

SOIL

Sampling Point: 31

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

[illegible]

¹Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains.

²Location: PL=Pore Lining, M=Matrix.

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

Indicators for Problematic Hydric Soils³:

- | | |
|--|---|
| ☐ Histosol (A1) | ☐ Sandy Redox (S5) |
| ☐ Histic Epipedon (A2) | ☐ Stripped Matrix (S6) |
| ☐ Black Histic (A3) | ☐ Loamy Mucky Mineral (F1) |
| ☐ Hydrogen Sulfide (A4) | ☐ Loamy Gleyed Matrix (F2) |
| ☐ Stratified Layers (A5) (LRR C) | ☐ Depleted Matrix (F3) |
| ☐ 1 cm Muck (A9) (LRR D) | ☐ Redox Dark Surface (F6) |
| ☐ Depleted Below Dark Surface (A11) | ☐ Depleted Dark Surface (F7) |
| ☐ Thick Dark Surface (A12) | ☐ Redox Depressions (F8) |
| ☐ Sandy Mucky Mineral (S1) | ☐ Vernal Pools (F9) |
| ☐ Sandy Gleyed Matrix (S4) | |

- 1 cm Muck (A9) (**LRR C**)
 — 2 cm Muck (A10) (**LRR B**)
 — Reduced Vertic (F18)
 — Red Parent Material (TF2)
 — Other (Explain in Remarks)

³Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.

Restrictive Layer (if present):

Type: _____

Depth (inches): _____

Hydric Soil Present? Yes _____ No ☒

Remarks: No hydric soil indicators observed.

HYDROLOGY

Wetland Hydrology Indicators:

Primary Indicators (minimum of one required; check all that apply)

Secondary Indicators (2 or more required)

- | | | |
|--|--|--|
| ☐ Surface Water (A1) | ☐ Salt Crust (B11) | ☐ Water Marks (B1) (Riverine) |
| ☐ High Water Table (A2) | ☐ Biotic Crust (B12) | ☒ Sediment Deposits (B2) (Riverine) |
| ☐ Saturation (A3) | ☐ Aquatic Invertebrates (B13) | ☐ Drift Deposits (B3) (Riverine) |
| ☐ Water Marks (B1) (Nonriverine) | ☐ Hydrogen Sulfide Odor (C1) | ☐ Drainage Patterns (B10) |
| ☐ Sediment Deposits (B2) (Nonriverine) | ☐ Oxidized Rhizospheres along Living Roots (C3) | ☐ Dry-Season Water Table (C2) |
| ☐ Drift Deposits (B3) (Nonriverine) | ☐ Presence of Reduced Iron (C4) | ☐ Crayfish Burrows (C8) |
| ☐ Surface Soil Cracks (B6) | ☐ Recent Iron Reduction in Tilled Soils (C6) | ☐ Saturation Visible on Aerial Imagery (C9) |
| ☐ Inundation Visible on Aerial Imagery (B7) | ☐ Thin Muck Surface (C7) | ☐ Shallow Aquitard (D3) |
| ☐ Water-Stained Leaves (B9) | ☐ Other (Explain in Remarks) | ☐ FAC-Neutral Test (D5) |

Field Observations:

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

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

Saturation Present? Yes No ☒ Depth (inches): _____

(includes capillary fringe)

Wetland Hydrology Present? Yes _____ No X

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

Remarks: Ephemeral drainage. channel width ranges for 5 ft to 20 ft
CDFG sketched / Dist. wetland?

WETLAND DETERMINATION DATA FORM – Arid West Region

Project/Site: Las Lilas City/County: San Diego County Sampling Date: 3/10/11
 Applicant/Owner: Acres-Live State: CA Sampling Point: 30
 Investigator(s): G. Schindler Section, Township, Range: _____
 Landform (hillslope, terrace, etc.): Valley bottom Local relief (concave, convex, none): Concave Slope (%): 0-5
 Subregion (LRR): LRR-C Lat: _____ Long: _____ Datum: _____
 Soil Map Unit Name: Steep gullied land / fine to coarse sandy loam NWI classification: _____

Are climatic / hydrologic conditions on the site typical for this time of year? Yes X No _____ (If no, explain in Remarks.)
 Are Vegetation X, Soil _____, or Hydrology _____ significantly disturbed? Yes Are "Normal Circumstances" present? Yes X No _____
 Are Vegetation _____, Soil _____, or Hydrology _____ naturally problematic? No (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 <u>X</u> No _____	Is the Sampled Area within a Wetland? Yes <u>X</u> No _____
Hydric Soil Present? Yes <u>X</u> No _____	
Wetland Hydrology Present? Yes <u>X</u> No _____	
Remarks: <u>log debris dumped in channel</u>	

VEGETATION – Use scientific names of plants.

Tree Stratum (Plot size: _____)	Absolute % Cover	Dominant Species?	Indicator Status	Dominance Test worksheet:
1. <u>Salix laurifolia</u>	<u>50</u>	<u>yes</u>	<u>FACW</u>	
2. <u>Quercus agrifolia</u>	<u>20</u>	<u>yes</u>	<u>UPL</u>	Total Number of Dominant Species Across All Strata: <u>4</u> (B)
3. _____				Percent of Dominant Species That Are OBL, FACW, or FAC: <u>25</u> (A/B)
4. _____	<u>70</u>			
<u>70</u> = Total Cover				
Sapling/Shrub Stratum (Plot size: _____)	Absolute % Cover	Dominant Species?	Indicator Status	Prevalence Index worksheet:
1. <u>Nicotiana glauca</u>	<u>5</u>	<u>yes</u>	<u>UPL</u>	
2. _____				OBL species _____ x 1 = _____
3. _____				FACW species <u>50</u> x 2 = <u>100</u>
4. _____				FAC species _____ x 3 = _____
5. _____	<u>5</u>			FACU species _____ x 4 = _____
<u>5</u> = Total Cover				UPL species <u>27</u> x 5 = <u>135</u>
				Column Totals: <u>77</u> (A) <u>235</u> (B)
				Prevalence Index = B/A = <u>3.0</u>
Herb Stratum (Plot size: _____)	Absolute % Cover	Dominant Species?	Indicator Status	Hydrophytic Vegetation Indicators:
1. <u>Italian Thistle (Carduus)</u>	<u>2</u>	<u>yes</u>	<u>UPL</u>	
2. _____				<u>X</u> Prevalence Index is ≤3.0 ¹
3. _____				_____ Morphological Adaptations ¹ (Provide supporting data in Remarks or on a separate sheet)
4. _____				_____ Problematic Hydrophytic Vegetation ¹ (Explain)
5. _____				
6. _____				
7. _____				
8. _____	<u>2</u>			
<u>2</u> = Total Cover				
Woody Vine Stratum (Plot size: _____)	Absolute % Cover	Dominant Species?	Indicator Status	Hydrophytic Vegetation Present? Yes <u>X</u> No _____
1. _____				
2. _____				
_____ = Total Cover				
% Bare Ground in Herb Stratum <u>23</u> % Cover of Biotic Crust _____				

Remarks: Vegetation disturbed due to debris dumped from adjacent agriculture operation.

SOIL

Sampling Point: 32

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

Depth (inches)	Matrix		Redox Features				Texture	Remarks
	Color (moist)	%	Color (moist)	%	Type ¹	Loc ²		
0-12	10YR3/2						Sandy loam	

¹Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains.²Location: PL=Pore Lining, M=Matrix.

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

Indicators for Problematic Hydric Soils³:

- ☐ Histosol (A1)
☐ Histic Epipedon (A2)
☐ Black Histic (A3)
☐ Hydrogen Sulfide (A4)
☐ Stratified Layers (A5) (LRR C)
☐ 1 cm Muck (A9) (LRR D)
☐ Depleted Below Dark Surface (A11)
☐ Thick Dark Surface (A12)
☐ Sandy Mucky Mineral (S1)
☐ Sandy Gleyed Matrix (S4)
- ☐ Sandy Redox (S5)
☐ Stripped Matrix (S6)
☐ Loamy Mucky Mineral (F1)
☐ Loamy Gleyed Matrix (F2)
☒ Depleted Matrix (F3)
☐ Redox Dark Surface (F6)
☐ Depleted Dark Surface (F7)
☐ Redox Depressions (F8)
☐ Vernal Pools (F9)

- ☐ 1 cm Muck (A9) (LRR C)
☐ 2 cm Muck (A10) (LRR B)
☐ Reduced Vertic (F18)
☐ Red Parent Material (TF2)
☐ Other (Explain in Remarks)

³Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.

Restrictive Layer (if present):

Type: _____

Depth (inches): _____

Hydric Soil Present? Yes ☒ No ☐

Remarks:

HYDROLOGY

Wetland Hydrology Indicators:

Primary Indicators (minimum of one required; check all that apply)

- ☒ Surface Water (A1)
☒ High Water Table (A2)
☒ Saturation (A3)
☐ Water Marks (B1) (Nonriverine)
☐ Sediment Deposits (B2) (Nonriverine)
☐ Drift Deposits (B3) (Nonriverine)
☐ Surface Soil Cracks (B6)
☐ Inundation Visible on Aerial Imagery (B7)
☐ Water-Stained Leaves (B9)
- ☐ Salt Crust (B11)
☐ Biotic Crust (B12)
☐ Aquatic Invertebrates (B13)
☐ Hydrogen Sulfide Odor (C1)
☐ Oxidized Rhizospheres along Living Roots (C3)
☐ Presence of Reduced Iron (C4)
☐ Recent Iron Reduction in Tilled Soils (C6)
☐ Thin Muck Surface (C7)
☐ Other (Explain in Remarks)

Secondary Indicators (2 or more required)

- ☐ Water Marks (B1) (Riverine)
☐ Sediment Deposits (B2) (Riverine)
☐ Drift Deposits (B3) (Riverine)
☐ Drainage Patterns (B10)
☐ Dry-Season Water Table (C2)
☐ Crayfish Burrows (C8)
☐ Saturation Visible on Aerial Imagery (C9)
☐ Shallow Aquitard (D3)
☐ FAC-Neutral Test (D5)

Field Observations:

Surface Water Present? Yes ☒ No ☐ Depth (inches): 3"Water Table Present? Yes ☒ No ☐ Depth (inches): 6"Saturation Present? (includes capillary fringe) Yes ☒ No ☐ Depth (inches): 3"Wetland Hydrology Present? Yes ☒ No ☐

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

Remarks:

Sample in low flow channel within stream.

WETLAND DETERMINATION DATA FORM – Arid West Region

Project/Site: Las Lajas City/County: San Diego County Sampling Date: 3/10/11
 Applicant/Owner: _____ State: CA Sampling Point: 33
 Investigator(s): G. Schuel Section, Township, Range: _____
 Landform (hillslope, terrace, etc.): Valley bottom Local relief (concave, convex, none): Concave Slope (%): _____
 Subregion (LRR): LRR-C Lat: _____ Long: _____ Datum: _____
 Soil Map Unit Name: Steep Gullied Land / Creosote coarse sandy loam NWI classification: _____

Are climatic / hydrologic conditions on the site typical for this time of year? Yes X No _____ (If no, explain in Remarks.)

Are Vegetation _____, Soil _____, or Hydrology _____ significantly disturbed? No Are "Normal Circumstances" present? Yes X No _____

Are Vegetation _____, Soil _____, or Hydrology _____ naturally problematic? No (If needed, explain any answers in Remarks.)

SUMMARY OF FINDINGS – Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present? Yes _____ No _____	Is the Sampled Area within a Wetland? Yes _____ No _____
Hydric Soil Present? Yes _____ No _____	
Wetland Hydrology Present? Yes _____ No _____	
Remarks:	

VEGETATION – Use scientific names of plants.

Tree Stratum (Plot size: _____)	Absolute % Cover	Dominant Species?	Indicator Status	Dominance Test worksheet:
1. <u>Quercus agrifolia</u>	<u>15</u>	<u>Yes</u>	<u>UPL</u>	
2. <u>Populus fremontii (1)</u>	<u>5</u>	<u>Yes</u>	<u>FAC</u>	Total Number of Dominant Species Across All Strata: <u>4</u> (B)
3. _____				Percent of Dominant Species That Are OBL, FACW, or FAC: <u>25</u> (A/B)
4. _____				
<u>20</u> = Total Cover				
Sapling/Shrub Stratum (Plot size: _____)	Absolute % Cover	Dominant Species?	Indicator Status	Prevalence Index worksheet:
1. <u>Sapria melifera</u>	<u>25</u>	<u>Yes</u>	<u>UPL</u>	
2. <u>Artemisia californica</u>	<u>10</u>	<u>No</u>	<u>UPL</u>	OBL species _____ x 1 = _____
3. <u>Heteromeles arbutifolia</u>	<u>10</u>	<u>No</u>	<u>UPL</u>	FACW species _____ x 2 = _____
4. <u>Adenostoma fasciculata</u>	<u>10</u>	<u>No</u>	<u>UPL</u>	FAC species <u>5</u> x 3 = <u>15</u>
5. _____				FACU species _____ x 4 = _____
<u>55</u> = Total Cover				UPL species <u>45</u> x 5 = <u>32.5</u>
				Column Totals: <u>70</u> (A) <u>440</u> (B)
				Prevalence Index = B/A = <u>6.2</u>
Herb Stratum (Plot size: _____)	Absolute % Cover	Dominant Species?	Indicator Status	Hydrophytic Vegetation Indicators:
1. <u>Italian Thistle (Carduus sp.)</u>	<u>20</u>	<u>Yes</u>	<u>UPL</u>	
2. _____				___ Prevalence Index is ≤3.0 ¹
3. _____				___ Morphological Adaptations ¹ (Provide supporting data in Remarks or on a separate sheet)
4. _____				___ Problematic Hydrophytic Vegetation ¹ (Explain)
5. _____				
6. _____				
7. _____				
8. _____				
<u>20</u> = Total Cover				
Woody Vine Stratum (Plot size: _____)	Absolute % Cover	Dominant Species?	Indicator Status	¹ Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.
1. _____				
2. _____				
_____ = Total Cover				
% Bare Ground in Herb Stratum _____ % Cover of Biotic Crust _____				Hydrophytic Vegetation Present? Yes _____ No <u>X</u>

Remarks:

Sampling Point: 33

HYDROLOGY

Arid West – Version 2.0

WETLAND DETERMINATION DATA FORM – Arid West Region

Project/Site: Las Litas City/County: San Diego County Sampling Date: 3/10/11
 Applicant/Owner: _____ State: CA Sampling Point: 34
 Investigator(s): G. Schind Section, Township, Range: _____
 Landform (hillslope, terrace, etc.): hill slope drainage Local relief (concave, convex, none): Concave Slope (%): 0-5
 Subregion (LRR): LRR-C Lat: _____ Long: _____ Datum: _____
 Soil Map Unit Name: Cienega coarse sandy loam NWI classification: _____
 Are climatic / hydrologic conditions on the site typical for this time of year? Yes X No _____ (If no, explain in Remarks.)
 Are Vegetation X, Soil _____, or Hydrology _____ significantly disturbed? yes Are "Normal Circumstances" present? Yes X No _____
 Are Vegetation _____, Soil _____, or Hydrology _____ naturally problematic? No (If needed, explain any answers in Remarks.)

SUMMARY OF FINDINGS – Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present? Yes _____ No _____	Is the Sampled Area within a Wetland? Yes _____ No _____
Hydric Soil Present? Yes _____ No _____	
Wetland Hydrology Present? Yes _____ No _____	
Remarks: <u>Veg dist., area part of orchard w/ remnant patches of chaparral; mostly annual grasses in understory.</u>	

VEGETATION – Use scientific names of plants.

Tree Stratum (Plot size: _____)	Absolute % Cover	Dominant Species?	Indicator Status	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>3</u> (B) Percent of Dominant Species That Are OBL, FACW, or FAC: <u>0</u> (A/B)
1. _____	_____	_____	_____	
2. _____	_____	_____	_____	
3. _____	_____	_____	_____	
4. _____	_____	_____	_____	
_____ = Total Cover				Prevalence Index worksheet: Total % Cover of: _____ Multiply by: OBL species _____ x 1 = _____ FACW species _____ x 2 = _____ FAC species _____ x 3 = _____ FACU species _____ x 4 = _____ UPL species <u>90</u> x 5 = <u>450</u> Column Totals: <u>90</u> (A) <u>450</u> (B) Prevalence Index = B/A = <u>5.0</u>
Sapling/Shrub Stratum (Plot size: _____) 1. <u>Heteromeles arbutifolia</u> <u>10</u> <u>yes</u> <u>UPL</u> 2. <u>Malosma laurina</u> <u>10</u> <u>yes</u> <u>UPL</u> 3. _____ 4. _____ 5. _____ _____ = Total Cover				
Herb Stratum (Plot size: _____) 1. <u>Bromus diandrus</u> <u>50</u> <u>yes</u> <u>UPL</u> 2. <u>Avena barbata</u> <u>10</u> <u>no</u> <u>UPL</u> 3. <u>Italian Thistle (Carduus sp.)</u> <u>10</u> <u>No</u> <u>UPL</u> 4. _____ 5. _____ 6. _____ 7. _____ 8. _____ _____ = Total Cover				
Woody Vine Stratum (Plot size: _____) 1. _____ 2. _____ _____ = Total Cover				
% Bare Ground in Herb Stratum <u>10</u> % Cover of Biotic Crust _____				
Hydrophytic Vegetation Indicators: _____ Dominance Test is >50% _____ Prevalence Index is ≤3.0 ¹ _____ Morphological Adaptations ¹ (Provide supporting data in Remarks or on a separate sheet) _____ Problematic Hydrophytic Vegetation ¹ (Explain)				
Hydrophytic Vegetation Present? Yes _____ No <u>X</u>				
Remarks: _____				

SOIL _____ Sampling Point: 34

Sampling Point: 34

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

[illegible]

¹Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains.

