yes 1          | No Depth                  | (inches):                               |   | No            |  |  |  |
| Water Table Present? Saturation Present? (includes capillary fringe) Describe Recorded Data (strean | Yes 1<br>Yes 1          | No Depth                  | (inches):                               |   | No            |  |  |  |
| Water Table Present? Saturation Present? (includes capillary fringe) Describe Recorded Data (strean | Yes 1<br>Yes 1          | No Depth                  | (inches):                               |   | No            |  |  |  |
| Water Table Present? Saturation Present? (includes capillary fringe) Describe Recorded Data (strean | Yes 1<br>Yes 1          | No Depth                  | (inches):                               |   | No            |  |  |  |
| Water Table Present? Saturation Present? (includes capillary fringe) Describe Recorded Data (strean | Yes 1<br>Yes 1          | No Depth                  | (inches):                               |   | No            |  |  |  |
| Water Table Present? Saturation Present? (includes capillary fringe) Describe Recorded Data (strean | Yes 1<br>Yes 1          | No Depth                  | (inches):                               |   | No            |  |  |  |
| Water Table Present? Saturation Present? (includes capillary fringe) Describe Recorded Data (strean | Yes 1<br>Yes 1          | No Depth                  | (inches):                               |   | No            |  |  |  |

|   |         |             |        | l   |                            |                 |
|---|---------|-------------|--------|---|----------------------------|-----------------|
| Tree Stratum (Plot size:30 ft)                |         | Dominant    |        | Dominance Test worksheet:                           |                            |                 |
|   | % Cover | Species?    | Status | Number of Dominant Species That                     | 1                          | (A)             |
| 1   |         |             |        | Are OBL, FACW, or FAC:                              |                            |                 |
| 2   |         |             |        | Total Number of Dominant Species Across All Strata: | 3                          | (B)             |
| 3   |         |             |        | Percent of Dominant Species That                    |                            |                 |
| 4   |         |             |        | - Are OBL, FACW, or FAC:                            | 33.3                       | (A/B)           |
| 5   |         |             |        | Prevalence Index worksheet:                         |                            |                 |
| 6.  |         |             |        | Total % Cover of:                                   | Multiply                   | D               |
| 7.  |         |             |        | - OBL species 0                                     | <u>Multiply l</u><br>x 1 = | <u>ъу.</u><br>О |
|   | 0       | = Total Cov | er     | · -   | -                          |                 |
| Sapling/Shrub Stratum (Plot size:15 ft)       |         | -           |        | · —   | x 2 =                      | 40              |
| 1. <i>Lonicera morrowii</i>                   | 5       | Yes         | FACU   | FAC species 15                                      | x 3 =                      | 45              |
| 2.  |         |             |        | FACU species 55                                     | x 4 =                      | 220             |
| 3.  |         |             |        | - UPL species0                                      | x 5 =                      | 0               |
| 4.  |         |             |        | - Column Totals 90                                  | (A)                        | 305 (B)         |
| 5.  |         |             |        | Prevalence Index = B/A =                            | 3.4                        |                 |
| 6.  |         |             |        | Hydrophytic Vegetation Indicators:                  |                            |                 |
| 7.  |         |             |        | 1- Rapid Test for Hydrophytic                       | Vegetation                 |                 |
| /·  |         | - Total Cov | or     | 2 - Dominance Test is > 50%                         |                            |                 |
| Hards Streets on (Diet sines - 5 ft - )       | 5       | = Total Cov | er     | 3 - Prevalence Index is ≤ 3.01                      |                            |                 |
| Herb Stratum (Plot size: 5 ft )               | 40      | V           | FACIL  | 4 - Morphological Adaptation:                       |                            | supporting      |
| 1. Solidago canadensis                        | 40      | Yes         | FACU   | data in Remarks or on a separate s                  | heet)                      |                 |
| 2. Impatiens capensis                         |         | Yes         | FACW   | Problematic Hydrophytic Veg                         | etation¹ (Ex               | plain)          |
| 3. Euthamia graminifolia                      | 15      | No          | FAC    | Indicators of hydric soil and wetland               | nd hydrolog                | gy must be      |
| 4. Rosa multiflora                            |         | <u>No</u>   | FACU   | present, unless disturbed or proble                 | ematic                     |                 |
| 5   |         |             |        | Definitions of Vegetation Strata:                   |                            |                 |
| 6   |         |             |        | Tree – Woody plants 3 in. (7.6 cm) o                | or more in c               | liameter at     |
| 7   |         |             |        | breast height (DBH), regardless of                  | -                          |                 |
| 8   |         |             |        | Sapling/shrub – Woody plants less                   |                            | BH and          |
| 9   |         |             |        | greater than or equal to 3.28 ft (1 r               |                            |                 |
| 10  |         |             |        | Herb – All herbaceous (non-woody                    |                            | ardless of      |
| 11  |         |             |        | size, and woody plants less than 3.                 |                            |                 |
| 12  |         |             |        | Woody vines – All woody vines grea                  | ater than 3.               | 28 ft in        |
|   | 85      | = Total Cov | er     | height.   |                            |                 |
| Woody Vine Stratum (Plot size: <u>30 ft</u> ) |         | -           |        | Hydrophytic Vegetation Present?                     | Yes N                      | 0               |
| 1.  |         |             |        |   |                            |                 |
| 2.  |         |             |        | -   |                            |                 |
| 3.  |         |             |        |   |                            |                 |
| 4.  |         |             |        | -   |                            |                 |
|   |         | = Total Cov | er     | -   |                            |                 |
|   |         | -           |        |   |                            |                 |
|   | 0       | = Total Cov | er     |   |                            |                 |

|               | ription: (Describe          | to the de    |                  |           |                   | indicato          | r or confirm the a  | absence of indicators.)                                |
|---------------|-----------------------------|--------------|------------------|-----------|-------------------|-------------------|---------------------|--|
| Depth _       | Matrix                      |              | Redox            | Feat      | ures              |                   |                     |  |
| (inches)      | Color (moist)               | %            | Color (moist)    | %         | Type <sup>1</sup> | Loc <sup>2</sup>  | Texture             | e Remarks  |
| 0 - 14        | 10YR 3/3                    | 100          |                  |           |                   |                   | Silt Loan           | m  |
|               |                             |              |                  | _         |                   |                   |                     |  |
|               |                             |              |                  | _         |                   |                   | _                   |  |
|               |                             |              |                  | _         |                   |                   |                     |  |
|               |                             |              |                  | _         |                   |                   |                     |  |
| <del></del>   |                             |              |                  | _         |                   |                   | -                   |  |
|               |                             |              |                  | _         |                   |                   |                     |  |
|               |                             |              |                  | _         |                   |                   |                     |  |
| ļ             |                             |              |                  | _         |                   |                   |                     |  |
|               |                             |              |                  | _         |                   |                   |                     |  |
|               |                             |              |                  |           |                   |                   |                     |  |
|               |                             |              |                  |           |                   |                   |                     |  |
|               |                             |              |                  |           |                   |                   |                     |  |
| ¹Tvpe: C = C  | oncentration, D =           | <br>Depletio | n. RM = Reduced  | —<br>Mati | rix. MS =         | Masked            | Sand Grains. 2l     | Location: PL = Pore Lining, M = Matrix.                |
| Hydric Soil I |                             | Беріссів     | .,,              |           | ,                 | masnea            | 54.14 5.4.15.       | Indicators for Problematic Hydric Soils <sup>3</sup> : |
| Histosol      |                             |              | Polyvalue Bel    | ۰۷۷ د     | urface /S         | (8) <b>(I D</b> D | R MIRA 1/OR)        | •  |
|               | ipedon (A2)                 |              | Thin Dark Sur    |           |                   |                   |                     | 2 cm Muck (A10) (LRR K, L, MLRA 149B)                  |
| Black His     | •                           |              | Loamy Mucky      |           |                   |                   |                     | Coast Prairie Redox (A16) (LRR K, L, R)                |
|               | en Sulfide (A4)             |              | Loamy Gleyed     |           |                   | (LIXIX IX,        | L)                  | 5 cm Mucky Peat or Peat (S3) (LRR K, L, R)             |
|               | d Layers (A5)               |              | Depleted Mat     |           |                   |                   |                     | Dark Surface (S7) (LRR K, L)                           |
|               | d Below Dark Surfa          |              |                  |           |                   |                   |                     | Polyvalue Below Surface (S8) (LRR K, L)                |
|               | irk Surface (A12)           |              | Depleted Dar     |           |                   | )                 |                     | Thin Dark Surface (S9) (LRR K, L)                      |
|               | lucky Mineral (S1)          |              | Redox Depres     |           |                   |                   |                     | Iron-Manganese Masses (F12) (LRR K, L, R)              |
|               | leyed Matrix (S4)           |              |                  |           | ()                |                   |                     | Piedmont Floodplain Soils (F19) (MLRA 149B)            |
| -             | edox (S5)                   |              |                  |           |                   |                   |                     | Mesic Spodic (TA6) <b>(MLRA 144A, 145, 149B)</b>       |
| -             |                             |              |                  |           |                   |                   |                     | Red Parent Material (F21)                              |
|               | Matrix (S6)                 | 41 DA 4 4    | ND)              |           |                   |                   |                     | Very Shallow Dark Surface (TF12)                       |
| Dark Sui      | rface (S7) <b>(LRR R, N</b> | /ILKA 149    | 9B)              |           |                   |                   |                     | Other (Explain in Remarks)                             |
| 3Indicators   | of hydrophytic veg          | etation a    | and wetland hydr | olog      | y must b          | e preser          | nt, unless disturbe | ed or problematic.                                     |
| Restrictive L | ayer (if observed):         | :            |                  |           |                   |                   |                     |  |
|               | Type:                       |              | None             |           |                   | Hydric            | Soil Present?       | Yes No/_   |
|               | Depth (inches):             |              |                  |           |                   | 1                 |                     |  |
| Remarks:      | э ор от (е.тезу.            | ,            |                  |           |                   |                   |                     |  |
|               | riction due to root         | to           |                  |           |                   |                   |                     |  |
| Digging rest  | riction due to root         | ιs .         |                  |           |                   |                   |                     |  |
|               |                             |              |                  |           |                   |                   |                     |  |
|               |                             |              |                  |           |                   |                   |                     |  |
|               |                             |              |                  |           |                   |                   |                     |  |
|               |                             |              |                  |           |                   |                   |                     |  |
|               |                             |              |                  |           |                   |                   |                     |  |
|               |                             |              |                  |           |                   |                   |                     |  |
|               |                             |              |                  |           |                   |                   |                     |  |
|               |                             |              |                  |           |                   |                   |                     |  |
|               |                             |              |                  |           |                   |                   |                     |  |
|               |                             |              |                  |           |                   |                   |                     |  |
|               |                             |              |                  |           |                   |                   |                     |  |
|               |                             |              |                  |           |                   |                   |                     |  |
|               |                             |              |                  |           |                   |                   |                     |  |
|               |                             |              |                  |           |                   |                   |                     |  |
| 1             |                             |              |                  |           |                   |                   |                     |  |
| I             |                             |              |                  |           |                   |                   |                     |  |
|               |                             |              |                  |           |                   |                   |                     |  |
|               |                             |              |                  |           |                   |                   |                     |  |
|               |                             |              |                  |           |                   |                   |                     |  |



Photo of Sample Plot North



Photo of Sample Plot South



Photo of Sample Plot West



| Project/Site: Flat Creek Solar Pro  | oject                | City/County: Can      | ajoharie, Montgomery Cou              | unty  | Sampling Date: 202        | 21-Sept-14         |  |
|-------------------------------------|----------------------|-----------------------|---------------------------------------|---|---------------------------|--------------------|--|
| Applicant/Owner: SunEast            |                      |                       | State: NY                             | <u>'                                     </u> | Sampling Point: W-NS      | nt: W-NSD-23_PEM-1 |  |
| Investigator(s): Nick DeJohn, B     | rian Corrigan        |                       | Section, Township                     | , Range: NA                                   | ٩                         |                    |  |
| Landform (hillslope, terrace, etc.) | ): Depression        |                       | Local relief (concave, con-           | vex, none):_                                  | Concave                   | Slope (%): 0 to 1  |  |
| Subregion (LRR or MLRA): L          | RR L                 |                       | Lat: 42.84558865                      | 71 Long:_                                     | -74.5202603192            | Datum: WGS84       |  |
| Soil Map Unit Name: Darien s        | ilt loam, 3 to 8 per | cent slopes           |                                       |   | NWI classification        | n:                 |  |
| Are climatic/hydrologic conditior   |                      | -                     |                                       | o (If no                                      | , explain in Remarks.)    |                    |  |
| Are Vegetation, Soil,               |                      | significantly dis     |                                       |   | •                         | Yes No             |  |
| Are Vegetation, Soil,               | or Hydrology _       | naturally probl       | ematic? (If needed                    | , explain an                                  | y answers in Remarks.     | )                  |  |
|                                     |                      |                       |                                       |   |                           |                    |  |
| SUMMARY OF FINDINGS - A             | Attach site map      | showing sampli        | ng point locations, tra               | nsects, im                                    | portant features, e       | etc.               |  |
| Hydrophytic Vegetation Present      | ? Yes                | ✓_ No                 |                                       |   |                           |                    |  |
| Hydric Soil Present?                |                      | ✓ No                  | Is the Sampled Area with              | in a Wetlani                                  | d? Ves                    | No                 |  |
|                                     |                      |                       | ¦ '                                   |   |                           |                    |  |
| Wetland Hydrology Present?          |                      | <u> </u>              | If yes, optional Wetland S            | Site ID:                                      | W-N                       | SD-23              |  |
| Remarks: (Explain alternative pr    | ocedures here or i   | n a separate report   | )                                     |   |                           |                    |  |
| Covertype is PEM.                   |                      |                       |                                       |   |                           |                    |  |
|                                     |                      |                       |                                       |   |                           |                    |  |
|                                     |                      |                       |                                       |   |                           |                    |  |
|                                     |                      |                       |                                       |   |                           |                    |  |
|                                     |                      |                       |                                       |   |                           |                    |  |
|                                     |                      |                       |                                       |   |                           |                    |  |
|                                     |                      |                       |                                       |   |                           |                    |  |
|                                     |                      |                       |                                       |   |                           |                    |  |
|                                     |                      |                       |                                       |   |                           |                    |  |
|                                     |                      |                       |                                       |   |                           |                    |  |
|                                     |                      |                       |                                       |   |                           |                    |  |
|                                     |                      |                       |                                       |   |                           |                    |  |
| HYDROLOGY                           |                      |                       |                                       |   |                           |                    |  |
| TIDROLOGI                           |                      |                       |                                       |   |                           |                    |  |
| Wetland Hydrology Indicators:       |                      |                       |                                       |   |                           |                    |  |
|                                     |                      |                       |                                       |   |                           | e                  |  |
| Primary Indicators (minimum of      | one is required; cl  | heck all that apply)  |                                       | Secondary                                     | / Indicators (minimum     | of two required)   |  |
| Curface Water (A1)                  |                      | Water Stained Lea     | y (CO)                                | Surface                                       | e Soil Cracks (B6)        |                    |  |
| Surface Water (A1)                  |                      | _ Water-Stained Lea   |                                       | Draina  | ge Patterns (B10)         |                    |  |
| ✓ High Water Table (A2)             |                      | _ Aquatic Fauna (B1   |                                       | Moss T  | rim Lines (B16)           |                    |  |
| ✓ Saturation (A3)                   |                      | _ Marl Deposits (B1   |                                       | Dry-Se  | ason Water Table (C2)     |                    |  |
| Water Marks (B1)                    | _                    | _ Hydrogen Sulfide    |                                       | Crayfis                                       | sh Burrows (C8)           |                    |  |
| Sediment Deposits (B2)              |                      |                       | neres on Living Roots (C3)            | -   | tion Visible on Aerial Ir | magery (C9)        |  |
| Drift Deposits (B3)                 | _                    | _ Presence of Redu    | ced Iron (C4)                         |   | d or Stressed Plants (D   | •                  |  |
| Algal Mat or Crust (B4)             | _                    | _ Recent Iron Reduc   | ction in Tilled Soils (C6)            |   | orphic Position (D2)      | · · · /            |  |
| Iron Deposits (B5)                  | _                    | _ Thin Muck Surface   | e (C7)                                |   | w Aquitard (D3)           |                    |  |
| Inundation Visible on Aerial        | Imagery (B7)         | _ Other (Explain in F | Remarks)                              |   |                           |                    |  |
| Sparsely Vegetated Concave          | Surface (B8)         |                       |                                       |   | opographic Relief (D4)    |                    |  |
|                                     | . ,                  |                       |                                       | FAC-Ne  | eutral Test (D5)          |                    |  |
| Field Observations:                 |                      |                       |                                       |   |                           |                    |  |
| Surface Water Present?              | Yes No _             | ✓ Depth               | (inches):                             | _   |                           |                    |  |
| Water Table Present?                | Yes 🟒 No _           | Depth                 | (inches): 12                          | Wetland H                                     | lydrology Present?        | Yes No             |  |
| Saturation Present?                 | Yes _✓_ No           | Depth                 | (inches): 4                           |   |                           |                    |  |
| (includes capillary fringe)         |                      |                       | · · · · · · · · · · · · · · · · · · · | -   |                           |                    |  |
|                                     |                      |                       |                                       |   |                           | <del>_</del>       |  |
| Describe Recorded Data (strean      | n gauge, monitorin   | g well, aerial photo: | s, previous inspections), if          | available:                                    |                           |                    |  |
|                                     |                      |                       |                                       |   |                           |                    |  |
|                                     |                      |                       |                                       |   |                           |                    |  |
|                                     |                      |                       |                                       |   |                           |                    |  |
| Remarks:                            |                      |                       |                                       |   |                           |                    |  |
| Kemarks.                            |                      |                       |                                       |   |                           |                    |  |
|                                     |                      |                       |                                       |   |                           |                    |  |
|                                     |                      |                       |                                       |   |                           |                    |  |
|                                     |                      |                       |                                       |   |                           |                    |  |
|                                     |                      |                       |                                       |   |                           |                    |  |
|                                     |                      |                       |                                       |   |                           |                    |  |
|                                     |                      |                       |                                       |   |                           |                    |  |
|                                     |                      |                       |                                       |   |                           |                    |  |
|                                     |                      |                       |                                       |   |                           |                    |  |
|                                     |                      |                       |                                       |   |                           |                    |  |

| <u> </u>                                       |         |             |           |  |                            |                     |
|--|---------|-------------|-----------|--|----------------------------|---------------------|
| <u>Tree Stratum</u> (Plot size: <u>30 ft</u> ) |         |             | Indicator | Dominance Test worksheet:                          |                            |                     |
| ·  | % Cover | Species?    | Status    | Number of Dominant Species Tha                     | t 2                        | (A)                 |
| 1  |         |             |           | Are OBL, FACW, or FAC:                             |                            |                     |
| 2  |         |             |           | Total Number of Dominant Specie Across All Strata: | s 2                        | (B)                 |
| 3  |         |             |           | Percent of Dominant Species That                   |                            |                     |
| 4  |         |             |           | - Are OBL, FACW, or FAC:                           | 100                        | (A/B)               |
| 5  |         |             |           | Prevalence Index worksheet:                        | -                          |                     |
| 6  |         |             |           | - Total % Cover of:                                | Multiply                   | Dv.e.               |
| 7.   |         |             |           | - OBL species 5                                    | <u>Multiply I</u><br>x 1 = | <del>эу.</del><br>5 |
|  | 0       | = Total Cov | /er       | · —  |                            |                     |
| Sapling/Shrub Stratum (Plot size:15 ft)        |         | -           |           | · -  | _ x 2 = _                  | 190                 |
| 1.   |         |             |           | FAC species 0                                      | _ x3= _                    | 0                   |
| 2.   |         |             |           | - FACU species 0                                   | _ x 4 = _                  | 0                   |
| 3.   |         |             |           | - UPL species 0                                    | _ x 5 = _                  | 0                   |
| 4.   |         |             |           | - Column Totals 100                                | (A)                        | 195 (B)             |
| 5.   |         |             |           | Prevalence Index = B/A                             | =2                         |                     |
| 6.   |         |             |           | Hydrophytic Vegetation Indicators                  | :                          |                     |
| 7.   |         |             |           | 1- Rapid Test for Hydrophytic                      | Vegetation                 |                     |
| <i>.</i>                                       |         | = Total Cov |           | 2 - Dominance Test is >50%                         |                            |                     |
| Hards Christians (Diet sieser E. ft. )         |         | - 10tal C01 | /ei       | 3 - Prevalence Index is ≤ 3.0                      |                            |                     |
| Herb Stratum (Plot size: 5 ft )                | 60      | \/a-a       | EA CIAI   | 4 - Morphological Adaptation                       |                            | supporting          |
| 1. Phalaris arundinacea                        | 60      | Yes         | FACW      | data in Remarks or on a separate                   | sheet)                     |                     |
| 2. Symphyotrichum novi-belgii                  | 30      | Yes         | FACW      | Problematic Hydrophytic Veg                        | getation¹ (Ex              | plain)              |
| 3. Scirpus cyperinus                           | 5       | No          | OBL       | <sup>1</sup> Indicators of hydric soil and wetla   | nd hydrolog                | gy must be          |
| 4. Onoclea sensibilis                          | 5       | <u>No</u>   | FACW      | present, unless disturbed or prob                  | ematic                     |                     |
| 5  |         |             |           | Definitions of Vegetation Strata:                  |                            |                     |
| 6  |         |             |           | Tree – Woody plants 3 in. (7.6 cm)                 | or more in c               | liameter at         |
| 7  |         |             |           | breast height (DBH), regardless of                 | -                          |                     |
| 8.   |         |             |           | Sapling/shrub – Woody plants less                  |                            | BH and              |
| 9  |         |             |           | greater than or equal to 3.28 ft (1                |                            |                     |
| 10   |         |             |           | Herb – All herbaceous (non-wood                    |                            | ardless of          |
| 11   |         |             |           | size, and woody plants less than 3                 |                            |                     |
| 12   |         |             |           | Woody vines – All woody vines gre                  | ater than 3.               | 28 ft in            |
|  | 100     | = Total Cov | /er       | height.  |                            |                     |
| Woody Vine Stratum (Plot size:30 ft)           |         | -           |           | Hydrophytic Vegetation Present?                    | Yes 🟒 N                    | 0                   |
| 1.   |         |             |           |  |                            |                     |
| 2.   |         |             |           |  |                            |                     |
| 3.   |         |             |           | -  |                            |                     |
|  |         |             |           | -  |                            |                     |
| 4.   |         |             |           | =  |                            |                     |
| 4.   |         | = Total Cov | /er       |  |                            |                     |

| Profile Desc   | cription: (Describe t | o the   | depth needed to d | docun  | nent the i        | ndicato        | r or confirm the    | absence of i | indicators.)                                 |
|----------------|-----------------------|---------|-------------------|--------|-------------------|----------------|---------------------|--------------|--|
| Depth          | Matrix                |         | Redox             | Feat   | ures              |                |                     |              |  |
| (inches)       | Color (moist)         | %       | Color (moist)     | %      | Type <sup>1</sup> | Loc2           | Texture             | e            | Remarks                                      |
| 0 - 20         | 10YR 3/1              | 90      | 7.5YR 4/6         | 10     | C                 | M              | Clay Loa            | am           |  |
|                |                       |         |                   |        |                   |                |                     |              |  |
|                |                       |         |                   |        |                   |                |                     |              |  |
|                |                       |         |                   | _      |                   |                |                     |              |  |
|                |                       | -       |                   |        |                   |                |                     |              |  |
|                |                       | -       |                   |        |                   |                |                     |              |  |
|                |                       |         |                   |        |                   |                |                     |              |  |
|                |                       | . —     |                   |        |                   |                |                     |              |  |
|                |                       |         |                   |        |                   |                |                     |              |  |
|                |                       | . —     |                   |        |                   |                |                     |              |  |
|                |                       |         |                   |        |                   |                |                     |              |  |
|                |                       |         |                   |        |                   |                |                     |              |  |
|                |                       |         |                   |        |                   |                |                     |              |  |
| ¹Type: C = C   | Concentration, D = [  | Deplet  | ion, RM = Reduce  | d Mat  | rix, MS =         | Masked         | Sand Grains. 2      | Location: PL | = Pore Lining, M = Matrix.                   |
| Hydric Soil    | Indicators:           |         |                   |        |                   |                |                     | Indicator    | rs for Problematic Hydric Soils³:            |
| Histoso        | (A1)                  |         | Polyvalue Be      | elow S | urface (S         | 8) <b>(LRR</b> | R, MLRA 149B)       | 2 cm         | Muck (A10) (LRR K, L, MLRA 149B)             |
| Histic Ep      | oipedon (A2)          |         | Thin Dark Su      | ırface | (S9) (LRR         | R, MLR         | A 149B)             |              | t Prairie Redox (A16) (LRR K, L, R)          |
| Black Hi       | stic (A3)             |         | Loamy Mucl        | y Mir  | eral (F1)         | (LRR K, I      | L)                  |              | Mucky Peat or Peat (S3) (LRR K, L, R)        |
| Hydroge        | en Sulfide (A4)       |         | Loamy Gleye       |        |                   |                |                     |              | Surface (S7) (LRR K, L)                      |
|                | d Layers (A5)         |         | Depleted Ma       |        |                   |                |                     |              | value Below Surface (S8) (LRR K, L)          |
|                | d Below Dark Surfa    | ice (A1 |                   |        |                   |                |                     |              | Dark Surface (S9) (LRR K, L)                 |
|                | ark Surface (A12)     |         | Depleted Da       |        |                   |                |                     |              | Manganese Masses (F12) (LRR K, L, R)         |
|                | lucky Mineral (S1)    |         | Redox Depr        | essior | ıs (F8)           |                |                     |              | mont Floodplain Soils (F19) (MLRA 149B)      |
| -              | Gleyed Matrix (S4)    |         |                   |        |                   |                |                     |              | c Spodic (TA6) <b>(MLRA 144A, 145, 149B)</b> |
| -              | ledox (S5)            |         |                   |        |                   |                |                     |              | Parent Material (F21)                        |
| Stripped       | d Matrix (S6)         |         |                   |        |                   |                |                     |              | Shallow Dark Surface (TF12)                  |
| Dark Su        | rface (S7) (LRR R, M  | ILRA 1  | 49B)              |        |                   |                |                     | -            | r (Explain in Remarks)                       |
| 3Indicators    | of hydrophytic vege   | etation | and wetland hyd   | rolog  | v must he         | nreser         | nt unless disturh   |              |  |
| -              | Layer (if observed):  | ctatioi | runa wedana nya   | 10108  | y mast b          | preser         | it, ariicss distarb | ca or probit | ernatic.                                     |
| ixestrictive i | Type:                 |         | None              |        |                   | Hydric         | Soil Present?       |              | Yes No                                       |
|                |                       |         | None              |        |                   | Hydric         | 3011 Fresents       |              | res  |
|                | Depth (inches):       |         |                   |        |                   | l .            |                     |              | -  |
| Remarks:       |                       |         |                   |        |                   |                |                     |              |  |
|                |                       |         |                   |        |                   |                |                     |              |  |
|                |                       |         |                   |        |                   |                |                     |              |  |
|                |                       |         |                   |        |                   |                |                     |              |  |
|                |                       |         |                   |        |                   |                |                     |              |  |
|                |                       |         |                   |        |                   |                |                     |              |  |
|                |                       |         |                   |        |                   |                |                     |              |  |
|                |                       |         |                   |        |                   |                |                     |              |  |
|                |                       |         |                   |        |                   |                |                     |              |  |
|                |                       |         |                   |        |                   |                |                     |              |  |
|                |                       |         |                   |        |                   |                |                     |              |  |
|                |                       |         |                   |        |                   |                |                     |              |  |
|                |                       |         |                   |        |                   |                |                     |              |  |
|                |                       |         |                   |        |                   |                |                     |              |  |
|                |                       |         |                   |        |                   |                |                     |              |  |
|                |                       |         |                   |        |                   |                |                     |              |  |
|                |                       |         |                   |        |                   |                |                     |              |  |
|                |                       |         |                   |        |                   |                |                     |              |  |
|                |                       |         |                   |        |                   |                |                     |              |  |
|                |                       |         |                   |        |                   |                |                     |              |  |
|                |                       |         |                   |        |                   |                |                     |              |  |



Photo of Sample Plot North



Photo of Sample Plot East



Photo of Sample Plot West



| Project/Site: Flat Creek Solar Pr   | oject City  | /County: Canajoharie, Mor  | ntgomery County             | Sampling Date: 202   | :1-Sept-14        |
|---|---|--|-----------------------------|--|-------------------|
| Applicant/Owner: SunEast  |   |  | State: NY                   | Sampling Point: W-NS   | D-23_PSS-3        |
| Investigator(s): Nick DeJohn,   | Abi Light   | Section  | on, Township, Rang          | ge: NA   |                   |
| Landform (hillslope, terrace, etc   | .): Depression  | Local relief (   | concave, convex, n          | one): Concave  | Slope (%): 0 to 1 |
| Subregion (LRR or MLRA):  | LRR L   | Lat: 4   | 12.8456291836 L             | ong: -74.5209744573  | Datum: WGS84      |
| Soil Map Unit Name: Darien  | silt loam, 3 to 8 percent s   | lopes  |                             | NWI classification   | n:                |
| Are climatic/hydrologic conditio  | ns on the site typical for  | this time of year?   | Yes No                      | (If no, explain in Remarks.)   |                   |
| Are Vegetation, Soil,   | or Hydrologys   | ignificantly disturbed?  | Are "Normal Circ            | cumstances" present?   | Yes No            |
| Are Vegetation, Soil,   | or Hydrology r  | naturally problematic?   | (If needed, expla           | ain any answers in Remarks.  | )                 |
|   |   |  |                             |  |                   |
| SUMMARY OF FINDINGS -   | Attach site map show  | ving sampling point lo   | ations, transect            | ts, important features, e  | etc.              |
| Hydrophytic Vegetation Presen   |   |  |                             | •  |                   |
| , , ,   |   | ì  | A                           | (-4)   | c. No             |
| Hydric Soil Present?  | Yes 🟒 N   | · · · · · · · · · · · · · · · · · · ·  | ed Area within a W          |  | _ <b>∠</b> _ No   |
| Wetland Hydrology Present?  | Yes <b>∠</b> _ N  | o If yes, option   | nal Wetland Site ID         | : <u>W-N</u>   | SD-23             |
| Remarks: (Explain alternative p   | rocedures here or in a se   | parate report)   |                             |  | ·                 |
|   |   |  |                             |  |                   |
| Wetland Hydrology Indicators: Primary Indicators (minimum of a surface Water (A1)  High Water Table (A2)  Saturation (A3)  Water Marks (B1)  Sediment Deposits (B2)  Drift Deposits (B3)  Algal Mat or Crust (B4)  Iron Deposits (B5)  Inundation Visible on Aerial  Sparsely Vegetated Concave | Wat<br>Aqu<br>Mar<br>Hyd<br>Oxid<br>Pres<br>Reco<br>Thir<br>Imagery (B7) Othe | er-Stained Leaves (B9) atic Fauna (B13) I Deposits (B15) rogen Sulfide Odor (C1) dized Rhizospheres on Livir sence of Reduced Iron (C4) ent Iron Reduction in Tilled Muck Surface (C7) er (Explain in Remarks) | S g Roots (C3)S Soils (C6)S | endary Indicators (minimum<br>furface Soil Cracks (B6)<br>Drainage Patterns (B10)<br>Moss Trim Lines (B16)<br>Dry-Season Water Table (C2)<br>Grayfish Burrows (C8)<br>Maturation Visible on Aerial In<br>Stunted or Stressed Plants (D<br>Geomorphic Position (D2)<br>Microtopographic Relief (D4)<br>Microtopographic Relief (D4) | nagery (C9)       |
| Field Observations:   | Van Na (  | Danth (in ab ac)   |                             |  |                   |
| Surface Water Present?  | Yes No  | Depth (inches):  |                             |  |                   |
| Water Table Present?  | Yes No  | Depth (inches):  | 11Wetl                      | land Hydrology Present?  | Yes No            |
| Saturation Present?   | Yes No  | Depth (inches):  | 6                           |  |                   |
| (includes capillary fringe)   |   |  |                             |  |                   |
| Describe Recorded Data (stream  | m gauge, monitoring wel   | l. aerial photos, previous in  | spections), if availa       | ble:   |                   |
| Remarks:  |   |  |                             |  |                   |
|   |   |  |                             |  |                   |

| <u>Free Stratum</u> (Plot size: <u>30 ft</u> ) |             | Dominant<br>Species? | Indicator<br>Status | Number of Dominant  Are OBL, FACW, or FA | Species That   | 4            | (A)           |
|--|-------------|----------------------|---------------------|--|----------------|--------------|---------------|
| ·  |             |                      |                     | Total Number of Dom  Across All Strata:  |                | 4            | (B)           |
| s.   |             |                      |                     | Percent of Dominant Are OBL, FACW, or FA |                | 100          | (A/B)         |
| j  |             |                      |                     | Prevalence Index wor                     |                |              |               |
| j  |             |                      |                     | Total % Cove                             | er of:         | Multiply I   | <u>Ву:</u>    |
| ·  |             |                      |                     | - OBL species                            | 0              | x 1 =        | 0             |
|  | 0           | = Total Cov          | er                  | FACW species                             | 115            | x 2 =        | 230           |
| apling/Shrub Stratum (Plot size: 15 ft )       |             |                      |                     | FAC species                              | 35             | x 3 =        | 105           |
| . Cornus alba                                  | 30          | Yes                  | FACW                | - FACU species                           | 0              | x 4 =        | 0             |
| . Cornus racemosa                              |             | Yes                  | FAC                 | - UPL species                            | 0              | x 5 =        | 0             |
| B  |             |                      |                     | - Column Totals                          | 150            | (A)          | 335 (B)       |
| l  |             |                      |                     | - Prevalence                             | Index = B/A =  | 2.2          |               |
| j  |             |                      |                     |  |                |              |               |
| 5.   |             |                      |                     | Hydrophytic Vegetation                   |                | logotation   |               |
| 7  |             |                      |                     | 1- Rapid Test for 2 - 2 - Dominance T    |                | egetation    |               |
|  | 50          | = Total Cov          | er                  | ✓ 2 - Dominance in                       |                |              |               |
| lerb Stratum (Plot size: <u>5 ft</u> )         |             |                      |                     |  |                | (Dravida d   | unnortina     |
| . Phalaris arundinacea                         | 50          | Yes                  | FACW                | 4 - Morphologic                          |                |              | supporting    |
| 2. Impatiens capensis                          | 20          | Yes                  | FACW                | - Problematic Hyd                        | •              | -            | nlain)        |
| 3. Apocynum cannabinum                         | 15          | No                   | FAC                 | - Indicators of hydric s                 |                |              |               |
| 1. Symphyotrichum novi-belgii                  | 10          | No                   | FACW                | _ present, unless distur                 |                | , .          | y must be     |
| 5. Onoclea sensibilis                          |             | No                   | FACW                | Definitions of Vegetat                   |                | Tidele       |               |
| -  |             |                      |                     | Tree – Woody plants 3                    |                | more in c    | liamotor at   |
|  |             |                      |                     | breast height (DBH), r                   |                |              | ilallietei ai |
|  |             |                      |                     | Sapling/shrub - Wood                     | -              | _            | BH and        |
|  |             |                      |                     | greater than or equal                    |                |              | Dirana        |
|  |             |                      |                     | Herb – All herbaceous                    |                |              | ardless of    |
| 0  |             |                      |                     | size, and woody plant                    |                |              | ,             |
| 1  | <del></del> |                      |                     | Woody vines – All wo                     |                |              | 28 ft in      |
| 2  |             |                      |                     | height.                                  | , 0            |              |               |
| Noody Vine Stratum (Plot size: <u>30 ft</u> )  | 100         | = Total Cov          | er                  | Hydrophytic Vegetat                      | ion Present? \ | ∕es <u> </u> | 0             |
| ·  |             | <del></del> -        |                     | -  |                |              |               |
|  |             |                      |                     | -  |                |              |               |
|  |             |                      |                     | -  |                |              |               |
| 1  |             | - Total Carr         |                     | -  |                |              |               |
|  |             | = Total Cov          | er                  |  |                |              |               |

| Profile Des  | cription: (Describe          | to the     | depth needed to d      | docun   | nent the          | indicato         | r or confirm the   | absence of i | ndicators.)  |
|--------------|------------------------------|------------|------------------------|---------|-------------------|------------------|--------------------|--------------|--|
| Depth        | Matrix                       |            | Redox                  | Feat    | ures              |                  |                    |              |  |
| (inches)     | Color (moist)                | %          | Color (moist)          | %       | Type <sup>1</sup> | Loc <sup>2</sup> | Texture            | e            | Remarks  |
| 0 - 16       | 10YR 3/2                     | 95         | 10YR 5/6               | 5       | C                 | М                | Clay Loa           | am           |  |
| 16 - 20      | 10YR 4/2                     | 90         | 10YR 6/8               | 10      | C                 | M                | Clay Loa           |              |  |
|              |                              |            |                        | _       |                   |                  |                    |              |  |
|              |                              | _          |                        |         |                   |                  |                    |              |  |
|              |                              | -          |                        |         |                   |                  | -                  |              |  |
|              |                              |            |                        |         |                   |                  |                    |              |  |
|              |                              |            |                        |         |                   |                  | -                  |              |  |
|              |                              |            |                        |         |                   |                  |                    |              |  |
|              |                              | - —        |                        |         |                   |                  |                    |              |  |
|              |                              |            |                        |         |                   |                  |                    |              |  |
|              |                              |            |                        |         |                   |                  |                    |              |  |
|              |                              |            |                        |         |                   |                  |                    |              |  |
|              |                              |            |                        |         |                   |                  |                    |              |  |
| ¹Type: C = 0 | Concentration, D =           | <br>Deplet | ion, RM = Reduce       | d Mat   | rix, MS =         | Masked           | Sand Grains. 2     | Location: PL | = Pore Lining, M = Matrix.   |
| Hydric Soil  | Indicators:                  |            |                        |         |                   |                  |                    | Indicator    | s for Problematic Hydric Soils³:   |
| Histoso      |                              |            | Polyvalue Be           | elow S  | Surface (S        | 8) <b>(LRR</b>   | R, MLRA 149B)      |              | •  |
|              | oipedon (A2)                 |            | Thin Dark Su           |         |                   |                  |                    |              | Muck (A10) (LRR K, L, MLRA 149B)   |
|              | istic (A3)                   |            | Loamy Muck             |         |                   |                  |                    |              | : Prairie Redox (A16) (LRR K, L, R)  |
| Hydroge      | en Sulfide (A4)              |            | Loamy Gleye            | -       |                   |                  |                    |              | Mucky Peat or Peat (S3) (LRR K, L, R)  |
| Stratifie    | d Layers (A5)                |            | Depleted Ma            | atrix ( | F3)               |                  |                    |              | Surface (S7) (LRR K, L)  |
| Deplete      | d Below Dark Surfa           | ace (A1    | 1) <u>✓</u> Redox Dark | Surfa   | ce (F6)           |                  |                    |              | alue Below Surface (S8) <b>(LRR K, L)</b><br>Dark Surface (S9) <b>(LRR K, L)</b> |
| Thick Da     | ark Surface (A12)            |            | Depleted Da            | rk Su   | rface (F7         | )                |                    |              | Manganese Masses (F12) (LRR K, L, R)   |
| Sandy N      | Mucky Mineral (S1)           |            | Redox Depr             | essior  | ns (F8)           |                  |                    |              | nont Floodplain Soils (F19) (MLRA 149B)  |
| Sandy C      | Gleyed Matrix (S4)           |            |                        |         |                   |                  |                    |              | : Spodic (TA6) (MLRA 144A, 145, 149B)  |
| Sandy F      | Redox (S5)                   |            |                        |         |                   |                  |                    |              | Parent Material (F21)  |
| Strippe      | d Matrix (S6)                |            |                        |         |                   |                  |                    |              | Shallow Dark Surface (TF12)  |
| Dark Su      | ırface (S7) <b>(LRR R, M</b> | ILRA 1     | 49B)                   |         |                   |                  |                    | -            | r (Explain in Remarks)   |
|              |                              |            |                        |         |                   |                  |                    |              | •  |
| -            | of hydrophytic veg           |            | n and wetland hyd      | rolog   | y must b          | e preser         | nt, unless disturb | ed or proble | ematic.  |
|              | Layer (if observed):         |            |                        |         |                   |                  |                    |              |  |
|              | Type:                        |            | None                   |         |                   | Hydric           | Soil Present?      |              | Yes No   |
|              | Depth (inches):              |            |                        |         |                   |                  |                    |              |  |
| Remarks:     |                              |            |                        |         |                   |                  |                    |              |  |
|              |                              |            |                        |         |                   |                  |                    |              |  |
|              |                              |            |                        |         |                   |                  |                    |              |  |
|              |                              |            |                        |         |                   |                  |                    |              |  |
|              |                              |            |                        |         |                   |                  |                    |              |  |
|              |                              |            |                        |         |                   |                  |                    |              |  |
|              |                              |            |                        |         |                   |                  |                    |              |  |
|              |                              |            |                        |         |                   |                  |                    |              |  |
|              |                              |            |                        |         |                   |                  |                    |              |  |
|              |                              |            |                        |         |                   |                  |                    |              |  |
|              |                              |            |                        |         |                   |                  |                    |              |  |
|              |                              |            |                        |         |                   |                  |                    |              |  |
|              |                              |            |                        |         |                   |                  |                    |              |  |
|              |                              |            |                        |         |                   |                  |                    |              |  |
|              |                              |            |                        |         |                   |                  |                    |              |  |
|              |                              |            |                        |         |                   |                  |                    |              |  |
|              |                              |            |                        |         |                   |                  |                    |              |  |
|              |                              |            |                        |         |                   |                  |                    |              |  |
|              |                              |            |                        |         |                   |                  |                    |              |  |
|              |                              |            |                        |         |                   |                  |                    |              |  |
|              |                              |            |                        |         |                   |                  |                    |              |  |



Photo of Sample Plot East



Photo of Sample Plot South



Photo of Sample Plot West



| Project/Site: Flat Creek Solar Pr  | oject               | City/County: Can  | ajoharie, Montgomery Co  | unty Sampling Date   | e: 2021-Sept-14                          |  |  |
|--|---------------------|---|--|--|--|--|--|
| Applicant/Owner: SunEast   |                     |   | State: NY  | Sampling Point:  | W-NSD-23_PUB-2                           |  |  |
| Investigator(s): Nick DeJohn,  | 3rian Corrigan      |   | Section, Township  | , Range: NA  |  |  |  |
| Landform (hillslope, terrace, etc  | .): Depression      | on  | Local relief (concave, con   | vex, none): Concave  | <b>Slope (%):</b> 0 to 1                 |  |  |
| Subregion (LRR or MLRA):   | LRR L               |   | Lat: 42.84601755   | 91 <b>Long:</b> -74.5230633114   | 4 Datum: WGS84                           |  |  |
| Soil Map Unit Name: Darien   | silt loam, 3 to 8 p | ercent slopes   |  | NWI classi   | fication:                                |  |  |
| Are climatic/hydrologic conditio   | ns on the site typ  | ical for this time of ye  | ar? Yes No   | o (If no, explain in Rem   | arks.)                                   |  |  |
| Are Vegetation, Soil,  | or Hydrolog         | y significantly dis   | sturbed? Are "Norm   | nal Circumstances" present?  | Yes <u></u> No                           |  |  |
| Are Vegetation, Soil,  | or Hydrolog         | y naturally probl   | lematic? (If needed  | , explain any answers in Rei   | marks.)                                  |  |  |
| Hydrophytic Vegetation Present<br>Hydric Soil Present?<br>Wetland Hydrology Present?<br>Remarks: (Explain alternative p<br>Covertype is PUB. | t? Ye<br>Ye<br>Ye:  | s No<br>s No<br>s No  | ls the Sampled Area with   | in a Wetland?  | Yes No<br>W-NSD-23                       |  |  |
| Wetland Hydrology Indicators:  Primary Indicators (minimum of the surface Water (A1)   |                     | Water-Stained Lea Aquatic Fauna (B1 Marl Deposits (B1 Hydrogen Sulfide Oxidized Rhizosph Presence of Redu Recent Iron Reduc | 3) 5) Odor (C1) neres on Living Roots (C3) ced Iron (C4) ction in Tilled Soils (C6) e (C7) | Secondary Indicators (min  Surface Soil Cracks (B6  Drainage Patterns (B16)  Moss Trim Lines (B16)  Dry-Season Water Tab  Crayfish Burrows (C8)  Saturation Visible on A  Stunted or Stressed Pl  Geomorphic Position (  Shallow Aquitard (D3) | le (C2) erial Imagery (C9) ants (D1) D2) |  |  |
| Inundation Visible on Aerial Sparsely Vegetated Concave  |                     | Other (Explain in F   | Remarks)   | Microtopographic Relief (D4)   |  |  |  |
| sparsely vegetated colleave  | ; Juliace (DO)      |   |  | <u>✓</u> FAC-Neutral Test (D5)   |  |  |  |
| Field Observations:  |                     |   |  |  |  |  |  |
| Surface Water Present?   | Yes 🟒 No            | Depth   | (inches): 48   | _  |  |  |  |
| Water Table Present?   | Yes 🟒 No            | Depth   | (inches): 0  | Wetland Hydrology Prese  | nt? Yes No                               |  |  |
| Saturation Present?  | Yes <u></u> ✓ No    |   | (inches): 0  | _  |  |  |  |
| (includes capillary fringe)  |                     |   | · ,  | -  |  |  |  |
| Describe Recorded Data (stream   | m gauge monito      | ring well perial photo  | s provious inspections) if   | available:   |  |  |  |
| Remarks:   |                     |   |  |  |  |  |  |
|  |                     |   |  |  |  |  |  |

| ver OBI | Number of Dor Are OBL, FACW, Total Number of Across All Strat. Percent of Dom Are OBL, FACW, Prevalence Inde Total 9 OBL species FACW species FACW species FACU species UPL species Column Totals Preval Hydrophytic Ve  1 - Rapid T 2 - Domin 1 - 2 - Domin 1 - 3 - Prevale H - Morph data in Remark Problema Indicators of h | minant Species That , or FAC: of Dominant Species a: ninant Species That , or FAC: ex worksheet: 6 Cover of:  10  0  0  10  alence Index = B/A = getation Indicators: fest for Hydrophytic V ance Test is >50% ence Index is ≤ 3.0¹ ological Adaptations's s or on a separate shitic Hydrophytic Vege  | <sup>1</sup> (Provide so<br>neet)<br>tation¹ (Exp   | 10<br>0<br>0<br>0<br>0<br>0<br>10 (B)      |
|---------|--|--|---|--|
| ver     | Are OBL, FACW, Total Number of Across All Strate Percent of Dom Are OBL, FACW, Prevalence Inde Total 9  OBL species FACW species FACU species UPL species Column Totals Preval Hydrophytic Ve  | or FAC: of Dominant Species a: ninant Species That or FAC: ex worksheet: 6 Cover of:  10  0  0  10  alence Index = B/A = getation Indicators: est for Hydrophytic Vance Test is >50% ence Index is ≤ 3.0¹ ological Adaptations's or on a separate shitc Hydrophytic Vege   | 1 100  Multiply B x 1 = x 2 = x 3 = x 4 = x 5 = (A) 1  /egetation  (Provide somet) tation¹ (Exp   | (B) (A/B)  10 0 0 0 0 10 (B)               |
| ver     | Total Number of Across All Stratt Percent of Dom Are OBL, FACW, Prevalence Inde Total 9  OBL species FACW species FACU species UPL species Column Totals Preval Hydrophytic Ve   | of Dominant Species a: a: a: a: a: a: a: a: a: a: a: a: a:   | 100  Multiply B  x 1 = x 2 = x 3 = x 4 = x 5 = (A) 1  /egetation  (Provide somet) tation¹ (Exp    | (A/B)  2.2.  10  0  0  0  10  (B)          |
| ver     | Across All Strat. Percent of Dom Are OBL, FACW Prevalence Inde Total 9  OBL species FACW species FACU species UPL species Column Totals Preval Hydrophytic Ve  | a: ninant Species That , or FAC: ex worksheet: 6 Cover of:  10  0  0  10  alence Index = B/A = getation Indicators: est for Hydrophytic V ance Test is >50% ence Index is ≤ 3.0¹ ological Adaptations's s or on a separate shitic Hydrophytic Vege   | 100  Multiply B  x 1 = x 2 = x 3 = x 4 = x 5 = (A) 1  /egetation  (Provide somet) tation¹ (Exp    | (A/B)  2.2.  10  0  0  0  10  (B)          |
| ver     | Percent of Dom Are OBL, FACW, Prevalence Inde Total 9 OBL species FACW species FAC species FACU species UPL species Column Totals Preval Hydrophytic Ve  | ninant Species That , or FAC: ex worksheet: 6 Cover of:  10 0 0 10 alence Index = B/A = getation Indicators: est for Hydrophytic V ance Test is >50% ence Index is ≤ 3.0¹ ological Adaptations's or on a separate shitic Hydrophytic Vege  | Multiply B x 1 = x 2 = x 3 = x 4 = x 5 = (A) 1 /egetation  (Provide somet) tation¹ (Exp           | 10<br>0<br>0<br>0<br>0<br>0<br>10 (B)      |
| ver     | Are OBL, FACW, Prevalence Inde  Total 9  OBL species FACW species FACU species UPL species UPL species UPL species UPL species UPL species L - L - Rapid T L - 2 - Domin L - 3 - Prevale L - 4 - Morph data in Remark L - Problema Indicators of h   | a, or FAC:  ex worksheet:  6 Cover of:  10  0  0  10  10  alence Index = B/A = getation Indicators:  est for Hydrophytic Vance Index is ≤ 3.01  ological Adaptations: s or on a separate shiftic Hydrophytic Vege  | Multiply B x 1 = x 2 = x 3 = x 4 = x 5 = (A) 1 /egetation  (Provide somet) tation¹ (Exp           | 10<br>0<br>0<br>0<br>0<br>0<br>10 (B)      |
| ver     | Prevalence Indo  Total 9  OBL species FACW species FAC species UPL species UPL species Column Totals Preval Hydrophytic Ve  1 - Rapid T  2 - Domin  4 - Morph data in Remark Problema Indicators of h  | ex worksheet:  6 Cover of:  10  0  0  10  10  alence Index = B/A = getation Indicators: est for Hydrophytic Vance Test is >50% ence Index is ≤ 3.0¹ ological Adaptations's or on a separate shiftic Hydrophytic Vege   | x 1 =<br>x 2 =<br>x 3 =<br>x 4 =<br>x 5 =<br>(A)<br><br>/egetation  (Provide somet)  tation¹ (Exp | 10<br>0<br>0<br>0<br>0<br>0<br>10 (B)      |
| ver     | Total 9 OBL species FACW species FAC species FACU species UPL species Column Totals Preva Hydrophytic Ve ✓ 1- Rapid T ✓ 2 - Domin ✓ 3 - Prevale — 4 - Morph data in Remark — Problema ¹Indicators of h   | 6 Cover of:  | x 1 =<br>x 2 =<br>x 3 =<br>x 4 =<br>x 5 =<br>(A)<br><br>/egetation  (Provide somet)  tation¹ (Exp | 10<br>0<br>0<br>0<br>0<br>0<br>10 (B)      |
| ver     | OBL species FACW species FAC species FACU species UPL species Column Totals Preva Hydrophytic Ve 1 - Rapid T 2 - Domin 1 - 3 - Prevale 4 - Morph data in Remark Problema Indicators of h   | 10 0 0 0 10 alence Index = B/A = getation Indicators: fest for Hydrophytic \ ance Test is >50% ence Index is ≤ 3.0¹ ological Adaptations's s or on a separate sh tic Hydrophytic Vege  | x 1 =<br>x 2 =<br>x 3 =<br>x 4 =<br>x 5 =<br>(A)<br><br>/egetation  (Provide somet)  tation¹ (Exp | 10<br>0<br>0<br>0<br>0<br>0<br>10 (B)      |
| ver     | FACW species FAC species FACU species UPL species Column Totals Preva Hydrophytic Ve 1- Rapid T 2 - Domin 3 - Prevale 4 - Morph data in Remark Problema 1Indicators of h   | 0<br>0<br>0<br>10<br>alence Index = B/A =<br>getation Indicators:<br>fest for Hydrophytic \<br>ance Test is >50%<br>ence Index is ≤ 3.0¹<br>ological Adaptations'<br>s or on a separate sh<br>tic Hydrophytic Vege   | x 2 =<br>x 3 =<br>x 4 =<br>x 5 =<br>(A)<br>1 (Provide somet)<br>(Provide somet)<br>tation¹ (Exp   | 0<br>0<br>0<br>0<br>10 (B)                 |
|         | FAC species FACU species UPL species Column Totals Preva Hydrophytic Ve 1- Rapid T 2 - Domin 3 - Prevale 4 - Morph data in Remark Problema 'Indicators of h  | 0<br>0<br>0<br>10<br>alence Index = B/A =<br>getation Indicators:<br>est for Hydrophytic V<br>ance Test is >50%<br>ence Index is ≤ 3.0¹<br>ological Adaptations'<br>s or on a separate sh<br>tic Hydrophytic Vege  | x 3 =<br>x 4 =<br>x 5 =<br>(A)<br>1<br>/egetation  1 (Provide somet) tation¹ (Exp                 | 0<br>0<br>0<br>10 (B)                      |
|         | FACU species UPL species Column Totals Preva Hydrophytic Ve1- Rapid T2 - Domin   | 0<br>0<br>10<br>alence Index = B/A =<br>getation Indicators:<br>gest for Hydrophytic V<br>ance Test is >50%<br>ence Index is ≤ 3.0¹<br>ological Adaptations'<br>s or on a separate sh<br>tic Hydrophytic Vege  | x 4 =<br>x 5 =<br>(A)<br>1<br>/egetation  1 (Provide somet) tation (Exp                           | 0<br>0<br>10 (B)                           |
|         | UPL species Column Totals Preva Hydrophytic Ve   | 0<br>10<br>10<br>alence Index = B/A =<br>getation Indicators:<br>est for Hydrophytic V<br>ance Test is >50%<br>ence Index is ≤ 3.0¹<br>ological Adaptations'<br>s or on a separate sh<br>tic Hydrophytic Vege  | x 5 =   | 0<br>10 (B)                                |
|         | Column Totals Preva Hydrophytic Ve  1- Rapid T  2 - Domin  3 - Prevale  4 - Morph data in Remark  Problema Indicators of h   | 10  Idence Index = B/A =  Igetation Indicators:  Test for Hydrophytic \  Idence Test is >50%  Idence Index is ≤ 3.01  Identification Index is ≤ 3.01  Identification | (A) 1 /egetation  (Provide solution) (Exp   | 10 (B)                                     |
|         | Hydrophytic Ve  1- Rapid T  2 - Domin  3 - Prevale  4 - Morph data in Remark  Problema  1Indicators of h   | getation Indicators: fest for Hydrophytic Vance Test is >50% ence Index is ≤ 3.0¹ cological Adaptations's or on a separate sh  | /egetation  1 (Provide somet) tation¹ (Exp  |  |
|         | Hydrophytic Ve /1 - Rapid T /2 - Domin /3 - Prevale 4 - Morph data in Remark Problema 1Indicators of h   | getation Indicators:  est for Hydrophytic \ ance Test is >50%  ence Index is ≤ 3.0¹  ological Adaptations' s or on a separate sh tic Hydrophytic Vege  | /egetation  1 (Provide sineet) tation1 (Exp   | upporting                                  |
|         | 1- Rapid T  1- Rapid T  2 - Domin  3 - Prevale  4 - Morph  data in Remark  Problema  Indicators of h   | est for Hydrophytic \ ance Test is >50% ence Index is ≤ 3.0¹ ological Adaptations s or on a separate sh tic Hydrophytic Vege   | <sup>1</sup> (Provide so<br>neet)<br>tation¹ (Exp   | upporting                                  |
|         | 2 - Domin 3 - Prevale 4 - Morph data in Remark Problema 1Indicators of h   | ance Test is >50%<br>ence Index is ≤ 3.0¹<br>ological Adaptations'<br>s or on a separate sh<br>tic Hydrophytic Vege  | <sup>1</sup> (Provide si<br>neet)<br>tation¹ (Exp   | upporting                                  |
|         | 4 - Morph data in Remark ————————————————————————————————————  | ence Index is ≤ 3.0¹<br>ological Adaptations<br>s or on a separate sh<br>tic Hydrophytic Vege  | neet)<br>tation¹ (Exp   | upporting                                  |
|         | 4 - Morph data in Remark Problema 1Indicators of h   | ological Adaptations<br>s or on a separate sh<br>tic Hydrophytic Vege  | neet)<br>tation¹ (Exp   | upporting                                  |
| OBI     | data in Remark Problema Indicators of h  | s or on a separate sh<br>tic Hydrophytic Vege  | neet)<br>tation¹ (Exp   | upporting                                  |
|         | — data in Remark — Problema — Indicators of h  | tic Hydrophytic Vege   | tation¹ (Exp  |  |
|         | 1Indicators of h   |  |   |  |
|         |  | udric soil and wetlan  |   |  |
|         |  |  |   | y must be                                  |
|         | l <del></del>  | disturbed or proble  | matic   |  |
|         |  | egetation Strata:  |   |  |
|         |  | lants 3 in. (7.6 cm) o   |   | ameter at                                  |
|         |  | DBH), regardless of h  | -   |  |
|         |  | - Woody plants less t  |   | 3H and                                     |
|         |  | equal to 3.28 ft (1 m  |   |  |
|         |  | aceous (non-woody)   |   | ardless of                                 |
|         |  |  |   | 10 ft :                                    |
|         |  | All woody vines grea   | ter than 3.2  | .8 11 111                                  |
| ver     |  |  |   |  |
|         | Hydrophytic Ve   | egetation Present? `   | Yes No  | ·  |
|         |  |  |   |  |
|         |  |  |   |  |
|         |  |  |   |  |
|         | _  |  |   |  |
| ver     |  |  |   |  |
|         |  |  |   |  |
|         |  |  |   |  |
|         | over   | woody vines – height. Hydrophytic Vi   | Woody vines – All woody vines greated height.  Hydrophytic Vegetation Present?                    | Hydrophytic Vegetation Present? Yes _ / No |

| Profile Desc<br>Depth | ription: (Describe to        | the     | depth needed to (         |        |                   | indicato         | r or confirm the a          | absence of indicators.)   |
|-----------------------|------------------------------|---------|---------------------------|--------|-------------------|------------------|-----------------------------|---|
| (inches)              | Color (moist)                | %       | Color (moist)             | %      | Type <sup>1</sup> | Loc <sup>2</sup> | Texture                     | Remarks   |
| -                     |                              | _       |                           | _      |                   |                  |                             |   |
|                       |                              | _       |                           | _      |                   |                  |                             |   |
| -                     |                              | _       |                           | _      |                   |                  |                             |   |
|                       |                              | _       |                           |        |                   |                  |                             |   |
| -                     |                              | _       |                           |        |                   |                  |                             |   |
|                       |                              | _       |                           | _      |                   |                  |                             |   |
|                       | _                            | _       | _                         | · —    |                   |                  |                             |   |
|                       |                              | _       |                           | · —    |                   |                  |                             |   |
|                       | _                            | _       | _                         | · —    |                   |                  |                             |   |
|                       |                              | _       |                           | _      |                   |                  |                             | <del></del> -   |
|                       |                              | _       |                           | _      |                   |                  |                             |   |
| ¹Type: C = C          | oncentration, D = D          | eplet   | ion, RM = Reduce          | d Ma   | trix, MS =        | Masked           | Sand Grains. <sup>2</sup> l | Location: PL = Pore Lining, M = Matrix.                                   |
| Hydric Soil I         | ndicators:                   |         |                           |        |                   |                  |                             | Indicators for Problematic Hydric Soils <sup>3</sup> :                    |
| Histosol              |                              |         | ,                         |        |                   |                  | R, MLRA 149B)               | 2 cm Muck (A10) (LRR K, L, MLRA 149B)                                     |
|                       | ipedon (A2)                  |         | Thin Dark Su              |        |                   |                  |                             | Coast Prairie Redox (A16) (LRR K, L, R)                                   |
| Black His             | stic (A3)<br>n Sulfide (A4)  |         | Loamy Mucl<br>Loamy Gleye | -      |                   | (LRR K, I        | -)                          | 5 cm Mucky Peat or Peat (S3) (LRR K, L, R)                                |
|                       | d Layers (A5)                |         | Depleted Ma               |        |                   |                  |                             | Dark Surface (S7) (LRR K, L)  |
|                       | d Below Dark Surfac          | e (A1   | '                         |        |                   |                  |                             | Polyvalue Below Surface (S8) (LRR K, L) Thin Dark Surface (S9) (LRR K, L) |
|                       | rk Surface (A12)             |         | Depleted Da               |        |                   | <b>'</b> )       |                             | Iron-Manganese Masses (F12) (LRR K, L, R)                                 |
|                       | lucky Mineral (S1)           |         | Redox Depr                | essio  | ns (F8)           |                  |                             | Piedmont Floodplain Soils (F19) (MLRA 149B)                               |
| -                     | leyed Matrix (S4)            |         |                           |        |                   |                  |                             | Mesic Spodic (TA6) (MLRA 144A, 145, 149B)                                 |
| -                     | edox (S5)                    |         |                           |        |                   |                  |                             | Red Parent Material (F21)   |
|                       | Matrix (S6)                  | DA 1    | 40P)                      |        |                   |                  |                             | Very Shallow Dark Surface (TF12)  |
| Dark Su               | rface (S7) <b>(LRR R, MI</b> | LKA I   | 496)                      |        |                   |                  |                             | Other (Explain in Remarks)  |
| 3Indicators           | of hydrophytic vege          | tatior  | n and wetland hyd         | rolog  | gy must b         | preser           | nt, unless disturb          | ed or problematic.  |
| Restrictive L         | ayer (if observed):          |         |                           |        |                   |                  |                             |   |
|                       | Type:                        |         | None                      |        |                   | Hydric           | Soil Present?               | Yes No  |
| Remarks:              | Depth (inches):              |         |                           |        |                   |                  |                             |   |
|                       | dation a clear soil p        | profile | was unobtainabl           | e. Soi | ls are ass        | sumed to         | be hydric.                  |   |
|                       |                              |         |                           |        |                   |                  |                             |   |

