

DATA FORM: ROUTINE WETLAND DETERMINATION (1987 COE Wetlands Delineation Manual)

Project/Site: Lagoon Valley Applicant: Triad Homes Investigator(s): S. Lohmann, C. Bouril LSA Associates, Inc., 157 Park Place, Point Richmond, CA 94801 Have vegetation, soils, or hydrology been disturbed? <input checked="" type="radio"/> Yes <input type="radio"/> No Is the area a potential Problem Area? <input checked="" type="radio"/> Yes <input type="radio"/> No	Sample Site No.: <u>4</u> Date: July 17, 2003 Location: Vacaville County: Solano State: CA
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VEGETATION (Note those species observed to have morphological adaptations to wetlands with an asterisk "**")

Dominant Plant Species	% Cover	Indicator	Associated Plant Species	% Cover	Indicator
1. <u>ARENIX SP.</u>	<u>10</u>	<u>UPL</u>	1. _____	_____	_____
2. <u>TRICHOTHYRUM CAPUT-MEDUSA</u>	<u>65</u>	<u>UPL</u>	2. _____	_____	_____
3. <u>VICIA SP.</u>	<u>5</u>	<u>?</u>	3. _____	_____	_____
4. <u>LOLIUM MOTTIFLORUM</u>	<u>10</u>	<u>FAC</u>	4. _____	_____	_____
5. <u>BRIZA MINOR</u>	<u>5</u>	_____	5. _____	_____	_____
6. <u>BROMUS HORDEACEUS</u>	<u>5</u>	<u>FACU</u>	6. _____	_____	_____
7. _____	_____	_____	7. _____	_____	_____

% dominant species that are OBL, FACW or FAC (except FAC-). 5 % bare ground

Remarks:

HYDROLOGY

Field observations: Depth of surface water: <u>—</u> (in.) Depth to free water in pit: <u>—</u> (in.) Depth to saturated soil: <u>—</u> (in.) Approximate slope: <u>70%</u> Within 100-year floodplain? Yes <input checked="" type="radio"/> No <input type="radio"/> Below OHWM or High Tide Line? Yes <input checked="" type="radio"/> No <input type="radio"/>	Wetland hydrology indicators: <u>NONE</u> <input type="checkbox"/> Inundated <input type="checkbox"/> Saturated in upper 12" <input type="checkbox"/> Water marks <input type="checkbox"/> Organic duff layer <input type="checkbox"/> Sediment deposits <input type="checkbox"/> Drainage patterns in wetlands <input type="checkbox"/> Suppressed vegetation <input type="checkbox"/> Oxidized root channels <input type="checkbox"/> Matting (algal or other) <input type="checkbox"/> Other (explain in remarks)
Physiographic position of site/Remarks: <u>10' west of #3</u> 	

SOILS

Map unit name: _____ Taxonomy (subgroup): _____	Soil series permeability (from NRCS survey): _____ Field observations confirm mapped soil series? Yes <input type="checkbox"/> No <input type="checkbox"/>				
Depth (inches)	Horizon	Matrix Color (moist)	Redoximorphic Colors (moist)	Abundance/Contrast	Additional observations (texture, concretions, porosity, etc.)
_____	_____	<u>10YR4/3</u>	_____	_____	<u>SIL</u>
_____	_____	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____
Hydric Soil Indicators: <u>NONE</u> <input type="checkbox"/> Abundant rhizospheres <input type="checkbox"/> Gleying <input type="checkbox"/> Probable aquic moisture regime <input type="checkbox"/> Reducing conditions <input type="checkbox"/> Non-mollic, low-chroma colors <input type="checkbox"/> Concretions <input type="checkbox"/> High organic content in surface layer <input type="checkbox"/> Iron or Mn mottles <input type="checkbox"/> Listed on county hydric soils list <input type="checkbox"/> Depleted mottles or matrix <input type="checkbox"/> Sulfidic odor <input type="checkbox"/> Other (explain in remarks)					
Remarks: <u>TOP 1/2" OF SOIL HAS FERRIC/OLD MOTTLES</u>					

WETLAND DETERMINATION

Hydrophytic vegetation present Yes <input checked="" type="radio"/> No <input type="radio"/> Hydric soils present Yes <input checked="" type="radio"/> No <input type="radio"/> Wetland hydrology present Yes <input checked="" type="radio"/> No <input type="radio"/>	Is this sampling point within a wetland? Yes <input type="radio"/> No <input checked="" type="radio"/>
Remarks:	

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Project/Site: Lagoon Valley Applicant: Triad Homes Investigator(s): S. Lohmann, C. Bouril LSA Associates, Inc., 157 Park Place, Point Richmond, CA 94801 Have vegetation, soils, or hydrology been disturbed? <input checked="" type="radio"/> Yes <input type="radio"/> No Is the area a potential Problem Area? <input checked="" type="radio"/> Yes <input type="radio"/> No	Sample Site No.: <u>5</u> Date: July 17, 2003 Location: Vacaville County: Solano State: CA
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VEGETATION (Note those species observed to have morphological adaptations to wetlands with an asterisk "**")

Dominant Plant Species	% Cover	Indicator	Associated Plant Species	% Cover	Indicator
1. <u>HORDEUM MPECINUM</u>	<u>43</u>	<u>FAC</u>	1. <u>RUMEX PULCHER</u>	<u>5</u>	<u>FAC+</u>
2. <u>LOLIVM MULTIFLORUM</u>	<u>50</u>	<u>FAC</u>	2. <u>POLYPOGON MONSPELIENSIS</u>	<u>2</u>	<u>FACW</u>
3. _____	_____	_____	3. _____	_____	_____
4. _____	_____	_____	4. _____	_____	_____
5. _____	_____	_____	5. _____	_____	_____
6. _____	_____	_____	6. _____	_____	_____
7. _____	_____	_____	7. _____	_____	_____

100 % dominant species that are OBL, FACW or FAC (except FAC-). 0 % bare ground

Remarks:

HYDROLOGY

Field observations: Depth of surface water: <u>0</u> (in.) Depth to free water in pit: <u>0</u> (in.) Depth to saturated soil: <u>0</u> (in.) Approximate slope: <u>< 5%</u> Within 100-year floodplain? <input checked="" type="radio"/> Yes <input type="radio"/> No Below OHWM or High Tide Line? <input checked="" type="radio"/> Yes <input type="radio"/> No	Wetland hydrology indicators: <input type="checkbox"/> Inundated <input type="checkbox"/> Water marks <input type="checkbox"/> Sediment deposits <input type="checkbox"/> Suppressed vegetation <input type="checkbox"/> Matting (algal or other) <input type="checkbox"/> Other (explain in remarks) <input type="checkbox"/> Saturated in upper 12" <input type="checkbox"/> Organic duff layer <input type="checkbox"/> Drainage patterns in wetlands <input checked="" type="checkbox"/> Oxidized root channels
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Physiographic position of site/Remarks: LOCATED IN BROOD ARTIFICIAL DRAINAGEWAY. NO SCOUR OR OTHER PHYSICAL EVIDENCE OF WATER FLOW.

SOILS

Map unit name: _____		Soil series permeability (from NRCS survey): _____	
Taxonomy (subgroup): _____		Field observations confirm mapped soil series? <input type="checkbox"/> Yes <input type="checkbox"/> No	

Depth (inches)	Horizon	Matrix Color (moist)	Redoximorphic Colors (moist)	Abundance/Contrast	Additional observations (texture, concretions, porosity, etc.)
<u>0-4</u>	<u>A1</u>	<u>10YR 3/2</u>	<u>10YR 4/4</u>	<u>15% DISTINCT</u>	<u>SILT LOAM (ALLUVIAL)</u>
<u>4-7+</u>	<u>A2</u>	<u>10YR 3/2</u>	<u>NONE</u>	<u>NONE</u>	<u>SILT LOAM</u>

Hydric Soil Indicators: <input checked="" type="checkbox"/> Abundant rhizospheres <input type="checkbox"/> Reducing conditions <input type="checkbox"/> High organic content in surface layer <input type="checkbox"/> Depleted mottles or matrix	<input type="checkbox"/> Gleying <input type="checkbox"/> Non-mollic, low-chroma colors <input type="checkbox"/> Iron or Mn mottles <input type="checkbox"/> Sulfidic odor	<input type="checkbox"/> Probable aquic moisture regime <input type="checkbox"/> Concretions <input type="checkbox"/> Listed on county hydric soils list <input type="checkbox"/> Other (explain in remarks)
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Remarks:

WETLAND DETERMINATION

Hydrophytic vegetation present <input checked="" type="radio"/> Yes <input type="radio"/> No Hydric soils present <input checked="" type="radio"/> Yes <input type="radio"/> No Wetland hydrology present <input checked="" type="radio"/> Yes <input type="radio"/> No	Is this sampling point within a wetland? <input checked="" type="radio"/> Yes <input type="radio"/> No
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Remarks:

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Project/Site: Lagoon Valley Applicant: Triad Homes Investigator(s): S. Lohmann, C. Bouril LSA Associates, Inc., 157 Park Place, Point Richmond, CA 94801 Have vegetation, soils, or hydrology been disturbed? <input checked="" type="radio"/> Yes <input type="radio"/> No Is the area a potential Problem Area? <input checked="" type="radio"/> Yes <input type="radio"/> No	Sample Site No.: <u>7</u> Date: July 17, 2003 Location: Vacaville County: Solano State: CA
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VEGETATION (Note those species observed to have morphological adaptations to wetlands with an asterisk "**")

