Riparian wetlands are found within Lewiston 1 and Dark Gulch sites. Riparian wetlands are characterized by a complex of open to dense emergent herbaceous and woody riparian vegetative growth. Herbaceous plant species that almost always occur (>99% probability; OBL) in wetlands and herbaceous plant species that usually occur (>67% to 99% probability; FACW) in wetlands were observed within riparian wetland features. These plant species include torrent sedge (*Carex nudata* – FACW+), tall flatsedge (*Cyperus eragrostis* – FACW), least spikerush (*Eleocharis acicularis* – OBL), smooth scouring rush (*Equisetum laevigatum* – FACW), and reed canary grass (*Phalaris arundinaceae* – OBL).

Fresh Emergent Wetland. Fresh emergent wetlands were identified at the Lewiston 4 and Dark Gulch sites. Fresh emergent wetlands are characterized by erect, rooted, herbaceous hydrophytes, excluding mosses and lichens. Vegetation, typically perennial, is present for most of the growing season in most years (Cowardin et al. 1979). Fresh emergent wetlands found at these two sites are formed in three different ways: 1) from inundation of lands surrounding the open-water pond; 2) from depressions between tailings piles; and 3) from a depression within the Trinity River floodplain (i.e., ponding occurs within the low point, allowing emergent vegetation to become established). Fresh emergent wetland criteria were met by the presence of hydrophytic vegetation, hydric soils, and wetland hydrology, including standing surface water. Hydrologic influences on these features include the Trinity River, precipitation, and runoff from adjacent areas. The dominant plant species include narrow-leaf cattail (*Typha angustifolia* – OBL), Himalyan blackberry (*Rubus discolor* – FACW*), perennial ryegrass (*Lolium perenne* – FAC*), and narrow-leaved willow (*Salix exigua* – OBL).

Intermittent Pool. Intermittent pools consist of shallow depressions that exhibit seasonal inundation. This jurisdictional type is a non-wetland water of the United States. It seasonally supports vegetation adapted to surviving in seasonally saturated and/or inundated conditions. The intermittent pool at the Dark Gulch site appears to be an artifact of past mining activities.

Riverine (Perennial Stream). Inclusion of the Trinity River within each of the five sites is the primary factor influencing wetland features associated with each ESL. Riverine (perennial stream) habitat, identified as the river itself, exhibits a distinct bed and bank feature (i.e., scouring), as well as continuous inundation, watermarks, drift lines, and sediment deposits.

Intermittent Creek. Intermittent creek features include natural drainages that convey waters intermittently during the late fall, winter, and spring months, but are usually dry during the summer and early fall months. These features exhibit indicators of scouring and deposition of soil material. Upland plant species often colonize these features during the summer when no water is present. Water sources may include direct precipitation, runoff from upstream channel reaches, and seepage from surrounding soils (groundwater). Intermittent creeks are non-wetland waters of the United States or "other waters." Intermittent creeks were identified at the Lewiston 1, Lewiston 3, and Dark Gulch sites.

Ephemeral Creek. Ephemeral creek features include natural drainages that convey water during and briefly after storms. Groundwater discharge does not constitute a

portion of the flow. Ephemeral creeks are non-wetland waters of the United States or "other waters." Ephemeral creek features were identified at the Lewiston 1 and Dark Gulch sites.

Open-Water. This feature consists of a deep-water area that exhibits perennial inundation. This jurisdictional type is a non-wetland water of the United States or "other waters." Three open-water features were found at the Dark Gulch site.

Table 2. Summary of Corps Jurisdictional Waters within the Lewiston 1–4 and Dark Gulch ESLs, Trinity River Mechanical Channel Rehabilitation, Trinity County, California.

Wetland Type	Total Acreage					
	Lewiston 1	**Lewiston 2**	**Lewiston 3**	**Lewiston 4**	**Dark Gulch**	
Wetlands						
Riparian Wetland	2.65	--	--	--	1.14	3.79
Fresh Emergent Wetland	--	--	--	0.07	0.58	0.65
Intermittent Pool	--	--	--	--	0.06	0.06
Total Wetlands	**2.65**	**0.00**	**0.00**	**0.07**	**1.78**	**4.50**
Other Waters						
Trinity River (Riverine)	25.61	5.58	12.74	11.08	52.60	107.61
Intermittent Creek	0.01	--	0.01	--	0.01	0.03
Open Water	--	--	--	--	0.40	0.40
Ephemeral Creek	0.004	--	--	--	0.003	0.007
Total Other Waters	**25.62**	**5.58**	**12.75**	**11.08**	**53.01**	**108.04**
Total Jurisdictional Waters	**28.27**	**5.58**	**12.75**	**11.15**	**54.79**	**112.54**

c) Discussion of Results: Jurisdictional waters of the United States occurring within the ESLs include nine riparian wetlands, six fresh emergent wetlands, one intermittent pool, one perennial stream, three intermittent creeks, three ephemeral creeks, and three open water ponds. As shown in Table 2, these features occupy a total of 112.54 acres and are subject to Corps jurisdiction. No discharge of dredged or fill material into waters of the United States is permitted unless authorized under a Corps Nationwide Permit or Individual Permit.

This delineation of waters of the United States is subject to verification by the Corps. NSR advises all parties to treat the information contained herein as preliminary until the Corps provides written verification of the boundaries of their jurisdiction.

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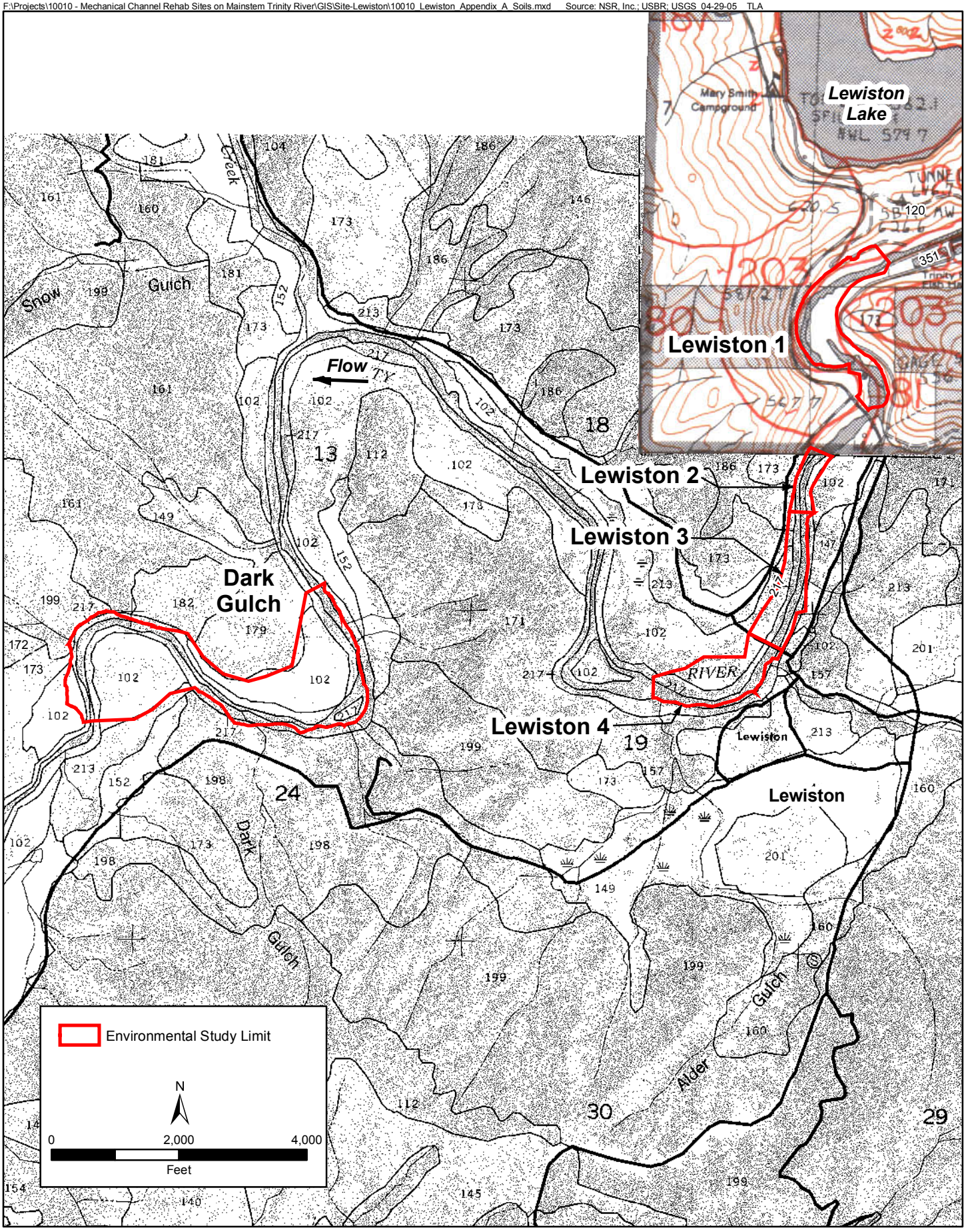
APPENDIX A

Soil Map Unit Figure



Appendix A. Soil Map Units

APPENDIX B

Data Sheets

DATA FORM: ROUTINE WETLAND DETERMINATION | Comm. ID: Ephemeral Drainage | Plot ID: DP 1

Project/Site: Lewiston 1 | Date: 11 April 2005
Applicant/Owner: BOR/USFS | County: Trinity
Investigator(s): C. Boggs | State: California
Do normal circumstances exist on the site? (Y) or N Explain: Photo 16
Is the site significantly disturbed (atypical situation)? Y or (N)
Is the area a potential problem area? Y or (N)

VEGETATION

Dominant Plant Species	Cover	Stratum	Indicator
1. Boulder/Cobble/Gravel	60	N/A	N/A
2. Cirsium vulgare	10	H	FACU
3. Poa bulbosa	10	H	NL
4. Torilis arvensis	10	H	NL
5. Avena fatua	10	H	NL
6.			
7.			
8.			
9.			
10.			

Percent of dominant species that are OBL, FACW or FAC N/A

Remarks: Drainage is mostly devoid of vegetation.

HYDROLOGY

- [x] Recorded Data (Describe in Remarks)
  - [ ] stream, lake, or tide gauge
  - [x] aerial photographs
  - [ ] other
- [ ] No Recorded data available

Field Observation:
Depth of Surface Water: 0-1/2 (in.)
Depth to Free Water in Pit: N/A (in.)
Depth to Saturated Soil: N/A (in.)

Wetland Hydrology Indicators

Primary Indicators	Secondary Indicators
[x] inundated	[ ] oxidized root channels in upper 12"
[x] saturated in upper 12"	[ ] water-stained leaves
[x] water marks	[ ] local soil survey data
[x] drift lines	[ ] FAC-neutral test
[x] sediment deposits	[ ] other (explain in remarks)
[x] drainage patterns in wetlands	

Remarks: Sufficient wetland hydrology indicators

SOILS

Map Unit Name (Series and Phase): 351-XEROFLUVENTS - Riverwash Assoc. 0% slope | Drainage Class:
Taxonomy (Subgroup): | Field Observations Confirm Mapped Type? Y N UNK
Hydric Status on NRCS Field Office List:

Depth	Horizon	Matrix Color	Mottle Colors	Mottle Abundance/contrast	Texture, Concretions, Structure, Etc.

Remarks: No pitting. Substrate too rocky.

Hydric Soil Indicators:		[ ]	Positive alpha-alpha dipyridyl test
[ ]	Histosol	[ ]	Gleyed or low-chroma colors
[ ]	Histic Epipedon	[ ]	High organic content in surface layer in sandy soil
[ ]	Sulfidic odor	[ ]	Organic streaking in sandy soils
[ ]	Aquic moisture regime	[ ]	Listed on local hydric soils list
[ ]	Reducing conditions	[ ]	Listed on national hydric soils list
[ ]	Concretions	[x]	Other Frequently flooded

WETLAND DETERMINATION

Hydrophytic vegetation present? Y or (N) Wetland Hydrology Present? (Y) or N Hydric Soils Present? (Y) or N
Is this point within a wetland? Y or (N) Is this point within an "Other waters of the U.S."? (Y) or N (If yes, complete bottom of form)

Remarks: Two culverts drain surrounding uplands. Water flowing within 10-foot reach from culverts north. No flow in remaining reach of ephemeral drainage. Water goes subsurface.

ACOE JURISDICTION

ACOE Jurisdiction:
[ ] Adjacent to Waters [ ] Tributary to Waters [ ] Isolated (with Interstate Commerce) [x] Isolated (non-jurisdictional)
Explain:

EVALUATION OF FEATURES DESIGNATED "OTHER WATERS OF THE UNITED STATES"

Indicators:
[x] Defined Bed and Bank [x] Scour [x] Ordinary High Water Mark Mapped

Feature Designation:
[ ] Perennial [ ] Intermittent [x] Ephemeral [ ] Blue-line on U.S.G.S. Topographic Map
[ ] Natural Drainage [x] Artificial Drainage [ ] Navigable Water

Remarks: Feature is approximately 2' wide and has no surface connection to the Trinity River.

DATA FORM: ROUTINE WETLAND DETERMINATION | Comm. ID: Upland | Plot ID: DP2

Project/Site: Lewiston 1 | Date: 11 April 2005
Applicant/Owner: BOR/USFS | County: Trinity
Investigator(s): C. Boggs | State: California

Do normal circumstances exist on the site? (Y) or N Explain: T40S R6W S16
Is the site significantly disturbed (atypical situation)? Y or (N)
Is the area a potential problem area? Y or (N)

VEGETATION

Dominant Plant Species	Cover	Stratum	Indicator
1. Rosa californica	5	S	FACt
2. Poa bulbosa	45	H	NL
3. Lotus micranthus	25	H	NL
4. Grindelia squarrosa	10	H	FACU
5. Trifolium hirtum	10	H	NL
6. Cobble/gravel	5	N/A	N/A
7.			
8.			
9.			
10.			

Percent of dominant species that are OBL, FACW or FAC 0/2 = 0%

Remarks: Insufficient hydrophytic vegetation.

HYDROLOGY

- (X) Recorded Data (Describe in Remarks)
  - ☐ stream, lake, or tide gauge
  - (X) aerial photographs
  - ☐ other
- ☐ No Recorded data available

Field Observation:
Depth of Surface Water: None (in.)
Depth to Free Water in Pit: N/A (in.)
Depth to Saturated Soil: N/A (in.)

Wetland Hydrology Indicators

Primary Indicators	Secondary Indicators
☐ inundated	☐ oxidized root channels in upper 12"
☐ saturated in upper 12"	☐ water-stained leaves
☐ water marks	☐ local soil survey data
☐ drift lines	☐ FAC-neutral test
☐ sediment deposits	☐ other (explain in remarks)
☐ drainage patterns in wetlands	

Remarks: No wetland hydrology indicators.