Hydrology Photos



Photo of Sample Plot North



Photo of Sample Plot East



Photo of Sample Plot South



| Applicant/Owner SunEat State NY Sampling Point; W-NSD-23_UPL-1 Investigator(s), NikD- Eglothn, Brian Corrigan Section, Township, Range: NA Section, Range,  | Project/Site: Flat Creek Solar Project/Site: | oject                     | City/County: Can       | ajoharie, Montgomery Cou       | ınty           | Sampling Date: 202     | 21-Sept-14        |
|--|--|---------------------------|------------------------|--------------------------------|----------------|------------------------|-------------------|
| Landform fillslopp, terrace, etc.; Hillslope Local relief (concave, convex, none): Convex Slope (%): 1:03 Subregion (LRR or MLRA): LRR L Lat: 42.8451820091 (long: -74.5197677147) Datum: WGS84 Soll Map Unit Name: Darien sit loam. 3 to 8 percent slopes NWI dassification: NWI dassification: NWI dassification: Soil or rhydrology in a significantly disturbed? Are Vegetation Soil or rhydrology in anturally problematic? (if needed, explain any answers in Remarks.) Are Vegetation Soil or Hydrology in anturally problematic? (if needed, explain any answers in Remarks.) Are Vegetation Soil or Hydrology in anturally problematic? (if needed, explain any answers in Remarks.) SUMMARY OF FINDINGS – Attach site map showing sampling point locations, transects, important features, etc. Hydrophytic Vegetation Present? Yes No Late is the Sampled Area within a Wetland? Yes No Late in Hydrology Present? Yes No Late is the Sampled Area within a Wetland? Yes No Late in Hydrology Present? Yes No Late is the Sampled Area within a Wetland? Yes No Late is the | Applicant/Owner: SunEast                     |                           |                        | State: NY                      |                | Sampling Point: W-NS   | SD-23_UPL-1       |
| Subregion (LRR or MLRA): LRL Lat: 42.8451820091 Long 74.5197677147 Datum: WGS84 Solf Map Unit Name: Darien silf loam, 3 to 8 percent slopes  **Ref Vegetation  | Investigator(s): Nick DeJohn, E              | Brian Corrigan            |                        | Section, Township,             | Range: NA      | ١                      |                   |
| Soll May Unit Name: Darien silt loam, 3 to 8 percent slopes Are climatic/hydrologic conditions on the site typical for this time of year? Are Vegetation Soll or Hydrologynaturally problematic?   | Landform (hillslope, terrace, etc.           | ): Hillslope              |                        | Local relief (concave, conv    | /ex, none):    | Convex                 | Slope (%): 1 to 3 |
| Are climatic/hydrologic conditions on the site typical for this time of year?  Are Vegetation Soil or Hydrology significantly disturbed?  Are Vegetation Soil or Hydrology significantly disturbed?  Are Vegetation Soil or Hydrology significantly disturbed?  Are Vegetation Soil or Hydrology significantly disturbed?  Are Vegetation Present? Yes No Let Submit Su | Subregion (LRR or MLRA):                     | _RR L                     |                        | Lat: 42.845182009              | 1 Long:_       | -74.5197677147         | Datum: WGS84      |
| Are Vegetation Soil or Hydrology significantly disturbed? Are "Normal Circumstances" present? Yes No Are Vegetation Soil or Hydrology naturally problematic? (if needed, explain any answers in Remarks.)  SUMMARY OF FINDINGS – Attach site map showing sampling point locations, transects, important features, etc.  Hydrophytic Vegetation Present? Yes No L Is the Sampled Area within a Wetland? Yes No L If yes, optional Wetland Site ID:  Remarks: (Explain alternative procedures here or in a separate report)  Wetland Hydrology Indicators:  Primary Indicators (minimum of one is required: check all that apply)  Secondary Indicators (minimum of two required)  Surface Water (A1) Water-Stained Leaves (B9) Surface Soil Cracks (B6)  High Water Table (A2) Aquatic Fauna (B13) Moss Trim Lines (B16)  Seturation (A3) Marl Deposits (B15) Moss Trim Lines (B16)  Water Marks (B1) Hydrogen Sulfide Odor (C1) Dy's-Season Water Table (C2)  Drift Deposits (B3) Presence of Reduced Iron (C4) Saturation Nosible on Aerial Imagery (B7)  Linundation Visible on Aerial Imagery (B7) Other (Explain in Remarks)  Sparsely Vegetated Concave Surface (B8)  Field Observations:  Surface Water Present? Yes No L Depth (inches):  Water Table Present? Yes No L Depth (inches):  Saturation Nosible on Aerial Imagery (B7) Obepth (inches):  Water Table Present? Yes No L Depth (inches):  Water Table Present? Yes No L Depth (inches):  Water Table Present? Yes No L Depth (inches):  Water Table Present? Yes No L Depth (inches):  Water Table Present? Yes No L Depth (inches):  Water Table Present? Yes No L Depth (inches):  Water Table Present? Yes No L Depth (inches):  Water Table Present? Yes No L Depth (inches):  Water Table Present? Yes No L Depth (inches):  Water Table Present? Yes No L Depth (inches):  Water Table Present? Yes No L Depth (inches):  Water Table Present? Yes No L Depth (inches):  Water Table Present? Yes No L Depth (inches):  | Soil Map Unit Name: Darien s                 | ilt loam, 3 to 8 per      | cent slopes            |                                |                | NWI classification     | n:                |
| Are Vegetation Soil or Hydrology naturally problematic? (If needed, explain any answers in Remarks.)  SUMMARY OF FINDINGS – Attach site map showing sampling point locations, transects, important features, etc.  Hydrophytic Vegetation Present? Yes No / If yes, optional Wetland? Yes No / If yes, optional Wetland Site ID:  Wetland Hydrology Present alternative procedures here or in a separate report)  Covertype is UPL.  HYDROLOGY  Wetland Hydrology Indicators:  Primary Indicators (minimum of one is required; check all that apply)  Sourface Water (A1) Aquatic Fauna (B13) Secondary Indicators (minimum of two required)  Hydrace Water (A2) Aquatic Fauna (B13) Drainage Patterns (B10)  High Water Table (A2) Aquatic Fauna (B13) Dry-Season Water Table (C2)  Sediment Deposits (B1) Hydrogen Sulfide Odor (C1) Dry-Season Water Table (C2)  Drift Deposits (B3) Presence of Reduced from (C4) Saturation of Yesseed Plants (D1)  Liron Deposits (B3) Presence of Reduced from (C4) Suturation of Yesseed Plants (D1)  Liron Deposits (B3) Presence of Reduced from (C4) Shallow Aquatic Oras (B4)  Liron Deposits (B3) Presence of Reduced from (C4) Shallow Aquatical (D3)  Liron Deposits (B3) Presence of Reduced from (C4) Shallow Aquatical (D3)  Liron Deposits (B3) Presence of Reduced from (C4) Shallow Aquatical (D3)  Liron Deposits (B3) Presence of Reduced from (C4) Shallow Aquatical (D3)  Liron Deposits (B3) Presence of Reduced from (C4) Shallow Aquatical (D3)  Liron Deposits (B3) Presence of Reduced from (C4) Shallow Aquatical (D3)  Liron Deposits (B3) Presence of Reduced from (C4) Shallow Aquatical (D3)  Liron Deposits (B3) Presence of Reduced from (C4) Shallow Aquatical (D3)  Liron Deposits (B3) Presence of Reduced from (C4) Shallow Aquatical (D3)  Liron Deposits (B3) Presence of Reduced from (C4) Shallow Aquatical (D3)  Liron Deposits (B3) Presence of Reduced from (C4) Shallow Aquatical (D3)  Liron Deposits (B3) Presence of Reduced from (C4) Shallow Aquatical (D3)  Liron Deposits (B3) Presence of Reduced from (C4) Shallow Aquatical (D3)  L | Are climatic/hydrologic condition            | ns on the site typica     | al for this time of ye | ear? Yes 🟒 No                  | (If no,        | , explain in Remarks.) |                   |
| SUMMARY OF FINDINGS – Attach site map showing sampling point locations, transects, important features, etc.  Hydrophytic Vegetation Present?  Yes No / Is the Sampled Area within a Wetland?  Wetland Hydrology Present?  Wetland Hydrology Indicators:  Remarks: (Explain alternative procedures here or in a separate report)  Covertype is UPL.  HYDROLOGY  Wetland Hydrology Indicators:  Primary Indicators (minimum of one is required: check all that apply)  Secondary Indicators (minimum of two required)  Surface Water (A1)  High Water Table (A2)  Saturation (A3)  Mar Deposits (B15)  Mart Marks (B1)  Sediment Deposits (B2)  Drift Deposits (B3)  Presence of Reduced Iron (C4)  Algal Mat or Crust (B4)  Iron Deposits (B3)  Presence of Reduced Iron (C4)  Iron Deposits (B3)  Iron Recent Iron Reduction in Tilled Solis (C5)  Jen Inundation Visible on Aerial Imagery (S7)  Sparsely Vegetated Concave Surface (B8)  Field Observations:  Surface Water Present?  Yes No Depth (inches):  Wetland Hydrology Present? Yes No Depth (inches):  Wetland Hydrology Present? Yes No Depth (inches):  Wetland Hydrology Present? Yes No Depth (inches):  Wetland Hydrology Present? Yes No Depth (inches):  Wetland Present? Yes No Depth (inches):  Wetland Hydrology Present? Yes No Depth (inches):  Wetland Hydrology Present? Yes No Depth (inches):  Wetland Hydrology Present? Yes No Depth (inches):  Wetland Hydrology Present? Yes No Depth (inches):  Wetland Hydrology Present? Yes No Depth (inches):  Wetland Hydrology Present? Yes No Depth (inches):  Wetland Hydrology Present? Yes No Depth (inches):  Wetland Hydrology Present? Yes No Depth (inches):  Wetland Hydrology Present? Yes No Depth (inches):  Wetland Hydrology Present? Yes No Depth (inches):  Wetland Hydrology Present? Yes No Depth (inches):  Wetland Hydrology Present? Yes No Depth (inches):  | Are Vegetation, Soil,                        | or Hydrology <sub>-</sub> | significantly di       | sturbed? Are "Norm             | al Circumsta   | ances" present?        | Yes No            |
| Hydrophytic Vegetation Present? Yes No / Is the Sampled Area within a Wetland? Yes No / If yes, optional Wetland? Yes No / If yes, opti   | Are Vegetation, Soil,                        | or Hydrology <sub>-</sub> | naturally prob         | lematic? (If needed,           | explain any    | / answers in Remarks.  | .)                |
| Wetland Hydrology Present?  Remarks: (Explain alternative procedures here or in a separate report)  Covertype is UPL.  Wetland Hydrology Indicators:  Primary Indicators (minimum of one is required; check all that apply)  Surface Water (A1)  High Water Table (A2)  Aquatic Fauna (B13)  Water Marks (B1)  Hydrogen Sulfide Odor (C1)  Sediment Deposits (B2)  Drift Deposits (B3)  Algal Mat or Crust (B4)  In Presence of Reduced Iron (C4)  Algal Mat or Crust (B4)  Ir Presence of Reduction in Tilled Soils (C6)  In Induct Surface (C7)  In Induct Surface (C7)  Sparsely Vegetated Concave Surface (B8)  Field Observations:  Surface Water (A1)  Water Table (A2)  Drift Deposits (B3)  Algal Mat or Crust (B4)  Recent Iron Reduction in Tilled Soils (C6)  In Induct Surface (C7)  Sparsely Vegetated Concave Surface (B8)  Field Observations:  Surface Water Present?  Ves  No  Depth (inches):  Wetland Hydrology Present?  Ves |  | -                         |                        | ng point locations, trar       | nsects, im     | portant features, o    | etc.              |
| Remarks: (Explain alternative procedures here or in a separate report)  Covertype is UPL.  HYDROLOGY  Wetland Hydrology Indicators:  Primary Indicators (minimum of one is required; check all that apply)  Surface Water (A1)  High Water Table (A2)  Saturation (A3)  Marl Deposits (B15)  Water Marks (B1)  Sediment Deposits (B2)  Drift Deposits (B3)  Presence of Reduced Iron (C4)  Algal Mat or Crust (B4)  Iron Deposits (B3)  Iron Deposits (B3)  Presence of Reduced Iron (Explain in Remarks)  Iron Deposits (B5)  Inundation Visible on Aerial Imagery (B7)  Sparsely Vegetated Concave Surface (B8)  Field Observations:  Surface Water Present?  Yes No Depth (inches):  Water Table (Stream gauge, monitoring well, aerial photos, previous inspections), if available:  | Hydric Soil Present?                         | Yes                       | No _ <b>_</b> _        | Is the Sampled Area withi      | in a Wetland   | d? Yes                 | SNo_ <u>-</u> ∠   |
| HYDROLOGY  Wetland Hydrology Indicators:  Primary Indicators (minimum of one is required; check all that apply)  Surface Water (A1)  High Water Table (A2)  Saturation (A3)  Marl Deposits (B15)  Sediment Deposits (B2)  Drift Deposits (B3)  Presence of Reduced Iron (C4)  Algal Mat or Crust (B4)  For Deposits (B3)  Presence of Reduced Iron (Explain in Remarks)  Indicator (Time Agent (B1))  Presence of Reduced Iron (C4)  Field Observations:  Sparsely Vegetated Concave Surface (B8)  Field Observations:  Surface Water Present?  Yes No Depth (inches):  Water Alposits (Ray Depth (inches):  Water Table (Passer)  Water Table (Passer)  Wetland Hydrology Indicators (minimum of two required)  Secondary Indicators (minimum of two required)  Secondary Indicators (minimum of two required)  Surface Soil Cracks (B6)  Drainage Patterns (B10)  Moss Trim Lines (B16)  Dry-Season Water Table (C2)  Crayfish Burrows (C8)  Saturation Visible on Aerial Imagery (C9)  Shallow Aquitard (D3)  Shallow Aquitard (D3)  Microtopographic Relief (D4)  FAC-Neutral Test (D5)  FAC-Neutral Test (D5)  Saturation Present?  Yes No Depth (inches):  Wetland Hydrology Present?  Yes No Depth (inches):  Wetland Hydrology Present?  Yes No Depth (inches):  Wetland Hydrology Present?  Yes No Depth (inches):  Wetland Hydrology Present?  Yes No Depth (inches):  Wetland Hydrology Present?  Yes No Depth (inches):  Wetland Hydrology Present?  Yes No Depth (inches):  Wetland Hydrology Present?  Yes No Depth (inches):  Wetland Hydrology Present?  Yes No Depth (inches):  Wetland Hydrology Present?  Yes No Depth (inches):  Wetland Hydrology Present?  Yes No Depth (inches):  Wetland Hydrology Present?  Yes No Depth (inches):  Wetland Hydrology Present?  Yes No Depth (inches):  Wetland Hydrology Present?  Yes No Depth (inches):  Wetland Hydrology Present?  Yes No Depth (inches):  Wetland Hydrology Present?  Yes No Depth (inches):  Wetland Hydrology Present?  Yes No Depth (inches):  Wetland Hydrology Present?  Yes No Depth (inches):  Yes No Depth (inches):                    | Wetland Hydrology Present?                   | Yes                       | No                     | If ves. optional Wetland S     | ite ID:        |                        |                   |
| Wetland Hydrology Indicators:  Primary Indicators (minimum of one is required; check all that apply)  Surface Water (A1) Water-Stained Leaves (B9) Surface Soil Cracks (B6) Drainage Patterns (B10) Water Table (A2) Aquatic Fauna (B13) Marl Deposits (B15) Marl Deposits (B15)   |  |                           |                        |                                |                |                        |                   |
| Surface Water (A1)   | Г  |                           |                        |                                |                |                        |                   |
| Surface Water (A1)   | Primary Indicators (minimum of               | f one is required; c      | heck all that apply)   |                                | Secondary      | Indicators (minimum    | of two required)  |
| High Water Table (A2)  Saturation (A3)  Water Marks (B1)  Sediment Deposits (B2)  Drift Deposits (B3)  High Water Table (B4)  Aquatic Fauna (B13)  Moss Trim Lines (B16)  Dry-Season Water Table (C2)  Crayfish Burrows (C8)  Saturation Visible on Aerial Imagery (C9)  Thin Muck Surface (C7)  Sparsely Vegetated Concave Surface (B8)  Field Observations:  Surface Water Present?  Water Table Present?  Yes No _ ∠ Depth (inches):  Water Table Present?  Yes No _ ∠ Depth (inches):  (includes capillary fringe)  Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:   | Surface Water (A1)                           | •                         | Water Stained Lea      | ayos (PO)                      | Surface        | e Soil Cracks (B6)     | ·                 |
| Saturation (A3)  | <del></del>                                  |                           |                        |                                | Drainag        | ge Patterns (B10)      |                   |
|  |  |                           |                        |                                |                |                        |                   |
| Sediment Deposits (B2)   |  |                           |                        |                                | -              |                        |                   |
|  |  |                           |                        |                                | -              |                        | (60)              |
| Algal Mat or Crust (B4) Recent Iron Reduction in Tilled Soils (C6) Geomorphic Position (D2) Shallow Aquitard (D3) Sparsely Vegetated Concave Surface (B8) No Depth (inches): Saturation Present? Yes No Depth (inches): Depth (inches): Shallow Aquitard (D3) Microtopographic Relief (D4) FAC-Neutral Test (D5) FAC-Neutral Test (D5) Shallow Aquitard (D3) Microtopographic Relief (D4) FAC-Neutral Test (D5) FAC-Neutral Test (D5) Shallow Aquitard (D3) Microtopographic Relief (D4) FAC-Neutral Test (D5) FAC-Neutral Test (D5) FAC-Neutral Test (D5) Shallow Aquitard (D3) Microtopographic Relief (D4) FAC-Neutral Test (D5)  |  | _                         | •                      | _                              |                |                        |                   |
|  | Algal Mat or Crust (B4)                      | _                         | _ Recent Iron Redu     | ction in Tilled Soils (C6)     |                | •                      | (ال               |
|  | Iron Deposits (B5)                           | _                         |                        |                                |                |                        |                   |
|  |  |                           | _ Other (Explain in I  | Remarks)                       |                |                        | )                 |
| Field Observations:  Surface Water Present? Yes No _ ✓ Depth (inches):  Water Table Present? Yes No _ ✓ Depth (inches):  Saturation Present? Yes No _ ✓ Depth (inches):  (includes capillary fringe)  Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:   | Sparsely Vegetated Concave                   | Surface (B8)              |                        |                                |                |                        | ,                 |
| Water Table Present? Yes No / Depth (inches): Wetland Hydrology Present? Yes No / Saturation Present? Yes No / Depth (inches): (includes capillary fringe)  Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:   | Field Observations:                          |                           |                        |                                |                |                        |                   |
| Saturation Present? Yes No Depth (inches): (includes capillary fringe)  Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:   | Surface Water Present?                       | Yes No _                  | <u>✓</u> Depth         | (inches):                      |                |                        |                   |
| Saturation Present? Yes No Depth (inches): (includes capillary fringe)  Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:   | Water Table Present?                         | Yes No                    | ✓ Depth                | (inches):                      | -<br>Wetland H | lydrology Present?     | Yes No            |
| (includes capillary fringe)  Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:  |  |                           |                        | · -                            | -              | ,                      |                   |
| Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:   |  | 163 110 _                 | v Deptil               | (111c11c3).                    | =              |                        |                   |
|  |  |                           |                        | t t t t t                      |                |                        | <del></del>       |
| Remarks:   |  | n gauge, monitorin        | g weii, aeriai pnoto   | s, previous inspections), it a | avaliable:     |                        |                   |
|  | Remarks:                                     |                           |                        |                                |                |                        |                   |

| Tree Stratum (Plot size: <u>30 ft</u> )                   |          | Dominant    |        | Dominance Test worksheet:                               |                          |                        |
|---|----------|-------------|--------|---|--------------------------|------------------------|
| <del></del>   | % Cover  | Species?    | Status | Number of Dominant Species That                         | 1                        | (A)                    |
| l   |          |             |        | Are OBL, FACW, or FAC:                                  |                          |                        |
| 2   |          |             |        | Total Number of Dominant Species Across All Strata:     | 2                        | (B)                    |
| 3.  |          |             |        |   |                          |                        |
| 1.  |          |             |        | Percent of Dominant Species That Are OBL, FACW, or FAC: | 50                       | (A/B)                  |
| 5.  |          |             |        | Prevalence Index worksheet:                             |                          |                        |
| 5.  |          |             |        | Total % Cover of:                                       | Multiply                 | D. a                   |
| 7.  |          |             |        | - OBL species 0   | <u>Multiply</u><br>x 1 = | <u><b>ъу.</b></u><br>О |
|   | 0        | = Total Cov | er     | · -   | -                        | 0                      |
| Sapling/Shrub Stratum (Plot size:15 ft)                   |          | -           |        | · -   | x 2 =                    | -                      |
|   |          |             |        | FAC species 32  | x 3 =                    | 96                     |
| 2.  |          |             |        | FACU species 60   | x 4 =                    | 240                    |
| 3.  |          |             |        | - UPL species 0   | x 5 =                    | 0                      |
| 1.  |          |             |        | - Column Totals 92                                      | (A)                      | 336 (B)                |
| 5.  |          |             |        | Prevalence Index = B/A =                                | 3.7                      |                        |
| 5.  |          |             |        | Hydrophytic Vegetation Indicators:                      |                          |                        |
|   |          |             |        | 1- Rapid Test for Hydrophytic                           | Vegetation               | 1                      |
| 7   |          | Tatal Car   |        | 2 - Dominance Test is > 50%                             |                          |                        |
|   | 0        | = Total Cov | er     | 3 - Prevalence Index is ≤ 3.01                          |                          |                        |
| Herb Stratum (Plot size: <u>5 ft</u> )                    | 60       |             | E4.611 | 4 - Morphological Adaptations                           | s¹ (Provide              | supporting             |
| . Solidago canadensis                                     | 60       | Yes         | FACU   | data in Remarks or on a separate s                      | heet)                    |                        |
| 2. Euthamia graminifolia                                  |          | Yes         | FAC    | Problematic Hydrophytic Veg                             | etation¹ (Ex             | (plain)                |
| 3. Pycnanthemum tenuifolium                               | 12       | <u>No</u>   | FAC    | <sup>1</sup> Indicators of hydric soil and wetla        | nd hydrolo               | gy must be             |
| 1   |          |             |        | present, unless disturbed or proble                     | ematic                   |                        |
| j   |          |             |        | Definitions of Vegetation Strata:                       |                          |                        |
| j   |          |             |        | Tree – Woody plants 3 in. (7.6 cm) o                    | r more in                | diameter at            |
| 7   |          |             |        | breast height (DBH), regardless of l                    | neight.                  |                        |
| 3.  |          |             |        | Sapling/shrub – Woody plants less                       |                          | DBH and                |
| )   |          |             |        | greater than or equal to 3.28 ft (1 n                   |                          |                        |
| 0   |          |             |        | Herb – All herbaceous (non-woody)                       |                          | gardless of            |
| 11  |          |             |        | size, and woody plants less than 3.                     |                          |                        |
| 2.  |          |             |        | Woody vines – All woody vines grea                      | ater than 3              | .28 ft in              |
|   | 92       | = Total Cov | er     | height.   |                          |                        |
| Voody Vine Stratum (Plot size: 30 ft )                    |          | -           |        | Hydrophytic Vegetation Present?                         | Yes N                    | lo <u> </u>            |
| i.  |          |             |        |   |                          |                        |
| 2.  |          |             |        | -   |                          |                        |
| 3.  |          |             |        | -   |                          |                        |
| ·   |          |             |        | -   |                          |                        |
| ··  |          | = Total Cov | or     | -   |                          |                        |
|   | <u> </u> | - Total Cov | C1     | _   |                          |                        |
| Noody Vine Stratum (Plot size: <u>30 ft</u> )<br> .<br> - | 0        | = Total Cov |        |   | Yes N                    |                        |

| Profile Desc  | cription: (Describe         | to the de | =                |      |                   | ndicator          | or confirm the a            | bsence of indicator  | s.)                                    |
|---------------|-----------------------------|-----------|------------------|------|-------------------|-------------------|-----------------------------|----------------------|--|
| Depth _       | Matrix                      |           | Redox            | Feat | tures             |                   |                             |                      |  |
| (inches)      | Color (moist)               | %         | Color (moist)    | %    | Type <sup>1</sup> | Loc <sup>2</sup>  | Tex                         | ture                 | Remarks                                |
| 0 - 15        | 10YR 3/2                    | 100       |                  |      |                   |                   | Silt L                      | _oam                 |  |
| 15 - 20       | 10YR 3/2                    | 95        | 10YR 5/8         | 5    | C                 | M                 | Silty Cla                   | ay Loam              |  |
|               |                             |           |                  | _    |                   |                   |                             | · .                  |  |
|               |                             |           |                  | _    |                   |                   |                             |                      |  |
|               |                             |           |                  | _    |                   |                   |                             |                      |  |
| <u> </u>      |                             |           |                  | _    |                   |                   | -                           |                      |  |
|               |                             |           |                  | _    |                   |                   |                             |                      |  |
|               |                             |           |                  | _    |                   |                   |                             |                      |  |
|               |                             |           |                  | _    |                   |                   |                             |                      |  |
|               |                             |           |                  | _    |                   |                   |                             |                      |  |
|               |                             |           |                  | _    |                   |                   |                             |                      |  |
|               |                             |           |                  | _    |                   |                   |                             |                      |  |
|               |                             |           |                  |      |                   |                   |                             |                      |  |
| ¹Type: C = C  | oncentration, D =           | Depletio  | n, RM = Reduced  | Mat  | rix, MS =         | Masked            | Sand Grains. <sup>2</sup> L | ocation: PL = Pore l | Lining, M = Matrix.                    |
| Hydric Soil   |                             | '         |                  |      | •                 |                   |                             |                      | oblematic Hydric Soils³:               |
| Histosol      |                             |           | Polyvalue Bel    | ow S | jurface (S        | 8) <b>(I RR I</b> | R. MI RA 149B)              |                      | •                                      |
|               | oipedon (A2)                |           | Thin Dark Sur    |      |                   |                   |                             |                      | 10) (LRR K, L, MLRA 149B)              |
| Black Hi      | •                           |           | Loamy Mucky      |      |                   |                   |                             | <del></del>          | Redox (A16) (LRR K, L, R)              |
|               | en Sulfide (A4)             |           | Loamy Gleyed     |      |                   | (=, -             | -,                          | •                    | Peat or Peat (S3) (LRR K, L, R)        |
|               | d Layers (A5)               |           | Depleted Mat     |      |                   |                   |                             | Dark Surface         |  |
|               | d Below Dark Surfa          |           |                  |      |                   |                   |                             |                      | ow Surface (S8) <b>(LRR K, L)</b>      |
|               | ark Surface (A12)           |           | Depleted Dar     |      |                   | )                 |                             |                      | face (S9) <b>(LRR K, L)</b>            |
|               | lucky Mineral (S1)          |           | Redox Depre      |      |                   |                   |                             | _                    | ese Masses (F12) (LRR K, L, R)         |
|               | ileyed Matrix (S4)          |           |                  |      | - ( - /           |                   |                             |                      | odplain Soils (F19) <b>(MLRA 149B)</b> |
| -             | edox (S5)                   |           |                  |      |                   |                   |                             | Mesic Spodic         | (TA6) <b>(MLRA 144A, 145, 149B)</b>    |
| _             | d Matrix (S6)               |           |                  |      |                   |                   |                             | Red Parent M         | aterial (F21)                          |
|               |                             | 41 DA 4 4 | nn)              |      |                   |                   |                             | Very Shallow         | Dark Surface (TF12)                    |
| Dark Su       | rface (S7) <b>(LRR R, N</b> | ILKA 149  | 98)              |      |                   |                   |                             | Other (Explain       | n in Remarks)                          |
| 3Indicators   | of hydrophytic veg          | etation a | and wetland hydr | olog | y must b          | e presen          | t, unless disturbe          | ed or problematic.   |  |
| Restrictive I | ayer (if observed):         |           |                  |      |                   |                   |                             |                      |  |
|               | Type:                       |           | None             |      |                   | Hydric            | Soil Present?               | ,                    | Yes No/_                               |
|               | Depth (inches):             | -         |                  |      |                   | 1                 |                             |                      |  |
| Remarks:      | э срен (нистезу.            |           |                  |      |                   | 1                 |                             |                      |  |
| Remarks.      |                             |           |                  |      |                   |                   |                             |                      |  |
|               |                             |           |                  |      |                   |                   |                             |                      |  |
|               |                             |           |                  |      |                   |                   |                             |                      |  |
|               |                             |           |                  |      |                   |                   |                             |                      |  |
|               |                             |           |                  |      |                   |                   |                             |                      |  |
|               |                             |           |                  |      |                   |                   |                             |                      |  |
|               |                             |           |                  |      |                   |                   |                             |                      |  |
|               |                             |           |                  |      |                   |                   |                             |                      |  |
|               |                             |           |                  |      |                   |                   |                             |                      |  |
|               |                             |           |                  |      |                   |                   |                             |                      |  |
|               |                             |           |                  |      |                   |                   |                             |                      |  |
|               |                             |           |                  |      |                   |                   |                             |                      |  |
|               |                             |           |                  |      |                   |                   |                             |                      |  |
|               |                             |           |                  |      |                   |                   |                             |                      |  |
|               |                             |           |                  |      |                   |                   |                             |                      |  |
|               |                             |           |                  |      |                   |                   |                             |                      |  |
|               |                             |           |                  |      |                   |                   |                             |                      |  |
|               |                             |           |                  |      |                   |                   |                             |                      |  |
| ]             |                             |           |                  |      |                   |                   |                             |                      |  |
|               |                             |           |                  |      |                   |                   |                             |                      |  |
| ]             |                             |           |                  |      |                   |                   |                             |                      |  |
|               |                             |           |                  |      |                   |                   |                             |                      |  |



Photo of Sample Plot North



Photo of Sample Plot East



Photo of Sample Plot South



| oject                            | _City/County: Can  | ajoharie, Montgomery Cou  | nty  | Sampling Date: 20   | 21-Sept-14   |
|----------------------------------|--|---|--|---|--|
|                                  |  | State: NY   |  | Sampling Point: W-N   | SD-23_UPL-2  |
| Abi Light                        |  | Section, Township,  | Range: NA  | 4   |  |
| . <b>):</b> Flat                 |  | Local relief (concave, conv   | ex, none):_  | Undulating  | Slope (%): 0 to 1  |
| LRR L                            |  | Lat: 42.846041950   | 4 Long:  | -74.5230853558  | Datum: WGS84   |
| silt loam, 3 to 8 perc           | ent slopes   |   |  | NWI classification  | on:  |
| ns on the site typica            | l for this time of ye  | ar? Yes <u>✓</u> No   | (If no   | , explain in Remarks.)  | )  |
| or Hydrology _                   | significantly dis  | sturbed? Are "Norma   | al Circumst  | ances" present?   | Yes No   |
| or Hydrology _                   | naturally probl  | ematic? (If needed,   | explain any  | y answers in Remarks  | 5.)  |
| t? Yes                           | No   |   |  | -   | etc.<br>s No⁄_   |
|                                  |  |   |  |   | <u> </u>   |
|                                  |  |   |  |   |  |
| -<br>-<br>-                      | _ Water-Stained Lea<br>_ Aquatic Fauna (B1<br>_ Marl Deposits (B1                        | 3)<br>5)  | Surface<br>Draina<br>Moss T  | e Soil Cracks (B6)<br>ge Patterns (B10)<br>Trim Lines (B16)   | •  |
|                                  | _ Oxidized Rhizosph<br>_ Presence of Reduc<br>_ Recent Iron Reduc<br>_ Thin Muck Surface | neres on Living Roots (C3)<br>ced Iron (C4)<br>ction in Tilled Soils (C6)<br>e (C7)   | Satura<br>Stunte<br>Geomo<br>Shallow   | tion Visible on Aerial<br>d or Stressed Plants (<br>orphic Position (D2)  | D1)  |
| e Surface (B8)                   |  |   | FAC-Ne   | eutral Test (D5)  |  |
| Surface (B8)                     |  |   | FAC-Ne   | eutral Test (D5)  |  |
| Yes No _                         | ✓ Depth  | (inches):   | FAC-Ne   | eutral Test (D5)  |  |
|                                  | ·  | (inches):   | -  | eutral Test (D5)  Hydrology Present?  | Yes No <b>∠</b>  |
| Yes No _<br>Yes No _             | <u>✓</u> Depth   | (inches):   | -  |   | Yes No   |
| Yes No _<br>Yes No _<br>Yes No _ | ✓ Depth ✓ Depth  | · -   | Wetland H  |   | Yes No   |
|                                  | Attach site map t? Yes Yes rocedures here or in  | J: Flat LRR L  Silt loam, 3 to 8 percent slopes  ns on the site typical for this time of ye or Hydrology significantly disor Hydrology naturally proble  Attach site map showing sampling t? Yes No/ Yes No/ Yes No/ rocedures here or in a separate report  fone is required; check all that apply)  Water-Stained Lea Aquatic Fauna (B1 Marl Deposits (B1 Hydrogen Sulfide Oxidized Rhizospl Presence of Redu Recent Iron Reduc Thin Muck Surface | Abi Light Section, Township,  .): Flat Local relief (concave, conv.)  LRR L Lat: 42.846041950  silt loam, 3 to 8 percent slopes  ns on the site typical for this time of year? Yes No or Hydrology significantly disturbed? Are "Norm or Hydrology naturally problematic? (If needed,  Attach site map showing sampling point locations, transt? Yes No Is the Sampled Area withing yes No If yes, optional Wetland Surcedures here or in a separate report) | Abi Light  Section, Township, Range: NA  Section, Township, Range: NA  Section, Township, Range: NA  Section, Township, Range: NA  Lat: 42.8460419504 Long: Silt loam, 3 to 8 percent slopes  Ins on the site typical for this time of year? Yes No (If no or Hydrology significantly disturbed? Are "Normal Circumst or Hydrology naturally problematic? (If needed, explain and the site map showing sampling point locations, transects, important of the sampled Area within a Wetland to the sampled Area within a Wetland Yes No If yes, optional Wetland Site ID:  If one is required: check all that apply)  Secondary  Water-Stained Leaves (B9) Surface | Abi Light Section, Township, Range: NA  Discription Section, Township, Range: NA  Lat: 42.8460419504 Long: -74.5230853558  NW classification on the site typical for this time of year?  Or Hydrology significantly disturbed? |

| Tree Stratum (Plot size:30 ft)                      |                                       | Dominant<br>Species? | Indicator<br>Status | Dominance Test worl<br>Number of Dominan<br>Are OBL, FACW, or FA | t Species That  | 1         | (A)         |
|---|---------------------------------------|----------------------|---------------------|--|-----------------|-----------|-------------|
| 1<br>2.   |                                       |                      |                     | Total Number of Don  |                 |           |             |
| 3.  |                                       |                      |                     | Across All Strata:   | •               | 2         | (B)         |
| 4.  |                                       |                      |                     | Percent of Dominant  | •               | 50        | (A/B)       |
| 5.  |                                       |                      |                     | Are OBL, FACW, or FA   |                 |           |             |
| 6.  |                                       |                      |                     | Prevalence Index wo  |                 |           | _           |
| 7.  |                                       |                      |                     | Total % Cove   |                 | Multiply  | -           |
|   | 0                                     | = Total Cove         | er                  | OBL species  | 0               | x1=_      | 0           |
| Sapling/Shrub Stratum (Plot size: <u>15 ft</u> )    | ·                                     | _                    |                     | FACW species   | 0               | x 2 =     | 120         |
| 1.  |                                       |                      |                     | FACIL energies   | 40              | x 3 = _   | 120         |
| 2.  |                                       |                      |                     | FACU species   | 53              | x 4 = _   | 212         |
| 3.  |                                       |                      |                     | UPL species  | 10              | x 5 = _   | 50          |
| 4.  |                                       |                      |                     | Column Totals  | 103             | (A) _     | 382 (B)     |
| 5.  |                                       |                      |                     | •  | Index = B/A =   | 3.7       |             |
| 6.  |                                       |                      |                     | Hydrophytic Vegetati   |                 |           |             |
| 7.  |                                       |                      |                     | 1- Rapid Test fo   |                 | egetation |             |
|   |                                       | = Total Cove         | er                  | 2 - Dominance  |                 |           |             |
| Herb Stratum (Plot size: <u>5 ft</u> )              | · · · · · · · · · · · · · · · · · · · | -                    |                     | 3 - Prevalence II  |                 |           |             |
| 1. Pycnanthemum tenuifolium                         | 40                                    | Yes                  | FAC                 | 4 - Morphologic  | •               | -         | supporting  |
| 2. <i>Solidago canadensis</i>                       | 33                                    | Yes                  | FACU                | data in Remarks or o   | •               |           |             |
| 3. Rubus allegheniensis                             | 10                                    | No                   | FACU                | Problematic Hy   |                 |           |             |
| 4. Trifolium pratense                               | 10                                    | No                   | FACU                | Indicators of hydric present, unless distu                       |                 | -         | gy must be  |
| 5. Asclepias syriaca                                | 10                                    | No                   | UPL                 | Definitions of Vegeta  |                 | Hatic     |             |
| 6.  |                                       |                      | 0. 2                | Tree – Woody plants  |                 | more in   | diameter at |
| 7.  |                                       |                      |                     | breast height (DBH),   |                 |           | alameter at |
| 8.  |                                       |                      |                     | Sapling/shrub - Woo  | -               | _         | BH and      |
| 9.  |                                       |                      |                     | greater than or equa   |                 |           |             |
|   |                                       |                      |                     | Herb – All herbaceou   |                 |           | gardless of |
|   |                                       |                      |                     | size, and woody plan   | -               |           |             |
| 11<br>12.   |                                       |                      |                     | Woody vines - All wo   | ody vines great | er than 3 | .28 ft in   |
| 12.   | 103                                   | = Total Cove         | \r                  | height.  |                 |           |             |
| Woody Vine Stratum (Plot size: <u>30 ft</u> )<br>1. | 103                                   | _ Total Cove         | :1                  | Hydrophytic Vegetat  | ion Present? \  | /es N     | lo <u> </u> |
| 2.  |                                       |                      |                     |  |                 |           |             |
| 3.  |                                       |                      |                     |  |                 |           |             |
| 4.  |                                       |                      |                     | -  |                 |           |             |
|   |                                       | = Total Cove         | er                  | -  |                 |           |             |
|   |                                       | -                    |                     |  |                 |           |             |

| Profile Desc  | ription: (Describe t        | to the de       | pth needed to do  | cum    | ent the i         | ndicato          | or confirm the a            | bsence of indicators.  | )                                    |
|---------------|-----------------------------|-----------------|-------------------|--------|-------------------|------------------|-----------------------------|------------------------|--------------------------------------|
| Depth _       | Matrix                      |                 | Redox             | Feat   | ures              |                  |                             |                        |                                      |
| (inches)      | Color (moist)               | %               | Color (moist)     | %      | Type <sup>1</sup> | Loc <sup>2</sup> | Te                          | exture                 | Remarks                              |
| 0 - 7         | 10YR 3/2                    | 100             |                   | _      |                   |                  | Gravell                     | y Silt Loam            |                                      |
|               |                             |                 |                   | _      |                   |                  |                             |                        |                                      |
|               |                             |                 |                   | _      |                   |                  | -                           |                        | -                                    |
|               |                             |                 |                   | _      |                   |                  | -                           |                        |                                      |
|               |                             |                 |                   | _      |                   |                  |                             |                        |                                      |
|               |                             |                 |                   | _      |                   |                  |                             |                        |                                      |
|               |                             |                 |                   | _      |                   |                  |                             |                        |                                      |
|               |                             |                 |                   | _      |                   |                  |                             |                        |                                      |
|               |                             |                 |                   |        |                   |                  |                             |                        |                                      |
|               |                             |                 |                   | _      |                   |                  |                             |                        |                                      |
| -             |                             |                 |                   | _      |                   |                  | -                           | _                      |                                      |
|               |                             |                 |                   | _      |                   |                  | -                           |                        | -                                    |
|               |                             |                 |                   | _      |                   |                  | -                           |                        |                                      |
|               |                             | . <del></del> . |                   | _      |                   |                  |                             |                        |                                      |
| ¹Type: C = C  | oncentration, D = I         | Depletio        | n, RM = Reduced   | Matı   | rix, MS =         | Masked           | Sand Grains. <sup>2</sup> L | ocation: PL = Pore Lir | ning, M = Matrix.                    |
| Hydric Soil I | ndicators:                  |                 |                   |        |                   |                  |                             | Indicators for Prob    | lematic Hydric Soils³:               |
| Histosol      | (A1)                        |                 | Polyvalue Bel     | ow S   | urface (S         | 8) <b>(LRR</b>   | R, MLRA 149B)               | 2 cm Muck (A10         | )) (LRR K, L, MLRA 149B)             |
| Histic Ep     | ipedon (A2)                 |                 | Thin Dark Sur     | face   | (S9) (LRR         | R, MLR           | A 149B)                     |                        | edox (A16) <b>(LRR K, L, R)</b>      |
| Black Hi      | stic (A3)                   |                 | Loamy Mucky       | Min    | eral (F1)         | (LRR K, I        | L)                          |                        | at or Peat (S3) <b>(LRR K, L, R)</b> |
| Hydroge       | n Sulfide (A4)              |                 | Loamy Gleyed      |        |                   |                  |                             | Dark Surface (S        |                                      |
| Stratifie     | d Layers (A5)               |                 | Depleted Mat      | rix (I | <del>-</del> 3)   |                  |                             |                        | w Surface (S8) <b>(LRR K, L)</b>     |
| Deplete       | d Below Dark Surfa          |                 |                   |        |                   |                  |                             | Thin Dark Surfa        |                                      |
|               | irk Surface (A12)           |                 | Depleted Dar      |        |                   | )                |                             |                        | e Masses (F12) (LRR K, L, R)         |
| Sandy M       | lucky Mineral (S1)          |                 | Redox Depres      | ssior  | ıs (F8)           |                  |                             | •                      | dplain Soils (F19) (MLRA 149B)       |
| Sandy G       | leyed Matrix (S4)           |                 |                   |        |                   |                  |                             |                        | (MLRA 144A, 145, 149B)               |
| Sandy R       | edox (S5)                   |                 |                   |        |                   |                  |                             | •                      |                                      |
| Stripped      | Matrix (S6)                 |                 |                   |        |                   |                  |                             | Red Parent Mat         |                                      |
|               | rface (S7) <b>(LRR R, M</b> | ILRA 149        | B)                |        |                   |                  |                             | Very Shallow Da        |                                      |
|               |                             |                 | _,                |        |                   |                  |                             | Other (Explain i       | in Remarks)                          |
| 3Indicators   | of hydrophytic veg          | etation a       | ind wetland hydro | ology  | y must be         | e preser         | t, unless disturbe          | ed or problematic.     |                                      |
| Restrictive L | .ayer (if observed):        |                 |                   |        |                   |                  |                             |                        |                                      |
|               | Type:                       |                 | None              |        |                   | Hydric           | Soil Present?               |                        | Yes No/_                             |
|               | Depth (inches):             |                 |                   |        |                   |                  |                             |                        |                                      |
| Remarks:      | -1 (                        |                 |                   |        |                   | 1                |                             |                        |                                      |
|               | riction due to grav         | rol.            |                   |        |                   |                  |                             |                        |                                      |
| Digging resi  | inction due to grav         | CI.             |                   |        |                   |                  |                             |                        |                                      |
|               |                             |                 |                   |        |                   |                  |                             |                        |                                      |
|               |                             |                 |                   |        |                   |                  |                             |                        |                                      |
|               |                             |                 |                   |        |                   |                  |                             |                        |                                      |
|               |                             |                 |                   |        |                   |                  |                             |                        |                                      |
|               |                             |                 |                   |        |                   |                  |                             |                        |                                      |
|               |                             |                 |                   |        |                   |                  |                             |                        |                                      |
|               |                             |                 |                   |        |                   |                  |                             |                        |                                      |
|               |                             |                 |                   |        |                   |                  |                             |                        |                                      |
|               |                             |                 |                   |        |                   |                  |                             |                        |                                      |
|               |                             |                 |                   |        |                   |                  |                             |                        |                                      |
|               |                             |                 |                   |        |                   |                  |                             |                        |                                      |
|               |                             |                 |                   |        |                   |                  |                             |                        |                                      |
|               |                             |                 |                   |        |                   |                  |                             |                        |                                      |
|               |                             |                 |                   |        |                   |                  |                             |                        |                                      |
|               |                             |                 |                   |        |                   |                  |                             |                        |                                      |
|               |                             |                 |                   |        |                   |                  |                             |                        |                                      |
|               |                             |                 |                   |        |                   |                  |                             |                        |                                      |
| ]             |                             |                 |                   |        |                   |                  |                             |                        |                                      |
|               |                             |                 |                   |        |                   |                  |                             |                        |                                      |
|               |                             |                 |                   |        |                   |                  |                             |                        |                                      |