Dominant Plant Species	% Cover	Indicator	Associated Plant Species	% Cover	Indicator
1. <u>LOLLIUM MULTIFLORUM</u>	<u>80</u>	<u>FAC</u>	1. _____	_____	_____
2. <u>TARAXACUM OFFICINALE</u>	<u>10</u>	<u>UPL</u>	2. _____	_____	_____
3. <u>RUMEX ACETOSELLA</u>	<u>1</u>	<u>FAC+</u>	3. _____	_____	_____
4. <u>HEMIZONIA PUNICATA</u>	<u>5</u>	_____	4. _____	_____	_____
5. <u>BORRERIA ALPINA</u>	<u>2</u>	<u>FAC</u>	5. _____	_____	_____
6. <u>BORRERIA ALPINA</u>	<u>1</u>	<u>FACU</u>	6. _____	_____	_____
7. <u>NETTLES</u>	<u>1</u>	_____	7. _____	_____	_____

100 % dominant species that are OBL, FACW or FAC (except FAC-). 20 % bare ground

Remarks:

HYDROLOGY

Field observations: Depth of surface water: _____ (in.) Depth to free water in pit: _____ (in.) Depth to saturated soil: _____ (in.) Approximate slope: <u>5%</u> Within 100-year floodplain? Yes <input checked="" type="radio"/> No <input type="radio"/> Below OHWM or High Tide Line? Yes <input checked="" type="radio"/> No <input type="radio"/>	Wetland hydrology indicators: <input type="checkbox"/> Inundated <input type="checkbox"/> Water marks <input type="checkbox"/> Sediment deposits <input type="checkbox"/> Suppressed vegetation <input type="checkbox"/> Matting (algal or other) <input checked="" type="checkbox"/> Other (explain in remarks) <u>HOOF PRINTS</u> <input type="checkbox"/> Saturated in upper 12" <input type="checkbox"/> Organic duff layer <input type="checkbox"/> Drainage patterns in wetlands <input checked="" type="checkbox"/> Oxidized root channels
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Physiographic position of site/Remarks: 7-9 SERIAL

SOILS

Map unit name: _____ Taxonomy (subgroup): _____	Soil series permeability (from NRCS survey): _____ Field observations confirm mapped soil series? Yes <input type="checkbox"/> No <input type="checkbox"/>				
Depth (inches) <u>0-3</u> _____ <u>3-</u> _____ _____	Horizon _____ _____ _____	Matrix Color (moist) <u>10TR4/3+</u> <u>10TR3/1</u> <u>10TR4/3</u>	Redoximorphic Colors (moist) <u>10TR4/4</u> _____ _____	Abundance/Contrast <u>3%</u> _____ _____	Additional observations (texture, concretions, porosity, etc.) <u>OLD, FADED NOTICES + RAIZOS SL</u> _____ _____
Hydric Soil Indicators: <input checked="" type="checkbox"/> Abundant rhizospheres <input type="checkbox"/> Reducing conditions <input type="checkbox"/> High organic content in surface layer <input type="checkbox"/> Depleted mottles or matrix <input type="checkbox"/> Gleying <input checked="" type="checkbox"/> Non-mollic, low-chroma colors <input type="checkbox"/> Iron or Mn mottles <input type="checkbox"/> Sulfidic odor <input type="checkbox"/> Probable aquic moisture regime <input type="checkbox"/> Concretions <input type="checkbox"/> Listed on county hydric soils list <input type="checkbox"/> Other (explain in remarks)					
Remarks:					

WETLAND DETERMINATION

Hydrophytic vegetation present <input checked="" type="radio"/> Yes <input type="radio"/> No Hydric soils present <input checked="" type="radio"/> Yes <input type="radio"/> No Wetland hydrology present <input checked="" type="radio"/> Yes <input type="radio"/> No	Is this sampling point within a wetland? <input checked="" type="radio"/> Yes <input type="radio"/> No
Remarks:	

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VEGETATION (Note those species observed to have morphological adaptations to wetlands with an asterisk "**")

Dominant Plant Species	% Cover	Indicator	Associated Plant Species	% Cover	Indicator
1. <u>TIDENOSTRAPHUM CACT-UMEDUSA</u>	<u>80</u>	<u>UPL</u>	1. _____	_____	_____
2. <u>LOLIGUM MULTIFLORUM</u>	<u>5</u>	<u>FAC</u>	2. _____	_____	_____
3. <u>CENTAURIA SOLSTITIALIS</u>	<u>5</u>	<u>UPL</u>	3. _____	_____	_____
4. <u>BROWNS HEDERACEOUS</u>	<u>10</u>	<u>FACU</u>	4. _____	_____	_____
5. _____	_____	_____	5. _____	_____	_____
6. _____	_____	_____	6. _____	_____	_____
7. _____	_____	_____	7. _____	_____	_____

0 % dominant species that are OBL, FACW or FAC (except FAC-). 0 % bare ground

Remarks:

HYDROLOGY

Field observations: Depth of surface water: _____ (in.) Depth to free water in pit: _____ (in.) Depth to saturated soil: _____ (in.) Approximate slope: <u>3%</u> Within 100-year floodplain? Yes <input checked="" type="radio"/> No <input type="radio"/> Below OHWM or High Tide Line? Yes <input checked="" type="radio"/> No <input type="radio"/>	Wetland hydrology indicators: <u>NONE</u> <input type="checkbox"/> Inundated <input type="checkbox"/> Water marks <input type="checkbox"/> Sediment deposits <input type="checkbox"/> Suppressed vegetation <input type="checkbox"/> Matting (algal or other) <input type="checkbox"/> Other (explain in remarks) <input type="checkbox"/> Saturated in upper 12" <input type="checkbox"/> Organic duff layer <input type="checkbox"/> Drainage patterns in wetlands <input type="checkbox"/> Oxidized root channels
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Physiographic position of site/Remarks:

SOILS

Map unit name: _____ Taxonomy (subgroup): _____	Soil series permeability (from NRCS survey): _____ Field observations confirm mapped soil series? Yes <input type="checkbox"/> No <input type="checkbox"/>
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Depth (inches)	Horizon	Matrix Color (moist)	Redoximorphic Colors (moist)	Abundance/Contrast	Additional observations (texture, concretions, porosity, etc.)
<u>0-8</u>	_____	<u>10YR3/1</u>	_____	_____	<u>cl</u>
_____	_____	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____

Hydric Soil Indicators: <u>NONE</u> <input type="checkbox"/> Abundant rhizospheres <input type="checkbox"/> Reducing conditions <input type="checkbox"/> High organic content in surface layer <input type="checkbox"/> Depleted mottles or matrix	<input type="checkbox"/> Gleying <input type="checkbox"/> Non-mollic, low-chroma colors <input type="checkbox"/> Iron or Mn mottles <input type="checkbox"/> Sulfidic odor	<input type="checkbox"/> Probable aquic moisture regime <input type="checkbox"/> Concretions <input type="checkbox"/> Listed on county hydric soils list <input type="checkbox"/> Other (explain in remarks)
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Remarks:

WETLAND DETERMINATION

Hydrophytic vegetation present Yes <input type="radio"/> No <input checked="" type="radio"/> Hydric soils present Yes <input type="radio"/> No <input checked="" type="radio"/> Wetland hydrology present Yes <input type="radio"/> No <input checked="" type="radio"/>	Is this sampling point within a wetland? Yes <input type="radio"/> No <input checked="" type="radio"/>
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Remarks:

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Project/Site: Lagoon Valley Applicant: Triad Homes Investigator(s): S. Lohmann, C. Bouril LSA Associates, Inc., 157 Park Place, Point Richmond, CA 94801 Have vegetation, soils, or hydrology been disturbed? <input checked="" type="radio"/> Yes <input type="radio"/> No Is the area a potential Problem Area? <input type="radio"/> Yes <input checked="" type="radio"/> No	Sample Site No.: <u>9</u> Date: July 17, 2003 Location: Vacaville County: Solano State: CA
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VEGETATION (Note those species observed to have morphological adaptations to wetlands with an asterisk "**")

Dominant Plant Species	% Cover	Indicator	Associated Plant Species	% Cover	Indicator
1. <u>HORDLEUM MARINUM</u>	<u>30</u>	<u>FAC</u>	1. _____	_____	_____
2. <u>HYPOCHERIS SP?</u>	<u>15</u>	<u>UPL</u>	2. _____	_____	_____
3. <u>LOCIUM WULFLOFUM</u>	<u>45</u>	<u>FAC</u>	3. _____	_____	_____
4. <u>WIGANTIA PULCHRUM</u>	<u>7</u>	<u>OBL</u>	4. _____	_____	_____
5. _____	_____	_____	5. _____	_____	_____
6. _____	_____	_____	6. _____	_____	_____
7. _____	_____	_____	7. _____	_____	_____

_____ % dominant species that are OBL, FACW or FAC (except FAC-). 5 % bare ground

Remarks: TAKEN FROM EXCLUDED FROM AREA (BY HYDROLOGY).