²Location: PL=Pore Lining, M=Matrix.

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

Indicators for Problematic Hydric Soils³:

- | | | |
|--|---|---|
| ☐ Histosol (A1) | ☐ Sandy Redox (S5) | ☐ 1 cm Muck (A9) (LRR C) |
| ☐ Histic Epipedon (A2) | ☐ Stripped Matrix (S6) | ☐ 2 cm Muck (A10) (LRR B) |
| ☐ Black Histic (A3) | ☐ Loamy Mucky Mineral (F1) | ☐ Reduced Vertic (F18) |
| ☐ Hydrogen Sulfide (A4) | ☐ Loamy Gleyed Matrix (F2) | ☐ Red Parent Material (TF2) |
| ☐ Stratified Layers (A5) (LRR C) | ☐ Depleted Matrix (F3) | ☐ Other (Explain in Remarks) |
| ☐ 1 cm Muck (A9) (LRR D) | ☐ Redox Dark Surface (F6) | |
| ☐ Depleted Below Dark Surface (A11) | ☐ Depleted Dark Surface (F7) | |
| ☐ Thick Dark Surface (A12) | ☐ Redox Depressions (F8) | |
| ☐ Sandy Mucky Mineral (S1) | ☐ Vernal Pools (F9) | |
| ☐ Sandy Gleyed Matrix (S4) | | |
- ³Indicators of hydrophytic vegetation wetland hydrology must be present unless disturbed or problematic

³Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.

Restrictive Layer (if present):

Type: _____

Depth (inches): _____

Hydric Soil Present? Yes _____ No X

Remarks: No hydric soil indicators observed.

HYDROLOGY

Wetland Hydrology Indicators:

Primary Indicators (minimum of one required; check all that apply)

Secondary Indicators (2 or more required)

- | | | |
|--|--|---|
| ☐ Surface Water (A1) | ☐ Salt Crust (B11) | ☐ Water Marks (B1) (Riverine) |
| ☐ High Water Table (A2) | ☐ Biotic Crust (B12) | ☐ Sediment Deposits (B2) (Riverine) |
| ☐ Saturation (A3) | ☐ Aquatic Invertebrates (B13) | ☐ Drift Deposits (B3) (Riverine) |
| ☐ Water Marks (B1) (Nonriverine) | ☐ Hydrogen Sulfide Odor (C1) | ☐ Drainage Patterns (B10) |
| ☐ Sediment Deposits (B2) (Nonriverine) | ☐ Oxidized Rhizospheres along Living Roots (C3) | ☐ Dry-Season Water Table (C2) |
| ☐ Drift Deposits (B3) (Nonriverine) | ☐ Presence of Reduced Iron (C4) | ☐ Crayfish Burrows (C8) |
| ☐ Surface Soil Cracks (B6) | ☐ Recent Iron Reduction in Tilled Soils (C6) | ☐ Saturation Visible on Aerial Imagery (C9) |
| ☐ Inundation Visible on Aerial Imagery (B7) | ☐ Thin Muck Surface (C7) | ☐ Shallow Aquitard (D3) |
| ☐ Water-Stained Leaves (B9) | ☐ Other (Explain in Remarks) | ☐ FAC-Neutral Test (D5) |

Field Observations:

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

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

Saturation Present? Yes No ☒ Depth (inches): _____

Wetland Hydrology Present? Yes ☐ No ☒

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

Remarks: No wetland hydrology indicators observed. Location within ephemeral drainage within upland area. ACOE - non-wetland water
CDEG - Streambed

WETLAND DETERMINATION DATA FORM – Arid West Region

Project/Site: Lilac Hills Ranch City/County: SD / SD Sampling Date: 1-11-12
 Applicant/Owner: Accretive Group State: CA Sampling Point: 35 (1)
 Investigator(s): G. Scheid Section, Township, Range: _____
 Landform (hillslope, terrace, etc.): Steep gully Local relief (concave, convex, none): concave Slope (%): 5-10%
 Subregion (LRR): LRR-C Lat: _____ Long: _____ Datum: _____
 Soil Map Unit Name: Fallbrook Sandy loam NWI classification: _____

Are climatic / hydrologic conditions on the site typical for this time of year? Yes X No _____ (If no, explain in Remarks.)
 Are Vegetation _____, Soil _____, or Hydrology _____ significantly disturbed? No Are "Normal Circumstances" present? Yes X No _____
 Are Vegetation _____, Soil _____, or Hydrology _____ naturally problematic? No (If needed, explain any answers in Remarks.)

SUMMARY OF FINDINGS – Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present?	Yes _____ No <u>X</u>	Is the Sampled Area within a Wetland? Yes _____ No <u>X</u>
Hydric Soil Present?	Yes _____ No <u>X</u>	
Wetland Hydrology Present?	Yes _____ No <u>X</u>	
Remarks:		

VEGETATION – Use scientific names of plants.

Tree Stratum (Plot size: <u>20m²</u>)	Absolute % Cover	Dominant Species?	Indicator Status	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>2</u> (B) Percent of Dominant Species That Are OBL, FACW, or FAC: <u>0</u> (A/B)
1. <u>none</u>				
2. _____				
3. _____				
4. _____				
= Total Cover				
Sapling/Shrub Stratum (Plot size: <u>20m²</u>)	Absolute % Cover	Dominant Species?	Indicator Status	Prevalence Index worksheet: Total % Cover of: _____ Multiply by: _____ OBL species _____ x 1 = _____ FACW species _____ x 2 = _____ FAC species _____ x 3 = _____ FACU species _____ x 4 = _____ UPL species <u>90</u> x 5 = <u>450</u> Column Totals: <u>90</u> (A) <u>450</u> (B) Prevalence Index = B/A = <u>5</u>
1. <u>Nicotiana glauca</u>	<u>10</u>	<u>N</u>	<u>UPL</u>	
2. <u>Malosma laurina</u>	<u>30</u>	<u>Y</u>	<u>UPL</u>	
3. <u>Salvia mellifera</u>	<u>10</u>	<u>N</u>	<u>UPL</u>	
4. _____				
5. _____				
= Total Cover				
Herb Stratum (Plot size: <u>20m²</u>)	Absolute % Cover	Dominant Species?	Indicator Status	Hydrophytic Vegetation Indicators: ____ Dominance Test is >50% ____ Prevalence Index is ≤3.0 ¹ ____ Morphological Adaptations ¹ (Provide supporting data in Remarks or on a separate sheet) ____ Problematic Hydrophytic Vegetation ¹ (Explain) ¹ Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.
1. <u>Rhamnus scitua</u>	<u>40</u>	<u>Y</u>	<u>UPL</u>	
2. _____				
3. _____				
4. _____				
5. _____				
6. _____				
7. _____				
8. _____				
= Total Cover				
Woody Vine Stratum (Plot size: _____)	Absolute % Cover	Dominant Species?	Indicator Status	Hydrophytic Vegetation Present? Yes _____ No <u>X</u>
1. _____				
2. _____				
= Total Cover				
% Bare Ground in Herb Stratum <u>10%</u> % Cover of Biotic Crust _____				

Remarks:

Sampling Point: 35

HYDROLOGY

Arid West – Version 2.0

WETLAND DETERMINATION DATA FORM – Arid West Region

Project/Site: Lilac Hills Ranch City/County: San Diego / San Diego Sampling Date: 1-11-12
 Applicant/Owner: Accretive Group State: CA Sampling Point: 36 (E)
 Investigator(s): G. Scheid Section, Township, Range: _____
 Landform (hillslope, terrace, etc.): Valley bottom Local relief (concave, convex, none): Concave Slope (%): 0-2%
 Subregion (LRR): LRR-C Lat: _____ Long: _____ Datum: _____
 Soil Map Unit Name: Fallbrook Sandy loam NWI classification: _____

Are climatic / hydrologic conditions on the site typical for this time of year? Yes X No _____ (If no, explain in Remarks.)
 Are Vegetation _____, Soil _____, or Hydrology _____ significantly disturbed? No Are "Normal Circumstances" present? Yes X No _____
 Are Vegetation _____, Soil _____, or Hydrology _____ naturally problematic? No (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 <u>X</u> No _____	Is the Sampled Area within a Wetland? Yes <u>X</u> No _____
Hydric Soil Present?	Yes <u>X</u> No _____	
Wetland Hydrology Present?	Yes <u>X</u> No _____	
Remarks:		

VEGETATION – Use scientific names of plants.

Tree Stratum (Plot size: <u>10m²</u>)	Absolute % Cover	Dominant Species?	Indicator Status	Dominance Test worksheet: Number of Dominant Species That Are OBL, FACW, or FAC: <u>43</u> (A) Total Number of Dominant Species Across All Strata: <u>3</u> (B) Percent of Dominant Species That Are OBL, FACW, or FAC: <u>100%</u> (A/B)
1. <u>Salix laurifolia</u>	<u>40</u>	<u>Y</u>	<u>FACW</u>	
2. <u>Quercus agrifolia</u>	<u>10</u>	<u>N</u>	<u>UPL</u>	
3. <u>Salix lasiolepis</u>	<u>20</u>	<u>N</u>	<u>FACW</u>	
4. _____	_____	_____	_____	
<u>70</u> = Total Cover				Prevalence Index worksheet: Total % Cover of: _____ Multiply by: _____ OBL species _____ x 1 = _____ FACW species _____ x 2 = _____ FAC species _____ x 3 = _____ FACU species _____ x 4 = _____ UPL species _____ x 5 = _____ Column Totals: _____ (A) _____ (B) Prevalence Index = B/A = _____
Sapling/Shrub Stratum (Plot size: _____) 1. <u>None</u> 2. _____ 3. _____ 4. _____ 5. _____ _____ = Total Cover				
Herb Stratum (Plot size: <u>10m²</u>)				Hydrophytic Vegetation Indicators: <u>X</u> Dominance Test is >50% ____ Prevalence Index is ≤3.0 ¹ ____ Morphological Adaptations ¹ (Provide supporting data in Remarks or on a separate sheet) ____ Problematic Hydrophytic Vegetation ¹ (Explain)
1. <u>Cyperus esculentus</u>	<u>2</u>	<u>Y</u>	<u>FACW</u>	
2. <u>Ruppia nasturtium-aquaticum</u>	<u>2</u>	<u>Y</u>	<u>OBL</u>	
3. _____	_____	_____	_____	
4. _____	_____	_____	_____	
5. _____	_____	_____	_____	
6. _____	_____	_____	_____	
7. _____	_____	_____	_____	
8. _____	_____	_____	_____	
<u>4</u> = Total Cover				
Woody Vine Stratum (Plot size: _____) 1. _____ 2. _____ _____ = Total Cover				Hydrophytic Vegetation Present? Yes <u>X</u> No _____
% Bare Ground in Herb Stratum <u>10</u> % Cover of Biotic Crust <u>✓</u>				

Remarks:

Sampling Point: 36

HYDROLOGYArid West – Version 2.0

WETLAND DETERMINATION DATA FORM – Arid West Region

Project/Site: Lilac Hills Ranch City/County: San Diego / SD Sampling Date: 1-11-12
 Applicant/Owner: Accretive Group State: CA Sampling Point: 37 (3)
 Investigator(s): G. Scheid Section, Township, Range: _____
 Landform (hillslope, terrace, etc.): slope Local relief (concave, convex, none): concave Slope (%): 5-10?
 Subregion (LRR): LRR-C Lat: _____ Long: _____ Datum: _____
 Soil Map Unit Name: Fallbrook Sandy Loam 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? yes Are "Normal Circumstances" present? Yes ☒ No _____
 Are Vegetation _____, Soil _____, or Hydrology _____ naturally problematic? No (If needed, explain any answers in Remarks.)

SUMMARY OF FINDINGS – Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present?	Yes _____ No ☒	Is the Sampled Area within a Wetland? Yes _____ No ☒
Hydric Soil Present?	Yes _____ No ☒	
Wetland Hydrology Present?	Yes _____ No ☒	
Remarks: <u>Native vegetation converted to orchard.</u>		

VEGETATION – Use scientific names of plants.

Tree Stratum (Plot size: <u>10m²</u>)	Absolute % Cover	Dominant Species?	Indicator Status	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>3</u> (B) Percent of Dominant Species That Are OBL, FACW, or FAC: <u>0</u> (A/B)
1. <u>Avocado</u>	<u>30</u>	<u>Y</u>	<u>UPL</u>	
2. _____	_____	_____	_____	Prevalence Index worksheet: Total % Cover of: _____ Multiply by: OBL species _____ x 1 = _____ FACW species _____ x 2 = _____ FAC species _____ x 3 = _____ FACU species _____ x 4 = _____ UPL species <u>80</u> x 5 = <u>400</u> Column Totals: <u>80</u> (A) <u>400</u> (B) Prevalence Index = B/A = <u>5</u>
3. _____	_____	_____	_____	
4. _____	_____	_____	_____	
Sapling/Shrub Stratum (Plot size: _____)				
1. <u>none</u>	_____	_____	_____	
2. _____	_____	_____	_____	
3. _____	_____	_____	_____	
4. _____	_____	_____	_____	
5. _____	_____	_____	_____	
Herb Stratum (Plot size: <u>10m²</u>)				
1. <u>Brassica sp.</u>	<u>5</u>	<u>N</u>	<u>UPL</u>	
2. <u>Malva parviflora</u>	<u>5</u>	<u>N</u>	<u>UPL</u>	
3. <u>Anagallis arvensis</u>	<u>15%</u>	<u>Y</u>	<u>UPL</u>	
4. <u>Croton ciliaris</u>	<u>25%</u>	<u>Y</u>	<u>UPL</u>	
5. _____	_____	_____	_____	
6. _____	_____	_____	_____	
7. _____	_____	_____	_____	
8. _____	_____	_____	_____	
Woody Vine Stratum (Plot size: _____)				
1. _____	_____	_____	_____	
2. _____	_____	_____	_____	
_____ = Total Cover				
% Bare Ground in Herb Stratum <u>20</u> % Cover of Biotic Crust _____				

Remarks:

Sampling Point: 37

[illegible]²Location: PL=Pore Lining, M=Matrix.

Indicators for Problematic Hydric Soils³:

- ³Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.

Hydric Soil Present? Yes _____ No X

Remarks: No hydric soil indicators observed.

☐ Surface Water (A1)	☐ Salt Crust (B11)	☐ Water Marks (B1) (Riverine)
☐ High Water Table (A2)	☐ Biotic Crust (B12)	☐ Sediment Deposits (B2) (Riverine)
☐ Saturation (A3)	☐ Aquatic Invertebrates (B13)	☐ Drift Deposits (B3) (Riverine)
☐ Water Marks (B1) (Nonriverine)	☐ Hydrogen Sulfide Odor (C1)	☒ Drainage Patterns (B10)
☐ Sediment Deposits (B2) (Nonriverine)	☐ Oxidized Rhizospheres along Living Roots (C3)	☐ Dry-Season Water Table (C2)
☐ Drift Deposits (B3) (Nonriverine)	☐ Presence of Reduced Iron (C4)	☐ Crayfish Burrows (C8)
☐ Surface Soil Cracks (B6)	☐ Recent Iron Reduction in Tilled Soils (C6)	☐ Saturation Visible on Aerial Imagery (C9)
☐ Inundation Visible on Aerial Imagery (B7)	☐ Thin Muck Surface (C7)	☐ Shallow Aquitard (D3)
☐ Water-Stained Leaves (B9)	☐ Other (Explain in Remarks)	☐ FAC-Neutral Test (D5)

Wetland Hydrology Present? Yes _____ No X

Remarks: Sample pt. in adjacent upland, outside of OTLW

WETLAND DETERMINATION DATA FORM – Arid West Region

Project/Site: Lilac Hills Ranch City/County: San Diego / SD Sampling Date: 1-11-12
 Applicant/Owner: Accretive Group State: CA Sampling Point: 38 (4)
 Investigator(s): G. Scheid Section, Township, Range: _____
 Landform (hillslope, terrace, etc.): Gully Local relief (concave, convex, none): Concave Slope (%): 0-5%
 Subregion (LRR): LRR-C Lat: _____ Long: _____ Datum: _____
 Soil Map Unit Name: Fallbrook sandy loam NWI classification: _____

Are climatic / hydrologic conditions on the site typical for this time of year? Yes X No _____ (If no, explain in Remarks.)
 Are Vegetation X, Soil _____, or Hydrology _____ significantly disturbed? yes Are "Normal Circumstances" present? Yes X No _____
 Are Vegetation _____, Soil _____, or Hydrology _____ naturally problematic? no (If needed, explain any answers in Remarks.)