Photo of Sample Plot North



Photo of Sample Plot East



Photo of Sample Plot South



| Project/Site: Flat Creek Solar Pr   | oject               | City/County: Cana  | joharie, Montgomery Cou       | nty Sampling Date: 2021-Sept-14               |
|---|---------------------|--|-------------------------------|---|
| Applicant/Owner: SunEast  |                     |  | State: NY                     | Sampling Point: W-NSD-23_UPL-3                |
| Investigator(s): Nick DeJohn, A   | Abi Light           |  | Section, Township,            | Range: NA                                     |
| Landform (hillslope, terrace, etc.  | . <b>):</b> Flat    |  | Local relief (concave, conv   | ex, none): Undulating Slope (%): 0 to         |
| Subregion (LRR or MLRA):  | LRR L               |  | Lat: 42.845592931             | Datum: WGS8                                   |
| Soil Map Unit Name: Darien s  | silt loam, 3 to 8 p | ercent slopes  |                               | NWI classification:                           |
| Are climatic/hydrologic condition   | ns on the site typ  | oical for this time of yea                                     | ar? Yes <u></u> ✓ No          | (If no, explain in Remarks.)                  |
| Are Vegetation, Soil,   | or Hydrolog         | gy significantly dis   | turbed? Are "Norma            | al Circumstances" present? Yes 🟒 No           |
| Are Vegetation, Soil,   | or Hydrolog         | gy naturally proble  | ematic? (If needed,           | explain any answers in Remarks.)              |
| Hydrophytic Vegetation Presen<br>Hydric Soil Present?<br>Wetland Hydrology Present?<br>Remarks: (Explain alternative processing to the processing t | t? Ye               | /es No _ <b>_∕</b><br>/es No _ <b>_∕</b><br>/es No _ <b>_∕</b> | Is the Sampled Area within    |   |
| HYDROLOGY  Wetland Hydrology Indicators:  Primary Indicators (minimum o   | of one is required: | I check all that apply)  |                               | Secondary Indicators (minimum of two required |
| Frimary indicators (minimum o   | i one is required,  | і, спеск ан шасарріу)  |                               | Surface Soil Cracks (B6)                      |
| Surface Water (A1)  |                     | Water-Stained Lea  |                               | Drainage Patterns (B10)                       |
| High Water Table (A2)   |                     | Aquatic Fauna (B13   |                               | Moss Trim Lines (B16)                         |
| Saturation (A3)   |                     | Marl Deposits (B15   |                               | Dry-Season Water Table (C2)                   |
| Water Marks (B1)<br>Sediment Deposits (B2)  |                     | Hydrogen Sulfide (   | eres on Living Roots (C3)     | Crayfish Burrows (C8)                         |
| Drift Deposits (B3)   |                     | Presence of Reduc  | •                             | Saturation Visible on Aerial Imagery (C9)     |
| Algal Mat or Crust (B4)   |                     |  | tion in Tilled Soils (C6)     | Stunted or Stressed Plants (D1)               |
| Algai Mat of Crust (B4) Iron Deposits (B5)  |                     | Thin Muck Surface  | ` ,                           | Geomorphic Position (D2)                      |
| Inundation Visible on Aerial  | Imagery (B7)        | Other (Explain in R  |                               | Shallow Aquitard (D3)                         |
| Sparsely Vegetated Concave  |                     | Other (Explain in it   | erriarits)                    | Microtopographic Relief (D4)                  |
|   |                     |  |                               | FAC-Neutral Test (D5)                         |
| Field Observations:   |                     |  |                               |   |
| Surface Water Present?  | Yes No              | •  |                               |   |
| Water Table Present?  | Yes No              | o 🗾 Depth (  | inches):                      | Wetland Hydrology Present? Yes No _           |
| Saturation Present?   | Yes No              | o 🟒 Depth (  | inches):                      |   |
| (includes capillary fringe)   |                     |  |                               |   |
| Describe Recorded Data (stream  | m gauge, monitor    | ring well, aerial photos                                       | , previous inspections), if a | vailable:                                     |
|   |                     |  |                               |   |
|   |                     |  |                               |   |
| Remarks:  |                     |  |                               |   |
| nemana.   |                     |  |                               |   |
|   |                     |  |                               |   |
|   |                     |  |                               |   |
|   |                     |  |                               |   |
|   |                     |  |                               |   |
|   |                     |  |                               |   |
|   |                     |  |                               |   |
|   |                     |  |                               |   |

|   |                 |              |        | T   |                 |                |
|---|-----------------|--------------|--------|---|-----------------|----------------|
| Tree Stratum (Plot size:30 ft)                    |                 | Dominant     |        | Dominance Test worksheet:                               |                 |                |
|   | % Cover         | Species?     | Status | Number of Dominant Species That                         | 0               | (A)            |
| 1.  |                 |              |        | Are OBL, FACW, or FAC:                                  |                 |                |
| 2.  |                 |              |        | Total Number of Dominant Species Across All Strata:     | 2               | (B)            |
| 3   |                 |              |        |   |                 | <del></del>    |
| 4   |                 |              |        | Percent of Dominant Species That Are OBL, FACW, or FAC: | 0               | (A/B)          |
| 5.  |                 |              |        |   |                 | <del></del>    |
| 6.  |                 |              |        | Prevalence Index worksheet:                             | N.A. alatinala  | D              |
| 7.  |                 |              |        | Total % Cover of:                                       | <u>Multiply</u> | -              |
|   | 0               | = Total Cove | er     | OBL species 0   | x 1 =           | 0              |
| Sapling/Shrub Stratum (Plot size:15 ft)           |                 | -            |        | FACW species 0  | x 2 =           | 0              |
|   |                 |              |        | FAC species 17  | x 3 =           | 51             |
|   |                 |              |        | FACU species 72   | x 4 =           | 288            |
| 3.  |                 |              |        | - UPL species 5   | x 5 =           | 25             |
|   |                 |              |        | Column Totals 94  | (A)             | 364 (B)        |
| 4.  |                 |              |        | Prevalence Index = B/A =                                | 3.9             |                |
| 5   |                 |              |        | Hydrophytic Vegetation Indicators:                      |                 |                |
| 6   |                 |              |        | 1- Rapid Test for Hydrophytic                           | Vegetation      | า              |
| 7   |                 |              |        | 2 - Dominance Test is > 50%                             | 0               |                |
|   | 0               | = Total Cove | er     | 3 - Prevalence Index is $\leq 3.0^{\circ}$              |                 |                |
| <u>Herb Stratum</u> (Plot size: <u>5 ft</u> )     |                 |              |        | 4 - Morphological Adaptations                           | 1 (Provide      | sunnorting     |
| 1. Solidago canadensis                            | 40              | Yes          | FACU   | data in Remarks or on a separate sl                     |                 | Supporting     |
| 2. Rubus allegheniensis                           | 20              | Yes          | FACU   | - Problematic Hydrophytic Vege                          |                 | xplain)        |
| 3. Galium mollugo                                 | 12              | No           | FACU   | - Indicators of hydric soil and wetlar                  |                 | -              |
| 4. Apocynum cannabinum                            | 10              | No           | FAC    | present, unless disturbed or proble                     | -               | 8,             |
| 5. Euthamia graminifolia                          | 7               | No           | FAC    | Definitions of Vegetation Strata:                       |                 |                |
| 6. Daucus carota                                  | 5               | No           | UPL    | Tree – Woody plants 3 in. (7.6 cm) o                    | r more in       | diameter at    |
| 7.  |                 |              | -      | breast height (DBH), regardless of h                    |                 | didifficter de |
| 8.  |                 |              |        | Sapling/shrub – Woody plants less t                     | _               | DBH and        |
| 9.  | <del></del>     |              |        | greater than or equal to 3.28 ft (1 m                   |                 |                |
| 10  |                 |              |        | Herb – All herbaceous (non-woody)                       |                 | gardless of    |
|   |                 |              |        | size, and woody plants less than 3.2                    |                 | 0              |
| 11.   |                 |              |        | Woody vines – All woody vines grea                      |                 | .28 ft in      |
| 12  |                 |              |        | height.   |                 |                |
|   | 94              | = Total Cove | er     | Hydrophytic Vegetation Present?                         | Vac 1           | No. /          |
| Woody Vine Stratum (Plot size: 30 ft )            |                 |              |        | Trydrophydic vegetadon i resent:                        | 1631            | 10 <u>v</u>    |
| 1   |                 |              |        | -   |                 |                |
| 2.  |                 |              |        | _   |                 |                |
| 3.  |                 |              |        | _   |                 |                |
| 4   |                 |              |        | _   |                 |                |
|   | 0               | = Total Cove | er     |   |                 |                |
| Remarks: (Include photo numbers here or on a seg  | varate cheet \  |              |        |   |                 |                |
| remarks. (include prioto numbers here or on a sep | di ate sileet.) |              |        |   |                 |                |
|   |                 |              |        |   |                 |                |
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|   |                 |              |        |   |                 |                |
|   |                 |              |        |   |                 |                |

|               | cription: (Describe t       | o the de  |                  |        |                   | indicato         | r or confirm the                      | absence o                | f indicators.)                                  |
|---------------|-----------------------------|-----------|------------------|--------|-------------------|------------------|---------------------------------------|--------------------------|---|
| Depth _       | Matrix                      |           | Redox            | Feat   | tures             |                  |                                       |                          |   |
| (inches)      | Color (moist)               | %         | Color (moist)    | %      | Type <sup>1</sup> | Loc <sup>2</sup> | Texture                               |                          | Remarks   |
| 0 - 18        | 10YR 3/3                    | 100       |                  |        |                   |                  | Loam                                  |                          |   |
|               |                             |           |                  |        |                   |                  |                                       |                          |   |
|               |                             |           |                  | _      |                   |                  |                                       |                          |   |
| l             |                             |           |                  |        |                   |                  |                                       |                          |   |
|               |                             |           |                  | _      |                   |                  |                                       |                          |   |
|               |                             |           |                  |        |                   |                  |                                       |                          |   |
|               |                             |           |                  | _      |                   |                  |                                       |                          |   |
|               |                             |           |                  |        |                   |                  |                                       |                          |   |
|               |                             |           |                  |        |                   |                  |                                       |                          |   |
|               |                             |           |                  |        |                   |                  |                                       |                          |   |
|               |                             |           |                  | _      |                   |                  |                                       |                          |   |
|               |                             |           |                  | _      |                   |                  |                                       |                          |   |
|               |                             |           |                  | _      |                   |                  |                                       |                          |   |
|               |                             |           |                  |        |                   |                  |                                       |                          |   |
| ¹Type: C = C  | oncentration, D = I         | Depletio  | n, RM = Reduced  | Mat    | rix, MS =         | Masked           | Sand Grains. 2                        | <sup>2</sup> Location: I | PL = Pore Lining, M = Matrix.                   |
| Hydric Soil I | ndicators:                  |           |                  |        |                   |                  |                                       | Indicato                 | ors for Problematic Hydric Soils <sup>3</sup> : |
| Histosol      | (A1)                        |           | Polyvalue Bel    | ow S   | urface (S         | 88) <b>(LRR</b>  | R, MLRA 149B)                         | 2 cr                     | n Muck (A10) <b>(LRR K, L, MLRA 149B)</b>       |
| Histic Ep     | oipedon (A2)                |           | Thin Dark Sur    | face   | (S9) (LRF         | R R, MLR         | A 149B)                               |                          | st Prairie Redox (A16) (LRR K, L, R)            |
| Black Hi      | stic (A3)                   |           | Loamy Mucky      | / Mir  | eral (F1)         | (LRR K,          | L)                                    |                          | n Mucky Peat or Peat (S3) (LRR K, L, R)         |
| Hydroge       | en Sulfide (A4)             |           | Loamy Gleyed     | d Ma   | trix (F2)         |                  |                                       |                          |   |
|               | d Layers (A5)               |           | Depleted Mat     | rix (I | F3)               |                  |                                       |                          | k Surface (S7) (LRR K, L)                       |
|               | d Below Dark Surfa          |           |                  |        |                   |                  |                                       | -                        | value Below Surface (S8) (LRR K, L)             |
|               | ark Surface (A12)           |           | Depleted Dar     |        |                   | )                |                                       |                          | n Dark Surface (S9) (LRR K, L)                  |
|               | lucky Mineral (S1)          |           | Redox Depre      |        |                   |                  |                                       |                          | -Manganese Masses (F12) (LRR K, L, R)           |
|               | ileyed Matrix (S4)          |           |                  |        | (,                |                  |                                       | Pied                     | lmont Floodplain Soils (F19) (MLRA 149B)        |
| -             | edox (S5)                   |           |                  |        |                   |                  |                                       | Mes                      | sic Spodic (TA6) <b>(MLRA 144A, 145, 149B)</b>  |
| _             |                             |           |                  |        |                   |                  |                                       | Red                      | Parent Material (F21)                           |
|               | d Matrix (S6)               |           |                  |        |                   |                  |                                       | Ver                      | / Shallow Dark Surface (TF12)                   |
| Dark Su       | rface (S7) <b>(LRR R, M</b> | ILRA 149  | 9B)              |        |                   |                  |                                       | Oth                      | er (Explain in Remarks)                         |
| 3Indicators   | of hydrophytic veg          | etation a | and wetland hydr | olog   | y must b          | e preser         | nt, unless disturb                    | bed or prob              | plematic.                                       |
| -             | _ayer (if observed):        |           | ,                |        | ,                 | T                | · · · · · · · · · · · · · · · · · · · |                          |   |
|               | Type:                       |           | None             |        |                   | Hydric           | Soil Present?                         | v                        | es No _ <b>_</b> _                              |
|               |                             |           | None             |        |                   | Пуштс            | Son Present:                          | 1                        | es NO/_   |
|               | Depth (inches):             |           |                  |        |                   |                  |                                       |                          |   |
| Remarks:      |                             |           |                  |        |                   |                  |                                       |                          |   |
|               |                             |           |                  |        |                   |                  |                                       |                          |   |
|               |                             |           |                  |        |                   |                  |                                       |                          |   |
|               |                             |           |                  |        |                   |                  |                                       |                          |   |
|               |                             |           |                  |        |                   |                  |                                       |                          |   |
|               |                             |           |                  |        |                   |                  |                                       |                          |   |
|               |                             |           |                  |        |                   |                  |                                       |                          |   |
|               |                             |           |                  |        |                   |                  |                                       |                          |   |
|               |                             |           |                  |        |                   |                  |                                       |                          |   |
|               |                             |           |                  |        |                   |                  |                                       |                          |   |
|               |                             |           |                  |        |                   |                  |                                       |                          |   |
|               |                             |           |                  |        |                   |                  |                                       |                          |   |
|               |                             |           |                  |        |                   |                  |                                       |                          |   |
|               |                             |           |                  |        |                   |                  |                                       |                          |   |
|               |                             |           |                  |        |                   |                  |                                       |                          |   |
|               |                             |           |                  |        |                   |                  |                                       |                          |   |
|               |                             |           |                  |        |                   |                  |                                       |                          |   |
| ]             |                             |           |                  |        |                   |                  |                                       |                          |   |
| ]             |                             |           |                  |        |                   |                  |                                       |                          |   |
| ]             |                             |           |                  |        |                   |                  |                                       |                          |   |
| ]             |                             |           |                  |        |                   |                  |                                       |                          |   |
| ]             |                             |           |                  |        |                   |                  |                                       |                          |   |
|               |                             |           |                  |        |                   |                  |                                       |                          |   |



Photo of Sample Plot North



Photo of Sample Plot East



Photo of Sample Plot West



| Project/Site: Flat Creek Solar Pro  | ject <u>Ci</u>  | ty/County: Spraker   | s, Montgomery County   | <u>/                                    </u>  | Sampling Date: 2021   | 1-Sept-15         |
|---|---|--|--|---|---|-------------------|
| Applicant/Owner: SunEast  |   |  | State: NY  | Sa  | mpling Point: W-NSI   | D-24_PEM-1        |
| nvestigator(s): Nick DeJohn, A  | bi Light  |  | Section, Township,   | Range: NA   |   |                   |
| andform (hillslope, terrace, etc.)  | : Channel   | Loc  | al relief (concave, conv   | /ex, none): C   | oncave  | Slope (%): 0 to 1 |
| Subregion (LRR or MLRA): L  | RR L  |  | Lat: 42.845010473  | 34 Long: -7   | 4.5167336334  | Datum: WGS84      |
| Soil Map Unit Name: Fluvaque  | ents, loamy   |  |  |   | NWI classification  | <u> </u>          |
| Are climatic/hydrologic condition   | s on the site typical fo  | r this time of year?   | Yes 🟒 No   | (If no, e   | xplain in Remarks.)   |                   |
| Are Vegetation, Soil,   |   | significantly disturl  |  |   | •   | es No             |
| Are Vegetation, Soil,   | or Hydrology  | naturally problema   | atic? (If needed,  | explain any a   | inswers in Remarks.)  |                   |
| SUMMARY OF FINDINGS – A   | attach site map sho   | owing sampling p   | point locations, trai  | nsects, imp   | ortant features, e  | tc.               |
| Hydrophytic Vegetation Present  |   | No   | ·  | · ·   |   |                   |
| Hydric Soil Present?  | Yes   | No Is t  | he Sampled Area withi  | in a Wetland?   | Yes _   | ✓_ No             |
| Wetland Hydrology Present?  | Yes   | No If v  | es, optional Wetland S   | ite ID:   | W-NS  | 5D-24             |
|   |   |  |  |   |   |                   |
| Wetland Hydrology Indicators:  Primary Indicators (minimum of  Surface Water (A1)  High Water Table (A2)  Saturation (A3)  Water Marks (B1)  Sediment Deposits (B2)  Drift Deposits (B3)  Algal Mat or Crust (B4)  Iron Deposits (B5)  Inundation Visible on Aerial I  Sparsely Vegetated Concave | W.<br>Aq<br>Ma<br>Hy<br>Ox<br>Pr.<br>Re<br>Th<br>magery (B7) Ot | ater-Stained Leaves<br>Juatic Fauna (B13)<br>arl Deposits (B15)<br>rdrogen Sulfide Odo | or (C1)<br>s on Living Roots (C3)<br>Iron (C4)<br>n in Tilled Soils (C6) | Surface S Drainage Moss Trir Dry-Seas Crayfish Saturatio Stunted of Geomory Shallow A | ndicators (minimum of<br>foil Cracks (B6)<br>Patterns (B10)<br>m Lines (B16)<br>on Water Table (C2)<br>Burrows (C8)<br>on Visible on Aerial Im<br>or Stressed Plants (D'<br>phic Position (D2)<br>Aquitard (D3)<br>ographic Relief (D4)<br>tral Test (D5) | nagery (C9)       |
| Field Observations:   |   |  |  |   | au rese (DS)  |                   |
| Surface Water Present?  | Yes No <b>_</b> ✓   | Depth (inc   | hes):  |   |   |                   |
| Water Table Present?  | Yes _ ✓ No  | Depth (inc   | · ·  | - <br>Wetland Hvd   | drology Present?  | Yes No            |
|   |   |  | •  | -   | ii ology i resenti  | . 25              |
| Saturation Present?   | Yes No  | Depth (inc   | hes): 0  | -   |   |                   |
| (includes capillary fringe)   |   |  |  |   |   | <del></del>       |
| Describe Recorded Data (stream  | gauge, monitoring we  | ен, аена рносоз, рг  | evious irispections), ii d   | avallable.  |   |                   |
|   |   |  |  |   |   |                   |

| Tree Stratum (Plot size: <u>30 ft</u> )<br>1.  |    | Dominant<br>Species? | Indicator<br>Status | Number of Dominant<br>Are OBL, FACW, or FA    | t Species That      | 1                                      | (A)          |
|--|----|----------------------|---------------------|---|---------------------|--|--------------|
| 2.   |    |                      |                     | Total Number of Don                           |                     | 1                                      | (B)          |
| 3.   |    |                      |                     | Across All Strata:                            |                     |  | (b)          |
| 4.   |    |                      |                     | Percent of Dominant                           | '                   | 100                                    | (A/B)        |
| 5.   |    |                      |                     | Are OBL, FACW, or FA                          |                     |  |              |
| 6.   |    |                      |                     | Prevalence Index wo                           |                     | N. A. alatina la a F                   | D            |
| 7.   |    |                      |                     | Total % Cove                                  | <u>er oi:</u><br>85 | $\frac{\text{Multiply I}}{\times 1} =$ | 85           |
|  | 0  | = Total Cove         | r                   | FACW species                                  | 0                   | x 2 =                                  | 0            |
| Sapling/Shrub Stratum (Plot size: 15 ft )      |    |                      |                     | FAC species                                   | 0                   | x3=                                    | 0            |
|  |    |                      |                     | - FACU species                                | 0                   | x 4 =                                  | 0            |
| 2.   |    |                      |                     | - UPL species                                 | 0                   | x5=                                    | 0            |
| 3.   |    |                      |                     | - Column Totals                               | 85                  | _                                      |              |
| 1.   |    |                      |                     |   |                     | (A) _                                  | 85 (B)       |
| 5.   |    |                      |                     | •   | Index = B/A =       |  | <del></del>  |
| 5.   |    |                      |                     | Hydrophytic Vegetati                          |                     |  |              |
| 7.   |    |                      |                     | 1- Rapid Test for                             |                     | egetation/                             |              |
|  | 0  | = Total Cove         | r                   | 2 - Dominance                                 |                     |  |              |
| <u>-lerb Stratum</u> (Plot size: <u>5 ft</u> ) |    | _                    |                     | ✓ 3 - Prevalence Ir                           |                     |  |              |
| 1. Leersia oryzoides                           | 60 | Yes                  | OBL                 | 4 - Morphologic                               |                     |  | supporting   |
| 2. <i>Lythrum salicaria</i>                    | 15 | No                   | OBL                 | data in Remarks or o                          |                     | -                                      | -1-1-1       |
| 3. Typha angustifolia                          | 10 | No                   | OBL                 | Problematic Hy                                | . , .               |  |              |
| 1.   |    |                      |                     | Indicators of hydric spresent, unless distu   |                     |  | gy must be   |
| 5,   |    |                      |                     | -   |                     | IIIauc                                 |              |
| 5.   |    |                      |                     | Definitions of Vegeta                         |                     | r mara in a                            | liameter at  |
| 7.   |    |                      |                     | Tree – Woody plants :<br>breast height (DBH), |                     |  | nameter at   |
| 3.   |    |                      |                     | Sapling/shrub - Wood                          | _                   | _                                      | BH and       |
| ).   |    |                      |                     | greater than or equa                          |                     |  | Dirana       |
|  |    |                      |                     | Herb – All herbaceou                          |                     |  | ardless of   |
| 10   |    |                      |                     | size, and woody plan                          | -                   |  | ,a. a.e.s o. |
| 11   |    |                      |                     | Woody vines - All wo                          |                     |  | 28 ft in     |
| 12   |    | Tatal Carre          | _                   | height.                                       | , 0                 |  |              |
| W 1 N 5  | 85 | = Total Cove         | er .                | Hydrophytic Vegetat                           | ion Present? \      | es ./ N                                | 0            |
| Noody Vine Stratum (Plot size: <u>30 ft</u> )  |    |                      |                     | yu. opyue regette                             |                     |  |              |
|  |    |                      |                     | -   |                     |  |              |
| <u> </u>                                       |    |                      |                     | =   |                     |  |              |
| 3  |    |                      |                     | -   |                     |  |              |
|  |    | = Total Cove         |                     | -   |                     |  |              |
| 4  | 0  |                      |                     |   |                     |  |              |

| Depth  | Matrix              | o the a       | Redox  |  |   | indicator              | or confirm the a            | bsence of indicato   | rs.)  |
|--|---------------------|---------------|--|--|---|------------------------|-----------------------------|--|---|
| (inches)   | Color (moist)       | %             | Color (moist)  | %  | Type <sup>1</sup>   | Loc²                   | Text                        | ure  | Remarks   |
| 0 - 20   | 10YR 3/1            | 95            | 7.5YR 4/6  | 5  | С   | M                      | Silty Cla                   |  |   |
|  |                     |               |  |  |   |                        |                             |  |   |
|  |                     |               |  |  |   |                        |                             |  |   |
|  |                     |               |  |  |   |                        |                             |  |   |
|  |                     |               |  |  |   |                        |                             |  |   |
|  |                     | - —           |  | _  |   |                        |                             |  |   |
| <br>¹Type: C = C   | oncentration, D = [ | <br>Depletion | on, RM = Reduced   | <br>l Mat  | rix, MS =   | <br>Masked             | Sand Grains. <sup>2</sup> L | ocation: PL = Pore   | Lining, M = Matrix.   |
| Hydric Soil I  | ndicators:          |               |  |  |   |                        |                             | Indicators for Pr  | oblematic Hydric Soils³:  |
| Black His Hydroge Stratified Depleted Thick Da Sandy M Sandy G Sandy R J Stripped Dark Sun | ipedon (A2)         | ILRA 14       | Thin Dark Su Loamy Muck Loamy Gleye Depleted Ma    Yedox Dark Su Depleted Da Redox Depre | rface<br>y Mir<br>d Ma<br>itrix (l<br>Surfa<br>rk Su<br>essior | (S9) (LRF<br>leral (F1)<br>trix (F2)<br>F3)<br>ce (F6)<br>rface (F7)<br>ns (F8) | R R, MLR.<br>(LRR K, I | .)                          | Coast Prairie 5 cm Mucky Dark Surface Polyvalue Be Thin Dark Su Iron-Mangar Piedmont Fle Mesic Spodie Red Parent N Very Shallow Other (Expla | elow Surface (S8) (LRR K, L)  urface (S9) (LRR K, L)  urface (S9) (LRR K, L)  urface (S9) (LRR K, L, R)  urface (Masses (F12) (MLRA 149B)  urface (TA6) (MLRA 144A, 145, 149B)  urface (TF12) |
|  | ayer (if observed): |               | <u> </u>   |  | ,   | 1                      | ,                           |  |   |
|  | Type:               |               | None   |  |   | Hydric                 | Soil Present?               | ,  | Yes/_ No  |
|  | Depth (inches):     |               |  | -  |   |                        |                             |  |   |
| Remarks:   |                     |               |  |  |   |                        |                             |  |   |

Hydrology Photos



Soil Photos



Photo of Sample Plot North



Photo of Sample Plot South



| Project/Site: Flat Creek Solar Pro       | ject                 | City/County: Can   | ajoharie, Montgomery Cou       | inty        | Sampling Date: 20                                   | 21-Sept-15        |
|--|----------------------|--|--------------------------------|-------------|---|-------------------|
| Applicant/Owner: SunEast                 |                      |  | State: NY                      |             | Sampling Point: W-N                                 | SD-24_UPL-1       |
| Investigator(s): Nick DeJohn, A          | bi Light             |  | Section, Township,             | Range: NA   | 4   |                   |
| Landform (hillslope, terrace, etc.)      | : Flat               |  | Local relief (concave, conv    | ex, none):_ | Undulating  | Slope (%): 0 to 1 |
| Subregion (LRR or MLRA):                 | RR L                 |  | Lat: 42.844809307              | '8 Long:_   | -74.516853327                                       | Datum: WGS84      |
| Soil Map Unit Name: Fluvaque             | nts, loamy           |  |                                |             | NWI classificatio                                   | n:                |
| Are climatic/hydrologic condition        | s on the site typica | l for this time of ye  | ar? Yes <u>✓</u> No            | (If no      | , explain in Remarks.)                              |                   |
| Are Vegetation, Soil,                    | or Hydrology _       | significantly dis  | sturbed? Are "Norma            | al Circumst | ances" present?                                     | Yes No            |
| Are Vegetation, Soil,                    | or Hydrology _       | naturally probl  | ematic? (If needed,            | explain any | y answers in Remarks                                | .)                |
| SUMMARY OF FINDINGS – A                  | -                    | showing sampli   | ng point locations, trar       | nsects, im  | portant features,                                   | etc.              |
| Hydric Soil Present?                     | Yes _                | No   | Is the Sampled Area withi      | n a Wetland | d? Yes  | s No⁄_            |
| Wetland Hydrology Present?               | Yes_                 | No <b>/</b> _  | If yes, optional Wetland Si    | ite ID:     |   |                   |
|  |                      |  |                                |             |   |                   |
| HYDROLOGY  Wetland Hydrology Indicators: |                      |  |                                |             |   |                   |
| Primary Indicators (minimum of           | one is required; ch  | neck all that apply)   |                                | Secondary   | Indicators (minimum                                 | of two required)  |
| •  | ·                    |  | ···· (DO)                      | -           | e Soil Cracks (B6)                                  | •                 |
| Surface Water (A1) High Water Table (A2) |                      | <sub>_</sub> Water-Stained Lea<br><sub>_</sub> Aquatic Fauna (B1 |                                | Draina      | ge Patterns (B10)                                   |                   |
| Saturation (A3)                          |                      | _ Aquatic Fauria (B1<br>_ Marl Deposits (B1                      |                                | Moss T      | rim Lines (B16)                                     |                   |
| Water Marks (B1)                         |                      | Hydrogen Sulfide   |                                | -           | ason Water Table (C2)                               | )                 |
| Sediment Deposits (B2)                   | _                    |  | neres on Living Roots (C3)     | -           | h Burrows (C8)                                      | (60)              |
| Drift Deposits (B3)                      |                      | Presence of Redu   | ced Iron (C4)                  |             | tion Visible on Aerial I<br>d or Stressed Plants (l | •                 |
| Algal Mat or Crust (B4)                  |                      |  | ction in Tilled Soils (C6)     |             | orphic Position (D2)                                | D1)               |
| Iron Deposits (B5)                       |                      | _ Thin Muck Surface  |                                |             | w Aquitard (D3)                                     |                   |
| Inundation Visible on Aerial I           |                      | Other (Explain in I  | Remarks)                       |             | opographic Relief (D4                               | )                 |
| Sparsely Vegetated Concave               | Surrace (B8)         |  |                                |             | eutral Test (D5)                                    |                   |
| Field Observations:                      |                      |  |                                |             |   |                   |
| Surface Water Present?                   | Yes No _             | ✓ Depth  | (inches):                      |             |   |                   |
| Water Table Present?                     | Yes No               | ✓ Depth  | (inches):                      | Wetland H   | lydrology Present?                                  | Yes No <b>/</b> _ |
| Saturation Present?                      | Yes No               | ✓ Depth  | (inches):                      |             |   |                   |
| (includes capillary fringe)              |                      | - '  | ·                              | -           |   |                   |
| Describe Recorded Data (stream           | gauge, monitoring    | well, aerial photo   | s, previous inspections), if a | available:  |   |                   |
| Sesende necorded bata (stream            | - Baage, monitoring  | 5 Weil, derial prioto.   | s, previous inspections, in c  | avanabic.   |   |                   |
| Remarks:                                 |                      |  |                                |             |   |                   |
|  |                      |  |                                |             |   |                   |
|  |                      |  |                                |             |   |                   |
|  |                      |  |                                |             |   |                   |
|  |                      |  |                                |             |   |                   |
|  |                      |  |                                |             |   |                   |
|  |                      |  |                                |             |   |                   |
|  |                      |  |                                |             |   |                   |

| · · · · · · · · · · · · · · · · · · ·            |               |             |        | To  |                       |                |
|--|---------------|-------------|--------|---|-----------------------|----------------|
| <u>Tree Stratum</u> (Plot size: <u>30 ft</u> )   |               | Dominant    |        | Dominance Test worksheet:                           |                       |                |
|  | % Cover       | Species?    | Status | Number of Dominant Species That                     | 0                     | (A)            |
| 1  |               |             |        | Are OBL, FACW, or FAC:                              |                       |                |
| 2  |               |             |        | Total Number of Dominant Species Across All Strata: | 3                     | (B)            |
| 3  |               |             |        | Percent of Dominant Species That                    |                       | <del></del>    |
| 4  |               |             |        | - Are OBL, FACW, or FAC:                            | 0                     | (A/B)          |
| 5.   |               |             |        |   |                       |                |
| 6.   |               |             |        | Prevalence Index worksheet:                         | N. de . de See de . e | D              |
| 7.   |               |             |        | Total % Cover of:                                   | Multiply              | -              |
|  |               | = Total Cov | er     | OBL species 0                                       | x 1 =                 | 0              |
| Sapling/Shrub Stratum (Plot size:15 ft)          | -             |             |        | FACW species 0                                      | x 2 =                 | 0              |
| 1  |               |             |        | FAC species 0                                       | x 3 =                 | 0              |
|  |               |             |        | FACU species 55                                     | x 4 =                 | 220            |
| 2  |               |             |        | - UPL species 0                                     | x 5 =                 | 0              |
|  | <del></del>   |             |        | Column Totals 55                                    | (A)                   | 220 (B)        |
| 4.   | <del></del>   |             |        | Prevalence Index = B/A =                            | 4                     |                |
| 5.   |               |             |        | Hydrophytic Vegetation Indicators:                  |                       |                |
| 6  |               |             |        | 1- Rapid Test for Hydrophytic \                     | /egetation            | 1              |
| 7  |               |             |        | 2 - Dominance Test is > 50%                         | .0                    |                |
|  | 0             | = Total Cov | er     | 3 - Prevalence Index is ≤ 3.0¹                      |                       |                |
| <u>Herb Stratum</u> (Plot size: <u>5 ft</u> )    |               |             |        | 4 - Morphological Adaptations                       | ¹ (Provide            | sunnorting     |
| 1. <i>Poaceae</i>                                | 40            | Yes         | NI     | data in Remarks or on a separate sh                 |                       | Supporting     |
| 2. Solidago canadensis                           | 35            | Yes         | FACU   | - Problematic Hydrophytic Vege                      |                       | xplain)        |
| 3. Parthenocissus quinquefolia                   | 20            | Yes         | FACU   | ¹Indicators of hydric soil and wetlan               |                       | -              |
| 4.   |               |             |        | present, unless disturbed or proble                 | -                     | 8,             |
| 5.   |               |             |        | Definitions of Vegetation Strata:                   |                       |                |
| 6.   |               |             |        | Tree – Woody plants 3 in. (7.6 cm) o                | r more in             | diameter at    |
| 7.   |               |             |        | breast height (DBH), regardless of h                |                       | didifficter de |
| 8.   |               |             |        | Sapling/shrub – Woody plants less t                 | _                     | DBH and        |
| 9.   |               |             |        | greater than or equal to 3.28 ft (1 m               |                       | DDIT GITG      |
| 10   |               |             |        | Herb – All herbaceous (non-woody)                   |                       | gardless of    |
|  | <del></del>   |             |        | size, and woody plants less than 3.2                |                       | ga. a.c.s c.   |
| 11.  |               |             |        | Woody vines – All woody vines grea                  |                       | .28 ft in      |
| 12   |               |             |        | height.   |                       |                |
|  | 95            | = Total Cov | er     |   | Vac 1                 | ulo            |
| Woody Vine Stratum (Plot size: 30 ft )           |               |             |        | Hydrophytic Vegetation Present?                     | res r                 | NO <u>~</u>    |
| 1  |               |             |        | _   |                       |                |
| 2  |               |             |        | _   |                       |                |
| 3  |               |             |        |   |                       |                |
| 4.   |               |             |        |   |                       |                |
|  | 0             | = Total Cov | er     |   |                       |                |
|  |               |             |        |   |                       |                |
| Remarks: (Include photo numbers here or on a sep | arate sheet.) |             |        |   |                       |                |
|  |               |             |        |   |                       |                |
|  |               |             |        |   |                       |                |
|  |               |             |        |   |                       |                |
|  |               |             |        |   |                       |                |
|  |               |             |        |   |                       |                |
|  |               |             |        |   |                       |                |
|  |               |             |        |   |                       |                |

| Profile Desc  | ription: (Describe          | to the de |                  |        |                   | indicato         | r or confirm the a          | absence of in  | dicators.)                                  |
|---------------|-----------------------------|-----------|------------------|--------|-------------------|------------------|-----------------------------|----------------|---|
| Depth _       | Matrix                      |           | Redox            | Feat   | ures              |                  |                             |                |   |
| (inches)      | Color (moist)               | %         | Color (moist)    | %      | Type <sup>1</sup> | Loc <sup>2</sup> | Texture                     | <b>!</b>       | Remarks                                     |
| 0 - 20        | 10YR 2/2                    | 100       |                  |        |                   |                  | Silt Loan                   | <br>n          |   |
|               |                             | · ·       |                  | _      |                   |                  |                             |                |   |
|               |                             |           |                  | _      |                   |                  |                             |                |   |
| -             |                             |           |                  | _      |                   |                  | -                           |                |   |
|               |                             | · ·       |                  | _      |                   |                  |                             |                |   |
|               |                             |           |                  | _      |                   |                  |                             |                |   |
|               |                             |           |                  | _      |                   |                  |                             |                |   |
|               |                             |           |                  | _      |                   |                  |                             |                |   |
|               |                             |           |                  |        |                   |                  |                             |                |   |
|               |                             |           |                  |        |                   |                  |                             |                |   |
| -             |                             |           |                  | _      |                   |                  |                             |                |   |
|               |                             |           |                  | _      |                   |                  |                             |                |   |
|               |                             | · ·       |                  | _      |                   |                  |                             |                |   |
|               |                             |           |                  | _      |                   |                  |                             |                |   |
| ¹Type: C = C  | oncentration, D =           | Depletio  | n, RM = Reduced  | Mat    | rix, MS =         | Masked           | Sand Grains. <sup>2</sup> L | Location: PL : | = Pore Lining, M = Matrix.                  |
| Hydric Soil I | ndicators:                  |           |                  |        |                   |                  |                             | Indicators     | for Problematic Hydric Soils <sup>3</sup> : |
| Histosol      | (A1)                        |           | Polyvalue Bel    | ow S   | urface (S         | 8) <b>(LRR</b>   | R, MLRA 149B)               | 2 cm N         | luck (A10) <b>(LRR K, L, MLRA 149B)</b>     |
| Histic Ep     | oipedon (A2)                |           | Thin Dark Sur    | face   | (S9) (LRF         | R R, MLR         | A 149B)                     |                | Prairie Redox (A16) (LRR K, L, R)           |
| Black Hi      | stic (A3)                   |           | Loamy Mucky      | Mir    | eral (F1)         | (LRR K,          | L)                          |                | fucky Peat or Peat (S3) (LRR K, L, R)       |
| Hydroge       | en Sulfide (A4)             |           | Loamy Gleyed     | d Ma   | trix (F2)         |                  |                             |                | urface (S7) <b>(LRR K, L)</b>               |
| Stratifie     | d Layers (A5)               |           | Depleted Mat     | rix (I | F3)               |                  |                             |                | lue Below Surface (S8) (LRR K, L)           |
| Deplete       | d Below Dark Surfa          | ace (A11) | Redox Dark S     | urfa   | ce (F6)           |                  |                             | -              | ark Surface (S9) (LRR K, L)                 |
| Thick Da      | rk Surface (A12)            |           | Depleted Dar     | k Su   | rface (F7)        | )                |                             |                | anganese Masses (F12) (LRR K, L, R)         |
| Sandy M       | lucky Mineral (S1)          |           | Redox Depre      | ssior  | ıs (F8)           |                  |                             |                |   |
| Sandy G       | leyed Matrix (S4)           |           |                  |        |                   |                  |                             |                | ont Floodplain Soils (F19) (MLRA 149B)      |
| Sandy R       | edox (S5)                   |           |                  |        |                   |                  |                             |                | Spodic (TA6) (MLRA 144A, 145, 149B)         |
| _             | Matrix (S6)                 |           |                  |        |                   |                  |                             |                | rent Material (F21)                         |
|               | rface (S7) <b>(LRR R, N</b> | /I RΔ 1// | AR)              |        |                   |                  |                             | -              | hallow Dark Surface (TF12)                  |
| Dark 3u       | riace (37) (Litti it, iv    | ILIVA 14. | ,,,              |        |                   |                  |                             | Other          | (Explain in Remarks)                        |
| 3Indicators   | of hydrophytic veg          | etation a | and wetland hydr | olog   | y must b          | e preser         | nt, unless disturbe         | ed or problei  | matic.                                      |
| Restrictive L | ayer (if observed):         |           |                  |        |                   |                  |                             |                | _   |
|               | Type:                       |           | None             |        |                   | Hvdric           | Soil Present?               | Υ              | es No⁄_                                     |
|               | Depth (inches):             | -         |                  |        |                   | '                |                             |                |   |
|               | Deptir (inches).            |           |                  |        |                   |                  |                             |                |   |
| Remarks:      |                             |           |                  |        |                   |                  |                             |                |   |
|               |                             |           |                  |        |                   |                  |                             |                |   |
|               |                             |           |                  |        |                   |                  |                             |                |   |
|               |                             |           |                  |        |                   |                  |                             |                |   |
|               |                             |           |                  |        |                   |                  |                             |                |   |
|               |                             |           |                  |        |                   |                  |                             |                |   |
|               |                             |           |                  |        |                   |                  |                             |                |   |
|               |                             |           |                  |        |                   |                  |                             |                |   |
|               |                             |           |                  |        |                   |                  |                             |                |   |
|               |                             |           |                  |        |                   |                  |                             |                |   |
|               |                             |           |                  |        |                   |                  |                             |                |   |
|               |                             |           |                  |        |                   |                  |                             |                |   |
|               |                             |           |                  |        |                   |                  |                             |                |   |
|               |                             |           |                  |        |                   |                  |                             |                |   |
|               |                             |           |                  |        |                   |                  |                             |                |   |
|               |                             |           |                  |        |                   |                  |                             |                |   |
|               |                             |           |                  |        |                   |                  |                             |                |   |
|               |                             |           |                  |        |                   |                  |                             |                |   |
|               |                             |           |                  |        |                   |                  |                             |                |   |
| ]             |                             |           |                  |        |                   |                  |                             |                |   |
| ]             |                             |           |                  |        |                   |                  |                             |                |   |
|               |                             |           |                  |        |                   |                  |                             |                |   |



Photo of Sample Plot North



Photo of Sample Plot East



Photo of Sample Plot West



| Project/Site: Flat Creek Solar Pro                                      | ject           |       | City/County: Cana      | ajoharie, Montgomery Cou        | inty <b>Sai</b>           | mpling Date: 2021-                  | Sept-15           |  |  |
|---|----------------|-------|------------------------|---------------------------------|---------------------------|-------------------------------------|-------------------|--|--|
| Applicant/Owner: SunEast  |                |       | <u> </u>               | State: NY Sampling Point: W-NSI |                           |                                     |                   |  |  |
| Investigator(s): Nick DeJohn, Al  | oi Light       |       |                        | Section, Township, Range: NA    |                           |                                     |                   |  |  |
| Landform (hillslope, terrace, etc.):                                    | Depres         | sion  |                        | Local relief (concave, conv     | ex, none): Con            | cave :                              | Slope (%): 0 to 1 |  |  |
| Subregion (LRR or MLRA): LF   | RR L           |       |                        | Lat: 42.842924175               | 8 <b>Long:</b> -74.5      | 5166153648 D                        | atum: WGS84       |  |  |
| Soil Map Unit Name: Illion silt l                                       | oam, 3 to 8 p  | erce  | nt slopes              |                                 |                           | NWI classification:                 |                   |  |  |
| Are climatic/hydrologic conditions                                      | on the site t  | ypica | al for this time of ye | ar? Yes <u>✓</u> No             | (If no, exp               | lain in Remarks.)                   |                   |  |  |
| Are Vegetation, Soil,   | or Hydrol      | ogy _ | significantly dis      | sturbed? Are "Norm              | al Circumstance           | s" present? Ye                      | s No              |  |  |
| Are Vegetation, Soil,   | or Hydrol      | ogy _ | naturally probl        | ematic? (If needed,             | explain any ans           | wers in Remarks.)                   |                   |  |  |
|   |                |       |                        |                                 |                           |                                     |                   |  |  |
| SUMMARY OF FINDINGS – A   | ttach site n   | nap   | showing samplir        | ng point locations, tran        | nsects, import            | tant features, et                   | c <b>.</b>        |  |  |
| Hydrophytic Vegetation Present?   |                | Yes _ | ✓_ No                  |                                 |                           |                                     |                   |  |  |
| Hydric Soil Present?  |                | Yes _ | ✓_ No                  | Is the Sampled Area withi       | n a Wetland?              | Yes                                 | <u>∕_</u> No      |  |  |
| Wetland Hydrology Present?  |                | Yes _ | ✓_ No                  | If yes, optional Wetland S      | ite ID:                   | W-NSE                               | D-25              |  |  |
| Remarks: (Explain alternative pro                                       |                |       |                        |                                 |                           |                                     |                   |  |  |
|   |                |       |                        |                                 |                           |                                     |                   |  |  |
| HYDROLOGY  Wetland Hydrology Indicators: Primary Indicators (minimum of | one is require | ed; c | heck all that apply)   |                                 | -                         | cators (minimum of                  | f two required)   |  |  |
| Surface Water (A1)  |                |       | _ Water-Stained Lea    | ives (B9)                       | Surface Soil              |                                     |                   |  |  |
| High Water Table (A2)   |                |       | _ Aquatic Fauna (B1    |                                 | Drainage Pa               |                                     |                   |  |  |
| Saturation (A3)   |                |       | Marl Deposits (B1      |                                 | Moss Trim I               |                                     |                   |  |  |
| Water Marks (B1)  |                |       | _ Hydrogen Sulfide     | Odor (C1)                       | Ory-season<br>Crayfish Bu | Water Table (C2)                    |                   |  |  |
| Sediment Deposits (B2)  |                | _     | •                      | neres on Living Roots (C3)      | -                         | rrows (Co)<br>Visible on Aerial Ima | agery (C9)        |  |  |
| Drift Deposits (B3)   |                | _     | _ Presence of Reduc    |                                 |                           | Stressed Plants (D1)                | 0 ,               |  |  |
| Algal Mat or Crust (B4)   |                | _     |                        | tion in Tilled Soils (C6)       | Geomorphi                 |                                     | ,                 |  |  |
| Iron Deposits (B5)  | (DZ)           | _     | _ Thin Muck Surface    |                                 | Shallow Aqı               |                                     |                   |  |  |
| Inundation Visible on Aerial I  | 0 ,            | _     | _ Other (Explain in F  | Remarks)                        |                           | raphic Relief (D4)                  |                   |  |  |
| Sparsely Vegetated Concave S  | Surface (Do)   |       |                        |                                 | ∕ FAC-Neutra              | l Test (D5)                         |                   |  |  |
| Field Observations:   |                |       |                        |                                 |                           |                                     |                   |  |  |
| Surface Water Present?  | Yes            | No_   | ✓ Depth (              | (inches):                       | _                         |                                     |                   |  |  |
| Water Table Present?  | Yes            | No_   | <u>✓</u> Depth (       | (inches):                       | Wetland Hydro             | logy Present?                       | Yes No            |  |  |
| Saturation Present?   | Yes            | No_   | ✓ Depth (              | (inches):                       | _                         |                                     |                   |  |  |
| (includes capillary fringe)   |                |       | ·                      |                                 | -                         |                                     |                   |  |  |
| Describe Recorded Data (stream  | gauge moni     | torin | g well periol photos   | nravious inspactions) if        | available.                |                                     |                   |  |  |
| bescribe recorded bata (stream)   | gaage, mom     | COTT  | g Well, derial priotos | , previous inspections, in t    | avallable.                |                                     |                   |  |  |
| Remarks:  |                |       |                        |                                 |                           |                                     |                   |  |  |
|   |                |       |                        |                                 |                           |                                     |                   |  |  |
|   |                |       |                        |                                 |                           |                                     |                   |  |  |
|   |                |       |                        |                                 |                           |                                     |                   |  |  |
|   |                |       |                        |                                 |                           |                                     |                   |  |  |
|   |                |       |                        |                                 |                           |                                     |                   |  |  |
|   |                |       |                        |                                 |                           |                                     |                   |  |  |
|   |                |       |                        |                                 |                           |                                     |                   |  |  |

|  |           |             |        | 1  |                 | 1           |
|--|-----------|-------------|--------|--|-----------------|-------------|
| <u>Tree Stratum</u> (Plot size: <u>30 ft</u> )       |           | Dominant    |        | Dominance Test worksheet:                              |                 |             |
|  | % Cover   | Species?    | Status | Number of Dominant Species That Are OBL, FACW, or FAC: | 1               | (A)         |
| 1  |           |             |        | Total Number of Dominant Species                       |                 |             |
| 2  |           |             |        | Across All Strata:                                     | ´ 1             | (B)         |
| 4.   |           |             |        | Percent of Dominant Species That                       | 100             | (A /D)      |
|  |           |             |        | Are OBL, FACW, or FAC:                                 | 100             | (A/B)       |
| 5.   |           |             |        | Prevalence Index worksheet:                            |                 |             |
| 6  |           |             |        | Total % Cover of:                                      | Multiply I      | <u>Ву:</u>  |
| 7  |           |             |        | OBL species 90   | x 1 =           | 90          |
| 5  | 0         | = Total Cov | er     | FACW species 5   | x 2 =           | 10          |
| Sapling/Shrub Stratum (Plot size: 15 ft )            |           |             |        | FAC species 0  | x 3 =           | 0           |
| 1  |           |             |        | FACU species 0   | x 4 =           | 0           |
| 2.   |           |             |        | UPL species 0  | x 5 =           | 0           |
| 3  |           |             |        | Column Totals 95                                       | (A)             | 100 (B)     |
| 4  |           |             |        | Prevalence Index = B/A =                               | 1.1             |             |
| 5  |           |             |        | Hydrophytic Vegetation Indicators:                     |                 |             |
| 6  |           |             |        | ✓ 1- Rapid Test for Hydrophytic                        |                 |             |
| 7  |           |             |        | ✓ 2 - Dominance Test is >50%                           | 7 0 0 0 0 0 1 1 |             |
|  | 0         | = Total Cov | er     | $\checkmark$ 3 - Prevalence Index is $\le 3.0^{\circ}$ |                 |             |
| <u>Herb Stratum</u> (Plot size: <u>5 ft</u> )        |           |             |        | 4 - Morphological Adaptation                           | s¹ (Provide «   | supporting  |
| 1. Leersia oryzoides                                 | 80        | Yes         | OBL    | data in Remarks or on a separate s                     |                 | 5apport8    |
| 2. <i>Typha angustifolia</i>                         | 10        | No          | OBL    | Problematic Hydrophytic Veg                            |                 | plain)      |
| 3. <i>Verbena hastata</i>                            | 5         | No          | FACW   | ¹Indicators of hydric soil and wetla                   |                 |             |
| 4  |           |             |        | present, unless disturbed or proble                    |                 |             |
| 5  |           |             |        | Definitions of Vegetation Strata:                      |                 |             |
| 6.   |           |             |        | Tree – Woody plants 3 in. (7.6 cm)                     | or more in d    | liameter at |
| 7.   |           |             |        | breast height (DBH), regardless of                     |                 |             |
| 8.   |           |             |        | Sapling/shrub – Woody plants less                      | than 3 in. D    | BH and      |
| 9.   |           |             |        | greater than or equal to 3.28 ft (1 r                  | n) tall.        |             |
| 10.  |           |             |        | Herb – All herbaceous (non-woody                       | ) plants, reg   | ardless of  |
| 11.  |           |             |        | size, and woody plants less than 3.                    |                 |             |
| 12.  |           |             |        | Woody vines – All woody vines gre                      | ater than 3.2   | 28 ft in    |
|  | 95        | = Total Cov | er     | height.  |                 |             |
| Woody Vine Stratum (Plot size:30 ft)                 | -         | -           |        | Hydrophytic Vegetation Present?                        | Yes N           | 0           |
| 1.   |           |             |        |  |                 |             |
| 2.   |           |             |        |  |                 |             |
| 3.   |           |             |        |  |                 |             |
| 4.   |           |             |        |  |                 |             |
| · ·  | 0         | = Total Cov | er     |  |                 |             |
|  | •         |             |        | _  |                 |             |
| Remarks: (Include photo numbers here or on a separat | e sheet.) |             |        |  |                 |             |
|  |           |             |        |  |                 |             |
|  |           |             |        |  |                 |             |
|  |           |             |        |  |                 |             |
|  |           |             |        |  |                 |             |
|  |           |             |        |  |                 |             |
|  |           |             |        |  |                 |             |
|  |           |             |        |  |                 |             |

| Profile Des | cription: (Describe          | to the de | =                  |       |                   | ndicato   | or confirm the a   | bsence of indicato | ors.)                                 |
|-------------|------------------------------|-----------|--------------------|-------|-------------------|-----------|--------------------|--------------------|---------------------------------------|
| Depth       | Matrix                       |           | Redox              | Feat  | tures             |           |                    |                    |                                       |
| (inches)    | Color (moist)                | %         | Color (moist)      | %     | Type <sup>1</sup> | Loc²      | Text               | ture               | Remarks                               |
| 0 - 4       | 10YR 3/2                     | 100       |                    |       |                   |           | Silty Cla          | y Loam             |                                       |
| 4 - 20      | 2.5Y 3/1                     | 95        | 7.5YR 4/6          | 5     | C                 | M         | Clay L             |                    |                                       |
|             |                              |           |                    | _     |                   |           |                    |                    |                                       |
|             | •                            |           |                    | _     |                   |           |                    | •                  |                                       |
|             |                              |           |                    | _     |                   |           |                    |                    |                                       |
|             |                              |           |                    | _     |                   |           |                    | <u></u>            |                                       |
|             |                              |           |                    | _     |                   |           |                    |                    |                                       |
|             |                              |           |                    | _     |                   |           |                    |                    |                                       |
|             |                              |           |                    | _     |                   |           |                    |                    |                                       |
|             |                              |           |                    |       |                   |           |                    |                    |                                       |
|             |                              |           |                    |       |                   |           |                    |                    |                                       |
|             | •                            |           |                    | _     |                   |           |                    | -                  |                                       |
|             |                              |           |                    | _     |                   |           |                    |                    |                                       |
| 1T C - C    | Composition D.               |           | n DM – Dadwaad     |       |                   |           | Canal Cuaina 21    | tion, DI Doug      | Lining M = Matrix                     |
|             | Concentration, D =           | Depletio  | on, Rivi = Reduced | Mat   | rix, IVIS =       | Masked    | Sand Grains. *L    |                    | Lining, M = Matrix.                   |
| Hydric Soil |                              |           |                    |       | _                 |           |                    | indicators for Pi  | roblematic Hydric Soils³:             |
| Histoso     |                              |           | Polyvalue Bel      |       |                   |           |                    | 2 cm Muck (        | A10) (LRR K, L, MLRA 149B)            |
|             | oipedon (A2)                 |           | Thin Dark Sur      |       |                   |           |                    | Coast Prairie      | e Redox (A16) <b>(LRR K, L, R)</b>    |
| I           | istic (A3)                   |           | Loamy Mucky        |       |                   | (LRR K, I | -)                 | 5 cm Mucky         | Peat or Peat (S3) (LRR K, L, R)       |
| ,           | en Sulfide (A4)              |           | Loamy Gleyed       |       |                   |           |                    | Dark Surface       | e (S7) <b>(LRR K, L)</b>              |
|             | d Layers (A5)                |           | Depleted Mat       |       |                   |           |                    | Polyvalue Be       | elow Surface (S8) (LRR K, L)          |
|             | d Below Dark Surfa           | ace (A11  |                    |       |                   |           |                    |                    | urface (S9) <b>(LRR K, L)</b>         |
|             | ark Surface (A12)            |           | Depleted Dar       |       |                   |           |                    |                    | nese Masses (F12) (LRR K, L, R)       |
| Sandy N     | Mucky Mineral (S1)           |           | Redox Depre        | ssior | ıs (F8)           |           |                    |                    | oodplain Soils (F19) (MLRA 149B)      |
| Sandy C     | Gleyed Matrix (S4)           |           |                    |       |                   |           |                    |                    | c (TA6) <b>(MLRA 144A, 145, 149B)</b> |
| Sandy F     | Redox (S5)                   |           |                    |       |                   |           |                    | Red Parent l       |                                       |
| Strippe     | d Matrix (S6)                |           |                    |       |                   |           |                    |                    | v Dark Surface (TF12)                 |
| Dark Su     | ırface (S7) <b>(LRR R, N</b> | /ILRA 149 | 9B)                |       |                   |           |                    | Other (Expla       |                                       |
|             |                              |           |                    |       |                   |           |                    | •                  |                                       |
| -           | of hydrophytic veg           |           | and wetland hydr   | olog  | y must be         | e presen  | t, unless disturbe | ed or problematic. |                                       |
|             | Layer (if observed):         | •         |                    |       |                   |           |                    |                    |                                       |
|             | Type:                        |           | None               |       |                   | Hydric    | Soil Present?      |                    | Yes No                                |
|             | Depth (inches):              |           |                    |       |                   |           |                    |                    |                                       |
| Remarks:    |                              |           |                    |       |                   |           |                    |                    |                                       |
|             |                              |           |                    |       |                   |           |                    |                    |                                       |
|             |                              |           |                    |       |                   |           |                    |                    |                                       |
|             |                              |           |                    |       |                   |           |                    |                    |                                       |
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|             |                              |           |                    |       |                   |           |                    |                    |                                       |
|             |                              |           |                    |       |                   |           |                    |                    |                                       |
|             |                              |           |                    |       |                   |           |                    |                    |                                       |
|             |                              |           |                    |       |                   |           |                    |                    |                                       |
|             |                              |           |                    |       |                   |           |                    |                    |                                       |
|             |                              |           |                    |       |                   |           |                    |                    |                                       |
|             |                              |           |                    |       |                   |           |                    |                    |                                       |
|             |                              |           |                    |       |                   |           |                    |                    |                                       |
|             |                              |           |                    |       |                   |           |                    |                    |                                       |
|             |                              |           |                    |       |                   |           |                    |                    |                                       |
|             |                              |           |                    |       |                   |           |                    |                    |                                       |
|             |                              |           |                    |       |                   |           |                    |                    |                                       |
|             |                              |           |                    |       |                   |           |                    |                    |                                       |
|             |                              |           |                    |       |                   |           |                    |                    |                                       |
|             |                              |           |                    |       |                   |           |                    |                    |                                       |
|             |                              |           |                    |       |                   |           |                    |                    |                                       |
|             |                              |           |                    |       |                   |           |                    |                    |                                       |