SOILS

Map Unit Name (Series and Phase): 351 - Xerofluvents - River Wash Assoc, 0% Slope
Taxonomy (Subgroup):
Hydric Status on NRCS Field Office List:
Drainage Class:
Field Observations Confirm Mapped Type? Y N UNK

Depth	Horizon	Matrix Color	Mottle Colors	Mottle Abundance/contrast	Texture, Concretions, Structure, Etc.

Hydric Soil Indicators:

- ☐ Histosol
- ☐ Histic Epipedon
- ☐ Sulfidic odor
- ☐ Aquic moisture regime
- ☐ Reducing conditions
- ☐ Concretions
- ☐ Positive alpha-alpha dipyridyl test
- ☐ Gleyed or low-chroma colors
- ☐ High organic content in surface layer in sandy soil
- ☐ Organic streaking in sandy soils
- ☐ Listed on local hydric soils list
- ☐ Listed on national hydric soils list
- ☐ Other

Remarks: No pit dug. Too rocky. No hydric soils indicators.

WETLAND DETERMINATION

Hydrophytic vegetation present? Y or (N) Wetland Hydrology Present? Y or (N) Hydric Soils Present? Y or (N)
Is this point within a wetland? Y or (N) Is this point within an "Other waters of the U.S."? Y or (N) (If yes, complete bottom of form)

Remarks: Upland data point paired to ephemeral drainage (DP 1).

ACOE JURISDICTION

ACOE Jurisdiction:
☐ Adjacent to Waters ☐ Tributary to Waters ☐ Isolated (with Interstate Commerce) ☐ Isolated (non-jurisdictional)
Explain:

EVALUATION OF FEATURES DESIGNATED "OTHER WATERS OF THE UNITED STATES"

Indicators:
☐ Defined Bed and Bank ☐ Scour ☐ Ordinary High Water Mark Mapped

Feature Designation:
☐ Perennial ☐ Intermittent ☐ Ephemeral ☐ Blue-line on U.S.G.S. Topographic Map
☐ Natural Drainage ☐ Artificial Drainage ☐ Navigable Water

Remarks:

DATA FORM: ROUTINE WETLAND DETERMINATION | Comm. ID: Perennial Stream | Plot ID: DP 3

Project/Site: Lewiston 1 | Date: 11 April 2005
Applicant/Owner: BOR / USFS | County: Trinity
Investigator(s): C. Boggs | State: California
Do normal circumstances exist on the site? (Y) or N Explain: Photo 17
Is the site significantly disturbed (atypical situation)? Y or (N)
Is the area a potential problem area? Y or (N)

VEGETATION

Dominant Plant Species	Cover	Stratum	Indicator
1. Flowing water	60	N/A	N/A
2. Cobble/gravel	15	N/A	N/A
3. Alnus rhombifolia	10	T	OBL
4. Salix exigua	5	S	OBL
5. Rubus discolor	10	S	FACW+
6.			
7.			
8.			
9.			
10.			

Percent of dominant species that are OBL, FACW or FAC: N/A

Remarks: Perennial stream is mostly devoid of veg., except along banks and on some gravel bars.

HYDROLOGY

- [x] Recorded Data (Describe in Remarks)
  - [ ] stream, lake, or tide gauge
  - [x] aerial photographs
  - [ ] other
- [ ] No Recorded data available

Field Observation:
Depth of Surface Water: >12 (in.)
Depth to Free Water in Pit: N/A (in.)
Depth to Saturated Soil: N/A (in.)

Wetland Hydrology Indicators

Primary Indicators	Secondary Indicators
[x] inundated	[ ] oxidized root channels in upper 12"
[x] saturated in upper 12"	[ ] water-stained leaves
[x] water marks	[x] local soil survey data
[x] drift lines	[ ] FAC-neutral test
[x] sediment deposits	[ ] other (explain in remarks)
[x] drainage patterns in wetlands	

Remarks: Sufficient wetland hydrology indicators.

SOILS

Map Unit Name (Series and Phase): 351-Xerofluvents - River Wash Assoc. 0% slope
Taxonomy (Subgroup):
Hydric Status on NRCS Field Office List: Hydric
Drainage Class:
Field Observations Confirm Mapped Type? Y N UNK

Depth	Horizon	Matrix Color	Mottle Colors	Mottle Abundance/contrast	Texture, Concretions, Structure, Etc.

Remarks: Frequently flooded (perennial flow), Sufficient hydric soils indicators.

Hydric Soil Indicators:

- [ ] Histosol
- [ ] Histic Epipedon
- [ ] Sulfidic odor
- [ ] Aquic moisture regime
- [ ] Reducing conditions
- [ ] Concretions
- [ ] Positive alpha-alpha dipyridyl test
- [ ] Gleyed or low-chroma colors
- [ ] High organic content in surface layer in sandy soil
- [ ] Organic streaking in sandy soils
- [x] Listed on local hydric soils list
- [ ] Listed on national hydric soils list
- [x] Other: Frequently flooded

WETLAND DETERMINATION

Hydrophytic vegetation present? Y or (N) Wetland Hydrology Present? (Y) or N Hydric Soils Present? (Y) or N
Is this point within a wetland? Y or (N) Is this point within an "Other waters of the U.S."? (Y) or N (if yes, complete bottom of form)

Remarks: Trinity River is a perennial stream.

ACOE JURISDICTION

ACOE Jurisdiction:
☐ Adjacent to Waters ☐ Tributary to Waters ☐ Isolated (with Interstate Commerce) ☐ Isolated (non-jurisdictional)
Explain: See below

EVALUATION OF FEATURES DESIGNATED "OTHER WATERS OF THE UNITED STATES"

Indicators:
[x] Defined Bed and Bank [x] Scour [x] Ordinary High Water Mark Mapped

Feature Designation:
[x] Perennial ☐ Intermittent ☐ Ephemeral [x] Blue-line on U.S.G.S. Topographic Map
[x] Natural Drainage ☐ Artificial Drainage [x] Navigable Water

Remarks:

DATA FORM: ROUTINE WETLAND DETERMINATION | Comm. ID: Upland | Plot ID: DP4

Project/Site: Lewiston 1 | Date: 11 April 2005
Applicant/Owner: BOR/USFS | County: Trinity
Investigator(s): J.C. Boggs | State: California
Do normal circumstances exist on the site? (Y) or N Explain: Photo 17
Is the site significantly disturbed (atypical situation)? Y or (N)
Is the area a potential problem area? Y or (N)

VEGETATION

Dominant Plant Species	Cover	Stratum	Indicator
1. Pinus ponderosa	10	T	FAC
2. Salix exigua	10	S	OBL
3. Rubus discolor	25	S	FACW+
4. Rosa californica	10	S	FAC+
5. Torilis arvensis	20	H	NL
6. Poa bulbosa	25	H	NL
7.			
8.			
9.			
10.			

Percent of dominant species that are OBL, FACW or FAC 1/3 = 33%

Remarks: Insufficient hydrophytic vegetation.

HYDROLOGY

- [x] Recorded Data (Describe in Remarks)
  - [ ] stream, lake, or tide gauge
  - [x] aerial photographs
  - [ ] other
- [ ] No Recorded data available

Field Observation:
Depth of Surface Water: None (in.)
Depth to Free Water in Pit: N/A (in.)
Depth to Saturated Soil: N/A (in.)

Wetland Hydrology Indicators

Primary Indicators	Secondary Indicators
[ ] inundated	[ ] oxidized root channels in upper 12"
[ ] saturated in upper 12"	[ ] water-stained leaves
[ ] water marks	[x] local soil survey data
[ ] drift lines	[ ] FAC-neutral test
[ ] sediment deposits	[ ] other (explain in remarks)
[ ] drainage patterns in wetlands	

Remarks: Insufficient wetland hydrology indicators.

SOILS

Map Unit Name (Series and Phase): 351 - Xerofluvents - River Wash Assoc, 0% Slope
Taxonomy (Subgroup):
Hydric Status on NRCS Field Office List:
Drainage Class:
Field Observations Confirm Mapped Type? Y N UNK

Depth	Horizon	Matrix Color	Mottle Colors	Mottle Abundance/contrast	Texture, Concretions, Structure, Etc.

Remarks: No pit dug. Too rocky. Sufficient hydric soil indicators.

Hydric Soil Indicators:			
[ ]	Histosol	[ ]	Positive alpha-alpha dipyridyl test
[ ]	Histic Epipedon	[ ]	Gleyed or low-chroma colors
[ ]	Sulfidic odor	[ ]	High organic content in surface layer in sandy soil
[ ]	Aquic moisture regime	[ ]	Organic streaking in sandy soils
[ ]	Reducing conditions	[x]	Listed on local hydric soils list
[ ]	Concretions	[ ]	Listed on national hydric soils list
		[ ]	Other

WETLAND DETERMINATION

Hydrophytic vegetation present? Y or (N) Wetland Hydrology Present? Y or (N) Hydric Soils Present? (Y) or N
Is this point within a wetland? Y or (N) Is this point within an "Other waters of the U.S."? Y or (N) (If yes, complete bottom of form)

Remarks: Upland data point paired to perennial stream (DP3).

ACOE JURISDICTION

ACOE Jurisdiction:
[ ] Adjacent to Waters [ ] Tributary to Waters [ ] Isolated (with Interstate Commerce) [ ] Isolated (non-jurisdictional)
Explain:

EVALUATION OF FEATURES DESIGNATED "OTHER WATERS OF THE UNITED STATES"

Indicators:
[ ] Defined Bed and Bank [ ] Scour [ ] Ordinary High Water Mark Mapped

Feature Designation:
[ ] Perennial [ ] Intermittent [ ] Ephemeral [ ] Blue-line on U.S.G.S. Topographic Map
[ ] Natural Drainage [ ] Artificial Drainage [ ] Navigable Water
Remarks:

DATA FORM: ROUTINE WETLAND DETERMINATION | Comm. ID: Intermittent Drainage | Plot ID: DP 5

Project/Site: Lewiston 1 | Date: 11 April 2005
Applicant/Owner: BOR/USFS | County: Trinity
Investigator(s): C. Boggs | State: California

Do normal circumstances exist on the site? (Y) or N Explain: Photo 18
Is the site significantly disturbed (atypical situation)? Y or (N)
Is the area a potential problem area? Y or (N)

VEGETATION

Dominant Plant Species	Cover	Stratum	Indicator
1.			
2.			
3.			
4.			
5.			
6.			
7.			
8.			
9.			
10.			

Percent of dominant species that are OBL, FACW or FAC N/A

Remarks: Intermittent drainage is devoid of vegetation.

HYDROLOGY

- [x] Recorded Data (Describe in Remarks)
  - [ ] stream, lake, or tide gauge
  - [x] aerial photographs
  - [ ] other _____
- [ ] No Recorded data available

Field Observation:

Depth of Surface Water: _____ (in.)
Depth to Free Water in Pit: N/A (in.)
Depth to Saturated Soil: N/A (in.)

Wetland Hydrology Indicators

Primary Indicators	Secondary Indicators
[ ] Inundated	[ ] oxidized root channels in upper 12"
[x] saturated in upper 12"	[ ] water-stained leaves
[ ] water marks	[ ] local soil survey data
[x] drift lines	[ ] FAC-neutral test
[x] sediment deposits	[ ] other (explain in remarks)
[x] drainage patterns in wetlands	

Remarks: Sufficient wetland hydrology indicators.

SOILS

Map Unit Name (Series and Phase): 351 - Xerofluvents - River Wash Assoc. 0 to 5%
Taxonomy (Subgroup): _____
Hydric Status on NRCS Field Office List: _____

Drainage Class: _____
Field Observations Confirm Mapped Type? Y N UNK

Depth	Horizon	Matrix Color	Mottle Colors	Mottle Abundance/contrast	Texture, Concretions, Structure, Etc.

Remarks: No pit dug. Too rocky.

Hydric Soil Indicators:

- [ ] Histosol
- [ ] Histic Epipedon
- [ ] Sulfidic odor
- [ ] Aquic moisture regime
- [ ] Reducing conditions
- [ ] Concretions
- [ ] Positive alpha-alpha dipyridyl test
- [ ] Gleyed or low-chroma colors
- [ ] High organic content in surface layer in sandy soil
- [ ] Organic streaking in sandy soils
- [ ] Listed on local hydric soils list
- [ ] Listed on national hydric soils list
- [x] Other Frequently flooded

WETLAND DETERMINATION

Hydrophytic vegetation present? Y or (N) Wetland Hydrology Present? (Y) or N Hydric Soils Present? (Y) or N
Is this point within a wetland? Y or (N) Is this point within an "Other waters of the U.S."? (Y) or N (If yes, complete bottom of form)

Remarks: Feature is ~ 2' wide near outflow/culvert and 4' wide for remaining reach. Water is currently flowing.

ACOE JURISDICTION

ACOE Jurisdiction:
[ ] Adjacent to Waters [x] Tributary to Waters [ ] Isolated (with Interstate Commerce) [ ] Isolated (non-jurisdictional)
Explain: _____

EVALUATION OF FEATURES DESIGNATED "OTHER WATERS OF THE UNITED STATES"

Indicators:
[x] Defined Bed and Bank [x] Scour [x] Ordinary High Water Mark Mapped

Feature Designation:
[ ] Perennial [x] Intermittent [ ] Ephemeral [ ] Blue-line on U.S.G.S. Topographic Map
[ ] Natural Drainage [x] Artificial Drainage [ ] Navigable Water

Remarks: Outside of ESL and across road is a natural drainage. Road construction has altered natural flow.

DATA FORM: ROUTINE WETLAND DETERMINATION | Comm. ID: Upland | Plot ID: DP 6

Project/Site: Lewiston 2 | Date: 11 April 2005
Applicant/Owner: BOR/USFS | County: Trinity
Investigator(s): [illegible] w/ C. Boggs | State: California

Do normal circumstances exist on the site? (Y) or N Explain: Photo 18
Is the site significantly disturbed (atypical situation)? Y or (N)
Is the area a potential problem area? Y or (N)

VEGETATION

Dominant Plant Species	Cover	Stratum	Indicator
1. Ceanothus cuneatus	75	S	NL
2. Grindelia squarrosa	5	H	FACU
3. Ranunculus occidentalis	5	H	FACW
4. Poa bulbosa	5	H	NL
5. Linanthus ciliatus	5	H	NL
6. Taeniatherum caput-medusae	5	H	NL
7.			
8.			
9.			
10.			

Percent of dominant species that are OBL, FACW or FAC 0/6 = 0%

Remarks: Insufficient hydrophytic vegetation.

HYDROLOGY

- [x] Recorded Data (Describe in Remarks)
  - [ ] stream, lake, or tide gauge
  - [x] aerial photographs
  - [ ] other
- [ ] No Recorded data available

Field Observation:
Depth of Surface Water: None (in.)
Depth to Free Water in Pit: None (in.)
Depth to Saturated Soil: 6 (in.)

