

APPENDIX H
Jurisdictional Delineation Forms

WETLAND DETERMINATION DATA FORM - Arid West Region

Project/Site: Campo Wind City/County: Campo/San Diego Sampling Date: 7/12/18 & 9/25/18
 Applicant/Owner: Various State: CA Sampling Point: DS 1a
 Investigator(s): L. Mobley, C. Amoaku, P. Schuyler Section, Township, Range: _____
 Landform (hillslope, terrace, etc.): hillslope Local relief (concave, convex, none): None Slope (%): 5%
 Subregion (LRR): C - Mediterranean California Lat: _____ Long: _____ Datum: _____
 Soil Map Unit Name: _____ NWI classification: _____

Are climatic / hydrologic conditions on the site typical for this time of year? Yes No (If no, explain in Remarks.)
 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 <input checked="" type="radio"/> No <input type="radio"/> Hydric Soil Present? Yes <input checked="" type="radio"/> No <input type="radio"/> Wetland Hydrology Present? Yes <input checked="" type="radio"/> No <input type="radio"/> | Is the Sampled Area within a Wetland? Yes <input checked="" type="radio"/> No <input type="radio"/> |
| Remarks: Seep on hillslope approximately 20'x20' in size. Surrounding area is upland. | |

VEGETATION

| Tree Stratum (Use scientific names.) | Absolute % Cover | Dominant Species? | Indicator Status | |
|--|------------------|---------------------------------|------------------|--|
| 1. _____ | | | | |
| 2. _____ | | | | |
| 3. _____ | | | | |
| 4. _____ | | | | |
| Total Cover: _____ % | | | | |
| Sapling/Shrub Stratum | | | | |
| 1. <i>Quercus ×acutidens</i> | 10 | Yes | Not Listed | |
| 2. <i>Arctostaphylos pungens</i> | 5 | Yes | Not Listed | |
| 3. <i>Ceanothus leucodermis</i> | 5 | Yes | Not Listed | |
| 4. <i>Prunus ilicifolia</i> | 5 | Yes | Not Listed | |
| 5. <i>Eriogonum fasciculatum var. polifolium</i> | 5 | Yes | Not Listed | |
| Total Cover: 30 % | | | | |
| Herb Stratum | | | | |
| 1. <i>Anemopsis californica</i> | 30 | Yes | OBL | |
| 2. <i>Juncus mexicanus</i> | 20 | Yes | FACW | |
| 3. <i>Urtica dioica</i> | 10 | No | FAC | |
| 4. <i>Juncus acutus</i> | 5 | No | FACW | |
| 5. <i>Heliotropium curassavicum</i> | 5 | No | FACU | |
| 6. <i>Artemisia dracunculus</i> | 1 | No | Not Listed | |
| 7. _____ | | | | |
| 8. _____ | | | | |
| Total Cover: 71 % | | | | |
| Woody Vine Stratum | | | | |
| 1. _____ | | | | |
| 2. _____ | | | | |
| Total Cover: _____ % | | | | |
| % Bare Ground in Herb Stratum _____ % | | % Cover of Biotic Crust _____ % | | |

Dominance Test worksheet:

Number of Dominant Species That Are OBL, FACW, or FAC: 2 (A)

Total Number of Dominant Species Across All Strata: 7 (B)

Percent of Dominant Species That Are OBL, FACW, or FAC: 28.6 % (A/B)

Prevalence Index worksheet:

| | | | | |
|--------------------------|-------------------|-------|----------------|--|
| | Total % Cover of: | | Multiply by: | |
| OBL species | <u>30</u> | x 1 = | <u>30</u> | |
| FACW species | <u>25</u> | x 2 = | <u>50</u> | |
| FAC species | <u>10</u> | x 3 = | <u>30</u> | |
| FACU species | <u>5</u> | x 4 = | <u>20</u> | |
| UPL species | <u>31</u> | x 5 = | <u>155</u> | |
| Column Totals: | <u>101</u> (A) | | <u>285</u> (B) | |
| Prevalence Index = B/A = | | | <u>2.82</u> | |

Hydrophytic Vegetation Indicators:

Dominance Test is >50%

Prevalence Index is ≤3.0¹

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.

Hydrophytic Vegetation Present? Yes No

Remarks:

SOIL

Sampling Point: DS 1a

| Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.) | | | | | | | | |
|---|---------------|-----|----------------|----|-------------------|------------------|----------------------|---------|
| Depth (inches) | Matrix | | Redox Features | | | | Texture ³ | Remarks |
| | Color (moist) | % | Color (moist) | % | Type ¹ | Loc ² | | |
| 0-2 | 10YR 2/1 | 100 | | | | | sandy clay loam | |
| 2-16 | 7.5YR 3/1 | 90 | 7.5YR 4/6 | 10 | C | M | sandy loam | |
| | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |

¹Type: C=Concentration, D=Depletion, RM=Reduced Matrix. ²Location: PL=Pore Lining, RC=Root Channel, M=Matrix.
³Soil Textures: Clay, Silty Clay, Sandy Clay, Loam, Sandy Clay Loam, Sandy Loam, Clay Loam, Silty Clay Loam, Silt Loam, Silt, Loamy Sand, Sand.

| | | |
|--|--|--|
| <p>Hydric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.)</p> <input type="checkbox"/> Histosol (A1) <input type="checkbox"/> Histic Epipedon (A2) <input type="checkbox"/> Black Histic (A3) <input type="checkbox"/> Hydrogen Sulfide (A4) <input type="checkbox"/> Stratified Layers (A5) (LRR C) <input type="checkbox"/> 1 cm Muck (A9) (LRR D) <input type="checkbox"/> Depleted Below Dark Surface (A11) <input type="checkbox"/> Thick Dark Surface (A12) <input type="checkbox"/> Sandy Mucky Mineral (S1) <input type="checkbox"/> Sandy Gleyed Matrix (S4) | <input type="checkbox"/> Sandy Redox (S5) <input type="checkbox"/> Stripped Matrix (S6) <input type="checkbox"/> Loamy Mucky Mineral (F1) <input type="checkbox"/> Loamy Gleyed Matrix (F2) <input type="checkbox"/> Depleted Matrix (F3) <input checked="" type="checkbox"/> Redox Dark Surface (F6) <input type="checkbox"/> Depleted Dark Surface (F7) <input type="checkbox"/> Redox Depressions (F8) <input type="checkbox"/> Vernal Pools (F9) | <p>Indicators for Problematic Hydric Soils:⁴</p> <input type="checkbox"/> 1 cm Muck (A9) (LRR C) <input type="checkbox"/> 2 cm Muck (A10) (LRR B) <input type="checkbox"/> Reduced Vertic (F18) <input type="checkbox"/> Red Parent Material (TF2) <input type="checkbox"/> Other (Explain in Remarks) |
|--|--|--|

⁴Indicators of hydrophytic vegetation and wetland hydrology must be present.

| | |
|--|--|
| <p>Restrictive Layer (if present):</p> Type: _____ Depth (inches): _____ Remarks: _____ | <p>Hydric Soil Present? Yes <input checked="" type="radio"/> No <input type="radio"/></p> |
|--|--|

HYDROLOGY

| | | |
|---|---|---|
| <p>Wetland Hydrology Indicators:</p> <p>Primary Indicators (any one indicator is sufficient)</p> <input checked="" type="checkbox"/> Surface Water (A1) <input type="checkbox"/> High Water Table (A2) <input checked="" type="checkbox"/> Saturation (A3) <input type="checkbox"/> Water Marks (B1) (Nonriverine) <input type="checkbox"/> Sediment Deposits (B2) (Nonriverine) <input type="checkbox"/> Drift Deposits (B3) (Nonriverine) <input type="checkbox"/> Surface Soil Cracks (B6) <input type="checkbox"/> Inundation Visible on Aerial Imagery (B7) <input type="checkbox"/> Water-Stained Leaves (B9) | <input type="checkbox"/> Salt Crust (B11) <input type="checkbox"/> Biotic Crust (B12) <input type="checkbox"/> Aquatic Invertebrates (B13) <input type="checkbox"/> Hydrogen Sulfide Odor (C1) <input type="checkbox"/> Oxidized Rhizospheres along Living Roots (C3) <input type="checkbox"/> Presence of Reduced Iron (C4) <input type="checkbox"/> Recent Iron Reduction in Plowed Soils (C6) <input type="checkbox"/> Other (Explain in Remarks) | <p><u>Secondary Indicators (2 or more required)</u></p> <input type="checkbox"/> Water Marks (B1) (Riverine) <input type="checkbox"/> Sediment Deposits (B2) (Riverine) <input type="checkbox"/> Drift Deposits (B3) (Riverine) <input type="checkbox"/> Drainage Patterns (B10) <input type="checkbox"/> Dry-Season Water Table (C2) <input type="checkbox"/> Thin Muck Surface (C7) <input type="checkbox"/> Crayfish Burrows (C8) <input type="checkbox"/> Saturation Visible on Aerial Imagery (C9) <input type="checkbox"/> Shallow Aquitard (D3) <input type="checkbox"/> FAC-Neutral Test (D5) |
|---|---|---|

| | |
|--|--|
| <p>Field Observations:</p> Surface Water Present? Yes <input checked="" type="radio"/> No <input type="radio"/> Depth (inches): <u>1"</u> Water Table Present? Yes <input checked="" type="radio"/> No <input type="radio"/> Depth (inches): _____ Saturation Present? (includes capillary fringe) Yes <input checked="" type="radio"/> No <input type="radio"/> Depth (inches): _____ | <p>Wetland Hydrology Present? Yes <input checked="" type="radio"/> No <input type="radio"/></p> |
|--|--|

Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:

Remarks:

WETLAND DETERMINATION DATA FORM - Arid West Region

Project/Site: Campo Wind City/County: Campo/San Diego Sampling Date: 9/25/18
 Applicant/Owner: Various State: CA Sampling Point: DS 1b
 Investigator(s): Callie Amoaku, Patricia Schuyler Section, Township, Range: _____
 Landform (hillslope, terrace, etc.): hillslope Local relief (concave, convex, none): None Slope (%): 5%
 Subregion (LRR): C - Mediterranean California Lat: _____ Long: _____ Datum: _____
 Soil Map Unit Name: _____ NWI classification: _____

Are climatic / hydrologic conditions on the site typical for this time of year? Yes No (If no, explain in Remarks.)
 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 <input checked="" type="radio"/> No <input type="radio"/> Hydric Soil Present? Yes <input checked="" type="radio"/> No <input type="radio"/> Wetland Hydrology Present? Yes <input type="radio"/> No <input checked="" type="radio"/> | Is the Sampled Area within a Wetland? Yes <input type="radio"/> No <input checked="" type="radio"/> |
| Remarks: _____ | |

VEGETATION

| Tree Stratum (Use scientific names.) | Absolute % Cover | Dominant Species? | Indicator Status | | | | | | | | | | | | | | | | | |
|--|------------------------------|---------------------------------|------------------|---|-------------------|--------------|-------------|----------------|--------------|-----------------|-------------|----------------|--------------|----------------|-------------|-----------------|----------------|------------------------------|--------------------------------------|--|
| 1. _____ | | | | Dominance Test worksheet: Number of Dominant Species That Are OBL, FACW, or FAC: <u>1</u> (A) Total Number of Dominant Species Across All Strata: <u>2</u> (B) Percent of Dominant Species That Are OBL, FACW, or FAC: <u>50.0 %</u> (A/B) | | | | | | | | | | | | | | | | |
| 2. _____ | | | | | | | | | | | | | | | | | | | | |
| 3. _____ | | | | | | | | | | | | | | | | | | | | |
| 4. _____ | | | | | | | | | | | | | | | | | | | | |
| Total Cover: _____ % | | | | Prevalence Index worksheet: <table style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 50%;">Total % Cover of:</td> <td style="width: 50%;">Multiply by:</td> </tr> <tr> <td>OBL species</td> <td>x 1 = <u>0</u></td> </tr> <tr> <td>FACW species</td> <td>x 2 = <u>80</u></td> </tr> <tr> <td>FAC species</td> <td>x 3 = <u>6</u></td> </tr> <tr> <td>FACU species</td> <td>x 4 = <u>0</u></td> </tr> <tr> <td>UPL species</td> <td>x 5 = <u>55</u></td> </tr> <tr> <td>Column Totals:</td> <td><u>53</u> (A) <u>141</u> (B)</td> </tr> <tr> <td colspan="2" style="text-align: center;">Prevalence Index = B/A = <u>2.66</u></td> </tr> </table> | Total % Cover of: | Multiply by: | OBL species | x 1 = <u>0</u> | FACW species | x 2 = <u>80</u> | FAC species | x 3 = <u>6</u> | FACU species | x 4 = <u>0</u> | UPL species | x 5 = <u>55</u> | Column Totals: | <u>53</u> (A) <u>141</u> (B) | Prevalence Index = B/A = <u>2.66</u> | |
| Total % Cover of: | Multiply by: | | | | | | | | | | | | | | | | | | | |
| OBL species | x 1 = <u>0</u> | | | | | | | | | | | | | | | | | | | |
| FACW species | x 2 = <u>80</u> | | | | | | | | | | | | | | | | | | | |
| FAC species | x 3 = <u>6</u> | | | | | | | | | | | | | | | | | | | |
| FACU species | x 4 = <u>0</u> | | | | | | | | | | | | | | | | | | | |
| UPL species | x 5 = <u>55</u> | | | | | | | | | | | | | | | | | | | |
| Column Totals: | <u>53</u> (A) <u>141</u> (B) | | | | | | | | | | | | | | | | | | | |
| Prevalence Index = B/A = <u>2.66</u> | | | | | | | | | | | | | | | | | | | | |
| Sapling/Shrub Stratum | | | | | | | | | | | | | | | | | | | | |
| 1. <i>Eriogonum fasciculatum var. polifolium</i> | 5 | Yes | Not Listed | | | | | | | | | | | | | | | | | |
| 2. <i>Artemisia dracunculus</i> | 2 | No | Not Listed | | | | | | | | | | | | | | | | | |
| 3. <i>Quercus × acutidens</i> | 2 | No | Not Listed | | | | | | | | | | | | | | | | | |
| 4. <i>Prunus ilicifolia</i> | 2 | No | Not Listed | | | | | | | | | | | | | | | | | |
| 5. _____ | | | | | | | | | | | | | | | | | | | | |
| Total Cover: <u>11</u> % | | | | | | | | | | | | | | | | | | | | |
| Herb Stratum | | | | | | | | | | | | | | | | | | | | |
| 1. <i>Juncus mexicanus</i> | 30 | Yes | FACW | | | | | | | | | | | | | | | | | |
| 2. <i>Anemopsis californica</i> | 10 | No | FACW | | | | | | | | | | | | | | | | | |
| 3. <i>Urtica dioica</i> | 2 | No | FAC | | | | | | | | | | | | | | | | | |
| 4. _____ | | | | | | | | | | | | | | | | | | | | |
| 5. _____ | | | | | | | | | | | | | | | | | | | | |
| 6. _____ | | | | | | | | | | | | | | | | | | | | |
| 7. _____ | | | | | | | | | | | | | | | | | | | | |
| 8. _____ | | | | | | | | | | | | | | | | | | | | |
| Total Cover: <u>42</u> % | | | | | | | | | | | | | | | | | | | | |
| Woody Vine Stratum | | | | | | | | | | | | | | | | | | | | |
| 1. _____ | | | | | | | | | | | | | | | | | | | | |
| 2. _____ | | | | | | | | | | | | | | | | | | | | |
| Total Cover: _____ % | | | | | | | | | | | | | | | | | | | | |
| % Bare Ground in Herb Stratum _____ % | | % Cover of Biotic Crust _____ % | | | | | | | | | | | | | | | | | | |

Hydrophytic Vegetation Indicators:
 Dominance Test is >50%
 Prevalence Index is ≤3.0¹
 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.

Hydrophytic Vegetation Present? Yes No

Remarks: _____

SOIL

Sampling Point: DS 1b

Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)

| Depth (inches) | Matrix | | Redox Features | | | | Texture ³ | Remarks |
|----------------|---------------|-----|----------------|---|-------------------|------------------|----------------------|---------|
| | Color (moist) | % | Color (moist) | % | Type ¹ | Loc ² | | |
| 0-10 | 10YR 4/2 | 100 | | | | | sandy clay loam | |
| 10-16 | 10YR 4/2 | 93 | 10YR 3/4 | 5 | C | M | sandy clay loam | |
| 10-16 | 10YR 4/2 | -- | 10YR /2 | 2 | D | M | sandy clay loam | |
| | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |

¹Type: C=Concentration, D=Depletion, RM=Reduced Matrix. ²Location: PL=Pore Lining, RC=Root Channel, M=Matrix.
³Soil Textures: Clay, Silty Clay, Sandy Clay, Loam, Sandy Clay Loam, Sandy Loam, Clay Loam, Silty Clay Loam, Silt Loam, Silt, Loamy Sand, Sand.

Hydric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.)

| | | |
|--|--|---|
| <input type="checkbox"/> Histosol (A1) | <input type="checkbox"/> Sandy Redox (S5) | Indicators for Problematic Hydric Soils:⁴ |
| <input type="checkbox"/> Histic Epipedon (A2) | <input type="checkbox"/> Stripped Matrix (S6) | |
| <input type="checkbox"/> Black Histic (A3) | <input type="checkbox"/> Loamy Mucky Mineral (F1) | |
| <input type="checkbox"/> Hydrogen Sulfide (A4) | <input type="checkbox"/> Loamy Gleyed Matrix (F2) | |
| <input type="checkbox"/> Stratified Layers (A5) (LRR C) | <input checked="" type="checkbox"/> Depleted Matrix (F3) | |
| <input type="checkbox"/> 1 cm Muck (A9) (LRR D) | <input type="checkbox"/> Redox Dark Surface (F6) | |
| <input type="checkbox"/> Depleted Below Dark Surface (A11) | <input type="checkbox"/> Depleted Dark Surface (F7) | |
| <input type="checkbox"/> Thick Dark Surface (A12) | <input type="checkbox"/> Redox Depressions (F8) | |
| <input type="checkbox"/> Sandy Mucky Mineral (S1) | <input type="checkbox"/> Vernal Pools (F9) | |
| <input type="checkbox"/> Sandy Gleyed Matrix (S4) | | |

⁴Indicators of hydrophytic vegetation and wetland hydrology must be present.

Restrictive Layer (if present):

Type: _____

Depth (inches): _____

Hydric Soil Present? Yes No

Remarks: concentration and depletion features only present in 10"+ layer but are present in a layer at least 6 inches thick starting at a depth of 10 inches from soil surface.