Photo of Sample Plot North



Photo of Sample Plot South



Photo of Sample Plot West



| Project/Site: Flat Creek Solar Pro  | ject                                  | City/County: Can        | ajoharie, Montgomery Cou              | unty                | Sampling Date: 202             | 21-Sept-15                            |  |
|-------------------------------------|---------------------------------------|-------------------------|---------------------------------------|---------------------|--------------------------------|---------------------------------------|--|
| Applicant/Owner: SunEast            |                                       |                         | State: NY                             | SaSa                | Sampling Point: W-NSD-25_PSS-2 |                                       |  |
| Investigator(s): Nick DeJohn, A     | bi Light                              |                         | Section, Township,                    | , Range: NA         |                                |                                       |  |
| Landform (hillslope, terrace, etc.) | : Depressio                           | n                       | Local relief (concave, conv           | vex, none): C       | Concave                        | Slope (%): 0 to 1                     |  |
| Subregion (LRR or MLRA): L          | RR L                                  |                         | Lat: 42.842066874                     | 48 Long: -7         | 74.5170627908                  | Datum: WGS84                          |  |
| Soil Map Unit Name: Illion silt     | loam, 3 to 8 perc                     | cent slopes             |                                       |                     | NWI classification             | n:                                    |  |
| Are climatic/hydrologic condition   |                                       | -                       |                                       | o (If no, e         | explain in Remarks.)           |                                       |  |
| Are Vegetation, Soil,               | or Hydrolog                           | y significantly di      | sturbed? Are "Norm                    | nal Circumstai      | nces" present?                 | Yes No                                |  |
| Are Vegetation, Soil,               | or Hydrology                          | y naturally prob        | lematic? (If needed,                  | , explain any a     | answers in Remarks.            | .)                                    |  |
|                                     |                                       |                         |                                       |                     |                                |                                       |  |
| SUMMARY OF FINDINGS - A             | ttach site ma                         | p showing sampli        | ng point locations, trai              | nsects, imp         | ortant features,               | etc.                                  |  |
| Hydrophytic Vegetation Present      |                                       | s _ <b>/</b> _ No       |                                       |                     |                                |                                       |  |
| Hydric Soil Present?                |                                       | s _ <b>✓</b> No         | Is the Sampled Area with              | in a Wotland?       | ) Vos                          | / No                                  |  |
|                                     |                                       |                         | <u>'</u>                              |                     |                                | No                                    |  |
| Wetland Hydrology Present?          | · · · · · · · · · · · · · · · · · · · | SNo                     | If yes, optional Wetland S            | Site ID:            | <u>W-N</u>                     | ISD-25                                |  |
| Remarks: (Explain alternative pro   | ocedures here o                       | r in a separate report  | )                                     |                     | ·                              |                                       |  |
| •                                   |                                       |                         | •                                     |                     |                                |                                       |  |
| Covertype is PSS.                   |                                       |                         |                                       |                     |                                |                                       |  |
| I                                   |                                       |                         |                                       |                     |                                |                                       |  |
|                                     |                                       |                         |                                       |                     |                                |                                       |  |
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|                                     |                                       |                         |                                       |                     |                                |                                       |  |
|                                     |                                       |                         |                                       |                     |                                |                                       |  |
|                                     |                                       |                         |                                       |                     |                                |                                       |  |
| HYDROLOGY                           |                                       |                         |                                       |                     |                                |                                       |  |
|                                     |                                       |                         |                                       |                     |                                |                                       |  |
| Wetland Hydrology Indicators:       |                                       |                         |                                       |                     |                                |                                       |  |
| Primary Indicators (minimum of      | one is required:                      | check all that apply)   |                                       | Secondary I         | ndicators (minimum             | of two required)                      |  |
| THINALY INDICACOLS (THINIIII OF     | one is required,                      | crieck all triat apply) |                                       | -                   |                                | or two required)                      |  |
| Surface Water (A1)                  |                                       | Water-Stained Lea       | aves (B9)                             | Surface             | Soil Cracks (B6)               |                                       |  |
| High Water Table (A2)               | •                                     | Aquatic Fauna (B1       |                                       | _ <b>∠</b> Drainage | e Patterns (B10)               |                                       |  |
| Saturation (A3)                     | •                                     | Marl Deposits (B1       |                                       | Moss Tri            | im Lines (B16)                 |                                       |  |
| Saturation (AS)<br>Water Marks (B1) |                                       | •                       |                                       | Dry-Seas            | son Water Table (C2)           |                                       |  |
|                                     |                                       | Hydrogen Sulfide        |                                       | Crayfish            | Burrows (C8)                   |                                       |  |
| Sediment Deposits (B2)              |                                       | ·                       | heres on Living Roots (C3)            | Saturatio           | on Visible on Aerial I         | magery (C9)                           |  |
| Drift Deposits (B3)                 |                                       | Presence of Redu        |                                       |                     | or Stressed Plants ([          |                                       |  |
| Algal Mat or Crust (B4)             |                                       | Recent Iron Reduc       | ction in Tilled Soils (C6)            |                     | phic Position (D2)             | ,                                     |  |
| Iron Deposits (B5)                  |                                       | Thin Muck Surface       | e (C7)                                |                     |                                |                                       |  |
| Inundation Visible on Aerial I      | magery (B7)                           | Other (Explain in I     | Remarks)                              |                     | Aquitard (D3)                  |                                       |  |
| Sparsely Vegetated Concave          |                                       |                         |                                       |                     | pographic Relief (D4)          |                                       |  |
|                                     |                                       |                         |                                       | ∕ FAC-Neu           | ıtral Test (D5)                |                                       |  |
| Field Observations:                 |                                       |                         |                                       |                     |                                |                                       |  |
| Surface Water Present?              | Yes No                                | Depth _✓                | (inches):                             |                     |                                |                                       |  |
| Water Table Present?                | Yes No                                | Depth                   | (inches):                             | Wetland Hv          | drology Present?               | Yes No                                |  |
|                                     |                                       |                         | · · · · · · · · · · · · · · · · · · · | -                   | arology r resent.              | · · · · · · · · · · · · · · · · · · · |  |
| Saturation Present?                 | Yes No                                | Deptn                   | (inches):                             | _                   |                                |                                       |  |
| (includes capillary fringe)         |                                       |                         |                                       |                     |                                |                                       |  |
| Describe Recorded Data (stream      | gauge monitor                         | ing well serial photo   | s previous inspections) if            | available.          |                                |                                       |  |
| Describe Necorded Data (stream      | i gauge, monitor                      | ing wen, acriai prioto. | s, previous irispections, ir          | available.          |                                |                                       |  |
|                                     |                                       |                         |                                       |                     |                                |                                       |  |
|                                     |                                       |                         |                                       |                     |                                |                                       |  |
|                                     |                                       |                         |                                       |                     |                                |                                       |  |
| Remarks:                            |                                       |                         |                                       |                     |                                |                                       |  |
|                                     |                                       |                         |                                       |                     |                                |                                       |  |
|                                     |                                       |                         |                                       |                     |                                |                                       |  |
|                                     |                                       |                         |                                       |                     |                                |                                       |  |
|                                     |                                       |                         |                                       |                     |                                |                                       |  |
|                                     |                                       |                         |                                       |                     |                                |                                       |  |
|                                     |                                       |                         |                                       |                     |                                |                                       |  |
|                                     |                                       |                         |                                       |                     |                                |                                       |  |
|                                     |                                       |                         |                                       |                     |                                |                                       |  |
|                                     |                                       |                         |                                       |                     |                                |                                       |  |

|   |            |                      |                     | 1   |                      |              |               |
|---|------------|----------------------|---------------------|---|----------------------|--------------|---------------|
| <u>Tree Stratum</u> (Plot size: <u>30 ft</u> )      |            | Dominant<br>Species? | Indicator<br>Status | Dominance Test works Number of Dominant S |                      |              |               |
| 1.  |            |                      |                     | Are OBL, FACW, or FAC                     |                      | 3            | (A)           |
| 2.  |            | ·                    |                     | Total Number of Domi                      |                      |              |               |
| 3.  |            |                      |                     | Across All Strata:                        |                      | 3            | (B)           |
| 4.  |            |                      |                     | Percent of Dominant S                     | pecies That          | 100          | (A (D)        |
| ·   |            |                      |                     | Are OBL, FACW, or FAC                     | :                    | 100          | (A/B)         |
| 5.  |            |                      |                     | Prevalence Index work                     | sheet:               |              |               |
| 6   |            |                      |                     | <u>Total % Cover</u>                      | of:                  | Multiply     | <u>By:</u>    |
| 7   |            |                      |                     | OBL species                               | 55                   | x 1 =        | 55            |
|   | 0          | = Total Cov          | er                  | FACW species                              | 65                   | x 2 =        | 130           |
| Sapling/Shrub Stratum (Plot size: 15 ft )           |            |                      |                     | FAC species                               | 10                   | x 3 =        | 30            |
| 1. Salix alba                                       | 50         | Yes                  | FACW                | FACU species                              | 0                    | x 4 =        | 0             |
| 2.  |            |                      |                     | UPL species                               | 0                    | x 5 =        | 0             |
| 3   |            |                      |                     | Column Totals                             | 130                  | (A)          | 215 (B)       |
| 4   |            |                      |                     | Prevalence Ir                             |                      | 1.7          | 213 (b)       |
| 5.  |            |                      |                     | -   |                      |              | <del></del> - |
| 6.  |            |                      |                     | Hydrophytic Vegetation                    |                      |              |               |
| 7.  |            |                      |                     | 1- Rapid Test for I                       |                      | egetation/   |               |
|   | 50         | = Total Cov          | er                  | 2 - Dominance Te                          |                      |              |               |
| Herb Stratum (Plot size: _ 5 ft)                    |            | -                    | ·.                  | 3 - Prevalence Inc                        | $lex is \le 3.0^{1}$ |              |               |
| 1. Typha angustifolia                               | 35         | Yes                  | OBL                 | 4 - Morphological                         |                      |              | supporting    |
| 2. Leersia oryzoides                                | 20         | Yes                  | OBL                 | data in Remarks or on                     | •                    |              |               |
| 3. Onoclea sensibilis                               |            |                      |                     | Problematic Hydr                          | . , .                | -            |               |
| ·   | 15         | No                   | FACW                | ¹Indicators of hydric so                  |                      |              | gy must be    |
| 4. Cornus racemosa                                  | 10         | No                   | FAC                 | present, unless disturb                   | ed or probler        | matic        |               |
| 5   |            |                      |                     | Definitions of Vegetation                 |                      |              |               |
| 6   |            |                      |                     | Tree – Woody plants 3                     |                      |              | diameter at   |
| 7   |            |                      |                     | breast height (DBH), re                   | _                    | _            |               |
| 8.  |            |                      |                     | Sapling/shrub - Woody                     |                      |              | BH and        |
| 9   |            |                      |                     | greater than or equal t                   |                      |              |               |
| 10  |            |                      |                     | Herb – All herbaceous                     | -                    |              | gardless of   |
| 11.   |            |                      |                     | size, and woody plants                    |                      |              |               |
| 12.   |            |                      |                     | Woody vines – All wood                    | dy vines great       | ter than 3.  | 28 ft in      |
|   | 80         | = Total Cov          | er                  | height.                                   |                      |              |               |
| Woody Vine Stratum (Plot size: 30 ft )              | -          | =                    |                     | Hydrophytic Vegetation                    | n Present? \         | ∕es <u> </u> | lo            |
| 1.  |            |                      |                     |   |                      |              |               |
| 2   |            | <del></del>          |                     |   |                      |              |               |
| 3.  |            |                      |                     |   |                      |              |               |
| ·   |            |                      |                     |   |                      |              |               |
| 4   |            | Total Cons           |                     |   |                      |              |               |
|   | 0          | = Total Cov          | er                  |   |                      |              |               |
| Remarks: (Include photo numbers here or on a separa | te sheet.) |                      |                     |   |                      |              |               |
|   |            |                      |                     |   |                      |              |               |
|   |            |                      |                     |   |                      |              |               |
|   |            |                      |                     |   |                      |              |               |
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|   |            |                      |                     |   |                      |              |               |
|   |            |                      |                     |   |                      |              |               |
|   |            |                      |                     |   |                      |              |               |

| Profile Desc    | ription: (Describe to            | o the d       | epth needed to d           | locun       | nent the i        | indicato         | r or confirm the a            | absence of i  | ndicators.)                                |
|-----------------|----------------------------------|---------------|----------------------------|-------------|-------------------|------------------|-------------------------------|---------------|--|
| Depth           | Matrix                           |               | Redox                      | Feat        | ures              |                  |                               |               |  |
| (inches)        | Color (moist)                    | %             | Color (moist)              | %           | Type <sup>1</sup> | Loc <sup>2</sup> | Texture                       | e             | Remarks                                    |
| 0 - 20          | 10YR 3/2                         | 95            | 5YR 4/4                    | 5           | C                 | M                | Clay Loa                      | ım            |  |
|                 |                                  |               |                            |             |                   |                  |                               |               |  |
|                 |                                  |               |                            | _           |                   |                  |                               |               |  |
|                 |                                  |               |                            | _           |                   |                  |                               |               |  |
|                 |                                  |               |                            | _           |                   |                  |                               |               |  |
|                 |                                  |               |                            |             |                   |                  | -                             |               |  |
|                 |                                  |               |                            | -           |                   |                  |                               |               |  |
|                 |                                  |               |                            |             |                   |                  |                               |               |  |
|                 |                                  |               |                            | -           |                   |                  |                               |               |  |
|                 |                                  |               |                            | . —         |                   |                  |                               |               |  |
|                 |                                  |               |                            | _           |                   |                  |                               |               |  |
|                 |                                  |               |                            | . —         |                   |                  |                               |               |  |
| l <del></del> . |                                  | <del></del> . |                            | <del></del> |                   |                  |                               | <del></del> . |  |
|                 | Concentration, D = D             | Depletion     | on, RM = Reduced           | Mat         | rix, MS =         | Masked           | l Sand Grains. <sup>2</sup> l |               | . = Pore Lining, M = Matrix.               |
| Hydric Soil I   |                                  |               |                            |             |                   |                  |                               | Indicator     | rs for Problematic Hydric Soils³:          |
| Histosol        |                                  |               | Polyvalue Be               |             |                   |                  |                               | 2 cm          | Muck (A10) (LRR K, L, MLRA 149B)           |
|                 | oipedon (A2)                     |               | Thin Dark Su               |             |                   |                  |                               | Coast         | t Prairie Redox (A16) <b>(LRR K, L, R)</b> |
| Black Hi        |                                  |               | Loamy Muck                 | -           |                   | (LKK K,          | L)                            | 5 cm          | Mucky Peat or Peat (S3) (LRR K, L, R)      |
|                 | en Sulfide (A4)<br>d Layers (A5) |               | Loamy Gleye<br>Depleted Ma |             |                   |                  |                               |               | Surface (S7) <b>(LRR K, L)</b>             |
|                 | d Below Dark Surfa               | ce (A11       |                            |             |                   |                  |                               |               | alue Below Surface (S8) <b>(LRR K, L)</b>  |
|                 | ark Surface (A12)                |               | Depleted Da                |             |                   | )                |                               |               | Dark Surface (S9) <b>(LRR K, L)</b>        |
|                 | lucky Mineral (S1)               |               | Redox Depre                |             |                   |                  |                               |               | Manganese Masses (F12) (LRR K, L, R)       |
|                 | ileyed Matrix (S4)               |               |                            |             | . ,               |                  |                               |               | nont Floodplain Soils (F19) (MLRA 149B)    |
| -               | edox (S5)                        |               |                            |             |                   |                  |                               |               | Spodic (TA6) (MLRA 144A, 145, 149B)        |
| _               | d Matrix (S6)                    |               |                            |             |                   |                  |                               |               | Parent Material (F21)                      |
|                 | rface (S7) (LRR R, M             | LRA 14        | 9B)                        |             |                   |                  |                               | -             | Shallow Dark Surface (TF12)                |
|                 |                                  |               |                            |             |                   |                  |                               |               | r (Explain in Remarks)                     |
| -               | of hydrophytic vege              | etation       | and wetland hyd            | rolog       | y must b          | e presei         | nt, unless disturb            | ed or probl   | ematic.                                    |
| Restrictive L   | _ayer (if observed):             |               |                            |             |                   |                  |                               |               |  |
|                 | Type:                            |               | None                       |             |                   | Hydric           | Soil Present?                 |               | Yes No                                     |
|                 | Depth (inches):                  |               |                            |             |                   |                  |                               |               |  |
| Remarks:        |                                  |               |                            |             |                   |                  |                               |               |  |
|                 |                                  |               |                            |             |                   |                  |                               |               |  |
|                 |                                  |               |                            |             |                   |                  |                               |               |  |
|                 |                                  |               |                            |             |                   |                  |                               |               |  |
|                 |                                  |               |                            |             |                   |                  |                               |               |  |
|                 |                                  |               |                            |             |                   |                  |                               |               |  |
|                 |                                  |               |                            |             |                   |                  |                               |               |  |
|                 |                                  |               |                            |             |                   |                  |                               |               |  |
|                 |                                  |               |                            |             |                   |                  |                               |               |  |
|                 |                                  |               |                            |             |                   |                  |                               |               |  |
|                 |                                  |               |                            |             |                   |                  |                               |               |  |
|                 |                                  |               |                            |             |                   |                  |                               |               |  |
|                 |                                  |               |                            |             |                   |                  |                               |               |  |
|                 |                                  |               |                            |             |                   |                  |                               |               |  |
|                 |                                  |               |                            |             |                   |                  |                               |               |  |
|                 |                                  |               |                            |             |                   |                  |                               |               |  |
|                 |                                  |               |                            |             |                   |                  |                               |               |  |
|                 |                                  |               |                            |             |                   |                  |                               |               |  |
|                 |                                  |               |                            |             |                   |                  |                               |               |  |
|                 |                                  |               |                            |             |                   |                  |                               |               |  |
|                 |                                  |               |                            |             |                   |                  |                               |               |  |



Photo of Sample Plot North



Photo of Sample Plot South



Photo of Sample Plot West



| Project/Site: Flat Creek Solar Pro   | oject                     | City/County:_ Cana  | ajoharie, Montgomery Cou   | ınty  | Sampling Date: 202   | 21-Sept-15              |  |
|--|---------------------------|---|--|---|--|-------------------------|--|
| Applicant/Owner: SunEast   |                           |   | State: NY  | Sampling Point: W-NSD-25_UPL-1  |  |                         |  |
| Investigator(s): Nick DeJohn, A  | bi Light                  |   | Section, Township,   | Range: NA   | 4  |                         |  |
| Landform (hillslope, terrace, etc.)  | ): Low Hill               |   | Local relief (concave, conv  | /ex, none):   | Undulating   | Slope (%): 0 to 1       |  |
| Subregion (LRR or MLRA): L   | .RR L                     |   | Lat: 42.842033179  | 5 Long:   | -74.5170702507   | Datum: WGS84            |  |
| Soil Map Unit Name: Illion silt  | loam, 3 to 8 perce        | nt slopes   |  |   | NWI classificatio  | n:                      |  |
| Are climatic/hydrologic condition  | s on the site typic       | al for this time of yea   | ar? Yes <u>✓</u> No  | (If no  | , explain in Remarks.)   |                         |  |
| Are Vegetation, Soil,  | or Hydrology <sub>-</sub> | significantly dis   | sturbed? Are "Norm   | al Circumst   | ances" present?  | Yes No                  |  |
| Are Vegetation, Soil,  | or Hydrology <sub>-</sub> | naturally proble  | ematic? (If needed,  | explain any   | y answers in Remarks   | .)                      |  |
| SUMMARY OF FINDINGS – A  | Attach site map           | showing samplir   | ng point locations, trai   | nsects, im  | portant features,  | etc.                    |  |
| Hydrophytic Vegetation Present   | ? Yes                     | No _ <b>_</b> _   |  |   |  |                         |  |
| Hydric Soil Present?   | Yes                       | ✓_ No   | Is the Sampled Area with   | nin a Wetlan  | ıd? Ye   | s No <u>_</u>           |  |
| Wetland Hydrology Present?   | Yes                       | No <b>/</b> _   | If yes, optional Wetland   | Site ID:  |  |                         |  |
| Remarks: (Explain alternative pr<br>Covertype is UPL.  | ocedures here or i        | in a separate report)   |  |   |  |                         |  |
| HYDROLOGY  Wetland Hydrology Indicators: Primary Indicators (minimum of  Surface Water (A1)  High Water Table (A2)  Saturation (A3)  Water Marks (B1)  Sediment Deposits (B2)  Drift Deposits (B3)  Algal Mat or Crust (B4)  Iron Deposits (B5)  Inundation Visible on Aerial (B4)  Sparsely Vegetated Concave |                           | _ Water-Stained Lea<br>_ Aquatic Fauna (B1:<br>_ Marl Deposits (B1:<br>_ Hydrogen Sulfide (<br>_ Oxidized Rhizosph<br>_ Presence of Reduc | 3) 5) Odor (C1) Heres on Living Roots (C3) Hed Iron (C4) Hition in Tilled Soils (C6) He (C7) | Surface Draina, Moss T Dry-Se. Crayfis Satural Stunte Geomo Shallov Microto | y Indicators (minimum<br>e Soil Cracks (B6)<br>ige Patterns (B10)<br>frim Lines (B16)<br>iason Water Table (C2)<br>sh Burrows (C8)<br>tion Visible on Aerial I<br>d or Stressed Plants (I<br>orphic Position (D2)<br>w Aquitard (D3)<br>opographic Relief (D4)<br>eutral Test (D5) | )<br>magery (C9)<br>D1) |  |
| Field Observations:  |                           |   |  |   |  |                         |  |
| Surface Water Present?   | Yes No _                  | ✓ Depth (   | inches):   | _   |  |                         |  |
| Water Table Present?   | Yes No _                  | ✓ Depth (   | inches):   | Wetland H   | lydrology Present?   | Yes No                  |  |
| Saturation Present?  | Yes No _                  |   | inches):   | -1  | -  |                         |  |
| (includes capillary fringe)  |                           |   |  | -[  |  |                         |  |
| Describe Recorded Data (stream   | n gauge monitorir         | o well aerial nhotos  | nrevious inspections) if   | available:  |  |                         |  |
| Remarks:   |                           | g weil, dellar photos   | , previous inspections, in   |   |  |                         |  |
|  |                           |   |  |   |  |                         |  |

| Indicator Status Dominance Test worksheet:   Number of Dominant Species That Are OBL, FACW, or FAC: 0 (A)   Total Number of Dominant Species Across All Strata: 2 (B)   Percent of Dominant Species That Are OBL, FACW, or FAC: 0 (A/B)   Prevalence Index worksheet: Multiply By:   OBL species 0 x1 = 0   FACW species 0 x2 = 0   FACU species 20 x3 = 60   FACU species 70 x4 = 280   UPL species 0 x5 = 0   Column Totals 90 (A) 340 (B)   Prevalence Index = B/A = 3.8   Hydrophytic Vegetation Indicators: 1- Rapid Test for Hydrophytic Vegetation   Pacuration of Prevalence Index is ≤ 3.0¹ 2 - Dominance Test is > 50%   Pacuration of Prevalence Index is ≤ 3.0¹ 4 - Morphological Adaptations¹ (Provide supporting data in Remarks or on a separate sheet)   Problematic Hydrophytic Vegetation¹ (Explain) 1¹Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic   FACUrations of Vegetation Strata: Tree - Woody plants 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of height.   Sapling/shrub - Woody plants less than 3 in. DBH and greater than or equal to 3.28 ft (1 m) tall.   Herb - All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall.   |
|---|
| Are OBL, FACW, or FAC:  Total Number of Dominant Species Across All Strata:  Percent of Dominant Species That Are OBL, FACW, or FAC:  Prevalence Index worksheet:  Total % Cover of:  Multiply By:  OBL species  O  |
| Total Number of Dominant Species Across All Strata:  Percent of Dominant Species That Are OBL, FACW, or FAC:  Prevalence Index worksheet:  Total % Cover of:  Multiply By:  OBL species  O |
| Across All Strata:  Percent of Dominant Species That Are OBL, FACW, or FAC:  Prevalence Index worksheet:  Total % Cover of:  Multiply By:  OBL species  OBL spec |
| Percent of Dominant Species That Are OBL, FACW, or FAC:  Prevalence Index worksheet:  Total % Cover of:  OBL species  OBL |
| Are OBL, FACW, or FAC:  Prevalence Index worksheet:  Total % Cover of:  Multiply By:  OBL species  OBL speci |
| Prevalence Index worksheet:  Total % Cover of:  Multiply By:  OBL species  0  |
| Total % Cover of:  OBL species |
| OBL species  FACW species  O  |
| FACW species 0 x 2 = 0 FAC species 20 x 3 = 60 FACU species 70 x 4 = 280 UPL species 0 x 5 = 0 Column Totals 90 (A) 340 (B) Prevalence Index = B/A = 3.8  Hydrophytic Vegetation Indicators:  1 - Rapid Test for Hydrophytic Vegetation 2 - Dominance Test is > 50% 3 - Prevalence Index is ≤ 3.0¹ 4 - Morphological Adaptations¹ (Provide supporting data in Remarks or on a separate sheet) FACU FACU FAC FAC FAC FAC FAC FAC Table Test or Hydrophytic Vegetation¹ (Explain) 1 Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic  Definitions of Vegetation Strata: Tree - Woody plants 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of height. Sapling/shrub - Woody plants less than 3 in. DBH and greater than or equal to 3.28 ft (1 m) tall. Herb - All herbaceous (non-woody) plants, regardless of  |
| FACU species 20 x 3 = 60  FACU species 70 x 4 = 280  UPL species 0 x 5 = 0  Column Totals 90 (A) 340 (B)  Prevalence Index = B/A = 3.8  Hydrophytic Vegetation Indicators:  1- Rapid Test for Hydrophytic Vegetation  2 - Dominance Test is > 50%  3 - Prevalence Index is ≤ 3.0¹  4 - Morphological Adaptations¹ (Provide supporting data in Remarks or on a separate sheet)  Problematic Hydrophytic Vegetation¹ (Explain)  ¹Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic  FACU  FACU  FACU  FACU  FACU  Tree - Woody plants 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of height.  Sapling/shrub - Woody plants less than 3 in. DBH and greater than or equal to 3.28 ft (1 m) tall.  Herb - All herbaceous (non-woody) plants, regardless of   |
| FACU FACU FACU FACU FACU FACU FACU FACU FACU  |
| UPL species 0 x 5 = 0 Column Totals 90 (A) 340 (B)  Prevalence Index = B/A = 3.8  Hydrophytic Vegetation Indicators:  1 - Rapid Test for Hydrophytic Vegetation 2 - Dominance Test is > 50% 3 - Prevalence Index is ≤ 3.0¹ 4 - Morphological Adaptations¹ (Provide supporting data in Remarks or on a separate sheet)  FACU FAC  FAC  FAC  FAC  FAC  FAC  Tree - Woody plants 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of height.  Sapling/shrub - Woody plants less than 3 in. DBH and greater than or equal to 3.28 ft (1 m) tall.  Herb - All herbaceous (non-woody) plants, regardless of  |
| Column Totals 90 (A) 340 (B)  Prevalence Index = B/A = 3.8  Hydrophytic Vegetation Indicators:  1 - Rapid Test for Hydrophytic Vegetation  2 - Dominance Test is > 50%  3 - Prevalence Index is ≤ 3.0¹  4 - Morphological Adaptations¹ (Provide supporting data in Remarks or on a separate sheet)  Problematic Hydrophytic Vegetation¹ (Explain)  ¹Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic  FACU  FACU  FACU  FACU  FACU  FACU  FACU  FACU  FACU  FACU  Sapling/shrub – Woody plants less than 3 in. DBH and greater than or equal to 3.28 ft (1 m) tall.  Herb – All herbaceous (non-woody) plants, regardless of  |
| Prevalence Index = B/A = 3.8  Hydrophytic Vegetation Indicators:  1 - Rapid Test for Hydrophytic Vegetation  2 - Dominance Test is > 50%  3 - Prevalence Index is ≤ 3.0¹  4 - Morphological Adaptations¹ (Provide supporting data in Remarks or on a separate sheet)  Problematic Hydrophytic Vegetation¹ (Explain)  ¹Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic  FACU  FACU  FACU  FACU  FACU  FACU  Tree – Woody plants 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of height.  Sapling/shrub – Woody plants less than 3 in. DBH and greater than or equal to 3.28 ft (1 m) tall.  Herb – All herbaceous (non-woody) plants, regardless of  |
| Hydrophytic Vegetation Indicators:  1- Rapid Test for Hydrophytic Vegetation  2 - Dominance Test is > 50%  3 - Prevalence Index is ≤ 3.0¹  4 - Morphological Adaptations¹ (Provide supporting data in Remarks or on a separate sheet)  FACU  FAC  FAC  FAC  FAC  FAC  FAC  Definitions of Vegetation Strata:  Tree - Woody plants 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of height.  Sapling/shrub - Woody plants less than 3 in. DBH and greater than or equal to 3.28 ft (1 m) tall.  Herb - All herbaceous (non-woody) plants, regardless of  |
| TACU FACU FACU FACU FACU FACU FACU FACU F   |
| EACU FACU FACU FACU FACU FACU FACU FACU F   |
| FACU FACU FACU FAC FAC FAC FAC FAC FAC FAC FAC FAC FAC  |
| FACU FACU FACU FACU FAC FAC FAC FAC FAC FAC FAC FAC FAC FAC   |
| FACU FACU FACU FAC FAC FAC FAC FAC FAC FAC FAC FAC FAC  |
| FACU FAC Problematic Hydrophytic Vegetation¹ (Explain)  ¹Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic  FACU Definitions of Vegetation Strata:  Tree – Woody plants 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of height.  Sapling/shrub – Woody plants less than 3 in. DBH and greater than or equal to 3.28 ft (1 m) tall.  Herb – All herbaceous (non-woody) plants, regardless of   |
| FAC Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic  FACU Definitions of Vegetation Strata: Tree – Woody plants 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of height. Sapling/shrub – Woody plants less than 3 in. DBH and greater than or equal to 3.28 ft (1 m) tall. Herb – All herbaceous (non-woody) plants, regardless of   |
| FAC present, unless disturbed or problematic  FACU Definitions of Vegetation Strata:  Tree – Woody plants 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of height.  Sapling/shrub – Woody plants less than 3 in. DBH and greater than or equal to 3.28 ft (1 m) tall.  Herb – All herbaceous (non-woody) plants, regardless of  |
| FACU  Definitions of Vegetation Strata:  Tree – Woody plants 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of height.  Sapling/shrub – Woody plants less than 3 in. DBH and greater than or equal to 3.28 ft (1 m) tall.  Herb – All herbaceous (non-woody) plants, regardless of   |
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| breast height (DBH), regardless of height.  Sapling/shrub – Woody plants less than 3 in. DBH and greater than or equal to 3.28 ft (1 m) tall.  Herb – All herbaceous (non-woody) plants, regardless of  |
| Sapling/shrub – Woody plants less than 3 in. DBH and greater than or equal to 3.28 ft (1 m) tall.  Herb – All herbaceous (non-woody) plants, regardless of  |
| greater than or equal to 3.28 ft (1 m) tall.  Herb – All herbaceous (non-woody) plants, regardless of   |
| Herb – All herbaceous (non-woody) plants, regardless of   |
|   |
| I size and woody plants loss than 3.78 ft fall  |
|   |
| Woody vines – All woody vines greater than 3.28 ft in   |
| er ————————————————————————————————————   |
| Hydrophytic Vegetation Present? Yes No _✓   |
|   |
|   |
|   |
|   |
|   |
| er  |
| Woody vines – All woody vines – height.   |

| Profile Desc  | cription: (Describe  | to the de | =                |         |                   | ndicato          | or confirm the a            | bsence of indicato | ors.)                                 |
|---------------|----------------------|-----------|------------------|---------|-------------------|------------------|-----------------------------|--------------------|---------------------------------------|
| Depth _       | Matrix               |           | Redox            | Feat    | tures             |                  |                             |                    |                                       |
| (inches)      | Color (moist)        | %         | Color (moist)    | %       | Type <sup>1</sup> | Loc <sup>2</sup> | Text                        | ure                | Remarks                               |
| 0 - 3         | 10YR 3/2             | 100       |                  |         |                   |                  | Silt Lo                     | oam                |                                       |
| 3 - 20        | 10YR 3/2             | 95        | 10YR 5/8         | 5       | С                 | M                | Silty Clay                  | y Loam             |                                       |
|               |                      |           |                  | _       |                   |                  |                             |                    |                                       |
| _             |                      |           |                  | _       |                   |                  |                             | -                  |                                       |
|               |                      |           |                  | _       |                   |                  |                             |                    |                                       |
|               |                      |           |                  | _       |                   |                  |                             | _                  |                                       |
|               |                      |           |                  | _       |                   |                  |                             |                    |                                       |
|               |                      |           |                  | _       |                   |                  |                             |                    |                                       |
|               |                      |           |                  | _       |                   |                  |                             |                    |                                       |
|               |                      |           |                  | _       |                   |                  |                             |                    |                                       |
|               |                      |           |                  | _       |                   |                  |                             |                    |                                       |
|               |                      |           |                  | _       |                   |                  |                             |                    |                                       |
|               |                      |           |                  | _       |                   |                  |                             |                    |                                       |
| ¹Type: C = C  | Concentration, D =   | Depletio  | n, RM = Reduced  | Mat     | rix, MS =         | Masked           | Sand Grains. <sup>2</sup> L | ocation: PL = Pore | e Lining, M = Matrix.                 |
| Hydric Soil I | Indicators:          |           |                  |         |                   |                  |                             | Indicators for P   | roblematic Hydric Soils³:             |
| Histosol      | (A1)                 |           | Polyvalue Bel    | ow S    | urface (S         | 8) <b>(LRR</b> I | R, MLRA 149B)               | 2 cm Muck (        | (A10) (LRR K, L, MLRA 149B)           |
| Histic Ep     | oipedon (A2)         |           | Thin Dark Sur    |         |                   |                  |                             |                    | e Redox (A16) (LRR K, L, R)           |
| Black Hi      | stic (A3)            |           | Loamy Mucky      | Mir Mir | eral (F1)         | (LRR K, I        | _)                          |                    | Peat or Peat (S3) (LRR K, L, R)       |
| Hydroge       | en Sulfide (A4)      |           | Loamy Gleye      |         |                   |                  |                             | Dark Surface       |                                       |
| Stratifie     | d Layers (A5)        |           | Depleted Mat     | rix (I  | <del>-</del> 3)   |                  |                             |                    | elow Surface (S8) (LRR K, L)          |
|               | d Below Dark Surfa   |           |                  |         |                   |                  |                             |                    | urface (S9) <b>(LRR K, L)</b>         |
|               | ark Surface (A12)    |           | Depleted Dar     |         |                   |                  |                             |                    | nese Masses (F12) (LRR K, L, R)       |
|               | lucky Mineral (S1)   |           | Redox Depre      | ssior   | ıs (F8)           |                  |                             | _                  | oodplain Soils (F19) (MLRA 149B)      |
| -             | Gleyed Matrix (S4)   |           |                  |         |                   |                  |                             |                    | c (TA6) <b>(MLRA 144A, 145, 149B)</b> |
| Sandy R       | tedox (S5)           |           |                  |         |                   |                  |                             | Red Parent I       |                                       |
| Stripped      | d Matrix (S6)        |           |                  |         |                   |                  |                             |                    | v Dark Surface (TF12)                 |
| Dark Su       | rface (S7) (LRR R, N | /ILRA 149 | 9B)              |         |                   |                  |                             | Other (Expla       |                                       |
| 3Indicators   | of hydrophytic veg   | etation : | and wetland hydr | വിവര    | v must he         | nresen           | t unless disturbe           | •                  |                                       |
| -             | Layer (if observed): |           | and Wedana nyan  | 0108    | y mast b          | Presen           | i, amess astarbe            | d or problematic.  |                                       |
|               | Type:                |           | None             |         |                   | ⊔vdric           | Soil Present?               |                    | Yes _ ✓_ No                           |
|               | • •                  | -         | None             |         |                   | liyunc           | Jon Fresent:                |                    | 163 <u>7</u> NO                       |
|               | Depth (inches):      |           |                  |         |                   |                  |                             |                    |                                       |
| Remarks:      |                      |           |                  |         |                   |                  |                             |                    |                                       |
|               |                      |           |                  |         |                   |                  |                             |                    |                                       |
|               |                      |           |                  |         |                   |                  |                             |                    |                                       |
|               |                      |           |                  |         |                   |                  |                             |                    |                                       |
|               |                      |           |                  |         |                   |                  |                             |                    |                                       |
|               |                      |           |                  |         |                   |                  |                             |                    |                                       |
|               |                      |           |                  |         |                   |                  |                             |                    |                                       |
|               |                      |           |                  |         |                   |                  |                             |                    |                                       |
|               |                      |           |                  |         |                   |                  |                             |                    |                                       |
|               |                      |           |                  |         |                   |                  |                             |                    |                                       |
|               |                      |           |                  |         |                   |                  |                             |                    |                                       |
|               |                      |           |                  |         |                   |                  |                             |                    |                                       |
|               |                      |           |                  |         |                   |                  |                             |                    |                                       |
|               |                      |           |                  |         |                   |                  |                             |                    |                                       |
|               |                      |           |                  |         |                   |                  |                             |                    |                                       |
|               |                      |           |                  |         |                   |                  |                             |                    |                                       |
|               |                      |           |                  |         |                   |                  |                             |                    |                                       |
|               |                      |           |                  |         |                   |                  |                             |                    |                                       |
|               |                      |           |                  |         |                   |                  |                             |                    |                                       |
|               |                      |           |                  |         |                   |                  |                             |                    |                                       |
|               |                      |           |                  |         |                   |                  |                             |                    |                                       |

Soil Photos



Photo of Sample Plot North



Photo of Sample Plot East



Photo of Sample Plot West



| Project/Site: Flat Creek Solar Proj  | ect             | City/County: Ca        | najoharie, Montgomery Cou      | ınty             | Sampling Date: 202         | 1-Sept-15         |
|--------------------------------------|-----------------|------------------------|--------------------------------|------------------|----------------------------|-------------------|
| Applicant/Owner: SunEast             |                 |                        | State: NY                      |                  | D-26_PSS-1                 |                   |
| Investigator(s): Nick DeJohn, Ab     | i Light         |                        | Section, Township,             | Range: NA        | ٩                          |                   |
| Landform (hillslope, terrace, etc.): | Depression      | on                     | Local relief (concave, conv    | /ex, none):      | Concave                    | Slope (%): 0 to 1 |
| Subregion (LRR or MLRA): LR          | RR L            |                        | Lat: 42.842833274              | l1 Long:         | -74.5164452121             | Datum: WGS84      |
| Soil Map Unit Name: Fluvaquer        | nts, loamy      |                        |                                |                  | NWI classification         | n:                |
| Are climatic/hydrologic conditions   | on the site typ | oical for this time of | year? Yes <u>√</u> No          | (If no           | , explain in Remarks.)     |                   |
| Are Vegetation, Soil,                | or Hydrolog     | gy significantly       | disturbed? Are "Norm           | al Circumst      | tances" present?           | Yes No            |
| Are Vegetation, Soil,                | or Hydrolog     | gy naturally pro       | blematic? (If needed,          | explain an       | y answers in Remarks.)     | )                 |
|                                      |                 |                        |                                |                  |                            |                   |
| SUMMARY OF FINDINGS – At             | ttach site ma   | ap showing samp        | ling point locations, trai     | nsects, im       | iportant features, e       | etc.              |
| Hydrophytic Vegetation Present?      | Ye              | es No                  | ļ                              |                  |                            |                   |
| Hydric Soil Present?                 | Ye              | es No                  | Is the Sampled Area withi      | in a Wetlan      | d? Yes _                   | No                |
| Wetland Hydrology Present?           | Ye              | es No                  | If yes, optional Wetland S     | ite ID:          | W-N                        | SD-26             |
| Remarks: (Explain alternative pro    | <del></del>     |                        |                                |                  | <del></del>                |                   |
|                                      | cedures nere o  | or in a separate repo  | ir ()                          |                  |                            |                   |
| Covertype is PSS.                    |                 |                        |                                |                  |                            |                   |
|                                      |                 |                        |                                |                  |                            |                   |
|                                      |                 |                        |                                |                  |                            |                   |
|                                      |                 |                        |                                |                  |                            |                   |
|                                      |                 |                        |                                |                  |                            |                   |
|                                      |                 |                        |                                |                  |                            |                   |
|                                      |                 |                        |                                |                  |                            |                   |
|                                      |                 |                        |                                |                  |                            |                   |
|                                      |                 |                        |                                |                  |                            |                   |
|                                      |                 |                        |                                |                  |                            |                   |
|                                      |                 |                        |                                |                  |                            |                   |
| HYDROLOGY                            |                 |                        |                                |                  |                            |                   |
|                                      |                 |                        |                                |                  |                            |                   |
| Wetland Hydrology Indicators:        |                 |                        |                                |                  |                            |                   |
| Primary Indicators (minimum of o     | one is required | ; check all that apply | <u>a</u>                       | <u>Secondary</u> | y Indicators (minimum      | of two required)  |
| Conference Material (Ad)             |                 | Matau Chain ad I       | (D0)                           | Surface          | e Soil Cracks (B6)         |                   |
| Surface Water (A1)                   |                 | Water-Stained L        |                                | Draina           | ige Patterns (B10)         |                   |
| High Water Table (A2)                |                 | Aquatic Fauna (I       |                                |                  | Trim Lines (B16)           |                   |
| Saturation (A3)                      |                 | Marl Deposits (E       |                                |                  | eason Water Table (C2)     |                   |
| Water Marks (B1)                     |                 | Hydrogen Sulfid        |                                | -                | sh Burrows (C8)            |                   |
| Sediment Deposits (B2)               |                 |                        | pheres on Living Roots (C3)    | -                | ition Visible on Aerial In | magery (C9)       |
| Drift Deposits (B3)                  |                 | Presence of Red        |                                |                  | d or Stressed Plants (D    |                   |
| Algal Mat or Crust (B4)              |                 | Recent Iron Red        | uction in Tilled Soils (C6)    |                  | orphic Position (D2)       | , , ,             |
| Iron Deposits (B5)                   |                 | Thin Muck Surfa        | ice (C7)                       |                  | w Aquitard (D3)            |                   |
| Inundation Visible on Aerial In      | nagery (B7)     | Other (Explain in      | n Remarks)                     |                  |                            |                   |
| Sparsely Vegetated Concave S         | Surface (B8)    |                        |                                |                  | copographic Relief (D4)    |                   |
|                                      |                 |                        |                                | FAC-Ne           | eutral Test (D5)           |                   |
| Field Observations:                  |                 |                        |                                |                  |                            |                   |
| Surface Water Present?               | Yes No          | •                      | h (inches):                    | -                |                            |                   |
| Water Table Present?                 | Yes No          | o <u> </u>             | h (inches):                    | Wetland F        | Hydrology Present?         | Yes No            |
| Saturation Present?                  | Yes No          | o <u> </u>             | h (inches):                    | =                |                            |                   |
| (includes capillary fringe)          |                 |                        |                                |                  |                            |                   |
| Describe Recorded Data (stream       | gauge, monito   | ring well, aerial phot | tos, previous inspections), if | available:       |                            |                   |
| ,                                    | 0 0.            | 0 , 1                  |                                |                  |                            |                   |
|                                      |                 |                        |                                |                  |                            |                   |
|                                      |                 |                        |                                |                  |                            |                   |
| Remarks:                             |                 |                        |                                |                  |                            |                   |
|                                      |                 |                        |                                |                  |                            |                   |
|                                      |                 |                        |                                |                  |                            |                   |
|                                      |                 |                        |                                |                  |                            |                   |
|                                      |                 |                        |                                |                  |                            |                   |
|                                      |                 |                        |                                |                  |                            |                   |
|                                      |                 |                        |                                |                  |                            |                   |
|                                      |                 |                        |                                |                  |                            |                   |
|                                      |                 |                        |                                |                  |                            |                   |
| 1                                    |                 |                        |                                |                  |                            |                   |

| <u>Tree Stratum</u> (Plot size: <u>30 ft</u> ) |         | Dominant    |        | Dominance Test worksheet:                               |                     |             |
|--|---------|-------------|--------|---|---------------------|-------------|
|  | % Cover | Species?    | Status | Number of Dominant Species That                         | 4                   | (A)         |
| 1  |         |             |        | Are OBL, FACW, or FAC:                                  |                     |             |
| 2  |         |             |        | Total Number of Dominant Species                        | 4                   | (B)         |
| 3  |         |             |        | Across All Strata:                                      |                     |             |
| 4  |         |             |        | Percent of Dominant Species That Are OBL, FACW, or FAC: | 100                 | (A/B)       |
| 5.   |         |             |        | -   | -                   |             |
| 6.   |         |             |        | Prevalence Index worksheet:                             | N.A. alatina la a I | D           |
| 7.   |         |             |        | Total % Cover of:                                       | Multiply I          | -           |
|  | 0       | = Total Cov | er     | OBL species 5   | x 1 = _             | 5           |
| Sapling/Shrub Stratum (Plot size:15 ft)        |         | -           |        | FACW species 135  | x 2 = _             | 270         |
| 1. Salix bebbiana                              | 30      | Yes         | FACW   | FAC species 0   | x 3 =               | 0           |
| 2. Cornus amomum                               |         | Yes         | FACW   | FACU species 0  | x 4 =               | 0           |
| 3.   |         |             | 171011 | - UPL species 0   | x 5 =               | 0           |
| 4.   |         |             |        | - Column Totals 140                                     | (A)                 | 275 (B)     |
| 5.   |         |             |        | Prevalence Index = B/A =                                | 2                   |             |
|  |         |             |        | Hydrophytic Vegetation Indicators:                      |                     |             |
| 6  |         |             |        |   | Vegetation          |             |
| 7  |         |             |        | 2 - Dominance Test is >50%                              |                     |             |
|  | 50      | = Total Cov | er     | $\checkmark$ 3 - Prevalence Index is $\le 3.0^{\circ}$  |                     |             |
| <u>Herb Stratum</u> (Plot size: <u>5 ft</u> )  |         |             |        | 4 - Morphological Adaptations                           | 1 (Provide s        | supporting  |
| 1. Onoclea sensibilis                          | 60      | Yes         | FACW   | data in Remarks or on a separate s                      |                     |             |
| 2. Impatiens capensis                          | 25      | Yes         | FACW   | Problematic Hydrophytic Vege                            |                     | plain)      |
| 3. Sparganium americanum                       | 5       | No          | OBL    | ¹Indicators of hydric soil and wetlar                   |                     |             |
| 4  |         |             |        | present, unless disturbed or proble                     |                     |             |
| 5  |         |             |        | Definitions of Vegetation Strata:                       |                     |             |
| 6.   |         |             |        | Tree – Woody plants 3 in. (7.6 cm) c                    | r more in c         | liameter at |
| 7.   |         |             |        | breast height (DBH), regardless of h                    |                     |             |
| 8.   |         |             |        | Sapling/shrub – Woody plants less                       | -                   | BH and      |
| 9.   |         |             |        | greater than or equal to 3.28 ft (1 n                   |                     |             |
| 10   |         |             |        | Herb – All herbaceous (non-woody)                       | plants, reg         | ardless of  |
| 11   |         |             |        | size, and woody plants less than 3                      | 28 ft tall.         |             |
| 13   |         |             |        | Woody vines – All woody vines grea                      | iter than 3.        | 28 ft in    |
| 12.  | 90      | = Total Cov | or     | height.   |                     |             |
| Manda Nina Chuchina (Blat sina 20 ft )         |         | - Total Cov | ei     | Hydrophytic Vegetation Present?                         | Yes 🗸 N             | 0           |
| Woody Vine Stratum (Plot size:30 ft)           |         |             |        | , ye ip yee igener                                      |                     |             |
| 1  |         |             |        | -   |                     |             |
| 2  |         |             |        | -   |                     |             |
|  |         |             |        | -   |                     |             |
| · · ·  |         |             |        | _   |                     |             |
| 3.<br>4.                                       |         | = Total Cov |        |   |                     |             |

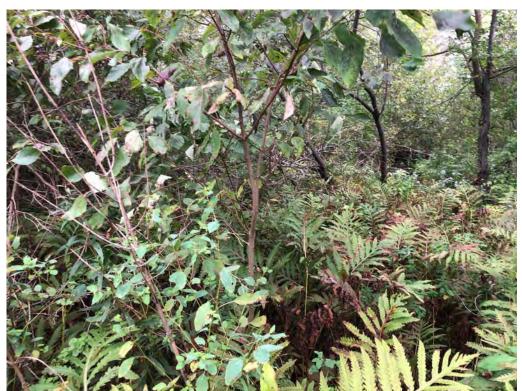
| Profile Desc  | ription: (Describe t | o the    | depth needed to o | locun    | nent the i        | ndicato        | r or confirm the a            | absence of i | indicators.)                            |
|---------------|----------------------|----------|-------------------|----------|-------------------|----------------|-------------------------------|--------------|---|
| Depth         | Matrix               |          | Redox             | Feat     | ıres              |                |                               |              |   |
| (inches)      | Color (moist)        | %        | Color (moist)     | %        | Type <sup>1</sup> | Loc2           | Texture                       | e            | Remarks                                 |
| 0 - 20        | 2.5Y 3/1             | 90       | 5YR 3/4           | 10       | C                 | M              | Clay Loa                      | ım           |   |
|               |                      |          |                   |          |                   |                |                               |              |   |
|               |                      |          |                   |          |                   |                | -                             |              | 1                                       |
|               |                      | -        |                   | —        |                   |                |                               |              |   |
|               |                      |          |                   |          |                   |                |                               |              | ,                                       |
|               |                      |          |                   |          |                   |                |                               |              |   |
|               |                      |          |                   |          |                   |                |                               |              |   |
|               |                      |          |                   |          |                   |                |                               |              |   |
|               |                      |          |                   |          |                   |                |                               |              |   |
|               |                      |          |                   |          |                   |                |                               |              |   |
|               |                      | _        |                   | _        |                   |                |                               |              |   |
|               |                      |          |                   |          |                   |                | -                             |              | 1                                       |
|               |                      |          |                   | _        |                   |                | -                             |              |   |
|               |                      | · —      |                   | _        |                   |                |                               |              |   |
| ¹Type: C = C  | oncentration, D = I  | Depleti  | on, RM = Reduced  | d Mat    | rix, MS =         | Masked         | l Sand Grains. <sup>2</sup> l | Location: PL | _ = Pore Lining, M = Matrix.            |
| Hydric Soil I | ndicators:           |          |                   |          |                   |                |                               | Indicator    | rs for Problematic Hydric Soils³:       |
| Histosol      | (A1)                 |          | Polyvalue Be      | low S    | urface (S         | 8) <b>(LRR</b> | R, MLRA 149B)                 | _ 2 cm       | Muck (A10) (LRR K, L, MLRA 149B)        |
| Histic Ep     | oipedon (A2)         |          | Thin Dark Su      | ırface   | (S9) (LRF         | R, MLR         | A 149B)                       |              | t Prairie Redox (A16) (LRR K, L, R)     |
| Black Hi      | stic (A3)            |          | Loamy Muck        | y Mir    | eral (F1)         | (LRR K,        | L)                            |              | Mucky Peat or Peat (S3) (LRR K, L, R)   |
| Hydroge       | en Sulfide (A4)      |          | Loamy Gleye       |          |                   |                |                               |              | Surface (S7) (LRR K, L)                 |
| Stratifie     | d Layers (A5)        |          | Depleted Ma       | atrix (I | <del>-</del> 3)   |                |                               |              | value Below Surface (S8) (LRR K, L)     |
| Deplete       | d Below Dark Surfa   | ice (A1  | 1) Redox Dark     | Surfa    | ce (F6)           |                |                               |              | Dark Surface (S9) <b>(LRR K, L)</b>     |
| Thick Da      | ark Surface (A12)    |          | Depleted Da       | rk Su    | rface (F7)        |                |                               |              | Manganese Masses (F12) (LRR K, L, R)    |
| Sandy M       | lucky Mineral (S1)   |          | Redox Depre       | essior   | ıs (F8)           |                |                               |              | mont Floodplain Soils (F19) (MLRA 149B) |
| Sandy G       | ileyed Matrix (S4)   |          |                   |          |                   |                |                               |              | •                                       |
| Sandy R       | edox (S5)            |          |                   |          |                   |                |                               |              | c Spodic (TA6) (MLRA 144A, 145, 149B)   |
|               | Matrix (S6)          |          |                   |          |                   |                |                               |              | Parent Material (F21)                   |
|               | rface (S7) (LRR R, M | II RA 14 | 19R)              |          |                   |                |                               | -            | Shallow Dark Surface (TF12)             |
| Burk su       | (37) <b>(2)</b> (11) |          | .52,              |          |                   |                |                               | Othe         | r (Explain in Remarks)                  |
|               | of hydrophytic veg   |          | and wetland hyd   | rolog    | y must b          | e presei       | nt, unless disturb            | ed or probl  | ematic.                                 |
| Restrictive L | .ayer (if observed): |          |                   |          |                   |                |                               |              |   |
|               | Type:                |          | None              |          |                   | Hydric         | Soil Present?                 |              | Yes No                                  |
|               | Depth (inches):      |          |                   |          |                   |                |                               |              |   |
| Remarks:      |                      |          |                   |          |                   |                |                               |              | -                                       |
|               |                      |          |                   |          |                   |                |                               |              |   |
|               |                      |          |                   |          |                   |                |                               |              |   |
|               |                      |          |                   |          |                   |                |                               |              |   |
|               |                      |          |                   |          |                   |                |                               |              |   |
|               |                      |          |                   |          |                   |                |                               |              |   |
|               |                      |          |                   |          |                   |                |                               |              |   |
|               |                      |          |                   |          |                   |                |                               |              |   |
|               |                      |          |                   |          |                   |                |                               |              |   |
|               |                      |          |                   |          |                   |                |                               |              |   |
|               |                      |          |                   |          |                   |                |                               |              |   |
|               |                      |          |                   |          |                   |                |                               |              |   |
|               |                      |          |                   |          |                   |                |                               |              |   |
|               |                      |          |                   |          |                   |                |                               |              |   |
|               |                      |          |                   |          |                   |                |                               |              |   |
|               |                      |          |                   |          |                   |                |                               |              |   |
|               |                      |          |                   |          |                   |                |                               |              |   |
|               |                      |          |                   |          |                   |                |                               |              |   |
|               |                      |          |                   |          |                   |                |                               |              |   |
|               |                      |          |                   |          |                   |                |                               |              |   |
|               |                      |          |                   |          |                   |                |                               |              |   |
|               |                      |          |                   |          |                   |                |                               |              |   |
|               |                      |          |                   |          |                   |                |                               |              |   |