Wetland Hydrology Indicators

Primary Indicators	Secondary Indicators
[ ] Inundated	[ ] oxidized root channels in upper 12"
[x] saturated in upper 12"	[ ] water-stained leaves
[ ] water marks	[ ] local soil survey data
[ ] drift lines	[ ] FAC-neutral test
[ ] sediment deposits	[ ] other (explain in remarks)
[ ] drainage patterns in wetlands	

Remarks: Sufficient wetland hydrology indicator.

SOILS

Map Unit Name (Series and Phase): 351 - Xerofluvents - River wash Assoc, 0% Slope
Taxonomy (Subgroup):
Hydric Status on NRCS Field Office List:
Drainage Class:
Field Observations Confirm Mapped Type? Y N UNK

Depth	Horizon	Matrix Color	Mottle Colors	Mottle Abundance/contrast	Texture, Concretions, Structure, Etc.
0-4"	—	7.5YR 4/6	N/A	N/A	sandy loam
4-12"	—	2.5Y 4/1	N/A	N/A	sandy gravelly loam

Remarks: Sufficient hydric soil indicator.

Hydric Soil Indicators:
- [ ] Histosol
- [ ] Histic Epipedon
- [ ] Sulfidic odor
- [ ] Aquic moisture regime
- [ ] Reducing conditions
- [ ] Concretions
- [ ] Positive alpha-alpha dipyridyl test
- [x] Gleyed or low-chroma colors
- [ ] High organic content in surface layer in sandy soil
- [ ] Organic streaking in sandy soils
- [ ] Listed on local hydric soils list
- [ ] Listed on national hydric soils list
- [ ] Other

WETLAND DETERMINATION

Hydrophytic vegetation present? Y or (N) Wetland Hydrology Present? (Y) or N Hydric Soils Present? (Y) or N
Is this point within a wetland? Y or (N) Is this point within an "Other waters of the U.S."? Y or (N) (if yes, complete bottom of form)

Remarks: Upland data point paired to intermittent drainage.

ACOE JURISDICTION

ACOE Jurisdiction:
- [ ] Adjacent to Waters
- [ ] Tributary to Waters
- [ ] Isolated (with Interstate Commerce)
- [ ] Isolated (non-jurisdictional)

Explain:

EVALUATION OF FEATURES DESIGNATED "OTHER WATERS OF THE UNITED STATES"

Indicators:
- [ ] Defined Bed and Bank
- [ ] Scour
- [ ] Ordinary High Water Mark Mapped

Feature Designation:
- [ ] Perennial
- [ ] Intermittent
- [ ] Ephemeral
- [ ] Blue-line on U.S.G.S. Topographic Map
- [ ] Natural Drainage
- [ ] Artificial Drainage
- [ ] Navigable Water

Remarks:

DATA FORM: ROUTINE WETLAND DETERMINATION | Comm. ID: Riparian Wetland | Plot ID: DP 7

Project/Site: Lewiston 1 | Date: 11 April 2005
Applicant/Owner: BOR / USFS | County: Trinity
Investigator(s): C. Boggs | State: California

Do normal circumstances exist on the site? (Y) or N Explain: Phase 19
Is the site significantly disturbed (atypical situation)? Y or (N)
Is the area a potential problem area? Y or (N)

VEGETATION

Dominant Plant Species	Cover	Stratum	Indicator
1. Salix exigua	40	S	OBL
2. Rubus discolor	30	S	FACW*
3. Elymus glaucus	20	H	FACU
4. Boulder/cobble/gravel	10	N/A	N/A
5.			
6.			
7.			
8.			
9.			
10.			

Percent of dominant species that are OBL, FACW or FAC 3/5 = 66%

Remarks: Sufficient hydrophytic vegetation.

HYDROLOGY

- [x] Recorded Data (Describe in Remarks)
  - [ ] stream, lake, or tide gauge
  - [x] aerial photographs
  - [ ] other _____
- [ ] No Recorded data available

Field Observation:
Depth of Surface Water: None (in.)
Depth to Free Water in Pit: N/A (in.)
Depth to Saturated Soil: N/A (in.)

Wetland Hydrology Indicators

Primary Indicators	Secondary Indicators
☐ inundated	☐ oxidized root channels in upper 12"
☐ saturated in upper 12"	☐ water-stained leaves
☐ water marks	☒ local soil survey data
☒ drift lines	☒ FAC-neutral test
☒ sediment deposits	☐ other (explain in remarks)
☒ drainage patterns in wetlands	

Remarks: Sufficient wetland hydrology indicators.

SOILS

Map Unit Name (Series and Phase): 351 - Xerofluvents - River wash Assoc, 0% slope
Taxonomy (Subgroup): _____
Hydric Status on NRCS Field Office List: Hydric
Drainage Class: _____
Field Observations Confirm Mapped Type? Y N UNK

Depth	Horizon	Matrix Color	Mottle Colors	Mottle Abundance/contrast	Texture, Concretions, Structure, Etc.

Remarks: No pit dug. Too rocky. Sufficient hydric soils indicators.

Hydric Soil Indicators:

- ☐ Histosol
- ☐ Histic Epipedon
- ☐ Sulfidic odor
- ☐ Aquic moisture regime
- ☐ Reducing conditions
- ☐ Concretions
- ☐ Positive alpha-alpha dipyridyl test
- ☐ Gleyed or low-chroma colors
- ☐ High organic content in surface layer in sandy soil
- ☐ Organic streaking in sandy soils
- ☒ Listed on local hydric soils list
- ☐ Listed on national hydric soils list
- ☒ Other Frequently flooded

WETLAND DETERMINATION

Hydrophytic vegetation present? (Y) or N Wetland Hydrology Present? (Y) or N Hydric Soils Present? (Y) or N
Is this point within a wetland? (Y) or N Is this point within an "Other waters of the U.S."? Y or (N) (if yes, complete bottom of form)

Remarks: Data point marks point where overflow channel is present due to being frequented flooded. Riparian wetland is periodically inundated due to elevation and location within OHWM of Trinity River (i.e., wetland island).

ACOE JURISDICTION

ACOE Jurisdiction:
☒ Adjacent to Waters ☐ Tributary to Waters ☐ Isolated (with Interstate Commerce) ☐ Isolated (non-jurisdictional)
Explain: _____

EVALUATION OF FEATURES DESIGNATED "OTHER WATERS OF THE UNITED STATES"

Indicators:
☐ Defined Bed and Bank ☐ Scour ☐ Ordinary High Water Mark Mapped

Feature Designation:
☐ Perennial ☐ Intermittent ☐ Ephemeral ☐ Blue-line on U.S.G.S. Topographic Map
☐ Natural Drainage ☐ Artificial Drainage ☐ Navigable Water

Remarks:

DATA FORM: ROUTINE WETLAND DETERMINATION | Comm. ID: Upland | Plot ID: DP8

Project/Site: Lewiston 1 | Date: 11 April 2005
Applicant/Owner: BOR / USFS | County: Trinity
Investigator(s): C. Boggs | State: California

Do normal circumstances exist on the site? (Y) or N Explain: Photo 19
Is the site significantly disturbed (atypical situation)? Y or (N)
Is the area a potential problem area? Y or (N)

VEGETATION

Dominant Plant Species	Cover	Stratum	Indicator
1. Salix exigua	20	S	OBL
2. Rubus discolor	20	S	FACW*
3. Elymus glaucus	25	H	FACU
4. Bromus tectorum	20	H	NL
5. Lotus micranthus	10	H	NL
6. Boulder/cobble/gravel	5	N/A	N/A
7.			
8.			
9.			
10.			

Percent of dominant species that are OBL, FACW or FAC 2/4 = 50%

Remarks:
Insufficient hydrophytic vegetation.

HYDROLOGY

- [x] Recorded Data (Describe in Remarks)
  - [ ] stream, lake, or tide gauge
  - [x] aerial photographs
  - [ ] other
- [ ] No Recorded data available

Field Observation:
Depth of Surface Water: None (in.)
Depth to Free Water in Pit: N/A (in.)
Depth to Saturated Soil: N/A (in.)

Wetland Hydrology Indicators

Primary Indicators	Secondary Indicators
[ ] inundated	[ ] oxidized root channels in upper 12"
[ ] saturated in upper 12"	[ ] water-stained leaves
[ ] water marks	[x] local soil survey data
[ ] drift lines	[ ] FAC-neutral test
[ ] sediment deposits	[ ] other (explain in remarks)
[ ] drainage patterns in wetlands	

Remarks:
Insufficient wetland hydrology indicators.

SOILS

Map Unit Name (Series and Phase): 351 - Xerofluvents - River wash Assoc, 0% Slope
Taxonomy (Subgroup):
Hydric Status on NRCS Field Office List: Hydric

Drainage Class:
Field Observations Confirm Mapped Type? Y N UNK

Depth	Horizon	Matrix Color	Mottle Colors	Mottle Abundance/contrast	Texture, Concretions, Structure, Etc.

Hydric Soil Indicators:

- [ ] Histosol
- [ ] Histic Epipedon
- [ ] Sulfidic odor
- [ ] Aquic moisture regime
- [ ] Reducing conditions
- [ ] Concretions
- [ ] Positive alpha-alpha dipyridyl test
- [ ] Gleyed or low-chroma colors
- [ ] High organic content in surface layer in sandy soil
- [ ] Organic streaking in sandy soils
- [x] Listed on local hydric soils list
- [ ] Listed on national hydric soils list
- [ ] Other

Remarks:
No pit dug. Too rocky. Sufficient hydric soils indicator.

WETLAND DETERMINATION

Hydrophytic vegetation present? Y or (N) Wetland Hydrology Present? Y or (N) Hydric Soils Present? (Y) or N
Is this point within a wetland? Y or (N) Is this point within an "Other waters of the U.S."? Y or (N) (If yes, complete bottom of form)

Remarks:
Upland data point paired to riparian wetland (DP 7).

ACOE JURISDICTION

ACOE Jurisdiction:
[ ] Adjacent to Waters [ ] Tributary to Waters [ ] Isolated (with Interstate Commerce) [ ] Isolated (non-jurisdictional)
Explain:

EVALUATION OF FEATURES DESIGNATED "OTHER WATERS OF THE UNITED STATES"

Indicators:
[ ] Defined Bed and Bank [ ] Scour [ ] Ordinary High Water Mark Mapped

Feature Designation:
[ ] Perennial [ ] Intermittent [ ] Ephemeral [ ] Blue-line on U.S.G.S. Topographic Map
[ ] Natural Drainage [ ] Artificial Drainage [ ] Navigable Water

Remarks:

DATA FORM: ROUTINE WETLAND DETERMINATION | Comm. ID: Perennial Stream | Plot ID: DP 9

Project/Site: Lewiston 1 | Date: 11 April 2005
Applicant/Owner: BoR / USFS | County: Trinity
Investigator(s): C. Boggs | State: California

Do normal circumstances exist on the site? (Y) or N Explain: Photo 20
Is the site significantly disturbed (atypical situation)? Y or (N)
Is the area a potential problem area? Y or (N)

VEGETATION

Dominant Plant Species	Cover	Stratum	Indicator
1. Flowing water	60	N/A	N/A
2. Boulder/cobble/gravel	20	N/A	N/A
3. Salix exigua	10	S	OBL
4. Alnus rhombifolia	10	T	OBL
5.			
6.			
7.			
8.			
9.			
10.			

Percent of dominant species that are OBL, FACW or FAC N/A

Remarks: Perennial stream is mostly devoid of veg, except along banks and on some gravel bars.

HYDROLOGY

- [x] Recorded Data (Describe in Remarks)
  - [ ] stream, lake, or tide gauge
  - [x] aerial photographs
  - [ ] other
- [ ] No Recorded data available

Field Observation:
Depth of Surface Water: >12 (in.)
Depth to Free Water in Pit: N/A (in.)
Depth to Saturated Soil: N/A (in.)

Wetland Hydrology Indicators

Primary Indicators	Secondary Indicators
[x] inundated	[ ] oxidized root channels in upper 12"
[x] saturated in upper 12"	[ ] water-stained leaves
[x] water marks	[x] local soil survey data
[x] drift lines	[ ] FAC-neutral test
[x] sediment deposits	[ ] other (explain in remarks)
[x] drainage patterns in wetlands	

Remarks: Sufficient wetland hydrology indicators.

SOILS

Map Unit Name (Series and Phase): 351 - Xerofluvents - River Wash Assoc 0% slope
Taxonomy (Subgroup):
Hydric Status on NRCS Field Office List: Hydric

Drainage Class:
Field Observations Confirm Mapped Type? Y N UNK

Depth	Horizon	Matrix Color	Mottle Colors	Mottle Abundance/contrast	Texture, Concretions, Structure, Etc.

Hydric Soil Indicators:

- [ ] Histosol
- [ ] Histic Epipedon
- [ ] Sulfidic odor
- [ ] Aquic moisture regime
- [ ] Reducing conditions
- [ ] Concretions
- [ ] Positive alpha-alpha dipyridyl test
- [ ] Gleyed or low-chroma colors
- [ ] High organic content in surface layer in sandy soil
- [ ] Organic streaking in sandy soils
- [x] Listed on local hydric soils list
- [ ] Listed on national hydric soils list
- [x] Other Frequently flooded

Remarks: No pit dug. Too rocky. Frequently flooded (perennial flow). Sufficient hydric soils indicators.

WETLAND DETERMINATION

Hydrophytic vegetation present? Y or (N) Wetland Hydrology Present? (Y) or N Hydric Soils Present? (Y) or N
Is this point within a wetland? Y or (N) Is this point within an "Other waters of the U.S."? (Y) or N (if yes, complete bottom of form)

Remarks: Trinity River is a perennial stream.

ACOE JURISDICTION

ACOE Jurisdiction:
[ ] Adjacent to Waters [ ] Tributary to Waters [ ] Isolated (with Interstate Commerce) [ ] Isolated (non-jurisdictional)
Explain:

EVALUATION OF FEATURES DESIGNATED "OTHER WATERS OF THE UNITED STATES"

Indicators:
[x] Defined Bed and Bank [x] Scour [x] Ordinary High Water Mark Mapped

Feature Designation:
[x] Perennial [ ] Intermittent [ ] Ephemeral [x] Blue-line on U.S.G.S. Topographic Map
[x] Natural Drainage [ ] Artificial Drainage [x] Navigable Water
Remarks:

DATA FORM: ROUTINE WETLAND DETERMINATION | Comm. ID: Upland | Plot ID: DP 10

Project/Site: Lewiston 1 | Date: 11 April 2005
Applicant/Owner: BOR/USFS | County: Trinity
Investigator(s): C. Boggs | State: California

Do normal circumstances exist on the site? (Y) or N Explain: Photo 20
Is the site significantly disturbed (atypical situation)? Y or (N)
Is the area a potential problem area? Y or (N)

VEGETATION

Dominant Plant Species	Cover	Stratum	Indicator
1. Poa bulbosa	30	H	NL
2. Medicago lupulina	20	H	FAC
3. Erodium botrys	20	H	NL
4. Hirschfeldia incana	20	H	NL
5. Cobble/gravel	10	N/A	N/A
6.			
7.			
8.			
9.			
10.			