HYDROLOGY

Wetland Hydrology Indicators:

| | |
|--|--|
| Primary Indicators (any one indicator is sufficient) | Secondary Indicators (2 or more required) |
| <input type="checkbox"/> Surface Water (A1) | <input type="checkbox"/> Water Marks (B1) (Riverine) |
| <input type="checkbox"/> High Water Table (A2) | <input type="checkbox"/> Sediment Deposits (B2) (Riverine) |
| <input type="checkbox"/> Saturation (A3) | <input type="checkbox"/> Drift Deposits (B3) (Riverine) |
| <input type="checkbox"/> Water Marks (B1) (Nonriverine) | <input type="checkbox"/> Drainage Patterns (B10) |
| <input type="checkbox"/> Sediment Deposits (B2) (Nonriverine) | <input type="checkbox"/> Dry-Season Water Table (C2) |
| <input type="checkbox"/> Drift Deposits (B3) (Nonriverine) | <input type="checkbox"/> Thin Muck Surface (C7) |
| <input type="checkbox"/> Surface Soil Cracks (B6) | <input type="checkbox"/> Crayfish Burrows (C8) |
| <input type="checkbox"/> Inundation Visible on Aerial Imagery (B7) | <input type="checkbox"/> Saturation Visible on Aerial Imagery (C9) |
| <input type="checkbox"/> Water-Stained Leaves (B9) | <input type="checkbox"/> Shallow Aquitard (D3) |
| <input type="checkbox"/> Salt Crust (B11) | <input checked="" type="checkbox"/> FAC-Neutral Test (D5) |
| <input type="checkbox"/> Biotic Crust (B12) | |
| <input type="checkbox"/> Aquatic Invertebrates (B13) | |
| <input type="checkbox"/> Hydrogen Sulfide Odor (C1) | |
| <input type="checkbox"/> Oxidized Rhizospheres along Living Roots (C3) | |
| <input type="checkbox"/> Presence of Reduced Iron (C4) | |
| <input type="checkbox"/> Recent Iron Reduction in Plowed Soils (C6) | |
| <input type="checkbox"/> Other (Explain in Remarks) | |

Field Observations:

| | | |
|---|---|-----------------------|
| Surface Water Present? | Yes <input type="radio"/> No <input checked="" type="radio"/> | Depth (inches): _____ |
| Water Table Present? | Yes <input type="radio"/> No <input checked="" type="radio"/> | Depth (inches): _____ |
| Saturation Present? (includes capillary fringe) | Yes <input type="radio"/> No <input checked="" type="radio"/> | Depth (inches): _____ |

Wetland Hydrology Present? Yes No

Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:

Remarks:

WETLAND DETERMINATION DATA FORM - Arid West Region

Project/Site: Campo Wind City/County: Campo/San Diego Sampling Date: 7/25/18, 9/25/18
 Applicant/Owner: Various State: CA Sampling Point: DS 2a
 Investigator(s): L. Mobley, M. Forgey, C. Amoaku, P. Schuyler Section, Township, Range: _____
 Landform (hillslope, terrace, etc.): Hillslope Local relief (concave, convex, none): concave Slope (%): 5
 Subregion (LRR): C - Mediterranean California Lat: _____ Long: _____ Datum: _____
 Soil Map Unit Name: _____ NWI classification: _____

Are climatic / hydrologic conditions on the site typical for this time of year? Yes No (If no, explain in Remarks.)
 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 <input checked="" type="radio"/> No <input type="radio"/> Hydric Soil Present? Yes <input type="radio"/> No <input checked="" type="radio"/> Wetland Hydrology Present? Yes <input type="radio"/> No <input checked="" type="radio"/> | Is the Sampled Area within a Wetland? Yes <input type="radio"/> No <input checked="" type="radio"/> |
| Remarks: Hydrophytic vegetation adjacent to ponded water (DS 3) | |

VEGETATION

| Tree Stratum (Use scientific names.) | Absolute % Cover | Dominant Species? | Indicator Status | Dominance Test worksheet: | | |
|---------------------------------------|------------------|---------------------------------|------------------|---|----------------|------------------|
| 1. <i>Quercus agrifolia</i> | 5 | Yes | Not Listed | Number of Dominant Species That Are OBL, FACW, or FAC: <u>2</u> (A) | | |
| 2. _____ | | | | Total Number of Dominant Species Across All Strata: <u>6</u> (B) | | |
| 3. _____ | | | | Percent of Dominant Species That Are OBL, FACW, or FAC: <u>33.3 %</u> (A/B) | | |
| 4. _____ | | | | | | |
| Total Cover: <u>5 %</u> | | | | Prevalence Index worksheet: | | |
| Sapling/Shrub Stratum | | | | Total % Cover of: | | Multiply by: |
| 1. <i>Artemisia tridentata</i> | 3 | Yes | Not Listed | OBL species | 40 | x 1 = <u>40</u> |
| 2. <i>Arctostaphylos pungens</i> | 2 | Yes | Not Listed | FACW species | 55 | x 2 = <u>110</u> |
| 3. <i>Artemisia dracunculus</i> | 2 | Yes | Not Listed | FAC species | | x 3 = <u>0</u> |
| 4. _____ | | | | FACU species | 3 | x 4 = <u>12</u> |
| 5. _____ | | | | UPL species | 14 | x 5 = <u>70</u> |
| Total Cover: <u>7 %</u> | | | | Column Totals: | <u>112</u> (A) | <u>232</u> (B) |
| Herb Stratum | | | | Prevalence Index = B/A = <u>2.07</u> | | |
| 1. <i>Juncus mexicanus</i> | 55 | Yes | FACW | Hydrophytic Vegetation Indicators: | | |
| 2. <i>Anemopsis californica</i> | 40 | Yes | OBL | <input checked="" type="checkbox"/> Dominance Test is >50% | | |
| 3. <i>Ambrosia psilostachya</i> | 3 | No | FACU | <input checked="" type="checkbox"/> Prevalence Index is ≤3.0 ¹ | | |
| 4. <i>Carduus pycnocephalus</i> | 2 | No | Not Listed | <input type="checkbox"/> Morphological Adaptations ¹ (Provide supporting data in Remarks or on a separate sheet) | | |
| 5. _____ | | | | <input type="checkbox"/> Problematic Hydrophytic Vegetation ¹ (Explain) | | |
| 6. _____ | | | | ¹ Indicators of hydric soil and wetland hydrology must be present. | | |
| 7. _____ | | | | | | |
| 8. _____ | | | | | | |
| Total Cover: <u>100%</u> | | | | Hydrophytic Vegetation Present? Yes <input checked="" type="radio"/> No <input type="radio"/> | | |
| Woody Vine Stratum | | | | | | |
| 1. _____ | | | | | | |
| 2. _____ | | | | | | |
| Total Cover: _____ % | | | | | | |
| % Bare Ground in Herb Stratum _____ % | | % Cover of Biotic Crust _____ % | | | | |

Remarks: _____

SOIL

Sampling Point: DS 2a

Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)

| Depth (inches) | Matrix | | Redox Features | | | | Texture ³ | Remarks |
|-------------------|---------------|-----|----------------|---|-------------------|------------------|----------------------|---------|
| | Color (moist) | % | Color (moist) | % | Type ¹ | Loc ² | | |
| 0-10 | 5Y 2.5/1 | 100 | N/A | | | | clay loam | |
| | | | | | | | | |
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| | | | | | | | | |

¹Type: C=Concentration, D=Depletion, RM=Reduced Matrix. ²Location: PL=Pore Lining, RC=Root Channel, M=Matrix.
³Soil Textures: Clay, Silty Clay, Sandy Clay, Loam, Sandy Clay Loam, Sandy Loam, Clay Loam, Silty Clay Loam, Silt Loam, Silt, Loamy Sand, Sand.

| | | |
|--|---|--|
| <p>Hydric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.)</p> <input type="checkbox"/> Histosol (A1) <input type="checkbox"/> Histic Epipedon (A2) <input type="checkbox"/> Black Histic (A3) <input type="checkbox"/> Hydrogen Sulfide (A4) <input type="checkbox"/> Stratified Layers (A5) (LRR C) <input type="checkbox"/> 1 cm Muck (A9) (LRR D) <input type="checkbox"/> Depleted Below Dark Surface (A11) <input type="checkbox"/> Thick Dark Surface (A12) <input type="checkbox"/> Sandy Mucky Mineral (S1) <input type="checkbox"/> Sandy Gleyed Matrix (S4) | <input type="checkbox"/> Sandy Redox (S5) <input type="checkbox"/> Stripped Matrix (S6) <input type="checkbox"/> Loamy Mucky Mineral (F1) <input type="checkbox"/> Loamy Gleyed Matrix (F2) <input type="checkbox"/> Depleted Matrix (F3) <input type="checkbox"/> Redox Dark Surface (F6) <input type="checkbox"/> Depleted Dark Surface (F7) <input type="checkbox"/> Redox Depressions (F8) <input type="checkbox"/> Vernal Pools (F9) | <p>Indicators for Problematic Hydric Soils:⁴</p> <input type="checkbox"/> 1 cm Muck (A9) (LRR C) <input type="checkbox"/> 2 cm Muck (A10) (LRR B) <input type="checkbox"/> Reduced Vertic (F18) <input type="checkbox"/> Red Parent Material (TF2) <input type="checkbox"/> Other (Explain in Remarks) |
|--|---|--|

⁴Indicators of hydrophytic vegetation and wetland hydrology must be present.

| | |
|--|--|
| <p>Restrictive Layer (if present):</p> Type: roots _____ Depth (inches): 10+ _____ Remarks: _____ | <p>Hydric Soil Present? Yes <input type="radio"/> No <input checked="" type="radio"/></p> |
|--|--|

HYDROLOGY

| | | |
|---|---|---|
| <p>Wetland Hydrology Indicators:</p> <p>Primary Indicators (any one indicator is sufficient)</p> <input type="checkbox"/> Surface Water (A1) <input type="checkbox"/> High Water Table (A2) <input type="checkbox"/> Saturation (A3) <input type="checkbox"/> Water Marks (B1) (Nonriverine) <input type="checkbox"/> Sediment Deposits (B2) (Nonriverine) <input type="checkbox"/> Drift Deposits (B3) (Nonriverine) <input type="checkbox"/> Surface Soil Cracks (B6) <input type="checkbox"/> Inundation Visible on Aerial Imagery (B7) <input type="checkbox"/> Water-Stained Leaves (B9) | <input type="checkbox"/> Salt Crust (B11) <input type="checkbox"/> Biotic Crust (B12) <input type="checkbox"/> Aquatic Invertebrates (B13) <input type="checkbox"/> Hydrogen Sulfide Odor (C1) <input type="checkbox"/> Oxidized Rhizospheres along Living Roots (C3) <input type="checkbox"/> Presence of Reduced Iron (C4) <input type="checkbox"/> Recent Iron Reduction in Plowed Soils (C6) <input type="checkbox"/> Other (Explain in Remarks) | <p><u>Secondary Indicators (2 or more required)</u></p> <input type="checkbox"/> Water Marks (B1) (Riverine) <input type="checkbox"/> Sediment Deposits (B2) (Riverine) <input type="checkbox"/> Drift Deposits (B3) (Riverine) <input type="checkbox"/> Drainage Patterns (B10) <input type="checkbox"/> Dry-Season Water Table (C2) <input type="checkbox"/> Thin Muck Surface (C7) <input type="checkbox"/> Crayfish Burrows (C8) <input type="checkbox"/> Saturation Visible on Aerial Imagery (C9) <input type="checkbox"/> Shallow Aquitard (D3) <input type="checkbox"/> FAC-Neutral Test (D5) |
|---|---|---|

| | |
|--|--|
| <p>Field Observations:</p> Surface Water Present? Yes <input type="radio"/> No <input checked="" type="radio"/> Depth (inches): _____ Water Table Present? Yes <input type="radio"/> No <input checked="" type="radio"/> Depth (inches): _____ Saturation Present? (includes capillary fringe) Yes <input type="radio"/> No <input checked="" type="radio"/> Depth (inches): _____ | <p>Wetland Hydrology Present? Yes <input type="radio"/> No <input checked="" type="radio"/></p> |
|--|--|

Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:

Remarks:

WETLAND DETERMINATION DATA FORM - Arid West Region

Project/Site: Campo Wind City/County: Campo/San Diego Sampling Date: 9/25/18
 Applicant/Owner: Various State: CA Sampling Point: DS 2b
 Investigator(s): C. Amoaku, P. Schuyler Section, Township, Range: _____
 Landform (hillslope, terrace, etc.): Hillslope Local relief (concave, convex, none): concave Slope (%): 5
 Subregion (LRR): C - Mediterranean California Lat: _____ Long: _____ Datum: _____
 Soil Map Unit Name: _____ NWI classification: _____

Are climatic / hydrologic conditions on the site typical for this time of year? Yes No (If no, explain in Remarks.)
 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 <input checked="" type="radio"/> No <input type="radio"/> Hydric Soil Present? Yes <input type="radio"/> No <input checked="" type="radio"/> Wetland Hydrology Present? Yes <input type="radio"/> No <input checked="" type="radio"/> | Is the Sampled Area within a Wetland? Yes <input type="radio"/> No <input checked="" type="radio"/> |
| Remarks: Hydrophytic vegetation adjacent to ponded water (DS 3) | |

VEGETATION

| Tree Stratum (Use scientific names.) | Absolute % Cover | Dominant Species? | Indicator Status | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|--|---|--|------------------|--|--|---|-------------------|--|--------------|--|-------------|--|-------|--|--|--------------|--|-------|--|---|-------------|--|-------|--|---|--------------|--|-------|--|---|-------------|--|-------|--|---|----------------|---|--|--|---|--------------------------|--|--|--|--|
| 1. <i>Quercus agrifolia</i> (canopy cover) | 2 | No | Not Listed | Dominance Test worksheet: Number of Dominant Species That Are OBL, FACW, or FAC: 2 (A) Total Number of Dominant Species Across All Strata: 4 (B) Percent of Dominant Species That Are OBL, FACW, or FAC: 50.0 % (A/B) | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 2. _____ | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 3. _____ | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 4. _____ | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Total Cover: 2 % | | | | Prevalence Index worksheet: <table style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 30%;"></td> <td style="width: 20%; text-align: center;">Total % Cover of:</td> <td style="width: 20%;"></td> <td style="width: 20%; text-align: center;">Multiply by:</td> <td style="width: 10%;"></td> </tr> <tr> <td>OBL species</td> <td style="text-align: center;">30</td> <td>x 1 =</td> <td></td> <td style="text-align: center;">30</td> </tr> <tr> <td>FACW species</td> <td style="text-align: center;">80</td> <td>x 2 =</td> <td></td> <td style="text-align: center;">160</td> </tr> <tr> <td>FAC species</td> <td></td> <td>x 3 =</td> <td></td> <td style="text-align: center;">0</td> </tr> <tr> <td>FACU species</td> <td></td> <td>x 4 =</td> <td></td> <td style="text-align: center;">0</td> </tr> <tr> <td>UPL species</td> <td style="text-align: center;">46</td> <td>x 5 =</td> <td></td> <td style="text-align: center;">230</td> </tr> <tr> <td>Column Totals:</td> <td style="text-align: center;">156 (A)</td> <td></td> <td></td> <td style="text-align: center;">420 (B)</td> </tr> <tr> <td colspan="4" style="text-align: right;">Prevalence Index = B/A =</td> <td style="text-align: center;">2.69</td> </tr> </table> | | | Total % Cover of: | | Multiply by: | | OBL species | 30 | x 1 = | | 30 | FACW species | 80 | x 2 = | | 160 | FAC species | | x 3 = | | 0 | FACU species | | x 4 = | | 0 | UPL species | 46 | x 5 = | | 230 | Column Totals: | 156 (A) | | | 420 (B) | Prevalence Index = B/A = | | | | 2.69 |
| | Total % Cover of: | | Multiply by: | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| OBL species | 30 | x 1 = | | | | 30 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| FACW species | 80 | x 2 = | | | | 160 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| FAC species | | x 3 = | | | | 0 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| FACU species | | x 4 = | | 0 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| UPL species | 46 | x 5 = | | 230 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Column Totals: | 156 (A) | | | 420 (B) | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Prevalence Index = B/A = | | | | 2.69 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Total Cover: 42 % | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Sapling/Shrub Stratum | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 1. <i>Artemisia tridentata</i> | 20 | Yes | Not Listed | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 2. <i>Artemisia dracunculus</i> | 20 | Yes | Not Listed | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 3. <i>Arctostaphylos pungens</i> | 2 | No | Not Listed | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 4. _____ | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 5. _____ | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Total Cover: 42 % | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Herb Stratum | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 1. <i>Juncus mexicanus</i> | 80 | Yes | FACW | Hydrophytic Vegetation Indicators: <input checked="" type="checkbox"/> Dominance Test is >50% <input checked="" type="checkbox"/> Prevalence Index is ≤3.0 ¹ <input type="checkbox"/> Morphological Adaptations ¹ (Provide supporting data in Remarks or on a separate sheet) <input type="checkbox"/> Problematic Hydrophytic Vegetation ¹ (Explain) ¹ Indicators of hydric soil and wetland hydrology must be present. | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 2. <i>Anemopsis californica</i> | 30 | Yes | OBL | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 3. <i>Carduus pycnocephalus</i> | 2 | No | Not Listed | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 4. _____ | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 5. _____ | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 6. _____ | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 7. _____ | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 8. _____ | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Total Cover: 112 % | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Woody Vine Stratum | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 1. _____ | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 2. _____ | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Total Cover: % | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| % Bare Ground in Herb Stratum % | | % Cover of Biotic Crust % | | Hydrophytic Vegetation Present? Yes <input checked="" type="radio"/> No <input type="radio"/> | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Remarks: | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

SOIL

Sampling Point: DS 2b

| Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.) | | | | | | | | |
|---|---------------|-----|----------------|---|-------------------|------------------|----------------------|---------|
| Depth (inches) | Matrix | | Redox Features | | | | Texture ³ | Remarks |
| | Color (moist) | % | Color (moist) | % | Type ¹ | Loc ² | | |
| 0-16 | 5Y 2.5/1 | 100 | N/A | | | | clay loam | |
| | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |
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| | | | | | | | | |
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| | | | | | | | | |

¹Type: C=Concentration, D=Depletion, RM=Reduced Matrix. ²Location: PL=Pore Lining, RC=Root Channel, M=Matrix.
³Soil Textures: Clay, Silty Clay, Sandy Clay, Loam, Sandy Clay Loam, Sandy Loam, Clay Loam, Silty Clay Loam, Silt Loam, Silt, Loamy Sand, Sand.

| | | |
|--|---|--|
| <p>Hydric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.)</p> <input type="checkbox"/> Histosol (A1) <input type="checkbox"/> Histic Epipedon (A2) <input type="checkbox"/> Black Histic (A3) <input type="checkbox"/> Hydrogen Sulfide (A4) <input type="checkbox"/> Stratified Layers (A5) (LRR C) <input type="checkbox"/> 1 cm Muck (A9) (LRR D) <input type="checkbox"/> Depleted Below Dark Surface (A11) <input type="checkbox"/> Thick Dark Surface (A12) <input type="checkbox"/> Sandy Mucky Mineral (S1) <input type="checkbox"/> Sandy Gleyed Matrix (S4) | <input type="checkbox"/> Sandy Redox (S5) <input type="checkbox"/> Stripped Matrix (S6) <input type="checkbox"/> Loamy Mucky Mineral (F1) <input type="checkbox"/> Loamy Gleyed Matrix (F2) <input type="checkbox"/> Depleted Matrix (F3) <input type="checkbox"/> Redox Dark Surface (F6) <input type="checkbox"/> Depleted Dark Surface (F7) <input type="checkbox"/> Redox Depressions (F8) <input type="checkbox"/> Vernal Pools (F9) | <p>Indicators for Problematic Hydric Soils:⁴</p> <input type="checkbox"/> 1 cm Muck (A9) (LRR C) <input type="checkbox"/> 2 cm Muck (A10) (LRR B) <input type="checkbox"/> Reduced Vertic (F18) <input type="checkbox"/> Red Parent Material (TF2) <input type="checkbox"/> Other (Explain in Remarks) |
|--|---|--|

⁴Indicators of hydrophytic vegetation and wetland hydrology must be present.

| | |
|--|--|
| <p>Restrictive Layer (if present):</p> Type: _____ Depth (inches): _____ Remarks: _____ | <p>Hydric Soil Present? Yes <input type="radio"/> No <input checked="" type="radio"/></p> |
|--|--|

HYDROLOGY

| | | |
|---|---|---|
| <p>Wetland Hydrology Indicators:</p> <p>Primary Indicators (any one indicator is sufficient)</p> <input type="checkbox"/> Surface Water (A1) <input type="checkbox"/> High Water Table (A2) <input type="checkbox"/> Saturation (A3) <input type="checkbox"/> Water Marks (B1) (Nonriverine) <input type="checkbox"/> Sediment Deposits (B2) (Nonriverine) <input type="checkbox"/> Drift Deposits (B3) (Nonriverine) <input type="checkbox"/> Surface Soil Cracks (B6) <input type="checkbox"/> Inundation Visible on Aerial Imagery (B7) <input type="checkbox"/> Water-Stained Leaves (B9) | <input type="checkbox"/> Salt Crust (B11) <input type="checkbox"/> Biotic Crust (B12) <input type="checkbox"/> Aquatic Invertebrates (B13) <input type="checkbox"/> Hydrogen Sulfide Odor (C1) <input type="checkbox"/> Oxidized Rhizospheres along Living Roots (C3) <input type="checkbox"/> Presence of Reduced Iron (C4) <input type="checkbox"/> Recent Iron Reduction in Plowed Soils (C6) <input type="checkbox"/> Other (Explain in Remarks) | <p><u>Secondary Indicators (2 or more required)</u></p> <input type="checkbox"/> Water Marks (B1) (Riverine) <input type="checkbox"/> Sediment Deposits (B2) (Riverine) <input type="checkbox"/> Drift Deposits (B3) (Riverine) <input type="checkbox"/> Drainage Patterns (B10) <input type="checkbox"/> Dry-Season Water Table (C2) <input type="checkbox"/> Thin Muck Surface (C7) <input type="checkbox"/> Crayfish Burrows (C8) <input type="checkbox"/> Saturation Visible on Aerial Imagery (C9) <input type="checkbox"/> Shallow Aquitard (D3) <input type="checkbox"/> FAC-Neutral Test (D5) |
| <p>Field Observations:</p> Surface Water Present? Yes <input type="radio"/> No <input checked="" type="radio"/> Depth (inches): _____ Water Table Present? Yes <input type="radio"/> No <input checked="" type="radio"/> Depth (inches): _____ Saturation Present? (includes capillary fringe) Yes <input type="radio"/> No <input checked="" type="radio"/> Depth (inches): _____ | <p>Wetland Hydrology Present? Yes <input type="radio"/> No <input checked="" type="radio"/></p> | |
| Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available: _____ _____ _____ Remarks: _____ | | |