Photo of Sample Plot South



Photo of Sample Plot West



| Project/Site: Flat Creek Solar Pro   | ject                            | City/County: Cana   | ajoharie, Montgomery Cou   | ınty   | Sampling Date: 20   | 21-Sept-15              |
|--|---------------------------------|---|--|--|---|-------------------------|
| Applicant/Owner: SunEast   |                                 |   | State: NY  |  | Sampling Point: W-N   | SD-26_UPL-1             |
| Investigator(s): Nick DeJohn, Al   | oi Light                        |   | Section, Township,   | Range: NA  | 4   |                         |
| Landform (hillslope, terrace, etc.):   | Flat                            |   | Local relief (concave, conv  | /ex, none):_   | Undulating  | Slope (%): 0 to 1       |
| Subregion (LRR or MLRA): LI  | RR L                            |   | Lat: 42.842895384  | Long:  | -74.5164944977  | Datum: WGS84            |
| Soil Map Unit Name: Fluvaque   | nts, loamy                      |   |  |  | NWI classificatio   | n:                      |
| Are climatic/hydrologic conditions   | s on the site typica            | l for this time of ye   | ar? Yes <u>✓</u> No  | (If no   | , explain in Remarks.)  |                         |
| Are Vegetation, Soil,  |                                 | significantly dis   |  |  | •   | Yes No                  |
| Are Vegetation, Soil,  | or Hydrology _                  | naturally probl   | ematic? (If needed,  | explain any  | y answers in Remarks  | .)                      |
| SUMMARY OF FINDINGS – A  | ttach site map s                | showing samplin   | ng point locations, trar   | nsects, im   | portant features,   | etc.                    |
| Hydrophytic Vegetation Present?  | Yes _                           | No  |  |  |   |                         |
| Hydric Soil Present?   | Yes _                           | No <b>/</b> _   | Is the Sampled Area withi  | in a Wetland   | d? Ye   | s No⁄_                  |
| Wetland Hydrology Present?   | Yes _                           | No _ <b>_</b> _   | If yes, optional Wetland Si  | ite ID:  |   |                         |
| Covertype is UPL.  |                                 |   |  |  |   |                         |
| Wetland Hydrology Indicators:  Primary Indicators (minimum of  Surface Water (A1)  High Water Table (A2)  Saturation (A3)  Water Marks (B1)  Sediment Deposits (B2)  Drift Deposits (B3)  Algal Mat or Crust (B4)  Iron Deposits (B5)  Inundation Visible on Aerial In | -<br>-<br>-<br>-<br>-<br>-<br>- | Water-Stained Lea<br>Aquatic Fauna (B1<br>Marl Deposits (B1<br>Hydrogen Sulfide<br>Oxidized Rhizosph<br>Presence of Reduc | 3) 5) Odor (C1) heres on Living Roots (C3) ced Iron (C4) ction in Tilled Soils (C6) e (C7) | Surface<br>Draina<br>Moss T<br>Dry-Se.<br>Crayfis<br>Satural<br>Stuntel<br>Geomo | y Indicators (minimum<br>e Soil Cracks (B6)<br>age Patterns (B10)<br>Frim Lines (B16)<br>asson Water Table (C2)<br>sh Burrows (C8)<br>tion Visible on Aerial I<br>d or Stressed Plants (I<br>orphic Position (D2)<br>w Aquitard (D3)<br>opographic Relief (D4 | )<br>magery (C9)<br>D1) |
| Sparsely Vegetated Concave   | Surface (B8)                    |   |  |  | eutral Test (D5)  | ,                       |
| Field Observations:  |                                 |   |  |  |   |                         |
| Surface Water Present?   | Yes No _                        | <u>✓</u> Depth  | (inches):  |  |   |                         |
| Water Table Present?   | Yes No _                        | ✓ Depth   | (inches):  | Wetland H  | lydrology Present?  | Yes No <b>∠</b>         |
| Saturation Present?  | Yes No _                        |   | (inches):  | -  |   |                         |
| (includes capillary fringe)  |                                 |   |  | -  |   |                         |
| Describe Recorded Data (stream   | gauge, monitoring               | well, aerial photos   | s, previous inspections), if a   | available:   |   |                         |
| Describe recorded bata (stream)  | gaage, monitoring               | 5 Well, derial priotos  | , previous inspections, in c   | avanabic.  |   |                         |
| Remarks:   |                                 |   |  |  |   |                         |

| NI  FAC       | Dominance Test worksheet:  Number of Dominant Species That Are OBL, FACW, or FAC:  Total Number of Dominant Species Across All Strata:  Percent of Dominant Species That Are OBL, FACW, or FAC:  Prevalence Index worksheet:  Total % Cover of:  OBL species OFACW species OFACW species OFACU species UPL species OCOlumn Totals OCOLUMN Totals  | 5 40 Multiply F x 1 = _ x 2 = _ x 3 = _ x 4 = _  | (A) (B) (A/B)  By: 0 0 75  |
|---------------|--|--|--|
| NI            | Are OBL, FACW, or FAC: Total Number of Dominant Species Across All Strata: Percent of Dominant Species That Are OBL, FACW, or FAC: Prevalence Index worksheet: Total % Cover of: OBL species OFACW species OFAC species FACU species UPL species OCOlumn Totals OCOLUMN Totals OCOLUMN Totals OCOLUMN Totals OCOLUMN Totals  | 5  40  Multiply F  x 1 = x 2 = x 3 =   | (B)<br>(A/B)<br>By:<br>0   |
| ver           | Total Number of Dominant Species Across All Strata: Percent of Dominant Species That Are OBL, FACW, or FAC: Prevalence Index worksheet: Total % Cover of: OBL species OFACW species OFAC species FAC species UPL species OCOLUMN Totals OCOLUMN Totals   | 40  Multiply E x 1 = x 2 = x 3 =   | (A/B)  By:  0 0  |
|               | Across All Strata: Percent of Dominant Species That Are OBL, FACW, or FAC: Prevalence Index worksheet: Total % Cover of: OBL species OFACW species FAC species FACU species UPL species Column Totals OBL SPECIES OFACU SPECIES OF | 40  Multiply E x 1 = x 2 = x 3 =   | (A/B)  By:  0 0  |
|               | Percent of Dominant Species That Are OBL, FACW, or FAC: Prevalence Index worksheet:  Total % Cover of:  OBL species OFACW species OFAC species FAC species UPL species OCOLUMN Totals OSCIENTIAL   | Multiply E<br>x 1 =<br>x 2 =<br>x 3 =  | B <b>y:</b> 0 0  |
|               | Are OBL, FACW, or FAC:  Prevalence Index worksheet:  Total % Cover of:  OBL species OFACW species OFAC species FAC species DEACU | Multiply E<br>x 1 =<br>x 2 =<br>x 3 =  | B <b>y:</b> 0 0  |
|               | Total % Cover of:           OBL species         0           FACW species         0           FAC species         25           FACU species         40           UPL species         0           Column Totals         65   | x 1 =<br>x 2 =<br>x 3 =  | 0  |
|               | - OBL species 0 FACW species 0 FAC species 25 - FACU species 40 - UPL species 0 - Column Totals 65   | x 1 =<br>x 2 =<br>x 3 =  | 0  |
|               | FACW species         0           FAC species         25           FACU species         40           UPL species         0           Column Totals         65   | x 1 =<br>x 2 =<br>x 3 =  | 0  |
|               | FAC species         25           FACU species         40           UPL species         0           Column Totals         65  | x 3 =  |  |
| FAC           | - FACU species 40 - UPL species 0 - Column Totals 65   | _  | 75   |
| FAC           | - UPL species 0 - Column Totals 65   | x 4 =  |  |
|               | - UPL species 0 - Column Totals 65   | _  | 160  |
|               | - Column Totals 65   | x 5 =  | 0  |
|               |  | (A)  | 235 (B)  |
|               |  | 3.6  | 233 (0)  |
|               |  |  |  |
|               | Hydrophytic Vegetation Indicators:   |  |  |
|               | 1- Rapid Test for Hydrophytic  | vegetation   |  |
| ver           | 2 - Dominance Test is > 50%  |  |  |
|               | 3 - Prevalence Index is ≤ 3.01   | 1 (D   |  |
| FACU          |  |  | supporting   |
| FACU          | -  |  | nlain)   |
| FAC           |  |  |  |
|               | -  | -  | y must be  |
|               |  | matic  |  |
|               | _  | r more in d  | liameter at  |
|               |  |  | nameter at   |
|               | <del>-</del>   | -  | BH and   |
|               | _   • • • • • • • • • • • • • • • • • •  |  |  |
| -             | _   -  |  | ardless of   |
|               | -  |  |  |
|               | Woody vines – All woody vines grea   | ter than 3.2   | 28 ft in   |
| wor           | height.  |  |  |
| , vei         | Hydrophytic Vegetation Present?  | Yes N  | 0  |
|               |  |  |  |
|               | -  |  |  |
| · <del></del> | -  |  |  |
|               | -  |  |  |
|               | -  |  |  |
| ver           |  |  |  |
|               | FACU   | data in Remarks or on a separate sl Problematic Hydrophytic Vege Indicators of hydric soil and wetlar present, unless disturbed or proble Definitions of Vegetation Strata: Tree – Woody plants 3 in. (7.6 cm) o breast height (DBH), regardless of h Sapling/shrub – Woody plants less t greater than or equal to 3.28 ft (1 m Herb – All herbaceous (non-woody) size, and woody plants less than 3.2 Woody vines – All woody vines great height. Hydrophytic Vegetation Present? | FACU FAC Problematic Hydrophytic Vegetation¹ (Expresent, unless disturbed or problematic Definitions of Vegetation Strata: Tree – Woody plants 3 in. (7.6 cm) or more in depresent height (DBH), regardless of height. Sapling/shrub – Woody plants less than 3 in. Degreater than or equal to 3.28 ft (1 m) tall. Herb – All herbaceous (non-woody) plants, regesize, and woody plants less than 3.28 ft tall. Woody vines – All woody vines greater than 3.3 height. Hydrophytic Vegetation Present? Yes N |

| Profile Desc            | cription: (Describe         | to the de |                  |          |                   | indicato          | r or confirm the a  | absence of in   | dicators.)                                    |
|-------------------------|-----------------------------|-----------|------------------|----------|-------------------|-------------------|---------------------|-----------------|---|
| Depth _                 | Matrix                      |           | Redox            | Feat     | ures              |                   |                     |                 |   |
| (inches)                | Color (moist)               | %         | Color (moist)    | %        | Type <sup>1</sup> | Loc <sup>2</sup>  | Texture             | <u>!</u>        | Remarks                                       |
| 0 - 20                  | 10YR 3/2                    | 100       |                  | _        |                   |                   | Silt Loan           | m               |   |
|                         |                             |           |                  |          |                   |                   |                     |                 |   |
|                         |                             |           |                  | _        |                   |                   |                     |                 |   |
|                         |                             |           |                  | _        |                   |                   | -                   |                 | _   |
|                         |                             |           |                  | _        |                   |                   | -                   |                 |   |
|                         |                             |           |                  | _        |                   |                   |                     |                 |   |
|                         |                             | · —       |                  | _        |                   |                   |                     |                 |   |
|                         |                             |           |                  | _        |                   |                   |                     |                 |   |
|                         |                             |           |                  | _        |                   |                   |                     |                 |   |
|                         |                             |           |                  | _        |                   |                   |                     |                 |   |
|                         |                             |           |                  | _        |                   |                   |                     |                 |   |
|                         |                             |           |                  |          |                   |                   |                     |                 |   |
|                         |                             |           |                  | _        |                   |                   |                     |                 |   |
| ¹Tvpe: C = C            | ioncentration, D = 1        | Depletio  | n. RM = Reduced  | —<br>Mat | rix. MS =         | Masked            | Sand Grains 21      | l ocation: PL = | Pore Lining, M = Matrix.                      |
| Hydric Soil             |                             | - ср.сс.о | .,               |          | ,                 | Masica            | . 54.14 (14.115)    |                 | for Problematic Hydric Soils <sup>3</sup> :   |
| Histosol                |                             |           | Polyvalue Bel    | ۱۸۰ C    | iurface (C        | (8) <b>(I D</b> D | R MIRA 1/OR)        |                 | •   |
|                         | oipedon (A2)                |           | Polyvalue Bei    |          |                   |                   |                     |                 | luck (A10) (LRR K, L, MLRA 149B)              |
| Black Hi                |                             |           | Loamy Mucky      |          |                   |                   |                     |                 | Prairie Redox (A16) (LRR K, L, R)             |
|                         | en Sulfide (A4)             |           | Loamy Gleyed     |          |                   | (LIXIX IX,        | L)                  |                 | lucky Peat or Peat (S3) <b>(LRR K, L, R)</b>  |
|                         | d Layers (A5)               |           | Depleted Mat     |          |                   |                   |                     |                 | urface (S7) <b>(LRR K, L)</b>                 |
|                         | d Below Dark Surfa          |           |                  |          |                   |                   |                     | -               | lue Below Surface (S8) <b>(LRR K, L)</b>      |
|                         | ark Surface (A12)           |           | Depleted Dar     |          |                   | )                 |                     |                 | ark Surface (S9) <b>(LRR K, L)</b>            |
|                         | lucky Mineral (S1)          |           | Redox Depres     |          |                   | ,                 |                     | Iron-M          | anganese Masses (F12) (LRR K, L, R)           |
|                         | ileyed Matrix (S4)          |           | Redox Bepre      | ,5,0,1   | 13 (1 0)          |                   |                     | Piedmo          | ont Floodplain Soils (F19) <b>(MLRA 149B)</b> |
| -                       | edox (S5)                   |           |                  |          |                   |                   |                     | Mesic S         | Spodic (TA6) <b>(MLRA 144A, 145, 149B)</b>    |
| _                       |                             |           |                  |          |                   |                   |                     | Red Pa          | rent Material (F21)                           |
|                         | d Matrix (S6)               |           |                  |          |                   |                   |                     | Very Sl         | nallow Dark Surface (TF12)                    |
| Dark Su                 | rface (S7) <b>(LRR R, M</b> | 1LRA 149  | 9B)              |          |                   |                   |                     | Other (         | (Explain in Remarks)                          |
| <sup>3</sup> Indicators | of hydrophytic veg          | etation a | and wetland hydr | olog     | y must b          | e preser          | nt, unless disturbe | ed or probler   | matic.  |
| Restrictive I           | ayer (if observed):         |           |                  |          |                   |                   |                     |                 |   |
|                         | Type:                       |           | None             |          |                   | Hydric            | Soil Present?       | Ye              | es No⁄_                                       |
|                         | Depth (inches):             | -         |                  |          |                   |                   |                     |                 |   |
|                         | Deptir (menes).             | _         |                  |          |                   |                   |                     | <del></del>     |   |
| Remarks:                |                             |           |                  |          |                   |                   |                     |                 |   |
|                         |                             |           |                  |          |                   |                   |                     |                 |   |
|                         |                             |           |                  |          |                   |                   |                     |                 |   |
|                         |                             |           |                  |          |                   |                   |                     |                 |   |
|                         |                             |           |                  |          |                   |                   |                     |                 |   |
|                         |                             |           |                  |          |                   |                   |                     |                 |   |
|                         |                             |           |                  |          |                   |                   |                     |                 |   |
|                         |                             |           |                  |          |                   |                   |                     |                 |   |
|                         |                             |           |                  |          |                   |                   |                     |                 |   |
|                         |                             |           |                  |          |                   |                   |                     |                 |   |
|                         |                             |           |                  |          |                   |                   |                     |                 |   |
|                         |                             |           |                  |          |                   |                   |                     |                 |   |
|                         |                             |           |                  |          |                   |                   |                     |                 |   |
|                         |                             |           |                  |          |                   |                   |                     |                 |   |
|                         |                             |           |                  |          |                   |                   |                     |                 |   |
|                         |                             |           |                  |          |                   |                   |                     |                 |   |
|                         |                             |           |                  |          |                   |                   |                     |                 |   |
|                         |                             |           |                  |          |                   |                   |                     |                 |   |
|                         |                             |           |                  |          |                   |                   |                     |                 |   |
|                         |                             |           |                  |          |                   |                   |                     |                 |   |
|                         |                             |           |                  |          |                   |                   |                     |                 |   |
|                         |                             |           |                  |          |                   |                   |                     |                 |   |



Photo of Sample Plot East



Photo of Sample Plot South



| Project/Site: Flat Creek Solar Pro                 | oject               | City/County: Cana                        | ajoharie, Montgomery Cou     | inty Sampling Dat                             | <b>te:</b> 2021-Sept-16 |
|--|---------------------|--|------------------------------|---|-------------------------|
| Applicant/Owner: SunEast                           |                     |  | State: NY                    | Sampling Point                                | : W-NSD-27_PSS-1        |
| Investigator(s): Nick DeJohn, A                    | bi Light            |  | Section, Township,           | Range: NA                                     |                         |
| Landform (hillslope, terrace, etc.)                | ): Channel          | _  | Local relief (concave, conv  | vex, none): Concave                           | Slope (%): 0 to 1       |
| Subregion (LRR or MLRA): L                         | .RR L               | <del>.</del>                             | Lat: 42.841897811            | 8 <b>Long:</b> -74.517793022                  | Datum: WGS84            |
| Soil Map Unit Name: Illion silt                    | loam, 3 to 8 per    | ent slopes                               |                              | NWI class                                     | ification:              |
| Are climatic/hydrologic condition                  | is on the site typi | ical for this time of yea                | ar? Yes <u></u> ✓ No         | (If no, explain in Ren                        | narks.)                 |
| Are Vegetation, Soil,                              | or Hydrology        | / significantly dis                      | sturbed? Are "Norm           | al Circumstances" present                     | ? Yes No                |
| Are Vegetation, Soil,                              | or Hydrology        | / naturally probl                        | ematic? (If needed,          | explain any answers in Re                     | marks.)                 |
| SUMMARY OF FINDINGS – A                            | Attach site ma      | p showing samplir                        | ng point locations, tra      | nsects, important feat                        | ures, etc.              |
| Hydrophytic Vegetation Present                     | ? Yes               | s _ <b>✓</b> _ No                        |                              |   |                         |
| Hydric Soil Present?                               | Yes                 | S _ <b>✓</b> _ No                        | Is the Sampled Area with     | n a Wetland?                                  | Yes No                  |
| Wetland Hydrology Present?                         | Yes                 | 5 No                                     | If yes, optional Wetland S   | ite ID:                                       | W-NSD-27                |
| HYDPOLOGY  |                     |  |                              |   |                         |
| HYDROLOGY  |                     |  |                              |   |                         |
| Wetland Hydrology Indicators:                      |                     |  |                              |   |                         |
| Primary Indicators (minimum of                     | one is required;    | check all that apply)                    |                              | Secondary Indicators (min                     | nimum of two required)  |
| Surface Water (A1)                                 |                     | Water-Stained Lea                        | ives (R9)                    | Surface Soil Cracks (B                        | •                       |
| High Water Table (A2)                              | •                   | Aquatic Fauna (B1                        |                              | Drainage Patterns (B1                         |                         |
| ✓ Saturation (A3)                                  |                     | Marl Deposits (B1!                       |                              | Moss Trim Lines (B16)                         |                         |
| Water Marks (B1)                                   |                     | Hydrogen Sulfide                         | Odor (C1)                    | Dry-Season Water Tab<br>Crayfish Burrows (C8) |                         |
| Sediment Deposits (B2)                             |                     | •  | neres on Living Roots (C3)   | Saturation Visible on A                       |                         |
| Drift Deposits (B3)                                |                     | Presence of Reduc                        |                              | Stunted or Stressed P                         |                         |
| Algal Mat or Crust (B4)<br>Iron Deposits (B5)      |                     |  | tion in Tilled Soils (C6)    | Geomorphic Position                           | (D2)                    |
| Iron Deposits (B3)<br>Inundation Visible on Aerial | Imagery (B7)        | Thin Muck Surface<br>Other (Explain in R |                              | Shallow Aquitard (D3)                         |                         |
| Sparsely Vegetated Concave                         | 0 ,                 | Other (Explain III )                     | terriarits)                  | Microtopographic Rel                          | ief (D4)                |
| = 1 3 0  |                     |  |                              | <u>✓</u> FAC-Neutral Test (D5)                |                         |
| Field Observations:                                | Voc. N-             | / Daniel                                 | (in shos).                   |   |                         |
| Surface Water Present?                             | Yes No              | •  | (inches):                    |   |                         |
| Water Table Present?                               | Yes 🟒 No            |  | (inches): 3                  | Wetland Hydrology Prese                       | ent? Yes No             |
| Saturation Present?                                | Yes 🟒 No            | Depth                                    | (inches): 0                  | =   |                         |
| (includes capillary fringe)                        |                     |  |                              |   |                         |
| Describe Recorded Data (stream Remarks:            | 1 gauge, monitor    | ing well, aerial photos                  | s, previous inspections), if | available:                                    |                         |
|  |                     |  |                              |   |                         |

| Tree Stratum (Plot size: <u>30 ft</u> )          |    | Dominant<br>Species? | Indicator<br>Status | Number of Dominant S<br>Are OBL, FACW, or FAC | Species That              | 4                       | (A)         |
|--|----|----------------------|---------------------|---|---------------------------|-------------------------|-------------|
| 1<br>2   |    |                      |                     | Total Number of Domi                          |                           | 4                       | (B)         |
| 3.<br>   |    |                      |                     | Percent of Dominant S  Are OBL, FACW, or FAC  |                           | 100                     | (A/B)       |
| 5  |    |                      |                     | Prevalence Index work                         |                           |                         |             |
| 5  |    |                      |                     | Total % Cover                                 | of:                       | Multiply E              | <u>By:</u>  |
| 7  |    |                      |                     | OBL species                                   | 10                        | x 1 =                   | 10          |
|  | 0  | = Total Cov          | er                  | FACW species                                  | 70                        | x 2 =                   | 140         |
| Sapling/Shrub Stratum (Plot size: <u>15 ft</u> ) |    |                      |                     | FAC species                                   | 55                        | x 3 =                   | 165         |
| . Cornus racemosa                                | 30 | Yes                  | FAC                 | FACU species                                  | 0                         | x 4 =                   | 0           |
| . Cornus amomum                                  | 10 | Yes                  | FACW                | UPL species                                   | 0                         | x 5 =                   | 0           |
| 3. <u>Viburnum dentatum</u>                      | 10 | Yes                  | FAC                 | Column Totals                                 | 135                       | _                       | 315 (B)     |
| i  |    |                      |                     | -   |                           | (A) _                   | 313 (B)     |
|  |    |                      |                     | Prevalence Ir                                 | idex = B/A =              | 2.3                     | <del></del> |
| 5.   |    |                      |                     | Hydrophytic Vegetation                        | n Indicators:             |                         |             |
| ·  |    |                      |                     | 1- Rapid Test for I                           | ا Jydrophytic             | egetation/              |             |
|  | 50 | = Total Cov          | or                  | _ <b>✓</b> 2 - Dominance Te                   | st is >50%                |                         |             |
| Louis Churchium (Diet einer Eff                  |    | _ TOTAL COV          | CI                  | 3 - Prevalence Inc                            | lex is $\leq 3.0^{\circ}$ |                         |             |
| Herb Stratum (Plot size:5 ft)                    | 60 | V                    | EA CIA/             | 4 - Morphological                             | Adaptations               | <sup>1</sup> (Provide s | upporting   |
| . Onoclea sensibilis                             | 60 | Yes                  | FACW                | - data in Remarks or on                       | a separate sh             | neet)                   |             |
| . Typha angustifolia                             | 10 | No                   | OBL                 | Problematic Hydr                              | ophytic Vege              | tation¹ (Ex             | olain)      |
| B. Pycnanthemum tenuifolium                      | 10 | No                   | FAC                 | Indicators of hydric so                       | il and wetlan             | d hydrolog              | y must be   |
| Euthamia graminifolia                            | 5  | No                   | FAC                 | present, unless disturb                       | ed or proble              | matic                   |             |
| 5.   |    |                      |                     | Definitions of Vegetation                     | on Strata:                |                         |             |
| 5  |    |                      |                     | Tree – Woody plants 3                         | in. (7.6 cm) oi           | r more in d             | iameter a   |
| 7.   |    |                      |                     | breast height (DBH), re                       |                           |                         |             |
| 3.   |    |                      |                     | Sapling/shrub - Woody                         |                           |                         | BH and      |
| ).   |    |                      |                     | greater than or equal t                       | -                         |                         |             |
|  |    |                      |                     | Herb – All herbaceous                         |                           |                         | ardless of  |
|  |    |                      |                     | size, and woody plants                        |                           |                         |             |
| -  |    |                      |                     | Woody vines - All wood                        |                           |                         | 28 ft in    |
| 2  |    |                      |                     | height.                                       | , ,                       |                         |             |
|  | 85 | = Total Cov          | er                  | Hydrophytic Vegetatio                         | n Drocont2                | /os / N                 | 2           |
| Voody Vine Stratum (Plot size: <u>30 ft</u> )    |    |                      |                     | Tiyuropriytic vegetatio                       | ii rieseii:               | 162 14                  | <i></i>     |
| ·  |    |                      |                     | -   |                           |                         |             |
| •  |    |                      |                     | _   |                           |                         |             |
|  |    |                      |                     | _   |                           |                         |             |
| 3.   |    |                      |                     | _ [   |                           |                         |             |
| 3.<br>4.   |    |                      |                     |   |                           |                         |             |

| Color (moist)   Matrix   Redox Features  |      | rs.)                         | absence of indicato | r or confirm the          | ndicato          |                   |            | =                | to the de | cription: (Describe          | Profile Des  |
|--|------|------------------------------|---------------------|---------------------------|------------------|-------------------|------------|------------------|-----------|------------------------------|--------------|
| 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1  |      |                              |                     |                           |                  | ures              | Feat       | Redox            |           | Matrix                       | Depth        |
| 3 - 14   |      | Remarks                      | cture               | Tex                       | Loc <sup>2</sup> | Type <sup>1</sup> | %          | Color (moist)    | %         | Color (moist)                | (inches)     |
| 3 - 14   |      |                              | ay Loam             | Silty Cla                 |                  |                   |            |                  | 100       | 10YR 3/1                     | 0 - 3        |
| 1Type: C = Concentration, D = Depletion, RM = Reduced Matrix, MS = Masked Sand Grains. <sup>2</sup> Location: PL = Pore Lining, M = Matrix.  Hydric Soil Indicators:  Histosol (A1)  Histos Epipedon (A2)  Black Histic (A3)  Hydrogen Sulfide (A4)  Loamy Mucky Mineral (F1) (LRR K, L)  Stratified Layers (A5)  Depleted Below Dark Surface (A11)  Depleted Below Dark Surface (A11)  Polyvalue Below Surface (F5)  M Silty Clay Loam  Silty Clay Loam  All Silty Clay Loam  Silty Clay Loam  Loamy Maked Sand Grains. <sup>2</sup> Location: PL = Pore Lining, M = Matrix.  Indicators for Problematic Hydric Soils <sup>3</sup> :  1   |      |                              |                     |                           | М                |                   | 2          | 7.5YR 4/6        | 98        | 10YR 3/1                     | 3 - 14       |
| 1Type: C = Concentration, D = Depletion, RM = Reduced Matrix, MS = Masked Sand Grains.  2Location: PL = Pore Lining, M = Matrix.  Hydric Soil Indicators: Indicators for Problematic Hydric Soils <sup>3</sup> :  Histosol (A1) — Polyvalue Below Surface (S8) (LRR R, MLRA 149B)  Histic Epipedon (A2) — Thin Dark Surface (S9) (LRR R, MLRA 149B) — Coast Prairie Redox (A16) (LRR K, L, R)  Black Histic (A3) — Loamy Mucky Mineral (F1) (LRR K, L) — 5 cm Mucky Peat or Peat (S3) (LRR K, L, R)  Stratified Layers (A5) — Depleted Matrix (F2) — Dark Surface (S7) (LRR K, L)  Polyvalue Below Dark Surface (A11) / Redox Dark Surface (F6) — Polyvalue Below Surface (S8) (LRR K, L)  Polyvalue Below Surface (S8) (LRR K, L) |      |                              |                     |                           |                  |                   |            | -                |           |                              | 14 - 20      |
| Hydric Soil Indicators:  Histosol (A1)  Polyvalue Below Surface (S8) (LRR R, MLRA 149B)  Histic Epipedon (A2)  Black Histic (A3)  Hydrogen Sulfide (A4)  Stratified Layers (A5)  Depleted Matrix (F3)  Depleted Below Dark Surface (A11)  Polyvalue Below Surface (S9) (LRR R, MLRA 149B)  2 cm Muck (A10) (LRR K, L, MLRA 149B)  Coast Prairie Redox (A16) (LRR K, L, R)  5 cm Mucky Peat or Peat (S3) (LRR K, L, R)  Dark Surface (S7) (LRR K, L)  Polyvalue Below Surface (S8) (LRR K, L)   |      |                              | ay Louin            | Jilly Cit                 |                  |                   | - <u> </u> | 1011(3/0         |           | 1011(3/2                     |              |
| Hydric Soil Indicators:  Histosol (A1)  Polyvalue Below Surface (S8) (LRR R, MLRA 149B)  Histic Epipedon (A2)  Black Histic (A3)  Hydrogen Sulfide (A4)  Stratified Layers (A5)  Depleted Matrix (F3)  Depleted Below Dark Surface (A11)  Polyvalue Below Surface (S9) (LRR R, MLRA 149B)  2 cm Muck (A10) (LRR K, L, MLRA 149B)  Coast Prairie Redox (A16) (LRR K, L, R)  5 cm Mucky Peat or Peat (S3) (LRR K, L, R)  Dark Surface (S7) (LRR K, L)  Polyvalue Below Surface (S8) (LRR K, L)   |      |                              |                     |                           |                  |                   | - —        |                  | · ——      |                              |              |
| Hydric Soil Indicators:  Histosol (A1)  Polyvalue Below Surface (S8) (LRR R, MLRA 149B)  Histic Epipedon (A2)  Black Histic (A3)  Hydrogen Sulfide (A4)  Stratified Layers (A5)  Depleted Matrix (F3)  Depleted Below Dark Surface (A11)  Polyvalue Below Surface (S9) (LRR R, MLRA 149B)  2 cm Muck (A10) (LRR K, L, MLRA 149B)  Coast Prairie Redox (A16) (LRR K, L, R)  5 cm Mucky Peat or Peat (S3) (LRR K, L, R)  Dark Surface (S7) (LRR K, L)  Polyvalue Below Surface (S8) (LRR K, L)   |      |                              |                     |                           |                  |                   | - —        |                  |           |                              |              |
| Hydric Soil Indicators:  Histosol (A1)  Polyvalue Below Surface (S8) (LRR R, MLRA 149B)  Histic Epipedon (A2)  Black Histic (A3)  Hydrogen Sulfide (A4)  Stratified Layers (A5)  Depleted Matrix (F3)  Depleted Below Dark Surface (A11)  Polyvalue Below Surface (S9) (LRR R, MLRA 149B)  2 cm Muck (A10) (LRR K, L, MLRA 149B)  Coast Prairie Redox (A16) (LRR K, L, R)  5 cm Mucky Peat or Peat (S3) (LRR K, L, R)  Dark Surface (S7) (LRR K, L)  Polyvalue Below Surface (S8) (LRR K, L)   |      |                              |                     |                           |                  |                   | - —        |                  |           |                              |              |
| Hydric Soil Indicators:  Histosol (A1)  Polyvalue Below Surface (S8) (LRR R, MLRA 149B)  Histic Epipedon (A2)  Black Histic (A3)  Hydrogen Sulfide (A4)  Stratified Layers (A5)  Depleted Matrix (F3)  Depleted Below Dark Surface (A11)  Polyvalue Below Surface (S9) (LRR R, MLRA 149B)  2 cm Muck (A10) (LRR K, L, MLRA 149B)  Coast Prairie Redox (A16) (LRR K, L, R)  5 cm Mucky Peat or Peat (S3) (LRR K, L, R)  Dark Surface (S7) (LRR K, L)  Polyvalue Below Surface (S8) (LRR K, L)   |      |                              |                     |                           |                  |                   |            |                  |           |                              |              |
| Hydric Soil Indicators:  Histosol (A1)  Polyvalue Below Surface (S8) (LRR R, MLRA 149B)  Histic Epipedon (A2)  Black Histic (A3)  Hydrogen Sulfide (A4)  Stratified Layers (A5)  Depleted Matrix (F3)  Depleted Below Dark Surface (A11)  Polyvalue Below Surface (S9) (LRR R, MLRA 149B)  2 cm Muck (A10) (LRR K, L, MLRA 149B)  Coast Prairie Redox (A16) (LRR K, L, R)  5 cm Mucky Peat or Peat (S3) (LRR K, L, R)  Dark Surface (S7) (LRR K, L)  Polyvalue Below Surface (S8) (LRR K, L)   |      |                              |                     |                           |                  |                   |            |                  |           |                              |              |
| Hydric Soil Indicators:  Histosol (A1)  Polyvalue Below Surface (S8) (LRR R, MLRA 149B)  Histic Epipedon (A2)  Black Histic (A3)  Hydrogen Sulfide (A4)  Stratified Layers (A5)  Depleted Matrix (F3)  Depleted Below Dark Surface (A11)  Polyvalue Below Surface (S9) (LRR R, MLRA 149B)  2 cm Muck (A10) (LRR K, L, MLRA 149B)  Coast Prairie Redox (A16) (LRR K, L, R)  5 cm Mucky Peat or Peat (S3) (LRR K, L, R)  Dark Surface (S7) (LRR K, L)  Polyvalue Below Surface (S8) (LRR K, L)   |      |                              |                     |                           |                  |                   | _          |                  |           |                              |              |
| Hydric Soil Indicators:  Histosol (A1)  Polyvalue Below Surface (S8) (LRR R, MLRA 149B)  Histic Epipedon (A2)  Black Histic (A3)  Hydrogen Sulfide (A4)  Stratified Layers (A5)  Depleted Matrix (F3)  Depleted Below Dark Surface (A11)  Polyvalue Below Surface (S9) (LRR R, MLRA 149B)  2 cm Muck (A10) (LRR K, L, MLRA 149B)  Coast Prairie Redox (A16) (LRR K, L, R)  5 cm Mucky Peat or Peat (S3) (LRR K, L, R)  Dark Surface (S7) (LRR K, L)  Polyvalue Below Surface (S8) (LRR K, L)   |      |                              |                     | -                         |                  |                   | _          |                  |           | _                            | -            |
| Hydric Soil Indicators:  Histosol (A1)  Polyvalue Below Surface (S8) (LRR R, MLRA 149B)  Histic Epipedon (A2)  Black Histic (A3)  Hydrogen Sulfide (A4)  Stratified Layers (A5)  Depleted Matrix (F3)  Depleted Below Dark Surface (A11)  Polyvalue Below Surface (S9) (LRR R, MLRA 149B)  2 cm Muck (A10) (LRR K, L, MLRA 149B)  Coast Prairie Redox (A16) (LRR K, L, R)  5 cm Mucky Peat or Peat (S3) (LRR K, L, R)  Dark Surface (S7) (LRR K, L)  Polyvalue Below Surface (S8) (LRR K, L)   |      |                              |                     |                           |                  |                   |            |                  |           |                              |              |
| Hydric Soil Indicators:  Histosol (A1)  Polyvalue Below Surface (S8) (LRR R, MLRA 149B)  Histic Epipedon (A2)  Black Histic (A3)  Hydrogen Sulfide (A4)  Stratified Layers (A5)  Depleted Matrix (F3)  Depleted Below Dark Surface (A11)  Polyvalue Below Surface (S9) (LRR R, MLRA 149B)  2 cm Muck (A10) (LRR K, L, MLRA 149B)  Coast Prairie Redox (A16) (LRR K, L, R)  5 cm Mucky Peat or Peat (S3) (LRR K, L, R)  Dark Surface (S7) (LRR K, L)  Polyvalue Below Surface (S8) (LRR K, L)   |      |                              | <del></del> .       | -                         |                  |                   | - —        |                  |           |                              |              |
| Hydric Soil Indicators:  Histosol (A1)  Polyvalue Below Surface (S8) (LRR R, MLRA 149B)  Histic Epipedon (A2)  Black Histic (A3)  Hydrogen Sulfide (A4)  Stratified Layers (A5)  Depleted Matrix (F3)  Depleted Below Dark Surface (A11)  Polyvalue Below Surface (S9) (LRR R, MLRA 149B)  2 cm Muck (A10) (LRR K, L, MLRA 149B)  Coast Prairie Redox (A16) (LRR K, L, R)  5 cm Mucky Peat or Peat (S3) (LRR K, L, R)  Dark Surface (S7) (LRR K, L)  Polyvalue Below Surface (S8) (LRR K, L)   |      |                              |                     |                           | <del></del> .    |                   | _          |                  |           |                              |              |
| Histosol (A1) Polyvalue Below Surface (S8) (LRR R, MLRA 149B)  Histic Epipedon (A2) Thin Dark Surface (S9) (LRR R, MLRA 149B)  Black Histic (A3) Loamy Mucky Mineral (F1) (LRR K, L)  Hydrogen Sulfide (A4) Loamy Gleyed Matrix (F2)  Stratified Layers (A5) Depleted Matrix (F3)  Depleted Below Dark Surface (A11) A Redox Dark Surface (F6)  2 cm Muck (A10) (LRR K, L, MLRA 149B)  Coast Prairie Redox (A10) (LRR K, L, R)  5 cm Mucky Peat or Peat (S3) (LRR K, L, R)  Dark Surface (S7) (LRR K, L)  Polyvalue Below Surface (S8) (LRR K, L)  |      | Lining, M = Matrix.          | Location: PL = Pore | Sand Grains. <sup>2</sup> | Masked           | rix, MS =         | Mati       | on, RM = Reduced | Depletio  | Concentration, D =           | ¹Type: C = 0 |
| Histic Epipedon (A2)  Thin Dark Surface (S9) (LRR R, MLRA 149B)  Black Histic (A3)  Loamy Mucky Mineral (F1) (LRR K, L)  Hydrogen Sulfide (A4)  Stratified Layers (A5)  Depleted Metrix (F2)  Depleted Metrix (F3)  Depleted Metrix (F3)  Depleted Metrix (F3)  Depleted Metrix (F3)  Depleted Metrix (F3)  Depleted Metrix (F3)  Depleted Metrix (F3)  Depleted Metrix (F3)  Depleted Metrix (F3)  Depleted Metrix (F3)  Depleted Metrix (F3)  Depleted Metrix (F3)  Depleted Metrix (F3)  Depleted Metrix (F3)   |      | oblematic Hydric Soils³:     | Indicators for Pr   |                           |                  |                   |            |                  |           | Indicators:                  | Hydric Soil  |
| <ul> <li>Histic Epipedon (A2)</li> <li>Black Histic (A3)</li> <li>Loamy Mucky Mineral (F1) (LRR K, L)</li> <li>Hydrogen Sulfide (A4)</li> <li>Stratified Layers (A5)</li> <li>Depleted Matrix (F3)</li> <li>Depleted Below Dark Surface (A11) &amp; Redox Dark Surface (F6)</li> <li>Coast Prairie Redox (A16) (LRR K, L, R)</li> <li>5 cm Mucky Peat or Peat (S3) (LRR K, L, R)</li> <li>Dark Surface (S7) (LRR K, L)</li> <li>Polyvalue Below Surface (S8) (LRR K, L)</li> </ul>   | 1    | 410) (I RR K. I. MI RA 149B) | 2 cm Muck (         | R, MLRA 149B)             | 8) <b>(LRR</b>   | urface (S         | low S      | Polyvalue Be     |           | l (A1)                       | Histoso      |
| Black Histic (A3) Loamy Mucky Mineral (F1) (LRR K, L) 5 cm Mucky Peat or Peat (S3) (LRR K, L, R) 5 hydrogen Sulfide (A4) Loamy Gleyed Matrix (F2) Dark Surface (S7) (LRR K, L) Depleted Below Dark Surface (A11)   |      |                              |                     | A 149B)                   | R, MLR           | (S9) (LRF         | rface      | Thin Dark Su     |           | pipedon (A2)                 | Histic E     |
| Hydrogen Sulfide (A4) Loamy Gleyed Matrix (F2) Dark Surface (S7) (LRR K, L) Stratified Layers (A5) Depleted Matrix (F3) Polyvalue Below Surface (S8) (LRR K, L) Polyvalue Below Surface (S8) (LRR K, L)  | D)   |                              | <del></del>         | _)                        | (LRR K, I        | eral (F1)         | y Min      | Loamy Mucky      |           | istic (A3)                   | Black H      |
| Stratified Layers (A5) Depleted Matrix (F3) Polyvalue Below Surface (S8) (LRR K, L)  | 11,  |                              | •                   |                           |                  | trix (F2)         | d Ma       | Loamy Gleye      |           | en Sulfide (A4)              | Hydrog       |
| I Depleted Below Dark Surface (ATT) / Redox Dark Surface (F6)  |      |                              | <del></del>         |                           |                  | -3)               | trix (l    | Depleted Ma      |           | d Layers (A5)                | Stratifie    |
|  |      |                              |                     |                           |                  | ce (F6)           | Surfa      | ) Redox Dark S   | ce (A11)  | d Below Dark Surfa           | Deplete      |
| I INICK DARK SURTACE (A L Z) DENIETEG DARK SURTACE (E Z)   | D)   |                              |                     |                           |                  | face (F7)         | rk Sui     | Depleted Dar     |           | ark Surface (A12)            | Thick D      |
| Fron-Manganese Masses (F12) (LRR K, L, R) Sandy Mucky Mineral (S1) Redox Depressions (F8)  |      |                              | _                   |                           |                  | ıs (F8)           | ssior      | Redox Depre      |           | Mucky Mineral (S1)           | Sandy N      |
| Sandy Midely Millerta (S1) Redox bepressions (10) Piedmont Floodplain Soils (F19) (MLRA 149B   |      |                              |                     |                           |                  |                   |            |                  |           | Gleved Matrix (S4)           | Sandy (      |
| Mesic Spodic (1A6) (MLKA 144A, 145, 149B)  | 49B) |                              |                     |                           |                  |                   |            |                  |           | •                            | -            |
| Stripped Matrix (S6)   |      |                              |                     |                           |                  |                   |            |                  |           |                              | _            |
| very shallow bark surface (1F12)   |      | Dark Surface (TF12)          | Very Shallow        |                           |                  |                   |            | OD)              | II DA 140 |                              |              |
| Dark Surface (S7) (LRR R, MLRA 149B) Other (Explain in Remarks)  |      | in in Remarks)               | Other (Expla        |                           |                  |                   |            | 90)              | ILKA 14:  | irrace (37) <b>(LRR R, N</b> | Dark St      |
| <sup>3</sup> Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.  |      |                              | ed or problematic.  | nt, unless disturb        | e preser         | y must b          | olog       | and wetland hydr | etation a | of hydrophytic veg           | 3Indicators  |
| Restrictive Layer (if observed):   |      |                              |                     |                           |                  |                   |            |                  |           | Layer (if observed):         | Restrictive  |
| Type: None Hydric Soil Present? Yes/_ No   |      | Yes ✓ No                     | ,                   | Soil Present?             | Hydric           |                   |            | None             |           | Type:                        |              |
| Depth (inches):  |      | <del></del>                  |                     |                           | 1                |                   | -          |                  |           |                              |              |
| <del></del>  |      |                              | <del></del> ,       |                           |                  |                   |            |                  | _         | Deptir (interies).           | Domarko      |
| Remarks:   |      |                              |                     |                           |                  |                   |            |                  |           |                              | Remarks:     |
|  |      |                              |                     |                           |                  |                   |            |                  |           |                              |              |
|  |      |                              |                     |                           |                  |                   |            |                  |           |                              |              |
|  |      |                              |                     |                           |                  |                   |            |                  |           |                              |              |
|  |      |                              |                     |                           |                  |                   |            |                  |           |                              |              |
|  |      |                              |                     |                           |                  |                   |            |                  |           |                              |              |
|  |      |                              |                     |                           |                  |                   |            |                  |           |                              |              |
|  |      |                              |                     |                           |                  |                   |            |                  |           |                              |              |
|  |      |                              |                     |                           |                  |                   |            |                  |           |                              |              |
|  |      |                              |                     |                           |                  |                   |            |                  |           |                              |              |
|  |      |                              |                     |                           |                  |                   |            |                  |           |                              |              |
|  |      |                              |                     |                           |                  |                   |            |                  |           |                              |              |
|  |      |                              |                     |                           |                  |                   |            |                  |           |                              |              |
|  |      |                              |                     |                           |                  |                   |            |                  |           |                              |              |
|  |      |                              |                     |                           |                  |                   |            |                  |           |                              |              |
|  |      |                              |                     |                           |                  |                   |            |                  |           |                              |              |
|  |      |                              |                     |                           |                  |                   |            |                  |           |                              |              |
|  |      |                              |                     |                           |                  |                   |            |                  |           |                              |              |
|  |      |                              |                     |                           |                  |                   |            |                  |           |                              | 1            |
|  |      |                              |                     |                           |                  |                   |            |                  |           |                              |              |
|  |      |                              |                     |                           |                  |                   |            |                  |           |                              |              |
|  |      |                              |                     |                           |                  |                   |            |                  |           |                              |              |

Hydrology Photos





Photo of Sample Plot North



Photo of Sample Plot South



| Project/Site: Flat Creek Solar Pro             | ject                 | City/County: Can                            | ajoharie, Montgomery Cou       | inty         | Sampling Date: 202                       | 21-Sept-16        |
|--|----------------------|---|--------------------------------|--------------|--|-------------------|
| Applicant/Owner: SunEast                       |                      |   | State: NY                      |              | Sampling Point: W-NS                     | SD-27_UPL-1       |
| Investigator(s): Nick DeJohn, A                | bi Light             |   | Section, Township,             | Range: NA    | 4  |                   |
| Landform (hillslope, terrace, etc.)            | : Hillslope          |   | Local relief (concave, conv    | /ex, none):  | Convex                                   | Slope (%): 2 to 5 |
| Subregion (LRR or MLRA):                       | RR L                 |   | Lat: 42.841915120              | )4 Long:_    | -74.5179312397                           | Datum: WGS84      |
| Soil Map Unit Name: Illion silt                | loam, 3 to 8 percer  | nt slopes                                   |                                |              | NWI classification                       | n:                |
| Are climatic/hydrologic condition              | s on the site typica | l for this time of ye                       | ar? Yes 🟒 No                   | (If no       | , explain in Remarks.)                   |                   |
| Are Vegetation, Soil,                          | or Hydrology _       | significantly dis                           | sturbed? Are "Norm             | al Circumst  | ances" present?                          | Yes No            |
| Are Vegetation, Soil,                          | or Hydrology _       | naturally probl                             | ematic? (If needed,            | explain any  | y answers in Remarks.                    | .)                |
| SUMMARY OF FINDINGS – A                        |                      |   | ng point locations, tran       | nsects, im   | portant features,                        | etc.              |
| Hydrophytic Vegetation Present                 |                      | No  |                                |              |  |                   |
| Hydric Soil Present?                           |                      | No _ <b>_</b> _                             | Is the Sampled Area withi      | in a Wetland | d? Yes                                   | sNo_ <u>-</u> ∠   |
| Wetland Hydrology Present?                     | Yes _                | No _ <b>_</b> _                             | If yes, optional Wetland S     | ite ID:      |  |                   |
|  |                      |   |                                |              |  |                   |
| HYDROLOGY  Wetland Hydrology Indicators:       |                      |   |                                | Connection   |  |                   |
| Primary Indicators (minimum of                 | one is required; ch  | ieck all that apply)                        |                                | -            | / Indicators (minimum                    | of two required)  |
| Surface Water (A1)                             | _                    | Water-Stained Lea                           | aves (B9)                      |              | e Soil Cracks (B6)<br>ige Patterns (B10) |                   |
| High Water Table (A2)                          |                      | _ Aquatic Fauna (B1                         |                                |              | Frim Lines (B16)                         |                   |
| Saturation (A3)                                |                      | Marl Deposits (B1                           |                                |              | ason Water Table (C2)                    |                   |
| Water Marks (B1)                               | _                    | _ Hydrogen Sulfide                          |                                | -            | sh Burrows (C8)                          |                   |
| Sediment Deposits (B2)                         |                      |   | neres on Living Roots (C3)     | Satura       | tion Visible on Aerial I                 | magery (C9)       |
| Drift Deposits (B3)<br>Algal Mat or Crust (B4) |                      | Presence of Redu                            | ction in Tilled Soils (C6)     | Stunte       | d or Stressed Plants ([                  | D1)               |
| Algai Mat of Crust (B4) Iron Deposits (B5)     |                      | _ Recent from Reduct<br>_ Thin Muck Surface |                                |              | orphic Position (D2)                     |                   |
| Inundation Visible on Aerial I                 | magery (B7)          | Other (Explain in I                         |                                |              | w Aquitard (D3)                          |                   |
| Sparsely Vegetated Concave                     |                      |   | Terriario,                     |              | opographic Relief (D4)                   | )                 |
|  |                      |   |                                | FAC-Ne       | eutral Test (D5)                         |                   |
| Field Observations:                            |                      |   |                                |              |  |                   |
| Surface Water Present?                         | Yes No _             | ·   | (inches):                      | -            |  |                   |
| Water Table Present?                           | Yes No _             | <u>✓</u> Depth                              | (inches):                      | Wetland H    | lydrology Present?                       | Yes No <b>/</b>   |
| Saturation Present?                            | Yes No _             | <u>✓</u> Depth                              | (inches):                      | _            |  |                   |
| (includes capillary fringe)                    |                      |   |                                |              |  |                   |
| Describe Recorded Data (stream Remarks:        | gauge, monitoring    | g well, aerial photo:                       | s, previous inspections), if a | available:   |  |                   |
|  |                      |   |                                |              |  |                   |

| Trace Christians (Diet sines 20 ft )           | Absolute | Dominant    | Indicator | Dominance Test worksheet:            |              |                  |
|--|----------|-------------|-----------|--------------------------------------|--------------|------------------|
| <u>Tree Stratum</u> (Plot size: <u>30 ft</u> ) | % Cover  | Species?    | Status    | Number of Dominant Species Tha       | ıt 1         | (4)              |
| 1.   |          |             |           | Are OBL, FACW, or FAC:               |              | (A)              |
| 2.   |          |             |           | Total Number of Dominant Specie      | es 2         | (B)              |
| 3.   |          |             |           | Across All Strata:                   |              |                  |
| 4.   |          |             |           | Percent of Dominant Species Tha      | t 50         | (A/B)            |
| 5.   |          |             |           | Are OBL, FACW, or FAC:               |              |                  |
| 6.   |          |             |           | Prevalence Index worksheet:          |              |                  |
| 7.   |          |             |           | Total % Cover of:                    | Multiply     | <u>By:</u>       |
| ··   |          | = Total Cov | or        | OBL species 0                        | x 1 =        | 0                |
| Sapling/Shrub Stratum (Plot size:15 ft)        |          | - Total Cov | CI        | FACW species 0                       | x 2 =        | 0                |
|  |          |             |           | FAC species 40                       | x 3 =        | 120              |
| 1  |          |             |           | FACU species 55                      | x 4 =        | 220              |
| 2  |          |             |           | - UPL species 0                      | x 5 =        | 0                |
| 3.   |          |             |           | - Column Totals 95                   | (A)          | 340 (B)          |
| 4  |          |             |           | Prevalence Index = B/A               | = 3.6        |                  |
| 5  |          |             |           | Hydrophytic Vegetation Indicators    | :            |                  |
| 6  |          |             |           | 1- Rapid Test for Hydrophyti         |              | ì                |
| 7  |          |             |           | 2 - Dominance Test is > 50%          | c vegetation | ı                |
|  | 0        | = Total Cov | er        | 3 - Prevalence Index is ≤ 3.0        | 1            |                  |
| Herb Stratum (Plot size: <u>5 ft</u> )         |          |             |           | 4 - Morphological Adaptation         |              | cupporting       |
| 1. Solidago canadensis                         | 40       | Yes         | FACU      | - data in Remarks or on a separate   |              | supporting       |
| 2. Pycnanthemum tenuifolium                    | 30       | Yes         | FAC       | Problematic Hydrophytic Ve           |              | (nlain)          |
| 3. Rudbeckia triloba                           | 15       | No          | FACU      | - Indicators of hydric soil and wetl | _            | -                |
| 4. Cornus racemosa                             | 10       | No          | FAC       | present, unless disturbed or prob    | -            | gy must be       |
| 5.   |          |             |           | Definitions of Vegetation Strata:    | icinatic     |                  |
| 6.   |          |             |           | Tree – Woody plants 3 in. (7.6 cm)   | or more in   | diameter at      |
| 7.   |          |             |           | breast height (DBH), regardless of   |              | ulailletei at    |
| 8.   |          |             |           | Sapling/shrub - Woody plants les     | _            | OBH and          |
| 9.   |          |             |           | greater than or equal to 3.28 ft (1  |              | DIT UTU          |
| 10   |          |             |           | Herb – All herbaceous (non-wood      |              | pardless of      |
|  |          |             |           | size, and woody plants less than 3   |              | 5                |
| 11.  |          |             |           | Woody vines – All woody vines gro    |              | .28 ft in        |
| 12   |          |             |           | height.                              |              |                  |
|  | 95       | = Total Cov | er        | Hydrophytic Vegetation Present?      | Voc N        | lo /             |
| Woody Vine Stratum (Plot size: 30 ft )         |          |             |           | Trydrophytic vegetation Fresent:     | 1631         | NO _ <b>-</b> ⁄_ |
|  |          |             |           | -                                    |              |                  |
| 1  |          |             |           | _                                    |              |                  |
| 1<br>2   |          |             |           |                                      |              |                  |
| 1  |          |             |           | _                                    |              |                  |
| 2.   |          |             |           | -                                    |              |                  |

| Profile Desc            | cription: (Describe         | to the de |                  |          |                   | indicato          | r or confirm the a  | absence of in   | dicators.)                                    |
|-------------------------|-----------------------------|-----------|------------------|----------|-------------------|-------------------|---------------------|-----------------|---|
| Depth _                 | Matrix                      |           | Redox            | Feat     | ures              |                   |                     |                 |   |
| (inches)                | Color (moist)               | %         | Color (moist)    | %        | Type <sup>1</sup> | Loc <sup>2</sup>  | Texture             | <u>!</u>        | Remarks                                       |
| 0 - 20                  | 10YR 3/2                    | 100       |                  | _        |                   |                   | Silt Loan           | m               |   |
|                         |                             |           |                  |          |                   |                   |                     |                 |   |
|                         |                             |           |                  | _        |                   |                   |                     |                 |   |
|                         |                             |           |                  | _        |                   |                   | -                   |                 | _   |
|                         |                             |           |                  | _        |                   |                   | -                   |                 |   |
|                         |                             |           |                  | _        |                   |                   |                     |                 |   |
|                         |                             | · —       |                  | _        |                   |                   |                     |                 |   |
|                         |                             |           |                  | _        |                   |                   |                     |                 |   |
|                         |                             |           |                  | _        |                   |                   |                     |                 |   |
|                         |                             |           |                  | _        |                   |                   |                     |                 |   |
|                         |                             |           |                  | _        |                   |                   |                     |                 |   |
|                         |                             |           |                  |          |                   |                   |                     |                 |   |
|                         |                             |           |                  | _        |                   |                   |                     |                 |   |
| ¹Tvpe: C = C            | ioncentration, D = 1        | Depletio  | n. RM = Reduced  | —<br>Mat | rix. MS =         | Masked            | Sand Grains 21      | l ocation: PL = | Pore Lining, M = Matrix.                      |
| Hydric Soil             |                             | - ср.сс.о | .,               |          | ,                 | Masica            | . 54.14 (14.115)    |                 | for Problematic Hydric Soils <sup>3</sup> :   |
| Histosol                |                             |           | Polyvalue Bel    | ۱۸۰ C    | iurface (C        | (8) <b>(I D</b> D | R MIRA 1/OR)        |                 | •   |
|                         | oipedon (A2)                |           | Polyvalue Bei    |          |                   |                   |                     |                 | luck (A10) (LRR K, L, MLRA 149B)              |
| Black Hi                |                             |           | Loamy Mucky      |          |                   |                   |                     |                 | Prairie Redox (A16) (LRR K, L, R)             |
|                         | en Sulfide (A4)             |           | Loamy Gleyed     |          |                   | (LIXIX IX,        | L)                  |                 | lucky Peat or Peat (S3) <b>(LRR K, L, R)</b>  |
|                         | d Layers (A5)               |           | Depleted Mat     |          |                   |                   |                     |                 | urface (S7) <b>(LRR K, L)</b>                 |
|                         | d Below Dark Surfa          |           |                  |          |                   |                   |                     | -               | lue Below Surface (S8) <b>(LRR K, L)</b>      |
|                         | ark Surface (A12)           |           | Depleted Dar     |          |                   | )                 |                     |                 | ark Surface (S9) <b>(LRR K, L)</b>            |
|                         | lucky Mineral (S1)          |           | Redox Depres     |          |                   | ,                 |                     | Iron-M          | anganese Masses (F12) (LRR K, L, R)           |
|                         | ileyed Matrix (S4)          |           | Redox Bepre      | ,5,0,1   | 13 (1 0)          |                   |                     | Piedmo          | ont Floodplain Soils (F19) <b>(MLRA 149B)</b> |
| -                       | edox (S5)                   |           |                  |          |                   |                   |                     | Mesic S         | Spodic (TA6) <b>(MLRA 144A, 145, 149B)</b>    |
| _                       |                             |           |                  |          |                   |                   |                     | Red Pa          | rent Material (F21)                           |
|                         | d Matrix (S6)               |           |                  |          |                   |                   |                     | Very Sl         | nallow Dark Surface (TF12)                    |
| Dark Su                 | rface (S7) <b>(LRR R, M</b> | 1LRA 149  | 9B)              |          |                   |                   |                     | Other (         | (Explain in Remarks)                          |
| <sup>3</sup> Indicators | of hydrophytic veg          | etation a | and wetland hydr | olog     | y must b          | e preser          | nt, unless disturbe | ed or probler   | matic.  |
| Restrictive I           | ayer (if observed):         |           |                  |          |                   |                   |                     |                 |   |
|                         | Type:                       |           | None             |          |                   | Hydric            | Soil Present?       | Ye              | es No⁄_                                       |
|                         | Depth (inches):             | -         |                  |          |                   |                   |                     |                 |   |
|                         | Deptir (meries).            | _         |                  |          |                   |                   |                     | <del></del> -   |   |
| Remarks:                |                             |           |                  |          |                   |                   |                     |                 |   |
|                         |                             |           |                  |          |                   |                   |                     |                 |   |
|                         |                             |           |                  |          |                   |                   |                     |                 |   |
|                         |                             |           |                  |          |                   |                   |                     |                 |   |
|                         |                             |           |                  |          |                   |                   |                     |                 |   |
|                         |                             |           |                  |          |                   |                   |                     |                 |   |
|                         |                             |           |                  |          |                   |                   |                     |                 |   |
|                         |                             |           |                  |          |                   |                   |                     |                 |   |
|                         |                             |           |                  |          |                   |                   |                     |                 |   |
|                         |                             |           |                  |          |                   |                   |                     |                 |   |
|                         |                             |           |                  |          |                   |                   |                     |                 |   |
|                         |                             |           |                  |          |                   |                   |                     |                 |   |
|                         |                             |           |                  |          |                   |                   |                     |                 |   |
|                         |                             |           |                  |          |                   |                   |                     |                 |   |
|                         |                             |           |                  |          |                   |                   |                     |                 |   |
|                         |                             |           |                  |          |                   |                   |                     |                 |   |
|                         |                             |           |                  |          |                   |                   |                     |                 |   |
|                         |                             |           |                  |          |                   |                   |                     |                 |   |
|                         |                             |           |                  |          |                   |                   |                     |                 |   |
|                         |                             |           |                  |          |                   |                   |                     |                 |   |
|                         |                             |           |                  |          |                   |                   |                     |                 |   |
|                         |                             |           |                  |          |                   |                   |                     |                 |   |