Percent of dominant species that are OBL, FACW or FAC 1/4 = 25%

Remarks: Insufficient hydrophytic vegetation.

HYDROLOGY

- [x] Recorded Data (Describe in Remarks)
  - [ ] stream, lake, or tide gauge
  - [x] aerial photographs
  - [ ] other
- [ ] No Recorded data available

Field Observation:
Depth of Surface Water: None (in.)
Depth to Free Water in Pit: N/A (in.)
Depth to Saturated Soil: N/A (in.)

Wetland Hydrology Indicators

Primary Indicators	Secondary Indicators
[ ] inundated	[ ] oxidized root channels in upper 12"
[ ] saturated in upper 12"	[ ] water-stained leaves
[ ] water marks	[x] local soil survey data
[ ] drift lines	[ ] FAC-neutral test
[ ] sediment deposits	[ ] other (explain in remarks)
[ ] drainage patterns in wetlands	

Remarks: Insufficient wetland hydrology indicators.

SOILS

Map Unit Name (Series and Phase): 351-Xerofluvents-River Wash Assoc, 0% Slope
Taxonomy (Subgroup):
Hydric Status on NRCS Field Office List: Hydric

Drainage Class:
Field Observations Confirm Mapped Type? Y N UNK

Depth	Horizon	Matrix Color	Mottle Colors	Mottle Abundance/contrast	Texture, Concretions, Structure, Etc.

Remarks: Sufficient hydric soils indicator. No pit dug. Too rocky.

Hydric Soil Indicators:

- [ ] Histosol
- [ ] Histic Epipedon
- [ ] Sulfidic odor
- [ ] Aquic moisture regime
- [ ] Reducing conditions
- [ ] Concretions
- [ ] Positive alpha-alpha dipyridyl test
- [ ] Gleyed or low-chroma colors
- [ ] High organic content in surface layer in sandy soil
- [ ] Organic streaking in sandy soils
- [x] Listed on local hydric soils list
- [ ] Listed on national hydric soils list
- [ ] Other

WETLAND DETERMINATION

Hydrophytic vegetation present? Y or (N) Wetland Hydrology Present? Y or (N) Hydric Soils Present? (Y) or N
Is this point within a wetland? Y or (N) Is this point within an "Other waters of the U.S."? Y or (N) (If yes, complete bottom of form)

Remarks: Upland data point paired to perennial stream (DP 9).

ACOE JURISDICTION

ACOE Jurisdiction:
[ ] Adjacent to Waters [ ] Tributary to Waters [ ] Isolated (with Interstate Commerce) [ ] Isolated (non-jurisdictional)
Explain:

EVALUATION OF FEATURES DESIGNATED "OTHER WATERS OF THE UNITED STATES"

Indicators:
[ ] Defined Bed and Bank [ ] Scour [ ] Ordinary High Water Mark Mapped

Feature Designation:
[ ] Perennial [ ] Intermittent [ ] Ephemeral [ ] Blue-line on U.S.G.S. Topographic Map
[ ] Natural Drainage [ ] Artificial Drainage [ ] Navigable Water
Remarks:

DATA FORM: ROUTINE WETLAND DETERMINATION | Comm. ID: Perennial Stream | Plot ID: DP 11

Project/Site: Lewiston 2 | Date: 11 April 2005
Applicant/Owner: BOR / Private | County: Trinity
Investigator(s): C. Boggs | State: California
Do normal circumstances exist on the site? (Y) or N Explain: Photo 21
Is the site significantly disturbed (atypical situation)? Y or (N)
Is the area a potential problem area? Y or (N)

VEGETATION

Dominant Plant Species	Cover	Stratum	Indicator
1. Fraxinus latifolia	5	T (sapling)	FACW
2. Rumex salicifolius	15	H	OBL
3. Open Water	45	N/A	N/A
4. Algae	35	N/A	N/A
5.			
6.			
7.			
8.			
9.			
10.			

Percent of dominant species that are OBL, FACW or FAC: N/A

Remarks: Data point location represents backwater channel that is currently ponded.

HYDROLOGY

- [x] Recorded Data (Describe in Remarks)
  - [ ] stream, lake, or tide gauge
  - [x] aerial photographs
  - [ ] other
- [ ] No Recorded data available

Field Observation:
Depth of Surface Water: 5 (in.)
Depth to Free Water in Pit: N/A (in.)
Depth to Saturated Soil: N/A (in.)

Wetland Hydrology Indicators

Primary Indicators	Secondary Indicators
[x] inundated	[ ] oxidized root channels in upper 12"
[x] saturated in upper 12"	[ ] water-stained leaves
[x] water marks	[x] local soil survey data
[x] drift lines	[ ] FAC-neutral test
[x] sediment deposits	[ ] other (explain in remarks)
[x] drainage patterns in wetlands	

Remarks: Sufficient wetland hydrology indicators.

SOILS

Map Unit Name (Series and Phase): 217 - Xerofluvents - Riverwash complex, 0-5% slopes
Taxonomy (Subgroup): Xerofluvents
Hydric Status on NRCS Field Office List: Hydric
Drainage Class: Well
Field Observations Confirm Mapped Type? (Y) N UNK

Depth	Horizon	Matrix Color	Mottle Colors	Mottle Abundance/contrast	Texture, Concretions, Structure, Etc.

Remarks: No pit dug. Too rocky. Sufficient hydric soils indicators.

Hydric Soil Indicators:

- [ ] Histosol
- [ ] Histic Epipedon
- [ ] Sulfidic odor
- [ ] Aquic moisture regime
- [ ] Reducing conditions
- [ ] Concretions
- [ ] Positive alpha-alpha dipyridyl test
- [ ] Gleyed or low-chroma colors
- [ ] High organic content in surface layer in sandy soil
- [ ] Organic streaking in sandy soils
- [x] Listed on local hydric soils list
- [ ] Listed on national hydric soils list
- [x] Other: Frequently flooded

WETLAND DETERMINATION

Hydrophytic vegetation present? (Y) or N Wetland Hydrology Present? (Y) or N Hydric Soils Present? (Y) or N
Is this point within a wetland? Y or (N) Is this point within an "Other waters of the U.S."? (Y) or N (if yes, complete bottom of form)

Remarks: Data point location represents backwater channel within OHWM of the Trinity River, a perennial stream.

ACOE JURISDICTION

ACOE Jurisdiction:
- [ ] Adjacent to Waters
- [ ] Tributary to Waters
- [ ] Isolated (with Interstate Commerce)
- [ ] Isolated (non-jurisdictional)

Explain:

EVALUATION OF FEATURES DESIGNATED "OTHER WATERS OF THE UNITED STATES"

Indicators:
- [x] Defined Bed and Bank
- [x] Scour
- [x] Ordinary High Water Mark Mapped

Feature Designation:
- [x] Perennial
- [ ] Intermittent
- [ ] Ephemeral
- [x] Blue-line on U.S.G.S. Topographic Map
- [x] Natural Drainage
- [ ] Artificial Drainage
- [x] Navigable Water

Remarks:

DATA FORM: ROUTINE WETLAND DETERMINATION | Comm. ID: Upland | Plot ID: DP 12

Project/Site: Lewiston 2 | Date: 11 April 2005
Applicant/Owner: BOR / Private | County: Trinity
Investigator(s): C. Boggs | State: California

Do normal circumstances exist on the site? (Y) or N Explain: Photo 21
Is the site significantly disturbed (atypical situation)? Y or (N)
Is the area a potential problem area? Y or (N)

VEGETATION

Dominant Plant Species	Cover	Stratum	Indicator
1. Bromus diandrus	30	H	NL
2. Lepidium campestre	25	H	NL
3. Cerastium dissectum	25	H	NL
4. Hordeum jubatum	20	H	FAC+
5.			
6.			
7.			
8.			
9.			
10.			

Percent of dominant species that are OBL, FACW or FAC 1/4 = 25%

Remarks:
Insufficient hydrophytic vegetation.

HYDROLOGY

- [x] Recorded Data (Describe in Remarks)
  - [ ] stream, lake, or tide gauge
  - [x] aerial photographs
  - [ ] other
- [ ] No Recorded data available

Field Observation:
Depth of Surface Water: None (in.)
Depth to Free Water in Pit: N/A (in.)
Depth to Saturated Soil: N/A (in.)

Wetland Hydrology Indicators

Primary Indicators	Secondary Indicators
☐ inundated	☐ oxidized root channels in upper 12"
☐ saturated in upper 12"	☐ water-stained leaves
☐ water marks	☒ local soil survey data
☐ drift lines	☐ FAC-neutral test
☐ sediment deposits	☐ other (explain in remarks)
☐ drainage patterns in wetlands	

Remarks:
Insufficient wetland hydrology indicators.

SOILS

Map Unit Name (Series and Phase): 217 - Xerofluvents-Riverwash complex, 0-5% slopes
Taxonomy (Subgroup): Xerofluvents
Hydric Status on NRCS Field Office List: Hydric

Drainage Class: Well
Field Observations Confirm Mapped Type? (Y) N UNK

Depth	Horizon	Matrix Color	Mottle Colors	Mottle Abundance/contrast	Texture, Concretions, Structure, Etc.

Remarks:
Too pit dug. Too rocky. Sufficient hydric soils indicators.

Hydric Soil Indicators:

- ☐ Histosol
- ☐ Histic Epipedon
- ☐ Sulfidic odor
- ☐ Aquic moisture regime
- ☐ Reducing conditions
- ☐ Concretions
- ☐ Positive alpha-alpha dipyridyl test
- ☐ Gleyed or low-chroma colors
- ☐ High organic content in surface layer in sandy soil
- ☐ Organic streaking in sandy soils
- ☒ Listed on local hydric soils list
- ☐ Listed on national hydric soils list
- ☐ Other

WETLAND DETERMINATION

Hydrophytic vegetation present? Y or (N) Wetland Hydrology Present? Y or (N) Hydric Soils Present? (Y) or N
Is this point within a wetland? Y or (N) Is this point within an "Other waters of the U.S."? Y or (N) (if yes, complete bottom of form)

Remarks:
Upland data point paired to perennial stream (DP 11).

ACOE JURISDICTION

ACOE Jurisdiction:
☐ Adjacent to Waters ☐ Tributary to Waters ☐ Isolated (with Interstate Commerce) ☐ Isolated (non-jurisdictional)
Explain:

EVALUATION OF FEATURES DESIGNATED "OTHER WATERS OF THE UNITED STATES"

Indicators:
☐ Defined Bed and Bank ☐ Scour ☐ Ordinary High Water Mark Mapped

Feature Designation:
☐ Perennial ☐ Intermittent ☐ Ephemeral ☐ Blue-line on U.S.G.S. Topographic Map
☐ Natural Drainage ☐ Artificial Drainage ☐ Navigable Water

Remarks:

DATA FORM: ROUTINE WETLAND DETERMINATION | Comm. ID: Intermittent Drainage | Plot ID: DP 12

Project/Site: Lewiston 3 | Date: 11 April 2005
Applicant/Owner: BOR / CDFG | County: Trinity
Investigator(s): C. Boggs | State: California

Do normal circumstances exist on the site? (Y) or N Explain: Photo 22
Is the site significantly disturbed (atypical situation)? Y or (N)
Is the area a potential problem area? Y or (N)

VEGETATION

Dominant Plant Species	Cover	Stratum	Indicator
1. Cobble / gravel	90	N/A	N/A
2. Poa bulbosa	5	H	NL
3. Medicago lupulina	5	H	FAC
4.			
5.			
6.			
7.			
8.			
9.			
10.			

Percent of dominant species that are OBL, FACW or FAC N/A

Remarks: Feature is mostly devoid of vegetation due to scour and deposition.

HYDROLOGY

- [x] Recorded Data (Describe in Remarks)
  - [ ] stream, lake, or tide gauge
  - [x] aerial photographs
  - [ ] other _____
- [ ] No Recorded data available

Field Observation:
Depth of Surface Water: 1 (in.)
Depth to Free Water in Pit: N/A (in.)
Depth to Saturated Soil: N/A (in.)

Wetland Hydrology Indicators

Primary Indicators	Secondary Indicators
[x] Inundated	[ ] oxidized root channels in upper 12"
[x] saturated in upper 12"	[ ] water-stained leaves
[x] water marks	[x] local soil survey data
[x] drift lines	[ ] FAC-neutral test
[x] sediment deposits	[ ] other (explain in remarks)
[x] drainage patterns in wetlands	

Remarks: Sufficient wetland hydrology indicators.

SOILS

Map Unit Name (Series and Phase): 217 - Xerofluvents - Riverwash complex, 0-5% slopes
Taxonomy (Subgroup): Xerofluvents
Hydric Status on NRCS Field Office List: Hydric
Drainage Class: well
Field Observations Confirm Mapped Type? (Y) N UNK

Depth	Horizon	Matrix Color	Mottle Colors	Mottle Abundance/contrast	Texture, Concretions, Structure, Etc.

Remarks: No pit dug. Too rocky. Sufficient hydric soils indicators.

Hydric Soil Indicators:

- [ ] Histosol
- [ ] Histic Epipedon
- [ ] Sulfidic odor
- [ ] Aquic moisture regime
- [ ] Reducing conditions
- [ ] Concretions
- [ ] Positive alpha-alpha dipyridyl test
- [ ] Gleyed or low-chroma colors
- [ ] High organic content in surface layer in sandy soil
- [ ] Organic streaking in sandy soils
- [x] Listed on local hydric soils list
- [ ] Listed on national hydric soils list
- [x] Other Frequently flooded

WETLAND DETERMINATION

Hydrophytic vegetation present? Y or (N) Wetland Hydrology Present? (Y) or N Hydric Soils Present? (Y) or N
Is this point within a wetland? Y or (N) Is this point within an "Other waters of the U.S."? (Y) or N (If yes, complete bottom of form)

Remarks: Upper reach is 1' wide and lower reach is 3' wide.

ACOE JURISDICTION

ACOE Jurisdiction:
- [ ] Adjacent to Waters
- [x] Tributary to Waters
- [ ] Isolated (with Interstate Commerce)
- [ ] Isolated (non-jurisdictional)

Explain:

EVALUATION OF FEATURES DESIGNATED "OTHER WATERS OF THE UNITED STATES"

Indicators:
- [x] Defined Bed and Bank
- [x] Scour
- [x] Ordinary High Water Mark Mapped

Feature Designation:
- [ ] Perennial
- [x] Intermittent
- [ ] Ephemeral
- [ ] Blue-line on U.S.G.S. Topographic Map
- [ ] Natural Drainage
- [x] Artificial Drainage
- [ ] Navigable Water

Remarks: Water is currently flowing.