SUMMARY OF FINDINGS – Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present?	Yes _____ No <u>Y</u>	Is the Sampled Area within a Wetland? Yes _____ No <u>X</u>
Hydric Soil Present?	Yes _____ No <u>+</u>	
Wetland Hydrology Present?	Yes _____ No <u>Y</u>	
Remarks: <u>Native vegetation disturbed due to agricultural activities.</u>		

VEGETATION – Use scientific names of plants.

Tree Stratum (Plot size: _____)	Absolute % Cover	Dominant Species?	Indicator Status	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>3</u> (B) Percent of Dominant Species That Are OBL, FACW, or FAC: <u>33%</u> (A/B)
1. <u>None</u>				
2. _____				
3. _____				
4. _____				
✓ = Total Cover				
Sapling/Shrub Stratum (Plot size: <u>10m²</u>)				Prevalence Index worksheet: Total % Cover of: _____ Multiply by: _____ OBL species _____ x 1 = _____ FACW species _____ x 2 = _____ FAC species <u>2</u> x 3 = <u>6</u> FACU species _____ x 4 = _____ UPL species <u>92</u> x 5 = <u>460</u> Column Totals: <u>94</u> (A) <u>466</u> (B) Prevalence Index = B/A = <u>4.8</u>
1. <u>Nicotiana glauca</u>	<u>2</u>	<u>Y</u>	<u>UPL</u>	
2. <u>Tamarix ramosissima</u>	<u>2</u>	<u>Y</u>	<u>FAC</u>	
3. _____				
4. _____				
5. _____				
4 = Total Cover				
Herb Stratum (Plot size: <u>10m²</u>)				Hydrophytic Vegetation Indicators: ___ Dominance Test is >50% ___ Prevalence Index is ≤3.0 ¹ ___ Morphological Adaptations ¹ (Provide supporting data in Remarks or on a separate sheet) ___ Problematic Hydrophytic Vegetation ¹ (Explain) ¹ Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.
1. <u>Rhaphanus sativus</u>	<u>10</u>	<u>N</u>	<u>UPL</u>	
2. <u>Brassica nigra</u>	<u>80</u>	<u>Y</u>	<u>UPL</u>	
3. _____				
4. _____				
5. _____				
6. _____				
7. _____				
8. _____				
90 = Total Cover				
Woody Vine Stratum (Plot size: _____)				Hydrophytic Vegetation Present? Yes _____ No <u>X</u>
1. _____				
2. _____				
✓ = Total Cover				
% Bare Ground in Herb Stratum <u>6</u>	% Cover of Biotic Crust <u>✓</u>			

Remarks:

SOIL

Sampling Point: 38

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

Depth (inches)	Matrix		Redox Features				Texture	Remarks
	Color (moist)	%	Color (moist)	%	Type ¹	Loc ²		
0-12	10YR 3/2	100%					Sandy loam	
12-18	7.5YR 3/3	100%					Sandy	

¹Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains.²Location: PL=Pore Lining, M=Matrix.

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

Indicators for Problematic Hydric Soils³:

- ☐ Histosol (A1)
☐ Histic Epipedon (A2)
☐ Black Histic (A3)
☐ Hydrogen Sulfide (A4)
☐ Stratified Layers (A5) (LRR C)
☐ 1 cm Muck (A9) (LRR D)
☐ Depleted Below Dark Surface (A11)
☐ Thick Dark Surface (A12)
☐ Sandy Mucky Mineral (S1)
☐ Sandy Gleyed Matrix (S4)
- ☐ Sandy Redox (S5)
☐ Stripped Matrix (S6)
☐ Loamy Mucky Mineral (F1)
☐ Loamy Gleyed Matrix (F2)
☐ Depleted Matrix (F3)
☐ Redox Dark Surface (F6)
☐ Depleted Dark Surface (F7)
☐ Redox Depressions (F8)
☐ Vernal Pools (F9)

- ☐ 1 cm Muck (A9) (LRR C)
☐ 2 cm Muck (A10) (LRR B)
☐ Reduced Vertic (F18)
☐ Red Parent Material (TF2)
☐ Other (Explain in Remarks)

³Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.

Restrictive Layer (if present):

Type: _____

Depth (inches): _____

Hydric Soil Present? Yes _____ No XRemarks: *No hydric soil indicators observed.*

HYDROLOGY

Wetland Hydrology Indicators:

Primary Indicators (minimum of one required; check all that apply)

- ☐ Surface Water (A1)
☐ High Water Table (A2)
☐ Saturation (A3)
☐ Water Marks (B1) (Nonriverine)
☐ Sediment Deposits (B2) (Nonriverine)
☐ Drift Deposits (B3) (Nonriverine)
☐ Surface Soil Cracks (B6)
☐ Inundation Visible on Aerial Imagery (B7)
☐ Water-Stained Leaves (B9)
- ☐ Salt Crust (B11)
☐ Biotic Crust (B12)
☐ Aquatic Invertebrates (B13)
☐ Hydrogen Sulfide Odor (C1)
☐ Oxidized Rhizospheres along Living Roots (C3)
☐ Presence of Reduced Iron (C4)
☐ Recent Iron Reduction in Tilled Soils (C6)
☐ Thin Muck Surface (C7)
☐ Other (Explain in Remarks)

Secondary indicators (2 or more required)

- ☐ Water Marks (B1) (Riverine)
☒ Sediment Deposits (B2) (Riverine)
☐ Drift Deposits (B3) (Riverine)
☐ Drainage Patterns (B10)
☐ Dry-Season Water Table (C2)
☐ Crayfish Burrows (C8)
☐ Saturation Visible on Aerial Imagery (C9)
☐ Shallow Aquitard (D3)
☐ FAC-Neutral Test (D5)

Field Observations:

Surface Water Present? Yes _____ No X Depth (inches): _____Water Table Present? Yes _____ No X Depth (inches): _____Saturation Present? Yes _____ No X Depth (inches): _____

(includes capillary fringe)

Wetland Hydrology Present? Yes _____ No X

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

Remarks: *Ephemeral drainage in orchard; tributary to main drainage.
 DHW is 15 ft wide; non-wetland water
 streambed*

WETLAND DETERMINATION DATA FORM – Arid West Region

Project/Site: Lilac Hills Ranch City/County: San Diego / SD Sampling Date: 1-11-12
 Applicant/Owner: Acetive Group State: CA Sampling Point: 39 ⑤
 Investigator(s): G. Schind Section, Township, Range: _____
 Landform (hillslope, terrace, etc.): valley bottom Local relief (concave, convex, none): concave Slope (%): 5-10%
 Subregion (LRR): LRR-C Lat: _____ Long: _____ Datum: _____
 Soil Map Unit Name: Fallbrook sandy loam NWI classification: _____

Are climatic / hydrologic conditions on the site typical for this time of year? Yes X No _____ (If no, explain in Remarks.)
 Are Vegetation _____, Soil _____, or Hydrology _____ significantly disturbed? No Are "Normal Circumstances" present? Yes X No _____
 Are Vegetation _____, Soil _____, or Hydrology _____ naturally problematic? No (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 <u>X</u> No _____	Is the Sampled Area within a Wetland? Yes <u>X</u> No _____
Hydric Soil Present?	Yes <u>X</u> No _____	
Wetland Hydrology Present?	Yes <u>X</u> No _____	
Remarks:		

VEGETATION – Use scientific names of plants.

Tree Stratum (Plot size: <u>10m²</u>)	Absolute % Cover	Dominant Species?	Indicator Status	Dominance Test worksheet: Number of Dominant Species That Are OBL, FACW, or FAC: <u>2</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>100</u> (A/B)
1. <u>Salix lasiophylla</u>	<u>100</u>	<u>Y</u>	<u>FACW</u>	
2. <u>Salix laurifolia</u>	<u>15</u>	<u>N</u>	<u>FACW</u>	
3. _____	_____	_____	_____	
4. _____	_____	_____	_____	
_____ = Total Cover				
Sapling/Shrub Stratum (Plot size: _____)				
1. <u>none</u>	_____	_____	_____	Prevalence Index worksheet: Total % Cover of: _____ Multiply by: OBL species _____ x 1 = _____ FACW species _____ x 2 = _____ FAC species _____ x 3 = _____ FACU species _____ x 4 = _____ UPL species _____ x 5 = _____ Column Totals: _____ (A) _____ (B) Prevalence Index = B/A = _____
2. _____	_____	_____	_____	
3. _____	_____	_____	_____	
4. _____	_____	_____	_____	
5. _____	_____	_____	_____	
_____ = Total Cover				
Herb Stratum (Plot size: <u>10m²</u>)				
1. <u>Rorippa nasturtium-aquaticum</u>	<u>15</u>	<u>Y</u>	<u>OBL</u>	Hydrophytic Vegetation Indicators: <u>X</u> Dominance Test is >50% ____ Prevalence Index is ≤3.0 ¹ ____ Morphological Adaptations ¹ (Provide supporting data in Remarks or on a separate sheet) ____ Problematic Hydrophytic Vegetation ¹ (Explain) ¹ Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.
2. <u>Cynodon dactylon</u>	<u>5</u>	<u>N</u>	<u>FACU</u>	
3. <u>Rumex crispus</u>	<u>2</u>	<u>N</u>	<u>FACW</u>	
4. _____	<u>2</u>	_____	_____	
5. _____	_____	_____	_____	
6. _____	_____	_____	_____	
7. _____	_____	_____	_____	
8. _____	_____	_____	_____	
_____ = Total Cover				
Woody Vine Stratum (Plot size: _____)				
1. _____	_____	_____	_____	Hydrophytic Vegetation Present? Yes <u>X</u> No _____
2. _____	_____	_____	_____	
_____ = Total Cover				
% Bare Ground in Herb Stratum <u>3</u> % Cover of Biotic Crust <u>✓</u>				

Remarks:

Sampling Point: 39

HYDROLOGY

Primary Indicators (minimum of one required; check all that apply)

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

US Army Corps of Engineers

WETLAND DETERMINATION DATA FORM – Arid West Region

Project/Site: Lilac Hills Ranch City/County: San Diego / SD Sampling Date: 1-11-12
 Applicant/Owner: Accretive Group State: CA Sampling Point: 40 (C)
 Investigator(s): G. Schindler Section, Township, Range: _____
 Landform (hillslope, terrace, etc.): valley bottom Local relief (concave, convex, none): Concave Slope (%): 5-10%
 Subregion (LRR): LRR-C Lat: _____ Long: _____ Datum: _____
 Soil Map Unit Name: Fallbrook sandy loam NWI classification: _____

Are climatic / hydrologic conditions on the site typical for this time of year? Yes X No _____ (If no, explain in Remarks.)
 Are Vegetation _____, Soil _____, or Hydrology _____ significantly disturbed? No Are "Normal Circumstances" present? Yes X No _____
 Are Vegetation _____, Soil _____, or Hydrology _____ naturally problematic? No (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 <u>X</u> No _____	Is the Sampled Area within a Wetland? Yes <u>X</u> No _____
Hydric Soil Present?	Yes <u>X</u> No _____	
Wetland Hydrology Present?	Yes <u>X</u> No _____	
Remarks:		

VEGETATION – Use scientific names of plants.

Tree Stratum (Plot size: <u>10m²</u>)	Absolute % Cover	Dominant Species?	Indicator Status	Dominance Test worksheet:
1. <u>Salix lasiolepis</u>	<u>60</u>	<u>Y</u>	<u>FACW</u>	
2. <u>Eucalyptus sp.</u>	<u>30</u>	<u>Y</u>	<u>UPL</u>	Total Number of Dominant Species Across All Strata: <u>2</u> (B)
3. <u>Washingtonia robusta</u>	<u>5</u>	<u>N</u>	<u>FAC</u>	Percent of Dominant Species That Are OBL, FACW, or FAC: <u>50</u> (A/B)
4. _____				
<u>95</u> = Total Cover				
Sapling/Shrub Stratum (Plot size: _____)				Prevalence Index worksheet:
1. <u>none</u>				
2. _____				OBL species _____ x 1 = _____
3. _____				FACW species <u>60</u> x 2 = <u>120</u>
4. _____				FAC species <u>5</u> x 3 = <u>15</u>
5. _____				FACU species _____ x 4 = _____
<u>—</u> = Total Cover				UPL species <u>30</u> x 5 = <u>150</u>
				Column Totals: <u>95</u> (A) <u>285</u> (B)
				Prevalence Index = B/A = <u>3</u>
Herb Stratum (Plot size: _____)				Hydrophytic Vegetation Indicators:
1. <u>none</u>				
2. _____				<u>X</u> Prevalence Index is ≤3.0 ¹
3. _____				_____ Morphological Adaptations ¹ (Provide supporting data in Remarks or on a separate sheet)
4. _____				_____ Problematic Hydrophytic Vegetation ¹ (Explain)
5. _____				
6. _____				
7. _____				
8. _____				
<u>—</u> = Total Cover				
Woody Vine Stratum (Plot size: _____)				¹ Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.
1. _____				
2. _____				
<u>—</u> = Total Cover				
% Bare Ground in Herb Stratum <u>5</u> % Cover of Biotic Crust <u>—</u>				Hydrophytic Vegetation Present? Yes <u>X</u> No _____

Remarks:

SOIL

Sampling Point: 40

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

[illegible]

¹Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains. ²Location: PL=Pore Lining, M=Matrix.

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

Indicators for Problematic Hydric Soils³:

- | | | |
|--|--|---|
| ☐ Histosol (A1) | ☐ Sandy Redox (S5) | ☐ 1 cm Muck (A9) (LRR C) |
| ☐ Histic Epipedon (A2) | ☐ Stripped Matrix (S6) | ☐ 2 cm Muck (A10) (LRR B) |
| ☐ Black Histic (A3) | ☐ Loamy Mucky Mineral (F1) | ☐ Reduced Vertic (F18) |
| ☒ Hydrogen Sulfide (A4) | ☐ Loamy Gleyed Matrix (F2) | ☐ Red Parent Material (TF2) |
| ☐ Stratified Layers (A5) (LRR C) | ☒ Depleted Matrix (F3) | ☐ Other (Explain in Remarks) |
| ☐ 1 cm Muck (A9) (LRR D) | ☐ Redox Dark Surface (F6) | |
| ☐ Depleted Below Dark Surface (A11) | ☐ Depleted Dark Surface (F7) | |
| ☐ Thick Dark Surface (A12) | ☐ Redox Depressions (F8) | |
| ☐ Sandy Mucky Mineral (S1) | ☐ Vernal Pools (F9) | |
| ☐ Sandy Gleyed Matrix (S4) | | |
- ³Indicators of hydrophytic vegetation wetland hydrology must be present unless disturbed or problem area

³Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.

Restrictive Layer (if present):

Type: _____

Depth (inches): _____

Hydric Soil Present? Yes ☒ No ☐

Remarks:

HYDROLOGY

Wetland Hydrology Indicators:

Primary Indicators (minimum of one required; check all that apply)

Secondary Indicators (2 or more required)

- | | | |
|--|--|---|
| ☒ Surface Water (A1) | ☐ Salt Crust (B11) | ☐ Water Marks (B1) (Riverine) |
| ☒ High Water Table (A2) | ☐ Biotic Crust (B12) | ☐ Sediment Deposits (B2) (Riverine) |
| ☒ Saturation (A3) | ☐ Aquatic Invertebrates (B13) | ☐ Drift Deposits (B3) (Riverine) |
| ☐ Water Marks (B1) (Nonriverine) | ☐ Hydrogen Sulfide Odor (C1) | ☐ Drainage Patterns (B10) |
| ☐ Sediment Deposits (B2) (Nonriverine) | ☐ Oxidized Rhizospheres along Living Roots (C3) | ☐ Dry-Season Water Table (C2) |
| ☐ Drift Deposits (B3) (Nonriverine) | ☐ Presence of Reduced Iron (C4) | ☐ Crayfish Burrows (C8) |
| ☐ Surface Soil Cracks (B6) | ☐ Recent Iron Reduction in Tilled Soils (C6) | ☐ Saturation Visible on Aerial Imagery (C9) |
| ☐ Inundation Visible on Aerial Imagery (B7) | ☐ Thin Muck Surface (C7) | ☐ Shallow Aquitard (D3) |
| ☐ Water-Stained Leaves (B9) | ☐ Other (Explain in Remarks) | ☐ FAC-Neutral Test (D5) |

Field Observations:

Surface Water Present? Yes ☒ No ☐ Depth (inches): 3

Water Table Present? Yes ☒ No ☐ Depth (inches): 1

Saturation Present? Yes ☒ No ☐ Depth (inches): 0
(includes capillary fringe)

Wetland Hydrology Present? Yes ☒ No ☐

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

Remarks: Sample point in intermittent stream 0.75m $\pm$ 20 ft wide

WETLAND DETERMINATION DATA FORM – Arid West Region

Project/Site: Lilac Hills Ranch City/County: San Diego / SD Sampling Date: 1-11-12
 Applicant/Owner: Accretive Group State: CA Sampling Point: 41 ④
 Investigator(s): G. Scheid Section, Township, Range: _____
 Landform (hillslope, terrace, etc.): valley bottom Local relief (concave, convex, none): concave Slope (%): 5-10%
 Subregion (LRR): LRR-C Lat: _____ Long: _____ Datum: _____
 Soil Map Unit Name: Fallbrook sandy loam NWI classification: _____

Are climatic / hydrologic conditions on the site typical for this time of year? Yes X No _____ (If no, explain in Remarks.)
 Are Vegetation _____, Soil _____, or Hydrology _____ significantly disturbed? No Are "Normal Circumstances" present? Yes X No _____
 Are Vegetation _____, Soil _____, or Hydrology _____ naturally problematic? No (If needed, explain any answers in Remarks.)