WETLAND DETERMINATION DATA FORM - Arid West Region

Project/Site: Campo Wind City/County: Campo/San Diego Sampling Date: 9/25/2018
 Applicant/Owner: Various State: CA Sampling Point: DS 3
 Investigator(s): Callie Amoaku, Patricia Schuyler Section, Township, Range: _____
 Landform (hillslope, terrace, etc.): Spring Local relief (concave, convex, none): None Slope (%): 0
 Subregion (LRR): C - Mediterranean California Lat: _____ Long: _____ Datum: _____
 Soil Map Unit Name: _____ NWI classification: _____

Are climatic / hydrologic conditions on the site typical for this time of year? Yes No (If no, explain in Remarks.)
 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 <input checked="" type="radio"/> No <input type="radio"/> Hydric Soil Present? Yes <input checked="" type="radio"/> No <input type="radio"/> Wetland Hydrology Present? Yes <input checked="" type="radio"/> No <input type="radio"/> | Is the Sampled Area within a Wetland? Yes <input checked="" type="radio"/> No <input type="radio"/> |
| Remarks: <u>Concrete-walled basin/spring with earthen bottom; fenced.</u> | |

VEGETATION

| Tree Stratum (Use scientific names.) | Absolute % Cover | Dominant Species? | Indicator Status | |
|---------------------------------------|------------------|---------------------------------|------------------|--|
| 1. _____ | | | | |
| 2. _____ | | | | |
| 3. _____ | | | | |
| 4. _____ | | | | |
| Total Cover: _____ % | | | | |
| Sapling/Shrub Stratum | | | | |
| 1. _____ | | | | |
| 2. _____ | | | | |
| 3. _____ | | | | |
| 4. _____ | | | | |
| 5. _____ | | | | |
| Total Cover: _____ % | | | | |
| Herb Stratum | | | | |
| 1. <u>Typha latifolia</u> | 100 | Yes | OBL | |
| 2. _____ | | | | |
| 3. _____ | | | | |
| 4. _____ | | | | |
| 5. _____ | | | | |
| 6. _____ | | | | |
| 7. _____ | | | | |
| 8. _____ | | | | |
| Total Cover: <u>100%</u> | | | | |
| Woody Vine Stratum | | | | |
| 1. _____ | | | | |
| 2. _____ | | | | |
| Total Cover: _____ % | | | | |
| % Bare Ground in Herb Stratum _____ % | | % Cover of Biotic Crust _____ % | | |

Dominance Test worksheet:

Number of Dominant Species That Are OBL, FACW, or FAC: 1 (A)

Total Number of Dominant Species Across All Strata: 1 (B)

Percent of Dominant Species That Are OBL, FACW, or FAC: 100.0 % (A/B)

Prevalence Index worksheet:

| | | | | |
|--------------------------|-------------------|-------|--------------|---------|
| | Total % Cover of: | | Multiply by: | |
| OBL species | 100 | x 1 = | | 100 |
| FACW species | | x 2 = | | 0 |
| FAC species | | x 3 = | | 0 |
| FACU species | | x 4 = | | 0 |
| UPL species | | x 5 = | | 0 |
| Column Totals: | 100 | (A) | | 100 (B) |
| Prevalence Index = B/A = | | | | 1.00 |

Hydrophytic Vegetation Indicators:

Dominance Test is >50%

Prevalence Index is ≤3.0¹

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.

Hydrophytic Vegetation Present? Yes No

Remarks: _____

SOIL

Sampling Point: DS 3

Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)

| Depth (inches) | Matrix | | Redox Features | | | | Texture ³ | Remarks |
|-------------------|---------------|---|----------------|---|-------------------|------------------|----------------------|---------|
| | Color (moist) | % | Color (moist) | % | Type ¹ | Loc ² | | |
| | | | | | | | | |
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| | | | | | | | | |

¹Type: C=Concentration, D=Depletion, RM=Reduced Matrix. ²Location: PL=Pore Lining, RC=Root Channel, M=Matrix.
³Soil Textures: Clay, Silty Clay, Sandy Clay, Loam, Sandy Clay Loam, Sandy Loam, Clay Loam, Silty Clay Loam, Silt Loam, Silt, Loamy Sand, Sand.

| | | |
|--|---|---|
| <p>Hydric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.)</p> <input type="checkbox"/> Histosol (A1) <input type="checkbox"/> Histic Epipedon (A2) <input type="checkbox"/> Black Histic (A3) <input type="checkbox"/> Hydrogen Sulfide (A4) <input type="checkbox"/> Stratified Layers (A5) (LRR C) <input type="checkbox"/> 1 cm Muck (A9) (LRR D) <input type="checkbox"/> Depleted Below Dark Surface (A11) <input type="checkbox"/> Thick Dark Surface (A12) <input type="checkbox"/> Sandy Mucky Mineral (S1) <input type="checkbox"/> Sandy Gleyed Matrix (S4) | <input type="checkbox"/> Sandy Redox (S5) <input type="checkbox"/> Stripped Matrix (S6) <input type="checkbox"/> Loamy Mucky Mineral (F1) <input type="checkbox"/> Loamy Gleyed Matrix (F2) <input type="checkbox"/> Depleted Matrix (F3) <input type="checkbox"/> Redox Dark Surface (F6) <input type="checkbox"/> Depleted Dark Surface (F7) <input type="checkbox"/> Redox Depressions (F8) <input type="checkbox"/> Vernal Pools (F9) | <p>Indicators for Problematic Hydric Soils:⁴</p> <input type="checkbox"/> 1 cm Muck (A9) (LRR C) <input type="checkbox"/> 2 cm Muck (A10) (LRR B) <input type="checkbox"/> Reduced Vertic (F18) <input type="checkbox"/> Red Parent Material (TF2) <input checked="" type="checkbox"/> Other (Explain in Remarks) |
|--|---|---|

⁴Indicators of hydrophytic vegetation and wetland hydrology must be present.

| | |
|--|--|
| <p>Restrictive Layer (if present):</p> Type: _____ Depth (inches): _____ | <p>Hydric Soil Present? Yes <input checked="" type="radio"/> No <input type="radio"/></p> |
|--|--|

Remarks: Could not access due to fencing. Assumed hydric soils due to perennial water present.

HYDROLOGY

| | | |
|--|---|--|
| <p>Wetland Hydrology Indicators:</p> <p>Primary Indicators (any one indicator is sufficient)</p> <input checked="" type="checkbox"/> Surface Water (A1) <input type="checkbox"/> High Water Table (A2) <input type="checkbox"/> Saturation (A3) <input type="checkbox"/> Water Marks (B1) (Nonriverine) <input type="checkbox"/> Sediment Deposits (B2) (Nonriverine) <input type="checkbox"/> Drift Deposits (B3) (Nonriverine) <input type="checkbox"/> Surface Soil Cracks (B6) <input type="checkbox"/> Inundation Visible on Aerial Imagery (B7) <input type="checkbox"/> Water-Stained Leaves (B9) | <input type="checkbox"/> Salt Crust (B11) <input type="checkbox"/> Biotic Crust (B12) <input type="checkbox"/> Aquatic Invertebrates (B13) <input type="checkbox"/> Hydrogen Sulfide Odor (C1) <input type="checkbox"/> Oxidized Rhizospheres along Living Roots (C3) <input type="checkbox"/> Presence of Reduced Iron (C4) <input type="checkbox"/> Recent Iron Reduction in Plowed Soils (C6) <input type="checkbox"/> Other (Explain in Remarks) | <p><u>Secondary Indicators (2 or more required)</u></p> <input type="checkbox"/> Water Marks (B1) (Riverine) <input type="checkbox"/> Sediment Deposits (B2) (Riverine) <input type="checkbox"/> Drift Deposits (B3) (Riverine) <input type="checkbox"/> Drainage Patterns (B10) <input type="checkbox"/> Dry-Season Water Table (C2) <input type="checkbox"/> Thin Muck Surface (C7) <input type="checkbox"/> Crayfish Burrows (C8) <input type="checkbox"/> Saturation Visible on Aerial Imagery (C9) <input type="checkbox"/> Shallow Aquitard (D3) <input checked="" type="checkbox"/> FAC-Neutral Test (D5) |
|--|---|--|

| | |
|---|--|
| <p>Field Observations:</p> Surface Water Present? Yes <input checked="" type="radio"/> No <input type="radio"/> Depth (inches): <u>unknown</u> Water Table Present? Yes <input type="radio"/> No <input checked="" type="radio"/> Depth (inches): _____ Saturation Present? (includes capillary fringe) Yes <input type="radio"/> No <input checked="" type="radio"/> Depth (inches): _____ | <p>Wetland Hydrology Present? Yes <input checked="" type="radio"/> No <input type="radio"/></p> |
|---|--|

Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:

Remarks:

WETLAND DETERMINATION DATA FORM - Arid West Region

Project/Site: Campo Wind City/County: Campo/San Diego Sampling Date: 7/17/18 & 9/25/18
 Applicant/Owner: Various State: CA Sampling Point: DS 4
 Investigator(s): M. O'Conner, M. Forgey, C. Amoaku, P. Schmitt Section, Township, Range: _____
 Landform (hillslope, terrace, etc.): drainage channel Local relief (concave, convex, none): None Slope (%): 10
 Subregion (LRR): C - Mediterranean California Lat: _____ Long: _____ Datum: _____
 Soil Map Unit Name: _____ NWI classification: _____

Are climatic / hydrologic conditions on the site typical for this time of year? Yes No (If no, explain in Remarks.)
 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 <input type="radio"/> No <input checked="" type="radio"/> Hydric Soil Present? Yes <input type="radio"/> No <input checked="" type="radio"/> Wetland Hydrology Present? Yes <input checked="" type="radio"/> No <input type="radio"/> | Is the Sampled Area within a Wetland? Yes <input type="radio"/> No <input checked="" type="radio"/> |
| Remarks: _____ | |

VEGETATION

| Tree Stratum (Use scientific names.) | Absolute % Cover | Dominant Species? | Indicator Status | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|--|------------------|---|------------------|--|-------------------|--|--------------|--|--|-------------|--|-------|---|--|--------------|----|-------|----|--|-------------|---|-------|---|--|--------------|--|-------|---|--|-------------|----|-------|-----|--|----------------|----|--|---------|-----|--------------------------|--|--|--|--|
| 1. <i>Salix lasiolepis</i> | 20 | Yes | FACW | Dominance Test worksheet: Number of Dominant Species That Are OBL, FACW, or FAC: 1 (A) Total Number of Dominant Species Across All Strata: 3 (B) Percent of Dominant Species That Are OBL, FACW, or FAC: 33.3 % (A/B) | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 2. <i>Quercus agrifolia</i> | 5 | No | Not Listed | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 3. _____ | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 4. _____ | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Total Cover: 25 % | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Sapling/Shrub Stratum | Absolute % Cover | Dominant Species? | Indicator Status | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 1. <i>Artemisia dracuncululus</i> | 5 | Yes | Not Listed | Prevalence Index worksheet: <table style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 40%;">Total % Cover of:</td> <td style="width: 10%;"></td> <td style="width: 10%;">Multiply by:</td> <td style="width: 10%;"></td> <td style="width: 10%;"></td> </tr> <tr> <td>OBL species</td> <td></td> <td>x 1 =</td> <td style="background-color: #cccccc; text-align: center;">0</td> <td></td> </tr> <tr> <td>FACW species</td> <td style="text-align: center;">20</td> <td>x 2 =</td> <td style="background-color: #cccccc; text-align: center;">40</td> <td></td> </tr> <tr> <td>FAC species</td> <td style="text-align: center;">2</td> <td>x 3 =</td> <td style="background-color: #cccccc; text-align: center;">6</td> <td></td> </tr> <tr> <td>FACU species</td> <td></td> <td>x 4 =</td> <td style="background-color: #cccccc; text-align: center;">0</td> <td></td> </tr> <tr> <td>UPL species</td> <td style="text-align: center;">26</td> <td>x 5 =</td> <td style="background-color: #cccccc; text-align: center;">130</td> <td></td> </tr> <tr> <td>Column Totals:</td> <td style="text-align: center;">48</td> <td></td> <td style="text-align: center;">(A) 176</td> <td style="text-align: center;">(B)</td> </tr> <tr> <td colspan="2" style="text-align: right;">Prevalence Index = B/A =</td> <td colspan="3" style="text-align: center;">3.67</td> </tr> </table> | Total % Cover of: | | Multiply by: | | | OBL species | | x 1 = | 0 | | FACW species | 20 | x 2 = | 40 | | FAC species | 2 | x 3 = | 6 | | FACU species | | x 4 = | 0 | | UPL species | 26 | x 5 = | 130 | | Column Totals: | 48 | | (A) 176 | (B) | Prevalence Index = B/A = | | 3.67 | | |
| Total % Cover of: | | Multiply by: | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| OBL species | | x 1 = | 0 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| FACW species | 20 | x 2 = | 40 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| FAC species | 2 | x 3 = | 6 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| FACU species | | x 4 = | 0 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| UPL species | 26 | x 5 = | 130 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Column Totals: | 48 | | (A) 176 | (B) | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Prevalence Index = B/A = | | 3.67 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 2. <i>Ericameria linearifolia</i> | 1 | No | Not Listed | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 3. _____ | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 4. _____ | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 5. _____ | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Total Cover: 6 % | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Herb Stratum | Absolute % Cover | Dominant Species? | Indicator Status | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 1. <i>Bromus tectorum</i> | 10 | Yes | Not Listed | Hydrophytic Vegetation Indicators: <input checked="" type="checkbox"/> Dominance Test is >50% <input checked="" type="checkbox"/> Prevalence Index is ≤3.0 ¹ <input type="checkbox"/> Morphological Adaptations ¹ (Provide supporting data in Remarks or on a separate sheet) <input type="checkbox"/> Problematic Hydrophytic Vegetation ¹ (Explain) ¹ Indicators of hydric soil and wetland hydrology must be present. | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 2. <i>Avena barbata</i> | 3 | No | Not Listed | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 3. <i>Eriastrum densifolium</i> | 2 | No | NI | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 4. <i>Urtica dioica</i> | 1 | No | FAC | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 5. <i>Rumex crispus</i> | 1 | No | FAC | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 6. _____ | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 7. _____ | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 8. _____ | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Total Cover: 17 % | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Woody Vine Stratum | Absolute % Cover | Dominant Species? | Indicator Status | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 1. _____ | | | | Hydrophytic Vegetation Present? Yes <input type="radio"/> No <input checked="" type="radio"/> | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 2. _____ | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Total Cover: % | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| % Bare Ground in Herb Stratum 50 % | | % Cover of Biotic Crust % | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Remarks: _____ | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

SOIL

Sampling Point: DS 4

Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)

| Depth (inches) | Matrix | | Redox Features | | | | Texture ³ | Remarks |
|----------------|---------------|-----|----------------|---|-------------------|------------------|----------------------|---------|
| | Color (moist) | % | Color (moist) | % | Type ¹ | Loc ² | | |
| 0-6 | 7.5YR 4/2 | 100 | N/A | | | | Sand | |
| 6-16 | 7.5YR 3/3 | 100 | N/A | | | | Sandy loam | |
| | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |

¹Type: C=Concentration, D=Depletion, RM=Reduced Matrix. ²Location: PL=Pore Lining, RC=Root Channel, M=Matrix.
³Soil Textures: Clay, Silty Clay, Sandy Clay, Loam, Sandy Clay Loam, Sandy Loam, Clay Loam, Silty Clay Loam, Silt Loam, Silt, Loamy Sand, Sand.

| | | |
|--|---|--|
| <p>Hydric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.)</p> <input type="checkbox"/> Histosol (A1) <input type="checkbox"/> Histic Epipedon (A2) <input type="checkbox"/> Black Histic (A3) <input type="checkbox"/> Hydrogen Sulfide (A4) <input type="checkbox"/> Stratified Layers (A5) (LRR C) <input type="checkbox"/> 1 cm Muck (A9) (LRR D) <input type="checkbox"/> Depleted Below Dark Surface (A11) <input type="checkbox"/> Thick Dark Surface (A12) <input type="checkbox"/> Sandy Mucky Mineral (S1) <input type="checkbox"/> Sandy Gleyed Matrix (S4) | <input type="checkbox"/> Sandy Redox (S5) <input type="checkbox"/> Stripped Matrix (S6) <input type="checkbox"/> Loamy Mucky Mineral (F1) <input type="checkbox"/> Loamy Gleyed Matrix (F2) <input type="checkbox"/> Depleted Matrix (F3) <input type="checkbox"/> Redox Dark Surface (F6) <input type="checkbox"/> Depleted Dark Surface (F7) <input type="checkbox"/> Redox Depressions (F8) <input type="checkbox"/> Vernal Pools (F9) | <p>Indicators for Problematic Hydric Soils:⁴</p> <input type="checkbox"/> 1 cm Muck (A9) (LRR C) <input type="checkbox"/> 2 cm Muck (A10) (LRR B) <input type="checkbox"/> Reduced Vertic (F18) <input type="checkbox"/> Red Parent Material (TF2) <input type="checkbox"/> Other (Explain in Remarks) |
|--|---|--|

⁴Indicators of hydrophytic vegetation and wetland hydrology must be present.