DATA FORM: ROUTINE WETLAND DETERMINATION | Comm. ID: Upland | Plot ID: DP 14

Project/Site: Lewiston 3 | Date: 11 April 2005
Applicant/Owner: BOR / CDFG | County: Trinity
Investigator(s): C. Boggs | State: California

Do normal circumstances exist on the site? (Y) or N Explain: Hole 22
Is the site significantly disturbed (atypical situation)? Y or (N)
Is the area a potential problem area? Y or (N)

VEGETATION

Dominant Plant Species	Cover	Stratum	Indicator
1. Poa bulbosa	35	H	NL
2. Trifolium hirtum	20	H	NL
3. Centaurea solstitialis	20	H	NL
4. Medicago [illegible]	15	H	FAC
5. Amsinckia menziesii	10	H	NL
6.			
7.			
8.			
9.			
10.			

Percent of dominant species that are OBL, FACW or FAC 0/3 = 0%

Remarks:
Insufficient hydrophytic vegetation.

HYDROLOGY

- [x] Recorded Data (Describe in Remarks)
  - [ ] stream, lake, or tide gauge
  - [x] aerial photographs
  - [ ] other _____
- [ ] No Recorded data available

Field Observation:
Depth of Surface Water: None (in.)
Depth to Free Water in Pit: N/A (in.)
Depth to Saturated Soil: N/A (in.)

Wetland Hydrology Indicators

Primary Indicators	Secondary Indicators
☐ inundated	☐ oxidized root channels in upper 12"
☐ saturated in upper 12"	☐ water-stained leaves
☐ water marks	☒ local soil survey data
☐ drift lines	☐ FAC-neutral test
☐ sediment deposits	☐ other (explain in remarks)
☐ drainage patterns in wetlands	

Remarks:
Insufficient wetland hydrology indicators.

SOILS

Map Unit Name (Series and Phase): 217 - Xerofluvents - Riverwash complex, 0-5% slopes
Taxonomy (Subgroup): Xerofluvents
Hydric Status on NRCS Field Office List: Hydric

Drainage Class: well
Field Observations Confirm Mapped Type? (Y) N UNK

Depth	Horizon	Matrix Color	Mottle Colors	Mottle Abundance/contrast	Texture, Concretions, Structure, Etc.

Hydric Soil Indicators:

☐	Histosol	☐	Positive alpha-alpha dipyridyl test
☐	Histic Epipedon	☐	Gleyed or low-chroma colors
☐	Sulfidic odor	☐	High organic content in surface layer in sandy soil
☐	Aquic moisture regime	☒	Organic streaking in sandy soils
☐	Reducing conditions	☐	Listed on local hydric soils list
☐	Concretions	☐	Listed on national hydric soils list
		☐	Other

Remarks:
No pit dug. Too rocky. Sufficient hydric soils indicators.

WETLAND DETERMINATION

Hydrophytic vegetation present? Y or (N) Wetland Hydrology Present? Y or (N) Hydric Soils Present? (Y) or N
Is this point within a wetland? Y or (N) Is this point within an "Other waters of the U.S."? Y or (N) (if yes, complete bottom of form)

Remarks:
Upland data point paired to intermittent drainage (DP 13).

ACOE JURISDICTION

ACOE Jurisdiction:
☐ Adjacent to Waters ☐ Tributary to Waters ☐ Isolated (with Interstate Commerce) ☐ Isolated (non-jurisdictional)
Explain:

EVALUATION OF FEATURES DESIGNATED "OTHER WATERS OF THE UNITED STATES"

Indicators:
☐ Defined Bed and Bank ☐ Scour ☐ Ordinary High Water Mark Mapped

Feature Designation:
☐ Perennial ☐ Intermittent ☐ Ephemeral ☐ Blue-line on U.S.G.S. Topographic Map
☐ Natural Drainage ☐ Artificial Drainage ☐ Navigable Water

Remarks:

DATA FORM: ROUTINE WETLAND DETERMINATION | Comm. ID: Perennial Stream | Plot ID: DP 15

Project/Site: Lewiston 4 | Date: 12 April 2005
Applicant/Owner: BOR/CDFG | County: Trinity
Investigator(s): C. Boggs | State: California

Do normal circumstances exist on the site? (Y) or N Explain: Photo 23
Is the site significantly disturbed (atypical situation)? Y or (N)
Is the area a potential problem area? Y or (N)

VEGETATION

Dominant Plant Species	Cover	Stratum	Indicator
1. Flowing water	70	N/A	N/A
2. Cobble/gravel/sand	10	N/A	N/A
3. Alnus rhombifolia	10	T	OBL
4. Rubus discolor	10	S	FACW*
5.			
6.			
7.			
8.			
9.			
10.			

Percent of dominant species that are OBL, FACW or FAC: N/A

Remarks: Perennial stream is mostly devoid of veg, except along banks.

HYDROLOGY

- [X] Recorded Data (Describe in Remarks)
  - [ ] stream, lake, or tide gauge
  - [X] aerial photographs
  - [ ] other _____
- [ ] No Recorded data available

Field Observation:
Depth of Surface Water: > 12 (in.)
Depth to Free Water in Pit: N/A (in.)
Depth to Saturated Soil: N/A (in.)

Wetland Hydrology Indicators

Primary Indicators	Secondary Indicators
[X] inundated	[ ] oxidized root channels in upper 12"
[X] saturated in upper 12"	[ ] water-stained leaves
[X] water marks	[X] local soil survey data
[X] drift lines	[ ] FAC-neutral test
[X] sediment deposits	[ ] other (explain in remarks)
[X] drainage patterns in wetlands	

Remarks: Sufficient wetland hydrology indicators.

SOILS

Map Unit Name (Series and Phase): 217-Xerofluvent-Riverwash complex, 0-5% slope
Taxonomy (Subgroup): Xerofluvents
Hydric Status on NRCS Field Office List: Hydric
Drainage Class: well
Field Observations Confirm Mapped Type? (Y) N UNK

Depth	Horizon	Matrix Color	Mottle Colors	Mottle Abundance/contrast	Texture, Concretions, Structure, Etc.

Hydric Soil Indicators:

- [ ] Histosol
- [ ] Histic Epipedon
- [ ] Sulfidic odor
- [ ] Aquic moisture regime
- [ ] Reducing conditions
- [ ] Concretions
- [ ] Positive alpha-alpha dipyridyl test
- [ ] Gleyed or low-chroma colors
- [ ] High organic content in surface layer in sandy soil
- [ ] Organic streaking in sandy soils
- [X] Listed on local hydric soils list
- [ ] Listed on national hydric soils list
- [X] Other Frequently flooded

Remarks: No pit dug. Too rocky; currently inundated. Frequently flooded (perennial flow). Sufficient hydric soils indicators.

WETLAND DETERMINATION

Hydrophytic vegetation present? Y or (N) Wetland Hydrology Present? (Y) or N Hydric Soils Present? (Y) or N
Is this point within a wetland? Y or (N) Is this point within an "Other waters of the U.S."? (Y) or N (If yes, complete bottom of form)

Remarks: Trinity River is a perennial stream

ACOE JURISDICTION

ACOE Jurisdiction:
[ ] Adjacent to Waters [ ] Tributary to Waters [ ] Isolated (with Interstate Commerce) [ ] Isolated (non-jurisdictional)
Explain:

EVALUATION OF FEATURES DESIGNATED "OTHER WATERS OF THE UNITED STATES"

Indicators:
[X] Defined Bed and Bank [X] Scour [X] Ordinary High Water Mark Mapped

Feature Designation:
[X] Perennial [ ] Intermittent [ ] Ephemeral [X] Blue-line on U.S.G.S. Topographic Map
[X] Natural Drainage [ ] Artificial Drainage [X] Navigable Water

Remarks:

DATA FORM: ROUTINE WETLAND DETERMINATION | Comm. ID: Upland | Plot ID: DP 16

Project/Site: Lewiston 4 | Date: 12 April 2005
Applicant/Owner: BOR / CDFG | County: Trinity
Investigator(s): C. Boggs | State: California

Do normal circumstances exist on the site? (Y) or N Explain: Photo 23
Is the site significantly disturbed (atypical situation)? Y or (N)
Is the area a potential problem area? Y or (N)

VEGETATION

Dominant Plant Species	Cover	Stratum	Indicator
1. Rubus discolor	30	S	FACW
2. Poa bulbosa	30	H	NL
3. Plagiobothrys fulvus	20	H	NL
4. Lupinus bicolor	15	H	NL
5. Eschscholzia californica	5	H	NL
6.			
7.			
8.			
9.			
10.			

Percent of dominant species that are OBL, FACW or FAC 1/3 = 33%

Remarks: Insufficient hydrophytic vegetation.

HYDROLOGY

- [x] Recorded Data (Describe in Remarks)
  - [ ] stream, lake, or tide gauge
  - [x] aerial photographs
  - [ ] other _____
- [ ] No Recorded data available

Field Observation:
Depth of Surface Water: None (in.)
Depth to Free Water in Pit: None (in.)
Depth to Saturated Soil: Not Saturated (in.)

Wetland Hydrology Indicators

Primary Indicators	Secondary Indicators
☐ inundated	☐ oxidized root channels in upper 12"
☐ saturated in upper 12"	☐ water-stained leaves
☐ water marks	☒ local soil survey data
☐ drift lines	☐ FAC-neutral test
☐ sediment deposits	☐ other (explain in remarks)
☐ drainage patterns in wetlands	

Remarks: Insufficient wetland hydrology indicators.

SOILS

Map Unit Name (Series and Phase): 217 - Xerofluvents-Riverwash complex, 0-5% slopes
Taxonomy (Subgroup): Xerofluvents
Hydric Status on NRCS Field Office List: Hydric
Drainage Class: well
Field Observations Confirm Mapped Type? (Y) N UNK

Depth	Horizon	Matrix Color	Mottle Colors	Mottle Abundance/contrast	Texture, Concretions, Structure, Etc.
0-12"	—	10YR 4/2	N/A	N/A	Cobbly gravelly sand

Remarks: Sufficient hydric soils indicator.

Hydric Soil Indicators:

- [ ] Histosol
- [ ] Histic Epipedon
- [ ] Sulfidic odor
- [ ] Aquic moisture regime
- [ ] Reducing conditions
- [ ] Concretions
- [ ] Positive alpha-alpha dipyridyl test
- [ ] Gleyed or low-chroma colors
- [ ] High organic content in surface layer in sandy soil
- [ ] Organic streaking in sandy soils
- [x] Listed on local hydric soils list
- [ ] Listed on national hydric soils list
- [ ] Other _____

WETLAND DETERMINATION

Hydrophytic vegetation present? Y or N Wetland Hydrology Present? Y or (N) Hydric Soils Present? (Y) or N
Is this point within a wetland? Y or (N) Is this point within an "Other waters of the U.S."? Y or (N) (If yes, complete bottom of form)

Remarks: Upland data point paired to perennial stream (DP 15).

ACOE JURISDICTION

ACOE Jurisdiction:
☐ Adjacent to Waters ☐ Tributary to Waters ☐ Isolated (with Interstate Commerce) ☐ Isolated (non-jurisdictional)
Explain: _____

EVALUATION OF FEATURES DESIGNATED "OTHER WATERS OF THE UNITED STATES"

Indicators:
☐ Defined Bed and Bank ☐ Scour ☐ Ordinary High Water Mark Mapped

Feature Designation:
☐ Perennial ☐ Intermittent ☐ Ephemeral ☐ Blue-line on U.S.G.S. Topographic Map
☐ Natural Drainage ☐ Artificial Drainage ☐ Navigable Water

Remarks:

DATA FORM: ROUTINE WETLAND DETERMINATION | Comm. ID: Perennial Stream | Plot ID: DP17

Project/Site: Lewiston 3 | Date: 12 April 2005
Applicant/Owner: BOR / CDFG | County: Trinity
Investigator(s): C. Boggs | State: California

Do normal circumstances exist on the site? (Y) or N Explain: Photo 24
Is the site significantly disturbed (atypical situation)? Y or (N)
Is the area a potential problem area? Y or (N)

VEGETATION

Dominant Plant Species	Cover	Stratum	Indicator
1. Flowing Water	65	N/A	N/A
2. Alnus rhombifolia	10	T	OBL
3. Salix lasiolepis	10	S	FACW
4. Rubus discolor	10	S	FACW*
5. Juncus effusus	5	H	OBL
6.			
7.			
8.			
9.			
10.			

Percent of dominant species that are OBL, FACW or FAC: N/A

Remarks: Perennial stream is mostly devoid of veg, except along banks.

HYDROLOGY

- [x] Recorded Data (Describe in Remarks)
  - [ ] stream, lake, or tide gauge
  - [x] aerial photographs
  - [ ] other
- [ ] No Recorded data available

Field Observation:
Depth of Surface Water: >12 (in.)
Depth to Free Water in Pit: N/A (in.)
Depth to Saturated Soil: N/A (in.)

Wetland Hydrology Indicators

Primary Indicators	Secondary Indicators
[x] inundated	[ ] oxidized root channels in upper 12"
[x] saturated in upper 12"	[ ] water-stained leaves
[x] water marks	[x] local soil survey data
[x] drift lines	[ ] FAC-neutral test
[x] sediment deposits	[ ] other (explain in remarks)
[x] drainage patterns in wetlands	

Remarks: Sufficient wetland hydrology indicators.

SOILS

Map Unit Name (Series and Phase): 217 - Xerofluvents-Riverwash complex, 0-5% slopes
Taxonomy (Subgroup): Xerofluvents
Hydric Status on NRCS Field Office List: Hydric

Drainage Class: Well
Field Observations Confirm Mapped Type? (Y) N UNK

Depth	Horizon	Matrix Color	Mottle Colors	Mottle Abundance/contrast	Texture, Concretions, Structure, Etc.

Remarks: No pit dug. Currently inundated. Too rocky. Frequently flooded (perennial flow). Sufficient hydric soils indicators.

Hydric Soil Indicators:

- [ ] Histosol
- [ ] Histic Epipedon
- [ ] Sulfidic odor
- [ ] Aquic moisture regime
- [ ] Reducing conditions
- [ ] Concretions
- [ ] Positive alpha-alpha dipyridyl test
- [ ] Gleyed or low-chroma colors
- [ ] High organic content in surface layer in sandy soil
- [ ] Organic streaking in sandy soils
- [x] Listed on local hydric soils list
- [ ] Listed on national hydric soils list
- [x] Other: Frequently flooded

WETLAND DETERMINATION

Hydrophytic vegetation present? Y or (N) Wetland Hydrology Present? (Y) or N Hydric Soils Present? (Y) or N
Is this point within a wetland? Y or (N) Is this point within an "Other waters of the U.S."? (Y) or N (if yes, complete bottom of form)

Remarks: Trinity River is a perennial stream.