SUMMARY OF FINDINGS – Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present? Yes _____ No _____	Hydric Soil Present? Yes _____ No _____	Wetland Hydrology Present? Yes _____ No _____	Is the Sampled Area within a Wetland? Yes _____ No _____
Remarks: _____			

VEGETATION – Use scientific names of plants.

Tree Stratum (Plot size: <u>10m²</u>)	Absolute % Cover	Dominant Species?	Indicator Status	Dominance Test worksheet:
1. <u>Quercus agrifolia</u>	<u>40</u>	<u>Y</u>	<u>UPL</u>	Number of Dominant Species That Are OBL, FACW, or FAC: <u>1</u> (A)
2. <u>Washingtonia robusta</u>	<u>5</u>	<u>N</u>	<u>FAC</u>	Total Number of Dominant Species Across All Strata: <u>2</u> (B)
3. <u>Salvia lasiophylla</u>	<u>10</u>	<u>N</u>	<u>FACW</u>	Percent of Dominant Species That Are OBL, FACW, or FAC: <u>50</u> (A/B)
4. _____				
<u>55</u> = Total Cover				
Sapling/Shrub Stratum (Plot size: _____)				Prevalence Index worksheet:
1. <u>none</u>				Total % Cover of: _____ Multiply by: _____
2. _____				OBL species _____ x 1 = _____
3. _____				FACW species <u>10</u> x 2 = <u>20</u>
4. _____				FAC species <u>45</u> x 3 = <u>135</u>
5. _____				FACU species _____ x 4 = _____
				UPL species <u>40</u> x 5 = <u>200</u>
				Column Totals: <u>95</u> (A) <u>355</u> (B)
				Prevalence Index = B/A = <u>3.7</u>
Herb Stratum (Plot size: _____)				Hydrophytic Vegetation Indicators:
1. <u>none</u>				___ Dominance Test is >50%
2. _____				___ Prevalence Index is ≤3.0 ¹
3. _____				___ Morphological Adaptations ¹ (Provide supporting data in Remarks or on a separate sheet)
4. _____				___ Problematic Hydrophytic Vegetation ¹ (Explain)
5. _____				
6. _____				
7. _____				
8. _____				
				¹ Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.
Woody Vine Stratum (Plot size: _____)				Hydrophytic Vegetation Present? Yes _____ No <u>X</u>
1. <u>Vitis californiana</u>	<u>40</u>	<u>Y</u>	<u>FAC</u>	
2. _____				
<u>40</u> = Total Cover				
% Bare Ground in Herb Stratum <u>5</u>	% Cover of Biotic Crust _____			

Remarks: _____

Sampling Point: 41

HYDROLOGY

Arid West – Version 2.0

WETLAND DETERMINATION DATA FORM – Arid West Region

Project/Site: Lilac Hills Ranch City/County: San Diego / SD Sampling Date: 2-14-12
 Applicant/Owner: Accretive Group State: CA Sampling Point: 420
 Investigator(s): G. Scheid Section, Township, Range: _____
 Landform (hillslope, terrace, etc.): Steep slope Local relief (concave, convex, none): Convex Slope (%): 10%
 Subregion (LRR): LRR-C Lat: _____ Long: _____ Datum: _____
 Soil Map Unit Name: Steep gullied Land NWI classification: _____

Are climatic / hydrologic conditions on the site typical for this time of year? Yes X No _____ (If no, explain in Remarks.)
 Are Vegetation X, Soil _____, or Hydrology _____ significantly disturbed? Yes Are "Normal Circumstances" present? Yes X No _____
 Are Vegetation _____, Soil _____, or Hydrology _____ naturally problematic? No (If needed, explain any answers in Remarks.)

SUMMARY OF FINDINGS – Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present?	Yes _____ No <u>X</u>	Is the Sampled Area within a Wetland? Yes _____ No <u>X</u>
Hydric Soil Present?	Yes _____ No <u>X</u>	
Wetland Hydrology Present?	Yes _____ No <u>X</u>	
Remarks: <u>native vegetation recently disturbed either by fire or clearing.</u>		

VEGETATION – Use scientific names of plants.

Tree Stratum (Plot size: _____)	Absolute % Cover	Dominant Species?	Indicator Status	Dominance Test worksheet:
1. <u>None</u>				
2. _____				Total Number of Dominant Species Across All Strata: <u>2</u> (B)
3. _____				Percent of Dominant Species That Are OBL, FACW, or FAC: <u>0</u> (A/B)
4. _____				
= Total Cover				
Sapling/Shrub Stratum (Plot size: <u>20m²</u>)				
1. <u>Xylococcus bicolor</u>	<u>20</u>	<u>Y</u>	<u>UPL</u>	Prevalence Index worksheet: Total % Cover of: _____ Multiply by: _____ OBL species _____ x 1 = _____ FACW species _____ x 2 = _____ FAC species _____ x 3 = _____ FACU species _____ x 4 = _____ UPL species <u>75</u> x 5 = <u>325</u> Column Totals: <u>75</u> (A) <u>325</u> (B) Prevalence Index = B/A = <u>4.3</u>
2. _____				
3. _____				
4. _____				
5. _____				
= Total Cover				
Herb Stratum (Plot size: <u>20m²</u>)				
1. <u>Bromus sp.</u>	<u>40</u>	<u>Y</u>	<u>UPL</u>	Hydrophytic Vegetation Indicators: _____ Dominance Test is >50% _____ Prevalence Index is ≤3.0 ¹ _____ Morphological Adaptations ¹ (Provide supporting data in Remarks or on a separate sheet) _____ Problematic Hydrophytic Vegetation ¹ (Explain) ¹ Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.
2. <u>Stipa pulchra</u>	<u>10</u>	<u>N</u>	<u>UPL</u>	
3. <u>Salsola tragus</u>	<u>5</u>	<u>N</u>	<u>UPL</u>	
4. _____				
5. _____				
6. _____				
7. _____				
8. _____				
= Total Cover				
Woody Vine Stratum (Plot size: _____)				
1. _____				Hydrophytic Vegetation Present? Yes _____ No <u>X</u>
2. _____				
= Total Cover				
% Bare Ground in Herb Stratum <u>25</u> % Cover of Biotic Crust _____				

Remarks:

SOIL

Sampling Point: 4/2

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

[illegible]

¹Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains.

²Location: PL=Pore Lining, M=Matrix.

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

Indicators for Problematic Hydric Soils³:

- | | |
|--|---|
| ☐ Histosol (A1) | ☐ Sandy Redox (S5) |
| ☐ Histic Epipedon (A2) | ☐ Stripped Matrix (S6) |
| ☐ Black Histic (A3) | ☐ Loamy Mucky Mineral (F1) |
| ☐ Hydrogen Sulfide (A4) | ☐ Loamy Gleyed Matrix (F2) |
| ☐ Stratified Layers (A5) (LRR C) | ☐ Depleted Matrix (F3) |
| ☐ 1 cm Muck (A9) (LRR D) | ☐ Redox Dark Surface (F6) |
| ☐ Depleted Below Dark Surface (A11) | ☐ Depleted Dark Surface (F7) |
| ☐ Thick Dark Surface (A12) | ☐ Redox Depressions (F8) |
| ☐ Sandy Mucky Mineral (S1) | ☐ Vernal Pools (F9) |
| ☐ Sandy Gleyed Matrix (S4) | |

- ☐ 1 cm Muck (A9) (**LRR C**)
☐ 2 cm Muck (A10) (**LRR B**)
☐ Reduced Vertic (F18)
☐ Red Parent Material (TF2)
☐ Other (Explain in Remarks)

^a Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.

Restrictive Layer (if present):

Type: _____

Depth (inches): _____

Hydric Soil Present? Yes _____ No X

Remarks: No hydric soils indicators observed

HYDROLOGY

Wetland Hydrology Indicators:

Primary Indicators (minimum of one required; check all that apply)

Secondary Indicators (2 or more required)

- | | | |
|--|--|---|
| ☐ Surface Water (A1) | ☐ Salt Crust (B11) | ☐ Water Marks (B1) (Riverine) |
| ☐ High Water Table (A2) | ☐ Biotic Crust (B12) | ☐ Sediment Deposits (B2) (Riverine) |
| ☐ Saturation (A3) | ☐ Aquatic Invertebrates (B13) | ☐ Drift Deposits (B3) (Riverine) |
| ☐ Water Marks (B1) (Nonriverine) | ☐ Hydrogen Sulfide Odor (C1) | ☒ Drainage Patterns (B10) |
| ☐ Sediment Deposits (B2) (Nonriverine) | ☐ Oxidized Rhizospheres along Living Roots (C3) | ☐ Dry-Season Water Table (C2) |
| ☐ Drift Deposits (B3) (Nonriverine) | ☐ Presence of Reduced Iron (C4) | ☐ Crayfish Burrows (C8) |
| ☐ Surface Soil Cracks (B6) | ☐ Recent Iron Reduction in Tilled Soils (C6) | ☐ Saturation Visible on Aerial Imagery (C9) |
| ☐ Inundation Visible on Aerial Imagery (B7) | ☐ Thin Muck Surface (C7) | ☐ Shallow Aquitard (D3) |
| ☐ Water-Stained Leaves (B9) | ☐ Other (Explain in Remarks) | ☐ FAC-Neutral Test (D5) |

Field Observations:

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

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

Saturation Present? Yes _____ No X Depth (inches): _____

(includes capillary fringe)

Wetland Hydrology Present? Yes _____ No X

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

Remarks: No hydrology indicators observed. Sample area a series of steep ephemeral drainages. OTWm ~ 3-5 ft wide non-wetland water, stream bed

WETLAND DETERMINATION DATA FORM – Arid West Region

Project/Site: Lilac Hills Ranch City/County: San Diego, SDigo Sampling Date: 2-14-12
 Applicant/Owner: Accretive Group State: CA Sampling Point: 413 (2)
 Investigator(s): G. Scheid Section, Township, Range: _____
 Landform (hillslope, terrace, etc.): gully bottom Local relief (concave, convex, none): concave Slope (%): 0-5
 Subregion (LRR): LRR-C Lat: _____ Long: _____ Datum: _____
 Soil Map Unit Name: Steep gullied land NWI classification: _____

Are climatic / hydrologic conditions on the site typical for this time of year? Yes X No _____ (If no, explain in Remarks.)
 Are Vegetation _____, Soil _____, or Hydrology _____ significantly disturbed? No Are "Normal Circumstances" present? Yes X No _____
 Are Vegetation _____, Soil _____, or Hydrology _____ naturally problematic? No (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 <u>X</u> No _____	Is the Sampled Area within a Wetland? Yes <u>X</u> No _____
Hydric Soil Present?	Yes <u>X</u> No _____	
Wetland Hydrology Present?	Yes <u>X</u> No _____	
Remarks:		

VEGETATION – Use scientific names of plants.

Tree Stratum (Plot size: <u>20m²</u>)	Absolute % Cover	Dominant Species?	Indicator Status	Dominance Test worksheet: Number of Dominant Species That Are OBL, FACW, or FAC: <u>3</u> (A) Total Number of Dominant Species Across All Strata: <u>3</u> (B) Percent of Dominant Species That Are OBL, FACW, or FAC: <u>100</u> (A/B)
1. <u>Salix gooddingii</u>	<u>30</u>	<u>Y</u>	<u>FACW</u>	
2. _____	_____	_____	_____	Prevalence Index worksheet: Total % Cover of: _____ Multiply by: _____ OBL species _____ x 1 = _____ FACW species _____ x 2 = _____ FAC species _____ x 3 = _____ FACU species _____ x 4 = _____ UPL species _____ x 5 = _____ Column Totals: _____ (A) _____ (B) Prevalence Index = B/A = _____
3. _____	_____	_____	_____	
4. _____	_____	_____	_____	
5. _____	_____	_____	_____	
Sapling/Shrub Stratum (Plot size: _____)				Prevalence Index = B/A = _____
1. <u>none</u>	_____	_____	_____	
2. _____	_____	_____	_____	
3. _____	_____	_____	_____	
Herb Stratum (Plot size: <u>20m²</u>)				Hydrophytic Vegetation Indicators: <u>X</u> Dominance Test is >50% ____ Prevalence Index is ≤3.0 ¹ ____ Morphological Adaptations ¹ (Provide supporting data in Remarks or on a separate sheet) ____ Problematic Hydrophytic Vegetation ¹ (Explain)
1. <u>Ludwigia peploides</u>	<u>40</u>	<u>Y</u>	<u>OBL</u>	
2. <u>Scirpus robustus</u>	<u>20</u>	<u>Y</u>	<u>OBL</u>	
3. _____	_____	_____	_____	
Woody Vine Stratum (Plot size: _____)				¹ Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.
1. _____	_____	_____	_____	
2. _____	_____	_____	_____	
3. _____	_____	_____	_____	
% Bare Ground in Herb Stratum <u>10</u> % Cover of Biotic Crust _____				Hydrophytic Vegetation Present? Yes <u>X</u> No _____

Remarks:

SOIL

Sampling Point: 43

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

Depth (inches)	Matrix		Redox Features		Type ¹	Loc ²	Texture	Remarks
	Color (moist)	%	Color (moist)	%				
0-8	10YR 3/2	80	5YR 6/8	20	Rm	m	loamy clay	
8-16	10YR 3/1	90	5YR 6/8	10	Rm	m	" "	

¹Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains.²Location: PL=Pore Lining, M=Matrix.

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

Indicators for Problematic Hydric Soils³:

- ☐ Histosol (A1)
☐ Histic Epipedon (A2)
☐ Black Histic (A3)
☐ Hydrogen Sulfide (A4)
☐ Stratified Layers (A5) (LRR C)
☐ 1 cm Muck (A9) (LRR D)
☐ Depleted Below Dark Surface (A11)
☐ Thick Dark Surface (A12)
☐ Sandy Mucky Mineral (S1)
☐ Sandy Gleyed Matrix (S4)
- ☐ Sandy Redox (S5)
☐ Stripped Matrix (S6)
☐ Loamy Mucky Mineral (F1)
☐ Loamy Gleyed Matrix (F2)
☒ Depleted Matrix (F3)
☐ Redox Dark Surface (F6)
☐ Depleted Dark Surface (F7)
☐ Redox Depressions (F8)
☐ Vernal Pools (F9)

- ☐ 1 cm Muck (A9) (LRR C)
☐ 2 cm Muck (A10) (LRR B)
☐ Reduced Vertic (F18)
☐ Red Parent Material (TF2)
☐ Other (Explain in Remarks)

³Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.

Restrictive Layer (if present):

Type: _____

Depth (inches): _____

Hydric Soil Present? Yes ☒ No ☐

Remarks:

HYDROLOGY

Wetland Hydrology Indicators:

Primary Indicators (minimum of one required; check all that apply)

- ☒ Surface Water (A1)
☒ High Water Table (A2)
☒ Saturation (A3)
☐ Water Marks (B1) (Nonriverine)
☐ Sediment Deposits (B2) (Nonriverine)
☐ Drift Deposits (B3) (Nonriverine)
☐ Surface Soil Cracks (B6)
☐ Inundation Visible on Aerial Imagery (B7)
☐ Water-Stained Leaves (B9)
- ☐ Salt Crust (B11)
☐ Biotic Crust (B12)
☐ Aquatic Invertebrates (B13)
☐ Hydrogen Sulfide Odor (C1)
☐ Oxidized Rhizospheres along Living Roots (C3)
☐ Presence of Reduced Iron (C4)
☐ Recent Iron Reduction in Tilled Soils (C6)
☐ Thin Muck Surface (C7)
☐ Other (Explain in Remarks)

Secondary Indicators (2 or more required)

- ☐ Water Marks (B1) (Riverine)
☐ Sediment Deposits (B2) (Riverine)
☐ Drift Deposits (B3) (Riverine)
☐ Drainage Patterns (B10)
☐ Dry-Season Water Table (C2)
☐ Crayfish Burrows (C8)
☐ Saturation Visible on Aerial Imagery (C9)
☐ Shallow Aquitard (D3)
☐ FAC-Neutral Test (D5)

Field Observations:

Surface Water Present? Yes ☒ No ☐ Depth (inches): 12Water Table Present? Yes ☒ No ☐ Depth (inches): 0Saturation Present? Yes ☒ No ☐ Depth (inches): 8
(includes capillary fringe)Wetland Hydrology Present? Yes ☒ No ☐

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

Remarks:

Sample point in impounded area of drainage.