HYDROLOGY

Field observations: Depth of surface water: _____ (in.) Depth to free water in pit: _____ (in.) Depth to saturated soil: _____ (in.) Approximate slope: <u>12%</u> Within 100-year floodplain? Yes <input checked="" type="radio"/> No <input type="radio"/> Below OHWM or High Tide Line? Yes <input checked="" type="radio"/> No <input type="radio"/>	Wetland hydrology indicators: <input type="checkbox"/> Inundated <input type="checkbox"/> Water marks <input type="checkbox"/> Sediment deposits <input type="checkbox"/> Suppressed vegetation <input type="checkbox"/> Matting (algal or other) <input type="checkbox"/> Other (explain in remarks) <input type="checkbox"/> Saturated in upper 12" <input type="checkbox"/> Organic duff layer <input type="checkbox"/> Drainage patterns in wetlands <input checked="" type="checkbox"/> Oxidized root channels
Physiographic position of site/Remarks: _____	

SOILS

Map unit name: _____ Taxonomy (subgroup): _____	Soil series permeability (from NRCS survey): _____ Field observations confirm mapped soil series? Yes <input type="checkbox"/> No <input type="checkbox"/>				
Depth (inches) <u>0-2</u> <u>2-</u>	Horizon _____ _____	Matrix Color (moist) <u>10YR 7/1</u> _____	Redoximorphic Colors (moist) <u>10YR 4/3</u> <u>- 4A</u>	Abundance/Contrast <u>10% RHIZOS</u> <u>5% OBL</u>	Additional observations (texture, concretions, porosity, etc.) <u>INTOPI " CL</u> <u>5% OBL</u>
Hydric Soil Indicators: <input checked="" type="checkbox"/> Abundant rhizospheres <input type="checkbox"/> Reducing conditions <input type="checkbox"/> High organic content in surface layer <input type="checkbox"/> Depleted mottles or matrix <input type="checkbox"/> Gleying <input type="checkbox"/> Non-mollic, low-chroma colors <input type="checkbox"/> Iron or Mn mottles <input type="checkbox"/> Sulfidic odor <input type="checkbox"/> Probable aquic moisture regime <input type="checkbox"/> Concretions <input type="checkbox"/> Listed on county hydric soils list <input type="checkbox"/> Other (explain in remarks)					
Remarks: _____					

WETLAND DETERMINATION

Hydrophytic vegetation present <input checked="" type="radio"/> Yes <input type="radio"/> No Hydric soils present <input checked="" type="radio"/> Yes <input type="radio"/> No Wetland hydrology present <input checked="" type="radio"/> Yes <input type="radio"/> No	Is this sampling point within a wetland? <input checked="" type="radio"/> Yes <input type="radio"/> No
Remarks: _____	

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VEGETATION (Note those species observed to have morphological adaptations to wetlands with an asterisk "**")

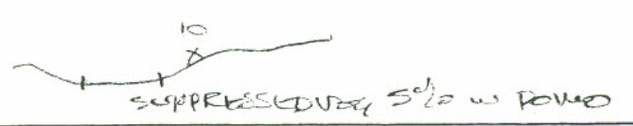
Dominant Plant Species	% Cover	Indicator	Associated Plant Species	% Cover	Indicator
1. <u>JUNCUS ROEMERII</u>	<u>34</u>	<u>FACW</u>	1. _____	_____	_____
2. <u>LOLIUM MULTIFLORUM</u>	<u>35</u>	<u>FAC</u>	2. _____	_____	_____
3. <u>POLYPOGON MONSPERANUS</u>	<u>5</u>	<u>FACW</u>	3. _____	_____	_____
4. <u>CITRISMA SOLSTITIALIS</u>	<u>5</u>	<u>UPL</u>	4. _____	_____	_____
5. <u>HORDLIUM RUBRUM</u>	<u>10</u>	<u>FAC</u>	5. _____	_____	_____
6. <u>TARAXACUM OFFICINALE</u>	<u>10</u>	<u>UPL</u>	6. _____	_____	_____
7. <u>ALFALFA SP.</u>	<u>1</u>	<u>UPL</u>	7. _____	_____	_____

100 % dominant species that are OBL, FACW or FAC (except FAC-). 50 % bare ground

Remarks:

HYDROLOGY

Field observations: Depth of surface water: _____ (in.) Depth to free water in pit: _____ (in.) Depth to saturated soil: _____ (in.) Approximate slope: <u>15%</u> Within 100-year floodplain? Yes <input checked="" type="radio"/> No <input type="radio"/> Below OHWM or High Tide Line? Yes <input checked="" type="radio"/> No <input type="radio"/>	Wetland hydrology indicators: <input type="checkbox"/> Inundated <input type="checkbox"/> Water marks <input type="checkbox"/> Sediment deposits <input type="checkbox"/> Suppressed vegetation <input type="checkbox"/> Matting (algal or other) <input checked="" type="checkbox"/> Other (explain in remarks) <u>HOE PRINTS</u> <input type="checkbox"/> Saturated in upper 12" <input type="checkbox"/> Organic duff layer <input type="checkbox"/> Drainage patterns in wetlands <input checked="" type="checkbox"/> Oxidized root channels
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Physiographic position of site/Remarks:
IN COLLY CUTURSA 

SOILS

Map unit name: _____ Taxonomy (subgroup): _____	Soil series permeability (from NRCS survey): _____ Field observations confirm mapped soil series? Yes <input type="checkbox"/> No <input type="checkbox"/>
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Depth (inches)	Horizon	Matrix Color (moist)	Redoximorphic Colors (moist)	Abundance/Contrast	Additional observations (texture, concretions, porosity, etc.)
<u>0-3</u>	_____	<u>10YR 5/4</u>	<u>5YR 5/4</u>	<u>5/2R 1/2</u>	_____
_____	_____	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____

Hydric Soil Indicators: <input checked="" type="checkbox"/> Abundant rhizospheres <input type="checkbox"/> Reducing conditions <input type="checkbox"/> High organic content in surface layer <input type="checkbox"/> Depleted mottles or matrix	<input type="checkbox"/> Gleying <input type="checkbox"/> Non-mollic, low-chroma colors <input type="checkbox"/> Iron or Mn mottles <input type="checkbox"/> Sulfidic odor	<input type="checkbox"/> Probable aquic moisture regime <input type="checkbox"/> Concretions <input type="checkbox"/> Listed on county hydric soils list <input type="checkbox"/> Other (explain in remarks)
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Remarks:

WETLAND DETERMINATION

Hydrophytic vegetation present <input checked="" type="radio"/> Yes <input type="radio"/> No Hydric soils present <input checked="" type="radio"/> Yes <input type="radio"/> No Wetland hydrology present <input checked="" type="radio"/> Yes <input type="radio"/> No	Is this sampling point within a wetland? <input checked="" type="radio"/> Yes <input type="radio"/> No
---	--

Remarks:

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VEGETATION (Note those species observed to have morphological adaptations to wetlands with an asterisk "**")

Dominant Plant Species	% Cover	Indicator	Associated Plant Species	% Cover	Indicator
1. <u>TORILIA FLORENTINA</u>	<u>60</u>	<u>UPL</u>	1. _____	_____	_____
2. <u>CENTAUREA SOLSTITIALIS</u>	<u>10</u>	<u>UPL</u>	2. _____	_____	_____
3. <u>BROWNS HORNBLOSSOM</u>	<u>10</u>	<u>FACW</u>	3. _____	_____	_____
4. <u>POWDER PUFF</u>	<u>5</u>	<u>FACW</u>	4. _____	_____	_____
5. <u>RUPELLA SP</u>	<u>5</u>	_____	5. _____	_____	_____
6. <u>LOLLY WORT</u>	<u>10</u>	<u>FAC</u>	6. _____	_____	_____
7. _____	_____	_____	7. _____	_____	_____

% dominant species that are OBL, FACW or FAC (except FAC-). % bare ground

Remarks:

HYDROLOGY

Field observations: Depth of surface water: _____ (in.) Depth to free water in pit: _____ (in.) Depth to saturated soil: _____ (in.) Approximate slope: Within 100-year floodplain? Yes No Below OHWM or High Tide Line? Yes No	Wetland hydrology indicators: <input type="checkbox"/> Inundated <input type="checkbox"/> Water marks <input type="checkbox"/> Sediment deposits <input type="checkbox"/> Suppressed vegetation <input type="checkbox"/> Matting (algal or other) <input type="checkbox"/> Other (explain in remarks) <input type="checkbox"/> Saturated in upper 12" <input type="checkbox"/> Organic duff layer <input type="checkbox"/> Drainage patterns in wetlands <input checked="" type="checkbox"/> Oxidized root channels
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Physiographic position of site/Remarks: NO EVIDENCE OF WETLAND HYDROLOGY SURFACE

SOILS

Map unit name: _____ Taxonomy (subgroup): _____	Soil series permeability (from NRCS survey): _____ Field observations confirm mapped soil series? Yes No
--	---

Depth (inches)	Horizon	Matrix Color (moist)	Redoximorphic Colors (moist)	Abundance/Contrast	Additional observations (texture, concretions, porosity, etc.)
<u>0 -</u>	_____	<u>10R2/2</u>	<u>10PRA/4</u>	<u>5% RHIZOS</u>	<u>NEW SURFACED</u>
_____	_____	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____