ACOE JURISDICTION

ACOE Jurisdiction:
[ ] Adjacent to Waters [ ] Tributary to Waters [ ] Isolated (with Interstate Commerce) [ ] Isolated (non-jurisdictional)
Explain:

EVALUATION OF FEATURES DESIGNATED "OTHER WATERS OF THE UNITED STATES"

Indicators:
[x] Defined Bed and Bank [x] Scour [x] Ordinary High Water Mark Mapped

Feature Designation:
[x] Perennial [ ] Intermittent [ ] Ephemeral [x] Blue-line on U.S.G.S. Topographic Map
[x] Natural Drainage [ ] Artificial Drainage [x] Navigable Water

Remarks:

DATA FORM: ROUTINE WETLAND DETERMINATION | Comm. ID: Upland | Plot ID: DP 8

Project/Site: Lewiston 3 | Date: 12 April 2005
Applicant/Owner: BOR / CDFG | County: Trinity
Investigator(s): C. Boggs | State: California
Do normal circumstances exist on the site? Y or N | Explain: Photo 24
Is the site significantly disturbed (atypical situation)? Y or N
Is the area a potential problem area? Y or N

VEGETATION

Dominant Plant Species	Cover	Stratum	Indicator
1. Pinus sabiniana	10	T	NL
2. Salix lasiolepis	15	S	FACW
3. Rubus discolor	65	S	FACW*
4. Poa bulbosa	10	H	NL
5.			
6.			
7.			
8.			
9.			
10.			

Percent of dominant species that are OBL, FACW or FAC 1/4 = 100%

Remarks: Sufficient hydrophytic vegetation.

HYDROLOGY

- [x] Recorded Data (Describe in Remarks)
  - [ ] stream, lake, or tide gauge
  - [x] aerial photographs
  - [ ] other
- [ ] No Recorded data available

Field Observation:
Depth of Surface Water: None (in.)
Depth to Free Water in Pit: N/A (in.)
Depth to Saturated Soil: N/A (in.)

Wetland Hydrology Indicators

Primary Indicators	Secondary Indicators
☐ inundated	☐ oxidized root channels in upper 12"
☐ saturated in upper 12"	☐ water-stained leaves
☐ water marks	☒ local soil survey data
☐ drift lines	☐ FAC-neutral test
☐ sediment deposits	☐ other (explain in remarks)
☐ drainage patterns in wetlands	

Remarks: Insufficient wetland hydrology indicators.

SOILS

Map Unit Name (Series and Phase): 217 - Xerofluvents-Riverwash complex, 0-5% slopes
Taxonomy (Subgroup): Xerofluvents
Hydric Status on NRCS Field Office List: Hydric
Drainage Class: well
Field Observations Confirm Mapped Type? Y N UNK

Depth	Horizon	Matrix Color	Mottle Colors	Mottle Abundance/contrast	Texture, Concretions, Structure, Etc.

Remarks: No pit dug. Too rocky. Sufficient hydric soils indicators.

Hydric Soil Indicators:

- ☐ Histosol
- ☐ Histic Epipedon
- ☐ Sulfidic odor
- ☐ Aquic moisture regime
- ☐ Reducing conditions
- ☐ Concretions
- ☐ Positive alpha-alpha dipyridyl test
- ☐ Gleyed or low-chroma colors
- ☐ High organic content in surface layer in sandy soil
- ☐ Organic streaking in sandy soils
- ☒ Listed on local hydric soils list
- ☐ Listed on national hydric soils list
- ☐ Other

WETLAND DETERMINATION

Hydrophytic vegetation present? Y or N | Wetland Hydrology Present? Y or N | Hydric Soils Present? Y or N
Is this point within a wetland? Y or N | Is this point within an "Other waters of the U.S."? Y or N (if yes, complete bottom of form)

Remarks: Upland data point paired to perennial stream (DP 17).

ACOE JURISDICTION

ACOE Jurisdiction:
☐ Adjacent to Waters ☐ Tributary to Waters ☐ Isolated (with Interstate Commerce) ☐ Isolated (non-jurisdictional)
Explain:

EVALUATION OF FEATURES DESIGNATED "OTHER WATERS OF THE UNITED STATES"

Indicators:
☐ Defined Bed and Bank ☐ Scour ☐ Ordinary High Water Mark Mapped

Feature Designation:
☐ Perennial ☐ Intermittent ☐ Ephemeral ☐ Blue-line on U.S.G.S. Topographic Map
☐ Natural Drainage ☐ Artificial Drainage ☐ Navigable Water

Remarks:

DATA FORM: ROUTINE WETLAND DETERMINATION | Comm. ID: Perennial Stream | Plot ID: DP 19

Project/Site: Lewiston 4 | Date: 12 April 2005
Applicant/Owner: BOR / CDFG | County: Trinity
Investigator(s): C. Boggs | State: California

Do normal circumstances exist on the site? (Y) or N Explain: Photo 25
Is the site significantly disturbed (atypical situation)? Y or (N)
Is the area a potential problem area? Y or (N)

VEGETATION

Dominant Plant Species	Cover	Stratum	Indicator
1. Flowing water	60	N/A	N/A
2. Salix exigua	10	S	OBL
3. Alnus rhombifolia	5	T	OBL
4. Rubus discolor	5	S	FACW*
5. Boulder / cobble / gravel	5	N/A	N/A
6. Juncus effusus	5	H	OBL
7. Lathyrus latifolia	5	H	NL
8. Carex nudata	5	H	OBL
9.			
10.			

Percent of dominant species that are OBL, FACW or FAC N/A

Remarks: Feature is mostly devoid of veg., except along banks.

HYDROLOGY

- [X] Recorded Data (Describe in Remarks)
  - [ ] stream, lake, or tide gauge
  - [X] aerial photographs
  - [ ] other _____
- [ ] No Recorded data available

Field Observation:
Depth of Surface Water: >12 (in.)
Depth to Free Water in Pit: N/A (in.)
Depth to Saturated Soil: N/A (in.)

Wetland Hydrology Indicators

Primary Indicators	Secondary Indicators
[X] inundated	[ ] oxidized root channels in upper 12"
[X] saturated in upper 12"	[ ] water-stained leaves
[X] water marks	[X] local soil survey data
[X] drift lines	[ ] FAC-neutral test
[X] sediment deposits	[ ] other (explain in remarks)
[X] drainage patterns in wetlands	

Remarks: Sufficient wetland hydrology indicators.

SOILS

Map Unit Name (Series and Phase): 217 - Xerofluvents-Riverwash complex, 0-5% slopes
Taxonomy (Subgroup): Xerofluvents
Hydric Status on NRCS Field Office List: Hydric
Drainage Class: Well
Field Observations Confirm Mapped Type? (Y) N UNK

Depth	Horizon	Matrix Color	Mottle Colors	Mottle Abundance/contrast	Texture, Concretions, Structure, Etc.

Remarks: No pit dug. Too rocky. Currently inundated. Frequently flooded (perennial flow). Sufficient hydric soils indicators.

Hydric Soil Indicators:

- [ ] Histosol
- [ ] Histic Epipedon
- [ ] Sulfidic odor
- [ ] Aquic moisture regime
- [ ] Reducing conditions
- [ ] Concretions
- [ ] Positive alpha-alpha dipyridyl test
- [ ] Gleyed or low-chroma colors
- [ ] High organic content in surface layer in sandy soil
- [ ] Organic streaking in sandy soils
- [X] Listed on local hydric soils list
- [ ] Listed on national hydric soils list
- [X] Other Frequently flooded

WETLAND DETERMINATION

Hydrophytic vegetation present? Y or (N) Wetland Hydrology Present? (Y) or N Hydric Soils Present? (Y) or N
Is this point within a wetland? Y or (N) Is this point within an "Other waters of the U.S."? (Y) or N (if yes, complete bottom of form)

Remarks: Trinity River is a perennial stream.

ACOE JURISDICTION

ACOE Jurisdiction:
[ ] Adjacent to Waters [ ] Tributary to Waters [ ] Isolated (with Interstate Commerce) [ ] Isolated (non-jurisdictional)
Explain: _____

EVALUATION OF FEATURES DESIGNATED "OTHER WATERS OF THE UNITED STATES"

Indicators:
[X] Defined Bed and Bank [X] Scour [X] Ordinary High Water Mark Mapped

Feature Designation:
[X] Perennial [ ] Intermittent [ ] Ephemeral [X] Blue-line on U.S.G.S. Topographic Map
[X] Natural Drainage [ ] Artificial Drainage [X] Navigable Water
Remarks:

DATA FORM: ROUTINE WETLAND DETERMINATION | Comm. ID: Upland | Plot ID: DP20

Project/Site: Lewiston 4 | Date: 12 April 2005
Applicant/Owner: BOR / CDFG | County: Trinity
Investigator(s): C. Boggs | State: California

Do normal circumstances exist on the site? (Y) or N Explain: Photo 25
Is the site significantly disturbed (atypical situation)? Y or (N)
Is the area a potential problem area? Y or (N)

VEGETATION

Dominant Plant Species	Cover	Stratum	Indicator
1. Pinus ponderosa	5	T	FAC
2. Pseudotsuga menziesii	5	T	NL
3. Salix exigua	15	S	OBL
4. Rubus discolor	20	S	FACW*
5. Boulder / cobble / gravel	15	N/A	N/A
6. Lupinus albicaulis	20	H	NL
7. Centaurea solstitialis	10	H	NL
8. Plantago lanceolata	5	H	FAC-
9. Trifolium hirtum	5	H	NL
10. Poa bulbosa	5	H	NL

Percent of dominant species that are OBL, FACW or FAC 1/2 = 50%

Remarks:
Insufficient hydrophytic vegetation.

HYDROLOGY

- (X) Recorded Data (Describe in Remarks)
  - ( ) stream, lake, or tide gauge
  - (X) aerial photographs
  - ( ) other
- ( ) No Recorded data available

Field Observation:
Depth of Surface Water: None (in.)
Depth to Free Water in Pit: N/A (in.)
Depth to Saturated Soil: N/A (in.)

Wetland Hydrology Indicators

Primary Indicators	Secondary Indicators
( ) inundated	( ) oxidized root channels in upper 12"
( ) saturated in upper 12"	( ) water-stained leaves
( ) water marks	(X) local soil survey data
( ) drift lines	( ) FAC-neutral test
( ) sediment deposits	( ) other (explain in remarks)
( ) drainage patterns in wetlands	

Remarks:
Insufficient wetland hydrology indicators.

SOILS

Map Unit Name (Series and Phase): 217 - Xerofluvents-Riverwash complex, 0-5% slopes
Taxonomy (Subgroup): Xerofluvents
Hydric Status on NRCS Field Office List: Hydric

Drainage Class: well
Field Observations Confirm Mapped Type? (Y) N UNK

Depth	Horizon	Matrix Color	Mottle Colors	Mottle Abundance/contrast	Texture, Concretions, Structure, Etc.

Remarks:
No pit dug. Too rocky.
Sufficient hydric soils indicators.

Hydric Soil Indicators:

- ( ) Histosol
- ( ) Histic Epipedon
- ( ) Sulfidic odor
- ( ) Aquic moisture regime
- ( ) Reducing conditions
- ( ) Concretions
- ( ) Positive alpha-alpha dipyridyl test
- ( ) Gleyed or low-chroma colors
- ( ) High organic content in surface layer in sandy soil
- ( ) Organic streaking in sandy soils
- (X) Listed on local hydric soils list
- ( ) Listed on national hydric soils list
- ( ) Other

WETLAND DETERMINATION

Hydrophytic vegetation present? Y or (N) Wetland Hydrology Present? Y or (N) Hydric Soils Present? (Y) or N
Is this point within a wetland? Y or (N) Is this point within an "Other waters of the U.S."? Y or (N) (if yes, complete bottom of form)

Remarks:
Upland data point paired to perennial stream (DP 19).

ACOE JURISDICTION

ACOE Jurisdiction:
( ) Adjacent to Waters ( ) Tributary to Waters ( ) Isolated (with Interstate Commerce) ( ) Isolated (non-jurisdictional)
Explain:

EVALUATION OF FEATURES DESIGNATED "OTHER WATERS OF THE UNITED STATES"

Indicators:
( ) Defined Bed and Bank ( ) Scour ( ) Ordinary High Water Mark Mapped

Feature Designation:
( ) Perennial ( ) Intermittent ( ) Ephemeral ( ) Blue-line on U.S.G.S. Topographic Map
( ) Natural Drainage ( ) Artificial Drainage ( ) Navigable Water
Remarks:

DATA FORM: ROUTINE WETLAND DETERMINATION | Comm. ID: Fresh Emergent Wetland | Plot ID: DP 21

Project/Site: Lewiston 4 | Date: 12 April 2005
Applicant/Owner: BOR/BLM | County: Trinity
Investigator(s): C. Boggs | State: California

Do normal circumstances exist on the site? Y or N Explain: Photo 26
Is the site significantly disturbed (atypical situation)? Y or N
Is the area a potential problem area? Y or N

VEGETATION

Dominant Plant Species	Cover	Stratum	Indicator
1. Typha latifolia	40	H	OBL
2. Juncus effusus	10	H	OBL
3. Carex praegracilis	10	H	FACW-
4. Open Water	40	N/A	N/A
5.			
6.			
7.			
8.			
9.			
10.			

Percent of dominant species that are OBL, FACW or FAC: Yes 100%

Remarks:
Sufficient hydrophytic vegetation

HYDROLOGY

- [x] Recorded Data (Describe in Remarks)
  - [ ] stream, lake, or tide gauge
  - [x] aerial photographs
  - [ ] other
- [ ] No Recorded data available

Field Observation:
Depth of Surface Water: >6 (in.)
Depth to Free Water in Pit: N/A (in.)
Depth to Saturated Soil: N/A (in.)

Wetland Hydrology Indicators

Primary Indicators	Secondary Indicators
[x] inundated	[ ] oxidized root channels in upper 12"
[x] saturated in upper 12"	[ ] water-stained leaves
[x] water marks	[ ] local soil survey data
[ ] drift lines	[ ] FAC-neutral test
[x] sediment deposits	[ ] other (explain in remarks)
[ ] drainage patterns in wetlands	

Remarks:
Sufficient wetland hydrology indicators.

SOILS

Map Unit Name (Series and Phase): 102 - Xerofluvents - Alter, Dumps, Dredge Tailings Complex, 2-9% slopes
Taxonomy (Subgroup): Xerofluvents
Hydric Status on NRCS Field Office List: Non-hydric with hydric inclusions

Drainage Class: Well
Field Observations Confirm Mapped Type? (Y) N UNK

Depth	Horizon	Matrix Color	Mottle Colors	Mottle Abundance/contrast	Texture, Concretions, Structure, Etc.

Remarks:
No pit dug. Too rocky.
Sufficient hydric soils indicators.