Restrictive Layer (if present):

Type: _____

Depth (inches): _____

Remarks: _____

Hydric Soil Present? Yes No

HYDROLOGY

| | | |
|---|---|---|
| <p>Wetland Hydrology Indicators:</p> <p>Primary Indicators (any one indicator is sufficient)</p> <input type="checkbox"/> Surface Water (A1) <input type="checkbox"/> High Water Table (A2) <input type="checkbox"/> Saturation (A3) <input type="checkbox"/> Water Marks (B1) (Nonriverine) <input type="checkbox"/> Sediment Deposits (B2) (Nonriverine) <input type="checkbox"/> Drift Deposits (B3) (Nonriverine) <input type="checkbox"/> Surface Soil Cracks (B6) <input type="checkbox"/> Inundation Visible on Aerial Imagery (B7) <input type="checkbox"/> Water-Stained Leaves (B9) | <input type="checkbox"/> Salt Crust (B11) <input type="checkbox"/> Biotic Crust (B12) <input type="checkbox"/> Aquatic Invertebrates (B13) <input type="checkbox"/> Hydrogen Sulfide Odor (C1) <input type="checkbox"/> Oxidized Rhizospheres along Living Roots (C3) <input type="checkbox"/> Presence of Reduced Iron (C4) <input type="checkbox"/> Recent Iron Reduction in Plowed Soils (C6) <input type="checkbox"/> Other (Explain in Remarks) | <p><u>Secondary Indicators (2 or more required)</u></p> <input type="checkbox"/> Water Marks (B1) (Riverine) <input type="checkbox"/> Sediment Deposits (B2) (Riverine) <input checked="" type="checkbox"/> Drift Deposits (B3) (Riverine) <input checked="" type="checkbox"/> Drainage Patterns (B10) <input type="checkbox"/> Dry-Season Water Table (C2) <input type="checkbox"/> Thin Muck Surface (C7) <input type="checkbox"/> Crayfish Burrows (C8) <input type="checkbox"/> Saturation Visible on Aerial Imagery (C9) <input type="checkbox"/> Shallow Aquitard (D3) <input type="checkbox"/> FAC-Neutral Test (D5) |
|---|---|---|

Field Observations:

Surface Water Present? Yes No Depth (inches): _____

Water Table Present? Yes No Depth (inches): _____

Saturation Present? (includes capillary fringe) Yes No Depth (inches): _____

Wetland Hydrology Present? Yes No

Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:

Remarks:

WETLAND DETERMINATION DATA FORM - Arid West Region

Project/Site: Campo Wind City/County: Campo/San Diego Sampling Date: 8/1/18&9/25/18
 Applicant/Owner: Various State: CA Sampling Point: DS 5a
 Investigator(s): S. Lawrence, B. Mulrooney, C. Amoaku, P. Sob Section, Township, Range: _____
 Landform (hillslope, terrace, etc.): basin Local relief (concave, convex, none): concave Slope (%): 0
 Subregion (LRR): C - Mediterranean California Lat: _____ Long: _____ Datum: _____
 Soil Map Unit Name: _____ NWI classification: _____

Are climatic / hydrologic conditions on the site typical for this time of year? Yes No (If no, explain in Remarks.)
 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 <input checked="" type="radio"/> No <input type="radio"/> Hydric Soil Present? Yes <input checked="" type="radio"/> No <input type="radio"/> Wetland Hydrology Present? Yes <input checked="" type="radio"/> No <input type="radio"/> | Is the Sampled Area within a Wetland? Yes <input checked="" type="radio"/> No <input type="radio"/> |
| Remarks: Sample point in collection basin in the sand pit area where sand and gravel has been excavated. | |

VEGETATION

| Tree Stratum (Use scientific names.) | Absolute % Cover | Dominant Species? | Indicator Status | Dominance Test worksheet: | |
|---|------------------|-------------------------|------------------|---|----------------|
| 1. <i>Salix lasiolepis</i> | 10 | Yes | FACW | Number of Dominant Species That Are OBL, FACW, or FAC: | 3 (A) |
| 2. <i>Tamarix (chinensis) ramosissima</i> | 1 | No | FAC | Total Number of Dominant Species Across All Strata: | 4 (B) |
| 3. <i>Salix exigua</i> | 1 | No | FACW | Percent of Dominant Species That Are OBL, FACW, or FAC: | 75.0 % (A/B) |
| 4. <i>Populus fremontii</i> | 1 | No | Not Listed | | |
| Total Cover: | 13 % | | | | |
| Sapling/Shrub Stratum | | | | Prevalence Index worksheet: | |
| 1. <i>Baccharis salicifolia</i> | 8 | Yes | FAC | Total % Cover of: | Multiply by: |
| 2. | | | | OBL species | x 1 = 0 |
| 3. | | | | FACW species | 26 x 2 = 52 |
| 4. | | | | FAC species | 15 x 3 = 45 |
| 5. | | | | FACU species | 3 x 4 = 12 |
| | 8 % | | | UPL species | 11 x 5 = 55 |
| Total Cover: | 8 % | | | Column Totals: | 55 (A) 164 (B) |
| Herb Stratum | | | | Prevalence Index = B/A = 2.98 | |
| 1. <i>Hirschfeldia incana</i> | 10 | Yes | Not Listed | Hydrophytic Vegetation Indicators: | |
| 2. <i>Persicaria lapathifolia</i> | 10 | Yes | FACW | <input checked="" type="checkbox"/> Dominance Test is >50% | |
| 3. <i>Rumex crispus</i> | 5 | No | FAC | <input checked="" type="checkbox"/> Prevalence Index is ≤3.0 ¹ | |
| 4. <i>Polypogon monspeliensis</i> | 5 | No | FACW | <input type="checkbox"/> Morphological Adaptations ¹ (Provide supporting data in Remarks or on a separate sheet) | |
| 5. <i>Xanthium strumarium</i> | 1 | No | FAC | <input type="checkbox"/> Problematic Hydrophytic Vegetation ¹ (Explain) | |
| 6. <i>Chenopodium album</i> | 1 | No | FACU | | |
| 7. <i>Heliotropium curassavicum</i> | 1 | No | FACU | | |
| 8. <i>Erigeron canadensis</i> | 1 | No | FACU | | |
| Total Cover: | 34 % | | | ¹ Indicators of hydric soil and wetland hydrology must be present. | |
| Woody Vine Stratum | | | | Hydrophytic Vegetation Present? Yes <input checked="" type="radio"/> No <input type="radio"/> | |
| 1. | | | | | |
| 2. | | | | | |
| Total Cover: | % | | | | |
| % Bare Ground in Herb Stratum | 50 % | % Cover of Biotic Crust | % | | |

Remarks:

SOIL

Sampling Point: DS 5a

Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)

| Depth (inches) | Matrix | | Redox Features | | | | Texture ³ | Remarks |
|-------------------|---------------|---|----------------|---|-------------------|------------------|----------------------|---------|
| | Color (moist) | % | Color (moist) | % | Type ¹ | Loc ² | | |
| | | | | | | | | |
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¹Type: C=Concentration, D=Depletion, RM=Reduced Matrix. ²Location: PL=Pore Lining, RC=Root Channel, M=Matrix.
³Soil Textures: Clay, Silty Clay, Sandy Clay, Loam, Sandy Clay Loam, Sandy Loam, Clay Loam, Silty Clay Loam, Silt Loam, Silt, Loamy Sand, Sand.

| | | |
|--|---|--|
| <p>Hydric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.)</p> <input type="checkbox"/> Histosol (A1) <input type="checkbox"/> Histic Epipedon (A2) <input type="checkbox"/> Black Histic (A3) <input type="checkbox"/> Hydrogen Sulfide (A4) <input type="checkbox"/> Stratified Layers (A5) (LRR C) <input type="checkbox"/> 1 cm Muck (A9) (LRR D) <input type="checkbox"/> Depleted Below Dark Surface (A11) <input type="checkbox"/> Thick Dark Surface (A12) <input type="checkbox"/> Sandy Mucky Mineral (S1) <input type="checkbox"/> Sandy Gleyed Matrix (S4) | <input type="checkbox"/> Sandy Redox (S5) <input type="checkbox"/> Stripped Matrix (S6) <input type="checkbox"/> Loamy Mucky Mineral (F1) <input type="checkbox"/> Loamy Gleyed Matrix (F2) <input type="checkbox"/> Depleted Matrix (F3) <input type="checkbox"/> Redox Dark Surface (F6) <input type="checkbox"/> Depleted Dark Surface (F7) <input type="checkbox"/> Redox Depressions (F8) <input type="checkbox"/> Vernal Pools (F9) | <p>Indicators for Problematic Hydric Soils:⁴</p> <input type="checkbox"/> 1 cm Muck (A9) (LRR C) <input type="checkbox"/> 2 cm Muck (A10) (LRR B) <input type="checkbox"/> Reduced Vertic (F18) <input type="checkbox"/> Red Parent Material (TF2) <input type="checkbox"/> Other (Explain in Remarks) |
|--|---|--|

⁴Indicators of hydrophytic vegetation and wetland hydrology must be present.

Restrictive Layer (if present):
 Type: _____
 Depth (inches): _____

Hydric Soil Present? Yes No

Remarks: Assumed hydric soils based on saturation and inundation on aerial

HYDROLOGY

| | | |
|---|---|--|
| <p>Wetland Hydrology Indicators:</p> <p>Primary Indicators (any one indicator is sufficient)</p> <input checked="" type="checkbox"/> Surface Water (A1) <input type="checkbox"/> High Water Table (A2) <input checked="" type="checkbox"/> Saturation (A3) <input type="checkbox"/> Water Marks (B1) (Nonriverine) <input type="checkbox"/> Sediment Deposits (B2) (Nonriverine) <input type="checkbox"/> Drift Deposits (B3) (Nonriverine) <input checked="" type="checkbox"/> Surface Soil Cracks (B6) <input checked="" type="checkbox"/> Inundation Visible on Aerial Imagery (B7) <input type="checkbox"/> Water-Stained Leaves (B9) | <input type="checkbox"/> Salt Crust (B11) <input type="checkbox"/> Biotic Crust (B12) <input type="checkbox"/> Aquatic Invertebrates (B13) <input type="checkbox"/> Hydrogen Sulfide Odor (C1) <input type="checkbox"/> Oxidized Rhizospheres along Living Roots (C3) <input type="checkbox"/> Presence of Reduced Iron (C4) <input type="checkbox"/> Recent Iron Reduction in Plowed Soils (C6) <input type="checkbox"/> Other (Explain in Remarks) | <p><u>Secondary Indicators (2 or more required)</u></p> <input type="checkbox"/> Water Marks (B1) (Riverine) <input type="checkbox"/> Sediment Deposits (B2) (Riverine) <input type="checkbox"/> Drift Deposits (B3) (Riverine) <input type="checkbox"/> Drainage Patterns (B10) <input type="checkbox"/> Dry-Season Water Table (C2) <input type="checkbox"/> Thin Muck Surface (C7) <input type="checkbox"/> Crayfish Burrows (C8) <input type="checkbox"/> Saturation Visible on Aerial Imagery (C9) <input type="checkbox"/> Shallow Aquitard (D3) <input checked="" type="checkbox"/> FAC-Neutral Test (D5) |
|---|---|--|

Field Observations:

| | | | |
|--|---|-----------------|-----------------|
| Surface Water Present? | Yes <input checked="" type="radio"/> No <input type="radio"/> | Depth (inches): | <u>4 inches</u> |
| Water Table Present? | Yes <input type="radio"/> No <input checked="" type="radio"/> | Depth (inches): | _____ |
| Saturation Present? (includes capillary fringe) | Yes <input type="radio"/> No <input checked="" type="radio"/> | Depth (inches): | _____ |

Wetland Hydrology Present? Yes No

Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:

Remarks:

WETLAND DETERMINATION DATA FORM - Arid West Region

Project/Site: Campo Wind City/County: Campo/San Diego Sampling Date: 9/25/2018
 Applicant/Owner: Various State: CA Sampling Point: DS 5b
 Investigator(s): Callie Amoaku, Patricia Schuyler Section, Township, Range: _____
 Landform (hillslope, terrace, etc.): basin Local relief (concave, convex, none): concave Slope (%): 0
 Subregion (LRR): C - Mediterranean California Lat: _____ Long: _____ Datum: _____
 Soil Map Unit Name: _____ NWI classification: _____

Are climatic / hydrologic conditions on the site typical for this time of year? Yes No (If no, explain in Remarks.)
 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 <input type="radio"/> No <input checked="" type="radio"/> Hydric Soil Present? Yes <input type="radio"/> No <input checked="" type="radio"/> Wetland Hydrology Present? Yes <input checked="" type="radio"/> No <input type="radio"/> | Is the Sampled Area within a Wetland? Yes <input type="radio"/> No <input checked="" type="radio"/> |
| Remarks: _____ | |

VEGETATION

| Tree Stratum (Use scientific names.) | Absolute % Cover | Dominant Species? | Indicator Status | | | | | | | | | | | | | | | | | | |
|---|------------------------------|-------------------|------------------|--|--|-------------------|--------------|-------------|----------------|--------------|----------------|-------------|-----------------|--------------|-----------------|-------------|-----------------|----------------|------------------------------|--------------------------------------|--|
| 1. _____ | | | | Dominance Test worksheet: Number of Dominant Species That Are OBL, FACW, or FAC: <u>0</u> (A) Total Number of Dominant Species Across All Strata: <u>1</u> (B) Percent of Dominant Species That Are OBL, FACW, or FAC: <u>0.0 %</u> (A/B) | | | | | | | | | | | | | | | | | |
| 2. _____ | | | | | | | | | | | | | | | | | | | | | |
| 3. _____ | | | | | | | | | | | | | | | | | | | | | |
| 4. _____ | | | | | | | | | | | | | | | | | | | | | |
| Total Cover: _____ % | | | | Prevalence Index worksheet: <table style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 50%;">Total % Cover of:</td> <td style="width: 50%;">Multiply by:</td> </tr> <tr> <td>OBL species</td> <td>x 1 = <u>0</u></td> </tr> <tr> <td>FACW species</td> <td>x 2 = <u>0</u></td> </tr> <tr> <td>FAC species</td> <td>x 3 = <u>15</u></td> </tr> <tr> <td>FACU species</td> <td>x 4 = <u>60</u></td> </tr> <tr> <td>UPL species</td> <td>x 5 = <u>50</u></td> </tr> <tr> <td>Column Totals:</td> <td><u>30</u> (A) <u>125</u> (B)</td> </tr> <tr> <td colspan="2" style="text-align: center;">Prevalence Index = B/A = <u>4.17</u></td> </tr> </table> | | Total % Cover of: | Multiply by: | OBL species | x 1 = <u>0</u> | FACW species | x 2 = <u>0</u> | FAC species | x 3 = <u>15</u> | FACU species | x 4 = <u>60</u> | UPL species | x 5 = <u>50</u> | Column Totals: | <u>30</u> (A) <u>125</u> (B) | Prevalence Index = B/A = <u>4.17</u> | |
| Total % Cover of: | Multiply by: | | | | | | | | | | | | | | | | | | | | |
| OBL species | x 1 = <u>0</u> | | | | | | | | | | | | | | | | | | | | |
| FACW species | x 2 = <u>0</u> | | | | | | | | | | | | | | | | | | | | |
| FAC species | x 3 = <u>15</u> | | | | | | | | | | | | | | | | | | | | |
| FACU species | x 4 = <u>60</u> | | | | | | | | | | | | | | | | | | | | |
| UPL species | x 5 = <u>50</u> | | | | | | | | | | | | | | | | | | | | |
| Column Totals: | <u>30</u> (A) <u>125</u> (B) | | | | | | | | | | | | | | | | | | | | |
| Prevalence Index = B/A = <u>4.17</u> | | | | | | | | | | | | | | | | | | | | | |
| Sapling/Shrub Stratum | | | | Hydrophytic Vegetation Indicators: <input checked="" type="checkbox"/> Dominance Test is >50% <input checked="" type="checkbox"/> Prevalence Index is ≤3.0 ¹ <input type="checkbox"/> Morphological Adaptations ¹ (Provide supporting data in Remarks or on a separate sheet) <input type="checkbox"/> Problematic Hydrophytic Vegetation ¹ (Explain) | | | | | | | | | | | | | | | | | |
| 1. <i>Ambrosia psilostachya</i> | 15 | Yes | FACU | | | | | | | | | | | | | | | | | | |
| 2. <i>Artemisia tridentata</i> | 10 | No | Not Listed | | | | | | | | | | | | | | | | | | |
| 3. <i>Baccharis salicifolia</i> | 5 | No | FAC | | | | | | | | | | | | | | | | | | |
| 4. _____ | | | | | | | | | | | | | | | | | | | | | |
| Total Cover: <u>30</u> % | | | | ¹ Indicators of hydric soil and wetland hydrology must be present. | | | | | | | | | | | | | | | | | |
| Herb Stratum | | | | | | | | | | | | | | | | | | | | | |
| 1. _____ | | | | Hydrophytic Vegetation Present? Yes <input type="radio"/> No <input checked="" type="radio"/> | | | | | | | | | | | | | | | | | |
| 2. _____ | | | | | | | | | | | | | | | | | | | | | |
| 3. _____ | | | | Hydrophytic Vegetation Present? Yes <input type="radio"/> No <input checked="" type="radio"/> | | | | | | | | | | | | | | | | | |
| 4. _____ | | | | | | | | | | | | | | | | | | | | | |
| 5. _____ | | | | Hydrophytic Vegetation Present? Yes <input type="radio"/> No <input checked="" type="radio"/> | | | | | | | | | | | | | | | | | |
| 6. _____ | | | | | | | | | | | | | | | | | | | | | |
| 7. _____ | | | | Hydrophytic Vegetation Present? Yes <input type="radio"/> No <input checked="" type="radio"/> | | | | | | | | | | | | | | | | | |
| 8. _____ | | | | | | | | | | | | | | | | | | | | | |
| Total Cover: _____ % | | | | Hydrophytic Vegetation Present? Yes <input type="radio"/> No <input checked="" type="radio"/> | | | | | | | | | | | | | | | | | |
| Woody Vine Stratum | | | | | | | | | | | | | | | | | | | | | |
| 1. _____ | | | | Hydrophytic Vegetation Present? Yes <input type="radio"/> No <input checked="" type="radio"/> | | | | | | | | | | | | | | | | | |
| 2. _____ | | | | | | | | | | | | | | | | | | | | | |
| Total Cover: _____ % | | | | Hydrophytic Vegetation Present? Yes <input type="radio"/> No <input checked="" type="radio"/> | | | | | | | | | | | | | | | | | |
| % Bare Ground in Herb Stratum _____ % % Cover of Biotic Crust _____ % | | | | | | | | | | | | | | | | | | | | | |

Remarks: _____

SOIL

Sampling Point: DS 5b

Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)

| Depth (inches) | Matrix | | Redox Features | | | | Texture ³ | Remarks |
|----------------|---------------|-----|----------------|---|-------------------|------------------|----------------------|---------|
| | Color (moist) | % | Color (moist) | % | Type ¹ | Loc ² | | |
| 0-4 | 10YR 4/4 | 100 | N/A | | | | sandy loam | |
| 4-16 | 10YR 3/4 | 100 | N/A | | | | clay loam | |
| | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |

¹Type: C=Concentration, D=Depletion, RM=Reduced Matrix. ²Location: PL=Pore Lining, RC=Root Channel, M=Matrix.
³Soil Textures: Clay, Silty Clay, Sandy Clay, Loam, Sandy Clay Loam, Sandy Loam, Clay Loam, Silty Clay Loam, Silt Loam, Silt, Loamy Sand, Sand.

| | | |
|--|---|--|
| <p>Hydric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.)</p> <input type="checkbox"/> Histosol (A1) <input type="checkbox"/> Histic Epipedon (A2) <input type="checkbox"/> Black Histic (A3) <input type="checkbox"/> Hydrogen Sulfide (A4) <input type="checkbox"/> Stratified Layers (A5) (LRR C) <input type="checkbox"/> 1 cm Muck (A9) (LRR D) <input type="checkbox"/> Depleted Below Dark Surface (A11) <input type="checkbox"/> Thick Dark Surface (A12) <input type="checkbox"/> Sandy Mucky Mineral (S1) <input type="checkbox"/> Sandy Gleyed Matrix (S4) | <input type="checkbox"/> Sandy Redox (S5) <input type="checkbox"/> Stripped Matrix (S6) <input type="checkbox"/> Loamy Mucky Mineral (F1) <input type="checkbox"/> Loamy Gleyed Matrix (F2) <input type="checkbox"/> Depleted Matrix (F3) <input type="checkbox"/> Redox Dark Surface (F6) <input type="checkbox"/> Depleted Dark Surface (F7) <input type="checkbox"/> Redox Depressions (F8) <input type="checkbox"/> Vernal Pools (F9) | <p>Indicators for Problematic Hydric Soils:⁴</p> <input type="checkbox"/> 1 cm Muck (A9) (LRR C) <input type="checkbox"/> 2 cm Muck (A10) (LRR B) <input type="checkbox"/> Reduced Vertic (F18) <input type="checkbox"/> Red Parent Material (TF2) <input type="checkbox"/> Other (Explain in Remarks) |
|--|---|--|

⁴Indicators of hydrophytic vegetation and wetland hydrology must be present.