Hydric Soil Indicators: <input type="checkbox"/> Abundant rhizospheres <input type="checkbox"/> Reducing conditions <input type="checkbox"/> High organic content in surface layer <input type="checkbox"/> Depleted mottles or matrix	<input type="checkbox"/> Gleying <input type="checkbox"/> Non-mollic, low-chroma colors <input type="checkbox"/> Iron or Mn mottles <input type="checkbox"/> Sulfidic odor	<input type="checkbox"/> Probable aquic moisture regime <input type="checkbox"/> Concretions <input type="checkbox"/> Listed on county hydric soils list <input type="checkbox"/> Other (explain in remarks)
--	---	---

Remarks:

WETLAND DETERMINATION

Hydrophytic vegetation present Yes <input type="radio"/> No <input checked="" type="radio"/> Hydric soils present <input checked="" type="radio"/> Yes <input type="radio"/> No Wetland hydrology present Yes <input type="radio"/> No <input checked="" type="radio"/>	Is this sampling point within a wetland? Yes <input type="radio"/> No <input checked="" type="radio"/>
---	--

Remarks:

DATA FORM: ROUTINE WETLAND DETERMINATION (1987 COE Wetlands Delineation Manual)

Project/Site: Lagoon Valley Applicant: Triad Homes Investigator(s): S. Lohmann, C. Bouril LSA Associates, Inc., 157 Park Place, Point Richmond, CA 94801 Have vegetation, soils, or hydrology been disturbed? <input checked="" type="radio"/> Yes <input type="radio"/> No Is the area a potential Problem Area? <input checked="" type="radio"/> Yes <input type="radio"/> No	Sample Site No.: <u>12</u> Date: July 17, 2003 Location: Vacaville County: Solano State: CA
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VEGETATION (Note those species observed to have morphological adaptations to wetlands with an asterisk "**")

Dominant Plant Species	% Cover	Indicator	Associated Plant Species	% Cover	Indicator
1. <u>JUNCUS XIPHIODES</u>	_____	<u>OBL</u>	1. _____	_____	_____
2. <u>LEUMOS TITICOIDES</u>	_____	<u>FAC+</u>	2. _____	_____	_____
3. _____	_____	_____	3. _____	_____	_____
4. _____	_____	_____	4. _____	_____	_____
5. _____	_____	_____	5. _____	_____	_____
6. _____	_____	_____	6. _____	_____	_____
7. _____	_____	_____	7. _____	_____	_____

100 % dominant species that are OBL, FACW or FAC (except FAC-). _____ % bare ground

Remarks: _____

HYDROLOGY

Field observations: Depth of surface water: <u>0</u> (in.) Depth to free water in pit: <u>0</u> (in.) Depth to saturated soil: <u>0</u> (in.) Approximate slope: <u>2 LEVEL</u> Within 100-year floodplain? Yes No ? Below OHWM or High Tide Line? Yes No	Wetland hydrology indicators: <input type="checkbox"/> Inundated <input type="checkbox"/> Water marks <input type="checkbox"/> Sediment deposits <input type="checkbox"/> Suppressed vegetation <input type="checkbox"/> Matting (algal or other) <input type="checkbox"/> Other (explain in remarks) <input type="checkbox"/> Saturated in upper 12" <input type="checkbox"/> Organic duff layer <input type="checkbox"/> Drainage patterns in wetlands <input checked="" type="checkbox"/> Oxidized root channels
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Physiographic position of site/Remarks: LAST YEARS VEGETATION FLATTENED BY FLOW. SITE LOCATED IN BROAD, ARTIFICIAL DRAINAGEWAY.

SOILS

Map unit name: _____ Taxonomy (subgroup): _____	Soil series permeability (from NRCS survey): _____ Field observations confirm mapped soil series? Yes No
--	---

Depth (inches)	Horizon	Matrix Color (moist)	Redoximorphic Colors (moist)	Abundance/Contrast	Additional observations (texture, concretions, porosity, etc.)
<u>0-6</u>	_____	<u>10YR 3/2</u>	<u>10YR 4/4</u>	<u>2%</u>	<u>Rh</u>
_____	_____	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____

Hydric Soil Indicators: <input type="checkbox"/> Abundant rhizospheres <input type="checkbox"/> Reducing conditions <input type="checkbox"/> High organic content in surface layer <input type="checkbox"/> Depleted mottles or matrix	<input type="checkbox"/> Gleying <input checked="" type="checkbox"/> Non-mollic, low-chroma colors <input checked="" type="checkbox"/> Iron or Mn mottles <input type="checkbox"/> Sulfidic odor	<input type="checkbox"/> Probable aquic moisture regime <input type="checkbox"/> Concretions <input type="checkbox"/> Listed on county hydric soils list <input type="checkbox"/> Other (explain in remarks)
--	---	---

Remarks: _____

WETLAND DETERMINATION

Hydrophytic vegetation present <input checked="" type="radio"/> Yes <input type="radio"/> No Hydric soils present <input checked="" type="radio"/> Yes <input type="radio"/> No Wetland hydrology present <input checked="" type="radio"/> Yes <input type="radio"/> No	Is this sampling point within a wetland? <input checked="" type="radio"/> Yes <input type="radio"/> No
---	--

Remarks: _____

DATA FORM: ROUTINE WETLAND DETERMINATION (1987 COE Wetlands Delineation Manual)

Project/Site: Lagoon Valley Applicant: Triad Homes Investigator(s): S. Lohmann, C. Bouril LSA Associates, Inc., 157 Park Place, Point Richmond, CA 94801 Have vegetation, soils, or hydrology been disturbed? <input checked="" type="radio"/> Yes <input type="radio"/> No Is the area a potential Problem Area? <input checked="" type="radio"/> Yes <input type="radio"/> No	Sample Site No.: <u>13</u> Date: July 17, 2003 Location: Vacaville - County: Solano State: CA
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VEGETATION (Note those species observed to have morphological adaptations to wetlands with an asterisk "**")

Dominant Plant Species	% Cover	Indicator	Associated Plant Species	% Cover	Indicator
1. <u>LOLIUM MULTIFLORUM</u>	<u>50</u>	<u>EP-</u>	1. <u>RUMEX CRISPUS</u>	<u>5</u>	
2. <u>ANDELEM MACRUM</u>	<u>45</u>	<u>FAC-</u>	2. _____		
3. _____			3. _____		
4. _____			4. _____		
5. _____			5. _____		
6. _____			6. _____		
7. _____			7. _____		

100 % dominant species that are OBL, FACW or FAC (except FAC-). _____ % bare ground

Remarks:

HYDROLOGY

Field observations: Depth of surface water: _____ (in.) Depth to free water in pit: _____ (in.) Depth to saturated soil: _____ (in.) Approximate slope: <u>< 2%</u> Within 100-year floodplain? Yes <input checked="" type="radio"/> No <input type="radio"/> Below OHWM or High Tide Line? Yes <input checked="" type="radio"/> No <input type="radio"/>	Wetland hydrology indicators: <input type="checkbox"/> Inundated <input type="checkbox"/> Water marks <input type="checkbox"/> Sediment deposits <input type="checkbox"/> Suppressed vegetation <input type="checkbox"/> Matting (algal or other) <input type="checkbox"/> Other (explain in remarks) <input type="checkbox"/> Saturated in upper 12" <input type="checkbox"/> Organic duff layer <input type="checkbox"/> Drainage patterns in wetlands <input checked="" type="checkbox"/> Oxidized root channels
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Physiographic position of site/Remarks: POSSIBLY IN VICINITY OF OLD STREAMCOURSE, NOW FILLED. NO EVIDENCE OF WETLAND HYDROLOGY.

SOILS

Map unit name: _____ Taxonomy (subgroup): _____	Soil series permeability (from NRCS survey): _____ Field observations confirm mapped soil series? Yes <input type="checkbox"/> No <input type="checkbox"/>
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Depth (inches)	Horizon	Matrix Color (moist)	Redoximorphic Colors (moist)	Abundance/Contrast	Additional observations (texture, concretions, porosity, etc.)
<u>0-3</u>		<u>10YR 7/2</u>	<u>15YR 4/4</u>	<u>< 1%</u>	<u>FADED Rh</u>
<u>3-10</u>		<u>10YR 3/2</u>	<u>NONE</u>		

Hydric Soil Indicators:

<input type="checkbox"/> Abundant rhizospheres	<input type="checkbox"/> Gleying	<input type="checkbox"/> Probable aquic moisture regime
<input type="checkbox"/> Reducing conditions	<input type="checkbox"/> Non-mollic, low-chroma colors	<input type="checkbox"/> Concretions
<input type="checkbox"/> High organic content in surface layer	<input type="checkbox"/> Iron or Mn mottles	<input type="checkbox"/> Listed on county hydric soils list
<input type="checkbox"/> Depleted mottles or matrix	<input type="checkbox"/> Sulfidic odor	<input type="checkbox"/> Other (explain in remarks)

Remarks:

WETLAND DETERMINATION

Hydrophytic vegetation present <input checked="" type="radio"/> Yes <input type="radio"/> No Hydric soils present Yes <input checked="" type="radio"/> No <input type="radio"/> Wetland hydrology present Yes <input checked="" type="radio"/> No <input type="radio"/>	Is this sampling point within a wetland? Yes <input type="checkbox"/> No <input checked="" type="radio"/>
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Remarks:

DATA FORM: ROUTINE WETLAND DETERMINATION (1987 COE Wetlands Delineation Manual)

Project/Site: Lagoon Valley Applicant: Triad Homes Investigator(s): S. Lohmann, C. Bouril LSA Associates, Inc., 157 Park Place, Point Richmond, CA 94801 Have vegetation, soils, or hydrology been disturbed? <input checked="" type="radio"/> Yes <input type="radio"/> No Is the area a potential Problem Area? <input checked="" type="radio"/> Yes <input type="radio"/> No	Sample Site No.: <u>14</u> Date: July 17, 2003 Location: Vacaville County: Solano State: CA
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VEGETATION (Note those species observed to have morphological adaptations to wetlands with an asterisk "**")

Dominant Plant Species	% Cover	Indicator	Associated Plant Species	% Cover	Indicator
1. <u>POLYPOGON MONSPELIENSIS</u>	<u>50</u>	<u>FACW</u>	1. <u>RUMEX CRISPUS</u>	<u>5</u>	<u>FACW</u>
2. <u>PICIS ECHINOIDES</u>	<u>40</u>	<u>FAC+</u>	2. <u>LOLIUM MULTIFLORUM</u>	<u>5</u>	<u>FAC</u>
3. _____	_____	_____	3. _____	_____	_____
4. _____	_____	_____	4. _____	_____	_____
5. _____	_____	_____	5. _____	_____	_____
6. _____	_____	_____	6. _____	_____	_____
7. _____	_____	_____	7. _____	_____	_____

(50) % dominant species that are OBL, FACW or FAC (except FAC-). _____ % bare ground

Remarks:

HYDROLOGY

Field observations: Depth of surface water: _____ (in.) Depth to free water in pit: _____ (in.) Depth to saturated soil: _____ (in.) Approximate slope: Within 100-year floodplain? Yes <input type="checkbox"/> No <input type="checkbox"/> Below OHWM or High Tide Line? Yes <input type="checkbox"/> No <input type="checkbox"/>	Wetland hydrology indicators: <input type="checkbox"/> Inundated <input type="checkbox"/> Water marks <input type="checkbox"/> Sediment deposits <input type="checkbox"/> Suppressed vegetation <input type="checkbox"/> Matting (algal or other) <input type="checkbox"/> Other (explain in remarks) <input type="checkbox"/> Saturated in upper 12" <input type="checkbox"/> Organic duff layer <input type="checkbox"/> Drainage patterns in wetlands <input type="checkbox"/> Oxidized root channels
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Physiographic position of site/Remarks: LOCATED IN SUSPECTED LOCATION OF OLD STREAM CHANNEL NOW FILLED. NO EVIDENCE OF WATER FLOW.

SOILS

Map unit name: _____ Taxonomy (subgroup): _____	Soil series permeability (from NRCS survey): _____ Field observations confirm mapped soil series? Yes <input type="checkbox"/> No <input type="checkbox"/>
--	---

Depth (inches)	Horizon	Matrix Color (moist)	Redoximorphic Colors (moist)	Abundance/Contrast	Additional observations (texture, concretions, porosity, etc.)
<u>a- 10</u>	_____	<u>10YR 3/2</u>	<u>NO</u>	_____	<u>SICC</u>
_____	_____	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____

Hydric Soil Indicators: <input type="checkbox"/> Abundant rhizospheres <input type="checkbox"/> Reducing conditions <input type="checkbox"/> High organic content in surface layer <input type="checkbox"/> Depleted mottles or matrix	<input type="checkbox"/> Gleying <input type="checkbox"/> Non-mollic, low-chroma colors <input type="checkbox"/> Iron or Mn mottles <input type="checkbox"/> Sulfidic odor	<input type="checkbox"/> Probable aquic moisture regime <input type="checkbox"/> Concretions <input type="checkbox"/> Listed on county hydric soils list <input type="checkbox"/> Other (explain in remarks)
--	---	---

Remarks:

WETLAND DETERMINATION

Hydrophytic vegetation present <input checked="" type="radio"/> Yes <input type="radio"/> No Hydric soils present <input type="radio"/> Yes <input checked="" type="radio"/> No Wetland hydrology present <input type="radio"/> Yes <input checked="" type="radio"/> No	Is this sampling point within a wetland? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>
---	--

Remarks:

DATA FORM: ROUTINE WETLAND DETERMINATION (1987 COE Wetlands Delineation Manual)

Project/Site: Lagoon Valley Applicant: Triad Homes Investigator(s): S. Lohmann, C. Bouril LSA Associates, Inc., 157 Park Place, Point Richmond, CA 94801 Have vegetation, soils, or hydrology been disturbed? Yes No Is the area a potential Problem Area? Yes No	Sample Site No.: 15 Date: July 17, 2003 Location: Vacaville County: Solano State: CA
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VEGETATION (Note those species observed to have morphological adaptations to wetlands with an asterisk "**")

Dominant Plant Species	% Cover	Indicator	Associated Plant Species	% Cover	Indicator
1. <u>HURDEUM MARIANUM</u>	40	FAC	1. <u>RUMEX CRISPUS</u>	5	FACW
2. <u>PICIS KCHOIDES</u>	35	FAC +	2. _____	_____	_____
3. <u>LOLIUM MULTIFLORUM</u>	20	FAC	3. _____	_____	_____
4. _____	_____	_____	4. _____	_____	_____
5. _____	_____	_____	5. _____	_____	_____
6. _____	_____	_____	6. _____	_____	_____
7. _____	_____	_____	7. _____	_____	_____

(40) % dominant species that are OBL, FACW or FAC (except FAC-). _____ % bare ground

Remarks:

HYDROLOGY

Field observations: Depth of surface water: _____ (in.) Depth to free water in pit: _____ (in.) Depth to saturated soil: _____ (in.) Approximate slope: Within 100-year floodplain? Yes No Below OHWM or High Tide Line? Yes No	Wetland hydrology indicators: <input type="checkbox"/> Inundated <input type="checkbox"/> Water marks <input type="checkbox"/> Sediment deposits <input type="checkbox"/> Suppressed vegetation <input type="checkbox"/> Matting (algal or other) <input type="checkbox"/> Other (explain in remarks) <input type="checkbox"/> Saturated in upper 12" <input type="checkbox"/> Organic duff layer <input type="checkbox"/> Drainage patterns in wetlands <input type="checkbox"/> Oxidized root channels
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Physiographic position of site/Remarks: LOCATED IN ASSUMED, FORMER STREAM LOCATION. NO EVIDENCE OF WATER FLOW OR SATURATION.

SOILS

Map unit name: _____ Taxonomy (subgroup): _____	Soil series permeability (from NRCS survey): _____ Field observations confirm mapped soil series? Yes No
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Depth (inches)	Horizon	Matrix Color (moist)	Redoximorphic Colors (moist)	Abundance/Contrast	Additional observations (texture, concretions, porosity, etc.)
0-8		10YR 7/2	NONE		SILT
		SOME 10YR 7/1			
		TILLED - M			

Hydric Soil Indicators: <input type="checkbox"/> Abundant rhizospheres <input type="checkbox"/> Reducing conditions <input type="checkbox"/> High organic content in surface layer <input type="checkbox"/> Depleted mottles or matrix	<input type="checkbox"/> Gleying <input type="checkbox"/> Non-mollic, low-chroma colors <input type="checkbox"/> Iron or Mn mottles <input type="checkbox"/> Sulfidic odor	<input type="checkbox"/> Probable aquic moisture regime <input type="checkbox"/> Concretions <input type="checkbox"/> Listed on county hydric soils list <input type="checkbox"/> Other (explain in remarks)
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Remarks:

WETLAND DETERMINATION

Hydrophytic vegetation present <u>Yes</u> No Hydric soils present Yes <u>No</u> Wetland hydrology present Yes <u>No</u>	Is this sampling point within a wetland? Yes <u>No</u>
---	--

Remarks:

DATA FORM: ROUTINE WETLAND DETERMINATION (1987 COE Wetlands Delineation Manual)

Project/Site: Lagoon Valley	Sample Site No.: 16
Applicant: Triad Homes	Date: July 17, 2003
Investigator(s): S. Lohmann, C. Bouril	Location: Vacaville
LSA Associates, Inc., 157 Park Place, Point Richmond, CA 94801	County: Solano
Have vegetation, soils, or hydrology been disturbed? Yes No	State: CA
Is the area a potential Problem Area? Yes No	

VEGETATION (Note those species observed to have morphological adaptations to wetlands with an asterisk "**")

Dominant Plant Species	% Cover	Indicator	Associated Plant Species	% Cover	Indicator
1. <u>LOLUM MULTIFLORUM</u>	<u>66</u>	<u>FAC</u>	1. <u>RUMEX CRISPUS</u>	<u>1</u>	<u>FACW</u>
2. <u>PITISY ECHINOIDEJ</u>	<u>20</u>	<u>FAC</u>	2. _____	_____	_____
3. <u>HUIDRUM MARITIMUM</u>	<u>20</u>	<u>FAC</u>	3. _____	_____	_____
4. _____	_____	_____	4. _____	_____	_____
5. _____	_____	_____	5. _____	_____	_____
6. _____	_____	_____	6. _____	_____	_____
7. _____	_____	_____	7. _____	_____	_____