Hydric Soil Indicators:

- [ ] Histosol
- [ ] Histic Epipedon
- [ ] Sulfidic odor
- [ ] Aquic moisture regime
- [ ] Reducing conditions
- [ ] Concretions
- [ ] Positive alpha-alpha dipyridyl test
- [ ] Gleyed or low-chroma colors
- [ ] High organic content in surface layer in sandy soil
- [ ] Organic streaking in sandy soils
- [ ] Listed on local hydric soils list
- [ ] Listed on national hydric soils list
- [x] Other: Frequently flooded

WETLAND DETERMINATION

Hydrophytic vegetation present? (Y) or N Wetland Hydrology Present? (Y) or N Hydric Soils Present? (Y) or N
Is this point within a wetland? (Y) or N Is this point within an "Other waters of the U.S."? Y or (N) (if yes, complete bottom of form)

Remarks:

ACOE JURISDICTION

ACOE Jurisdiction:
- [x] Adjacent to Waters
- [ ] Tributary to Waters
- [ ] Isolated (with Interstate Commerce)
- [ ] Isolated (non-jurisdictional)

Explain:

EVALUATION OF FEATURES DESIGNATED "OTHER WATERS OF THE UNITED STATES"

Indicators:
- [ ] Defined Bed and Bank
- [ ] Scour
- [ ] Ordinary High Water Mark Mapped

Feature Designation:
- [ ] Perennial
- [ ] Intermittent
- [ ] Ephemeral
- [ ] Blue-line on U.S.G.S. Topographic Map
- [ ] Natural Drainage
- [ ] Artificial Drainage
- [ ] Navigable Water

Remarks:

DATA FORM: ROUTINE WETLAND DETERMINATION | Comm. ID: Upland | Plot ID: DP 22

Project/Site: Lewiston 4 | Date: 12 April 2005
Applicant/Owner: BOR/BLM | County: Trinity
Investigator(s): C. Boggs | State: California
Do normal circumstances exist on the site? (Y) or N Explain: Photo 26
Is the site significantly disturbed (atypical situation)? Y or (N)
Is the area a potential problem area? Y or (N)

VEGETATION

Dominant Plant Species	Cover	Stratum	Indicator
1. Rubus discolor	5	S	FACW*
2. Poa bulbosa	30	H	NL
3. Elymus glaucus	25	H	FACU
4. Galium aparine	20	H	FACU
5. Centaurea solstitialis	20	H	NL
6.			
7.			
8.			
9.			
10.			

Percent of dominant species that are OBL, FACW or FAC: 1/4 = 0%

Remarks:
Insufficient hydrophytic vegetation.

HYDROLOGY

- (X) Recorded Data (Describe in Remarks)
  - ☐ stream, lake, or tide gauge
  - (X) aerial photographs
  - ☐ other
- ☐ No Recorded data available

Field Observation:
Depth of Surface Water: None (in.)
Depth to Free Water in Pit: N/A (in.)
Depth to Saturated Soil: N/A (in.)

Wetland Hydrology Indicators

Primary Indicators	Secondary Indicators
☐ inundated	☐ oxidized root channels in upper 12"
☐ saturated in upper 12"	☐ water-stained leaves
☐ water marks	☐ local soil survey data
☐ drift lines	☐ FAC-neutral test
☐ sediment deposits	☐ other (explain in remarks)
☐ drainage patterns in wetlands	

Remarks:

SOILS

Map Unit Name (Series and Phase): 102 - Xerofluvents - Atter, Dumps, Dodge Tailings complex, 2-20% slopes | Drainage Class: Well
Taxonomy (Subgroup): Xerofluvents | Field Observations Confirm Mapped Type? (Y) N UNK
Hydric Status on NRCS Field Office List: Non-hydric with hydric inclusions

Depth	Horizon	Matrix Color	Mottle Colors	Mottle Abundance/contrast	Texture, Concretions, Structure, Etc.

Remarks:
No pit dug. Too rocky.

Hydric Soil Indicators:

- ☐ Histosol
- ☐ Histic Epipedon
- ☐ Sulfidic odor
- ☐ Aquic moisture regime
- ☐ Reducing conditions
- ☐ Concretions
- ☐ Positive alpha-alpha dipyridyl test
- ☐ Gleyed or low-chroma colors
- ☐ High organic content in surface layer in sandy soil
- ☐ Organic streaking in sandy soils
- ☐ Listed on local hydric soils list
- ☐ Listed on national hydric soils list
- ☐ Other

WETLAND DETERMINATION

Hydrophytic vegetation present? Y or (N) Wetland Hydrology Present? Y or (N) Hydric Soils Present? Y or N
Is this point within a wetland? Y or (N) Is this point within an "Other waters of the U.S."? Y or (N) (if yes, complete bottom of form)

Remarks:
Upland data point paired to fresh emergent wetland (DP 21).

ACOE JURISDICTION

ACOE Jurisdiction:
☐ Adjacent to Waters ☐ Tributary to Waters ☐ Isolated (with Interstate Commerce) ☐ Isolated (non-jurisdictional)
Explain:

EVALUATION OF FEATURES DESIGNATED "OTHER WATERS OF THE UNITED STATES"

Indicators:
☐ Defined Bed and Bank ☐ Scour ☐ Ordinary High Water Mark Mapped

Feature Designation:
☐ Perennial ☐ Intermittent ☐ Ephemeral ☐ Blue-line on U.S.G.S. Topographic Map
☐ Natural Drainage ☐ Artificial Drainage ☐ Navigable Water
Remarks:

DATA FORM: ROUTINE WETLAND DETERMINATION | Comm. ID: Perennial Stream | Plot ID: DP23

Project/Site: Dark Gulch | Date: 12 April 2005
Applicant/Owner: BOR/Private | County: Trinity
Investigator(s): C. Boggs | State: California
Do normal circumstances exist on the site? Y or N Explain: Photo 27
Is the site significantly disturbed (atypical situation)? Y or N
Is the area a potential problem area? Y or N

VEGETATION

Dominant Plant Species	Cover	Stratum	Indicator
1. Boulder/Cobble/gravel	75	N/A	N/A
2. Hypochaeris glabra	5	H	NL
3. Grayophylum diffusum	5	H	NL
4. Erodium botrys	5	H	NL
5. Aira caryophyllea	5	H	NL
6. Bromus tectorum	5	H	NL
7.			
8.			
9.			
10.			

Percent of dominant species that are OBL, FACW or FAC: N/A

Remarks: A thin band of riparian vegetation occurs along banks, otherwise, feature is scoured from perennial flow in center and frequent flow near OHWM.

HYDROLOGY

- [x] Recorded Data (Describe in Remarks)
  - [ ] stream, lake, or tide gauge
  - [x] aerial photographs
  - [ ] other
- [ ] No Recorded data available

Field Observation:
Depth of Surface Water: None (in.)
Depth to Free Water in Pit: N/A (in.)
Depth to Saturated Soil: N/A (in.)

Wetland Hydrology Indicators

Primary Indicators	Secondary Indicators
[ ] inundated	[ ] oxidized root channels in upper 12"
[ ] saturated in upper 12"	[ ] water-stained leaves
[ ] water marks	[x] local soil survey data
[x] drift lines	[ ] FAC-neutral test
[x] sediment deposits	[ ] other (explain in remarks)
[x] drainage patterns in wetlands	

Remarks: Water is flowing in stream. However, data point location represents OHWM. Sufficient wetland hydrology indicators.

SOILS

Map Unit Name (Series and Phase): 217-Xerorthents-Riverwash complex, 0-5% slopes
Taxonomy (Subgroup): Xerorthents
Hydric Status on NRCS Field Office List: Hydric
Drainage Class: Well
Field Observations Confirm Mapped Type? Y N UNK

Depth	Horizon	Matrix Color	Mottle Colors	Mottle Abundance/contrast	Texture, Concretions, Structure, Etc.

Remarks: No pit dug. Too rocky. Sufficient hydric soils indicators.

Hydric Soil Indicators:		[ ]	Positive alpha-alpha dipyridyl test
[ ]	Histosol	[ ]	Gleyed or low-chroma colors
[ ]	Histic Epipedon	[ ]	High organic content in surface layer in sandy soil
[ ]	Sulfidic odor	[ ]	Organic streaking in sandy soils
[ ]	Aquic moisture regime	[x]	Listed on local hydric soils list
[ ]	Reducing conditions	[ ]	Listed on national hydric soils list
[ ]	Concretions	[x]	Other Frequently flooded

WETLAND DETERMINATION

Hydrophytic vegetation present? Y or N Wetland Hydrology Present? Y or N Hydric Soils Present? Y or N
Is this point within a wetland? Y or N Is this point within an "Other waters of the U.S."? Y or N (if yes, complete bottom of form)

Remarks: Trinity River is a perennial stream.

ACOE JURISDICTION

ACOE Jurisdiction:
[ ] Adjacent to Waters [ ] Tributary to Waters [ ] Isolated (with Interstate Commerce) [ ] Isolated (non-jurisdictional)
Explain:

EVALUATION OF FEATURES DESIGNATED "OTHER WATERS OF THE UNITED STATES"

Indicators:
[x] Defined Bed and Bank [x] Scour [x] Ordinary High Water Mark Mapped

Feature Designation:
[x] Perennial [ ] Intermittent [ ] Ephemeral [x] Blue-line on U.S.G.S. Topographic Map
[x] Natural Drainage [ ] Artificial Drainage [x] Navigable Water

Remarks:

DATA FORM: ROUTINE WETLAND DETERMINATION | Comm. ID: Upland | Plot ID: DP24

Project/Site: Dark Gulch | Date: 12 April 2005
Applicant/Owner: BOR/Private | County: Trinity
Investigator(s): C. Boggs | State: California

Do normal circumstances exist on the site? (Y) or N Explain: Photo 27
Is the site significantly disturbed (atypical situation)? Y or (N)
Is the area a potential problem area? Y or (N)

VEGETATION

Dominant Plant Species	Cover	Stratum	Indicator
1. Salix lasiolepis	15	S	FACW
2. Bromus tectorum	30	H	NL
3. Hypochaeris glabla	20	H	NL
4. Erodium botrys	10	H	NL
5. Gayophytum diffusum	10	H	NL
6. Linaria genistifolia	10	H	NL
7. cobble/gravel/sand	5	N/A	N/A
8.			
9.			
10.			

Percent of dominant species that are OBL, FACW or FAC 0/2 = 0%

Remarks:
Insufficient hydrophytic vegetation.

HYDROLOGY

- [x] Recorded Data (Describe in Remarks)
  - [ ] stream, lake, or tide gauge
  - [x] aerial photographs
  - [ ] other
- [ ] No Recorded data available

Field Observation:
Depth of Surface Water: None (in.)
Depth to Free Water in Pit: None (in.)
Depth to Saturated Soil: Not Saturated (in.)

Wetland Hydrology Indicators

Primary Indicators	Secondary Indicators
☐ Inundated	☐ oxidized root channels in upper 12"
☐ saturated in upper 12"	☐ water-stained leaves
☐ water marks	☒ local soil survey data
☐ drift lines	☐ FAC-neutral test
☐ sediment deposits	☐ other (explain in remarks)
☐ drainage patterns in wetlands	

Remarks:
Insufficient wetland hydrology indicators.

SOILS

Map Unit Name (Series and Phase): 217-Xerosthents-Riversmash complex, 0-5% slopes
Taxonomy (Subgroup): Xerosthents
Hydric Status on NRCS Field Office List: Hydric
Drainage Class: Well
Field Observations Confirm Mapped Type? (Y) N UNK

Depth	Horizon	Matrix Color	Mottle Colors	Mottle Abundance/contrast	Texture, Concretions, Structure, Etc.
0-6"	—	10YR 3/2	N/A	N/A	cobbly gravelly sand

Remarks:
Sufficient hydric soils indicator.

Hydric Soil Indicators:

- ☐ Histosol
- ☐ Histic Epipedon
- ☐ Sulfidic odor
- ☐ Aquic moisture regime
- ☐ Reducing conditions
- ☐ Concretions
- ☐ Positive alpha-alpha dipyridyl test
- ☐ Gleyed or low-chroma colors
- ☐ High organic content in surface layer in sandy soil
- ☐ Organic streaking in sandy soils
- ☒ Listed on local hydric soils list
- ☐ Listed on national hydric soils list
- ☐ Other

WETLAND DETERMINATION

Hydrophytic vegetation present? Y or (N) Wetland Hydrology Present? Y or (N) Hydric Soils Present? (Y) or N
Is this point within a wetland? Y or (N) Is this point within an "Other waters of the U.S."? Y or (N) (if yes, complete bottom of form)

Remarks:
Upland data point paired to perennial stream (DP 23).

ACOE JURISDICTION

ACOE Jurisdiction:
☐ Adjacent to Waters ☐ Tributary to Waters ☐ Isolated (with Interstate Commerce) ☐ Isolated (non-jurisdictional)
Explain:

EVALUATION OF FEATURES DESIGNATED "OTHER WATERS OF THE UNITED STATES"

Indicators:
☐ Defined Bed and Bank ☐ Scour ☐ Ordinary High Water Mark Mapped

Feature Designation:
☐ Perennial ☐ Intermittent ☐ Ephemeral ☐ Blue-line on U.S.G.S. Topographic Map
☐ Natural Drainage ☐ Artificial Drainage ☐ Navigable Water
Remarks:

DATA FORM: ROUTINE WETLAND DETERMINATION | Comm. ID: Riparian/Fresh Emergent Wetland | Plot ID: DP 25

Project/Site: Dark Gulch | Date: 12 April 2005
Applicant/Owner: BOR/Private | County: Trinity
Investigator(s): C. Boggs | State: California

Do normal circumstances exist on the site? (Y) or N Explain: Photo 28
Is the site significantly disturbed (atypical situation)? Y or (N)
Is the area a potential problem area? Y or (N)

VEGETATION

Dominant Plant Species	Cover	Stratum	Indicator
1. Salix geeddingii	10	T	OBL
2. Typha latifolia	40	H	OBL
3. Open Water	30	N/A	N/A
4. Salix lasiolepis	10	S	FACW
5. Rubus discolor	10	S	FACW*
6.			
7.			
8.			
9.			
10.			

Percent of dominant species that are OBL, FACW or FAC 4/4 = 100%

Remarks: Sufficient hydrophytic vegetation. Cattails dominate southern half of feature.

HYDROLOGY

- [x] Recorded Data (Describe in Remarks)
  - [ ] stream, lake, or tide gauge
  - [x] aerial photographs
  - [ ] other _____
- [ ] No Recorded data available

Field Observation:
Depth of Surface Water: 10 (in.)
Depth to Free Water in Pit: N/A (in.)
Depth to Saturated Soil: N/A (in.)

Wetland Hydrology Indicators

Primary Indicators	Secondary Indicators
[x] inundated	[ ] oxidized root channels in upper 12"
[x] saturated in upper 12"	[x] water-stained leaves
[ ] water marks	[ ] local soil survey data
[ ] drift lines	[ ] FAC-neutral test
[x] sediment deposits	[ ] other (explain in remarks)
[ ] drainage patterns in wetlands	

Remarks: Sufficient wetland hydrology indicators.

SOILS

Map Unit Name (Series and Phase): 102-Xerofluvents-Altered dumps, dredge tailings, complex, 2-9% slopes
Taxonomy (Subgroup): Xerofluvents
Hydric Status on NRCS Field Office List: Non-hydric w/hydric inclusions
Drainage Class: Well
Field Observations Confirm Mapped Type? (Y) N UNK

Depth	Horizon	Matrix Color	Mottle Colors	Mottle Abundance/contrast	Texture, Concretions, Structure, Etc.