WETLAND DETERMINATION DATA FORM – Arid West Region

Project/Site: Lilac Hills Ranch City/County: San Diego / San Diego Sampling Date: 2-14-12
 Applicant/Owner: Accretive Group State: CA Sampling Point: 44 ⑤
 Investigator(s): G-Scheidl Section, Township, Range: _____
 Landform (hillslope, terrace, etc.): gully Local relief (concave, convex, none): Concave Slope (%): 0-5
 Subregion (LRR): LRR-C Lat: _____ Long: _____ Datum: _____
 Soil Map Unit Name: Steep gullied land NWI classification: _____

Are climatic / hydrologic conditions on the site typical for this time of year? Yes X No _____ (If no, explain in Remarks.)
 Are Vegetation _____, Soil _____, or Hydrology _____ significantly disturbed? No Are "Normal Circumstances" present? Yes X No _____
 Are Vegetation _____, Soil _____, or Hydrology _____ naturally problematic? No (If needed, explain any answers in Remarks.)

SUMMARY OF FINDINGS – Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present?	Yes _____ No <u>X</u>	Is the Sampled Area within a Wetland? Yes _____ No <u>X</u>
Hydric Soil Present?	Yes _____ No <u>X</u>	
Wetland Hydrology Present?	Yes _____ No <u>X</u>	
Remarks:		

VEGETATION – Use scientific names of plants.

Tree Stratum (Plot size: <u>20m²</u>)	Absolute % Cover	Dominant Species?	Indicator Status	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</u> (A/B)
1. <u>Quercus agrifolia</u>	<u>70</u>	<u>y</u>	<u>UPL</u>	
2. _____	_____	_____	_____	Prevalence Index worksheet: Total % Cover of: _____ Multiply by: _____ OBL species _____ x 1 = _____ FACW species _____ x 2 = _____ FAC species <u>25</u> x 3 = <u>75</u> FACU species _____ x 4 = _____ UPL species <u>70</u> x 5 = <u>350</u> Column Totals: <u>95</u> (A) <u>425</u> (B) Prevalence Index = B/A = <u>4.4</u>
3. _____	_____	_____	_____	
4. _____	_____	_____	_____	Hydrophytic Vegetation Indicators: _____ Dominance Test is >50% _____ Prevalence Index is ≤3.0 ¹ _____ Morphological Adaptations ¹ (Provide supporting data in Remarks or on a separate sheet) _____ Problematic Hydrophytic Vegetation ¹ (Explain)
5. _____	_____	_____	_____	
= Total Cover				¹ Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.
Sapling/Shrub Stratum (Plot size: _____)				
1. <u>none</u>	_____	_____	_____	Hydrophytic Vegetation Present? Yes _____ No <u>X</u>
2. _____	_____	_____	_____	
3. _____	_____	_____	_____	% Bare Ground in Herb Stratum <u>5</u> % Cover of Biotic Crust _____
4. _____	_____	_____	_____	
5. _____	_____	_____	_____	Remarks:
= Total Cover				
Herb Stratum (Plot size: <u>20m²</u>)				
1. <u>Conium maculatum</u>	<u>25</u>	<u>y</u>	<u>FAC</u>	
2. _____	_____	_____	_____	
3. _____	_____	_____	_____	
4. _____	_____	_____	_____	
5. _____	_____	_____	_____	
6. _____	_____	_____	_____	
7. _____	_____	_____	_____	
8. _____	_____	_____	_____	
= Total Cover				
Woody Vine Stratum (Plot size: _____)				
1. _____	_____	_____	_____	
2. _____	_____	_____	_____	
= Total Cover				

Sampling Point: 44

[illegible]Indicators for Problematic Hydric Soils³:

- ³Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.

Hydric Soil Present? Yes No X

HYDROLOGY

Secondary Indicators (2 or more required)

- Wetland Hydrology Present? Yes _____ No X

Remarks: Ephemeral drainage in oak riparian woodland.
non-wetland water

WETLAND DETERMINATION DATA FORM – Arid West Region

Project/Site: Lilac Hills Ranch City/County: San Diego / SD Sampling Date: 2-14-12
 Applicant/Owner: Accreative Group State: CA Sampling Point: 45 (4)
 Investigator(s): G. Schiel Section, Township, Range: _____
 Landform (hillslope, terrace, etc.): Sully Local relief (concave, convex, none): concave Slope (%): 0-5
 Subregion (LRR): LRR-C Lat: _____ Long: _____ Datum: _____
 Soil Map Unit Name: Steep gullied land NWI classification: _____

Are climatic / hydrologic conditions on the site typical for this time of year? Yes X No _____ (If no, explain in Remarks.)
 Are Vegetation X, Soil _____, or Hydrology _____ significantly disturbed? yes Are "Normal Circumstances" present? Yes X No _____
 Are Vegetation _____, Soil _____, or Hydrology _____ naturally problematic? No (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 <u>X</u> No _____	Is the Sampled Area within a Wetland? Yes <u>X</u> No _____
Hydric Soil Present?	Yes <u>X</u> No _____	
Wetland Hydrology Present?	Yes <u>X</u> No _____	
Remarks: <u>Native vegetation moderately disturbed due to partial clearing and green waste dumping.</u>		

VEGETATION – Use scientific names of plants.

Tree Stratum (Plot size: _____)	Absolute % Cover	Dominant Species?	Indicator Status	Dominance Test worksheet:
1. <u>None</u>				Number of Dominant Species That Are OBL, FACW, or FAC: <u>2</u> (A)
2. _____				Total Number of Dominant Species Across All Strata: <u>2</u> (B)
3. _____				Percent of Dominant Species That Are OBL, FACW, or FAC: <u>100</u> (A/B)
4. _____				
				Prevalence Index worksheet:
Sapling/Shrub Stratum (Plot size: <u>10m²</u>)				Total % Cover of: _____ Multiply by: _____
1. <u>Baccharis salicifolia</u>	<u>60</u>	<u>Y</u>	<u>FACW</u>	OBL species _____ x 1 = _____
2. _____				FACW species _____ x 2 = _____
3. _____				FAC species _____ x 3 = _____
4. _____				FACU species _____ x 4 = _____
5. _____				UPL species _____ x 5 = _____
				Column Totals: _____ (A) _____ (B)
				Prevalence Index = B/A = _____
Herb Stratum (Plot size: _____)				Hydrophytic Vegetation Indicators:
1. <u>Conium maculatum</u>	<u>30</u>	<u>Y</u>	<u>FAC</u>	<u>X</u> Dominance Test is >50%
2. _____				Prevalence Index is ≤3.0 ¹
3. _____				Morphological Adaptations ¹ (Provide supporting data in Remarks or on a separate sheet)
4. _____				Problematic Hydrophytic Vegetation ¹ (Explain)
5. _____				
6. _____				
7. _____				
8. _____				
				¹ Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.
Woody Vine Stratum (Plot size: _____)				Hydrophytic Vegetation Present? Yes <u>X</u> No _____
1. _____				
2. _____				
% Bare Ground in Herb Stratum <u>10</u> % Cover of Biotic Crust _____				

Remarks:

Sampling Point: 45

[illegible]

Indicators for Problematic Hydric Soils³:

- ³Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.

Hydric Soil Present? Yes X No

HYDROLOGY

Secondary Indicators (2 or more required)

- Wetland Hydrology Present? Yes
- X
- No
-

Remarks: Ephemeral drainage, disturbed - cottonwood

WETLAND DETERMINATION DATA FORM – Arid West Region

Project/Site: Lilac Hills Ranch City/County: San Diego / San Diego Sampling Date: 2-14-12
 Applicant/Owner: Accretive Group State: _____ Sampling Point: 46 6
 Investigator(s): G. Scheid Section, Township, Range: _____
 Landform (hillslope, terrace, etc.): gully Local relief (concave, convex, none): concave Slope (%): 5
 Subregion (LRR): LRR-C Lat: _____ Long: _____ Datum: _____
 Soil Map Unit Name: Steep Gullied Land NWI classification: _____

Are climatic / hydrologic conditions on the site typical for this time of year? Yes X No _____ (If no, explain in Remarks.)
 Are Vegetation X, Soil _____, or Hydrology _____ significantly disturbed? yes Are "Normal Circumstances" present? Yes X No _____
 Are Vegetation _____, Soil _____, or Hydrology _____ naturally problematic? No (If needed, explain any answers in Remarks.)

SUMMARY OF FINDINGS – Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present? Yes _____ No _____	Is the Sampled Area within a Wetland? Yes _____ No _____
Hydric Soil Present? Yes _____ No _____	
Wetland Hydrology Present? Yes _____ No _____	
Remarks: <u>Vegetation in understory disturbed from clearing, green waste/trash dumping</u>	

VEGETATION – Use scientific names of plants.

Tree Stratum (Plot size: <u>20m²</u>)	Absolute % Cover	Dominant Species?	Indicator Status	Dominance Test worksheet: Number of Dominant Species That Are OBL, FACW, or FAC: <u>2</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>100</u> (A/B)
1. <u>Salix laevigata</u>	<u>75</u>	<u>X</u>	<u>FACW</u>	
2. _____	_____	_____	_____	
3. _____	_____	_____	_____	
4. _____	_____	_____	_____	
Sapling/Shrub Stratum (Plot size: _____) 1. <u>none</u> 2. _____ 3. _____ 4. _____ 5. _____ _____ = Total Cover				Prevalence Index worksheet: Total % Cover of: _____ Multiply by: _____ OBL species _____ x 1 = _____ FACW species _____ x 2 = _____ FAC species _____ x 3 = _____ FACU species _____ x 4 = _____ UPL species _____ x 5 = _____ Column Totals: _____ (A) _____ (B) Prevalence Index = B/A = _____
Herb Stratum (Plot size: <u>20m²</u>) 1. <u>Cornus maculatum</u> 2. _____ 3. _____ 4. _____ 5. _____ 6. _____ 7. _____ 8. _____ _____ = Total Cover				
Woody Vine Stratum (Plot size: _____) 1. _____ 2. _____ _____ = Total Cover				
% Bare Ground in Herb Stratum <u>10</u> % Cover of Biotic Crust _____				
Hydrophytic Vegetation Indicators: <u>X</u> Dominance Test is >50% _____ Prevalence Index is ≤3.0 ¹ _____ Morphological Adaptations ¹ (Provide supporting data in Remarks or on a separate sheet) _____ Problematic Hydrophytic Vegetation ¹ (Explain)				
Hydrophytic Vegetation Present? Yes <u>X</u> No _____				

Remarks:

Sampling Point: 26

[illegible]

Indicators for Problematic Hydric Soils³:

- ³Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.

Hydric Soil Present? Yes X No

Arid West – Version 2.0

WETLAND DETERMINATION DATA FORM – Arid West Region

Project/Site: Lilac Hills Ranch City/County: San Diego / SD Sampling Date: 3/21/12
 Applicant/Owner: Accretive Group State: CA Sampling Point: 47 ①
 Investigator(s): G. Scheid Section, Township, Range: _____
 Landform (hillslope, terrace, etc.): Slope - gully Local relief (concave, convex, none): concave Slope (%): 5-10%
 Subregion (LRR): LRR-C Lat: _____ Long: _____ Datum: _____
 Soil Map Unit Name: Steep Gullied Land NWI classification: _____
 Are climatic / hydrologic conditions on the site typical for this time of year? Yes X No _____ (If no, explain in Remarks.)
 Are Vegetation X, Soil _____, or Hydrology _____ significantly disturbed? yes Are "Normal Circumstances" present? Yes X No _____
 Are Vegetation _____, Soil _____, or Hydrology _____ naturally problematic? No (If needed, explain any answers in Remarks.)

SUMMARY OF FINDINGS – Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present?	Yes _____ No <u>X</u>	Is the Sampled Area within a Wetland? Yes _____ No <u>X</u>
Hydric Soil Present?	Yes _____ No <u>X</u>	
Wetland Hydrology Present?	Yes _____ No <u>X</u>	
Remarks: <u>Native vegetation in drainage cleared for agricultural purposes. Drainage used for green waste dumping.</u>		

VEGETATION – Use scientific names of plants.

Tree Stratum (Plot size: _____)	Absolute % Cover	Dominant Species?	Indicator Status	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>3</u> (B) Percent of Dominant Species That Are OBL, FACW, or FAC: <u>0</u> (A/B)
1. <u>None</u>				
2. _____				
3. _____				
4. _____				
= Total Cover				Prevalence Index worksheet: Total % Cover of: _____ Multiply by: _____ OBL species _____ x 1 = _____ FACW species _____ x 2 = _____ FAC species _____ x 3 = _____ FACU species _____ x 4 = _____ UPL species <u>99</u> x 5 = <u>495</u> Column Totals: <u>99</u> (A) <u>495</u> (B) Prevalence Index = B/A = <u>5</u>
Sapling/Shrub Stratum (Plot size: <u>30m²</u>)				
1. <u>Malesma laurina</u>	<u>5</u>	<u>Y</u>	<u>UPL</u>	
2. <u>Nicotiana glauca</u>	<u>2</u>	<u>Y</u>	<u>UPL</u>	
3. _____				
4. _____				
5. _____				
= Total Cover				Hydrophytic Vegetation Indicators: _____ Dominance Test is >50% _____ Prevalence Index is ≤3.0 ¹ _____ Morphological Adaptations ¹ (Provide supporting data in Remarks or on a separate sheet) _____ Problematic Hydrophytic Vegetation ¹ (Explain)
Herb Stratum (Plot size: <u>30m²</u>)				
1. <u>Rhaphanus sativus</u>	<u>40</u>	<u>Y</u>	<u>UPL</u>	
2. <u>Bromus diandrus</u>	<u>25</u>	<u>N</u>	<u>UPL</u>	
3. <u>Vulpia myosu</u>	<u>25</u>	<u>N</u>	<u>UPL</u>	
4. <u>Resembryanthemum sp.</u>	<u>5</u>	<u>N</u>	<u>UPL</u>	
5. <u>95</u>				
6. _____				
7. _____				
8. _____				
= Total Cover				Hydrophytic Vegetation Present? Yes _____ No <u>X</u>
Woody Vine Stratum (Plot size: _____)				
1. _____				
2. _____				
= Total Cover				
% Bare Ground in Herb Stratum <u>0</u> % Cover of Biotic Crust _____				

Remarks:

WETLAND DETERMINATION DATA FORM – Arid West Region

Project/Site: Lilac Hills Ranch City/County: San Diego / SD Sampling Date: 3/21/12
 Applicant/Owner: Accretive Group State: _____ Sampling Point: 4B (2)
 Investigator(s): G. Scheid Section, Township, Range: _____
 Landform (hillslope, terrace, etc.): Valley bottom - gully Local relief (concave, convex, none): concave Slope (%): 2-5%
 Subregion (LRR): LRR-C Lat: _____ Long: _____ Datum: _____
 Soil Map Unit Name: Steep Gullied Land NWI classification: _____
 Are climatic / hydrologic conditions on the site typical for this time of year? Yes X No _____ (If no, explain in Remarks.)
 Are Vegetation X, Soil _____, or Hydrology _____ significantly disturbed? yes Are "Normal Circumstances" present? Yes X No _____
 Are Vegetation _____, Soil _____, or Hydrology _____ naturally problematic? no (If needed, explain any answers in Remarks.)

SUMMARY OF FINDINGS – Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present?	Yes _____ No <u>X</u>	Is the Sampled Area within a Wetland? Yes _____ No <u>X</u>
Hydric Soil Present?	Yes _____ No <u>X</u>	
Wetland Hydrology Present?	Yes _____ No <u>X</u>	
Remarks: <u>Vegetation cleared for agricultural purposes; green waste dumping present.</u>		

VEGETATION – Use scientific names of plants.