Photo of Sample Plot North



Photo of Sample Plot East



Photo of Sample Plot South



| Project/Site: Flat Creek Solar Pro       | ject                                  | _City/County: Cana                           | ajoharie, Montgomery Cou      | unty               | Sampling Date: 202         | 21-Sept-16        |
|--|---------------------------------------|--|-------------------------------|--------------------|----------------------------|-------------------|
| Applicant/Owner: SunEast                 |                                       |  | State: NY                     | <u> </u>           | Sampling Point: W-NS       | SD-28_PEM-1       |
| Investigator(s): Nick DeJohn, A          | bi Light                              |  | Section, Township             | , Range: NA        |                            |                   |
| Landform (hillslope, terrace, etc.)      | : Depression                          |  | Local relief (concave, con    | vex, none):_       | Concave                    | Slope (%): 0 to 1 |
| Subregion (LRR or MLRA): L               | RR L                                  |  | Lat: 42.838486125             | 57 <b>Long:</b>    | -74.519988997              | Datum: WGS84      |
| Soil Map Unit Name: Illion silt          | loam, 0 to 3 perce                    | nt slopes                                    |                               |                    | NWI classification         | n:                |
| Are climatic/hydrologic condition        |                                       | -  |                               | o (If no,          | explain in Remarks.)       |                   |
| Are Vegetation, Soil,                    |                                       | significantly dis                            |                               |                    | •                          | Yes No            |
| Are Vegetation, Soil,                    | or Hydrology _                        | naturally probl                              | ematic? (If needed            | , explain any      | answers in Remarks.        | )                 |
|  |                                       |  |                               |                    |                            |                   |
| SUMMARY OF FINDINGS – A                  | ttach site map                        | showing samplir                              | ng point locations, tra       | nsects, im         | portant features, e        | etc.              |
| Hydrophytic Vegetation Present           | ? Yes                                 | ✓_ No  |                               |                    |                            |                   |
| Hydric Soil Present?                     |                                       | ✓_ No  | Is the Sampled Area with      | in a Wetland       | l? Yes                     | No                |
|  |                                       |  | ;                             |                    |                            |                   |
| Wetland Hydrology Present?               | · · · · · · · · · · · · · · · · · · · | ✓ No   | If yes, optional Wetland S    | site iD:           | VV-IN                      | SD-28             |
| Remarks: (Explain alternative pro        | ocedures here or i                    | n a separate report                          |                               |                    |                            |                   |
| Covertype is PEM.                        |                                       |  |                               |                    |                            |                   |
| ,  |                                       |  |                               |                    |                            |                   |
|  |                                       |  |                               |                    |                            |                   |
|  |                                       |  |                               |                    |                            |                   |
|  |                                       |  |                               |                    |                            |                   |
|  |                                       |  |                               |                    |                            |                   |
|  |                                       |  |                               |                    |                            |                   |
|  |                                       |  |                               |                    |                            |                   |
|  |                                       |  |                               |                    |                            |                   |
|  |                                       |  |                               |                    |                            |                   |
|  |                                       |  |                               |                    |                            |                   |
|  |                                       |  |                               |                    |                            |                   |
| HYDROLOGY                                |                                       |  |                               |                    |                            |                   |
|  |                                       |  |                               |                    |                            |                   |
| Wetland Hydrology Indicators:            |                                       |  |                               |                    |                            |                   |
|  |                                       |  |                               | Casandan.          | In dianta un (mainime, une | -£                |
| Primary Indicators (minimum of           | one is required; cr                   | neck all that apply)                         |                               | Secondary          | Indicators (minimum        | of two required)  |
| Surface Water (A1)                       |                                       | _ Water-Stained Lea                          | wos (RO)                      | Surface            | Soil Cracks (B6)           |                   |
| Surface Water (A1) High Water Table (A2) |                                       | _ Water-Staffled Lea<br>_ Aquatic Fauna (B1  |                               | Drainag            | ge Patterns (B10)          |                   |
| ✓ Saturation (A3)                        |                                       | _ Aquatic Fauria (B1<br>_ Marl Deposits (B1: |                               | Moss Tr            | rim Lines (B16)            |                   |
| Water Marks (B1)                         |                                       | _ Hydrogen Sulfide                           |                               | Dry-Sea            | ison Water Table (C2)      |                   |
|  | _                                     |  |                               | Crayfish           | n Burrows (C8)             |                   |
| Sediment Deposits (B2)                   |                                       | ·  | neres on Living Roots (C3)    | _ <b>∠</b> Saturat | ion Visible on Aerial Ir   | magery (C9)       |
| Drift Deposits (B3)                      | _                                     | _ Presence of Redu                           |                               | Stunted            | l or Stressed Plants (E    | 01)               |
| Algal Mat or Crust (B4)                  |                                       |  | tion in Tilled Soils (C6)     |                    | rphic Position (D2)        |                   |
| Iron Deposits (B5)                       | _                                     | _ Thin Muck Surface                          |                               |                    | Aquitard (D3)              |                   |
| Inundation Visible on Aerial I           | magery (B7)                           | $_{	extsf{-}}$ Other (Explain in F           | Remarks)                      |                    | pographic Relief (D4)      |                   |
| Sparsely Vegetated Concave               | Surface (B8)                          |  |                               |                    | utral Test (D5)            |                   |
| Field Observations                       |                                       |  |                               | _ <u>√</u> FAC-Ne  | utrai iest (D5)            |                   |
| Field Observations:                      |                                       |  |                               |                    |                            |                   |
| Surface Water Present?                   | Yes No                                |  | (inches):                     | _                  |                            |                   |
| Water Table Present?                     | Yes No                                | Depth  | (inches): 6                   | Wetland H          | ydrology Present?          | Yes No            |
| Saturation Present?                      | Yes 🟒 No _                            | Depth  | (inches): 0                   | _                  |                            |                   |
| (includes capillary fringe)              |                                       |  |                               |                    |                            |                   |
|  | gauga manitarin                       | awall sorial aboto                           | nrouious inspostions) if      | available:         |                            |                   |
| Describe Recorded Data (stream           | i gauge, monitorin                    | g weii, aeriai prioto:                       | s, previous irispections), ii | avaliable.         |                            |                   |
|  |                                       |  |                               |                    |                            |                   |
|  |                                       |  |                               |                    |                            |                   |
|  |                                       |  |                               |                    |                            |                   |
| Remarks:                                 |                                       |  |                               |                    |                            |                   |
|  |                                       |  |                               |                    |                            |                   |
|  |                                       |  |                               |                    |                            |                   |
|  |                                       |  |                               |                    |                            |                   |
|  |                                       |  |                               |                    |                            |                   |
|  |                                       |  |                               |                    |                            |                   |
|  |                                       |  |                               |                    |                            |                   |
|  |                                       |  |                               |                    |                            |                   |
|  |                                       |  |                               |                    |                            |                   |
|  |                                       |  |                               |                    |                            |                   |

| <u>Tree Stratum</u> (Plot size: <u>30 ft</u> )<br>1. |    | Dominant<br>Species? | Indicator<br>Status | Dominance Test works Number of Dominant S Are OBL, FACW, or FAC | Species That    | 2            | (A)         |
|--|----|----------------------|---------------------|---|-----------------|--------------|-------------|
| 2.   |    |                      |                     | Total Number of Domi  |                 | 2            | (B)         |
| 3.<br>4.   |    |                      |                     | Percent of Dominant S  Are OBL, FACW, or FAC                    |                 | 100          | (A/B)       |
| 5  |    |                      |                     | Prevalence Index work   |                 |              |             |
| 6  |    |                      |                     | Total % Cover   |                 | Multiply I   | Bv:         |
| 7  |    |                      |                     | - OBL species   | <br>5           | x 1 =        | 5           |
|  | 0  | = Total Cove         | er                  | FACW species  | 55              | x 2 =        | 110         |
| Sapling/Shrub Stratum (Plot size: 15 ft )            |    |                      |                     | FAC species   | 30              | x 3 =        | 90          |
| 1  |    |                      |                     | FACU species  | 5               | x 4 =        | 20          |
| 2.   |    |                      |                     | UPL species   | 0               | x 5 =        | 0           |
| 3  |    |                      |                     | Column Totals   | 95              | (A)          | 225 (B)     |
| 4.   |    |                      |                     | Prevalence Ir   |                 | 2.4          | (۵) دعـــ   |
| 5.   |    |                      |                     |   |                 |              | <del></del> |
| 6.   |    |                      |                     | Hydrophytic Vegetation  |                 |              |             |
| 7.   |    |                      |                     | 1- Rapid Test for I   |                 | egetation/   |             |
|  | 0  | = Total Cove         | er                  | 2 - Dominance Te  |                 |              |             |
| Herb Stratum (Plot size:5 ft)                        |    | =                    |                     | 3 - Prevalence Inc  |                 |              |             |
| 1. Symphyotrichum novi-belgii                        | 35 | Yes                  | FACW                | 4 - Morphological   |                 |              | supporting  |
| 2. Symphyotrichum novae-angliae                      | 20 | Yes                  | FACW                | data in Remarks or on   |                 |              |             |
| 3. Pycnanthemum tenuifolium                          | 15 | No                   | FAC                 | Problematic Hydr  |                 |              |             |
| 4. Equisetum arvense                                 | 15 | No                   | FAC                 | Indicators of hydric so   |                 | -            | y must be   |
| 5. Scirpus cyperinus                                 | 5  | No No                | OBL                 | present, unless disturb   |                 | matic        |             |
| 6. Solidago canadensis                               | 5  | No                   | FACU                | Definitions of Vegetation                                       |                 |              |             |
|  |    | INU                  | FACU                | Tree – Woody plants 3   |                 |              | iameter a   |
| 7.   |    |                      |                     | breast height (DBH), re   |                 |              | Diland      |
| 8.   |    |                      |                     | Sapling/shrub – Woody<br>greater than or equal t                | -               |              | DH allu     |
| 9.   |    |                      |                     | Herb – All herbaceous   |                 |              | ardlass of  |
| 10   |    |                      |                     | size, and woody plants  |                 |              | ai aiess oi |
| 11. <u> </u>   |    |                      |                     | Woody vines – All wood  |                 |              | 28 ft in    |
| 12   |    |                      |                     | height.   | ay viries great | ici didii 5  | 2010111     |
|  | 95 | _= Total Cove        | er                  |   | - Dunnam#2 \    | / / NI       |             |
| Woody Vine Stratum (Plot size: <u>30 ft</u> )        |    |                      |                     | Hydrophytic Vegetation  | n Present?      | res <u> </u> | 0           |
| 1  |    |                      |                     | -   |                 |              |             |
| 2.   |    |                      |                     |   |                 |              |             |
| 3.   |    |                      |                     | _   |                 |              |             |
|  |    |                      |                     |   |                 |              |             |
| 4.   |    | = Total Cove         |                     |   |                 |              |             |

| Profile Desc<br>Depth | cription: (Describe<br>Matrix | to the d  | epth needed to d<br>Redox |            |                   | indicato      | r or confirm the a          | absence of indicato | ors.)                                 |
|-----------------------|-------------------------------|-----------|---------------------------|------------|-------------------|---------------|-----------------------------|---------------------|---------------------------------------|
| (inches)              | Color (moist)                 | %         | Color (moist)             |            | Type <sup>1</sup> | Loc2          | Text                        | ture                | Remarks                               |
| 0 - 3                 | 10YR 4/2                      | 100       | Color (Inolst)            |            | <u> </u>          |               |                             | y Loam              | Remarks                               |
| 3 - 20                | 10YR 4/2                      | 95        | 10YR 5/8                  | 5          |                   | M             |                             | Loam                |                                       |
| 3 20                  | 1011( 4/2                     |           | 1011(3/6                  | - <u>-</u> |                   |               | Ciay                        | Loain               |                                       |
|                       |                               |           |                           | -          |                   |               | -                           |                     |                                       |
|                       |                               |           |                           |            |                   |               |                             |                     |                                       |
|                       |                               | - —       |                           | _          |                   |               |                             |                     |                                       |
|                       |                               | - —       |                           | _          |                   |               |                             |                     |                                       |
|                       |                               |           |                           | _          |                   |               |                             |                     | _                                     |
|                       |                               |           |                           | - —        |                   |               |                             | -                   |                                       |
|                       |                               |           |                           | - —        |                   |               |                             | -                   |                                       |
|                       |                               |           |                           | -          |                   |               | -                           |                     |                                       |
|                       |                               | - —       |                           | -          |                   |               |                             |                     |                                       |
| <del></del> .         |                               |           |                           |            |                   |               |                             |                     |                                       |
|                       |                               | Depletic  | n, RM = Reduced           | Mat        | rıx, MS =         | Masked        | Sand Grains. <sup>2</sup> l |                     | Lining, M = Matrix.                   |
| Hydric Soil           |                               |           |                           |            |                   |               |                             | Indicators for Pr   | roblematic Hydric Soils³:             |
| Histosol              |                               |           | -                         |            |                   |               | R, MLRA 149B)               | 2 cm Muck (         | A10) (LRR K, L, MLRA 149B)            |
|                       | oipedon (A2)                  |           | Thin Dark Su              |            |                   |               |                             | Coast Prairie       | e Redox (A16) <b>(LRR K, L, R)</b>    |
| Black Hi              | en Sulfide (A4)               |           | Loamy Mucky               |            |                   | (LKK K,       | L)                          |                     | Peat or Peat (S3) (LRR K, L, R)       |
|                       | d Layers (A5)                 |           | Depleted Ma               |            |                   |               |                             | Dark Surface        |                                       |
|                       | d Below Dark Surf             | ace (A11  | •                         |            |                   |               |                             | •                   | elow Surface (S8) (LRR K, L)          |
|                       | ark Surface (A12)             | ,         | Depleted Dar              |            |                   | )             |                             |                     | urface (S9) (LRR K, L)                |
| Sandy M               | lucky Mineral (S1)            |           | Redox Depre               | ssior      | ns (F8)           |               |                             |                     | nese Masses (F12) (LRR K, L, R)       |
| Sandy G               | Gleyed Matrix (S4)            |           |                           |            |                   |               |                             |                     | oodplain Soils (F19) (MLRA 149B)      |
| Sandy R               | Redox (S5)                    |           |                           |            |                   |               |                             | Red Parent I        | c (TA6) <b>(MLRA 144A, 145, 149B)</b> |
| Stripped              | d Matrix (S6)                 |           |                           |            |                   |               |                             |                     | v Dark Surface (TF12)                 |
| Dark Su               | rface (S7) (LRR R, N          | /ILRA 149 | 9B)                       |            |                   |               |                             | Other (Expla        |                                       |
| 31 d' 4               | - 6 leaveler - leaveler - 1   |           |                           |            |                   |               |                             | -                   | in in hemans,                         |
| •                     | of hydrophytic veg            |           | and wetland nydr          | olog       | y must b          | e preser      | it, uniess disturbe         | ed or problematic.  |                                       |
|                       | Layer (if observed):          |           | Nama                      |            |                   | l la calcui a | Cail Duananti               |                     | Vee ( Ne                              |
|                       | Type:                         |           | None                      | -          |                   | Hyaric        | : Soil Present?             |                     | Yes/_ No                              |
| -                     | Depth (inches):               |           |                           |            |                   |               |                             |                     |                                       |
| Remarks:              |                               |           |                           |            |                   |               |                             |                     |                                       |
|                       |                               |           |                           |            |                   |               |                             |                     |                                       |
|                       |                               |           |                           |            |                   |               |                             |                     |                                       |
|                       |                               |           |                           |            |                   |               |                             |                     |                                       |
|                       |                               |           |                           |            |                   |               |                             |                     |                                       |
|                       |                               |           |                           |            |                   |               |                             |                     |                                       |
|                       |                               |           |                           |            |                   |               |                             |                     |                                       |
|                       |                               |           |                           |            |                   |               |                             |                     |                                       |
|                       |                               |           |                           |            |                   |               |                             |                     |                                       |
|                       |                               |           |                           |            |                   |               |                             |                     |                                       |
|                       |                               |           |                           |            |                   |               |                             |                     |                                       |
|                       |                               |           |                           |            |                   |               |                             |                     |                                       |
|                       |                               |           |                           |            |                   |               |                             |                     |                                       |
|                       |                               |           |                           |            |                   |               |                             |                     |                                       |
|                       |                               |           |                           |            |                   |               |                             |                     |                                       |
|                       |                               |           |                           |            |                   |               |                             |                     |                                       |
|                       |                               |           |                           |            |                   |               |                             |                     |                                       |
|                       |                               |           |                           |            |                   |               |                             |                     |                                       |
|                       |                               |           |                           |            |                   |               |                             |                     |                                       |
|                       |                               |           |                           |            |                   |               |                             |                     |                                       |



Photo of Sample Plot North



Photo of Sample Plot East



Photo of Sample Plot West



| Project/Site: Flat Creek Solar Pro   | ject City/County: Ca   | anajoharie, Montgomery County  | Sampling Date: 20   | )21-Sept-16                |
|--|--|--|---|----------------------------|
| Applicant/Owner: SunEast   |  | State: NY  | Sampling Point: W-N   | ISD-28_PFO-2               |
| nvestigator(s): Nick DeJohn, Al  | oi Light   | Section, Township, Rai   | nge: NA   |                            |
| Landform (hillslope, terrace, etc.):   | Depression   | Local relief (concave, convex,   | none): Undulating   | Slope (%): 0 to 1          |
| Subregion (LRR or MLRA): LI  | RR L   | Lat: 42.8387450427   | Long: -74.5193808899  | Datum: WGS84               |
| Soil Map Unit Name: Illion silt  | loam, 0 to 3 percent slopes  |  | NWI classification  | on:                        |
| Are climatic/hydrologic condition:   | s on the site typical for this time of y   |  | (If no, explain in Remarks.   | )                          |
| Are Vegetation, Soil,  | or Hydrology significantly o   |  | ircumstances" present?  | Yes No                     |
| Are Vegetation, Soil,  | or Hydrology naturally pro   | blematic? (If needed, exp  | olain any answers in Remark   | s.)                        |
| SUMMARY OF FINDINGS – A  | ttach site map showing samp  | ling point locations, transe   | cts, important features,  | etc.                       |
| Hydrophytic Vegetation Present?  | ? Yes <u></u> ✓ No   | ļ  |   |                            |
| Hydric Soil Present?   | Yes <u></u> No   | Is the Sampled Area within a   | Wetland? Yes  | s∕_ No                     |
| Wetland Hydrology Present?   | Yes No   | If yes, optional Wetland Site I  | D: W-   | NSD-28                     |
| Covertype is PFO.  |  |  |   |                            |
| HYDROLOGY  Wetland Hydrology Indicators:  Primary Indicators (minimum of  Surface Water (A1)  High Water Table (A2)  Saturation (A3)  Water Marks (B1)  Sediment Deposits (B2)  Drift Deposits (B3)  Algal Mat or Crust (B4)  Iron Deposits (B5)  Inundation Visible on Aerial III  Sparsely Vegetated Concave | Presence of Red<br>Recent Iron Red<br>Thin Muck Surfa<br>magery (B7) Other (Explain ir | leaves (B9) B13) B15) Be Odor (C1) Pheres on Living Roots (C3) Bluced Iron (C4) Bluction in Tilled Soils (C6) Bace (C7) Bace ( | condary Indicators (minimur<br>Surface Soil Cracks (B6)<br>Drainage Patterns (B10)<br>Moss Trim Lines (B16)<br>Dry-Season Water Table (C2<br>Crayfish Burrows (C8)<br>Saturation Visible on Aerial<br>Stunted or Stressed Plants<br>Geomorphic Position (D2)<br>Shallow Aquitard (D3)<br>Microtopographic Relief (D4<br>FAC-Neutral Test (D5) | !)<br>Imagery (C9)<br>ID1) |
| Field Observations:  |  |  | The Head at Test (BS)   |                            |
| Surface Water Present?   | Yes No <u></u> ✓ Dept  | th (inches):   |   |                            |
| Water Table Present?   |  | ·  | etland Hydrology Present?   | Yes No                     |
| Saturation Present?  |  | th (inches):   |   | <del></del>                |
|  | тез _✔_ тчо Dept   | (IIICIICS). U  |   |                            |
| (includes capillary fringe)  |  |  |   |                            |
| Remarks:   | gauge, monitoring well, aerial phot  | ios, previous inspections, ir avai   | iadic.  |                            |
|  |  |  |   |                            |

| <u>Free Stratum</u> (Plot size: <u>30 ft</u> )   |    | Dominant Species? | Indicator<br>Status | Dominance Test worksheet:<br>Number of Dominant Species T | hat 3         | (A)                |
|--|----|-------------------|---------------------|---|---------------|--------------------|
| . Quercus bicolor                                | 30 | Yes               | FACW                | Are OBL, FACW, or FAC:                                    |               | (A)                |
| Tilia americana                                  | 25 | Yes               | FACU                | Total Number of Dominant Spe-<br>Across All Strata:       | ies5          | (B)                |
|  |    |                   |                     | Percent of Dominant Species The Are OBL, FACW, or FAC:    | 60            | (A/B)              |
| 5.   |    |                   |                     | Prevalence Index worksheet:                               |               | <del></del>        |
| 5.   |    |                   |                     | Total % Cover of:   | Multiply      | Bv:                |
| 7.   |    |                   |                     | OBL species 0   | x 1 =         | _ <del></del><br>0 |
|  | 55 | = Total Cov       | er                  | FACW species 75   | x 2 =         | 150                |
| Sapling/Shrub Stratum (Plot size: <u>15 ft</u> ) |    |                   |                     | FAC species 10  | x3=           | 30                 |
| 1. <i>Carpinus caroliniana</i>                   | 10 | Yes               | FAC                 | FACU species 45   | x 4 =         | 180                |
| 2.   |    |                   |                     | UPL species 0   | ^ x 5 =       | 0                  |
| 3  |    |                   |                     | Column Totals 130   |               | 360 (B)            |
| 4.   |    |                   |                     |   | (A)           | 300 (b)            |
| 5.   |    |                   |                     | Prevalence Index = B/                                     |               | <del></del>        |
| 5.   |    |                   |                     | Hydrophytic Vegetation Indicate                           |               |                    |
| 7.   |    |                   |                     | 1- Rapid Test for Hydrophy                                | _             | 1                  |
| · -  | 10 | = Total Cov       | er                  | 2 - Dominance Test is >509                                |               |                    |
| Herb Stratum (Plot size:5 ft)                    |    | - Total Cov       | Ci                  | $\checkmark$ 3 - Prevalence Index is $\le$ 3              | .01           |                    |
| 1. Onoclea sensibilis                            | 40 | Yes               | FACW                | 4 - Morphological Adaptat                                 |               | supporting         |
|  | 20 | Yes               | FACU                | data in Remarks or on a separa                            |               |                    |
|  |    |                   |                     | Problematic Hydrophytic \                                 | _             | -                  |
| 3. Impatiens capensis                            | 5  | No                | FACW                | Indicators of hydric soil and we                          | -             | gy must be         |
| 4.   |    |                   |                     | present, unless disturbed or pro                          | blematic      |                    |
| 5  |    |                   |                     | Definitions of Vegetation Strata                          |               |                    |
| 6  |    |                   |                     | Tree – Woody plants 3 in. (7.6 cr                         |               | diameter a         |
| 7  |    |                   |                     | breast height (DBH), regardless                           |               |                    |
| 8  |    |                   |                     | Sapling/shrub – Woody plants le                           |               | DBH and            |
| 9  |    |                   |                     | greater than or equal to 3.28 ft                          |               |                    |
| 10   |    |                   |                     | Herb – All herbaceous (non-woo                            |               | gardless of        |
| 11   |    |                   |                     | size, and woody plants less than                          |               |                    |
| 12.  |    |                   |                     | Woody vines – All woody vines g                           | reater than 3 | .28 ft in          |
|  | 65 | = Total Cov       | er                  | height.   |               |                    |
| Woody Vine Stratum (Plot size:30 ft)             |    | -                 |                     | Hydrophytic Vegetation Presen                             | t? Yes 🔽 N    | No                 |
| 1.   |    |                   |                     |   |               |                    |
| 2.   |    |                   |                     | •   |               |                    |
| 3  |    |                   |                     | •   |               |                    |
| 4.   |    |                   |                     | -   |               |                    |
| T  | 0  | = Total Cov       | or                  | •   |               |                    |
|  | U  | _ 10tai C0v       | EI                  |   |               |                    |

|                   | -                           | to the o | depth needed to d<br>Redox |           |                   | indicato         | r or confirm the a | absence of indicato | ors.)  |
|-------------------|-----------------------------|----------|----------------------------|-----------|-------------------|------------------|--------------------|---------------------|--|
| Depth _           | Matrix                      |          | •                          |           |                   | 12               | Tava               |                     | Damanika   |
| (inches)<br>0 - 6 | Color (moist)               | <u>%</u> | Color (moist)              | <u> %</u> | Type <sup>1</sup> | Loc <sup>2</sup> |                    | ture                | Remarks  |
|                   | 10YR 3/2                    | 95       | 7.5YR 4/6                  | _ 5_      | C                 | M                |                    | ay Loam             |  |
| 6 - 18            | 10YR 4/2                    | 5        | 10YR 5/6                   | 5         | C                 | M                | Clay               | Loam                |  |
|                   |                             |          |                            | - —       |                   |                  | -                  |                     |  |
|                   |                             | - —      |                            | - —       |                   |                  | -                  |                     |  |
|                   |                             | - —      |                            | - —       | -                 | · ——             | -                  |                     |  |
|                   |                             | - —      |                            | - —       | -                 | · ——             | -                  |                     |  |
|                   |                             |          |                            | - —       |                   |                  |                    |                     |  |
|                   |                             | - —      |                            | - —       |                   |                  | -                  |                     |  |
|                   |                             | - —      |                            | - —       | -                 | · ——             | -                  |                     |  |
|                   |                             |          |                            | - —       |                   |                  | -                  |                     |  |
|                   |                             | - —      |                            | - —       |                   |                  | -                  |                     |  |
|                   |                             |          |                            |           |                   |                  |                    |                     |  |
|                   |                             | Depleti  | ion, RM = Reduced          | ı Mat     | rix, MS =         | Masked           | Sand Grains. 4     |                     | e Lining, M = Matrix.  |
| Hydric Soil I     |                             |          | Daharaha Da                | .16       |                   | CO) (I DD        | D 141 D1 4 40D)    | Indicators for Pr   | roblematic Hydric Soils³:  |
| Histosol          | (A1)<br>pipedon (A2)        |          | Polyvalue Be               |           |                   |                  | R, MLRA 149B)      |                     | A10) (LRR K, L, MLRA 149B)   |
| Black Hi          |                             |          | Loamy Muck                 |           |                   |                  |                    |                     | e Redox (A16) (LRR K, L, R)  |
|                   | en Sulfide (A4)             |          | Loamy Gleye                |           |                   | , (LIXIXIX,      | -,                 | -                   | Peat or Peat (S3) (LRR K, L, R)                                      |
|                   | d Layers (A5)               |          | Depleted Ma                |           |                   |                  |                    | Dark Surface        |  |
| Depleted          | d Below Dark Surfa          | ace (A1  | 1) Redox Dark              | Surfa     | ce (F6)           |                  |                    |                     | elow Surface (S8) <b>(LRR K, L)</b><br>urface (S9) <b>(LRR K, L)</b> |
|                   | ark Surface (A12)           |          | Depleted Da                | rk Su     | rface (F7         | <b>'</b> )       |                    |                     | nese Masses (F12) (LRR K, L, R)                                      |
| -                 | lucky Mineral (S1)          |          | Redox Depre                | essior    | ns (F8)           |                  |                    |                     | oodplain Soils (F19) (MLRA 149B)                                     |
| _                 | leyed Matrix (S4)           |          |                            |           |                   |                  |                    |                     | c (TA6) <b>(MLRA 144A, 145, 149B)</b>                                |
| _                 | edox (S5)                   |          |                            |           |                   |                  |                    | Red Parent I        |  |
|                   | l Matrix (S6)               |          |                            |           |                   |                  |                    |                     | v Dark Surface (TF12)  |
| Dark Su           | rface (S7) <b>(LRR R, N</b> | ILRA 14  | 49B)                       |           |                   |                  |                    | Other (Expla        | iin in Remarks)  |
| 3Indicators       | of hydrophytic veg          | etation  | and wetland hyd            | rolog     | y must b          | e preser         | nt, unless disturb | ed or problematic.  |  |
| Restrictive L     | ayer (if observed):         |          |                            |           |                   |                  |                    |                     |  |
|                   | Type:                       |          | None                       | _         |                   | Hydric           | Soil Present?      |                     | Yes∕_ No   |
|                   | Depth (inches):             |          |                            |           |                   |                  |                    |                     |  |
| Remarks:          |                             |          |                            |           |                   |                  |                    | _                   |  |
|                   |                             |          |                            |           |                   |                  |                    |                     |  |
|                   |                             |          |                            |           |                   |                  |                    |                     |  |
|                   |                             |          |                            |           |                   |                  |                    |                     |  |
|                   |                             |          |                            |           |                   |                  |                    |                     |  |
|                   |                             |          |                            |           |                   |                  |                    |                     |  |
|                   |                             |          |                            |           |                   |                  |                    |                     |  |
|                   |                             |          |                            |           |                   |                  |                    |                     |  |
|                   |                             |          |                            |           |                   |                  |                    |                     |  |
|                   |                             |          |                            |           |                   |                  |                    |                     |  |
|                   |                             |          |                            |           |                   |                  |                    |                     |  |
|                   |                             |          |                            |           |                   |                  |                    |                     |  |
|                   |                             |          |                            |           |                   |                  |                    |                     |  |
|                   |                             |          |                            |           |                   |                  |                    |                     |  |
|                   |                             |          |                            |           |                   |                  |                    |                     |  |
|                   |                             |          |                            |           |                   |                  |                    |                     |  |
|                   |                             |          |                            |           |                   |                  |                    |                     |  |
|                   |                             |          |                            |           |                   |                  |                    |                     |  |
|                   |                             |          |                            |           |                   |                  |                    |                     |  |
|                   |                             |          |                            |           |                   |                  |                    |                     |  |

Hydrology Photos



Soil Photos



Photo of Sample Plot North



Photo of Sample Plot East



| Project/Site: Flat Creek Solar Project   | ct City/County: Can   | ajoharie, Montgomery County  | Sampling Date: 20  | 21-Sept-16        |
|--|---|--|--|-------------------|
| Applicant/Owner: SunEast   |   | State: NY  | Sampling Point: W-N  | SD-28_UPL-1       |
| Investigator(s): Nick DeJohn, Abi  | Light   | Section, Township, Ran   | ige: NA  |                   |
| Landform (hillslope, terrace, etc.):   | Flat  | Local relief (concave, convex, i   | none): Undulating  | Slope (%): 0 to 1 |
| Subregion (LRR or MLRA): LRR   | R L   | Lat: 42.83857401   | Long: -74.5199296531   | Datum: WGS84      |
| Soil Map Unit Name: Illion silt loa  | am, 0 to 3 percent slopes   |  | NWI classification   | on:               |
| Are climatic/hydrologic conditions o   | on the site typical for this time of ye   | ar? Yes 🟒 No   | (If no, explain in Remarks.  | 1                 |
| Are Vegetation, Soil,  | or Hydrology significantly di   | sturbed? Are "Normal Ci  | rcumstances" present?  | Yes No            |
| Are Vegetation, Soil,  | or Hydrology naturally prob   | ematic? (If needed, exp  | lain any answers in Remarks  | i.)               |
| SUMMARY OF FINDINGS – Att  | ach site map showing sampli   | ng point locations, transe   | cts, important features,   | etc.              |
| Hydrophytic Vegetation Present?  | Yes No  |  | •  |                   |
| Hydric Soil Present?   | Yes No _ <b>_</b> /   | Is the Sampled Area within a   | Wetland? Ye  | s No <u>_</u>     |
| Wetland Hydrology Present?   | Yes No  | If yes, optional Wetland Site II   | D:   |                   |
|  |   |  |  |                   |
| Wetland Hydrology Indicators:  Primary Indicators (minimum of or  Surface Water (A1)  High Water Table (A2)  Saturation (A3)  Water Marks (B1)  Sediment Deposits (B2)  Drift Deposits (B3)  Algal Mat or Crust (B4) | Water-Stained Le: Aquatic Fauna (B1 Marl Deposits (B1 Hydrogen Sulfide Oxidized Rhizospl Presence of Redu | aves (B9)  3)  5)  Odor (C1)  neres on Living Roots (C3)  ced Iron (C4)  Tion in Tilled Soils (C6) | Condary Indicators (minimun<br>Surface Soil Cracks (B6)<br>Drainage Patterns (B10)<br>Moss Trim Lines (B16)<br>Dry-Season Water Table (C2<br>Crayfish Burrows (C8)<br>Saturation Visible on Aerial<br>Stunted or Stressed Plants ( | )<br>magery (C9)  |
| Iron Deposits (B5)   | Thin Muck Surface   |  | Geomorphic Position (D2)<br>Shallow Aquitard (D3)  |                   |
| Inundation Visible on Aerial Ima   |   |  | Microtopographic Relief (D4  | )                 |
| Sparsely Vegetated Concave Su  | ırface (B8)   |  | FAC-Neutral Test (D5)  | ,                 |
| Field Observations:  |   |  | , ,  |                   |
| Surface Water Present?   | Yes No <u></u> ✓ Depth  | (inches):  |  |                   |
| Water Table Present?   |   | ·  | tland Hydrology Present?   | Yes No            |
|  |   |  | adila riyarology r reseric.  |                   |
| Saturation Present?  | Yes _ \( \sum_ \) No Depth  | (inches): 5  |  |                   |
| (includes capillary fringe)  |   |  |  |                   |
| Describe Recorded Data (stream g   | auge, monitoring well, aerial photo   | s, previous inspections), if avail   | able:  |                   |
| Remarks:   |   |  |  |                   |

| minance Test worksheet: Imber of Dominant Species That e OBL, FACW, or FAC: tal Number of Dominant Species ross All Strata: rcent of Dominant Species That e OBL, FACW, or FAC: evalence Index worksheet:  Total % Cover of:  Mul SL species  0 x1  CW species  10 x2  CS species  32 x3  CU species  10 x5  Luspecies  10 x5  Luspecies  10 x5  Jumn Totals  Prevalence Index = B/A = 3.  drophytic Vegetation Indicators:  1 - Rapid Test for Hydrophytic Veget 2 - Dominance Test is > 50% 3 - Prevalence Index is ≤ 3.01 4 - Morphological Adaptations¹ (Prota in Remarks or on a separate sheet) Problematic Hydrophytic Vegetation Problematic Hydrophytic Vegetation Problematic Hydrophytic Vegetation Problematic Hydrophytic Vegetation Problematic Hydrophytic Vegetation  | = 20<br>= 96<br>= 240<br>= 50<br>406 (B)  |
|---|---|
| tal Number of Dominant Species ross All Strata: rcent of Dominant Species That e OBL, FACW, or FAC: evalence Index worksheet: Total % Cover of: St. species  CW species  CU species  CU species  Multiple Cover of:  10  22  C species  10  24  C species  10  25  CH species  10  26  27  28  29  20  20  20  21  21  21  22  23  24  25  26  27  27  28  28  29  20  20  20  20  20  20  20  20  20   | 4 (B)  50 (A/B)  tiply By:  = 0 = 20 = 96 = 240 = 50 406 (B)  |
| tal Number of Dominant Species ross All Strata: rcent of Dominant Species That e OBL, FACW, or FAC: evalence Index worksheet:  Total % Cover of:  St. species  CW species  CU species  CU species  Multiple Species  Multiple Species  Multiple Species  Multiple Species  Multiple Species  Multiple Species  10  x 2  C species  10  x 4  L species  10  x 5  Illumn Totals  112  A Prevalence Index = B/A = 3.  drophytic Vegetation Indicators:  1 - Rapid Test for Hydrophytic Veget  2 - Dominance Test is > 50%  3 - Prevalence Index is ≤ 3.01  4 - Morphological Adaptations¹ (Protat in Remarks or on a separate sheet)   | 50 (A/B)  tiply By: = 0 = 20 = 96 = 240 = 50 406 (B)  |
| ross All Strata:  rcent of Dominant Species That e OBL, FACW, or FAC: evalence Index worksheet:  Total % Cover of:  Mul SL species  0 x1  CW species 10 x2  C species 32 x3  CU species 60 x4  L species 10 x5  lumn Totals 112 (A Prevalence Index = B/A = 3. drophytic Vegetation Indicators:  1 - Rapid Test for Hydrophytic Veget 2 - Dominance Test is > 50% 3 - Prevalence Index is ≤ 3.01 4 - Morphological Adaptations¹ (Prota in Remarks or on a separate sheet)   | 50 (A/B)  tiply By: = 0 = 20 = 96 = 240 = 50 406 (B)  |
| rcent of Dominant Species That e OBL, FACW, or FAC: evalence Index worksheet:  Total % Cover of:  St. species  CS species  CU | tiply By:  = 0 = 20 = 96 = 240 = 50 406 (B)   |
| e OBL, FACW, or FAC:  evalence Index worksheet:  Total % Cover of:  Mul SL species 0 x 1  CW species 10 x 2  C species 32 x 3  CU species 60 x 4  L species 10 x 5  Iumn Totals 112 (A  Prevalence Index = B/A = 3.  drophytic Vegetation Indicators:  1 - Rapid Test for Hydrophytic Veget 2 - Dominance Test is > 50% 3 - Prevalence Index is ≤ 3.01 4 - Morphological Adaptations¹ (Prota in Remarks or on a separate sheet)   | tiply By:  = 0 = 20 = 96 = 240 = 50 406 (B)   |
| Pevalence Index worksheet:    Total % Cover of:   Multiple  | = 0<br>= 20<br>= 96<br>= 240<br>= 50<br>406 (B)   |
| Total % Cover of:         Mult           EL species         0         x 1           CW species         10         x 2           C species         32         x 3           CU species         60         x 4           L species         10         x 5           lumn Totals         112         (A           Prevalence Index = B/A =         3.           drophytic Vegetation Indicators:         1- Rapid Test for Hydrophytic Veget           2 - Dominance Test is > 50%         3 - Prevalence Index is ≤ 3.0¹           4 - Morphological Adaptations¹ (Protation Remarks or on a separate sheet)  | = 0<br>= 20<br>= 96<br>= 240<br>= 50<br>406 (B)   |
| SL species  | = 0<br>= 20<br>= 96<br>= 240<br>= 50<br>406 (B)   |
| CW species $10$ x 2 C species $32$ x 3 CU species $60$ x 4 L species $10$ x 5 lumn Totals $112$ (A Prevalence Index = B/A = 3.  drophytic Vegetation Indicators: 1- Rapid Test for Hydrophytic Veget 2 - Dominance Test is > 50% 3 - Prevalence Index is $\leq 3.0^{1}$ 4 - Morphological Adaptations¹ (Prota in Remarks or on a separate sheet)  | = 20<br>= 96<br>= 240<br>= 50<br>406 (B)  |
| C species $32$ x 3  CU species $60$ x 4  L species $10$ x 5  lumn Totals $112$ (A  Prevalence Index = B/A = 3.  drophytic Vegetation Indicators:  1 - Rapid Test for Hydrophytic Veget  2 - Dominance Test is > 50%  3 - Prevalence Index is $\leq 3.0^{\circ}$ 4 - Morphological Adaptations (Prota in Remarks or on a separate sheet)   | = 96<br>= 240<br>= 50<br>406 (B)  |
| CU species $\frac{60}{10}$ x 4  L species $\frac{10}{10}$ x 5  lumn Totals $\frac{112}{112}$ (A  Prevalence Index = B/A = $\frac{3}{112}$ drophytic Vegetation Indicators:  1 - Rapid Test for Hydrophytic Veget  2 - Dominance Test is > 50%  3 - Prevalence Index is $\leq 3.0^{\circ}$ 4 - Morphological Adaptations (Prota in Remarks or on a separate sheet)   | = 240<br>= 50<br>406 (B)  |
| L species $\frac{10}{112}$ x 5 shumn Totals $\frac{112}{112}$ (A Prevalence Index = B/A = $\frac{3}{112}$ drophytic Vegetation Indicators:  1 - Rapid Test for Hydrophytic Veget 2 - Dominance Test is > 50% 3 - Prevalence Index is $\leq 3.0^{\circ}$ 4 - Morphological Adaptations (Prota in Remarks or on a separate sheet)   | = 50<br>406 (B)   |
| lumn Totals  Prevalence Index = B/A = 3.  drophytic Vegetation Indicators:  1- Rapid Test for Hydrophytic Veget  2 - Dominance Test is > 50%  3 - Prevalence Index is ≤ 3.0¹  4 - Morphological Adaptations¹ (Prota in Remarks or on a separate sheet)  | 406 (B)   |
| Prevalence Index = B/A = 3.  drophytic Vegetation Indicators:  1 - Rapid Test for Hydrophytic Veget  2 - Dominance Test is > 50%  3 - Prevalence Index is ≤ 3.01  4 - Morphological Adaptations¹ (Prota in Remarks or on a separate sheet)  | 6   |
| drophytic Vegetation Indicators:  1- Rapid Test for Hydrophytic Veget 2 - Dominance Test is > 50% 3 - Prevalence Index is ≤ 3.0¹ 4 - Morphological Adaptations¹ (Prota in Remarks or on a separate sheet)   |   |
| 1- Rapid Test for Hydrophytic Veget<br>2 - Dominance Test is > 50%<br>3 - Prevalence Index is ≤ 3.01<br>4 - Morphological Adaptations¹ (Pro<br>ta in Remarks or on a separate sheet)  | ation   |
| 1- Rapid Test for Hydrophytic Veget<br>2 - Dominance Test is > 50%<br>3 - Prevalence Index is ≤ 3.01<br>4 - Morphological Adaptations¹ (Pro<br>ta in Remarks or on a separate sheet)  | ation   |
| 2 - Dominance Test is > 50%<br>3 - Prevalence Index is ≤ 3.0¹<br>4 - Morphological Adaptations¹ (Pro<br>ta in Remarks or on a separate sheet)   |   |
| 3 - Prevalence Index is ≤ 3.0¹ 4 - Morphological Adaptations¹ (Pro ta in Remarks or on a separate sheet)  |   |
| 4 - Morphological Adaptations¹ (Pro<br>ta in Remarks or on a separate sheet)  |   |
| ta in Remarks or on a separate sheet)   | vide supporting   |
|   | vide supporting   |
| r robicinatic riyaropriyac vegetatioi   | n¹ (Eynlain)  |
| dicators of hydric soil and wetland hyd   |   |
| esent, unless disturbed or problematic  |   |
| finitions of Vegetation Strata:   |   |
| ee – Woody plants 3 in. (7.6 cm) or mor   | a in diameter at  |
| east height (DBH), regardless of height   |   |
| pling/shrub – Woody plants less than 3  |   |
| eater than or equal to 3.28 ft (1 m) tall.  | III. DDIT and   |
|   | s regardless of   |
|   | -   |
|   |   |
| ight.   | an 5.20 it in   |
|   |   |
| ydrophytic vegetation Present? Yes _  | No _ <b>_</b> _   |
|   |   |
|   |   |
|   |   |
|   |   |
|   |   |
|   |   |
| erk<br>e,<br>oo<br>ig   | o – All herbaceous (non-woody) plant<br>and woody plants less than 3.28 ft ta<br><b>dy vines</b> – All woody vines greater th |

| Profile Des             | cription: (Describe          | to the de  | epth needed to do | ocun   | nent the i        | ndicator         | or confirm the a            | bsence of indicator  | s.)                             |
|-------------------------|------------------------------|------------|-------------------|--------|-------------------|------------------|-----------------------------|----------------------|---------------------------------|
| Depth                   | Matrix                       |            | Redox             | Feat   | tures             |                  |                             |                      |                                 |
| (inches)                | Color (moist)                | %          | Color (moist)     | %      | Type <sup>1</sup> | Loc <sup>2</sup> | Tex                         | ture                 | Remarks                         |
| 0 - 13                  | 10YR 3/2                     | 100        |                   |        |                   |                  | Silty Cla                   | ay Loam              |                                 |
| 13 - 20                 | 10YR 4/2                     | 95         | 10YR 5/6          | 5      | C                 | M                | Clay                        | Loam                 |                                 |
|                         |                              |            |                   | _      |                   |                  |                             |                      |                                 |
|                         |                              |            |                   | _      |                   |                  |                             |                      |                                 |
|                         |                              |            |                   | _      |                   |                  |                             |                      |                                 |
|                         |                              |            |                   | _      |                   |                  |                             |                      |                                 |
|                         |                              |            |                   | _      |                   |                  |                             |                      |                                 |
|                         |                              |            |                   | _      |                   |                  |                             |                      |                                 |
|                         |                              |            |                   | _      |                   |                  |                             |                      |                                 |
|                         |                              |            |                   | _      |                   |                  |                             |                      |                                 |
|                         |                              |            |                   | _      |                   |                  |                             |                      |                                 |
|                         |                              |            |                   | _      |                   |                  |                             |                      |                                 |
|                         |                              |            |                   |        |                   |                  |                             |                      |                                 |
| ¹Type: C = 0            | oncentration, D =            | Depletic   | n, RM = Reduced   | Mat    | rix, MS =         | Masked           | Sand Grains. <sup>2</sup> L | ocation: PL = Pore I | Lining, M = Matrix.             |
| Hydric Soil             | Indicators:                  |            |                   |        |                   |                  |                             | Indicators for Pro   | oblematic Hydric Soils³:        |
| Histoso                 |                              |            | Polyvalue Bel     | ow S   | urface (S         | 8) <b>(LRR I</b> | R. MLRA 149B)               |                      | •                               |
|                         | oipedon (A2)                 |            | Thin Dark Sur     |        |                   |                  |                             |                      | 10) (LRR K, L, MLRA 149B)       |
|                         | istic (A3)                   |            | Loamy Mucky       |        |                   |                  |                             |                      | Redox (A16) (LRR K, L, R)       |
| Hydroge                 | en Sulfide (A4)              |            | Loamy Gleyed      |        |                   |                  |                             | 5 cm Mucky P         | Peat or Peat (S3) (LRR K, L, R) |
| Stratifie               | d Layers (A5)                |            | Depleted Mat      | rix (l | F3)               |                  |                             |                      |                                 |
| Deplete                 | d Below Dark Surf            | ace (A11   | ) Redox Dark S    | urfa   | ce (F6)           |                  |                             |                      | ow Surface (S8) (LRR K, L)      |
| Thick Da                | ark Surface (A12)            |            | Depleted Dar      | k Su   | rface (F7)        | )                |                             |                      | face (S9) (LRR K, L)            |
| Sandy N                 | lucky Mineral (S1)           |            | Redox Depre       | ssior  | ns (F8)           |                  |                             |                      | ese Masses (F12) (LRR K, L, R)  |
| Sandy C                 | Gleyed Matrix (S4)           |            |                   |        |                   |                  |                             |                      | odplain Soils (F19) (MLRA 149B) |
| Sandy F                 | Redox (S5)                   |            |                   |        |                   |                  |                             |                      | (TA6) (MLRA 144A, 145, 149B)    |
| _                       | d Matrix (S6)                |            |                   |        |                   |                  |                             | Red Parent M         |                                 |
|                         | ırface (S7) <b>(LRR R, N</b> | /II RA 149 | 9B)               |        |                   |                  |                             | •                    | Dark Surface (TF12)             |
|                         |                              |            | ,                 |        |                   |                  |                             | Other (Explain       | n in Remarks)                   |
| <sup>3</sup> Indicators | of hydrophytic veg           | getation   | and wetland hydr  | olog   | y must b          | e presen         | t, unless disturbe          | ed or problematic.   |                                 |
| Restrictive             | Layer (if observed):         | :          |                   |        |                   |                  |                             |                      |                                 |
|                         | Type:                        |            | None              |        |                   | Hydric           | Soil Present?               | ,                    | Yes No⁄_                        |
|                         | Depth (inches):              |            |                   |        |                   |                  |                             |                      |                                 |
| Remarks:                |                              |            |                   |        |                   |                  |                             |                      |                                 |
|                         |                              |            |                   |        |                   |                  |                             |                      |                                 |
|                         |                              |            |                   |        |                   |                  |                             |                      |                                 |
|                         |                              |            |                   |        |                   |                  |                             |                      |                                 |
|                         |                              |            |                   |        |                   |                  |                             |                      |                                 |
|                         |                              |            |                   |        |                   |                  |                             |                      |                                 |
|                         |                              |            |                   |        |                   |                  |                             |                      |                                 |
|                         |                              |            |                   |        |                   |                  |                             |                      |                                 |
|                         |                              |            |                   |        |                   |                  |                             |                      |                                 |
|                         |                              |            |                   |        |                   |                  |                             |                      |                                 |
|                         |                              |            |                   |        |                   |                  |                             |                      |                                 |
|                         |                              |            |                   |        |                   |                  |                             |                      |                                 |
|                         |                              |            |                   |        |                   |                  |                             |                      |                                 |
|                         |                              |            |                   |        |                   |                  |                             |                      |                                 |
|                         |                              |            |                   |        |                   |                  |                             |                      |                                 |
|                         |                              |            |                   |        |                   |                  |                             |                      |                                 |
|                         |                              |            |                   |        |                   |                  |                             |                      |                                 |
|                         |                              |            |                   |        |                   |                  |                             |                      |                                 |
|                         |                              |            |                   |        |                   |                  |                             |                      |                                 |
|                         |                              |            |                   |        |                   |                  |                             |                      |                                 |
|                         |                              |            |                   |        |                   |                  |                             |                      |                                 |
|                         |                              |            |                   |        |                   |                  |                             |                      |                                 |