Restrictive Layer (if present):
 Type: _____
 Depth (inches): _____

Remarks: _____

Hydric Soil Present? Yes No

HYDROLOGY

| | | |
|---|---|--|
| <p>Wetland Hydrology Indicators:</p> <p>Primary Indicators (any one indicator is sufficient)</p> <input type="checkbox"/> Surface Water (A1) <input type="checkbox"/> High Water Table (A2) <input type="checkbox"/> Saturation (A3) <input type="checkbox"/> Water Marks (B1) (Nonriverine) <input type="checkbox"/> Sediment Deposits (B2) (Nonriverine) <input checked="" type="checkbox"/> Drift Deposits (B3) (Nonriverine) <input type="checkbox"/> Surface Soil Cracks (B6) <input checked="" type="checkbox"/> Inundation Visible on Aerial Imagery (B7) <input type="checkbox"/> Water-Stained Leaves (B9) | <input type="checkbox"/> Salt Crust (B11) <input type="checkbox"/> Biotic Crust (B12) <input type="checkbox"/> Aquatic Invertebrates (B13) <input type="checkbox"/> Hydrogen Sulfide Odor (C1) <input type="checkbox"/> Oxidized Rhizospheres along Living Roots (C3) <input type="checkbox"/> Presence of Reduced Iron (C4) <input type="checkbox"/> Recent Iron Reduction in Plowed Soils (C6) <input type="checkbox"/> Other (Explain in Remarks) | <p><u>Secondary Indicators (2 or more required)</u></p> <input type="checkbox"/> Water Marks (B1) (Riverine) <input type="checkbox"/> Sediment Deposits (B2) (Riverine) <input type="checkbox"/> Drift Deposits (B3) (Riverine) <input checked="" type="checkbox"/> Drainage Patterns (B10) <input type="checkbox"/> Dry-Season Water Table (C2) <input type="checkbox"/> Thin Muck Surface (C7) <input type="checkbox"/> Crayfish Burrows (C8) <input type="checkbox"/> Saturation Visible on Aerial Imagery (C9) <input type="checkbox"/> Shallow Aquitard (D3) <input type="checkbox"/> FAC-Neutral Test (D5) |
|---|---|--|

Field Observations:

| | | |
|---|---|-----------------------|
| Surface Water Present? | Yes <input type="radio"/> No <input checked="" type="radio"/> | Depth (inches): _____ |
| Water Table Present? | Yes <input type="radio"/> No <input checked="" type="radio"/> | Depth (inches): _____ |
| Saturation Present? (includes capillary fringe) | Yes <input type="radio"/> No <input checked="" type="radio"/> | Depth (inches): _____ |

Wetland Hydrology Present? Yes No

Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:

Remarks:

WETLAND DETERMINATION DATA FORM - Arid West Region

Project/Site: Campo Wind City/County: Campo/San Diego Sampling Date: 8/2/18&9/25/18
 Applicant/Owner: Various State: CA Sampling Point: DS 6a
 Investigator(s): S. Lawrence, C. Amoaku, P. Schuyler Section, Township, Range: _____
 Landform (hillslope, terrace, etc.): _____ Local relief (concave, convex, none): None Slope (%): _____
 Subregion (LRR): C - Mediterranean California Lat: _____ Long: _____ Datum: _____
 Soil Map Unit Name: _____ NWI classification: _____

Are climatic / hydrologic conditions on the site typical for this time of year? Yes No (If no, explain in Remarks.)
 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 <input type="radio"/> No <input checked="" type="radio"/> Hydric Soil Present? Yes <input type="radio"/> No <input checked="" type="radio"/> Wetland Hydrology Present? Yes <input checked="" type="radio"/> No <input type="radio"/> | Is the Sampled Area within a Wetland? Yes <input type="radio"/> No <input checked="" type="radio"/> |
| Remarks: _____ | |

VEGETATION

| Tree Stratum (Use scientific names.) | Absolute % Cover | Dominant Species? | Indicator Status | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|--|------------------|-------------------|---------------------------------|--|-------------------|--|--------------|--|-------------|--|-------|---|--------------|----|-------|----|-------------|----|-------|-----|--------------|---|-------|---|-------------|----|-------|-----|----------------|----|-----|-----|--------------------------|--|--|------|
| 1. <i>Salix lasiolepis</i> | 20 | Yes | FACW | Dominance Test worksheet: Number of Dominant Species That Are OBL, FACW, or FAC: 3 (A) Total Number of Dominant Species Across All Strata: 6 (B) Percent of Dominant Species That Are OBL, FACW, or FAC: 50.0 % (A/B) | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 2. <i>Populus fremontii</i> | 5 | No | Not Listed | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 3. <i>Tamarix (chinensis) ramosissima</i> | 1 | No | FAC | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 4. _____ | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Total Cover: 26 % | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Sapling/Shrub Stratum | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 1. <i>Baccharis salicifolia</i> | 30 | Yes | FAC | Prevalence Index worksheet: <table style="width: 100%; border-collapse: collapse;"> <tr> <td style="text-align: right;">Total % Cover of:</td> <td style="width: 20px;"></td> <td style="text-align: right;">Multiply by:</td> <td></td> </tr> <tr> <td>OBL species</td> <td style="background-color: #cccccc;"></td> <td>x 1 =</td> <td style="background-color: #cccccc;">0</td> </tr> <tr> <td>FACW species</td> <td style="text-align: center;">20</td> <td>x 2 =</td> <td style="background-color: #cccccc;">40</td> </tr> <tr> <td>FAC species</td> <td style="text-align: center;">36</td> <td>x 3 =</td> <td style="background-color: #cccccc;">108</td> </tr> <tr> <td>FACU species</td> <td style="text-align: center;">1</td> <td>x 4 =</td> <td style="background-color: #cccccc;">4</td> </tr> <tr> <td>UPL species</td> <td style="text-align: center;">26</td> <td>x 5 =</td> <td style="background-color: #cccccc;">130</td> </tr> <tr> <td>Column Totals:</td> <td style="text-align: center;">83</td> <td>(A)</td> <td style="background-color: #cccccc;">282</td> (B) </tr> <tr> <td colspan="2" style="text-align: right;">Prevalence Index = B/A =</td> <td></td> <td style="background-color: #cccccc;">3.40</td> </tr> </table> | Total % Cover of: | | Multiply by: | | OBL species | | x 1 = | 0 | FACW species | 20 | x 2 = | 40 | FAC species | 36 | x 3 = | 108 | FACU species | 1 | x 4 = | 4 | UPL species | 26 | x 5 = | 130 | Column Totals: | 83 | (A) | 282 | Prevalence Index = B/A = | | | 3.40 |
| Total % Cover of: | | Multiply by: | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| OBL species | | x 1 = | 0 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| FACW species | 20 | x 2 = | 40 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| FAC species | 36 | x 3 = | 108 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| FACU species | 1 | x 4 = | 4 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| UPL species | 26 | x 5 = | 130 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Column Totals: | 83 | (A) | 282 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Prevalence Index = B/A = | | | 3.40 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 2. _____ | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 3. _____ | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 4. _____ | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 5. _____ | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Total Cover: 30 % | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Herb Stratum | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 1. <i>Artemisia tridentata</i> | 10 | Yes | Not Listed | Hydrophytic Vegetation Indicators: <input checked="" type="checkbox"/> Dominance Test is >50% <input checked="" type="checkbox"/> Prevalence Index is ≤3.0 ¹ <input type="checkbox"/> Morphological Adaptations ¹ (Provide supporting data in Remarks or on a separate sheet) <input type="checkbox"/> Problematic Hydrophytic Vegetation ¹ (Explain) ¹ Indicators of hydric soil and wetland hydrology must be present. | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 2. <i>Artemisia dracunculus</i> | 5 | Yes | Not Listed | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 3. <i>Medicago lupulina</i> | 5 | Yes | FAC | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 4. <i>Schismus barbatus</i> | 5 | Yes | Not Listed | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 5. <i>Gutierrezia californica</i> | 1 | No | Not Listed | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 6. <i>Erigeron canadensis</i> | 1 | No | FACU | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 7. _____ | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 8. _____ | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Total Cover: 27 % | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Woody Vine Stratum | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 1. _____ | | | | Hydrophytic Vegetation Present? Yes <input type="radio"/> No <input checked="" type="radio"/> | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 2. _____ | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Total Cover: % | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| % Bare Ground in Herb Stratum 50 % | % | | % Cover of Biotic Crust _____ % | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

Remarks: _____

SOIL

Sampling Point: DS 6a

Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)

| Depth (inches) | Matrix | | Redox Features | | | | Texture ³ | Remarks |
|-------------------|---------------|-----|----------------|---|-------------------|------------------|----------------------|---------|
| | Color (moist) | % | Color (moist) | % | Type ¹ | Loc ² | | |
| 0-16 | 10YR 5/4 | 100 | N/A | | | | sand | |
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¹Type: C=Concentration, D=Depletion, RM=Reduced Matrix. ²Location: PL=Pore Lining, RC=Root Channel, M=Matrix.
³Soil Textures: Clay, Silty Clay, Sandy Clay, Loam, Sandy Clay Loam, Sandy Loam, Clay Loam, Silty Clay Loam, Silt Loam, Silt, Loamy Sand, Sand.

| | | |
|--|---|--|
| <p>Hydric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.)</p> <input type="checkbox"/> Histosol (A1) <input type="checkbox"/> Histic Epipedon (A2) <input type="checkbox"/> Black Histic (A3) <input type="checkbox"/> Hydrogen Sulfide (A4) <input type="checkbox"/> Stratified Layers (A5) (LRR C) <input type="checkbox"/> 1 cm Muck (A9) (LRR D) <input type="checkbox"/> Depleted Below Dark Surface (A11) <input type="checkbox"/> Thick Dark Surface (A12) <input type="checkbox"/> Sandy Mucky Mineral (S1) <input type="checkbox"/> Sandy Gleyed Matrix (S4) | <input type="checkbox"/> Sandy Redox (S5) <input type="checkbox"/> Stripped Matrix (S6) <input type="checkbox"/> Loamy Mucky Mineral (F1) <input type="checkbox"/> Loamy Gleyed Matrix (F2) <input type="checkbox"/> Depleted Matrix (F3) <input type="checkbox"/> Redox Dark Surface (F6) <input type="checkbox"/> Depleted Dark Surface (F7) <input type="checkbox"/> Redox Depressions (F8) <input type="checkbox"/> Vernal Pools (F9) | <p>Indicators for Problematic Hydric Soils:⁴</p> <input type="checkbox"/> 1 cm Muck (A9) (LRR C) <input type="checkbox"/> 2 cm Muck (A10) (LRR B) <input type="checkbox"/> Reduced Vertic (F18) <input type="checkbox"/> Red Parent Material (TF2) <input type="checkbox"/> Other (Explain in Remarks) |
|--|---|--|

⁴Indicators of hydrophytic vegetation and wetland hydrology must be present.

| | |
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| <p>Restrictive Layer (if present):</p> Type: _____ Depth (inches): _____ Remarks: _____ | <p>Hydric Soil Present? Yes <input type="radio"/> No <input checked="" type="radio"/></p> |
|--|--|

HYDROLOGY

| | | |
|---|---|---|
| <p>Wetland Hydrology Indicators:</p> <p>Primary Indicators (any one indicator is sufficient)</p> <input type="checkbox"/> Surface Water (A1) <input type="checkbox"/> High Water Table (A2) <input checked="" type="checkbox"/> Saturation (A3) <input checked="" type="checkbox"/> Water Marks (B1) (Nonriverine) <input checked="" type="checkbox"/> Sediment Deposits (B2) (Nonriverine) <input checked="" type="checkbox"/> Drift Deposits (B3) (Nonriverine) <input checked="" type="checkbox"/> Surface Soil Cracks (B6) <input checked="" type="checkbox"/> Inundation Visible on Aerial Imagery (B7) <input type="checkbox"/> Water-Stained Leaves (B9) | <input type="checkbox"/> Salt Crust (B11) <input type="checkbox"/> Biotic Crust (B12) <input type="checkbox"/> Aquatic Invertebrates (B13) <input type="checkbox"/> Hydrogen Sulfide Odor (C1) <input type="checkbox"/> Oxidized Rhizospheres along Living Roots (C3) <input type="checkbox"/> Presence of Reduced Iron (C4) <input type="checkbox"/> Recent Iron Reduction in Plowed Soils (C6) <input type="checkbox"/> Other (Explain in Remarks) | <p><u>Secondary Indicators (2 or more required)</u></p> <input type="checkbox"/> Water Marks (B1) (Riverine) <input type="checkbox"/> Sediment Deposits (B2) (Riverine) <input type="checkbox"/> Drift Deposits (B3) (Riverine) <input type="checkbox"/> Drainage Patterns (B10) <input type="checkbox"/> Dry-Season Water Table (C2) <input type="checkbox"/> Thin Muck Surface (C7) <input type="checkbox"/> Crayfish Burrows (C8) <input type="checkbox"/> Saturation Visible on Aerial Imagery (C9) <input type="checkbox"/> Shallow Aquitard (D3) <input type="checkbox"/> FAC-Neutral Test (D5) |
|---|---|---|

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| <p>Field Observations:</p> Surface Water Present? Yes <input type="radio"/> No <input checked="" type="radio"/> Depth (inches): _____ Water Table Present? Yes <input type="radio"/> No <input checked="" type="radio"/> Depth (inches): _____ Saturation Present? (includes capillary fringe) Yes <input checked="" type="radio"/> No <input type="radio"/> Depth (inches): _____ | <p>Wetland Hydrology Present? Yes <input checked="" type="radio"/> No <input type="radio"/></p> |
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Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:

Remarks:

WETLAND DETERMINATION DATA FORM - Arid West Region

Project/Site: Campo Wind City/County: Campo/San Diego Sampling Date: 9/25/2018
 Applicant/Owner: Various State: CA Sampling Point: DS 6b
 Investigator(s): Callie Amoaku, Patricia Schuyler Section, Township, Range: _____
 Landform (hillslope, terrace, etc.): basin Local relief (concave, convex, none): concave Slope (%): 0
 Subregion (LRR): C - Mediterranean California Lat: _____ Long: _____ Datum: _____
 Soil Map Unit Name: _____ NWI classification: _____

Are climatic / hydrologic conditions on the site typical for this time of year? Yes No (If no, explain in Remarks.)
 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 <input type="radio"/> No <input checked="" type="radio"/> Hydric Soil Present? Yes <input checked="" type="radio"/> No <input type="radio"/> Wetland Hydrology Present? Yes <input checked="" type="radio"/> No <input type="radio"/> | Is the Sampled Area within a Wetland? Yes <input type="radio"/> No <input checked="" type="radio"/> |
| Remarks: <u>Small depression in overall basin that collects water for longer periods of time.</u> | |

VEGETATION

| Tree Stratum (Use scientific names.) | Absolute % Cover | Dominant Species? | Indicator Status | Dominance Test worksheet: | |
|---|------------------|-------------------|-------------------|---|-----------------------------|
| 1. _____ | _____ | _____ | _____ | Number of Dominant Species That Are OBL, FACW, or FAC: | <u>0</u> (A) |
| 2. _____ | _____ | _____ | _____ | Total Number of Dominant Species Across All Strata: | <u>5</u> (B) |
| 3. _____ | _____ | _____ | _____ | Percent of Dominant Species That Are OBL, FACW, or FAC: | <u>0.0 %</u> (A/B) |
| 4. _____ | _____ | _____ | _____ | | |
| Total Cover: _____ % | | | | | |
| Sapling/Shrub Stratum | | | | Prevalence Index worksheet: | |
| 1. <u>Artemisia dracuncululus</u> | <u>2</u> | <u>Yes</u> | <u>Not Listed</u> | Total % Cover of: _____ Multiply by: _____ | |
| 2. <u>Artemisia tridentata</u> | <u>2</u> | <u>Yes</u> | <u>Not Listed</u> | OBL species | <u>0</u> |
| 3. _____ | _____ | _____ | _____ | FACW species | <u>0</u> |
| 4. _____ | _____ | _____ | _____ | FAC species | <u>0</u> |
| 5. _____ | _____ | _____ | _____ | FACU species | <u>4</u> |
| Total Cover: <u>4 %</u> | | | | UPL species | <u>95</u> |
| Herb Stratum | | | | Column Totals: | <u>20</u> (A) <u>99</u> (B) |
| 1. <u>Hirschfeldia incana</u> | <u>5</u> | <u>Yes</u> | <u>Not Listed</u> | Prevalence Index = B/A = <u>4.95</u> | |
| 2. <u>Bromus madritensis</u> | <u>5</u> | <u>Yes</u> | <u>UPL</u> | | |
| 3. <u>Schismus barbatus</u> | <u>5</u> | <u>Yes</u> | <u>Not Listed</u> | | |
| 4. <u>Heliotropium curassavicum</u> | <u>1</u> | <u>No</u> | <u>FACU</u> | | |
| 5. _____ | _____ | _____ | _____ | | |
| 6. _____ | _____ | _____ | _____ | | |
| 7. _____ | _____ | _____ | _____ | | |
| 8. _____ | _____ | _____ | _____ | | |
| Total Cover: <u>16 %</u> | | | | | |
| Woody Vine Stratum | | | | Hydrophytic Vegetation Indicators: | |
| 1. _____ | _____ | _____ | _____ | <input checked="" type="checkbox"/> Dominance Test is >50% | |
| 2. _____ | _____ | _____ | _____ | <input checked="" type="checkbox"/> Prevalence Index is ≤3.0 ¹ | |
| Total Cover: _____ % | | | | <input type="checkbox"/> Morphological Adaptations ¹ (Provide supporting data in Remarks or on a separate sheet) | |
| Total Cover: _____ % | | | | <input type="checkbox"/> Problematic Hydrophytic Vegetation ¹ (Explain) | |
| % Bare Ground in Herb Stratum <u>80 %</u> | | | | ¹ Indicators of hydric soil and wetland hydrology must be present. | |
| % Cover of Biotic Crust _____ % | | | | Hydrophytic Vegetation Present? Yes <input type="radio"/> No <input checked="" type="radio"/> | |

Remarks: _____

SOIL

Sampling Point: DS 6b

Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)

| Depth (inches) | Matrix | | Redox Features | | | Loc ² | Texture ³ | Remarks |
|----------------|---------------|----|----------------|---|-------------------|------------------|----------------------|---------|
| | Color (moist) | % | Color (moist) | % | Type ¹ | | | |
| 0-6 | 2.5YR 6/3 | 95 | 7.5YR 5/8 | 5 | C | PL | clay loam | |
| 6-16 | 2.5YR 6/3 | 70 | 5YR 5/6 | 5 | C | PL | clay loam | |
| 6-16 | 2.5YR 3/2 | 20 | 5YR 5/6 | 5 | C | PL | clay loam | |
| | | | | | | | | |
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¹Type: C=Concentration, D=Depletion, RM=Reduced Matrix. ²Location: PL=Pore Lining, RC=Root Channel, M=Matrix.
³Soil Textures: Clay, Silty Clay, Sandy Clay, Loam, Sandy Clay Loam, Sandy Loam, Clay Loam, Silty Clay Loam, Silt Loam, Silt, Loamy Sand, Sand.

| | | | |
|--|--|--|--|
| Hydric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.) <input type="checkbox"/> Histosol (A1) <input type="checkbox"/> Histic Epipedon (A2) <input type="checkbox"/> Black Histic (A3) <input type="checkbox"/> Hydrogen Sulfide (A4) <input type="checkbox"/> Stratified Layers (A5) (LRR C) <input type="checkbox"/> 1 cm Muck (A9) (LRR D) <input type="checkbox"/> Depleted Below Dark Surface (A11) <input type="checkbox"/> Thick Dark Surface (A12) <input type="checkbox"/> Sandy Mucky Mineral (S1) <input type="checkbox"/> Sandy Gleyed Matrix (S4) | | <input type="checkbox"/> Sandy Redox (S5) <input type="checkbox"/> Stripped Matrix (S6) <input type="checkbox"/> Loamy Mucky Mineral (F1) <input type="checkbox"/> Loamy Gleyed Matrix (F2) <input type="checkbox"/> Depleted Matrix (F3) <input type="checkbox"/> Redox Dark Surface (F6) <input type="checkbox"/> Depleted Dark Surface (F7) <input checked="" type="checkbox"/> Redox Depressions (F8) <input type="checkbox"/> Vernal Pools (F9) | Indicators for Problematic Hydric Soils:⁴ <input type="checkbox"/> 1 cm Muck (A9) (LRR C) <input type="checkbox"/> 2 cm Muck (A10) (LRR B) <input type="checkbox"/> Reduced Vertic (F18) <input type="checkbox"/> Red Parent Material (TF2) <input type="checkbox"/> Other (Explain in Remarks) |
|--|--|--|--|

⁴Indicators of hydrophytic vegetation and wetland hydrology must be present.