Tree Stratum (Plot size: <u>20m²</u>)	Absolute % Cover	Dominant Species?	Indicator Status	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>5</u> (B) Percent of Dominant Species That Are OBL, FACW, or FAC: <u>0</u> (A/B)
1. <u>Quercus agrifolia</u>	<u>2</u>	<u>X</u>	<u>UPL</u>	
2. _____	_____	_____	_____	
3. _____	_____	_____	_____	
4. _____	<u>2</u>			
<u>2</u> = Total Cover				
Sapling/Shrub Stratum (Plot size: <u>20m²</u>)	Absolute % Cover	Dominant Species?	Indicator Status	Prevalence Index worksheet: Total % Cover of: _____ Multiply by: _____ OBL species _____ x 1 = _____ FACW species _____ x 2 = _____ FAC species _____ x 3 = _____ FACU species _____ x 4 = _____ UPL species <u>100</u> x 5 = <u>500</u> Column Totals: <u>100</u> (A) <u>500</u> (B) Prevalence Index = B/A = <u>5</u>
1. <u>Malosma laurina</u>	<u>40</u>	<u>X</u>	<u>UPL</u>	
2. <u>Licium glauca</u>	<u>2</u>	<u>N</u>	<u>UPL</u>	
3. <u>Solanum madritensis</u>	<u>25</u>	<u>X</u>	<u>UPL</u>	
4. <u>Brassica sp.</u>	<u>10</u>	<u>X</u>	<u>UPL</u>	
5. _____	_____	_____	_____	
<u>87</u> = Total Cover				
Herb Stratum (Plot size: _____)	Absolute % Cover	Dominant Species?	Indicator Status	Hydrophytic Vegetation Indicators: _____ Dominance Test is >50% _____ Prevalence Index is ≤3.0 ¹ _____ Morphological Adaptations ¹ (Provide supporting data in Remarks or on a separate sheet) _____ Problematic Hydrophytic Vegetation ¹ (Explain) ¹ Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.
1. <u>none</u>	_____	_____	_____	
2. _____	_____	_____	_____	
3. _____	_____	_____	_____	
4. _____	_____	_____	_____	
5. _____	_____	_____	_____	
6. _____	_____	_____	_____	
7. _____	_____	_____	_____	
8. _____	_____	_____	_____	
_____ = Total Cover				
Woody Vine Stratum (Plot size: _____)	Absolute % Cover	Dominant Species?	Indicator Status	Hydrophytic Vegetation Present? Yes _____ No <u>X</u>
1. <u>Marah macrocarpa</u>	<u>Y</u>	<u>20</u>	<u>UPL</u>	
2. _____	_____	_____	_____	
<u>20</u> = Total Cover				
% Bare Ground in Herb Stratum <u>0</u>	% Cover of Biotic Crust _____			

Remarks:

Sampling Point:

40

[illegible]

¹Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains.

²Location: PL=Pore Lining, RC=Root Channel, M=Matrix.

Indicators for Problematic Hydric Soils³:

- | | |
|--|---|
| ☐ Histosol (A1) | ☐ Sandy Redox (S5) |
| ☐ Histic Epipedon (A2) | ☐ Stripped Matrix (S6) |
| ☐ Black Histic (A3) | ☐ Loamy Mucky Mineral (F1) |
| ☐ Hydrogen Sulfide (A4) | ☐ Loamy Gleyed Matrix (F2) |
| ☐ Stratified Layers (A5) (LRR C) | ☐ Depleted Matrix (F3) |
| ☐ 1 cm Muck (A9) (LRR D) | ☐ Redox Dark Surface (F6) |
| ☐ Depleted Below Dark Surface (A11) | ☐ Depleted Dark Surface (F7) |
| ☐ Thick Dark Surface (A12) | ☐ Redox Depressions (F8) |
| ☐ Sandy Mucky Mineral (S1) | ☐ Vernal Pools (F9) |
| ☐ Sandy Gleyed Matrix (S4) | |

- _____ 1 cm Muck (A9) (LRR C)
 _____ 2 cm Muck (A10) (LRR B)
 _____ Reduced Vertic (F18)
 _____ Red Parent Material (TF2)
 _____ Other (Explain in Remarks)

³Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.

Type: _____
Depth (inches): _____

Hydric Soil Present? Yes No ☒

Remarks: No hydric soil indicators observed.

Wetland Hydrology Indicators:

Secondary Indicators (2 or more required)

Primary Indicators (minimum of one required; check all that apply)

- | | |
|--|--|
| ☐ Surface Water (A1) | ☐ Salt Crust (B11) |
| ☐ High Water Table (A2) | ☐ Biotic Crust (B12) |
| ☐ Saturation (A3) | ☐ Aquatic Invertebrates (B13) |
| ☐ Water Marks (B1) (Nonriverine) | ☐ Hydrogen Sulfide Odor (C1) |
| ☐ Sediment Deposits (B2) (Nonriverine) | ☐ Oxidized Rhizospheres along Living Roots (C3) |
| ☐ Drift Deposits (B3) (Nonriverine) | ☐ Presence of Reduced Iron (C4) |
| ☐ Surface Soil Cracks (B6) | ☐ Recent Iron Reduction in Tilled Soils (C6) |
| ☐ Inundation Visible on Aerial Imagery (B7) | ☐ Thin Muck Surface (C7) |
| ☐ Water-Stained Leaves (B9) | ☐ Other (Explain in Remarks) |

- ☐ Water Marks (B1) (Riverine)
- ☐ Sediment Deposits (B2) (Riverine)
- ☐ Drift Deposits (B3) (Riverine)
- ☒ Drainage Patterns (B10)
- ☐ Dry-Season Water Table (C2)
- ☐ Thin Muck Surface (C7)
- ☐ Crayfish Burrows (C8)
- ☐ Saturation Visible on Aerial Imagery (C9)
- ☐ Shallow Aquitard (D3)
- ☐ FAC-Neutral Test (D5)

Field Observations:

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

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

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

Wetland Hydrology Present? Yes No ☒

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

Remarks: Ephemeral drainage near orchard.
Non-wetland water w/ bottom ≈ 10 ft.
CDFG streambed.

ATTACHMENT 13

Addendum Letter (Sight Distance Biology Survey for covey Lane and West Lilac Road)

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1927 Fifth Avenue
San Diego, CA 92101
P 619.308.9333
F 619.308.9334
www.reconenvironmental.com

2033 East Grant Road
Tucson, AZ 85719
P 520.325.9977
F 520.293.3051

2027 Preisker Lane, Ste. G
Santa Maria, CA 93454
P 619.308.9333
F 619.308.9334



An Employee-Owned Company

June 5, 2013

Mr. Mark Slovick
County of San Diego
Planning and Development Services
5510 Overland Avenue, 3rd Floor
San Diego, CA 92123-1666

Reference: Sight Distance Biology Survey for Covey Lane and West Lilac Road
(RECON Number 6153)

Dear Mr. Slovick:

A site visit was made to assess that biological resources present in the proposed area of clearing to improve and meet the sight distance requirements to the south of the intersection of Covey Lane and West Lilac Road. The proposed area to be cleared is located on the east side of West Lilac Road just south of its intersection with Covey Lane (see enclosure). The approximately 480 feet of clearing would occur on a slope that is vegetated with predominantly non-native ornamental trees (e.g., pine, pepper, eucalyptus, olive) with non-native fountain grass on the road cut slope. Two native coast live oak trees occur at the south end of the clearing zone, but if impacts to these trees can be restricted to removal of the lower limbs and not complete tree removal then no significant impacts to biological resources would occur.

Sincerely,

A handwritten signature in black ink, appearing to read 'Gerry Scheid'.

Gerry Scheid
Senior Biologist

GAS:sh

Enclosure

cc/enc: Jon Rilling, Accretive Investments, Inc.

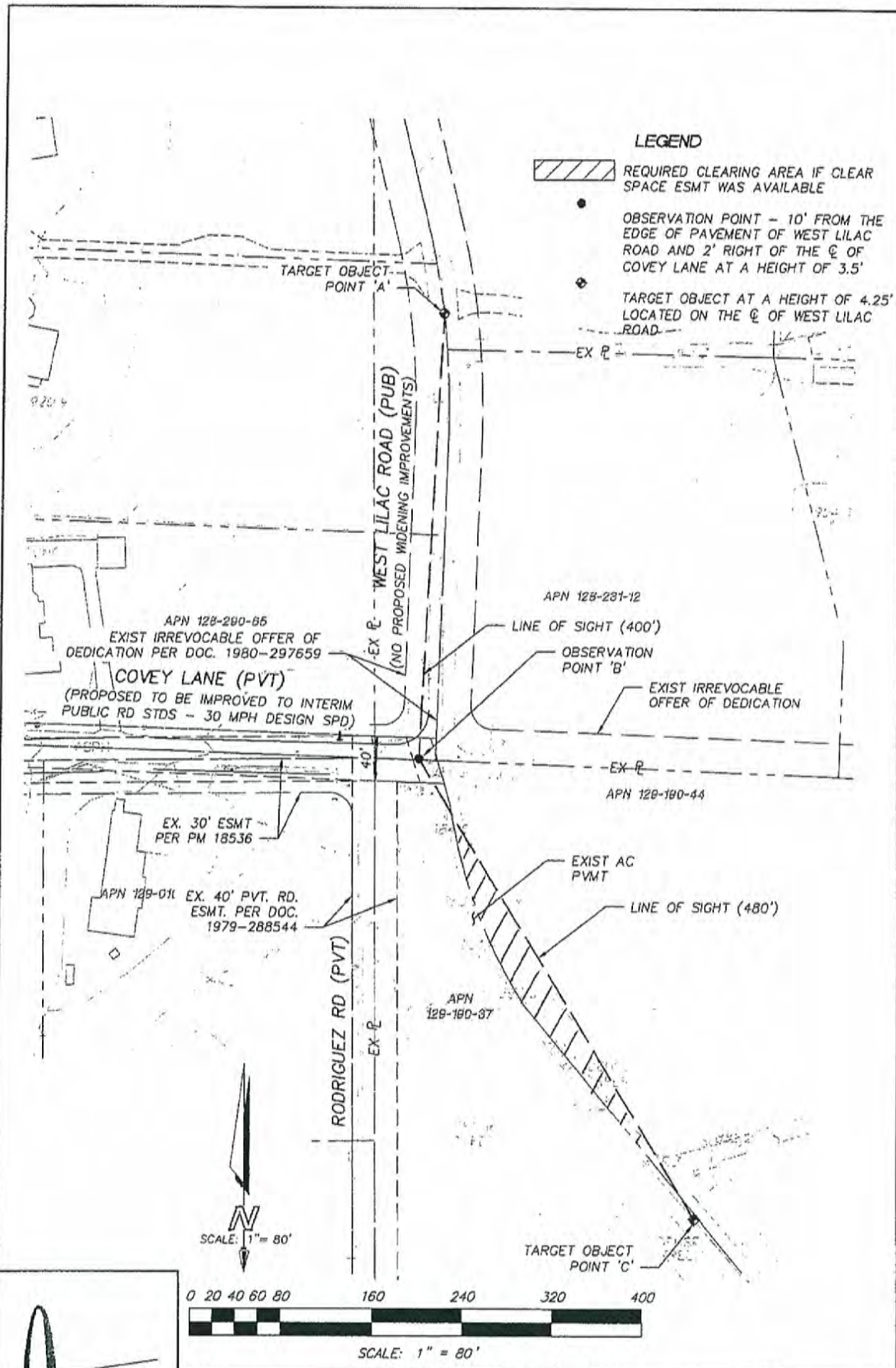


FIGURE 2
SIGHT DISTANCE ANALYSIS
WEST LILAC ROAD AND COVEY LANE



ATTACHMENT 14

Biological Open Space Signage and Trails

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ATTACHMENT 14

RPO Wetland Crossing Findings Analysis

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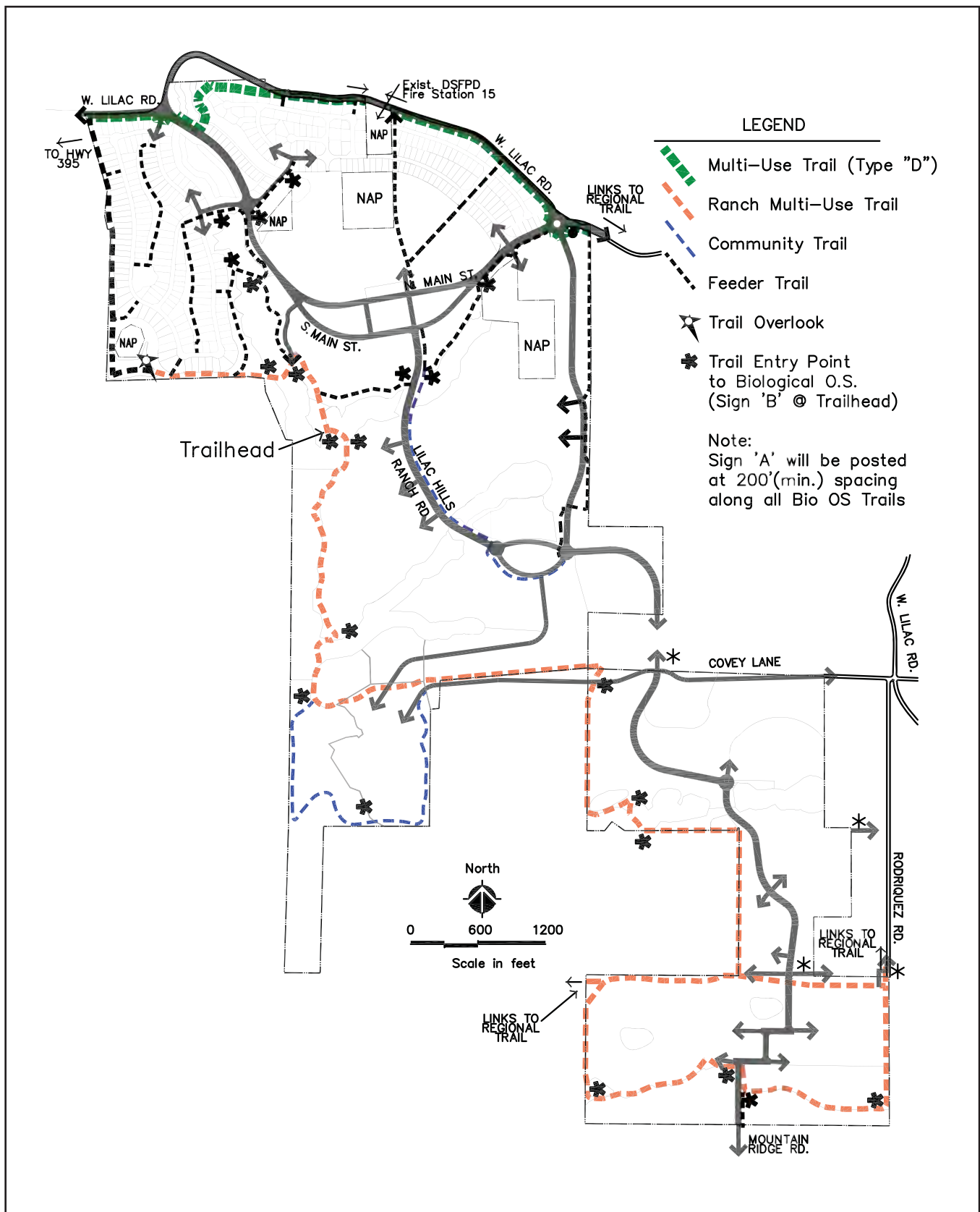


FIGURE 1a

Biological Open Space Trail and Signage Map: Alternative 'A'

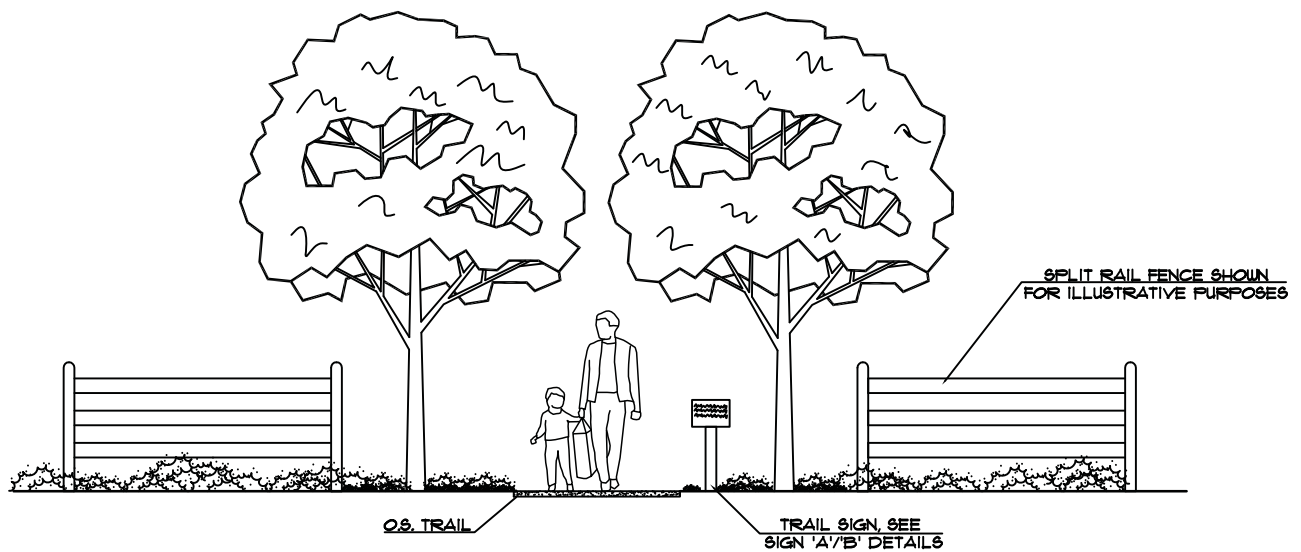


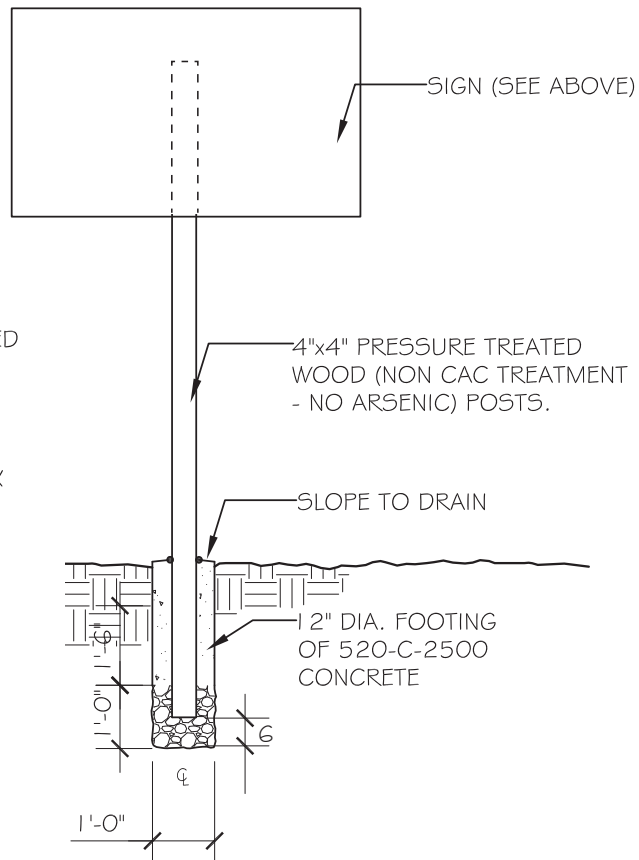
FIGURE 1b

Biological Open Space Trail and Signage Map: Alternative 'A'