100 % dominant species that are OBL, FACW or FAC (except FAC-). _____ % bare ground

Remarks:

HYDROLOGY

Field observations:	Wetland hydrology indicators:
Depth of surface water: _____ (in.)	_____ Inundated
Depth to free water in pit: _____ (in.)	_____ Water marks
Depth to saturated soil: _____ (in.)	_____ Sediment deposits
Approximate slope: _____	_____ Suppressed vegetation
Within 100-year floodplain? Yes No	_____ Matting (algal or other)
Below OHWM or High Tide Line? Yes No	_____ Other (explain in remarks)
	_____ Saturated in upper 12"
	_____ Organic duff layer
	_____ Drainage patterns in wetlands
	_____ Oxidized root channels

Physiographic position of site/Remarks: LOCATED IN OPEN FIELD - NO EVIDENCE OF WETLAND HYDROLOGY

SOILS

Map unit name: _____	Soil series permeability (from NRCS survey): _____				
Taxonomy (Subgroup): _____	Field observations confirm mapped soil series? Yes No				
Depth (inches)	Horizon	Matrix Color (moist)	Redoximorphic Colors (moist)	Abundance/Contrast	Additional observations (texture, concretions, porosity, etc.)
<u>0-3</u>		<u>10YR 3/2</u>	<u>NONE</u>		
<u>3-7</u>		<u>10YR 4/2</u>	<u>"</u>		
<u>7-12</u>	<u>MIXED</u>	<u>(10YR 3/2</u>	<u>4</u>		
		<u>N 2.5</u>			

Hydric Soil Indicators:

_____ Abundant rhizospheres	_____ Gleying	_____ Probable aquic moisture regime
_____ Reducing conditions	_____ Non-mollic, low-chroma colors	_____ Concretions
_____ High organic content in surface layer	_____ Iron or Mn mottles	_____ Listed on county hydric soils list
_____ Depleted mottles or matrix	_____ Sulfidic odor	_____ Other (explain in remarks)

Remarks:

WETLAND DETERMINATION

Hydrophytic vegetation present <u>Yes</u> No	Is this sampling point within a wetland? Yes <u>No</u>
Hydric soils present Yes <u>No</u>	
Wetland hydrology present Yes <u>No</u>	

Remarks:

DATA FORM: ROUTINE WETLAND DETERMINATION (1987 COE Wetlands Delineation Manual)

Project/Site: Lagoon Valley Applicant: Triad Homes Investigator(s): S. Lohmann, C. Bouril LSA Associates, Inc., 157 Park Place, Point Richmond, CA 94801 Have vegetation, soils, or hydrology been disturbed? <input checked="" type="radio"/> Yes <input type="radio"/> No Is the area a potential Problem Area? <input checked="" type="radio"/> Yes <input type="radio"/> No	Sample Site No.: 17 Date: July 17, 2003 Location: Vacaville County: Solano State: CA
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VEGETATION (Note those species observed to have morphological adaptations to wetlands with an asterisk "**")

Dominant Plant Species	% Cover	Indicator	Associated Plant Species	% Cover	Indicator
1. JUNCUS PATENS	100	FAC	1. _____	_____	_____
2. _____	_____	_____	2. _____	_____	_____
3. _____	_____	_____	3. _____	_____	_____
4. _____	_____	_____	4. _____	_____	_____
5. _____	_____	_____	5. _____	_____	_____
6. _____	_____	_____	6. _____	_____	_____
7. _____	_____	_____	7. _____	_____	_____

_____ % dominant species that are OBL, FACW or FAC (except FAC-). _____ % bare ground

Remarks: JUST 20' DIAMETER JUNCUS MONOCULTURE. OTHER JUNCUS PATCHES NEARBY

HYDROLOGY

Field observations: Depth of surface water: NONE (in.) Depth to free water in pit: " (in.) Depth to saturated soil: " (in.) Approximate slope: LEVEL Within 100-year floodplain? Yes No Below OHWM or High Tide Line? Yes No	Wetland hydrology indicators: <input type="checkbox"/> Inundated <input type="checkbox"/> Water marks <input type="checkbox"/> Sediment deposits <input type="checkbox"/> Suppressed vegetation <input type="checkbox"/> Matting (algal or other) <input type="checkbox"/> Other (explain in remarks) <input type="checkbox"/> Saturated in upper 12" <input type="checkbox"/> Organic duff layer <input type="checkbox"/> Drainage patterns in wetlands <input type="checkbox"/> Oxidized root channels
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Physiographic position of site/Remarks: LOCATED IN SUSPECTED FILLED STREAM CHANNEL

SOILS

Map unit name: _____ Taxonomy (subgroup): _____	Soil series permeability (from NRCS survey): _____ Field observations confirm mapped soil series? Yes No				
Depth (inches) 0-10	Horizon _____	Matrix Color (moist) 10YR 3/2 10YR 6/1 N 2/6	Redoximorphic Colors (moist) NONE →	Abundance/Contrast _____	Additional observations (texture, concretions, porosity, etc.) POSSIBLE CLAY POKETS 1-2 MM (OBL) REDUCED ROOT CHANNELS.
Hydric Soil Indicators: <input type="checkbox"/> Abundant rhizospheres <input type="checkbox"/> Reducing conditions <input type="checkbox"/> High organic content in surface layer <input type="checkbox"/> Depleted mottles or matrix <input checked="" type="checkbox"/> Gleying <input checked="" type="checkbox"/> Non-mollic, low-chroma colors <input type="checkbox"/> Iron or Mn mottles <input type="checkbox"/> Sulfidic odor <input type="checkbox"/> Probable aquic moisture regime <input type="checkbox"/> Concretions <input type="checkbox"/> Listed on county hydric soils list <input type="checkbox"/> Other (explain in remarks)					

Remarks: DEPLETED RHIZOSPHERES

WETLAND DETERMINATION

Hydrophytic vegetation present <input checked="" type="radio"/> Yes <input type="radio"/> No Hydric soils present <input checked="" type="radio"/> Yes <input type="radio"/> No Wetland hydrology present <input checked="" type="radio"/> Yes <input type="radio"/> No	Is this sampling point within a wetland? <input checked="" type="radio"/> Yes <input type="radio"/> No
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Remarks:

DATA FORM: ROUTINE WETLAND DETERMINATION (1987 COE Wetlands Delineation Manual)

Project/Site: Lagoon Valley Applicant: Triad Homes Investigator(s): S. Lohmann, C. Bouril LSA Associates, Inc., 157 Park Place, Point Richmond, CA 94801 Have vegetation, soils, or hydrology been disturbed? Yes No Is the area a potential Problem Area? Yes No	Sample Site No.: <u>19</u> Date: July 17, 2003 Location: Vacaville County: Solano State: CA
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VEGETATION (Note those species observed to have morphological adaptations to wetlands with an asterisk "**")

Dominant Plant Species	% Cover	Indicator	Associated Plant Species	% Cover	Indicator
1. <u>LEPIDIUM LATIFOLIUM</u>	<u>50</u>	<u>FACW</u>	1. <u>POLYPEDON MONSPELIENSIS</u>	<u>5</u>	<u>FACW</u>
2. <u>SCIRPUS CALIFORNICA (ROUND)</u>	<u>25</u>	<u>OBL</u>	2. _____	_____	_____
3. <u>LOTUS MULTIFLORUM</u>	<u>20</u>	<u>FAC</u>	3. _____	_____	_____
4. _____	_____	_____	4. _____	_____	_____
5. _____	_____	_____	5. _____	_____	_____
6. _____	_____	_____	6. _____	_____	_____
7. _____	_____	_____	7. _____	_____	_____

100 % dominant species that are OBL, FACW or FAC (except FAC-). 10 % bare ground

Remarks:

HYDROLOGY

Field observations: Depth of surface water: <u>0</u> (in.) Depth to free water in pit: <u>0</u> (in.) Depth to saturated soil: <u>0</u> (in.) Approximate slope: <u>LEVEL</u> Within 100-year floodplain? Yes No Below OHWM or High Tide Line? Yes <u>No</u>	Wetland hydrology indicators: <input type="checkbox"/> Inundated <input type="checkbox"/> Water marks <input type="checkbox"/> Sediment deposits <input type="checkbox"/> Suppressed vegetation <input type="checkbox"/> Matting (algal or other) <input type="checkbox"/> Other (explain in remarks) <input type="checkbox"/> Saturated in upper 12" <input type="checkbox"/> Organic duff layer <input type="checkbox"/> Drainage patterns in wetlands <input type="checkbox"/> Oxidized root channels
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Physiographic position of site/Remarks: LOCATED ADJACENT TO DRAINAGE DITCH SLIGHTLY DROPS BELOW 6" ABOUT 65' FROM NEAR EDGE OF ROAD.