Restrictive Layer (if present):
 Type: _____
 Depth (inches): _____

Hydric Soil Present? Yes No

Remarks: _____

HYDROLOGY

| | | |
|--|--|---|
| Wetland Hydrology Indicators: Primary Indicators (any one indicator is sufficient) <input type="checkbox"/> Surface Water (A1) <input type="checkbox"/> High Water Table (A2) <input type="checkbox"/> Saturation (A3) <input type="checkbox"/> Water Marks (B1) (Nonriverine) <input type="checkbox"/> Sediment Deposits (B2) (Nonriverine) <input type="checkbox"/> Drift Deposits (B3) (Nonriverine) <input type="checkbox"/> Surface Soil Cracks (B6) <input checked="" type="checkbox"/> Inundation Visible on Aerial Imagery (B7) <input type="checkbox"/> Water-Stained Leaves (B9) | <input type="checkbox"/> Salt Crust (B11) <input type="checkbox"/> Biotic Crust (B12) <input type="checkbox"/> Aquatic Invertebrates (B13) <input type="checkbox"/> Hydrogen Sulfide Odor (C1) <input checked="" type="checkbox"/> Oxidized Rhizospheres along Living Roots (C3) <input type="checkbox"/> Presence of Reduced Iron (C4) <input type="checkbox"/> Recent Iron Reduction in Plowed Soils (C6) <input type="checkbox"/> Other (Explain in Remarks) | Secondary Indicators (2 or more required) <input type="checkbox"/> Water Marks (B1) (Riverine) <input type="checkbox"/> Sediment Deposits (B2) (Riverine) <input type="checkbox"/> Drift Deposits (B3) (Riverine) <input type="checkbox"/> Drainage Patterns (B10) <input type="checkbox"/> Dry-Season Water Table (C2) <input type="checkbox"/> Thin Muck Surface (C7) <input type="checkbox"/> Crayfish Burrows (C8) <input type="checkbox"/> Saturation Visible on Aerial Imagery (C9) <input type="checkbox"/> Shallow Aquitard (D3) <input type="checkbox"/> FAC-Neutral Test (D5) |
|--|--|---|

Field Observations:

| | | |
|---|---|-----------------------|
| Surface Water Present? | Yes <input type="radio"/> No <input checked="" type="radio"/> | Depth (inches): _____ |
| Water Table Present? | Yes <input type="radio"/> No <input checked="" type="radio"/> | Depth (inches): _____ |
| Saturation Present? (includes capillary fringe) | Yes <input type="radio"/> No <input checked="" type="radio"/> | Depth (inches): _____ |

Wetland Hydrology Present? Yes No

Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available: _____

Remarks: _____

WETLAND DETERMINATION DATA FORM - Arid West Region

Project/Site: Campo Wind City/County: Campo/San Diego Sampling Date: 8/2/18&9/25/18
 Applicant/Owner: Various State: CA Sampling Point: DS 7a
 Investigator(s): S. Lawrence, C. Amoaku, P. Schuyler Section, Township, Range: _____
 Landform (hillslope, terrace, etc.): _____ Local relief (concave, convex, none): None Slope (%): _____
 Subregion (LRR): C - Mediterranean California Lat: _____ Long: _____ Datum: _____
 Soil Map Unit Name: _____ NWI classification: _____

Are climatic / hydrologic conditions on the site typical for this time of year? Yes No (If no, explain in Remarks.)
 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 <input checked="" type="radio"/> No <input type="radio"/> Hydric Soil Present? Yes <input checked="" type="radio"/> No <input type="radio"/> Wetland Hydrology Present? Yes <input checked="" type="radio"/> No <input type="radio"/> | Is the Sampled Area within a Wetland? Yes <input checked="" type="radio"/> No <input type="radio"/> |
| Remarks: Sample point in collection basin in the sand pit area where sand and gravel has been excavated. | |

VEGETATION

| Tree Stratum (Use scientific names.) | Absolute % Cover | Dominant Species? | Indicator Status | Dominance Test worksheet: | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|---|---------------------------------|-------------------|------------------|--|--|-------------------|--|--------------|--|-------------|---|-------|---|--------------|----|-------|-----|-------------|----|-------|----|--------------|---|-------|---|-------------|---|-------|----|----------------|-----------|-----|------------|-----|--------------------------|--|--|--|-------------|
| 1. <i>Salix lasiolepis</i> | 40 | Yes | FACW | Number of Dominant Species That Are OBL, FACW, or FAC: <u>7</u> (A) | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 2. <i>Salix exigua</i> | 20 | Yes | FACW | Total Number of Dominant Species Across All Strata: <u>8</u> (B) | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 3. <i>Tamarix (chinensis) ramosissima</i> | 10 | No | FAC | Percent of Dominant Species That Are OBL, FACW, or FAC: <u>87.5 %</u> (A/B) | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 4. <i>Populus fremontii</i> | 1 | No | Not Listed | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Total Cover: | <u>71 %</u> | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Sapling/Shrub Stratum | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 1. <i>Baccharis salicifolia</i> | 2 | Yes | FAC | Prevalence Index worksheet: <table style="width:100%; border-collapse: collapse;"> <tr> <td align="center" colspan="2">Total % Cover of:</td> <td align="center" colspan="2">Multiply by:</td> </tr> <tr> <td>OBL species</td> <td align="center">1</td> <td>x 1 =</td> <td align="center">1</td> </tr> <tr> <td>FACW species</td> <td align="center">61</td> <td>x 2 =</td> <td align="center">122</td> </tr> <tr> <td>FAC species</td> <td align="center">14</td> <td>x 3 =</td> <td align="center">42</td> </tr> <tr> <td>FACU species</td> <td align="center">1</td> <td>x 4 =</td> <td align="center">4</td> </tr> <tr> <td>UPL species</td> <td align="center">2</td> <td>x 5 =</td> <td align="center">10</td> </tr> <tr> <td>Column Totals:</td> <td align="center"><u>79</u></td> <td align="center">(A)</td> <td align="center"><u>179</u></td> <td align="center">(B)</td> </tr> <tr> <td align="center" colspan="4">Prevalence Index = B/A =</td> <td align="center"><u>2.27</u></td> </tr> </table> | | Total % Cover of: | | Multiply by: | | OBL species | 1 | x 1 = | 1 | FACW species | 61 | x 2 = | 122 | FAC species | 14 | x 3 = | 42 | FACU species | 1 | x 4 = | 4 | UPL species | 2 | x 5 = | 10 | Column Totals: | <u>79</u> | (A) | <u>179</u> | (B) | Prevalence Index = B/A = | | | | <u>2.27</u> |
| Total % Cover of: | | Multiply by: | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| OBL species | 1 | x 1 = | 1 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| FACW species | 61 | x 2 = | 122 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| FAC species | 14 | x 3 = | 42 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| FACU species | 1 | x 4 = | 4 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| UPL species | 2 | x 5 = | 10 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Column Totals: | <u>79</u> | (A) | <u>179</u> | (B) | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Prevalence Index = B/A = | | | | <u>2.27</u> | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 2. <i>Artemisia tridentata</i> | 1 | No | Not Listed | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 3. | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 4. | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 5. | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Total Cover: | <u>3 %</u> | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Herb Stratum | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 1. <i>Erigeron canadensis</i> | 1 | Yes | FACU | Hydrophytic Vegetation Indicators: <input checked="" type="checkbox"/> Dominance Test is >50% <input checked="" type="checkbox"/> Prevalence Index is ≤3.0 ¹ <input type="checkbox"/> Morphological Adaptations ¹ (Provide supporting data in Remarks or on a separate sheet) <input type="checkbox"/> Problematic Hydrophytic Vegetation ¹ (Explain) ¹ Indicators of hydric soil and wetland hydrology must be present. | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 2. <i>Rumex crispus</i> | 1 | Yes | FAC | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 3. <i>Xanthium strumarium</i> | 1 | Yes | FAC | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 4. <i>Polypogon monspeliensis</i> | 1 | Yes | FACW | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 5. <i>Typha sp. (dead)</i> | 1 | Yes | OBL | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 6. | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 7. | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 8. | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Total Cover: | <u>5 %</u> | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Woody Vine Stratum | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 1. | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 2. | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Total Cover: | _____ % | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| % Bare Ground in Herb Stratum <u>50 %</u> | % Cover of Biotic Crust _____ % | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

Remarks:

SOIL

Sampling Point: DS 7a

Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)

| Depth (inches) | Matrix | | Redox Features | | | | Texture ³ | Remarks |
|-------------------|---------------|---|----------------|---|-------------------|------------------|----------------------|---------|
| | Color (moist) | % | Color (moist) | % | Type ¹ | Loc ² | | |
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¹Type: C=Concentration, D=Depletion, RM=Reduced Matrix. ²Location: PL=Pore Lining, RC=Root Channel, M=Matrix.
³Soil Textures: Clay, Silty Clay, Sandy Clay, Loam, Sandy Clay Loam, Sandy Loam, Clay Loam, Silty Clay Loam, Silt Loam, Silt, Loamy Sand, Sand.

| | | |
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| <p>Hydric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.)</p> <input type="checkbox"/> Histosol (A1) <input type="checkbox"/> Histic Epipedon (A2) <input type="checkbox"/> Black Histic (A3) <input type="checkbox"/> Hydrogen Sulfide (A4) <input type="checkbox"/> Stratified Layers (A5) (LRR C) <input type="checkbox"/> 1 cm Muck (A9) (LRR D) <input type="checkbox"/> Depleted Below Dark Surface (A11) <input type="checkbox"/> Thick Dark Surface (A12) <input type="checkbox"/> Sandy Mucky Mineral (S1) <input type="checkbox"/> Sandy Gleyed Matrix (S4) | <input type="checkbox"/> Sandy Redox (S5) <input type="checkbox"/> Stripped Matrix (S6) <input type="checkbox"/> Loamy Mucky Mineral (F1) <input type="checkbox"/> Loamy Gleyed Matrix (F2) <input type="checkbox"/> Depleted Matrix (F3) <input type="checkbox"/> Redox Dark Surface (F6) <input type="checkbox"/> Depleted Dark Surface (F7) <input type="checkbox"/> Redox Depressions (F8) <input type="checkbox"/> Vernal Pools (F9) | <p>Indicators for Problematic Hydric Soils:⁴</p> <input type="checkbox"/> 1 cm Muck (A9) (LRR C) <input type="checkbox"/> 2 cm Muck (A10) (LRR B) <input type="checkbox"/> Reduced Vertic (F18) <input type="checkbox"/> Red Parent Material (TF2) <input type="checkbox"/> Other (Explain in Remarks) |
|--|---|--|

⁴Indicators of hydrophytic vegetation and wetland hydrology must be present.

| | |
|--|--|
| <p>Restrictive Layer (if present):</p> Type: _____ Depth (inches): _____ | <p>Hydric Soil Present? Yes <input checked="" type="radio"/> No <input type="radio"/></p> |
|--|--|

Remarks: Assumed hydric soils based on ponded water.

HYDROLOGY

| | | |
|--|---|--|
| <p>Wetland Hydrology Indicators:</p> <p>Primary Indicators (any one indicator is sufficient)</p> <input checked="" type="checkbox"/> Surface Water (A1) <input type="checkbox"/> High Water Table (A2) <input checked="" type="checkbox"/> Saturation (A3) <input type="checkbox"/> Water Marks (B1) (Nonriverine) <input type="checkbox"/> Sediment Deposits (B2) (Nonriverine) <input type="checkbox"/> Drift Deposits (B3) (Nonriverine) <input type="checkbox"/> Surface Soil Cracks (B6) <input checked="" type="checkbox"/> Inundation Visible on Aerial Imagery (B7) <input type="checkbox"/> Water-Stained Leaves (B9) | <input type="checkbox"/> Salt Crust (B11) <input type="checkbox"/> Biotic Crust (B12) <input type="checkbox"/> Aquatic Invertebrates (B13) <input type="checkbox"/> Hydrogen Sulfide Odor (C1) <input type="checkbox"/> Oxidized Rhizospheres along Living Roots (C3) <input type="checkbox"/> Presence of Reduced Iron (C4) <input type="checkbox"/> Recent Iron Reduction in Plowed Soils (C6) <input type="checkbox"/> Other (Explain in Remarks) | <p><u>Secondary Indicators (2 or more required)</u></p> <input type="checkbox"/> Water Marks (B1) (Riverine) <input type="checkbox"/> Sediment Deposits (B2) (Riverine) <input type="checkbox"/> Drift Deposits (B3) (Riverine) <input type="checkbox"/> Drainage Patterns (B10) <input type="checkbox"/> Dry-Season Water Table (C2) <input type="checkbox"/> Thin Muck Surface (C7) <input type="checkbox"/> Crayfish Burrows (C8) <input type="checkbox"/> Saturation Visible on Aerial Imagery (C9) <input type="checkbox"/> Shallow Aquitard (D3) <input checked="" type="checkbox"/> FAC-Neutral Test (D5) |
|--|---|--|

| | |
|---|--|
| <p>Field Observations:</p> Surface Water Present? Yes <input checked="" type="radio"/> No <input type="radio"/> Depth (inches): <u>unknown</u> Water Table Present? Yes <input type="radio"/> No <input checked="" type="radio"/> Depth (inches): _____ Saturation Present? (includes capillary fringe) Yes <input type="radio"/> No <input checked="" type="radio"/> Depth (inches): _____ | <p>Wetland Hydrology Present? Yes <input checked="" type="radio"/> No <input type="radio"/></p> |
|---|--|

Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:

Remarks:

WETLAND DETERMINATION DATA FORM - Arid West Region

Project/Site: Campo Wind City/County: Campo/San Diego Sampling Date: 9/25/2018
 Applicant/Owner: Various State: CA Sampling Point: DS 7b
 Investigator(s): Callie Amoaku, Patricia Schuyler Section, Township, Range: _____
 Landform (hillslope, terrace, etc.): basin Local relief (concave, convex, none): concave Slope (%): 0
 Subregion (LRR): C - Mediterranean California Lat: _____ Long: _____ Datum: _____
 Soil Map Unit Name: _____ NWI classification: _____

Are climatic / hydrologic conditions on the site typical for this time of year? Yes No (If no, explain in Remarks.)
 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 <input checked="" type="radio"/> No <input type="radio"/> Hydric Soil Present? Yes <input type="radio"/> No <input checked="" type="radio"/> Wetland Hydrology Present? Yes <input type="radio"/> No <input checked="" type="radio"/> | Is the Sampled Area within a Wetland? Yes <input type="radio"/> No <input checked="" type="radio"/> |
| Remarks: _____ | |

VEGETATION

| Tree Stratum (Use scientific names.) | Absolute % Cover | Dominant Species? | Indicator Status | | | | | | | | | | | | | | | | | | | | | | | | | |
|--|------------------|-------------------|------------------|--|-------------------|--------------|--|-------------|-------|---|--------------|----------|----|-------------|---------|----|--------------|---------|---|-------------|----------|----|----------------|--------|---------|--------------------------|--|------|
| 1. <i>Salix lasiolepis</i> | 25 | Yes | FACW | Dominance Test worksheet: Number of Dominant Species That Are OBL, FACW, or FAC: 2 (A) Total Number of Dominant Species Across All Strata: 4 (B) Percent of Dominant Species That Are OBL, FACW, or FAC: 50.0 % (A/B) | | | | | | | | | | | | | | | | | | | | | | | | |
| 2. <i>Salix exigua</i> | 10 | No | FACW | | | | | | | | | | | | | | | | | | | | | | | | | |
| 3. _____ | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 4. _____ | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Total Cover: 35 % | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Sapling/Shrub Stratum | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 1. <i>Artemisia dracunculus</i> | 5 | Yes | Not Listed | Prevalence Index worksheet: <table style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="width: 40%;">Total % Cover of:</th> <th colspan="2" style="text-align: center;">Multiply by:</th> </tr> </thead> <tbody> <tr> <td>OBL species</td> <td style="background-color: #cccccc;">x 1 =</td> <td style="background-color: #cccccc;">0</td> </tr> <tr> <td>FACW species</td> <td style="background-color: #cccccc;">35 x 2 =</td> <td style="background-color: #cccccc;">70</td> </tr> <tr> <td>FAC species</td> <td style="background-color: #cccccc;">5 x 3 =</td> <td style="background-color: #cccccc;">15</td> </tr> <tr> <td>FACU species</td> <td style="background-color: #cccccc;">1 x 4 =</td> <td style="background-color: #cccccc;">4</td> </tr> <tr> <td>UPL species</td> <td style="background-color: #cccccc;">10 x 5 =</td> <td style="background-color: #cccccc;">50</td> </tr> <tr> <td>Column Totals:</td> <td style="background-color: #cccccc;">51 (A)</td> <td style="background-color: #cccccc;">139 (B)</td> </tr> <tr> <td colspan="2" style="text-align: right;">Prevalence Index = B/A =</td> <td style="background-color: #cccccc;">2.73</td> </tr> </tbody> </table> | Total % Cover of: | Multiply by: | | OBL species | x 1 = | 0 | FACW species | 35 x 2 = | 70 | FAC species | 5 x 3 = | 15 | FACU species | 1 x 4 = | 4 | UPL species | 10 x 5 = | 50 | Column Totals: | 51 (A) | 139 (B) | Prevalence Index = B/A = | | 2.73 |
| Total % Cover of: | Multiply by: | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| OBL species | x 1 = | 0 | | | | | | | | | | | | | | | | | | | | | | | | | | |
| FACW species | 35 x 2 = | 70 | | | | | | | | | | | | | | | | | | | | | | | | | | |
| FAC species | 5 x 3 = | 15 | | | | | | | | | | | | | | | | | | | | | | | | | | |
| FACU species | 1 x 4 = | 4 | | | | | | | | | | | | | | | | | | | | | | | | | | |
| UPL species | 10 x 5 = | 50 | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Column Totals: | 51 (A) | 139 (B) | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Prevalence Index = B/A = | | 2.73 | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 2. <i>Baccharis salicifolia</i> | 5 | Yes | FAC | | | | | | | | | | | | | | | | | | | | | | | | | |
| 3. <i>Ambrosia psilostachya</i> | 1 | No | FACU | | | | | | | | | | | | | | | | | | | | | | | | | |
| 4. _____ | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 5. _____ | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Total Cover: 11 % | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Herb Stratum | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 1. <i>Bromus madritensis</i> | 5 | Yes | UPL | Hydrophytic Vegetation Indicators: <input checked="" type="checkbox"/> Dominance Test is >50% <input checked="" type="checkbox"/> Prevalence Index is ≤3.0 ¹ <input type="checkbox"/> Morphological Adaptations ¹ (Provide supporting data in Remarks or on a separate sheet) <input type="checkbox"/> Problematic Hydrophytic Vegetation ¹ (Explain) ¹ Indicators of hydric soil and wetland hydrology must be present. | | | | | | | | | | | | | | | | | | | | | | | | |
| 2. _____ | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 3. _____ | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 4. _____ | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 5. _____ | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 6. _____ | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 7. _____ | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 8. _____ | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Total Cover: 5 % | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Woody Vine Stratum | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 1. _____ | | | | Hydrophytic Vegetation Present? Yes <input checked="" type="radio"/> No <input type="radio"/> | | | | | | | | | | | | | | | | | | | | | | | | |
| 2. _____ | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Total Cover: % | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| % Bare Ground in Herb Stratum _____ % % Cover of Biotic Crust _____ % | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

Remarks: _____

SOIL

Sampling Point: DS 7b

| Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.) | | | | | | | | |
|---|---------------|-----|----------------|---|-------------------|----------------------|---------|------------------|
| Depth (inches) | Matrix | | Redox Features | | | Texture ³ | Remarks | |
| | Color (moist) | % | Color (moist) | % | Type ¹ | | | Loc ² |
| 0-12 | 5YR 3/3 | 100 | N/A | | | sandy loam | | |
| | | | | | | | | |
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¹Type: C=Concentration, D=Depletion, RM=Reduced Matrix. ²Location: PL=Pore Lining, RC=Root Channel, M=Matrix.
³Soil Textures: Clay, Silty Clay, Sandy Clay, Loam, Sandy Clay Loam, Sandy Loam, Clay Loam, Silty Clay Loam, Silt Loam, Silt, Loamy Sand, Sand.

| | | |
|--|---|--|
| <p>Hydric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.)</p> <input type="checkbox"/> Histosol (A1) <input type="checkbox"/> Histic Epipedon (A2) <input type="checkbox"/> Black Histic (A3) <input type="checkbox"/> Hydrogen Sulfide (A4) <input type="checkbox"/> Stratified Layers (A5) (LRR C) <input type="checkbox"/> 1 cm Muck (A9) (LRR D) <input type="checkbox"/> Depleted Below Dark Surface (A11) <input type="checkbox"/> Thick Dark Surface (A12) <input type="checkbox"/> Sandy Mucky Mineral (S1) <input type="checkbox"/> Sandy Gleyed Matrix (S4) | <input type="checkbox"/> Sandy Redox (S5) <input type="checkbox"/> Stripped Matrix (S6) <input type="checkbox"/> Loamy Mucky Mineral (F1) <input type="checkbox"/> Loamy Gleyed Matrix (F2) <input type="checkbox"/> Depleted Matrix (F3) <input type="checkbox"/> Redox Dark Surface (F6) <input type="checkbox"/> Depleted Dark Surface (F7) <input type="checkbox"/> Redox Depressions (F8) <input type="checkbox"/> Vernal Pools (F9) | <p>Indicators for Problematic Hydric Soils:⁴</p> <input type="checkbox"/> 1 cm Muck (A9) (LRR C) <input type="checkbox"/> 2 cm Muck (A10) (LRR B) <input type="checkbox"/> Reduced Vertic (F18) <input type="checkbox"/> Red Parent Material (TF2) <input type="checkbox"/> Other (Explain in Remarks) |
|--|---|--|

⁴Indicators of hydrophytic vegetation and wetland hydrology must be present.

| | |
|---|--|
| <p>Restrictive Layer (if present): Type: <u>hard soil</u> Depth (inches): <u>12+</u></p> | <p>Hydric Soil Present? Yes <input type="radio"/> No <input checked="" type="radio"/></p> |
| <p>Remarks:</p> | |