Photo of Sample Plot North



Photo of Sample Plot East



Photo of Sample Plot West



| Project/Site: Flat Creek Solar Pro  | oject City/Co                      | unty: Canajoharie, Mont     | gomery County         | Sampling Date: 202   | 21-Sept-16        |  |  |
|---|------------------------------------|-----------------------------|-----------------------|--|-------------------|--|--|
| Applicant/Owner: SunEast  |                                    |                             | State: NY             | Sampling Point: W-NSD-28_UPL-2   |                   |  |  |
| Investigator(s): Nick DeJohn, A   | bi Light                           | Section                     | n, Township, Range    | : NA   |                   |  |  |
| Landform (hillslope, terrace, etc.)   | ): Knob                            | Local relief (co            | ncave, convex, noi    | ne): Undulating  | Slope (%): 1 to 3 |  |  |
| Subregion (LRR or MLRA): L  | .RR L                              | Lat: 42                     | 2.8390412173 Lo       | ong: -74.51975137  | Datum: WGS84      |  |  |
| Soil Map Unit Name: Illion silt   | loam, 0 to 3 percent slopes        |                             |                       | NWI classification   | n:                |  |  |
| Are climatic/hydrologic condition   | is on the site typical for this    | time of year?               | Yes No (              | lf no, explain in Remarks.)  |                   |  |  |
| Are Vegetation, Soil,   | or Hydrology signi                 | ificantly disturbed?        | Are "Normal Circu     | ımstances" present?  | Yes No            |  |  |
| Are Vegetation, Soil,   | or Hydrology natu                  | rally problematic?          | (If needed, explain   | n any answers in Remarks.  | )                 |  |  |
| Hydrophytic Vegetation Present Hydric Soil Present? Wetland Hydrology Present? Remarks: (Explain alternative pr Covertype is UPL. | ? Yes No _<br>Yes No _<br>Yes No _ | Is the Sample               | ed Area within a Wall |  | etc.              |  |  |
| HYDROLOGY  Wetland Hydrology Indicators:  Primary Indicators (minimum of  | one is required; check all tl      | nat apply)                  | <u>Secon</u>          | dary Indicators (minimum   | of two required)  |  |  |
| Surface Water (A1)  | Water-9                            | Stained Leaves (B9)         | Su                    | Surface Soil Cracks (B6)   |                   |  |  |
| Surface Water ((1)) High Water Table (A2)   |                                    | : Fauna (B13)               |                       | ainage Patterns (B10)  |                   |  |  |
| ✓ Saturation (A3)   | · ·                                | eposits (B15)               |                       | Moss Trim Lines (B16)  |                   |  |  |
| Water Marks (B1)  |                                    | en Sulfide Odor (C1)        |                       | Dry-Season Water Table (C2)  |                   |  |  |
| Sediment Deposits (B2)  | Oxidize                            | d Rhizospheres on Living    | ROOTS (C3)            | Crayfish Burrows (C8)  |                   |  |  |
| Drift Deposits (B3)   | Presence                           | ce of Reduced Iron (C4)     |                       | ' Saturation Visible on Aerial Imagery (C9)<br>Stunted or Stressed Plants (D1) |                   |  |  |
| Algal Mat or Crust (B4)   | Recent                             | Iron Reduction in Tilled S  | nils (C6)             | Geomorphic Position (D2)   |                   |  |  |
| Iron Deposits (B5)  | Thin Mι                            | uck Surface (C7)            |                       | allow Aquitard (D3)  |                   |  |  |
| Inundation Visible on Aerial  | magery (B7) Other (B               | Explain in Remarks)         |                       | Microtopographic Relief (D4)   |                   |  |  |
| Sparsely Vegetated Concave  | Surface (B8)                       |                             |                       | .C-Neutral Test (D5)   |                   |  |  |
| Field Observations:   |                                    |                             |                       |  |                   |  |  |
| Surface Water Present?  | Yes No _ <b>_∕</b> _               | Depth (inches):             |                       |  |                   |  |  |
| Water Table Present?  | Yes <u>✓</u> No                    | Depth (inches):             | 10 Wetla              | nd Hydrology Present?  | Yes No            |  |  |
|   |                                    | •                           |                       | na riyarology Frescht!   | 140               |  |  |
| Saturation Present?   | Yes No                             | Depth (inches):             | 6                     |  |                   |  |  |
| (includes capillary fringe)   |                                    |                             |                       |  |                   |  |  |
| Describe Recorded Data (stream  | n gauge, monitoring well, ae       | erial photos, previous insp | oections), if availab | le:  |                   |  |  |
|   |                                    |                             |                       |  |                   |  |  |
|   |                                    |                             |                       |  |                   |  |  |
| Remarks:  |                                    |                             |                       |  |                   |  |  |
|   |                                    |                             |                       |  |                   |  |  |
|   |                                    |                             |                       |  |                   |  |  |
|   |                                    |                             |                       |  |                   |  |  |
|   |                                    |                             |                       |  |                   |  |  |
|   |                                    |                             |                       |  |                   |  |  |
|   |                                    |                             |                       |  |                   |  |  |
|   |                                    |                             |                       |  |                   |  |  |

| <u>Tree Stratum</u> (Plot size: <u>30 ft</u> )   |    | Dominant<br>Species? | Indicator<br>Status | Dominance Test works Number of Dominant |                       | 2          | (A)         |
|--|----|----------------------|---------------------|---|-----------------------|------------|-------------|
| 1. Tsuga canadensis                              | 70 | Yes                  | FACU                | Are OBL, FACW, or FAC                   | <b>:</b> :            |            | (^)         |
| 2.   |    |                      |                     | Total Number of Dom                     | inant Species         | 4          | (D)         |
| 3.   |    |                      |                     | Across All Strata:                      |                       | 4          | (B)         |
| 4.   |    |                      |                     | Percent of Dominant S                   | Species That          | 50         | (A /D)      |
| · <del></del>                                    |    |                      |                     | Are OBL, FACW, or FAC                   | <b>:</b> :            |            | (A/B)       |
| 5  |    |                      |                     | Prevalence Index work                   | ksheet:               |            |             |
| 6.   |    |                      |                     | Total % Cove                            | <u>r of:</u>          | Multiply   | By:         |
| 7  |    |                      |                     | - OBL species                           | 0                     | x 1 =      | 0           |
|  | 70 | = Total Cove         | er                  | FACW species                            | 0                     | x 2 =      | 0           |
| Sapling/Shrub Stratum (Plot size: <u>15 ft</u> ) |    |                      |                     | FAC species                             | 5                     | x 3 =      | 15          |
| 1  |    |                      |                     | - FACU species                          | 72                    | x 4 =      | 288         |
| 2.   |    |                      |                     | ·                                       |                       | -          |             |
| 3.   |    |                      |                     | - UPL species                           | 0                     | x 5 =      | 0           |
| 4.   |    |                      |                     | - Column Totals                         | 77                    | (A)        | 303 (B)     |
| <br>5.   |    |                      |                     | Prevalence I                            | ndex = B/A =          | 3.9        |             |
|  |    |                      |                     | Hydrophytic Vegetatio                   | n Indicators:         |            |             |
| 6.<br>   |    |                      |                     | 1- Rapid Test for                       | Hydrophytic V         | egetatior/ | 1           |
| 7  |    |                      |                     | 2 - Dominance Te                        |                       |            |             |
|  | 0  | = Total Cove         | er                  | 3 - Prevalence In                       | dex is $\leq 3.0^{1}$ |            |             |
| Herb Stratum (Plot size: <u>5 ft</u> )           |    |                      |                     | 4 - Morphologica                        |                       | (Provide   | sunnorting  |
| 1. Parathelypteris noveboracensis                | 3  | Yes                  | FAC                 | - data in Remarks or on                 |                       |            | 3apporting  |
| 2. <i>Toxicodendron radicans</i>                 | 2  | Yes                  | FAC                 | - Problematic Hyd                       |                       |            | (nlain)     |
| 3. Acer saccharum                                | 2  | Yes                  | FACU                | ¹Indicators of hydric se                |                       |            |             |
| 4.   |    |                      |                     | present, unless distur                  |                       | -          | gy must be  |
| <u></u><br>5.                                    |    |                      |                     | -                                       |                       | Hatic      |             |
| 6.   |    |                      |                     | Definitions of Vegetati                 |                       |            |             |
|  |    |                      |                     | Tree – Woody plants 3                   |                       |            | diameter at |
| 7  |    |                      |                     | breast height (DBH), re                 | -                     | _          |             |
| 8  |    |                      |                     | Sapling/shrub – Wood                    |                       |            | JBH and     |
| 9  |    |                      |                     | greater than or equal                   |                       |            |             |
| 10   |    |                      |                     | Herb – All herbaceous                   | -                     |            | gardless of |
| 11   |    |                      |                     | size, and woody plants                  |                       |            |             |
| 12.  |    |                      |                     | Woody vines – All woo                   | dy vines great        | ter than 3 | .28 ft in   |
|  | 7  | = Total Cove         | er                  | height.                                 |                       |            |             |
| Woody Vine Stratum (Plot size:30 ft)             |    | =                    |                     | Hydrophytic Vegetation                  | on Present?           | /es N      | Vo <u> </u> |
| 1.   |    |                      |                     |   |                       |            |             |
| 7  |    |                      |                     | -                                       |                       |            |             |
| <b>4.</b>  |    |                      |                     | -                                       |                       |            |             |
| 2  |    |                      |                     | -                                       |                       |            |             |
| 3.   |    |                      |                     |   |                       |            |             |
| 3.<br>4.   |    | = Total Cove         |                     | -                                       |                       |            |             |

| Profile Desc  | cription: (Describe                     | to the de | epth needed to do           | ocun  | nent the i        | ndicato          | or confirm the a            | bsence of indicato | ors.)                                  |
|---------------|---|-----------|-----------------------------|-------|-------------------|------------------|-----------------------------|--------------------|--|
| Depth _       | Matrix                                  |           | Redox                       | Feat  | tures             |                  |                             |                    |  |
| (inches)      | Color (moist)                           | %         | Color (moist)               | %     | Type <sup>1</sup> | Loc <sup>2</sup> | Text                        | ture               | Remarks                                |
| 0 - 11        | 10YR 2/2                                | 100       |                             |       |                   |                  | Loa                         | am                 |  |
| 11 - 20       | 10YR 3/2                                | 95        | 7.5YR 4/6                   | 5     | С                 | M                | Silty Cla                   | y Loam             |  |
|               |   |           |                             | _     |                   |                  |                             |                    |  |
|               |   |           |                             | _     |                   |                  |                             |                    |  |
|               |   |           |                             | _     |                   |                  |                             |                    |  |
|               |   |           |                             | _     |                   |                  |                             |                    |  |
|               |   |           |                             | _     |                   |                  |                             |                    |  |
|               |   |           |                             | _     |                   |                  |                             |                    |  |
|               |   |           |                             | _     |                   |                  |                             |                    |  |
|               |   |           |                             | _     |                   |                  |                             |                    |  |
|               |   |           |                             | _     |                   |                  |                             |                    |  |
|               |   |           |                             | _     |                   |                  |                             |                    |  |
|               |   |           |                             | _     |                   |                  |                             |                    |  |
| ¹Type: C = C  | Concentration, D =                      | Depletio  | n, RM = Reduced             | Mat   | rix, MS =         | Masked           | Sand Grains. <sup>2</sup> L | ocation: PL = Pore | E Lining, M = Matrix.                  |
| Hydric Soil   | Indicators:                             |           |                             |       |                   |                  |                             | Indicators for P   | roblematic Hydric Soils³:              |
| Histosol      | l (A1)                                  |           | Polyvalue Bel               | ow S  | urface (S         | 8) <b>(LRR</b> I | R, MLRA 149B)               | 2 cm Muck (        | (A10) (LRR K, L, MLRA 149B)            |
| Histic Ep     | oipedon (A2)                            |           | Thin Dark Sur               |       |                   |                  |                             |                    | e Redox (A16) <b>(LRR K, L, R)</b>     |
| Black Hi      |   |           | Loamy Mucky                 |       |                   | (LRR K, I        | -)                          | 5 cm Mucky         | Peat or Peat (S3) (LRR K, L, R)        |
| ,             | en Sulfide (A4)                         |           | Loamy Gleyed                |       |                   |                  |                             | Dark Surfac        | e (S7) <b>(LRR K, L)</b>               |
|               | d Layers (A5)                           |           | Depleted Mat                |       |                   |                  |                             | Polyvalue Be       | elow Surface (S8) (LRR K, L)           |
|               | d Below Dark Surfa                      |           |                             |       |                   |                  |                             | Thin Dark S        | urface (S9) <b>(LRR K, L)</b>          |
|               | ark Surface (A12)<br>Jucky Mineral (S1) |           | Depleted Dar<br>Redox Depre |       |                   |                  |                             | Iron-Manga         | nese Masses (F12) (LRR K, L, R)        |
|               |   |           | Redox Depre                 | 55101 | 15 (ГО)           |                  |                             | Piedmont Fl        | loodplain Soils (F19) (MLRA 149B)      |
| -             | Gleyed Matrix (S4)                      |           |                             |       |                   |                  |                             | Mesic Spodi        | ic (TA6) <b>(MLRA 144A, 145, 149B)</b> |
| _             | Redox (S5)                              |           |                             |       |                   |                  |                             | Red Parent         | Material (F21)                         |
|               | d Matrix (S6)                           |           |                             |       |                   |                  |                             | Very Shallov       | w Dark Surface (TF12)                  |
| Dark Su       | rface (S7) (LRR R, N                    | /ILKA 149 | 9B)                         |       |                   |                  |                             | Other (Expla       | ain in Remarks)                        |
| 3Indicators   | of hydrophytic veg                      | etation   | and wetland hydr            | olog  | y must be         | e presen         | t, unless disturbe          | ed or problematic. |  |
| Restrictive I | Layer (if observed):                    | :         |                             |       |                   |                  |                             |                    |  |
|               | Type:                                   |           | None                        |       |                   | Hydric           | Soil Present?               |                    | Yes/_ No                               |
|               | Depth (inches):                         |           |                             |       |                   |                  |                             |                    |  |
| Remarks:      |   |           |                             |       |                   |                  |                             |                    |  |
|               |   |           |                             |       |                   |                  |                             |                    |  |
|               |   |           |                             |       |                   |                  |                             |                    |  |
|               |   |           |                             |       |                   |                  |                             |                    |  |
|               |   |           |                             |       |                   |                  |                             |                    |  |
|               |   |           |                             |       |                   |                  |                             |                    |  |
|               |   |           |                             |       |                   |                  |                             |                    |  |
|               |   |           |                             |       |                   |                  |                             |                    |  |
|               |   |           |                             |       |                   |                  |                             |                    |  |
|               |   |           |                             |       |                   |                  |                             |                    |  |
|               |   |           |                             |       |                   |                  |                             |                    |  |
|               |   |           |                             |       |                   |                  |                             |                    |  |
|               |   |           |                             |       |                   |                  |                             |                    |  |
|               |   |           |                             |       |                   |                  |                             |                    |  |
|               |   |           |                             |       |                   |                  |                             |                    |  |
|               |   |           |                             |       |                   |                  |                             |                    |  |
|               |   |           |                             |       |                   |                  |                             |                    |  |
|               |   |           |                             |       |                   |                  |                             |                    |  |
|               |   |           |                             |       |                   |                  |                             |                    |  |
|               |   |           |                             |       |                   |                  |                             |                    |  |
|               |   |           |                             |       |                   |                  |                             |                    |  |



Photo of Sample Plot North



Photo of Sample Plot South



Photo of Sample Plot West



| or Hydrology  | _ significantly disturbed? Are "Norr<br>_ naturally problematic? (If needed   | p, Range: NA nvex, none): Concave   | Slope (%): 0 to 1 Datum: WGS84 ation: ks.) Yes _✓ No   |
|---|---|---|--|
| Depression  LRR L silt loam  ons on the site typical for or Hydrology  or Hydrology | Local relief (concave, cor<br>Lat: 42.84464154<br>or this time of year? Yes _ ✓ N<br>_ significantly disturbed? Are "Norr<br>_ naturally problematic? (If needed  | nvex, none): Concave  44 Long: -74.5105203801  NWI classification of the contact | Datum: WGS84 ation: ks.) Yes No  |
| LRR L silt loam  ons on the site typical for or Hydrology or Hydrology              | Lat: 42.84464154  or this time of year? _ significantly disturbed? _ naturally problematic?  (If needed)  | 44 Long: -74.5105203801  NWI classifica  No (If no, explain in Remarl mal Circumstances" present?   | Datum: WGS84 ation: ks.) Yes No  |
| silt loam  ns on the site typical fo  or Hydrology  or Hydrology                    | or this time of year? _ significantly disturbed? _ naturally problematic?  (If needed   | NWI classifica No (If no, explain in Remarl mal Circumstances" present?   | ation:<br>ks.)<br>Yes No   |
| ns on the site typical for hydrology  | _ significantly disturbed? Are "Norr<br>_ naturally problematic? (If needed   | No (If no, explain in Remarl mal Circumstances" present?  | ks.)<br>Yes No   |
| or Hydrology<br>or Hydrology  | _ significantly disturbed? Are "Norr<br>_ naturally problematic? (If needed   | mal Circumstances" present?   | Yes 🟒 No   |
| or Hydrology  | _ naturally problematic? (If needed   | · ·   |  |
|   |   | d, explain any answers in Rema  | rks.)  |
| Attach site map sh  |   |   |  |
| Yes   |   | hin a Wetland?  | es, etc.  Yes/_ No W-NSD-29  |
| W<br>Ad<br>M;<br>O:<br>Pr<br>Re<br>Th<br>Th<br>Ci                                   | Vater-Stained Leaves (B9) quatic Fauna (B13) larl Deposits (B15) ydrogen Sulfide Odor (C1) xidized Rhizospheres on Living Roots (C3) resence of Reduced Iron (C4) ecent Iron Reduction in Tilled Soils (C6) hin Muck Surface (C7) | Surface Soil Cracks (B6)  Drainage Patterns (B10)  Moss Trim Lines (B16)  Dry-Season Water Table (  Crayfish Burrows (C8)  ✓ Saturation Visible on Aeri  Stunted or Stressed Plant  ✓ Geomorphic Position (D2  Shallow Aquitard (D3)  Microtopographic Relief (   | icC2)<br>ial Imagery (C9)<br>ts (D1)<br>)  |
|   |   |   |  |
| Yes No _ <b>∠</b> _   | Depth (inches):   |   |  |
|   | · · · · · · · · · · · · · · · · · · ·   | Wetland Hydrology Present?  | Yes No   |
|   | · · · · · · · ·   | _   | <del></del>  |
| 1C2 🔨 IAO   | Deput (inches). 2   | -   |  |
|   |   |   | <del></del>  |
|   | ,   |   |  |
|   | orocedures here or in a  or one is required; check  W AG M H' OO Pr RG TH I Imagery (B7) OO e Surface (B8)  Yes No Yes No Yes No  | of one is required; check all that apply)  — Water-Stained Leaves (B9) — Aquatic Fauna (B13) — Marl Deposits (B15) — Hydrogen Sulfide Odor (C1) — Oxidized Rhizospheres on Living Roots (C3) — Presence of Reduced Iron (C4) — Recent Iron Reduction in Tilled Soils (C6) — Thin Muck Surface (C7) — Other (Explain in Remarks) e Surface (B8)  Yes No Depth (inches): Yes No Depth (inches):   | Depth (inches):  To one is required: check all that apply)  Water-Stained Leaves (B9) Aquatic Fauna (B13) Marl Deposits (B15) Dry-Season Water Table (Crayfish Burrows (C8) Presence of Reduced Iron (C4) Recent Iron Reduction in Tilled Soils (C6) Thin Muck Surface (C7) Other (Explain in Remarks) E Surface (B8)  Secondary Indicators (minim Surface Soil Cracks (B6) Dry-Season Water Table (Crayfish Burrows (C8) Saturation Visible on Aeri Stunted or Stressed Plant Geomorphic Position (D2 Shallow Aquitard (D3) Microtopographic Relief ( FAC-Neutral Test (D5)  Wetland Hydrology Present? |

| Dominant Indi<br>Species? Sta | cator Dominance Test v Number of Domin Are OBL, FACW, o Total Number of I Across All Strata: Percent of Domin Are OBL, FACW, o Prevalence Index Total % C OBL species FACW species | nant Species That<br>r FAC:<br>Dominant Species<br>ant Species That<br>r FAC:<br>worksheet:   | 1 1 100  Multiply I x 1 =   | (A)<br>(B)<br>(A/B)  |
|-------------------------------|--|---|---|--|
| = Total Cover                 | Total Number of I Across All Strata: Percent of Domin Are OBL, FACW, o Prevalence Index Total % C OBL species  | oominant Species  ant Species That r FAC: worksheet: cover of:  | 1 100 Multiply I  | (B)<br>(A/B)   |
| = Total Cover                 | Across All Strata: Percent of Domin Are OBL, FACW, o Prevalence Index Total % C OBL species  | ant Species That<br>r FAC:<br>worksheet:<br>Cover of:   | 100   | (A/B)  |
| = Total Cover                 | Across All Strata: Percent of Domin Are OBL, FACW, o Prevalence Index Total % C OBL species  | ant Species That<br>r FAC:<br>worksheet:<br>Cover of:   | 100   | (A/B)  |
| = Total Cover                 | Are OBL, FACW, o Prevalence Index Total % C OBL species  | r FAC:<br>worksheet:<br>Cover of:   | Multiply I  |  |
| - Total Cover                 | Are OBL, FACW, o Prevalence Index Total % C OBL species  | r FAC:<br>worksheet:<br>Cover of:   | Multiply I  |  |
| - Total Cover                 | Prevalence Index  Total % C  OBL species   | worksheet:<br>Cover of:   |   | <u>——</u><br>В <u>у:</u>   |
| = Total Cover                 | OBL species  | Cover of:   |   | <u>Ву:</u>   |
| Total Cover                   | OBL species  |   |   | <u>эу.</u>   |
| Total Cover                   | '  |   |   | 13   |
|                               | FACW species   | 0.5   | _   |  |
|                               |  | 85  | x 2 =   | 170  |
|                               | FAC species  | 0   | x 3 =   | 0  |
|                               | FACU species   | 0   | x 4 =   | 0  |
|                               | UPL species  | 0   | x 5 =   | 0  |
|                               | Column Totals  | 98  | (A)   | 183 (B)  |
|                               | Prevale  | nce Index = B/A =   | 1.9   |  |
|                               | •  |   |   |  |
|                               | , , ,  |   |   |  |
|                               |  |   | egetation   |  |
| Total Cover                   |  |   |   |  |
|                               | _ <b>✓</b> _3 - Prevalend  | te Index is $\leq 3.0^{1}$  |   |  |
| Voc EA                        | C/W .  |   |   | supporting   |
|                               | data in Remarks o  | or on a separate sh   | eet)  |  |
|                               | Problematic  | Hydrophytic Veget   | tation¹ (Ex   | plain)   |
|                               | indicators of flyd   | ric soil and wetland  | d hydrolog  | gy must be   |
| No C                          | PBL present, unless di   | sturbed or probler  | matic   |  |
|                               | Definitions of Veg   | etation Strata:   |   |  |
|                               | Tree – Woody plai  | nts 3 in. (7.6 cm) or   | more in c   | liameter at  |
|                               |  |   |   |  |
|                               |  |   |   | BH and   |
|                               |  |   |   |  |
|                               |  |   |   | ardless of   |
|                               |  |   |   | ar aress or  |
|                               |  |   |   | 28 ft in   |
|                               | _ =  | woody villes great  | .ci tilali 5  | 2011111  |
| Total Cover                   | · · · · · · · · · · · · · · · · · · ·  |   |   |  |
|                               | Hydrophytic Vego   | etation Present? Y  | ∕es <u> </u>  | 0  |
|                               |  |   |   |  |
|                               |  |   |   |  |
|                               |  |   |   |  |
|                               |  |   |   |  |
|                               |  |   |   |  |
| Total Cover                   |  |   |   |  |
|                               | No FA  | Prevale  Hydrophytic Vege   1 - Rapid Tes  2 - Dominan  2 - 3 - Prevalend  4 - Morphold  data in Remarks of  problematic  Indicators of hyd  present, unless di  Definitions of Veg  Tree - Woody plat  breast height (DB  Sapling/shrub - W  greater than or ed  Herb - All herbact  size, and woody p  Woody vines - All  height. | Hydrophytic Vegetation Indicators:  ✓ 1- Rapid Test for Hydrophytic V ✓ 2 - Dominance Test is >50% ✓ 3 - Prevalence Index is ≤ 3.0¹ — 4 - Morphological Adaptations¹ data in Remarks or on a separate sh — Problematic Hydrophytic Vege¹ ¹Indicators of hydric soil and wetlan- present, unless disturbed or probler  Definitions of Vegetation Strata: Tree – Woody plants 3 in. (7.6 cm) or breast height (DBH), regardless of h- Sapling/shrub – Woody plants less ti greater than or equal to 3.28 ft (1 m Herb – All herbaceous (non-woody) size, and woody plants less than 3.2 Woody vines – All woody vines great height. | Prevalence Index = B/A = 1.9  Hydrophytic Vegetation Indicators:  ✓ 1- Rapid Test for Hydrophytic Vegetation ✓ 2 - Dominance Test is >50% ✓ 3 - Prevalence Index is ≤ 3.0¹ — 4 - Morphological Adaptations¹ (Provide state in Remarks or on a separate sheet) — Problematic Hydrophytic Vegetation¹ (Externation of the sent in the sent |

|              | cription: (Describe                     | to the c | •                |          |                   | ndicator         | or confirm the a            | absence of indicato | ors.)                                 |
|--------------|---|----------|------------------|----------|-------------------|------------------|-----------------------------|---------------------|---------------------------------------|
| Depth        | Matrix                                  |          | Redox            |          |                   |                  |                             |                     |                                       |
| (inches)     | Color (moist)                           | <u>%</u> | Color (moist)    | <u>%</u> | Type <sup>1</sup> | Loc <sup>2</sup> |                             | ture                | Remarks                               |
| 0 - 4        | 10YR 2/1                                | 100      |                  |          |                   |                  | Silty Cla                   | ıy Loam             |                                       |
| 4 - 14       | 10YR 2/1                                | 95       | 7.5YR 4/6        | 5        | C                 | M                | Silty Cla                   | y Loam              |                                       |
| 14 - 20      | 10YR 3/1                                | 85       | 10YR 5/8         | 15       | С                 | M                | Clay I                      | Loam                |                                       |
|              |   |          |                  |          |                   |                  |                             |                     |                                       |
|              |   |          |                  |          |                   |                  |                             | _                   |                                       |
|              |   |          |                  |          |                   |                  |                             |                     |                                       |
|              |   |          |                  | _        |                   |                  |                             |                     |                                       |
|              |   |          |                  |          |                   |                  |                             |                     |                                       |
|              |   |          |                  |          |                   |                  |                             |                     | -                                     |
|              |   |          |                  | _        |                   |                  |                             |                     |                                       |
|              |   |          |                  | _        |                   |                  |                             |                     |                                       |
|              |   |          |                  |          |                   |                  |                             |                     |                                       |
|              |   |          |                  |          |                   |                  |                             |                     |                                       |
| ¹Type: C = 0 | Concentration, D =                      | Depleti  | on, RM = Reduced | Mati     | rix, MS =         | Masked           | Sand Grains. <sup>2</sup> L |                     | Lining, M = Matrix.                   |
| Hydric Soil  | Indicators:                             |          |                  |          |                   |                  |                             | Indicators for P    | roblematic Hydric Soils³:             |
| Histoso      |   |          | Polyvalue Be     |          |                   |                  |                             | 2 cm Muck (         | (A10) (LRR K, L, MLRA 149B)           |
|              | pipedon (A2)                            |          | Thin Dark Su     |          |                   |                  |                             | Coast Prairie       | e Redox (A16) <b>(LRR K, L, R)</b>    |
|              | istic (A3)                              |          | Loamy Muck       | -        |                   | (LRR K, L        | .)                          | 5 cm Mucky          | Peat or Peat (S3) (LRR K, L, R)       |
| ,            | en Sulfide (A4)                         |          | Loamy Gleye      |          |                   |                  |                             | Dark Surface        | e (S7) <b>(LRR K, L)</b>              |
|              | ed Layers (A5)                          |          | Depleted Ma      |          |                   |                  |                             | Polyvalue Be        | elow Surface (S8) <b>(LRR K, L)</b>   |
|              | ed Below Dark Surf                      | ace (AT  |                  |          |                   |                  |                             | Thin Dark Su        | urface (S9) <b>(LRR K, L)</b>         |
|              | ark Surface (A12)<br>Mucky Mineral (S1) |          | Depleted Da      |          |                   |                  |                             | Iron-Manga          | nese Masses (F12) (LRR K, L, R)       |
|              |   |          | Redox Depre      | essior   | IS (F8)           |                  |                             | Piedmont Fl         | oodplain Soils (F19) (MLRA 149B)      |
| -            | Gleyed Matrix (S4)                      |          |                  |          |                   |                  |                             | Mesic Spodi         | c (TA6) <b>(MLRA 144A, 145, 149B)</b> |
| _            | Redox (S5)                              |          |                  |          |                   |                  |                             | Red Parent l        | Material (F21)                        |
|              | d Matrix (S6)                           |          |                  |          |                   |                  |                             | Very Shallov        | v Dark Surface (TF12)                 |
| Dark Su      | urface (S7) <b>(LRR R, I</b>            | MLRA 14  | 19B)             |          |                   |                  |                             | Other (Expla        | ain in Remarks)                       |
| 3Indicators  | of hydrophytic veg                      | getation | and wetland hyd  | rolog    | y must be         | e presen         | t, unless disturbe          | ed or problematic.  |                                       |
| Restrictive  | Layer (if observed)                     | ):       |                  |          |                   |                  |                             |                     |                                       |
|              | Type:                                   |          | None             |          |                   | Hydric           | Soil Present?               |                     | Yes No                                |
|              | Depth (inches):                         |          |                  |          |                   | 1                |                             |                     |                                       |
| Remarks:     | 2 cp c (ees).                           |          |                  |          |                   | 1                |                             |                     |                                       |
| Kemaiks.     |   |          |                  |          |                   |                  |                             |                     |                                       |
|              |   |          |                  |          |                   |                  |                             |                     |                                       |
|              |   |          |                  |          |                   |                  |                             |                     |                                       |
|              |   |          |                  |          |                   |                  |                             |                     |                                       |
|              |   |          |                  |          |                   |                  |                             |                     |                                       |
|              |   |          |                  |          |                   |                  |                             |                     |                                       |
|              |   |          |                  |          |                   |                  |                             |                     |                                       |
|              |   |          |                  |          |                   |                  |                             |                     |                                       |
|              |   |          |                  |          |                   |                  |                             |                     |                                       |
|              |   |          |                  |          |                   |                  |                             |                     |                                       |
|              |   |          |                  |          |                   |                  |                             |                     |                                       |
|              |   |          |                  |          |                   |                  |                             |                     |                                       |
|              |   |          |                  |          |                   |                  |                             |                     |                                       |
|              |   |          |                  |          |                   |                  |                             |                     |                                       |
|              |   |          |                  |          |                   |                  |                             |                     |                                       |
|              |   |          |                  |          |                   |                  |                             |                     |                                       |
|              |   |          |                  |          |                   |                  |                             |                     |                                       |
|              |   |          |                  |          |                   |                  |                             |                     |                                       |
|              |   |          |                  |          |                   |                  |                             |                     |                                       |
|              |   |          |                  |          |                   |                  |                             |                     |                                       |
|              |   |          |                  |          |                   |                  |                             |                     |                                       |



Photo of Sample Plot East



Photo of Sample Plot South



Photo of Sample Plot West



| Project/Site: Flat Creek Solar Pr  | roject                   | City/County: Canajoha      | rie, Montgomery Cou       | nty Sampling Date  | e: 2021-Sept-17          |  |  |
|--|--------------------------|----------------------------|---------------------------|--|--------------------------|--|--|
| Applicant/Owner: SunEast   |                          |                            | State: NY                 | Sampling Point:  | W-NSD-29_PSS-3           |  |  |
| Investigator(s): Nick DeJohn,  | Abi Light                |                            | Section, Township,        | Range: NA  |                          |  |  |
| Landform (hillslope, terrace, etc  | c.): Channel             | Local                      | relief (concave, conv     | ex, none): Undulating  | <b>Slope (%):</b> 1 to 3 |  |  |
| Subregion (LRR or MLRA):   | LRR L                    |                            | Lat: 42.841729796         | 5 Long: -74.5160813537   | Datum: WGS84             |  |  |
| Soil Map Unit Name: Appleto  | on silt loam, 3 to 8 per | cent slopes                |                           | NWI classi   | fication:                |  |  |
| Are climatic/hydrologic conditio   | ns on the site typical t | for this time of year?     | Yes 🟒 No                  | (If no, explain in Rem   | arks.)                   |  |  |
| Are Vegetation, Soil   | or Hydrology             | significantly disturbe     | ed? Are "Norma            | al Circumstances" present?   | Yes No                   |  |  |
| Are Vegetation, Soil   | or Hydrology             | naturally problemati       | ic? (If needed,           | explain any answers in Rer   | marks.)                  |  |  |
| SUMMARY OF FINDINGS –  Hydrophytic Vegetation Preser Hydric Soil Present?  Wetland Hydrology Present?  Remarks: (Explain alternative p Covertype is PSS.   | Yes<br>Yes<br>Yes        |                            | oint locations, tran      | n a Wetland?   | Yes/_ No<br>W-NSD-29     |  |  |
| HYDROLOGY  Wetland Hydrology Indicators:  Primary Indicators (minimum of the control of the cont | /                        | Water-Stained Leaves (I    |                           | Secondary Indicators (min<br>Surface Soil Cracks (B6<br>Drainage Patterns (B10 | )                        |  |  |
| <u>✓</u> High Water Table (A2)   | /                        | Aquatic Fauna (B13)        |                           | Moss Trim Lines (B16)  |                          |  |  |
| ✓ Saturation (A3)  |                          | Marl Deposits (B15)        |                           | Noss ITITI Lines (BT6) Dry-Season Water Table (C2)                             |                          |  |  |
| Water Marks (B1)   |                          | Hydrogen Sulfide Odor      |                           | Cravfish Burrows (C8)  |                          |  |  |
| Sediment Deposits (B2)   |                          | Oxidized Rhizospheres      | •                         | 3) Saturation Visible on Aerial Imagery (C9)                                   |                          |  |  |
| Drift Deposits (B3)  |                          | Presence of Reduced Ir     |                           | Stunted or Stressed Plants (D1)  |                          |  |  |
| Algal Mat or Crust (B4)  |                          | Recent Iron Reduction i    | n Tilled Soils (C6)       | Stanted of Stressed Flattes (5.1) Geomorphic Position (D2)                     |                          |  |  |
| Iron Deposits (B5)   |                          | Thin Muck Surface (C7)     |                           | Shallow Aquitard (D3)  |                          |  |  |
| Inundation Visible on Aeria  | J ,                      | Other (Explain in Remar    | rks)                      | Microtopographic Relie   | ef (D4)                  |  |  |
| Sparsely Vegetated Concav  | e Surrace (B8)           |                            |                           | ✓ FAC-Neutral Test (D5)  |                          |  |  |
| Field Observations:  |                          |                            |                           |  |                          |  |  |
| Surface Water Present?   | Yes No                   | Depth (inche               | es):                      |  |                          |  |  |
| Water Table Present?   | Yes No                   |                            | es): 10                   | Wetland Hydrology Preser   | nt? Yes No               |  |  |
| Saturation Present?  | Yes <u></u> ✓ No         |                            | es): 6                    |  |                          |  |  |
| (includes capillary fringe)  |                          | , .                        |                           |  |                          |  |  |
| Describe Recorded Data (strea  | m gauge monitoring       | well serial photos prev    | ious inspections) if a    | vailahla.  |                          |  |  |
| Describe Recorded Data (strea  | in gauge, monitoring     | well, aeriai priotos, pre- | rious irispections), ir e | ivaliable.   |                          |  |  |
|  |                          |                            |                           |  |                          |  |  |
|  |                          |                            |                           |  |                          |  |  |
| Remarks:   |                          |                            |                           |  |                          |  |  |
|  |                          |                            |                           |  |                          |  |  |
|  |                          |                            |                           |  |                          |  |  |
|  |                          |                            |                           |  |                          |  |  |
|  |                          |                            |                           |  |                          |  |  |
|  |                          |                            |                           |  |                          |  |  |
|  |                          |                            |                           |  |                          |  |  |
|  |                          |                            |                           |  |                          |  |  |
|  |                          |                            |                           |  |                          |  |  |

| T <u>ree Stratum</u> (Plot size: <u>30 ft</u> )<br>1. |    | Dominant<br>Species? | Indicator<br>Status | Number of Dominant S<br>Are OBL, FACW, or FAC      | Species That | 3              | (A)         |
|---|----|----------------------|---------------------|--|--------------|----------------|-------------|
| 2.  |    |                      |                     | Total Number of Domi Across All Strata:            |              | 3              | (B)         |
| 3.<br>  |    |                      |                     | Percent of Dominant S  Are OBL, FACW, or FAC       |              | 100            | (A/B)       |
| 5   |    |                      |                     | Prevalence Index work                              |              |                |             |
| 5.  |    |                      |                     | Total % Cover                                      | of:          | Multiply I     | <u>3y:</u>  |
| 7   |    |                      |                     | - OBL species                                      | 0            | x 1 =          | 0           |
|   | 0  | = Total Cov          | er                  | FACW species                                       | 90           | x 2 =          | 180         |
| Sapling/Shrub Stratum (Plot size: 15 ft )             |    |                      |                     | FAC species  | 20           | x 3 =          | 60          |
| I. Salix bebbiana                                     | 35 | Yes                  | FACW                | FACU species                                       | 7            | x 4 =          | 28          |
| 2. <i>Salix alba</i>                                  | 15 | Yes                  | FACW                | UPL species  | 0            | x 5 =          | 0           |
| 3.  |    |                      |                     | Column Totals                                      | 117          | (A)            | 268 (B)     |
| 4   |    |                      |                     | Prevalence I                                       |              | 2.3            | (D)         |
| 5.  |    |                      |                     | -  |              |                | <del></del> |
| 5.  |    |                      |                     | Hydrophytic Vegetation                             |              | ( t - t : - ·- |             |
| 7   |    |                      |                     | 1- Rapid Test for                                  |              | regetation     |             |
|   | 50 | = Total Cov          | er                  | 2 - Dominance Te                                   |              |                |             |
| Herb Stratum (Plot size:5 ft)                         |    | _                    |                     | 3 - Prevalence Inc                                 |              |                |             |
| 1. Onoclea sensibilis                                 | 40 | Yes                  | FACW                | 4 - Morphologica data in Remarks or on             |              |                | supporting  |
| 2. Cornus racemosa                                    | 10 | No                   | FAC                 |  |              |                | رمزداد)     |
| 3. Equisetum arvense                                  | 10 | No                   | FAC                 | Problematic Hydi                                   |              |                |             |
| 4. Solidago canadensis                                | 7  | No                   | FACU                | Indicators of hydric so<br>present, unless disturb |              | -              | y must be   |
| 5.  |    |                      |                     | -  |              | TIALIC         |             |
|   |    |                      |                     | Definitions of Vegetation                          |              | r mara in d    | iamatara    |
| 7   |    |                      |                     | Tree – Woody plants 3<br>breast height (DBH), re   |              |                | iameter a   |
|   |    |                      |                     | Sapling/shrub – Woody                              |              |                | RH and      |
| 3.<br>9.  |    |                      |                     | greater than or equal t                            | •            |                | Dirana      |
|   |    |                      |                     | Herb – All herbaceous                              |              |                | ardless of  |
| 10  |    |                      |                     | size, and woody plants                             |              |                | ai aicss oi |
| 11  |    |                      |                     | Woody vines – All woo                              |              |                | 28 ft in    |
| 12  |    |                      |                     | height.  | a, 1es 8. ea |                | -0          |
|   | 67 | = Total Cov          | er                  |  | n Drocont2 \ | /oc / N        |             |
| Woody Vine Stratum (Plot size: <u>30 ft</u> )         |    |                      |                     | Hydrophytic Vegetation                             | iii Present? | res iv         | u           |
| 1   |    |                      |                     | -  |              |                |             |
| <u>2</u> .  |    |                      |                     | _  |              |                |             |
|   |    |                      |                     |  |              |                |             |
| 3.  |    | . <u></u> -          |                     | _[   |              |                |             |
| 3.<br>4.  |    |                      |                     | i .  |              |                |             |

| Profile Desc | cription: (Describe         | to the de    | -                |          |                   | ndicator          | or confirm the a            | bsence of indicato | ors.)                                    |
|--------------|-----------------------------|--------------|------------------|----------|-------------------|-------------------|-----------------------------|--------------------|--|
| Depth _      | Matrix                      |              | Redox            | Feat     | ures              |                   |                             |                    |  |
| (inches)     | Color (moist)               | %            | Color (moist)    | %        | Type <sup>1</sup> | Loc <sup>2</sup>  | Text                        | ure                | Remarks                                  |
| 0 - 8        | 10YR 3/2                    | 100          |                  |          |                   |                   | Silt Lo                     | oam                |  |
| 8 - 20       | 10YR 3/2                    | 95           | 10YR 5/8         | 5        | C                 | M                 | Silty Cla                   | y Loam             |  |
|              |                             |              |                  | _        |                   |                   |                             |                    |  |
|              |                             |              |                  | _        |                   |                   |                             |                    |  |
|              |                             |              |                  | _        |                   |                   |                             |                    |  |
|              |                             |              |                  | _        |                   |                   |                             |                    |  |
|              |                             |              |                  | _        |                   |                   |                             |                    |  |
|              |                             |              |                  | _        |                   |                   |                             |                    |  |
|              |                             |              |                  | _        |                   |                   |                             |                    |  |
|              |                             |              |                  | _        |                   |                   |                             |                    |  |
|              |                             |              |                  | _        |                   |                   |                             |                    |  |
|              |                             |              |                  |          |                   |                   |                             |                    |  |
|              |                             |              |                  |          |                   |                   |                             |                    |  |
| ¹Tvpe: C = C | oncentration, D =           | <br>Depletio | n. RM = Reduced  | —<br>Mat | rix. MS =         | Masked            | Sand Grains. <sup>2</sup> L | ocation: PL = Pore | Lining, M = Matrix.                      |
| Hydric Soil  |                             |              | .,               |          | ,                 |                   |                             |                    | roblematic Hydric Soils³:                |
| Histosol     |                             |              | Polyvalue Bel    | 0W/ S    | urfaca (S         | ۵۱ <b>(I DD I</b> | MIDΔ 1/OR)                  |                    | •  |
|              | oipedon (A2)                |              | Thin Dark Sur    |          |                   |                   |                             |                    | (A10) (LRR K, L, MLRA 149B)              |
| Black Hi     | •                           |              | Loamy Mucky      |          |                   |                   |                             | <del></del>        | e Redox (A16) <b>(LRR K, L, R)</b>       |
| l            | en Sulfide (A4)             |              | Loamy Gleyed     |          |                   | (LKK K, L         | -)                          |                    | Peat or Peat (S3) <b>(LRR K, L, R)</b>   |
| ,            | d Layers (A5)               |              | Depleted Mat     |          |                   |                   |                             | Dark Surfac        |  |
|              | d Below Dark Surfa          |              |                  |          |                   |                   |                             |                    | elow Surface (S8) <b>(LRR K, L)</b>      |
|              | ark Surface (A12)           |              | Depleted Dar     |          |                   |                   |                             |                    | urface (S9) <b>(LRR K, L)</b>            |
|              | lucky Mineral (S1)          |              | Redox Depre      |          |                   |                   |                             |                    | nese Masses (F12) <b>(LRR K, L, R)</b>   |
|              | ileyed Matrix (S4)          |              | Nedox Depre      | 33101    | 13 (10)           |                   |                             | Piedmont Fl        | loodplain Soils (F19) <b>(MLRA 149B)</b> |
| -            | •                           |              |                  |          |                   |                   |                             | Mesic Spodi        | ic (TA6) <b>(MLRA 144A, 145, 149B)</b>   |
| -            | edox (S5)                   |              |                  |          |                   |                   |                             | Red Parent         | Material (F21)                           |
|              | d Matrix (S6)               |              |                  |          |                   |                   |                             | Very Shallov       | w Dark Surface (TF12)                    |
| Dark Su      | rface (S7) <b>(LRR R, N</b> | /ILRA 149    | 9B)              |          |                   |                   |                             | Other (Expla       | ain in Remarks)                          |
| 3Indicators  | of hydrophytic veg          | etation a    | and wetland hydr | olog     | y must be         | e presen          | t, unless disturbe          | ed or problematic. |  |
| -            | _ayer (if observed):        |              |                  |          | ,                 | İ                 |                             |                    |  |
|              | Type:                       |              | None             |          |                   | Hydric            | Soil Present?               |                    | Yes No                                   |
|              | Depth (inches):             |              | IVOITE           |          |                   | liyanc            | Jon 1 reserie.              |                    | 165 <u>7</u> 110                         |
|              | Deptit (inches).            |              |                  |          |                   |                   |                             |                    |  |
| Remarks:     |                             |              |                  |          |                   |                   |                             |                    |  |
|              |                             |              |                  |          |                   |                   |                             |                    |  |
|              |                             |              |                  |          |                   |                   |                             |                    |  |
|              |                             |              |                  |          |                   |                   |                             |                    |  |
|              |                             |              |                  |          |                   |                   |                             |                    |  |
|              |                             |              |                  |          |                   |                   |                             |                    |  |
|              |                             |              |                  |          |                   |                   |                             |                    |  |
|              |                             |              |                  |          |                   |                   |                             |                    |  |
|              |                             |              |                  |          |                   |                   |                             |                    |  |
|              |                             |              |                  |          |                   |                   |                             |                    |  |
|              |                             |              |                  |          |                   |                   |                             |                    |  |
|              |                             |              |                  |          |                   |                   |                             |                    |  |
|              |                             |              |                  |          |                   |                   |                             |                    |  |
|              |                             |              |                  |          |                   |                   |                             |                    |  |
|              |                             |              |                  |          |                   |                   |                             |                    |  |
|              |                             |              |                  |          |                   |                   |                             |                    |  |
|              |                             |              |                  |          |                   |                   |                             |                    |  |
| ]            |                             |              |                  |          |                   |                   |                             |                    |  |
|              |                             |              |                  |          |                   |                   |                             |                    |  |
| ]            |                             |              |                  |          |                   |                   |                             |                    |  |
| ]            |                             |              |                  |          |                   |                   |                             |                    |  |
|              |                             |              |                  |          |                   |                   |                             |                    |  |