NOTES:

1. SIGNS SHALL BE MANUFACTURED OF ALUMINUM SHEET, THICKNESS 0.08" MIN.
2. SIGNS WILL INCORPORATE BACKGROUND TO MATCH FRAZEE 8200W BLEACHED SAND. GRAPHIC AND LETTERING COLOR TO BE VERIFIED WITH OWNER.
3. SIGNS SHALL BE MOUNTED ON 4"x4" POSTS WITH BOTTOM EDGE 36" ABOVE GRADE.
4. ATTACHMENT TO POSTS USING 1/4" X 2-1/2" ANODIZED LAG SCREWS AND WASHERS (2 EA.)
5. SIGNAGE WILL BE SPACED @ 200' O.C. (MAX.) ALONG TRAIL

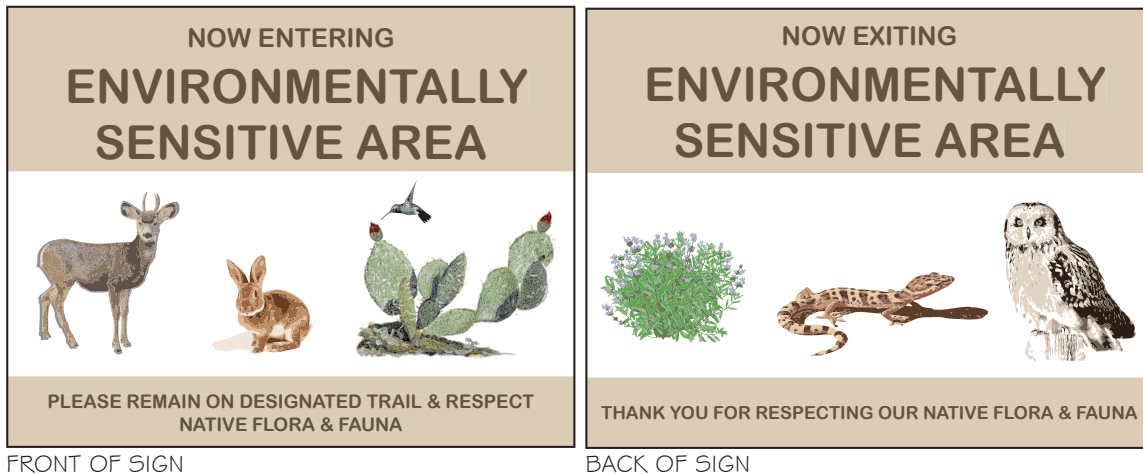


SIGN 'A'

N.T.S.

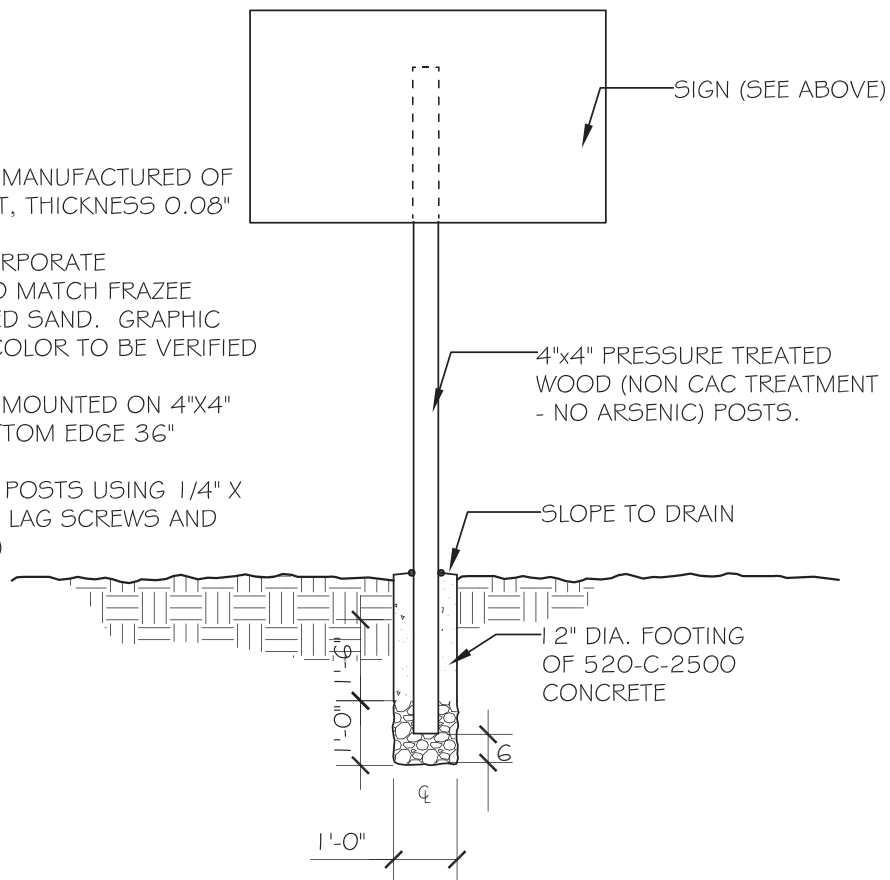
FIGURE 1c

Biological Open Space Trail and Signage Map: Alternative 'A'



NOTES:

1. SIGNS SHALL BE MANUFACTURED OF ALUMINUM SHEET, THICKNESS 0.08" MIN.
2. SIGNS WILL INCORPORATE BACKGROUND TO MATCH FRAZEE 8200W BLEACHED SAND. GRAPHIC AND LETTERING COLOR TO BE VERIFIED WITH OWNER.
3. SIGNS SHALL BE MOUNTED ON 4"x4" POSTS WITH BOTTOM EDGE 36" ABOVE GRADE.
4. ATTACHMENT TO POSTS USING 1/4" X 2-1/2" ANODIZED LAG SCREWS AND WASHERS (2 EA.)



SIGN 'B'

N.T.S.

FIGURE 1d

Biological Open Space Trail and Signage Map: Alternative 'A'

ATTACHMENT 15

RPO Wetland Crossing Findings Analysis

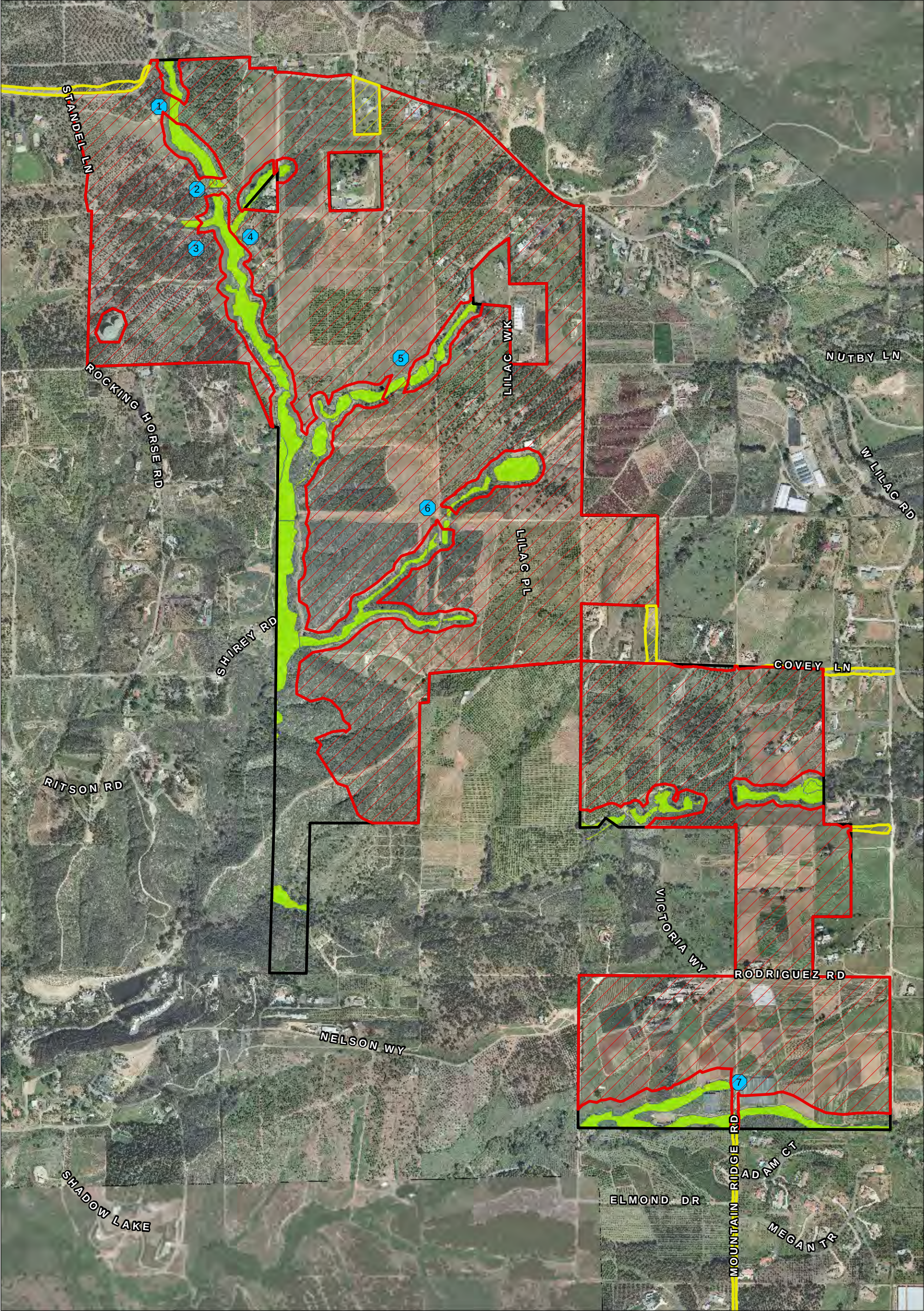
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ATTACHMENT 15
RPO WETLAND CROSSING FINDINGS ANALYSIS
(See Attached Figure A for Locations of RPO Wetland Crossings)

RPO Finding	Crossing 1	Crossing 2	Crossing 3	Crossing 4	Crossing 5	Crossing 6	Crossing 7
There is no feasible alternative that avoids the wetland	West Lilac Road must cross at this location to meet engineering road standards and minimize additional crossing of RPO wetlands.	This crossing is required to provide secondary access to the development area to meet safety standards.	This crossing is required to provide access within the development and to eliminate the need for additional crossings of RPO wetlands.	West Lilac Road must cross at this location to meet engineering road standards and minimize additional crossing of RPO wetlands.	This crossing is required to provide secondary access to the development area to meet safety standards.	This crossing is required to provide secondary access to the development area to meet safety standards.	This crossing is required to provide secondary access to the development area to meet safety standards.
The crossing(s) are located and designed in such a way as to cause the least impact to environmental resources, minimize impacts to sensitive species, and prevent barriers to wildlife movement (e.g., crossing widths shall be the minimum feasible and wetlands shall be bridged where feasible.)	Impacts for this proposed crossing are through willow riparian woodland habitat; the proposed crossing is designed to the narrowest feasible width for the type of road; a 30-inch culvert is proposed at this crossing.	Impacts at this proposed crossing are through freshwater marsh and willow riparian woodland habitat; the proposed crossing is designed to the narrowest feasible width for the type of road; the crossing is located at an existing road crossing which helps to minimize impacts to RPO wetlands; a 20-inch culvert is proposed at this crossing.	Impacts at this proposed crossing are through oak riparian woodland habitat; the proposed crossing is designed to the narrowest feasible width for the type of road; a 20-inch culvert is proposed at this crossing.	Impacts at this proposed crossing are through coast live oak riparian woodland habitat; the proposed crossing is designed to the narrowest feasible width for the type of road; the proposed crossing is located at an existing road crossing which helps to minimize impacts to RPO wetlands; a 18-inch culvert is proposed at this crossing.	Impacts at this proposed crossing are through coast live oak riparian woodland habitat; the proposed crossing is designed to the narrowest feasible width for the type of road; the proposed crossing is located at an existing road crossing which helps to minimize impacts to RPO wetlands; a 30-inch culvert is proposed at this crossing.	Impacts at this proposed crossing are through a narrow band of coast live oak riparian woodland habitat; the proposed crossing is designed to the narrowest feasible width for the type of road; the proposed crossing is located at an existing road crossing where the existing habitat is narrow which helps to minimize impacts to RPO wetlands; a 30-inch culvert is proposed at this crossing.	Impacts at this proposed crossing are through a narrow band of disturbed southern willow scrub habitat; the proposed crossing is designed to the narrowest feasible width for the type of road; the proposed crossing is located at an existing road crossing where the existing wetland habitat is narrow and disturbed from the adjacent agricultural operation, which helps to minimize impacts to RPO wetlands; a 54-inch culvert is proposed at this crossing.
The least-damaging construction methods are utilized (e.g., staging areas shall be located outside of sensitive areas, work shall not be performed during the sensitive avian breeding season, noise attenuation measures shall be included and hours of operation shall be limited so as to comply with all applicable ordinances and to avoid impacts to sensitive resources.	All construction staging areas will be located outside of any sensitive biological resource areas. To the extent feasible work will be conducted outside of the sensitive avian breeding season. If work must be conducted during the sensitive avian breeding season then appropriate noise attenuation measures shall be used to avoid and minimize indirect impacts, including potential restrictions on the hours of operation of construction activities.	All construction staging areas will be located outside of any sensitive biological resource areas. To the extent feasible work will be conducted outside of the sensitive avian breeding season. If work must be conducted during the sensitive avian breeding season then appropriate noise attenuation measures shall be used to avoid and minimize indirect impacts, including potential restrictions on the hours of operation of construction activities.	All construction staging areas will be located outside of any sensitive biological resource areas. To the extent, feasible work will be conducted outside of the sensitive avian breeding season. If work must be conducted during the sensitive avian breeding season then appropriate noise attenuation measures shall be used to avoid and minimize indirect impacts, including potential restrictions on the hours of operation of construction activities.	All construction staging areas will be located outside of any sensitive biological resource areas. To the extent feasible work will be conducted outside of the sensitive avian breeding season. If work must be conducted during the sensitive avian breeding season then appropriate noise attenuation measures shall be used to avoid and minimize indirect impacts, including potential restrictions on the hours of operation of construction activities.	All construction staging areas will be located outside of any sensitive biological resource areas. To the extent feasible work will be conducted outside of the sensitive avian breeding season. If work must be conducted during the sensitive avian breeding season then appropriate noise attenuation measures shall be used to avoid and minimize indirect impacts, including potential restrictions on the hours of operation of construction activities.	All construction staging areas will be located outside of any sensitive biological resource areas. To the extent feasible work will be conducted outside of the sensitive avian breeding season. If work must be conducted during the sensitive avian breeding season then appropriate noise attenuation measures shall be used to avoid and minimize indirect impacts, including potential restrictions on the hours of operation of construction activities.	All construction staging areas will be located outside of any sensitive biological resource areas. To the extent feasible work will be conducted outside of the sensitive avian breeding season. If work must be conducted during the sensitive avian breeding season then appropriate noise attenuation measures shall be used to avoid and minimize indirect impacts, including potential restrictions on the hours of operation of construction activities.
The applicant shall prepare an analysis of whether the crossing could feasibly serve adjoining properties and thereby result in minimizing the number of additional crossing required by adjacent development.	The proposed crossing could eliminate or minimize the number of additional crossings required by adjacent development.	The proposed crossing could eliminate or minimize the number of additional crossings required by adjacent development.	The proposed crossing could eliminate or minimize the number of additional crossings required by adjacent development.	The proposed crossing could eliminate or minimize the number of additional crossings required by adjacent development.	The proposed crossing could eliminate or minimize the number of additional crossings required by adjacent development.	The proposed crossing could eliminate or minimize the number of additional crossings required by adjacent development.	The proposed crossing could eliminate or minimize the number of additional crossings required by adjacent development.
There must be no net loss of wetlands and any impacts to wetlands shall be mitigated at a minimum ratio of 3:1 (this shall include 1:1 creation component, while the restoration/enhancement of existing wetlands may be used to make up the remaining requirements for a total of 3:1 ratio).	The project will provide mitigation for impacts to RPO wetlands at a 3:1 ratio such that there would be a no net loss of wetlands. A minimum 1:1 ratio of the mitigation will be the creation of wetland habitat, while the remaining 2:1 ratio of the mitigation will be achieved through the enhancement of disturbed wetlands that will remain in on-site biological open space.	The project will provide mitigation for impacts to RPO wetlands at a 3:1 ratio such that there would be a no net loss of wetlands. A minimum 1:1 ratio of the mitigation will be the creation of wetland habitat, while the remaining 2:1 ratio of the mitigation will be achieved through the enhancement of disturbed wetlands that will remain in on-site biological open space.	The project will provide mitigation for impacts to RPO wetlands at a 3:1 ratio such that there would be a no net loss of wetlands. A minimum 1:1 ratio of the mitigation will be the creation of wetland habitat, while the remaining 2:1 ratio of the mitigation will be achieved through the enhancement of disturbed wetlands that will remain in on-site biological open space.	The project will provide mitigation for impacts to RPO wetlands at a 3:1 ratio such that there would be a no net loss of wetlands. A minimum 1:1 ratio of the mitigation will be the creation of wetland habitat, while the remaining 2:1 ratio of the mitigation will be achieved through the enhancement of disturbed wetlands that will remain in on-site biological open space.	The project will provide mitigation for impacts to RPO wetlands at a 3:1 ratio such that there would be a no net loss of wetlands. A minimum 1:1 ratio of the mitigation will be the creation of wetland habitat, while the remaining 2:1 ratio of the mitigation will be achieved through the enhancement of disturbed wetlands that will remain in on-site biological open space.	The project will provide mitigation for impacts to RPO wetlands at a 3:1 ratio such that there would be a no net loss of wetlands. A minimum 1:1 ratio of the mitigation will be the creation of wetland habitat, while the remaining 2:1 ratio of the mitigation will be achieved through the enhancement of disturbed wetlands that will remain in on-site biological open space.	The project will provide mitigation for impacts to RPO wetlands at a 3:1 ratio such that there would be a no net loss of wetlands. A minimum 1:1 ratio of the mitigation will be the creation of wetland habitat, while the remaining 2:1 ratio of the mitigation will be achieved through the enhancement of disturbed wetlands that will remain in on-site biological open space.