SOILS

Map unit name: _____	Soil series permeability (from NRCS survey): _____
Taxonomy (subgroup): _____	Field observations confirm mapped soil series? Yes No

Depth (inches)	Horizon	Matrix Color (moist)	Redoximorphic Colors (moist)	Abundance/Contrast	Additional observations (texture, concretions, porosity, etc.)
<u>0-5</u>	_____	<u>10YR 4/2</u>	_____	_____	_____
<u>5-10</u>	_____	<u>10YR 4/2</u>	_____	_____	_____
_____	_____	<u>10YR 4/3</u>	_____	_____	_____
<u>8-10+</u>	_____	<u>10YR 4/3</u>	_____	_____	_____
_____	_____	<u>10YR 6/6</u>	_____	_____	_____

Hydric Soil Indicators: <u>NONE</u>	Gleying	Probable aquic moisture regime
<input type="checkbox"/> Abundant rhizospheres	<input type="checkbox"/> Non-mollic, low-chroma colors	<input type="checkbox"/> Concretions
<input type="checkbox"/> Reducing conditions	<input type="checkbox"/> Iron or Mn mottles	<input type="checkbox"/> Listed on county hydric soils list
<input type="checkbox"/> High organic content in surface layer	<input type="checkbox"/> Sulfidic odor	<input type="checkbox"/> Other (explain in remarks)
<input type="checkbox"/> Depleted mottles or matrix		

Remarks: GRADED / MIXED BY GRADING

WETLAND DETERMINATION

Hydrophytic vegetation present <u>Yes</u> No Hydric soils present Yes <u>No</u> Wetland hydrology present Yes <u>No</u>	Is this sampling point within a wetland? Yes <u>No</u>
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Remarks:

DATA FORM: ROUTINE WETLAND DETERMINATION (1987 COE Wetlands Delineation Manual)

Project/Site: Lagoon Valley Applicant: Triad Homes Investigator(s): S. Lohmann, C. Bouril LSA Associates, Inc., 157 Park Place, Point Richmond, CA 94801 Have vegetation, soils, or hydrology been disturbed? <input checked="" type="radio"/> Yes <input type="radio"/> No Is the area a potential Problem Area? <input checked="" type="radio"/> Yes <input type="radio"/> No	Sample Site No.: <u>19</u> Date: July 17, 2003 Location: Vacaville County: Solano State: CA
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VEGETATION (Note those species observed to have morphological adaptations to wetlands with an asterisk "**")

Dominant Plant Species	% Cover	Indicator	Associated Plant Species	% Cover	Indicator
1. <u>COLUCA MULTIFLORA</u>	<u>65</u>	<u>FBC</u>	1. _____	_____	_____
2. <u>LOTUS CORNICULATUS</u>	<u>20</u>	<u>FAC</u>	2. _____	_____	_____
3. <u>WALWELLA LEPROSA</u>	<u>10</u>	<u>FAC</u>	3. _____	_____	_____
4. <u>POLYPYGONUM MONSPERIENSIS</u>	<u>5</u>	<u>FACW</u>	4. _____	_____	_____
5. _____	_____	_____	5. _____	_____	_____
6. _____	_____	_____	6. _____	_____	_____
7. _____	_____	_____	7. _____	_____	_____

(62) % dominant species that are OBL, FACW or FAC (except FAC-). 0 % bare ground

Remarks:

HYDROLOGY

Field observations: Depth of surface water: _____ (in.) Depth to free water in pit: _____ (in.) Depth to saturated soil: _____ (in.) Approximate slope: <u>< 2%</u> Within 100-year floodplain? Yes <input checked="" type="radio"/> No <input type="radio"/> Below OHWM or High Tide Line? Yes <input checked="" type="radio"/> No <input type="radio"/>	Wetland hydrology indicators: <u>NONE</u> <input type="checkbox"/> Inundated <input type="checkbox"/> Water marks <input type="checkbox"/> Sediment deposits <input type="checkbox"/> Suppressed vegetation <input type="checkbox"/> Matting (algal or other) <input type="checkbox"/> Other (explain in remarks) <input type="checkbox"/> Saturated in upper 12" <input type="checkbox"/> Organic duff layer <input type="checkbox"/> Drainage patterns in wetlands <input type="checkbox"/> Oxidized root channels
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Physiographic position of site/Remarks: IN FIELD, 'UPSLOPE' COMPARISON w/ # 18

SOILS

Map unit name: _____ Taxonomy (subgroup): _____	Soil series permeability (from NRCS survey): _____ Field observations confirm mapped soil series? Yes <input type="checkbox"/> No <input type="checkbox"/>
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Depth (inches)	Horizon	Matrix Color (moist)	Redoximorphic Colors (moist)	Abundance/Contrast	Additional observations (texture, concretions, porosity, etc.)
<u>0-8</u>	_____	<u>10YR 2/2</u>	_____	_____	<u>SL</u>
_____	_____	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____

Hydric Soil Indicators: NONE

<input type="checkbox"/> Abundant rhizospheres	<input type="checkbox"/> Gleying	<input type="checkbox"/> Probable aquic moisture regime
<input type="checkbox"/> Reducing conditions	<input type="checkbox"/> Non-mollic, low-chroma colors	<input type="checkbox"/> Concretions
<input type="checkbox"/> High organic content in surface layer	<input type="checkbox"/> Iron or Mn mottles	<input type="checkbox"/> Listed on county hydric soils list
<input type="checkbox"/> Depleted mottles or matrix	<input type="checkbox"/> Sulfidic odor	<input type="checkbox"/> Other (explain in remarks)

Remarks:

WETLAND DETERMINATION

Hydrophytic vegetation present <input checked="" type="radio"/> Yes <input type="radio"/> No Hydric soils present Yes <input checked="" type="radio"/> No <input type="radio"/> Wetland hydrology present Yes <input checked="" type="radio"/> No <input type="radio"/>	Is this sampling point within a wetland? Yes <input type="checkbox"/> No <input checked="" type="radio"/>
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Remarks:

DATA FORM: ROUTINE WETLAND DETERMINATION (1987 COE Wetlands Delineation Manual)

Project/Site: Lagoon Valley Applicant: Triad Homes Investigator(s): S. Lohmann, C. Bouril LSA Associates, Inc., 157 Park Place, Point Richmond, CA 94801 Have vegetation, soils, or hydrology been disturbed? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No Is the area a potential Problem Area? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	Sample Site No.: <u>21</u> Date: July 17, 2003 Location: Vacaville County: Solano State: CA
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VEGETATION (Note those species observed to have morphological adaptations to wetlands with an asterisk "**")

Dominant Plant Species	% Cover	Indicator	Associated Plant Species	% Cover	Indicator
1. <u>HORDSOM MARITIMUM</u>	<u>35</u>	<u>FAC</u>	1. _____	_____	_____
2. <u>MORUELLA SEPROSA</u>	<u>5</u>	<u>FAC</u>	2. _____	_____	_____
3. <u>LETUS CORNICURATUS</u>	<u>5</u>	<u>FAC</u>	3. _____	_____	_____
4. <u>CRUSA TROXILENSIS</u>	<u>5</u>	<u>FACW</u>	4. _____	_____	_____
5. <u>LOLISUM MULTIFLORUM</u>	<u>25</u>	<u>FAC</u>	5. _____	_____	_____
6. <u>POLYPOGON MONSPERENSIS</u>	<u>20</u>	<u>FACW</u>	6. _____	_____	_____
7. <u>SORRA ?</u>	<u>5</u>	_____	7. _____	_____	_____

100 % dominant species that are OBL, FACW or FAC (except FAC-). 0 % bare ground

Remarks:

HYDROLOGY

Field observations: Depth of surface water: _____ (in.) Depth to free water in pit: _____ (in.) Depth to saturated soil: _____ (in.) Approximate slope: Within 100-year floodplain? <input type="checkbox"/> Yes <input type="checkbox"/> No Below OHWM or High Tide Line? <input type="checkbox"/> Yes <input type="checkbox"/> No	Wetland hydrology indicators: <u>None</u> <input type="checkbox"/> Inundated <input type="checkbox"/> Water marks <input type="checkbox"/> Sediment deposits <input type="checkbox"/> Suppressed vegetation <input type="checkbox"/> Matting (algal or other) <input type="checkbox"/> Other (explain in remarks) <input type="checkbox"/> Saturated in upper 12" <input type="checkbox"/> Organic duff layer <input type="checkbox"/> Drainage patterns in wetlands <input type="checkbox"/> Oxidized root channels
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Physiographic position of site/Remarks: IN FIELD SOUTH OF #20

SOILS

Map unit name: _____ Taxonomy (subgroup): _____	Soil series permeability (from NRCS survey): _____ Field observations confirm mapped soil series? <input type="checkbox"/> Yes <input type="checkbox"/> No
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Depth (inches)	Horizon	Matrix Color (moist)	Redoximorphic Colors (moist)	Abundance/Contrast	Additional observations (texture, concretions, porosity, etc.)
<u>0-8</u>	_____	<u>10YR4/2</u>	<u>10YR4/6</u>	<u><1% RB/205</u>	_____
_____	_____	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____

Hydric Soil Indicators:

<input type="checkbox"/> Abundant rhizospheres	<input type="checkbox"/> Gleying	<input type="checkbox"/> Probable aquic moisture regime
<input type="checkbox"/> Reducing conditions	<input type="checkbox"/> Non-mollic, low-chroma colors	<input type="checkbox"/> Concretions
<input type="checkbox"/> High organic content in surface layer	<input type="checkbox"/> Iron or Mn mottles	<input type="checkbox"/> Listed on county hydric soils list
<input type="checkbox"/> Depleted mottles or matrix	<input type="checkbox"/> Sulfidic odor	<input type="checkbox"/> Other (explain in remarks)

Remarks:

WETLAND DETERMINATION

Hydrophytic vegetation present <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No Hydric soils present <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No Wetland hydrology present <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	Is this sampling point within a wetland? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
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Remarks:

DATA FORM: ROUTINE WETLAND DETERMINATION (1987 COE Wetlands Delineation Manual)

Project/Site: Lagoon Valley Applicant: Triad Homes Investigator(s): S. Lohmann, C. Bouril LSA Associates, Inc., 157 Park Place, Point Richmond, CA 94801 Have vegetation, soils, or hydrology been disturbed? <input checked="" type="radio"/> Yes <input type="radio"/> No Is the area a potential Problem Area? <input type="radio"/> Yes <input checked="" type="radio"/> No	Sample Site No.: <u>22</u> Date: <u>July 17, 2003</u> Location: Vacaville County: Solano State: CA
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VEGETATION (Note those species observed to have morphological adaptations to wetlands with an asterisk "**")

Dominant Plant Species	% Cover	Indicator	Associated Plant Species	% Cover	Indicator
1. <u>CENTAUREA SOLSTITIALIS</u>	<u>55</u>	<u>UPL</u>	1. _____	_____	_____
2. <u>LOLIUM MUCIFLORUM</u>	<u>30</u>	<u>FAC</u>	2. _____	_____	_____
3. <u>TOXICARUM CAPIT-MEDUSAE</u>	<u>5</u>	<u>UPL</u>	3. _____	_____	_____
4. <u>VOLPIA SP.</u>	<u>5</u>	_____	4. _____	_____	_____
5. _____	_____	_____	5. _____	_____	_____
6. _____	_____	_____	6. _____	_____	_____
7. _____	_____	_____	7. _____	_____	_____

50 % dominant species that are OBL, FACW or FAC (except FAC-). _____ % bare ground

Remarks:

HYDROLOGY

Field observations: Depth of surface water: _____ (in.) Depth to free water in pit: _____ (in.) Depth to saturated soil: _____ (in.) Approximate slope: <u>< 5%</u> Within 100-year floodplain? Yes <input checked="" type="radio"/> No <input type="radio"/> Below OHWM or High Tide Line? Yes <input checked="" type="radio"/> No <input type="radio"/>	Wetland hydrology indicators: <u>NONE</u> <input type="checkbox"/> Inundated <input type="checkbox"/> Water marks <input type="checkbox"/> Sediment deposits <input type="checkbox"/> Suppressed vegetation <input type="checkbox"/> Matting (algal or other) <input type="checkbox"/> Other (explain in remarks) <input type="checkbox"/> Saturated in upper 12" <input type="checkbox"/> Organic duff layer <input type="checkbox"/> Drainage patterns in wetlands <input type="checkbox"/> Oxidized root channels
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Physiographic position of site/Remarks: SOUTH EDGE OF SUBS 16' INTO 4ST SOUTH OF SP 34

SOILS

Map unit name: _____	Soil series permeability (from NRCS survey): _____	Field observations confirm mapped soil series? Yes <input type="checkbox"/> No <input type="checkbox"/>			
Taxonomy (subgroup): _____					
Depth (inches)	Horizon	Matrix Color (moist)	Redoximorphic Colors (moist)	Abundance/Contrast	Additional observations (texture, concretions, porosity, etc.)
<u>0-8"</u>	_____	<u>10YR 7/1, 3/1</u>	_____	_____	_____
_____	_____	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____

Hydric Soil Indicators: NONE

<input type="checkbox"/> Abundant rhizospheres	<input type="checkbox"/> Gleying	<input type="checkbox"/> Probable aquic moisture regime
<input type="checkbox"/> Reducing conditions	<input type="checkbox"/> Non-mollic, low-chroma colors	<input type="checkbox"/> Concretions
<input type="checkbox"/> High organic content in surface layer	<input type="checkbox"/> Iron or Mn mottles	<input type="checkbox"/> Listed on county hydric soils list
<input type="checkbox"/> Depleted mottles or matrix	<input type="checkbox"/> Sulfidic odor	<input type="checkbox"/> Other (explain in remarks)

Remarks:

WETLAND DETERMINATION

Hydrophytic vegetation present Yes <input type="radio"/> No <input checked="" type="radio"/>	Is this sampling point within a wetland? Yes <input type="radio"/> No <input checked="" type="radio"/>
Hydric soils present Yes <input type="radio"/> No <input checked="" type="radio"/>	
Wetland hydrology present Yes <input type="radio"/> No <input checked="" type="radio"/>	

Remarks:

DATA FORM: ROUTINE WETLAND DETERMINATION (1987 COE Wetlands Delineation Manual)

Project/Site: Lagoon Valley Applicant: Triad Homes Investigator(s): S. Lohmann, C. Bouril LSA Associates, Inc., 157 Park Place, Point Richmond, CA 94801 Have vegetation, soils, or hydrology been disturbed? <input checked="" type="radio"/> Yes <input type="radio"/> No Is the area a potential Problem Area? <input checked="" type="radio"/> Yes <input type="radio"/> No	Sample Site No.: <u>23</u> Date: <u>Sat, July 19, 2003</u> Location: Vacaville County: Solano State: CA
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VEGETATION (Note those species observed to have morphological adaptations to wetlands with an asterisk "**")

Dominant Plant Species	% Cover	Indicator	Associated Plant Species	% Cover	Indicator
1. <u>JUNCUS MEXICANUS</u>	<u>30</u>	<u>FACW</u>	1. _____	_____	_____
2. <u>LOLUM MULTIFLORUM</u>	<u>30</u>	<u>FAC</u>	2. _____	_____	_____
3. <u>HERDIUM WATINUM</u>	<u>26</u>	<u>FAC</u>	3. _____	_____	_____
4. <u>PROS DIANDROS</u>	<u>10</u>	<u>UPL</u>	4. _____	_____	_____
5. <u>ROMEX PUCHER</u>	<u>2</u>	<u>FAC</u>	5. _____	_____	_____
6. <u>CARDUS PRINOCEPHALUS</u>	<u>2</u>	<u>UPL</u>	6. _____	_____	_____
7. _____	_____	_____	7. _____	_____	_____

100 % dominant species that are OBL, FACW or FAC (except FAC-). 0 % bare ground

Remarks:

HYDROLOGY

Field observations: Depth of surface water: _____ (in.) Depth to free water in pit: _____ (in.) Depth to saturated soil: _____ (in.) Approximate slope: <u>4%</u> Within 100-year floodplain? Yes <input type="radio"/> No <input checked="" type="radio"/> Below OHWM or High Tide Line? Yes <input type="radio"/> No <input checked="" type="radio"/>	Wetland hydrology indicators: <u>NONE</u> <input type="checkbox"/> Inundated <input type="checkbox"/> Water marks <input type="checkbox"/> Sediment deposits <input type="checkbox"/> Suppressed vegetation <input type="checkbox"/> Matting (algal or other) <input type="checkbox"/> Other (explain in remarks) <input type="checkbox"/> Saturated in upper 12" <input type="checkbox"/> Organic duff layer <input type="checkbox"/> Drainage patterns in wetlands <input type="checkbox"/> Oxidized root channels
Physiographic position of site/Remarks: <u>FLAT W/ JUNE NEAR CONFLUENCE OF 3 CHANNELS</u> 	

SOILS

Map unit name: _____ Taxonomy (subgroup): _____	Soil series permeability (from NRCS survey): _____ Field observations confirm mapped soil series? Yes <input type="checkbox"/> No <input type="checkbox"/>				
Depth (inches) <u>0-8</u>	Horizon _____	Matrix Color (moist) <u>10YR 4/2+</u> <u>10YR 3/2</u>	Redoximorphic Colors (moist) _____	Abundance/Contrast _____	Additional observations (texture, concretions, porosity, etc.) _____
Hydric Soil Indicators: <input type="checkbox"/> Abundant rhizospheres <input type="checkbox"/> Reducing conditions <input type="checkbox"/> High organic content in surface layer <input type="checkbox"/> Depleted mottles or matrix <input type="checkbox"/> Gleying <input type="checkbox"/> Non-mollic, low-chroma colors <input type="checkbox"/> Iron or Mn mottles <input type="checkbox"/> Sulfidic odor <input type="checkbox"/> Probable aquic moisture regime <input type="checkbox"/> Concretions <input type="checkbox"/> Listed on county hydric soils list <input type="checkbox"/> Other (explain in remarks)					
Remarks: <u>DISTURBED, SOME GRASS</u>					

WETLAND DETERMINATION

Hydrophytic vegetation present <input checked="" type="radio"/> Yes <input type="radio"/> No Hydric soils present Yes <input checked="" type="radio"/> No <input type="radio"/> Wetland hydrology present Yes <input checked="" type="radio"/> No <input type="radio"/>	Is this sampling point within a wetland? Yes <input type="radio"/> No <input checked="" type="radio"/>
Remarks:	