HYDROLOGY

| | | |
|---|---|---|
| <p>Wetland Hydrology Indicators:</p> <p>Primary Indicators (any one indicator is sufficient)</p> <input type="checkbox"/> Surface Water (A1) <input type="checkbox"/> High Water Table (A2) <input type="checkbox"/> Saturation (A3) <input type="checkbox"/> Water Marks (B1) (Nonriverine) <input type="checkbox"/> Sediment Deposits (B2) (Nonriverine) <input type="checkbox"/> Drift Deposits (B3) (Nonriverine) <input type="checkbox"/> Surface Soil Cracks (B6) <input type="checkbox"/> Inundation Visible on Aerial Imagery (B7) <input type="checkbox"/> Water-Stained Leaves (B9) | <input type="checkbox"/> Salt Crust (B11) <input type="checkbox"/> Biotic Crust (B12) <input type="checkbox"/> Aquatic Invertebrates (B13) <input type="checkbox"/> Hydrogen Sulfide Odor (C1) <input type="checkbox"/> Oxidized Rhizospheres along Living Roots (C3) <input type="checkbox"/> Presence of Reduced Iron (C4) <input type="checkbox"/> Recent Iron Reduction in Plowed Soils (C6) <input type="checkbox"/> Other (Explain in Remarks) | <p><u>Secondary Indicators (2 or more required)</u></p> <input type="checkbox"/> Water Marks (B1) (Riverine) <input type="checkbox"/> Sediment Deposits (B2) (Riverine) <input type="checkbox"/> Drift Deposits (B3) (Riverine) <input type="checkbox"/> Drainage Patterns (B10) <input type="checkbox"/> Dry-Season Water Table (C2) <input type="checkbox"/> Thin Muck Surface (C7) <input type="checkbox"/> Crayfish Burrows (C8) <input type="checkbox"/> Saturation Visible on Aerial Imagery (C9) <input type="checkbox"/> Shallow Aquitard (D3) <input type="checkbox"/> FAC-Neutral Test (D5) |
|---|---|---|

| | |
|---|--|
| <p>Field Observations:</p> <p>Surface Water Present? Yes <input type="radio"/> No <input checked="" type="radio"/> Depth (inches): _____</p> <p>Water Table Present? Yes <input type="radio"/> No <input checked="" type="radio"/> Depth (inches): _____</p> <p>Saturation Present? (includes capillary fringe) Yes <input type="radio"/> No <input checked="" type="radio"/> Depth (inches): _____</p> | <p>Wetland Hydrology Present? Yes <input type="radio"/> No <input checked="" type="radio"/></p> |
|---|--|

Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:

Remarks:

WETLAND DETERMINATION DATA FORM - Arid West Region

New: DS 8a

Project/Site: Campo Wind City/County: Campo/San Diego Sampling Date: 10/5/2018
 Applicant/Owner: Various State: CA Sampling Point: CJA5a
 Investigator(s): Callie Amoaku, Erin Bergman Section, Township, Range: _____
 Landform (hillslope, terrace, etc.): floodplain Local relief (concave, convex, none): None Slope (%): 0
 Subregion (LRR): C - Mediterranean California Lat: _____ Long: _____ Datum: _____
 Soil Map Unit Name: _____ NWI classification: _____

Are climatic / hydrologic conditions on the site typical for this time of year? Yes No (If no, explain in Remarks.)
 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 <input checked="" type="radio"/> No <input type="radio"/> Hydric Soil Present? Yes <input checked="" type="radio"/> No <input type="radio"/> Wetland Hydrology Present? Yes <input checked="" type="radio"/> No <input type="radio"/> | Is the Sampled Area within a Wetland? Yes <input checked="" type="radio"/> No <input type="radio"/> |
| Remarks: _____ _____ _____ | |

VEGETATION

| Tree Stratum (Use scientific names.) | Absolute % Cover | Dominant Species? | Indicator Status | Dominance Test worksheet: | |
|--|---------------------------------|-------------------|------------------|---|-----------------|
| 1. _____ | _____ | _____ | _____ | Number of Dominant Species That Are OBL, FACW, or FAC: | 2 (A) |
| 2. _____ | _____ | _____ | _____ | Total Number of Dominant Species Across All Strata: | 2 (B) |
| 3. _____ | _____ | _____ | _____ | Percent of Dominant Species That Are OBL, FACW, or FAC: | 100.0 % (A/B) |
| 4. _____ | _____ | _____ | _____ | | |
| Total Cover: _____ % | | | | | |
| Sapling/Shrub Stratum | Absolute % Cover | Dominant Species? | Indicator Status | Prevalence Index worksheet: | |
| 1. <i>Isocoma menziesii</i> | 3 | Yes | FAC | Total % Cover of: | Multiply by: |
| 2. _____ | _____ | _____ | _____ | OBL species | 10 x 1 = 10 |
| 3. _____ | _____ | _____ | _____ | FACW species | 75 x 2 = 150 |
| 4. _____ | _____ | _____ | _____ | FAC species | 4 x 3 = 12 |
| 5. _____ | _____ | _____ | _____ | FACU species | 12 x 4 = 48 |
| Total Cover: 3 % | | | UPL species | 4 x 5 = 20 | |
| | | | | Column Totals: | 105 (A) 240 (B) |
| | | | | Prevalence Index = B/A = 2.29 | |
| Herb Stratum | Absolute % Cover | Dominant Species? | Indicator Status | Hydrophytic Vegetation Indicators: | |
| 1. <i>Juncus mexicanus</i> | 70 | Yes | FACW | <input checked="" type="checkbox"/> Dominance Test is >50% | |
| 2. <i>Ambrosia psilostachya</i> | 10 | No | FACU | <input checked="" type="checkbox"/> Prevalence Index is ≤3.0 ¹ | |
| 3. <i>Anemopsis californica</i> | 10 | No | OBL | <input type="checkbox"/> Morphological Adaptations ¹ (Provide supporting data in Remarks or on a separate sheet) | |
| 4. <i>Carex praegracilis</i> | 5 | No | FACW | <input type="checkbox"/> Problematic Hydrophytic Vegetation ¹ (Explain) | |
| 5. <i>Erigeron foliosus</i> | 3 | No | Not Listed | | |
| 6. <i>Cirsium vulgare</i> | 2 | No | FACU | | |
| 7. <i>Solidago velutina ssp. californica</i> | 1 | No | Not Listed | | |
| 8. <i>Distichlis spicata</i> | 1 | No | FAC | | |
| Total Cover: 102% | | | | | |
| Woody Vine Stratum | Absolute % Cover | Dominant Species? | Indicator Status | | |
| 1. _____ | _____ | _____ | _____ | | |
| 2. _____ | _____ | _____ | _____ | | |
| Total Cover: _____ % | | | | | |
| % Bare Ground in Herb Stratum _____ % | % Cover of Biotic Crust _____ % | | | | |
| | | | | Hydrophytic Vegetation Present? Yes <input checked="" type="radio"/> No <input type="radio"/> | |

Remarks: _____

SOIL

Sampling Point: CJA5a

| Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.) | | | | | | | | |
|---|---------------|----|----------------|---|-------------------|------------------|----------------------|---------|
| Depth (inches) | Matrix | | Redox Features | | | Loc ² | Texture ³ | Remarks |
| | Color (moist) | % | Color (moist) | % | Type ¹ | | | |
| 0-12 | 5YR 3/1 | 98 | 2.5YR 4/8 | 2 | C | PL | clay loam | |
| | | | | | | | | |
| | | | | | | | | |
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¹Type: C=Concentration, D=Depletion, RM=Reduced Matrix. ²Location: PL=Pore Lining, RC=Root Channel, M=Matrix.
³Soil Textures: Clay, Silty Clay, Sandy Clay, Loam, Sandy Clay Loam, Sandy Loam, Clay Loam, Silty Clay Loam, Silt Loam, Silt, Loamy Sand, Sand.

| | | |
|--|--|--|
| <p>Hydric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.)</p> <input type="checkbox"/> Histosol (A1) <input type="checkbox"/> Histic Epipedon (A2) <input type="checkbox"/> Black Histic (A3) <input type="checkbox"/> Hydrogen Sulfide (A4) <input type="checkbox"/> Stratified Layers (A5) (LRR C) <input type="checkbox"/> 1 cm Muck (A9) (LRR D) <input type="checkbox"/> Depleted Below Dark Surface (A11) <input type="checkbox"/> Thick Dark Surface (A12) <input type="checkbox"/> Sandy Mucky Mineral (S1) <input type="checkbox"/> Sandy Gleyed Matrix (S4) | <input type="checkbox"/> Sandy Redox (S5) <input type="checkbox"/> Stripped Matrix (S6) <input type="checkbox"/> Loamy Mucky Mineral (F1) <input type="checkbox"/> Loamy Gleyed Matrix (F2) <input type="checkbox"/> Depleted Matrix (F3) <input checked="" type="checkbox"/> Redox Dark Surface (F6) <input type="checkbox"/> Depleted Dark Surface (F7) <input type="checkbox"/> Redox Depressions (F8) <input type="checkbox"/> Vernal Pools (F9) | <p>Indicators for Problematic Hydric Soils:⁴</p> <input type="checkbox"/> 1 cm Muck (A9) (LRR C) <input type="checkbox"/> 2 cm Muck (A10) (LRR B) <input type="checkbox"/> Reduced Vertic (F18) <input type="checkbox"/> Red Parent Material (TF2) <input type="checkbox"/> Other (Explain in Remarks) |
|--|--|--|

⁴Indicators of hydrophytic vegetation and wetland hydrology must be present.

| | |
|--|--|
| <p>Restrictive Layer (if present):</p> Type: _____ Depth (inches): _____ Remarks: _____ | <p>Hydric Soil Present? Yes <input checked="" type="radio"/> No <input type="radio"/></p> |
|--|--|

HYDROLOGY

| | | |
|---|--|---|
| <p>Wetland Hydrology Indicators:</p> <p>Primary Indicators (any one indicator is sufficient)</p> <input type="checkbox"/> Surface Water (A1) <input type="checkbox"/> High Water Table (A2) <input type="checkbox"/> Saturation (A3) <input type="checkbox"/> Water Marks (B1) (Nonriverine) <input type="checkbox"/> Sediment Deposits (B2) (Nonriverine) <input type="checkbox"/> Drift Deposits (B3) (Nonriverine) <input type="checkbox"/> Surface Soil Cracks (B6) <input type="checkbox"/> Inundation Visible on Aerial Imagery (B7) <input type="checkbox"/> Water-Stained Leaves (B9) | <input type="checkbox"/> Salt Crust (B11) <input type="checkbox"/> Biotic Crust (B12) <input type="checkbox"/> Aquatic Invertebrates (B13) <input type="checkbox"/> Hydrogen Sulfide Odor (C1) <input type="checkbox"/> Oxidized Rhizospheres along Living Roots (C3) <input type="checkbox"/> Presence of Reduced Iron (C4) <input type="checkbox"/> Recent Iron Reduction in Plowed Soils (C6) <input checked="" type="checkbox"/> Other (Explain in Remarks) | <p><u>Secondary Indicators (2 or more required)</u></p> <input type="checkbox"/> Water Marks (B1) (Riverine) <input type="checkbox"/> Sediment Deposits (B2) (Riverine) <input type="checkbox"/> Drift Deposits (B3) (Riverine) <input type="checkbox"/> Drainage Patterns (B10) <input type="checkbox"/> Dry-Season Water Table (C2) <input type="checkbox"/> Thin Muck Surface (C7) <input type="checkbox"/> Crayfish Burrows (C8) <input checked="" type="checkbox"/> Saturation Visible on Aerial Imagery (C9) <input type="checkbox"/> Shallow Aquitard (D3) <input checked="" type="checkbox"/> FAC-Neutral Test (D5) |
| <p>Field Observations:</p> Surface Water Present? Yes <input type="radio"/> No <input checked="" type="radio"/> Depth (inches): _____ Water Table Present? Yes <input type="radio"/> No <input checked="" type="radio"/> Depth (inches): _____ Saturation Present? (includes capillary fringe) Yes <input type="radio"/> No <input checked="" type="radio"/> Depth (inches): _____ | <p>Wetland Hydrology Present? Yes <input checked="" type="radio"/> No <input type="radio"/></p> | |
| Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available: _____ | | |
| Remarks: Tule Creek floodplain | | |

WETLAND DETERMINATION DATA FORM - Arid West Region

Project/Site: Campo Wind City/County: Campo/San Diego Sampling Date: 10/5/2018
 Applicant/Owner: Various State: CA Sampling Point: DS 8b
 Investigator(s): Callie Amoaku, Erin Bergman Section, Township, Range: _____
 Landform (hillslope, terrace, etc.): floodplain Local relief (concave, convex, none): None Slope (%): 0
 Subregion (LRR): C - Mediterranean California Lat: _____ Long: _____ Datum: _____
 Soil Map Unit Name: _____ NWI classification: _____

Are climatic / hydrologic conditions on the site typical for this time of year? Yes No (If no, explain in Remarks.)
 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 <input checked="" type="radio"/> No <input type="radio"/> Hydric Soil Present? Yes <input checked="" type="radio"/> No <input type="radio"/> Wetland Hydrology Present? Yes <input checked="" type="radio"/> No <input type="radio"/> | Is the Sampled Area within a Wetland? Yes <input checked="" type="radio"/> No <input type="radio"/> |
| Remarks: | |

VEGETATION

| Tree Stratum (Use scientific names.) | Absolute % Cover | Dominant Species? | Indicator Status | |
|---------------------------------------|---------------------------------|-------------------|------------------|--|
| 1. _____ | | | | |
| 2. _____ | | | | |
| 3. _____ | | | | |
| 4. _____ | | | | |
| Total Cover: _____ % | | | | |
| Sapling/Shrub Stratum | | | | |
| 1. <i>Marrubium vulgare</i> | 2 | Yes | FACU | |
| 2. _____ | | | | |
| 3. _____ | | | | |
| 4. _____ | | | | |
| 5. _____ | | | | |
| Total Cover: 2 % | | | | |
| Herb Stratum | | | | |
| 1. <i>Carex praegracilis</i> | 50 | Yes | FACW | |
| 2. <i>Ambrosia psilostachya</i> | 40 | Yes | FACU | |
| 3. <i>Juncus mexicanus</i> | 10 | No | FACW | |
| 4. <i>Cirsium vulgare</i> | 1 | No | FACU | |
| 5. <i>Hirschfeldia incana</i> | 1 | No | Not Listed | |
| 6. _____ | | | | |
| 7. _____ | | | | |
| 8. _____ | | | | |
| Total Cover: 102% | | | | |
| Woody Vine Stratum | | | | |
| 1. _____ | | | | |
| 2. _____ | | | | |
| Total Cover: _____ % | | | | |
| % Bare Ground in Herb Stratum _____ % | % Cover of Biotic Crust _____ % | | | |

Dominance Test worksheet:

Number of Dominant Species That Are OBL, FACW, or FAC: 1 (A)

Total Number of Dominant Species Across All Strata: 3 (B)

Percent of Dominant Species That Are OBL, FACW, or FAC: 33.3 % (A/B)

Prevalence Index worksheet:

| | | | |
|--------------------------|-------------------|--------------|----------------|
| | Total % Cover of: | Multiply by: | |
| OBL species | <u> </u> | x 1 = | <u>0</u> |
| FACW species | <u>60</u> | x 2 = | <u>120</u> |
| FAC species | <u> </u> | x 3 = | <u>0</u> |
| FACU species | <u>43</u> | x 4 = | <u>172</u> |
| UPL species | <u>1</u> | x 5 = | <u>5</u> |
| Column Totals: | <u>104</u> (A) | | <u>297</u> (B) |
| Prevalence Index = B/A = | | | <u>2.86</u> |

Hydrophytic Vegetation Indicators:

Dominance Test is >50%

Prevalence Index is ≤3.0¹

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.

Hydrophytic Vegetation Present? Yes No

Remarks:

SOIL

Sampling Point: DS 8b

Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)

| Depth (inches) | Matrix | | Redox Features | | | | Texture ³ | Remarks |
|-------------------|---------------|----|----------------|---|-------------------|------------------|----------------------|---------|
| | Color (moist) | % | Color (moist) | % | Type ¹ | Loc ² | | |
| 0-12 | 5YR 3/1 | 98 | 2.5YR 4/8 | 2 | C | PL | clay loam | |
| | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |

¹Type: C=Concentration, D=Depletion, RM=Reduced Matrix. ²Location: PL=Pore Lining, RC=Root Channel, M=Matrix.
³Soil Textures: Clay, Silty Clay, Sandy Clay, Loam, Sandy Clay Loam, Sandy Loam, Clay Loam, Silty Clay Loam, Silt Loam, Silt, Loamy Sand, Sand.

| | | | |
|--|--|--|--|
| Hydric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.) <input type="checkbox"/> Histosol (A1) <input type="checkbox"/> Histic Epipedon (A2) <input type="checkbox"/> Black Histic (A3) <input type="checkbox"/> Hydrogen Sulfide (A4) <input type="checkbox"/> Stratified Layers (A5) (LRR C) <input type="checkbox"/> 1 cm Muck (A9) (LRR D) <input type="checkbox"/> Depleted Below Dark Surface (A11) <input type="checkbox"/> Thick Dark Surface (A12) <input type="checkbox"/> Sandy Mucky Mineral (S1) <input type="checkbox"/> Sandy Gleyed Matrix (S4) | | <input type="checkbox"/> Sandy Redox (S5) <input type="checkbox"/> Stripped Matrix (S6) <input type="checkbox"/> Loamy Mucky Mineral (F1) <input type="checkbox"/> Loamy Gleyed Matrix (F2) <input type="checkbox"/> Depleted Matrix (F3) <input checked="" type="checkbox"/> Redox Dark Surface (F6) <input type="checkbox"/> Depleted Dark Surface (F7) <input type="checkbox"/> Redox Depressions (F8) <input type="checkbox"/> Vernal Pools (F9) | Indicators for Problematic Hydric Soils:⁴ <input type="checkbox"/> 1 cm Muck (A9) (LRR C) <input type="checkbox"/> 2 cm Muck (A10) (LRR B) <input type="checkbox"/> Reduced Vertic (F18) <input type="checkbox"/> Red Parent Material (TF2) <input type="checkbox"/> Other (Explain in Remarks) |
|--|--|--|--|

⁴Indicators of hydrophytic vegetation and wetland hydrology must be present.

| | |
|--|---|
| Restrictive Layer (if present): Type: _____ Depth (inches): _____ Remarks: _____ | Hydric Soil Present? Yes <input checked="" type="radio"/> No <input type="radio"/> |
|--|---|

HYDROLOGY

| | | |
|---|--|--|
| Wetland Hydrology Indicators: Primary Indicators (any one indicator is sufficient) <input type="checkbox"/> Surface Water (A1) <input type="checkbox"/> High Water Table (A2) <input type="checkbox"/> Saturation (A3) <input type="checkbox"/> Water Marks (B1) (Nonriverine) <input type="checkbox"/> Sediment Deposits (B2) (Nonriverine) <input type="checkbox"/> Drift Deposits (B3) (Nonriverine) <input type="checkbox"/> Surface Soil Cracks (B6) <input type="checkbox"/> Inundation Visible on Aerial Imagery (B7) <input type="checkbox"/> Water-Stained Leaves (B9) | <input type="checkbox"/> Salt Crust (B11) <input type="checkbox"/> Biotic Crust (B12) <input type="checkbox"/> Aquatic Invertebrates (B13) <input type="checkbox"/> Hydrogen Sulfide Odor (C1) <input type="checkbox"/> Oxidized Rhizospheres along Living Roots (C3) <input type="checkbox"/> Presence of Reduced Iron (C4) <input type="checkbox"/> Recent Iron Reduction in Plowed Soils (C6) <input checked="" type="checkbox"/> Other (Explain in Remarks) | Secondary Indicators (2 or more required) <input type="checkbox"/> Water Marks (B1) (Riverine) <input type="checkbox"/> Sediment Deposits (B2) (Riverine) <input type="checkbox"/> Drift Deposits (B3) (Riverine) <input type="checkbox"/> Drainage Patterns (B10) <input type="checkbox"/> Dry-Season Water Table (C2) <input type="checkbox"/> Thin Muck Surface (C7) <input type="checkbox"/> Crayfish Burrows (C8) <input checked="" type="checkbox"/> Saturation Visible on Aerial Imagery (C9) <input type="checkbox"/> Shallow Aquitard (D3) <input type="checkbox"/> FAC-Neutral Test (D5) |
|---|--|--|

| | |
|--|---|
| Field Observations: Surface Water Present? Yes <input type="radio"/> No <input checked="" type="radio"/> Depth (inches): _____ Water Table Present? Yes <input type="radio"/> No <input checked="" type="radio"/> Depth (inches): _____ Saturation Present? (includes capillary fringe) Yes <input type="radio"/> No <input checked="" type="radio"/> Depth (inches): _____ | Wetland Hydrology Present? Yes <input checked="" type="radio"/> No <input type="radio"/> |
|--|---|

Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:

Remarks: Unnamed tributary to Campo Creek floodplain

WETLAND DETERMINATION DATA FORM - Arid West Region

Project/Site: Campo Wind City/County: Campo/San Diego Sampling Date: 10/5/2018
 Applicant/Owner: Various State: CA Sampling Point: DS 8c
 Investigator(s): Callie Amoaku, Erin Bergman Section, Township, Range: _____
 Landform (hillslope, terrace, etc.): floodplain Local relief (concave, convex, none): None Slope (%): 0
 Subregion (LRR): C - Mediterranean California Lat: _____ Long: _____ Datum: _____
 Soil Map Unit Name: _____ NWI classification: _____

Are climatic / hydrologic conditions on the site typical for this time of year? Yes No (If no, explain in Remarks.)
 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 <input checked="" type="radio"/> No <input type="radio"/> Hydric Soil Present? Yes <input checked="" type="radio"/> No <input type="radio"/> Wetland Hydrology Present? Yes <input checked="" type="radio"/> No <input type="radio"/> | Is the Sampled Area within a Wetland? Yes <input checked="" type="radio"/> No <input type="radio"/> |
| Remarks: _____ | |

VEGETATION

| Tree Stratum (Use scientific names.) | Absolute % Cover | Dominant Species? | Indicator Status | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|---|------------------|---------------------------------|------------------|---|-------------------|--|--------------|--|-------------|----|-------|----|--------------|----|-------|-----|-------------|----|-------|----|--------------|--|-------|---|-------------|--|-------|---|----------------|-----|-----|---------|--------------------------|--|--|------|
| 1. <i>Salix laevigata</i> | 10 | Yes | FACW | Dominance Test worksheet: Number of Dominant Species That Are OBL, FACW, or FAC: 4 (A) Total Number of Dominant Species Across All Strata: 4 (B) Percent of Dominant Species That Are OBL, FACW, or FAC: 100.0 % (A/B) | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 2. _____ | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 3. _____ | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 4. _____ | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Total Cover: 10 % | | | | Prevalence Index worksheet: <table style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="width: 40%;">Total % Cover of:</th> <th style="width: 20%;"></th> <th style="width: 20%;">Multiply by:</th> <th style="width: 20%;"></th> </tr> </thead> <tbody> <tr> <td>OBL species</td> <td style="background-color: #e0e0e0;">30</td> <td>x 1 =</td> <td style="background-color: #e0e0e0;">30</td> </tr> <tr> <td>FACW species</td> <td style="background-color: #e0e0e0;">70</td> <td>x 2 =</td> <td style="background-color: #e0e0e0;">140</td> </tr> <tr> <td>FAC species</td> <td style="background-color: #e0e0e0;">20</td> <td>x 3 =</td> <td style="background-color: #e0e0e0;">60</td> </tr> <tr> <td>FACU species</td> <td style="background-color: #e0e0e0;"></td> <td>x 4 =</td> <td style="background-color: #e0e0e0;">0</td> </tr> <tr> <td>UPL species</td> <td style="background-color: #e0e0e0;"></td> <td>x 5 =</td> <td style="background-color: #e0e0e0;">0</td> </tr> <tr> <td>Column Totals:</td> <td style="background-color: #e0e0e0;">120</td> <td>(A)</td> <td style="background-color: #e0e0e0;">230 (B)</td> </tr> <tr> <td colspan="2" style="text-align: right;">Prevalence Index = B/A =</td> <td></td> <td style="background-color: #e0e0e0;">1.92</td> </tr> </tbody> </table> | Total % Cover of: | | Multiply by: | | OBL species | 30 | x 1 = | 30 | FACW species | 70 | x 2 = | 140 | FAC species | 20 | x 3 = | 60 | FACU species | | x 4 = | 0 | UPL species | | x 5 = | 0 | Column Totals: | 120 | (A) | 230 (B) | Prevalence Index = B/A = | | | 1.92 |
| Total % Cover of: | | Multiply by: | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| OBL species | 30 | x 1 = | 30 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| FACW species | 70 | x 2 = | 140 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| FAC species | 20 | x 3 = | 60 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| FACU species | | x 4 = | 0 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| UPL species | | x 5 = | 0 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Column Totals: | 120 | (A) | 230 (B) | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Prevalence Index = B/A = | | | 1.92 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Total Cover: 20 % | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Sapling/Shrub Stratum | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 1. <i>Baccharis salicifolia</i> | 20 | Yes | FAC | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 2. _____ | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 3. _____ | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 4. _____ | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 5. _____ | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Total Cover: 20 % | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Herb Stratum | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 1. <i>Carex praegracilis</i> | 45 | Yes | FACW | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 2. <i>Anemopsis californica</i> | 30 | Yes | OBL | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 3. <i>Euthamia occidentalis</i> | 15 | No | FACW | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 4. _____ | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 5. _____ | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 6. _____ | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 7. _____ | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 8. _____ | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Total Cover: 90 % | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Woody Vine Stratum | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 1. _____ | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 2. _____ | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Total Cover: % | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| % Bare Ground in Herb Stratum _____ % | | % Cover of Biotic Crust _____ % | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

Hydrophytic Vegetation Indicators:

Dominance Test is >50%

Prevalence Index is ≤3.0¹

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.

Hydrophytic Vegetation Present? Yes No

Remarks: _____

SOIL

Sampling Point: DS 8c

| Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.) | | | | | | | | |
|---|---------------|----|----------------|---|-------------------|------------------|----------------------|---------|
| Depth (inches) | Matrix | | Redox Features | | | | Texture ³ | Remarks |
| | Color (moist) | % | Color (moist) | % | Type ¹ | Loc ² | | |
| 0-6 | 2.5YR 2.5/1 | 98 | 2.5YR 4/6 | 2 | C | M | loamy sand | |
| 6-12 | 2.5YR 2.5/1 | 95 | 2.5YR 4/6 | 5 | C | M | loamy sand | |
| | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |

¹Type: C=Concentration, D=Depletion, RM=Reduced Matrix. ²Location: PL=Pore Lining, RC=Root Channel, M=Matrix.
³Soil Textures: Clay, Silty Clay, Sandy Clay, Loam, Sandy Clay Loam, Sandy Loam, Clay Loam, Silty Clay Loam, Silt Loam, Silt, Loamy Sand, Sand.

| | | | |
|--|--|--|--|
| Hydric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.) <input type="checkbox"/> Histosol (A1) <input type="checkbox"/> Histic Epipedon (A2) <input type="checkbox"/> Black Histic (A3) <input type="checkbox"/> Hydrogen Sulfide (A4) <input type="checkbox"/> Stratified Layers (A5) (LRR C) <input type="checkbox"/> 1 cm Muck (A9) (LRR D) <input type="checkbox"/> Depleted Below Dark Surface (A11) <input type="checkbox"/> Thick Dark Surface (A12) <input type="checkbox"/> Sandy Mucky Mineral (S1) <input type="checkbox"/> Sandy Gleyed Matrix (S4) | | <input type="checkbox"/> Sandy Redox (S5) <input type="checkbox"/> Stripped Matrix (S6) <input type="checkbox"/> Loamy Mucky Mineral (F1) <input type="checkbox"/> Loamy Gleyed Matrix (F2) <input type="checkbox"/> Depleted Matrix (F3) <input checked="" type="checkbox"/> Redox Dark Surface (F6) <input type="checkbox"/> Depleted Dark Surface (F7) <input type="checkbox"/> Redox Depressions (F8) <input type="checkbox"/> Vernal Pools (F9) | Indicators for Problematic Hydric Soils:⁴ <input type="checkbox"/> 1 cm Muck (A9) (LRR C) <input type="checkbox"/> 2 cm Muck (A10) (LRR B) <input type="checkbox"/> Reduced Vertic (F18) <input type="checkbox"/> Red Parent Material (TF2) <input type="checkbox"/> Other (Explain in Remarks) |
|--|--|--|--|

⁴Indicators of hydrophytic vegetation and wetland hydrology must be present.

| | |
|--|---|
| Restrictive Layer (if present): Type: _____ Depth (inches): _____ Remarks: _____ | Hydric Soil Present? Yes <input checked="" type="radio"/> No <input type="radio"/> |
|--|---|

HYDROLOGY

| | | |
|---|--|---|
| Wetland Hydrology Indicators: Primary Indicators (any one indicator is sufficient) <input type="checkbox"/> Surface Water (A1) <input type="checkbox"/> High Water Table (A2) <input type="checkbox"/> Saturation (A3) <input type="checkbox"/> Water Marks (B1) (Nonriverine) <input type="checkbox"/> Sediment Deposits (B2) (Nonriverine) <input type="checkbox"/> Drift Deposits (B3) (Nonriverine) <input type="checkbox"/> Surface Soil Cracks (B6) <input type="checkbox"/> Inundation Visible on Aerial Imagery (B7) <input type="checkbox"/> Water-Stained Leaves (B9) | <input type="checkbox"/> Salt Crust (B11) <input type="checkbox"/> Biotic Crust (B12) <input type="checkbox"/> Aquatic Invertebrates (B13) <input type="checkbox"/> Hydrogen Sulfide Odor (C1) <input type="checkbox"/> Oxidized Rhizospheres along Living Roots (C3) <input type="checkbox"/> Presence of Reduced Iron (C4) <input type="checkbox"/> Recent Iron Reduction in Plowed Soils (C6) <input checked="" type="checkbox"/> Other (Explain in Remarks) | Secondary Indicators (2 or more required) <input type="checkbox"/> Water Marks (B1) (Riverine) <input type="checkbox"/> Sediment Deposits (B2) (Riverine) <input type="checkbox"/> Drift Deposits (B3) (Riverine) <input type="checkbox"/> Drainage Patterns (B10) <input type="checkbox"/> Dry-Season Water Table (C2) <input type="checkbox"/> Thin Muck Surface (C7) <input type="checkbox"/> Crayfish Burrows (C8) <input checked="" type="checkbox"/> Saturation Visible on Aerial Imagery (C9) <input type="checkbox"/> Shallow Aquitard (D3) <input checked="" type="checkbox"/> FAC-Neutral Test (D5) |
|---|--|---|

| | |
|--|---|
| Field Observations: Surface Water Present? Yes <input type="radio"/> No <input checked="" type="radio"/> Depth (inches): _____ Water Table Present? Yes <input type="radio"/> No <input checked="" type="radio"/> Depth (inches): _____ Saturation Present? (includes capillary fringe) Yes <input type="radio"/> No <input checked="" type="radio"/> Depth (inches): _____ | Wetland Hydrology Present? Yes <input checked="" type="radio"/> No <input type="radio"/> |
|--|---|

Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:

Remarks: Unnamed tributary to Campo Creek floodplain

WETLAND DETERMINATION DATA FORM - Arid West Region

Project/Site: Campo Wind City/County: Campo/San Diego Sampling Date: 10/5/2018
 Applicant/Owner: Various State: CA Sampling Point: DS 8d
 Investigator(s): Callie Amoaku, Erin Bergman Section, Township, Range: _____
 Landform (hillslope, terrace, etc.): floodplain Local relief (concave, convex, none): None Slope (%): 0
 Subregion (LRR): C - Mediterranean California Lat: _____ Long: _____ Datum: _____
 Soil Map Unit Name: _____ NWI classification: _____

Are climatic / hydrologic conditions on the site typical for this time of year? Yes No (If no, explain in Remarks.)
 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 <input type="radio"/> No <input checked="" type="radio"/> Hydric Soil Present? Yes <input checked="" type="radio"/> No <input type="radio"/> Wetland Hydrology Present? Yes <input checked="" type="radio"/> No <input type="radio"/> | Is the Sampled Area within a Wetland? Yes <input type="radio"/> No <input checked="" type="radio"/> |
| Remarks: | |

VEGETATION

| Tree Stratum (Use scientific names.) | Absolute % Cover | Dominant Species? | Indicator Status | Dominance Test worksheet: | |
|---------------------------------------|------------------|---------------------------------|------------------|---|----------------|
| 1. _____ | _____ | _____ | _____ | Number of Dominant Species That Are OBL, FACW, or FAC: | 0 (A) |
| 2. _____ | _____ | _____ | _____ | Total Number of Dominant Species Across All Strata: | 2 (B) |
| 3. _____ | _____ | _____ | _____ | Percent of Dominant Species That Are OBL, FACW, or FAC: | 0.0 % (A/B) |
| 4. _____ | _____ | _____ | _____ | Total Cover: _____ % | |
| Sapling/Shrub Stratum | | | | Prevalence Index worksheet: | |
| 1. _____ | _____ | _____ | _____ | Total % Cover of: | Multiply by: |
| 2. _____ | _____ | _____ | _____ | OBL species | x 1 = 0 |
| 3. _____ | _____ | _____ | _____ | FACW species | x 2 = 0 |
| 4. _____ | _____ | _____ | _____ | FAC species | x 3 = 0 |
| 5. _____ | _____ | _____ | _____ | FACU species | 70 x 4 = 280 |
| Total Cover: _____ % | | | | UPL species | x 5 = 0 |
| Herb Stratum | | | | Column Totals: | 70 (A) 280 (B) |
| 1. <i>Lactuca serriola</i> | 40 | Yes | FACU | Prevalence Index = B/A = 4.00 | |
| 2. <i>Cirsium vulgare</i> | 30 | Yes | FACU | | |
| 3. _____ | _____ | _____ | _____ | Hydrophytic Vegetation Indicators: | |
| 4. _____ | _____ | _____ | _____ | <input checked="" type="checkbox"/> Dominance Test is >50% | |
| 5. _____ | _____ | _____ | _____ | <input checked="" type="checkbox"/> Prevalence Index is ≤3.0 ¹ | |
| 6. _____ | _____ | _____ | _____ | <input type="checkbox"/> Morphological Adaptations ¹ (Provide supporting data in Remarks or on a separate sheet) | |
| 7. _____ | _____ | _____ | _____ | <input type="checkbox"/> Problematic Hydrophytic Vegetation ¹ (Explain) | |
| 8. _____ | _____ | _____ | _____ | ¹ Indicators of hydric soil and wetland hydrology must be present. | |
| Total Cover: 70 % | | | | Hydrophytic Vegetation Present? Yes <input type="radio"/> No <input checked="" type="radio"/> | |
| Woody Vine Stratum | | | | | |
| 1. _____ | _____ | _____ | _____ | | |
| 2. _____ | _____ | _____ | _____ | | |
| Total Cover: _____ % | | | | | |
| % Bare Ground in Herb Stratum _____ % | | % Cover of Biotic Crust _____ % | | | |

Remarks:

SOIL

Sampling Point: DS 8d

| Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.) | | | | | | | | |
|---|---------------|-----|----------------|---|-------------------|------------------|----------------------|---------|
| Depth (inches) | Matrix | | Redox Features | | | | Texture ³ | Remarks |
| | Color (moist) | % | Color (moist) | % | Type ¹ | Loc ² | | |
| 0-6 | 2.5YR 3/1 | 100 | N/A | | | | Loam | |
| 6-12 | 2.5YR 3/1 | 95 | 2.5YR 4/8 | 5 | C | M | Loam | |
| | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |

¹Type: C=Concentration, D=Depletion, RM=Reduced Matrix. ²Location: PL=Pore Lining, RC=Root Channel, M=Matrix.
³Soil Textures: Clay, Silty Clay, Sandy Clay, Loam, Sandy Clay Loam, Sandy Loam, Clay Loam, Silty Clay Loam, Silt Loam, Silt, Loamy Sand, Sand.

| | | |
|--|--|--|
| <p>Hydric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.)</p> <input type="checkbox"/> Histosol (A1) <input type="checkbox"/> Histic Epipedon (A2) <input type="checkbox"/> Black Histic (A3) <input type="checkbox"/> Hydrogen Sulfide (A4) <input type="checkbox"/> Stratified Layers (A5) (LRR C) <input type="checkbox"/> 1 cm Muck (A9) (LRR D) <input type="checkbox"/> Depleted Below Dark Surface (A11) <input type="checkbox"/> Thick Dark Surface (A12) <input type="checkbox"/> Sandy Mucky Mineral (S1) <input type="checkbox"/> Sandy Gleyed Matrix (S4) | <input type="checkbox"/> Sandy Redox (S5) <input type="checkbox"/> Stripped Matrix (S6) <input type="checkbox"/> Loamy Mucky Mineral (F1) <input type="checkbox"/> Loamy Gleyed Matrix (F2) <input type="checkbox"/> Depleted Matrix (F3) <input checked="" type="checkbox"/> Redox Dark Surface (F6) <input type="checkbox"/> Depleted Dark Surface (F7) <input type="checkbox"/> Redox Depressions (F8) <input type="checkbox"/> Vernal Pools (F9) | <p>Indicators for Problematic Hydric Soils:⁴</p> <input type="checkbox"/> 1 cm Muck (A9) (LRR C) <input type="checkbox"/> 2 cm Muck (A10) (LRR B) <input type="checkbox"/> Reduced Vertic (F18) <input type="checkbox"/> Red Parent Material (TF2) <input type="checkbox"/> Other (Explain in Remarks) |
|--|--|--|

| | |
|--|--|
| <p>Restrictive Layer (if present):</p> Type: _____ Depth (inches): _____ Remarks: _____ | <p>Hydric Soil Present? Yes <input checked="" type="radio"/> No <input type="radio"/></p> |
|--|--|

HYDROLOGY

| | | |
|---|--|--|
| <p>Wetland Hydrology Indicators:</p> <p>Primary Indicators (any one indicator is sufficient)</p> <input type="checkbox"/> Surface Water (A1) <input type="checkbox"/> High Water Table (A2) <input type="checkbox"/> Saturation (A3) <input type="checkbox"/> Water Marks (B1) (Nonriverine) <input type="checkbox"/> Sediment Deposits (B2) (Nonriverine) <input type="checkbox"/> Drift Deposits (B3) (Nonriverine) <input type="checkbox"/> Surface Soil Cracks (B6) <input type="checkbox"/> Inundation Visible on Aerial Imagery (B7) <input type="checkbox"/> Water-Stained Leaves (B9) | <input type="checkbox"/> Salt Crust (B11) <input type="checkbox"/> Biotic Crust (B12) <input type="checkbox"/> Aquatic Invertebrates (B13) <input type="checkbox"/> Hydrogen Sulfide Odor (C1) <input type="checkbox"/> Oxidized Rhizospheres along Living Roots (C3) <input type="checkbox"/> Presence of Reduced Iron (C4) <input type="checkbox"/> Recent Iron Reduction in Plowed Soils (C6) <input checked="" type="checkbox"/> Other (Explain in Remarks) | <p><u>Secondary Indicators (2 or more required)</u></p> <input type="checkbox"/> Water Marks (B1) (Riverine) <input type="checkbox"/> Sediment Deposits (B2) (Riverine) <input type="checkbox"/> Drift Deposits (B3) (Riverine) <input type="checkbox"/> Drainage Patterns (B10) <input type="checkbox"/> Dry-Season Water Table (C2) <input type="checkbox"/> Thin Muck Surface (C7) <input type="checkbox"/> Crayfish Burrows (C8) <input checked="" type="checkbox"/> Saturation Visible on Aerial Imagery (C9) <input type="checkbox"/> Shallow Aquitard (D3) <input type="checkbox"/> FAC-Neutral Test (D5) |
|---|--|--|

| | |
|--|--|
| <p>Field Observations:</p> Surface Water Present? Yes <input type="radio"/> No <input checked="" type="radio"/> Depth (inches): _____ Water Table Present? Yes <input type="radio"/> No <input checked="" type="radio"/> Depth (inches): _____ Saturation Present? (includes capillary fringe) Yes <input type="radio"/> No <input checked="" type="radio"/> Depth (inches): _____ | <p>Wetland Hydrology Present? Yes <input checked="" type="radio"/> No <input type="radio"/></p> |
|--|--|

Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:

Remarks: Unnamed tributary to Campo Creek floodplain