ATTACHMENT 15
RPO WETLAND CROSSING FINDINGS EXEMPTION ANALYSIS FOR WEST LILAC ROAD (Crossings 1 and 3)
ESSENTIAL PUBLIC FACILITY
(See Attached Figure A for Locations of RPO Wetland Crossings)

RPO Finding	Crossing 1	Crossing 3
The facility or project is consistent with adopted community or subregional plan	West Lilac Road is classified as a “Mobility Element” road by the County of San Diego’s General Plan Circulation Element. The proposed alignment is consistent with what is depicted in the County’s General Plan and the Valley Center Community Plan.	West Lilac Road is classified as a “Mobility Element” road by the County of San Diego’s General Plan Circulation Element. The proposed alignment is consistent with what is depicted in the County’s General Plan and the Valley Center Community Plan.
All possible mitigation measures have been incorporated into the facility or project and there are no feasible less environmentally damaging location, alignment, or non-structural alternatives that would meet project objectives	Impacts for this proposed crossing are designed to the narrowest feasible width for the type of road. The RPO wetland buffers along this segment of the road are reduced, in order to meet the County’s Public Road Standards. There are no feasible less environmentally damaging locations of alignments that would meet the objectives of constructing a Mobility Element road as any of these alternatives would have to cross the same RPO wetland. State law requires the development of the County’s Mobility Element Network, in order to accommodate the land uses proposed in the General Plan. The General Plan anticipated that even though only a portion of the Mobility Network was currently in place, the remainder would be constructed as development proceeded. Therefore, the construction of West Lilac Road in connection with this project is important in ensuring that the Network is developed in order to adequately support the uses designed in the Land Use Map at build-out.	Impacts at this proposed crossing are designed to the narrowest feasible width for the type of road; the crossing is located at an existing road crossing which helps to minimize impacts to RPO wetlands. The RPO wetland buffers along this segment of the road are reduced, in order to meet the County’s Public Road Standards. There are no feasible less environmentally damaging locations of alignments that would meet the objectives of constructing a Mobility Element road as any of these alternatives would have to cross the same RPO wetland. State law requires the development of the County’s Mobility Element Network, in order to accommodate the land uses proposed in the General Plan. The General Plan anticipated that even though only a portion of the Mobility Network was currently in place, the remainder would be constructed as development proceeded. Therefore, the construction of West Lilac Road in connection with this project is important in ensuring that the Network is developed in order to adequately support the uses designed in the Land Use Map at build-out.
Where the facility or project encroaches into wetland or floodplain, mitigation measures are required that result in any net gain in the wetland and/or riparian habitat.	Mitigation is proposed for the impacts to RPO wetlands from this crossing at a 3:1 ratio. This mitigation ratio will ensure that there is a net gain in wetland habitat. The wetland mitigation is proposed to be achieved on-site through the establishment new wetland habitat in the southern portion of the project near existing wetlands, and through the enhancement of disturbed wetland areas within the project’s Biological Open Space.	Mitigation is proposed for the impacts to RPO wetlands from this crossing at a 3:1 ratio. This mitigation ratio will ensure that there is a net gain in wetland habitat. The wetland mitigation is proposed to be achieved on-site through the establishment of new wetland habitat in the southern portion of the project near existing wetlands, and through the enhancement of disturbed wetland areas within the project’s Biological Open Space.
Where the facility or project encroaches into steep slopes, native vegetation will be used to re-vegetate and landscape cut and fill areas	The proposed crossing would not encroach into steep slopes.	The proposed crossing would not encroach into steep slopes.
No mature riparian woodland is destroyed or reduced in size due to otherwise allowed encroachments	The riparian woodland at the proposed crossing is not considered “mature” woodland. The willow habitat at this location has been affected by the adjacent ongoing agricultural activities which has prevented the habitat from forming a mature riparian community.	The riparian woodland at the proposed crossing is not considered “mature” woodland. The willow habitat at this location has been affected by the adjacent ongoing agricultural activities which has prevented the habitat from forming a mature riparian community.



- Project Boundary
- Project Impacts
- Off-site Improvement Areas
- RPO Wetland Crossing
- RPO Wetland

0 800 Feet

ATTACHMENT 15
FIGURE A

Locations of RPO Wetland Crossings

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ATTACHMENT 16

Conceptual Wetland Revegetation Plan

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CONCEPTUAL WETLAND REVEGETATION PLAN LILAC HILLS RANCH SAN DIEGO COUNTY, CALIFORNIA

SPECIFIC PLAN
GENERAL PLAN AMENDMENT
REZONE
EIR
TENTATIVE MAP (MASTER)
TENTATIVE MAP (PHASE 1 IMPLEMENTING TM)
MAJOR USE PERMIT

PROJECT APPLICANT:
ACCRETIVE INVESTMENTS, INC.
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SAN DIEGO, CA 92130
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PREPARED FOR:
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KIVA PROJECT: 09-0112513
SP 3810-12-001
GPA 3800-12-001
REZ 3600-12-003
TM 5571 RPL3 and 5572 RPL3
MUP 3300-12-005

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CHAPTER 1.0 DESCRIPTION OF THE DEVELOPMENT PROJECT/IMPACT SITE FOR WHICH COMPENSATORY MITIGATION IS REQUIRED

The Lilac Hills Ranch project proposes the development of a new mixed-use master planned community. The proposed Specific Plan includes a maximum of 1,746 dwelling units with varying lot sizes, a neighborhood-serving commercial village center, public parks, retail uses, and a school site. Also, proposed on-site are a recycling collection facility, a wastewater reclamation facility, active orchards, and other supporting infrastructure. A Rezone is proposed to implement the Specific Plan by changing the existing Use and Development Regulations from A70 (Limited Agricultural) Zoning and RR (Rural Residential) to commercial and residential zones. The project would also include the submittal of a Master Tentative Map, Implementing Tentative Map, and a Major Use Permit.

The proposed project will permanently impact a total of 2.2 acres of Resource Protection Ordinance (RPO) wetland on-site. A 3:1 mitigation ratio is required for impacts to County RPO wetlands. Of this mitigation ratio, a minimum of 1:1 creation must be achieved while the remaining 2:1 of the ratio may be satisfied through restoration/enhancement of existing disturbed wetlands. The proposed on-site mitigation will involve the creation of a minimum of 6.0 acres of wetland and the restoration/enhancement of approximately 12 acres of disturbed wetland habitat. Southern willow riparian habitat is the target vegetation for the wetland creation and the restoration/enhancement of existing disturbed wetlands will involve the removal and control of non-native plant species and the reintroduction of native wetland plant species.

1.1 Responsible Parties

The owner/project proponent will be responsible for the development of the Lilac Hills Ranch project and the funding of the long-term maintenance, monitoring, and remedial actions in relation to the implementation of this revegetation plan. The owner/project proponent shall provide detailed construction drawings, accurate timelines, and written project specifications in conformance with the approved final revegetation plan. The owner/project proponent shall be responsible for coordination between the grading contractor and project biologist to ensure the implementation of the final revegetation plan will occur on the proper schedule.

The owner/project proponent shall manage project activities in the best interest of the project goals. The owner/project proponent will be solely responsible for administration of project contracts. Decisions to stop work are the responsibility of the owner/project proponent and the designated project manager. The owner/project proponent shall have sole authority in decisions to suspend payment or terminate such contracts. This includes all phases of project installation, long-term maintenance, and biological monitoring. The owner/project proponent may, with sole discretion at any time, replace any of these parties if necessary.

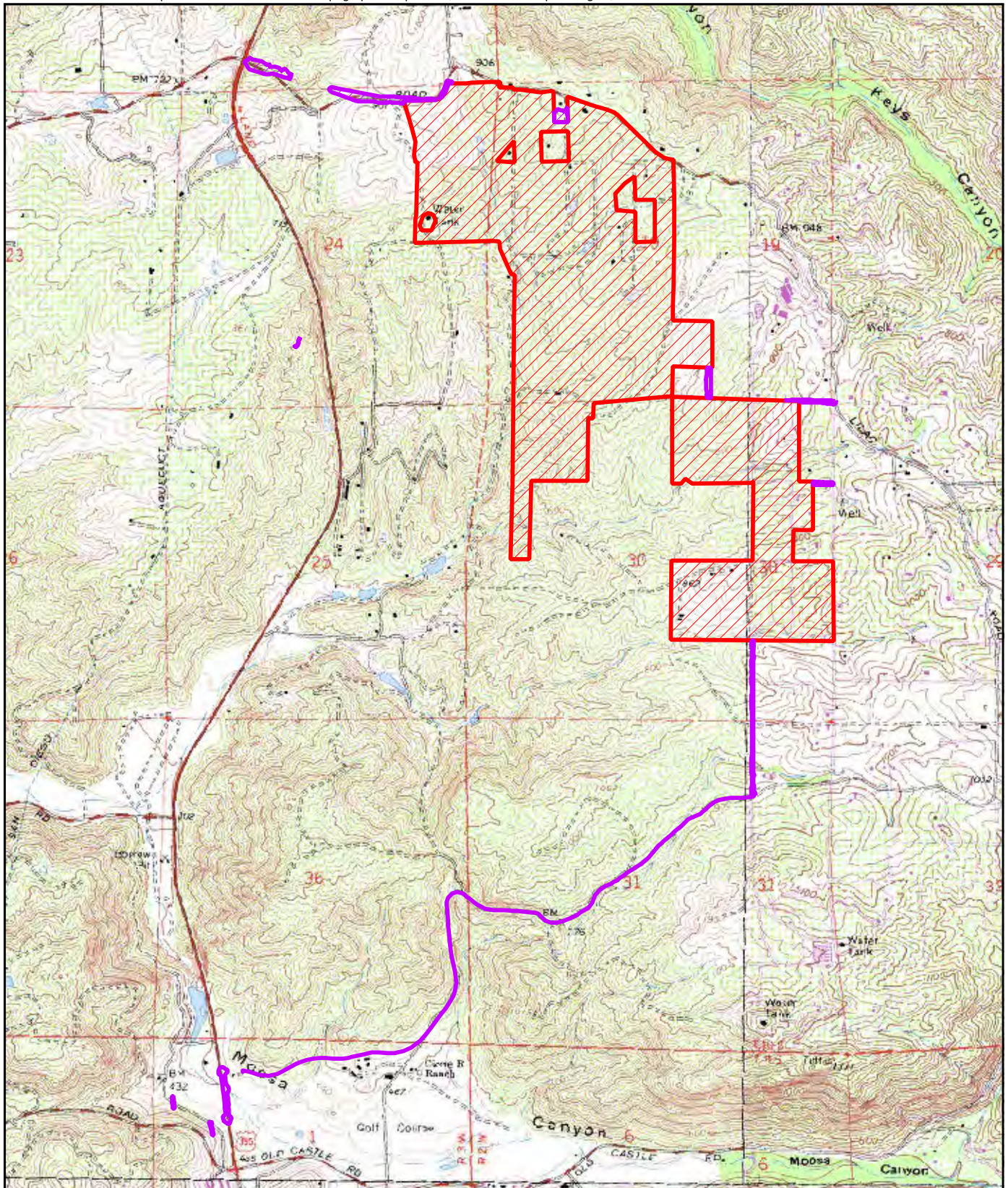
1.2 Location of the Development Project

The proposed Lilac Hills Ranch project area is approximately 608 acres composed of 59 contiguous properties and is located in northern unincorporated San Diego County (Location: Thomas Guide 1049 A7, B7; 1069 B1, B2, C1, C2; Figures 1 and 2). The



✱ Project Location

FIGURE 1
Regional Location



-  Project Boundary
-  Off-site Improvement Areas

FIGURE 2

Project Location on USGS Map

project occurs within the Bonsall and Valley Center community planning areas. West Lilac Road serves as the northern and eastern boundary of the project site (Figure 3). The western boundary of the project runs along Standel Lane, and Circle R Drive is less than a half-mile south of the project boundary.

The locations of the proposed on-site revegetation work occur along and adjacent to the drainage courses being preserved within biological open space (Figure 4a and 4b). Wetland habitat creation is proposed at a location in the southern portion of the project. Wetland habitat restoration and enhancement areas occur along portions of drainage courses throughout the site.

1.3 Summary of Overall Development Project with Proposed Mitigation

1.3.1 Environmental Setting and Site Conditions

The Lilac Hills Ranch project site consists of approximately 608 acres of inland foothills and valleys. The project site includes topography consisting of a series of rolling hills dissected by drainage courses and a valley bottom that drain primarily to the south and southwest. Two agricultural ponds occur in the project area that store water for irrigation purposes.

A total of 17 primary habitat types and vegetation communities were identified in the project survey area and 100-foot buffer survey area (Table 1). Some areas of these habitat types have portions that were characterized as disturbed.

**TABLE 1
EXISTING ON-SITE HABITAT/VEGETATION COMMUNITIES**

Habitat/Vegetation Communities	Acres
Coast live oak woodland (71160)	3.6
Coastal sage scrub (32520)	19.6
Disturbed coastal sage scrub (32520)	2.9
Disturbed coastal/Valley freshwater marsh (52410)	0.6
Eucalyptus woodland (79100)	1.7
Southern coast live oak riparian woodland (61310)	22.5
Disturbed southern coast live oak riparian woodland (61310)	1.9
Southern mixed chaparral (37120)	75.4
Disturbed southern mixed chaparral (37120)	6.0
Southern willow riparian woodland (62500)	4.7
Southern willow scrub (63320)	6.1
Disturbed southern willow scrub (63320)	0.3
Mule fat scrub (63310)	0.1
Open water – fresh water (64140)	0.5
Disturbed wetland (11200)	0.4
Extensive agriculture – row crops (18320)	90.5
Intensive agriculture – nursery (18200)	9.2
Vineyard (18100)	0.7
Orchard (18100)	291.9
Disturbed habitat (11300)	44.0
Developed (12000)	25.7
TOTAL	608.3