Photo of Sample Plot North



Photo of Sample Plot East



Photo of Sample Plot South



| Project/Site: Flat Creek Solar Pr   | oject       |                   | City/County: Spr   | akers, Montgom   | nery County  | Sampling Date: 2021-Sept-17   |  |  |  |
|---|-------------|-------------------|--|--|--------------|---|--|--|--|
| Applicant/Owner: SunEast  |             |                   | _  |  | State: NY    | Sampling Point: W-NSD-29_PUB-2  |  |  |  |
| Investigator(s): Nick DeJohn, A   | Abi Light   |                   |  | Section  | , Township,  | , Range: NA   |  |  |  |
| Landform (hillslope, terrace, etc.  | .): De      | epression         |  | Local relief (co                                       | ncave, conv  | vex, none): Concave Slope (%): 0  |  |  |  |
| Subregion (LRR or MLRA):  | LRR L       |                   |  | <b>Lat:</b> 42   | .845335900   | 08 Long: -74.511558814 Datum: WGS   |  |  |  |
| Soil Map Unit Name: Fredon  | silt loam   |                   |  |  |              | NWI classification:   |  |  |  |
| Are climatic/hydrologic condition   | ns on the   | site typic        | al for this time of ye   | ear? Y   | ∕es <u> </u> | o (If no, explain in Remarks.)  |  |  |  |
| Are Vegetation, Soil,   | or Hy       | drology           | significantly di   | sturbed?   | Are "Norm    | nal Circumstances" present? Yes 🟒 No  |  |  |  |
| Are Vegetation, Soil,   | or Hy       | drology           | naturally prob   | lematic?   | (If needed,  | , explain any answers in Remarks.)  |  |  |  |
| Hydrophytic Vegetation Present<br>Hydric Soil Present?<br>Wetland Hydrology Present?<br>Remarks: (Explain alternative processing of the present)      | t?          | Yes<br>Yes<br>Yes | ✓ No<br>✓ No   | Is the Sampleo   | d Area with  |   |  |  |  |
| HYDROLOGY  Wetland Hydrology Indicators:  Primary Indicators (minimum o  Surface Water (A1)  High Water Table (A2)  Saturation (A3)  Water Marks (B1) | f one is re | equired; o        | heck all that apply)  _ Water-Stained Le  _ Aquatic Fauna (B'  _ Marl Deposits (B1  _ Hydrogen Sulfide | 13)<br>5)  |              | Secondary Indicators (minimum of two require Surface Soil Cracks (B6) Drainage Patterns (B10) Moss Trim Lines (B16) Dry-Season Water Table (C2) |  |  |  |
| Sediment Deposits (B2)  Drift Deposits (B3)  Algal Mat or Crust (B4)  Iron Deposits (B5)  |             | -<br>-<br>-       | Tryurogen Sunde<br>Oxidized Rhizosp<br>Presence of Redu<br>Recent Iron Redu<br>Thin Muck Surfac        | heres on Living<br>ced Iron (C4)<br>ction in Tilled So |              | Crayfish Burrows (C8) Saturation Visible on Aerial Imagery (C9) Stunted or Stressed Plants (D1) Geomorphic Position (D2)                        |  |  |  |
| Iron Deposits (B5) Inundation Visible on Aerial   | Imagery (   | B7)               | _ Other (Explain in  |  |              | Shallow Aquitard (D3)   |  |  |  |
| Sparsely Vegetated Concave  | 0,          |                   | _ Street (Explaint III   |  |              | Microtopographic Relief (D4)  |  |  |  |
|   |             |                   |  |  |              | <u>✓</u> FAC-Neutral Test (D5)  |  |  |  |
| Field Observations:   |             |                   |  |  |              |   |  |  |  |
| Surface Water Present?  | Yes _       | <u>✓</u> No _     | Depth  | (inches):  | 36           | _   |  |  |  |
| Water Table Present?  | Yes _       | <u>✓</u> No _     | Depth  | (inches):  | 0            | Wetland Hydrology Present? Yes No   |  |  |  |
| Saturation Present?   | Yes _       | <u>✓</u> No _     | Depth  | (inches):  | 0            |   |  |  |  |
| (includes capillary fringe)   |             |                   |  |  |              |   |  |  |  |
| Describe Recorded Data (stream  | n gauge, ı  | monitorir         | ng well, aerial photo  | s, previous insp                                       | ections), if | available:  |  |  |  |
|   |             |                   |  |  |              |   |  |  |  |
|   |             |                   |  |  |              |   |  |  |  |
| Remarks:  |             |                   |  |  |              |   |  |  |  |
|   |             |                   |  |  |              |   |  |  |  |
|   |             |                   |  |  |              |   |  |  |  |
|   |             |                   |  |  |              |   |  |  |  |
|   |             |                   |  |  |              |   |  |  |  |
|   |             |                   |  |  |              |   |  |  |  |
|   |             |                   |  |  |              |   |  |  |  |
|   |             |                   |  |  |              |   |  |  |  |

| Status  Status  FACW | Dominance Test worksheet:  Number of Dominant Species Thate Are OBL, FACW, or FAC:  Total Number of Dominant Species Across All Strata:  Percent of Dominant Species Thate Are OBL, FACW, or FAC:  Prevalence Index worksheet:  Total % Cover of:  OBL species 8  FACW species 10  FAC species 0  FACU species 0  UPL species 0  Column Totals 18  Prevalence Index = B/A series | s 3  | (A) (B) (A/B)  y: 8 20 0   |
|----------------------|--|--|--|
| ver                  | Are OBL, FACW, or FAC: Total Number of Dominant Specie Across All Strata: Percent of Dominant Species That Are OBL, FACW, or FAC: Prevalence Index worksheet: Total % Cover of: OBL species 8 FACW species 10 FAC species 0 FACU species 0 UPL species 0 Column Totals 18  | Multiply B x 1 = x 2 = x 3 = x 4 =   | (B)<br>(A/B)<br>y:<br>8<br>20  |
|                      | Total Number of Dominant Species Across All Strata: Percent of Dominant Species That Are OBL, FACW, or FAC: Prevalence Index worksheet: Total % Cover of: OBL species 8 FACW species 10 FAC species 0 FACU species 0 UPL species 0 Column Totals 18  | 100<br>Multiply B<br>x 1 =<br>x 2 =<br>x 3 =<br>x 4 =  | (A/B)<br>y:<br>8<br>20   |
|                      | Across All Strata: Percent of Dominant Species That Are OBL, FACW, or FAC: Prevalence Index worksheet: Total % Cover of: OBL species 8 FACW species 10 FAC species 0 FACU species 0 UPL species 0 Column Totals 18   | 100<br>Multiply B<br>x 1 =<br>x 2 =<br>x 3 =<br>x 4 =  | (A/B)<br>y:<br>8<br>20   |
|                      | Percent of Dominant Species That Are OBL, FACW, or FAC: Prevalence Index worksheet: Total % Cover of: OBL species 8 FACW species 10 FAC species 0 FACU species 0 UPL species 0 Column Totals 18  | Multiply B   | <b>y:</b> 8 20   |
|                      | Are OBL, FACW, or FAC:  Prevalence Index worksheet:  Total % Cover of:  OBL species 8  FACW species 10  FAC species 0  FACU species 0  UPL species 0  Column Totals 18   | Multiply B   | <b>y:</b> 8 20   |
|                      | - Prevalence Index worksheet:  | x 1 =<br>x 2 =<br>x 3 =<br>x 4 =   | 8 20   |
|                      | Total % Cover of:  | x 1 =<br>x 2 =<br>x 3 =<br>x 4 =   | 8 20   |
|                      | - OBL species 8 FACW species 10 FAC species 0 - FACU species 0 - UPL species 0 - Column Totals 18  | x 1 =<br>x 2 =<br>x 3 =<br>x 4 =   | 8 20   |
|                      | FACW species         10           FAC species         0           FACU species         0           UPL species         0           Column Totals         18  | x 2 =<br>x 3 =<br>x 4 =  | 20   |
| FACW                 | FAC species         0           FACU species         0           UPL species         0           Column Totals         18  | x 3 =<br>x 4 =   |  |
| FACW                 | FACU species         0           UPL species         0           Column Totals         18  | x 4 =  | 0  |
|                      | UPL species         0           Column Totals         18   | _  |  |
|                      | - Column Totals 18   | x 5 =  | 0  |
|                      |  |  | 0  |
|                      | Prevalence Index = B/A   | (A)  | 28 (B)   |
|                      |  | 1.6  |  |
|                      | Hydrophytic Vegetation Indicators  |  |  |
|                      | 1- Rapid Test for Hydrophytic  |  |  |
|                      | 2 - Dominance Test is >50%   | . vegetation   |  |
| ver                  | $\checkmark$ 3 - Prevalence Index is $\le$ 3.0   |  |  |
|                      |  |  |  |
| OBL                  |  |  | gnirroddr  |
| OBL                  |  |  | lain)  |
|                      |  |  |  |
|                      |  |  | / must be  |
|                      | <del></del>  | ematic   |  |
|                      |  |  |  |
|                      |  |  | ameter at  |
|                      |  | -  |  |
|                      | <b>=  </b>   |  | 3H and   |
|                      | _   -  |  |  |
|                      |  |  | raless of  |
|                      |  |  | 0.6.   |
|                      |  | ater than 3.2  | 8 ft in  |
| ver                  |  |  |  |
|                      | Hydrophytic Vegetation Present?  | Yes No   | ·  |
|                      |  |  |  |
|                      | _  |  |  |
| -                    | -  |  |  |
|                      | -  |  |  |
|                      | -  |  |  |
| vei                  |  |  |  |
|                      | · <del></del>  | 4 - Morphological Adaptation data in Remarks or on a separate: Problematic Hydrophytic Veg 'Indicators of hydric soil and wetla present, unless disturbed or problemation of Vegetation Strata: Tree – Woody plants 3 in. (7.6 cm) breast height (DBH), regardless of Sapling/shrub – Woody plants less greater than or equal to 3.28 ft (1 Herb – All herbaceous (non-woody size, and woody plants less than 3 Woody vines – All woody vines green height.  Hydrophytic Vegetation Present? | OBL OBL OBL  4 - Morphological Adaptations¹ (Provide state and the problematic Hydrophytic Vegetation¹ (Exp. 1 Indicators of hydric soil and wetland hydrology present, unless disturbed or problematic  Definitions of Vegetation Strata:  Tree – Woody plants 3 in. (7.6 cm) or more in disbreast height (DBH), regardless of height.  Sapling/shrub – Woody plants less than 3 in. DE greater than or equal to 3.28 ft (1 m) tall.  Herb – All herbaceous (non-woody) plants, regasize, and woody plants less than 3.28 ft tall.  Woody vines – All woody vines greater than 3.25 height.  Hydrophytic Vegetation Present? Yes ✓ No |

| Profile Description: (Describe to the depth           | n needed to docum                     | ent the indicator | r or confirm the abs                       | ence of indicators.)                                  |
|---|---------------------------------------|-------------------|--|---|
| Depth Matrix  | Redox Featu                           | res               |  |   |
| (inches) Color (moist) % Co                           | olor (moist) %                        | Type¹ Loc²        | Texture                                    | Remarks   |
| -   |                                       |                   |  |   |
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|   |                                       |                   |  |   |
| ¹Type: C = Concentration, D = Depletion, F            | RM = Reduced Matr                     | ix, MS = Masked   | Sand Grains. <sup>2</sup> Loc              | ation: PL = Pore Lining, M = Matrix.                  |
| Hydric Soil Indicators:                               |                                       |                   | 1  | ndicators for Problematic Hydric Soils <sup>3</sup> : |
| 1   | Polyvalue Below St                    |                   | · · · · · · · · · · · · · · · · · · ·      | 2 cm Muck (A10) <b>(LRR K, L, MLRA 149B)</b>          |
|   | Thin Dark Surface                     |                   | A 149B)                                    | Coast Prairie Redox (A16) (LRR K, L, R)               |
|   | Loamy Mucky Mine                      | _)                | 5 cm Mucky Peat or Peat (S3) (LRR K, L, R) |   |
|   | Loamy Gleyed Mat                      |                   |  | Dark Surface (S7) <b>(LRR K, L)</b>                   |
|   | Depleted Matrix (F                    |                   |  | Polyvalue Below Surface (S8) (LRR K, L)               |
| Depleted Below Dark Surface (A11)                     |                                       |                   |  | Thin Dark Surface (S9) (LRR K, L)                     |
|   | Depleted Dark Sur<br>Redox Depression |                   |  | Iron-Manganese Masses (F12) (LRR K, L, R)             |
|   | Redux Deplession                      | S (FO)            |  | Piedmont Floodplain Soils (F19) (MLRA 149B)           |
| Sandy Gleyed Matrix (S4)                              |                                       |                   |  | Mesic Spodic (TA6) <b>(MLRA 144A, 145, 149B)</b>      |
| Sandy Redox (S5)                                      |                                       |                   |  | Red Parent Material (F21)                             |
| Stripped Matrix (S6)                                  |                                       |                   |  | Very Shallow Dark Surface (TF12)                      |
| Dark Surface (S7) (LRR R, MLRA 149B)                  |                                       |                   |  | _∕_ Other (Explain in Remarks)                        |
| <sup>3</sup> Indicators of hydrophytic vegetation and | wetland hydrology                     | must be preser    | nt, unless disturbed                       | or problematic.                                       |
| Restrictive Layer (if observed):                      |                                       |                   |  |   |
| Type:   | None                                  | Hydric            | Soil Present?                              | Yes No  |
| Depth (inches):                                       |                                       |                   |  |   |
| Remarks:  |                                       | ·                 |  |   |
| Due to inundation a clear soil profile was            | unobtainable. Soils                   | are assumed to    | he hydric                                  |   |
| Dae to managiona cicar son prome mas                  | a                                     |                   | , 20 mg an ici                             |   |
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|   |                                       |                   |  |   |

Hydrology Photos



Photo of Sample Plot North



Photo of Sample Plot South



Photo of Sample Plot West



| Project/Site: Flat Creek Solar Pro                                     | ject                  | City/County: ,                         |                                 |   | Sampling Date: 20                               | 21-Sept-17          |  |  |
|--|-----------------------|--|---------------------------------|---|---|---------------------|--|--|
| Applicant/Owner: SunEast   |                       |  | State:                          |   | Sampling Point: W-N                             | SD-29_UPL-1         |  |  |
| Investigator(s): Nick DeJohn, A  | bi Light              |  | Section, Township,              | Range: NA                                 | Α   |                     |  |  |
| Landform (hillslope, terrace, etc.)                                    | : Flat                |  | Local relief (concave, conv     | /ex, none):                               | Undulating                                      | Slope (%): 0 to 1   |  |  |
| Subregion (LRR or MLRA): L   | RR L                  |  | Lat: 42.844554330               | 3 <b>Long:</b>                            | -74.5103716013                                  | Datum: WGS84        |  |  |
| Soil Map Unit Name: Fredon s   | ilt loam              |  |                                 |   | NWI classificatio                               | n:                  |  |  |
| Are climatic/hydrologic condition                                      | s on the site typical | for this time of ye                    | ar? Yes No                      | (If no                                    | , explain in Remarks.)                          |                     |  |  |
| Are Vegetation, Soil,  |                       | significantly dis                      |                                 |   | tances" present?                                | Yes No              |  |  |
| Are Vegetation, Soil,  | or Hydrology          | naturally probl                        | lematic? (If needed,            | explain an                                | y answers in Remarks                            | .)                  |  |  |
| SUMMARY OF FINDINGS – A  |                       |  | ng point locations, tran        | nsects, im                                | portant features,                               | etc.                |  |  |
| Hydrophytic Vegetation Present   |                       | No _ <b>_/</b> _                       |                                 |   |   |                     |  |  |
| Hydric Soil Present?   | Yes _                 | No <u>_</u>                            | Is the Sampled Area withi       | in a Wetlan                               | d? Ye   | s No⁄_              |  |  |
| Wetland Hydrology Present?   | Yes _                 | No _ <b>_</b>                          | If yes, optional Wetland S      | ite ID:                                   |   |                     |  |  |
|  |                       |  |                                 |   |   |                     |  |  |
| HYDROLOGY Wetland Hydrology Indicators: Primary Indicators (minimum of | one is required; ch   | eck all that apply)                    |                                 | Secondary                                 | y Indicators (minimum                           | n of two required)  |  |  |
| Surface Water (A1)   |                       | Water Stained Lea                      | 2) (OS (PO)                     | Surfac                                    | e Soil Cracks (B6)                              |                     |  |  |
| Surface Water (A1)<br>High Water Table (A2)                            |                       | Water-Stained Lea<br>Aquatic Fauna (B1 |                                 | Draina                                    | ige Patterns (B10)                              |                     |  |  |
| Saturation (A3)  |                       | Marl Deposits (B1                      |                                 | Moss Trim Lines (B16)                     |   |                     |  |  |
| Water Marks (B1)   |                       | Hydrogen Sulfide                       |                                 | Dry-Season Water Table (C2)               |   |                     |  |  |
| Sediment Deposits (B2)   |                       |  | neres on Living Roots (C3)      | Crayfish Burrows (C8)                     |   |                     |  |  |
| Drift Deposits (B3)  |                       | Presence of Redu                       | ced Iron (C4)                   | Saturation Visible on Aerial Imagery (C9) |   |                     |  |  |
| Algal Mat or Crust (B4)  |                       | Recent Iron Reduc                      | ction in Tilled Soils (C6)      |   | ed or Stressed Plants (<br>orphic Position (D2) | (וט                 |  |  |
| Iron Deposits (B5)   |                       | Thin Muck Surface                      |                                 |   | w Aquitard (D3)                                 |                     |  |  |
| Inundation Visible on Aerial I   |                       | Other (Explain in F                    | Remarks)                        |   | opographic Relief (D4                           | )                   |  |  |
| Sparsely Vegetated Concave   | Surface (B8)          |  |                                 |   | eutral Test (D5)                                | ,                   |  |  |
| Field Observations:  |                       |  |                                 |   |   |                     |  |  |
| Surface Water Present?   | Yes No _ <b>_</b>     | ∠ Depth                                | (inches):                       |   |   |                     |  |  |
| Water Table Present?   | Yes No _ <b>_</b>     | ∠ Depth                                | (inches):                       | Wetland F                                 | Hydrology Present?                              | Yes No _ <b>_</b> ✓ |  |  |
| Saturation Present?  | Yes No _ <b>_</b>     |  | (inches):                       | -   | -   |                     |  |  |
| (includes capillary fringe)  |                       | _                                      |                                 | -   |   |                     |  |  |
| Describe Recorded Data (stream   | gauge monitoring      | well aerial photos                     | s previous inspections) if a    | available:                                |   | ·                   |  |  |
| Describe Recorded Data (Stream   | r gauge, monitoring   | well, aeriai priotos                   | s, previous irispections), ir d | avallable.                                |   |                     |  |  |
| Remarks:   |                       |  |                                 |   |   |                     |  |  |
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| <u>Tree Stratum</u> (Plot size: <u>30 ft</u> ) |                 | Dominant    | Indicator | Dominance Test worksheet:                           |                 |                 |
|--|-----------------|-------------|-----------|---|-----------------|-----------------|
| <u>-11-ce Stratam</u> (1 10c 312c. <u></u>     | % Cover         | Species?    | Status    | Number of Dominant Species That                     | 0               | (A)             |
| 1. Solidago canadensis                         | 70              | Yes         | FACU      | Are OBL, FACW, or FAC:                              |                 |                 |
| 2. Pycnanthemum tenuifolium                    | 15              | No          | FAC       | Total Number of Dominant Species                    | 1               | (B)             |
| 3. <i>Centaurea jacea</i>                      | 10              | No          | FACU      | Across All Strata:                                  | -               |                 |
| 4  |                 |             |           | Percent of Dominant Species That                    | 0               | (A/B)           |
| 5  |                 |             |           | Are OBL, FACW, or FAC:  Prevalence Index worksheet: | -               |                 |
| 6.   |                 |             |           |   | N. de alaciente | D               |
| 7.   |                 |             |           | Total % Cover of:                                   | Multiply        | <u>ву:</u><br>0 |
|  | 95              | = Total Cov | er        | OBL species 0                                       | x 1 =           |                 |
| Sapling/Shrub Stratum (Plot size:15 ft)        |                 | _           |           | FACW species 0                                      | x 2 =           | 0               |
| 1.   |                 |             |           | FAC species 15                                      | x 3 =           | 45              |
| 2.   |                 |             |           | FACU species 80                                     | x 4 =           | 320             |
| 3.   |                 |             |           | - UPL species 0                                     | x 5 =           | 0               |
| 4.   |                 | •           |           | - Column Totals 95                                  | (A)             | 365 (B)         |
| 5.   |                 |             |           | Prevalence Index = B/A =                            | 3.8             |                 |
| -  |                 |             |           | Hydrophytic Vegetation Indicators:                  |                 |                 |
| 6  |                 |             |           | 1- Rapid Test for Hydrophytic                       | Vegetation      | า               |
| ··   |                 | = Total Cov | or        | 2 - Dominance Test is > 50%                         |                 |                 |
| Herb Stratum (Plot size: 5 ft )                |                 | _ TOTAL COV | ei        | 3 - Prevalence Index is $\leq 3.0^{1}$              |                 |                 |
| 1.   |                 |             |           | 4 - Morphological Adaptations                       |                 | supporting      |
| ·  |                 |             |           | data in Remarks or on a separate sl                 | neet)           |                 |
| 2  |                 |             |           | Problematic Hydrophytic Vege                        |                 | •               |
| 3  |                 |             |           | - Indicators of hydric soil and wetlan              | -               | gy must be      |
| 4  |                 |             |           | present, unless disturbed or proble                 | matic           |                 |
| 5  |                 |             |           | Definitions of Vegetation Strata:                   |                 |                 |
| 6  |                 |             |           | Tree – Woody plants 3 in. (7.6 cm) o                |                 | diameter at     |
| 7  |                 |             |           | breast height (DBH), regardless of h                | _               |                 |
| 8  |                 |             |           | Sapling/shrub – Woody plants less t                 |                 | DBH and         |
| 9  |                 |             |           | greater than or equal to 3.28 ft (1 m               |                 |                 |
| 10   |                 |             |           | Herb – All herbaceous (non-woody)                   |                 | gardless of     |
| 11   |                 |             |           | size, and woody plants less than 3.2                |                 | 20 % :          |
| 12   |                 |             |           | Woody vines – All woody vines grea height.          | iter than 3     | .28 IL IN       |
|  | 0               | = Total Cov | er        |   |                 |                 |
| Woody Vine Stratum (Plot size: 30 ft)          |                 |             |           | Hydrophytic Vegetation Present?                     | Yes I           | Vo <u>√</u>     |
| 1  |                 |             |           | _   |                 |                 |
| 2  |                 |             |           |   |                 |                 |
| 3.   |                 |             |           |   |                 |                 |
| 4.   |                 |             |           |   |                 |                 |
|  | 0               | = Total Cov | er        | -   |                 |                 |
| Remarks: (Include photo numbers here or on a s | onarato choot ) | -           |           |   |                 |                 |
| remarks. (include prioto numbers here or orras | eparate sneet.) |             |           |   |                 |                 |
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|               | ription: (Describe          | to the de |                  |          |                   | indicato         | r or confirm the a          | absence of in  | dicators.)                                  |
|---------------|-----------------------------|-----------|------------------|----------|-------------------|------------------|-----------------------------|----------------|---|
| Depth _       | Matrix                      |           | Redox            | Feat     | ures              |                  |                             |                |   |
| (inches)      | Color (moist)               | %         | Color (moist)    | %        | Type <sup>1</sup> | Loc <sup>2</sup> | Texture                     | <u> </u>       | Remarks                                     |
| 0 - 13        | 10YR 3/2                    | 100       |                  |          |                   |                  | Silt Loam                   | n              |   |
|               |                             | ·         |                  |          |                   |                  |                             |                |   |
|               |                             | ·         |                  | _        |                   |                  |                             |                |   |
|               |                             |           |                  | _        |                   |                  |                             |                |   |
|               |                             |           |                  | _        |                   |                  |                             |                |   |
|               |                             |           |                  | _        |                   |                  |                             |                |   |
|               |                             |           |                  | _        |                   |                  |                             |                |   |
|               |                             |           |                  | _        |                   |                  |                             |                |   |
|               |                             |           |                  | _        |                   |                  |                             |                |   |
|               |                             |           |                  | _        |                   |                  |                             |                |   |
|               |                             |           |                  | _        |                   |                  |                             |                |   |
|               |                             |           |                  |          |                   |                  |                             |                |   |
|               |                             |           |                  |          |                   |                  |                             |                |   |
| ¹Tvpe: C = C  | oncentration, D =           | Depletio  | n. RM = Reduced  | —<br>Mat | rix. MS =         | Masked           | Sand Grains. <sup>2</sup> L | Location: PL = | = Pore Lining, M = Matrix.                  |
| Hydric Soil I |                             | - ср.сс.о | .,               |          | ,                 | masitea          | 54.14 6.4.1.5.              |                | for Problematic Hydric Soils <sup>3</sup> : |
| Histosol      |                             |           | Polyvalue Bel    | ۱۸۷ S    | iurfaca (S        | (8) <b>(I DD</b> | D MI DA 1/QR)               |                | •   |
|               | ipedon (A2)                 |           | Polyvalue Bei    |          |                   |                  |                             |                | Muck (A10) (LRR K, L, MLRA 149B)            |
| Black Hi      | •                           |           | Loamy Mucky      |          |                   |                  |                             |                | Prairie Redox (A16) <b>(LRR K, L, R)</b>    |
|               | en Sulfide (A4)             |           | Loamy Gleyed     |          |                   | (LKK K,          | L)                          |                | lucky Peat or Peat (S3) (LRR K, L, R)       |
|               | d Layers (A5)               |           | Depleted Mat     |          |                   |                  |                             |                | urface (S7) <b>(LRR K, L)</b>               |
|               | d Below Dark Surfa          |           |                  |          |                   |                  |                             |                | lue Below Surface (S8) (LRR K, L)           |
|               | irk Surface (A12)           |           | Depleted Dar     |          |                   | ١                |                             | Thin D         | ark Surface (S9) <b>(LRR K, L)</b>          |
|               | lucky Mineral (S1)          |           | Redox Depres     |          |                   | ,                |                             | Iron-M         | langanese Masses (F12) (LRR K, L, R)        |
|               |                             |           | Redox Depre.     | 3101     | 13 (10)           |                  |                             | Piedm          | ont Floodplain Soils (F19) (MLRA 149B)      |
| -             | leyed Matrix (S4)           |           |                  |          |                   |                  |                             | Mesic          | Spodic (TA6) <b>(MLRA 144A, 145, 149B)</b>  |
| _             | edox (S5)                   |           |                  |          |                   |                  |                             | Red Pa         | arent Material (F21)                        |
|               | l Matrix (S6)               |           |                  |          |                   |                  |                             | Very Sl        | hallow Dark Surface (TF12)                  |
| Dark Su       | rface (S7) <b>(LRR R, M</b> | 1LRA 149  | 9B)              |          |                   |                  |                             | Other          | (Explain in Remarks)                        |
| 3Indicators   | of hydrophytic veg          | etation a | and wetland hydr | olog     | y must b          | e preser         | nt, unless disturbe         | ed or problei  | matic.                                      |
| -             | ayer (if observed):         |           |                  |          | ,                 | İ                | •                           | '              |   |
|               | Type:                       |           | None             |          |                   | Hydric           | Soil Present?               | Y              | es No <u>_</u>                              |
|               | • •                         |           | NOTIC            |          |                   | riyaric          | Son i resent.               | •              | CS NO <u></u>                               |
|               | Depth (inches):             |           |                  |          |                   |                  |                             | <del></del> -  |   |
| Remarks:      |                             |           |                  |          |                   |                  |                             |                |   |
| Digging rest  | riction due to rock         | S.        |                  |          |                   |                  |                             |                |   |
|               |                             |           |                  |          |                   |                  |                             |                |   |
|               |                             |           |                  |          |                   |                  |                             |                |   |
|               |                             |           |                  |          |                   |                  |                             |                |   |
|               |                             |           |                  |          |                   |                  |                             |                |   |
|               |                             |           |                  |          |                   |                  |                             |                |   |
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|               |                             |           |                  |          |                   |                  |                             |                |   |
|               |                             |           |                  |          |                   |                  |                             |                |   |
|               |                             |           |                  |          |                   |                  |                             |                |   |
|               |                             |           |                  |          |                   |                  |                             |                |   |
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|               |                             |           |                  |          |                   |                  |                             |                |   |
|               |                             |           |                  |          |                   |                  |                             |                |   |
|               |                             |           |                  |          |                   |                  |                             |                |   |
|               |                             |           |                  |          |                   |                  |                             |                |   |
|               |                             |           |                  |          |                   |                  |                             |                |   |
| ]             |                             |           |                  |          |                   |                  |                             |                |   |
|               |                             |           |                  |          |                   |                  |                             |                |   |



Photo of Sample Plot North



Photo of Sample Plot East



Photo of Sample Plot West



| Project/Site: Flat Creek Solar Pro  | oject                  | City/County: Can   | ajoharie, Montgomery Cou   | inty  | Sampling Date: 202  | 21-Sept-17              |  |
|---|------------------------|--|--|---|---|-------------------------|--|
| Applicant/Owner: SunEast  |                        |  | State: NY  |   | Sampling Point: W-NSD-29_UPL-3  |                         |  |
| Investigator(s): Nick DeJohn, A   | bi Light               |  | Section, Township,   | Range: NA   | 4   |                         |  |
| Landform (hillslope, terrace, etc.)   | ): Hilltop             |  | Local relief (concave, conv  | ex, none):_   | Undulating  | Slope (%): 1 to 3       |  |
| Subregion (LRR or MLRA): L  | .RR L                  |  | Lat: 42.841761438  | 2 Long:_  | -74.5161796734  | Datum: WGS84            |  |
| Soil Map Unit Name: Appletor  | ı silt loam, 3 to 8 pe | ercent slopes  |  |   | NWI classificatio   | n:                      |  |
| Are climatic/hydrologic condition   | s on the site typica   | al for this time of ye   | ar? Yes <u></u> ✓ No   | (If no,   | , explain in Remarks.)  |                         |  |
| Are Vegetation, Soil,   | or Hydrology _         | significantly dis  | sturbed? Are "Norm   | al Circumsta  | ances" present?   | Yes No _ <b>_/</b>      |  |
| Are Vegetation, Soil,   | or Hydrology _         | naturally probl  | ematic? (If needed,  | explain any   | y answers in Remarks  | .)                      |  |
| SUMMARY OF FINDINGS – A   | Attach site man        | chowing campli   | ng noint locations, tran   | nsects im   | nortant features  | etc                     |  |
| Hydrophytic Vegetation Present  | •                      | No   |  | isects, iiii  | portant reatures,   | eic.                    |  |
| Hydric Soil Present?  |                        | No <u>_</u>  | Is the Sampled Area withi  | in a Wetland  | d? Voi  | s No⁄_                  |  |
|   |                        |  | ì  |   | J: 16.  | SNO_ <u>/</u> _         |  |
| Wetland Hydrology Present?  Remarks: (Explain alternative pr  |                        | No   | If yes, optional Wetland S   | ite ID:   | <del></del>   |                         |  |
|   |                        |  |  |   |   |                         |  |
| Wetland Hydrology Indicators: Primary Indicators (minimum of  Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) Sediment Deposits (B2) Drift Deposits (B3) Algal Mat or Crust (B4) Iron Deposits (B5) Inundation Visible on Aerial Sparsely Vegetated Concave |                        | _ Water-Stained Lea<br>_ Aquatic Fauna (B1<br>_ Marl Deposits (B1<br>_ Hydrogen Sulfide<br>_ Oxidized Rhizosph<br>_ Presence of Redu | 3) 5) Odor (C1) neres on Living Roots (C3) ced Iron (C4) ction in Tilled Soils (C6) e (C7) | Surface Drainag Moss T Dry-Sea Crayfisi Saturat Stuntee Geomo Shallov Microto | v Indicators (minimum<br>e Soil Cracks (B6)<br>ge Patterns (B10)<br>Trim Lines (B16)<br>ason Water Table (C2)<br>th Burrows (C8)<br>tion Visible on Aerial I<br>d or Stressed Plants (I<br>orphic Position (D2)<br>w Aquitard (D3)<br>opographic Relief (D4 | )<br>magery (C9)<br>D1) |  |
| Field Observations  |                        |  |  | FAC-Ne  | eutral Test (D5)  |                         |  |
| Field Observations:   | Voc. N-                | / Donth  | (inches):  |   |   |                         |  |
| Surface Water Present?  | Yes No _               | ·  | (inches):  | -[  |   |                         |  |
| Water Table Present?  | Yes No _               |  | (inches):  | Wetland H   | lydrology Present?  | Yes No                  |  |
| Saturation Present?   | Yes No _               | <u>✓</u> Depth   | (inches):  | _   |   |                         |  |
| (includes capillary fringe)   |                        |  |  |   |   |                         |  |
| Describe Recorded Data (stream  | . 88-1                 | 8 · · · · · · · · · · · · · · · · · · ·  | ,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,  |   |   |                         |  |
|   |                        |  |  |   |   |                         |  |

| <u>Tree Stratum</u> (Plot size: <u>30 ft</u> ) |             | Dominant    |        | Dominance Test worksheet:                           |                          |                        |
|--|-------------|-------------|--------|---|--------------------------|------------------------|
| · — —  | % Cover     | Species?    | Status | Number of Dominant Species That                     | 1                        | (A)                    |
| 1  |             |             |        | Are OBL, FACW, or FAC:                              | -                        |                        |
| 2  |             |             |        | Total Number of Dominant Species Across All Strata: | 2                        | (B)                    |
| 3.   |             |             |        | Percent of Dominant Species That                    |                          |                        |
| 4  |             |             |        | - Are OBL, FACW, or FAC:                            | 50                       | (A/B)                  |
| 5  |             |             |        | Prevalence Index worksheet:                         |                          |                        |
| 6.   |             |             |        | - Total % Cover of:                                 | Multiply                 | D. a                   |
| 7.   |             |             |        | - OBL species 0                                     | <u>Multiply</u><br>x 1 = | <u><b>ъу.</b></u><br>О |
|  | 0           | = Total Cov | er     |   | -                        | 0                      |
| Sapling/Shrub Stratum (Plot size:15 ft)        |             | -           |        | ·   | x 2 =                    |                        |
| 1.   |             |             |        | FAC species 40                                      | x 3 =                    | 120                    |
| 2.   |             |             |        | FACU species 50                                     | x 4 =                    | 200                    |
| 3.   |             |             |        | - UPL species 0                                     | x 5 =                    | 0                      |
| 4.   |             |             |        | - Column Totals 90                                  | (A)                      | 320 (B)                |
| 5.   |             |             |        | Prevalence Index = B/A =                            | 3.6                      |                        |
|  |             |             |        | Hydrophytic Vegetation Indicators:                  |                          |                        |
| 6  |             |             |        | 1- Rapid Test for Hydrophytic                       | Vegetation               | 1                      |
| 7  | <del></del> |             |        | 2 - Dominance Test is > 50%                         |                          |                        |
|  | 0           | = Total Cov | er     | 3 - Prevalence Index is $\leq 3.0^1$                |                          |                        |
| Herb Stratum (Plot size: 5 ft )                |             |             |        | 4 - Morphological Adaptation                        | s¹ (Provide              | supporting             |
| 1. Pycnanthemum tenuifolium                    | 40          | Yes         | FAC    | data in Remarks or on a separate s                  |                          | 0                      |
| 2. Solidago canadensis                         | 25          | Yes         | FACU   | Problematic Hydrophytic Veg                         |                          | kplain)                |
| 3. Fragaria virginiana                         | 15          | No          | FACU   | - Indicators of hydric soil and wetla               |                          | •                      |
| 4. Galium mollugo                              | 10          | No          | FACU   | present, unless disturbed or proble                 | -                        |                        |
| 5  |             |             |        | Definitions of Vegetation Strata:                   |                          |                        |
| 6.   |             |             |        | Tree – Woody plants 3 in. (7.6 cm) o                | or more in               | diameter at            |
| 7.   |             |             |        | breast height (DBH), regardless of                  |                          |                        |
| 8.   |             |             |        | Sapling/shrub – Woody plants less                   | _                        | DBH and                |
| 9.   |             |             |        | greater than or equal to 3.28 ft (1 r               |                          |                        |
| 10   |             |             |        | Herb – All herbaceous (non-woody                    | ) plants, re             | gardless of            |
| 11   |             |             |        | size, and woody plants less than 3.                 | 28 ft tall.              |                        |
|  |             |             |        | Woody vines – All woody vines grea                  | ater than 3              | .28 ft in              |
| 12   | 90          | = Total Cov | or     | height.   |                          |                        |
| Wash Wine Chush um (Blat sine) 20 ft           |             | - TOTAL COV | ei     | Hydrophytic Vegetation Present?                     | Yes N                    | No 🗸                   |
| Woody Vine Stratum (Plot size: 30 ft )         |             |             |        | ,   |                          |                        |
| 1  |             |             |        | -   |                          |                        |
| 2  |             |             |        | -   |                          |                        |
|  |             |             |        | -   |                          |                        |
| 3  |             |             |        |   |                          |                        |
| 3.<br>4.                                       |             | = Total Cov |        | -   |                          |                        |

| Profile Desc | cription: (Describe  | to the de | epth needed to do | ocun   | nent the i        | ndicator         | or confirm the a            | bsence of indicator   | s.)                                    |  |  |
|--------------|----------------------|-----------|-------------------|--------|-------------------|------------------|-----------------------------|---|--|--|--|
| Depth _      | Matrix               |           | Redox             | Feat   | tures             |                  |                             |   |  |  |  |
| (inches)     | Color (moist)        | %         | Color (moist)     | %      | Type <sup>1</sup> | Loc <sup>2</sup> | Texture                     |   | Remarks                                |  |  |
| 0 - 13       | 10YR 3/2             | 100       |                   |        |                   |                  | Silt Loam                   |   |  |  |  |
| 13 - 20      | 10YR 4/3             | 95        | 10YR 5/6          | 5      | C                 | M                | Silty Cla                   | ay Loam   |  |  |  |
|              |                      |           |                   | _      |                   |                  |                             |   |  |  |  |
|              |                      |           |                   | _      |                   |                  |                             |   |  |  |  |
|              |                      |           |                   | _      |                   |                  |                             |   |  |  |  |
|              |                      |           |                   | _      |                   |                  |                             |   |  |  |  |
|              |                      |           |                   | _      |                   |                  |                             |   |  |  |  |
|              |                      |           |                   | _      |                   |                  |                             |   |  |  |  |
|              |                      |           |                   | _      |                   |                  |                             |   |  |  |  |
|              |                      |           |                   | _      |                   |                  |                             |   |  |  |  |
|              |                      |           |                   | _      |                   |                  |                             |   |  |  |  |
|              |                      |           |                   | _      |                   |                  |                             |   |  |  |  |
|              |                      |           |                   | _      |                   |                  |                             |   |  |  |  |
| ¹Type: C = C | Concentration, D =   | Depletio  | n, RM = Reduced   | Mat    | rix, MS =         | Masked           | Sand Grains. <sup>2</sup> L | ocation: PL = Pore L  | ining, M = Matrix.                     |  |  |
| Hydric Soil  | Indicators:          |           |                   |        |                   |                  |                             | Indicators for Pro  | oblematic Hydric Soils³:               |  |  |
| Histosol     | (A1)                 |           | Polyvalue Bel     | ow S   | urface (S         | 8) <b>(LRR I</b> | R, MLRA 149B)               |   | 10) <b>(LRR K, L, MLRA 149B)</b>       |  |  |
| Histic Ep    | oipedon (A2)         |           | Thin Dark Sur     | face   | (S9) (LRF         | R, MLR           | A 149B)                     |   | Redox (A16) (LRR K, L, R)              |  |  |
| Black Hi     | •                    |           | Loamy Mucky       |        |                   |                  |                             | <del></del>   | redox (ATO) (LRR R, L, R)              |  |  |
| Hydroge      | en Sulfide (A4)      |           | Loamy Gleyed      | d Ma   | trix (F2)         |                  |                             |   |  |  |  |
| Stratifie    | d Layers (A5)        |           | Depleted Mat      | rix (l | F3)               |                  |                             | Dark Surface (S7) (LRR K, L)<br>Polyvalue Below Surface (S8) (LRR K, L) |  |  |  |
| Deplete      | d Below Dark Surfa   | ace (A11) | ) Redox Dark S    | urfa   | ce (F6)           |                  |                             |   | face (S9) <b>(LRR K, L)</b>            |  |  |
| Thick Da     | ark Surface (A12)    |           | Depleted Dar      | k Su   | rface (F7)        | )                |                             |   | ese Masses (F12) (LRR K, L, R)         |  |  |
| Sandy M      | lucky Mineral (S1)   |           | Redox Depre       | ssior  | ns (F8)           |                  |                             | _   | odplain Soils (F19) <b>(MLRA 149B)</b> |  |  |
| Sandy G      | Gleyed Matrix (S4)   |           |                   |        |                   |                  |                             |   | (TA6) (MLRA 144A, 145, 149B)           |  |  |
| Sandy R      | tedox (S5)           |           |                   |        |                   |                  |                             |   |  |  |  |
| Stripped     | d Matrix (S6)        |           |                   |        |                   |                  |                             | Red Parent Material (F21)<br>Very Shallow Dark Surface (TF12)           |  |  |  |
| Dark Su      | rface (S7) (LRR R, M | /ILRA 149 | 9B)               |        |                   |                  |                             | Other (Explain  |  |  |  |
|              | 61 1 1 1             |           |                   |        |                   |                  |                             | •   | Till Kelliarks)                        |  |  |
| -            | of hydrophytic veg   |           | and wetland hydr  | olog   | y must b          | e presen         | t, unless disturbe          | ed or problematic.  |  |  |  |
|              | Layer (if observed): |           | News              |        |                   | L books a        | C-11 D                      | ,   | Was No. 1                              |  |  |
|              | Type:                |           | None              |        |                   | Hyaric           | Soil Present?               |   | Yes No⁄_                               |  |  |
|              | Depth (inches):      |           |                   |        |                   |                  |                             |   |  |  |  |
| Remarks:     |                      |           |                   |        |                   |                  |                             |   |  |  |  |
|              |                      |           |                   |        |                   |                  |                             |   |  |  |  |
|              |                      |           |                   |        |                   |                  |                             |   |  |  |  |
|              |                      |           |                   |        |                   |                  |                             |   |  |  |  |
|              |                      |           |                   |        |                   |                  |                             |   |  |  |  |
|              |                      |           |                   |        |                   |                  |                             |   |  |  |  |
|              |                      |           |                   |        |                   |                  |                             |   |  |  |  |
|              |                      |           |                   |        |                   |                  |                             |   |  |  |  |
|              |                      |           |                   |        |                   |                  |                             |   |  |  |  |
|              |                      |           |                   |        |                   |                  |                             |   |  |  |  |
|              |                      |           |                   |        |                   |                  |                             |   |  |  |  |
|              |                      |           |                   |        |                   |                  |                             |   |  |  |  |
|              |                      |           |                   |        |                   |                  |                             |   |  |  |  |
|              |                      |           |                   |        |                   |                  |                             |   |  |  |  |
|              |                      |           |                   |        |                   |                  |                             |   |  |  |  |
|              |                      |           |                   |        |                   |                  |                             |   |  |  |  |
|              |                      |           |                   |        |                   |                  |                             |   |  |  |  |
|              |                      |           |                   |        |                   |                  |                             |   |  |  |  |
|              |                      |           |                   |        |                   |                  |                             |   |  |  |  |
|              |                      |           |                   |        |                   |                  |                             |   |  |  |  |
|              |                      |           |                   |        |                   |                  |                             |   |  |  |  |
|              |                      |           |                   |        |                   |                  |                             |   |  |  |  |



Photo of Sample Plot North



Photo of Sample Plot South



Photo of Sample Plot West



| Project/Site: Flat Creek Solar Pro  | ject               | City/County: Car         | najoharie, Montgomery Cou    | Sampling Date: 202                         | ling Date: 2021-Sept-07   |                  |  |  |
|-------------------------------------|--------------------|--------------------------|------------------------------|--|---------------------------|------------------|--|--|
| Applicant/Owner: SunEast            |                    |                          | State: NY                    |  | Sampling Point: W-RE      | OS-01_PEM-1      |  |  |
| Investigator(s): Ryan Snow, Abi     | Light              |                          | Section, Township, Range: NA |  |                           |                  |  |  |
| Landform (hillslope, terrace, etc.) | Depressio          | n                        | Local relief (concave, conv  | Concave                                    | Slope (%): 1 to 3         |                  |  |  |
| Subregion (LRR or MLRA):            | RR L               |                          | Lat: 42.833694781            | 9 Long:                                    | -74.5106136145            | Datum: WGS84     |  |  |
| Soil Map Unit Name: Madalin         | Silty Clay Loam,   | 0 to 3 slopes            |                              |  | NWI classificatio         | n: None          |  |  |
| Are climatic/hydrologic condition   | s on the site typi | ical for this time of ye | ear? Yes _✓_ No              | (If no                                     | o, explain in Remarks.)   |                  |  |  |
| Are Vegetation <u></u> ✓, Soil,     | or Hydrology       | / significantly d        | isturbed? Are "Norm          | al Circumst                                | tances" present?          | Yes No           |  |  |
| Are Vegetation, Soil,               | or Hydrology       | / naturally prob         | lematic? (If needed,         | explain an                                 | y answers in Remarks.     | .)               |  |  |
|                                     |                    |                          |                              |  |                           |                  |  |  |
| SUMMARY OF FINDINGS – A             | ttach site ma      | p showing sampli         | ing point locations, trai    | nsects, im                                 | portant features,         | etc.             |  |  |
| Hydrophytic Vegetation Present?     | Yes                | s_ <b>_</b> No           |                              |  |                           |                  |  |  |
| Hydric Soil Present?                | Yes                | s _ <b>✓</b> _ No        | Is the Sampled Area withi    | in a Wetlan                                | d? Yes                    | No               |  |  |
| Wetland Hydrology Present?          |                    | No                       | If yes, optional Wetland S   |  |                           | DS-01            |  |  |
| Remarks: (Explain alternative pro   |                    |                          |                              | ite ib.                                    |                           |                  |  |  |
| · ·                                 |                    |                          |                              |  |                           |                  |  |  |
| Covertype is PEM. Area is wetlan    | d, all three wetla | and parameters are [     | oresent. Circumstances are   | not norma                                  | il due to agricultural ac | ctivities.       |  |  |
|                                     |                    |                          |                              |  |                           |                  |  |  |
|                                     |                    |                          |                              |  |                           |                  |  |  |
|                                     |                    |                          |                              |  |                           |                  |  |  |
|                                     |                    |                          |                              |  |                           |                  |  |  |
|                                     |                    |                          |                              |  |                           |                  |  |  |
|                                     |                    |                          |                              |  |                           |                  |  |  |
|                                     |                    |                          |                              |  |                           |                  |  |  |
|                                     |                    |                          |                              |  |                           |                  |  |  |
| LIVEROLOGY                          |                    |                          |                              |  |                           |                  |  |  |
| HYDROLOGY                           |                    |                          |                              |  |                           |                  |  |  |
| Wetland Hydrology Indicators:       |                    |                          |                              |  |                           |                  |  |  |
| Primary Indicators (minimum of      | one is required;   | check all that apply)    |                              | Secondan                                   | y Indicators (minimum     | of two required) |  |  |
|                                     |                    |                          |                              | -  | e Soil Cracks (B6)        |                  |  |  |
| Surface Water (A1)                  |                    | Water-Stained Le         |                              |  | age Patterns (B10)        |                  |  |  |
| High Water Table (A2)               |                    | Aquatic Fauna (B         |                              |  | Trim Lines (B16)          |                  |  |  |
| Saturation (A3)                     |                    | Marl Deposits (B         |                              | eason Water Table (C2)                     |                           |                  |  |  |
| Water Marks (B1)                    |                    | Hydrogen Sulfide         |                              | -  | sh Burrows (C8)           | vs (C8)          |  |  |
| Sediment Deposits (B2)              |                    |                          | heres on Living Roots (C3)   | magery (C9)                                |                           |                  |  |  |
| Drift Deposits (B3)                 |                    | Presence of Redu         |                              | D1)  |                           |                  |  |  |
| Algal Mat or Crust (B4)             |                    | <del></del>              | iction in Tilled Soils (C6)  |  | orphic Position (D2)      | •                |  |  |
| Iron Deposits (B5)                  | (57)               | Thin Muck Surfac         |                              |  |                           |                  |  |  |
| Inundation Visible on Aerial I      |                    | Other (Explain in        | Remarks)                     | w Aquitard (D3)<br>copographic Relief (D4) | )                         |                  |  |  |
| Sparsely Vegetated Concave          | Surface (B8)       |                          |                              |  | eutral Test (D5)          |                  |  |  |
| Field Observations:                 |                    |                          |                              |  |                           |                  |  |  |
| Surface Water Present?              | Yes No             | Depth Depth              | (inches):                    | _  |                           |                  |  |  |
| Water Table Present?                | Yes No             | Depth Depth              | (inches):                    | Wetland H                                  | Hydrology Present?        | Yes No           |  |  |
| Saturation Present?                 | Yes No             | Depth Depth              | (inches):                    | _  |                           |                  |  |  |
| (includes capillary fringe)         |                    |                          |                              |  |                           |                  |  |  |
| Describe Recorded Data (stream      | gauge, monitor     | ing well, aerial photo   | s, previous inspections), if | available:                                 |                           |                  |  |  |
| ·                                   |                    |                          |                              |  |                           |                  |  |  |
|                                     |                    |                          |                              |  |                           |                  |  |  |
|                                     |                    |                          |                              |  |                           |                  |  |  |
| Remarks:                            |                    |                          |                              |  |                           |                  |  |  |
| The criterion for wetland hydrolo   | ogy is met. A pos  | sitive indication of we  | etland hydrology was obser   | ved (at leas                               | st two secondary indica   | ators).          |  |  |
|                                     |                    |                          |                              |  |                           |                  |  |  |
|                                     |                    |                          |                              |  |                           |                  |  |  |
|                                     |                    |                          |                              |  |                           |                  |  |  |
|                                     |                    |                          |                              |  |                           |                  |  |  |
|                                     |                    |                          |                              |  |                           |                  |  |  |
|                                     |                    |                          |                              |  |                           |                  |  |  |
| 1                                   |                    |                          |                              |  |                           |                  |  |  |

| Tree Stratum (Diet size) 20 ft                 | Absolute | Dominant    | Indicator | Dominance Test works                          | heet:           |              |                    |
|--|----------|-------------|-----------|---|-----------------|--------------|--------------------|
| <u>Tree Stratum</u> (Plot size: <u>30 ft</u> ) | % Cover  | Species?    | Status    | Number of Dominant S                          | Species That    | 2            | (A)                |
| 1  |          |             |           | Are OBL, FACW, or FAC                         |                 |              |                    |
| 2  |          |             |           | Total Number of Domi                          | nant Species    | 2            | (B)                |
| 3  |          |             |           | Across All Strata:                            |                 |              |                    |
| 4  |          |             |           | Percent of Dominant S - Are OBL, FACW, or FAC | •               | 100          | (A/B)              |
| 5  |          |             |           | Prevalence Index work                         | sheet:          |              |                    |
| 6  |          |             |           | Total % Cover                                 | of:             | Multiply     | By:                |
| 7  |          |             |           | - OBL species                                 | 45              | x 1 =        | - <b>5</b> -<br>45 |
|  | 0        | = Total Cov | er        | FACW species                                  | 55              | x 2 =        | 110                |
| Sapling/Shrub Stratum (Plot size: 15 ft )      |          |             |           | FAC species                                   | 0               | x 3 =        | 0                  |
| 1  |          |             |           | FACU species                                  | 0               | x 4 =        | 0                  |
| 2  |          |             |           | UPL species                                   | 0               | x 5 =        | 0                  |
| 3  |          |             |           | Column Totals                                 | 100             | (A)          | 155 (B)            |
| 4  |          |             |           | Prevalence Ir                                 | ndex = B/A =    | 1.6          |                    |
| 5  |          |             |           | Hydrophytic Vegetation                        |                 |              | ·                  |
| 6  |          |             |           | 1- Rapid Test for I                           |                 | /egetation   | 1                  |
| 7  |          |             |           | ✓ 2 - Dominance Te                            |                 | egetation    |                    |
|  | 0        | = Total Cov | er        | ✓ 3 - Prevalence Inc                          |                 |              |                    |
| <u>Herb Stratum</u> (Plot size: <u>5 ft</u> )  |          |             |           | 4 - Morphological                             |                 | (Provide     | sunnorting         |
| 1. <i>Phalaris arundinacea</i>                 | 50       | Yes         | FACW      | data in Remarks or on                         | •               | -            | supporting.        |
| 2. Carex venusta                               | 30       | Yes         | OBL       | Problematic Hydr                              |                 | -            | kplain)            |
| 3. Juncus effusus                              | 10       | No          | OBL       | Indicators of hydric so                       |                 |              | •                  |
| 4. <i>Persicaria careyi</i>                    | 5        | No          | FACW      | present, unless disturb                       |                 | -            |                    |
| 5. <i>Eleocharis obtusa</i>                    | 5        | No          | OBL       | Definitions of Vegetation                     | on Strata:      |              |                    |
| 6  |          |             |           | Tree – Woody plants 3                         | in. (7.6 cm) or | more in      | diameter at        |
| 7  |          |             |           | breast height (DBH), re                       | gardless of h   | eight.       |                    |
| 8  |          |             |           | Sapling/shrub - Woody                         | •               |              | DBH and            |
| 9  |          |             |           | greater than or equal t                       | o 3.28 ft (1 m  | ) tall.      |                    |
| 10   |          |             |           | Herb – All herbaceous                         |                 | •            | gardless of        |
| 11   |          |             |           | size, and woody plants                        |                 |              |                    |
| 12.  |          |             |           | Woody vines – All wood                        | dy vines great  | ter than 3   | .28 ft in          |
|  | 100      | = Total Cov | er        | height.                                       |                 |              |                    |
| Woody Vine Stratum (Plot size: 30 ft )         |          | -           |           | Hydrophytic Vegetation                        | on Present? \   | ∕es <u> </u> | No                 |
| 1.   |          |             |           |   |                 |              |                    |
| 2.   |          |             |           | -   |                 |              |                    |
| 3.   |          |             |           | -   |                 |              |                    |
| 4.   |          |             |           | =   |                 |              |                    |
| · -  |          | = Total Cov | er        | -   |                 |              |                    |
|  |          |             |           |   |                 |              |                    |

#### Remarks: (Include photo numbers here or on a separate sheet.)

Active agricultural field. A positive indication of hydrophytic vegetation was observed (>50% of dominant species indexed as OBL, FACW, or FAC). A positive indication of hydrophytic vegetation was observed (Prevalence Index is  $\leq$  3.00). A positive indication of hydrophytic vegetation was observed (Rapid Test for Hydrophytic Vegetation).

|               | •                        | to the   | •                 |          |           | indicato         | r or confirm the al          | bsence of indicators.)  |
|---------------|--------------------------|----------|-------------------|----------|-----------|------------------|------------------------------|---|
| Depth _       | Matrix                   |          |                   | x Fea    |           | 12               | T                            | D   |
| (inches)      | Color (moist)            | <u>%</u> | Color (moist)     | <u>%</u> | Type¹     | Loc <sup>2</sup> | Texture                      |   |
| 0 - 4         | 10YR 3/2                 | 60       | 2.5YR 3/4         | 40       | C         | M/PL             | Clay Loan                    | <u> </u>  |
| 4 - 20        | 10YR 4/1                 | 70       | 10YR 4/4          | 30       | C         | M/PL             | Clay                         |   |
|               |                          |          |                   | _        |           |                  |                              |   |
|               |                          |          |                   |          |           |                  |                              |   |
|               |                          |          |                   |          |           |                  |                              |   |
|               |                          |          |                   |          |           |                  |                              |   |
|               |                          |          |                   |          |           |                  |                              |   |
|               |                          |          |                   |          |           |                  |                              |   |
|               |                          |          |                   |          |           |                  |                              |   |
|               |                          |          |                   |          |           |                  |                              |   |
| -             |                          |          |                   |          |           |                  |                              |   |
| -             |                          |          |                   |          |           |                  |                              |   |
| ¹Type: C = C  | Concentration, D =       | Deple    | tion, RM = Reduce | ed Ma    | trix, MS  | = Masked         | Sand Grains. <sup>2</sup> Lo | ocation: PL = Pore Lining, M = Matrix.                                    |
| Hydric Soil   |                          |          | ,                 |          | <u> </u>  |                  |                              | Indicators for Problematic Hydric Soils <sup>3</sup> :                    |
| Histosol      |                          |          | Polyvalue E       | Below    | Surface ( | (S8) <b>(LRR</b> | R, MLRA 149B)                | ·   |
|               | oipedon (A2)             |          | Thin Dark S       |          |           |                  |                              | 2 cm Muck (A10) (LRR K, L, MLRA 149B)                                     |
| Black Hi      | •                        |          | Loamy Mud         |          |           |                  |                              | Coast Prairie Redox (A16) (LRR K, L, R)                                   |
|               | en Sulfide (A4)          |          | Loamy Gley        |          |           |                  | •                            | 5 cm Mucky Peat or Peat (S3) (LRR K, L, R)                                |
|               | d Layers (A5)            |          | Depleted №        |          |           |                  |                              | Dark Surface (S7) (LRR K, L) Polyvalue Below Surface (S8) (LRR K, L)      |
| Deplete       | d Below Dark Surf        | ace (A   | 11) Redox Dark    | c Surf   | ace (F6)  |                  |                              | Polyvalue Below Surface (56) (LRR K, L) Thin Dark Surface (S9) (LRR K, L) |
| Thick Da      | ark Surface (A12)        |          | Depleted D        | ark S    | urface (F | 7)               |                              | Iron-Manganese Masses (F12) (LRR K, L, R)                                 |
| Sandy M       | lucky Mineral (S1)       |          | Redox Dep         | ressic   | ns (F8)   |                  |                              | Piedmont Floodplain Soils (F19) (MLRA 149B)                               |
| Sandy G       | Gleyed Matrix (S4)       |          |                   |          |           |                  |                              | •   |
| Sandy R       | tedox (S5)               |          |                   |          |           |                  |                              | Mesic Spodic (TA6) (MLRA 144A, 145, 149B)<br>Red Parent Material (F21)    |
| Stripped      | d Matrix (S6)            |          |                   |          |           |                  |                              |   |
| Dark Su       | rface (S7) (LRR R, I     | MLRA 1   | 49B)              |          |           |                  |                              | Very Shallow Dark Surface (TF12) Other (Explain in Remarks)               |
|               |                          |          |                   | drala    | m, must   | ha nracar        | at uplace dicturba           | •   |
| -             | of hydrophytic veg       |          | n and welland ny  | urolo    | gy must   | De preser        | it, uriless disturbe         | ed of problematic.  |
|               | _ayer (if observed)<br>_ | :        |                   |          |           | l                |                              |   |
|               | Type:                    |          | None              |          |           | Hydric S         | Soil Present?                | Yes No  |
|               | Depth (inches):          |          |                   |          |           |                  |                              |   |
| Remarks:      |                          |          |                   |          |           |                  |                              |   |
| A positive ir | ndication of hydric      | soil w   | as observed. The  | criter   | ion for h | ydric soil       | is met.                      |   |
|               |                          |          |                   |          |           |                  |                              |   |
|               |                          |          |                   |          |           |                  |                              |   |
|               |                          |          |                   |          |           |                  |                              |   |
|               |                          |          |                   |          |           |                  |                              |   |
|               |                          |          |                   |          |           |                  |                              |   |
|               |                          |          |                   |          |           |                  |                              |   |
|               |                          |          |                   |          |           |                  |                              |   |
|               |                          |          |                   |          |           |                  |                              |   |
|               |                          |          |                   |          |           |                  |                              |   |
|               |                          |          |                   |          |           |                  |                              |   |
|               |                          |          |                   |          |           |                  |                              |   |
|               |                          |          |                   |          |           |                  |                              |   |
|               |                          |          |                   |          |           |                  |                              |   |
|               |                          |          |                   |          |           |                  |                              |   |
|               |                          |          |                   |          |           |                  |                              |   |
|               |                          |          |                   |          |           |                  |                              |   |
|               |                          |          |                   |          |           |                  |                              |   |
|               |                          |          |                   |          |           |                  |                              |   |
|               |                          |          |                   |          |           |                  |                              |   |

Vegetation Photos





Photo of Sample Plot North



Photo of Sample Plot East



Photo of Sample Plot South



Photo of Sample Plot West