Remarks: No pit dug. Feature is inundated. Sufficient hydric soils indicator.

Hydric Soil Indicators:

- [ ] Histosol
- [ ] Histic Epipedon
- [ ] Sulfidic odor
- [ ] Aquic moisture regime
- [ ] Reducing conditions
- [ ] Concretions
- [ ] Positive alpha-alpha dipyridyl test
- [ ] Gleyed or low-chroma colors
- [ ] High organic content in surface layer in sandy soil
- [ ] Organic streaking in sandy soils
- [ ] Listed on local hydric soils list
- [ ] Listed on national hydric soils list
- [x] Other frequently ponded

WETLAND DETERMINATION

Hydrophytic vegetation present? (Y) or N Wetland Hydrology Present? (Y) or N Hydric Soils Present? (Y) or N
Is this point within a wetland? (Y) or N Is this point within an "Other waters of the U.S."? Y or (N) (if yes, complete bottom of form)

Remarks: Wetland is located in the middle of large tailings pile.

ACOE JURISDICTION

ACOE Jurisdiction:
- [x] Adjacent to Waters
- [ ] Tributary to Waters
- [ ] Isolated (with Interstate Commerce)
- [ ] Isolated (non-jurisdictional)

Explain: _____

EVALUATION OF FEATURES DESIGNATED "OTHER WATERS OF THE UNITED STATES"

Indicators:
- [ ] Defined Bed and Bank
- [ ] Scour
- [ ] Ordinary High Water Mark Mapped

Feature Designation:
- [ ] Perennial
- [ ] Intermittent
- [ ] Ephemeral
- [ ] Blue-line on U.S.G.S. Topographic Map
- [ ] Natural Drainage
- [ ] Artificial Drainage
- [ ] Navigable Water

Remarks:

DATA FORM: ROUTINE WETLAND DETERMINATION | Comm. ID: Upland | Plot ID: DP26

Project/Site: Dark Gulch | Date: 12 April 2005
Applicant/Owner: BOR/Private | County: Trinity
Investigator(s): C. Boggs | State: California
Do normal circumstances exist on the site? (Y) or N Explain: Photo 28
Is the site significantly disturbed (atypical situation)? Y or (N)
Is the area a potential problem area? Y or (N)

VEGETATION

Dominant Plant Species	Cover	Stratum	Indicator
1. Salix lasiolepis	15	S	FACW
2. Rubus discolor	20	S	FACW*
3. Rosa californica	20	S	FAC+
4. Bromus tectorum	20	H	NL
5. Conium maculatum	5	H	FACW
6. Centaurea solstitialis	10	H	NL
7. Artemisia douglasiana	5	H	FACW
8. cobbles	5	N/A	N/A
9.			
10.			

Percent of dominant species that are OBL, FACW or FAC 2/3 = 66%

Remarks:
Sufficient hydrophytic vegetation.

HYDROLOGY

- [x] Recorded Data (Describe in Remarks)
  - [ ] stream, lake, or tide gauge
  - [x] aerial photographs
  - [ ] other
- [ ] No Recorded data available

Field Observation:
Depth of Surface Water: None (in.)
Depth to Free Water in Pit: N/A (in.)
Depth to Saturated Soil: N/A (in.)

Wetland Hydrology Indicators

Primary Indicators	Secondary Indicators
☐ inundated	☐ oxidized root channels in upper 12"
☐ saturated in upper 12"	☐ water-stained leaves
☐ water marks	☐ local soil survey data
☐ drift lines	☐ FAC-neutral test
☐ sediment deposits	☐ other (explain in remarks)
☐ drainage patterns in wetlands	

Remarks:
No wetland hydrology indicators.

SOILS

Map Unit Name (Series and Phase): 102 - Xerofluvents - Alter, Dumps, Dredge Tailings complex, 2-9% slopes
Taxonomy (Subgroup): Xerofluvents
Hydric Status on NRCS Field Office List: Non-hydric with hydric inclusions
Drainage Class: well
Field Observations Confirm Mapped Type? (Y) N UNK

Depth	Horizon	Matrix Color	Mottle Colors	Mottle Abundance/contrast	Texture, Concretions, Structure, Etc.

Remarks:
No pit dug. Too rocky.
No hydric soils indicators.

Hydric Soil Indicators:

- ☐ Histosol
- ☐ Histic Epipedon
- ☐ Sulfidic odor
- ☐ Aquic moisture regime
- ☐ Reducing conditions
- ☐ Concretions
- ☐ Positive alpha-alpha dipyridyl test
- ☐ Gleyed or low-chroma colors
- ☐ High organic content in surface layer in sandy soil
- ☐ Organic streaking in sandy soils
- ☐ Listed on local hydric soils list
- ☐ Listed on national hydric soils list
- ☐ Other

WETLAND DETERMINATION

Hydrophytic vegetation present? (Y) or N Wetland Hydrology Present? Y or (N) Hydric Soils Present? Y or (N)
Is this point within a wetland? Y or (N) Is this point within an "Other waters of the U.S."? Y or (N) (if yes, complete bottom of form)

Remarks:
Upland data point paired to riparian/fresh emergent wetland (DP25).

ACOE JURISDICTION

ACOE Jurisdiction:
☐ Adjacent to Waters ☐ Tributary to Waters ☐ Isolated (with Interstate Commerce) ☐ Isolated (non-jurisdictional)
Explain:

EVALUATION OF FEATURES DESIGNATED "OTHER WATERS OF THE UNITED STATES"

Indicators:
☐ Defined Bed and Bank ☐ Scour ☐ Ordinary High Water Mark Mapped

Feature Designation:
☐ Perennial ☐ Intermittent ☐ Ephemeral ☐ Blue-line on U.S.G.S. Topographic Map
☐ Natural Drainage ☐ Artificial Drainage ☐ Navigable Water
Remarks:

DATA FORM: ROUTINE WETLAND DETERMINATION | Comm. ID: Pond / Open Water | Plot ID: DP27

Project/Site: Dark Gulch | Date: 12 April 2005
Applicant/Owner: BOR / Private | County: Trinity
Investigator(s): C. Boggs | State: California

Do normal circumstances exist on the site? (Y) or N Explain: Photo 29
Is the site significantly disturbed (atypical situation)? Y or (N)
Is the area a potential problem area? Y or (N)

VEGETATION

Dominant Plant Species	Cover	Stratum	Indicator
1.			
2.			
3.			
4.			
5.			
6.			
7.			
8.			
9.			
10.			

Percent of dominant species that are OBL, FACW or FAC N/A

Remarks: No vegetation present, except fringe of cattails.

HYDROLOGY

- [x] Recorded Data (Describe in Remarks)
  - [ ] stream, lake, or tide gauge
  - [x] aerial photographs
  - [ ] other _____
- [ ] No Recorded data available

Field Observation:
Depth of Surface Water: >12 (in.)
Depth to Free Water in Pit: N/A (in.)
Depth to Saturated Soil: N/A (in.)

Wetland Hydrology Indicators

Primary Indicators	Secondary Indicators
[x] Inundated	[ ] oxidized root channels in upper 12"
[x] saturated in upper 12"	[ ] water-stained leaves
[x] water marks	[ ] local soil survey data
[ ] drift lines	[ ] FAC-neutral test
[x] sediment deposits	[ ] other (explain in remarks)
[ ] drainage patterns in wetlands	

Remarks: Sufficient wetland hydrology indicators.

SOILS

Map Unit Name (Series and Phase): 102 - Xerofluvents - Alter, Dumps, Dredge Tailings complex, 2-15% slopes
Taxonomy (Subgroup): Xerofluvents
Hydric Status on NRCS Field Office List: Non-hydric w/ hydric inclusions
Drainage Class: Well
Field Observations Confirm Mapped Type? (Y) N UNK

Depth	Horizon	Matrix Color	Mottle Colors	Mottle Abundance/contrast	Texture, Concretions, Structure, Etc.

Hydric Soil Indicators:

- [ ] Histosol
- [ ] Histic Epipedon
- [ ] Sulfidic odor
- [ ] Aquic moisture regime
- [ ] Reducing conditions
- [ ] Concretions
- [ ] Positive alpha-alpha dipyridyl test
- [ ] Gleyed or low-chroma colors
- [ ] High organic content in surface layer in sandy soil
- [ ] Organic streaking in sandy soils
- [ ] Listed on local hydric soils list
- [ ] Listed on national hydric soils list
- [x] Other Frequently ponded

Remarks: Currently inundated and depicted as such on 2001 aerial. Frequently ponded for very long-duration. Sufficient hydric soils indicators.

WETLAND DETERMINATION

Hydrophytic vegetation present? Y or (N) Wetland Hydrology Present? (Y) or N Hydric Soils Present? (Y) or N
Is this point within a wetland? Y or (N) Is this point within an "Other waters of the U.S."? (Y) or N (If yes, complete bottom of form)

Remarks:

ACOE JURISDICTION

ACOE Jurisdiction:
(X) Adjacent to Waters ( ) Tributary to Waters ( ) Isolated (with Interstate Commerce) ( ) Isolated (non-jurisdictional)
Explain: Adjacent to Trinity River

EVALUATION OF FEATURES DESIGNATED "OTHER WATERS OF THE UNITED STATES"

Indicators:
( ) Defined Bed and Bank ( ) Scour (X) Ordinary High Water Mark Mapped

Feature Designation:
( ) Perennial ( ) Intermittent ( ) Ephemeral ( ) Blue-line on U.S.G.S. Topographic Map
( ) Natural Drainage ( ) Artificial Drainage ( ) Navigable Water

Remarks:

DATA FORM: ROUTINE WETLAND DETERMINATION | Comm. ID: Fresh Emergent Wetland | Plot ID: DP 28

Project/Site: Dark Gulch | Date: 12 April 2005
Applicant/Owner: BOR/Private | County: Trinity
Investigator(s): C. Boggs | State: California

Do normal circumstances exist on the site? (Y) or N Explain: Photo 29
Is the site significantly disturbed (atypical situation)? Y or (N)
Is the area a potential problem area? Y or (N)

VEGETATION

Dominant Plant Species	Cover	Stratum	Indicator
1. Typha latifolia	95	H	OBL
2. Open water	5	N/A	N/A
3.			
4.			
5.			
6.			
7.			
8.			
9.			
10.			

Percent of dominant species that are OBL, FACW or FAC 1/1 = 100%

Remarks:
Sufficient hydrophytic vegetation.

HYDROLOGY

- [x] Recorded Data (Describe in Remarks)
  - [ ] stream, lake, or tide gauge
  - [x] aerial photographs
  - [ ] other _____
- [ ] No Recorded data available

Field Observation:
Depth of Surface Water: 4-6 (in.)
Depth to Free Water in Pit: N/A (in.)
Depth to Saturated Soil: N/A (in.)

Wetland Hydrology Indicators

Primary Indicators	Secondary Indicators
[x] inundated	[ ] oxidized root channels in upper 12"
[x] saturated in upper 12"	[ ] water-stained leaves
[x] water marks	[ ] local soil survey data
[ ] drift lines	[x] FAC-neutral test
[x] sediment deposits	[ ] other (explain in remarks)
[ ] drainage patterns in wetlands	

Remarks:
Sufficient wetland hydrology indicators.

SOILS

Map Unit Name (Series and Phase): 102-Xerofluvents-Arter, Dumps, Dredge Tailings complex, 2-9% slopes
Taxonomy (Subgroup): Xerofluvents
Hydric Status on NRCS Field Office List: Non-hydric w/ hydric inclusions
Drainage Class: Well
Field Observations Confirm Mapped Type? (Y) N UNK

Depth	Horizon	Matrix Color	Mottle Colors	Mottle Abundance/contrast	Texture, Concretions, Structure, Etc.

Hydric Soil Indicators:

- [ ] Histosol
- [ ] Histic Epipedon
- [ ] Sulfidic odor
- [ ] Aquic moisture regime
- [ ] Reducing conditions
- [ ] Concretions
- [ ] Positive alpha-alpha dipyridyl test
- [ ] Gleyed or low-chroma colors
- [ ] High organic content in surface layer in sandy soil
- [ ] Organic streaking in sandy soils
- [ ] Listed on local hydric soils list
- [ ] Listed on national hydric soils list
- [x] Other Frequently Ponded

Remarks:
Currently inundated indicating area is frequently ponded for long-duration.
Sufficient hydric soils indicator.

WETLAND DETERMINATION

Hydrophytic vegetation present? (Y) or N Wetland Hydrology Present? (Y) or N Hydric Soils Present? (Y) or N
Is this point within a wetland? (Y) or N Is this point within an "Other waters of the U.S."? Y or (N) (if yes, complete bottom of form)

Remarks:

ACOE JURISDICTION

ACOE Jurisdiction:
- [x] Adjacent to Waters
- [ ] Tributary to Waters
- [ ] Isolated (with Interstate Commerce)
- [ ] Isolated (non-jurisdictional)

Explain: Adjacent to Trinity River

EVALUATION OF FEATURES DESIGNATED "OTHER WATERS OF THE UNITED STATES"

Indicators:
- [ ] Defined Bed and Bank
- [ ] Scour
- [ ] Ordinary High Water Mark Mapped

Feature Designation:
- [ ] Perennial
- [ ] Intermittent
- [ ] Ephemeral
- [ ] Blue-line on U.S.G.S. Topographic Map
- [ ] Natural Drainage
- [ ] Artificial Drainage
- [ ] Navigable Water

Remarks:

DATA FORM: ROUTINE WETLAND DETERMINATION | Comm. ID: Upland | Plot ID: DP29

Project/Site: Dark Gulch
Applicant/Owner: BOR / Private
Investigator(s): C. Boggs
Date: 12 April 2005
County: Trinity
State: California

Do normal circumstances exist on the site? (Y) or N Explain: Photo 29
Is the site significantly disturbed (atypical situation)? Y or (N)
Is the area a potential problem area? Y or (N)

VEGETATION

Dominant Plant Species	Cover	Stratum	Indicator
1. Centaurea	40		
2. Erodium	30		
3. Taeniatherum	20		
4. Trifolium hirtum	10		
5.			
6.			
7.			
8.			
9.			
10.			

Percent of dominant species that are OBL, FACW or FAC _____

Remarks:

HYDROLOGY

- [X] Recorded Data (Describe in Remarks)
  - [ ] stream, lake, or tide gauge
  - [X] aerial photographs
  - [ ] other _____
- [ ] No Recorded data available

Field Observation:
Depth of Surface Water: None (in.)
Depth to Free Water in Pit: None (in.)
Depth to Saturated Soil: Not Saturated (in.)

Wetland Hydrology Indicators

Primary Indicators	Secondary Indicators
[ ] inundated	[ ] oxidized root channels in upper 12"
[ ] saturated in upper 12"	[ ] water-stained leaves
[ ] water marks	[ ] local soil survey data
[ ] drift lines	[ ] FAC-neutral test
[ ] sediment deposits	[ ] other (explain in remarks)
[ ] drainage patterns in wetlands	

Remarks:
No wetland hydrology indicators.

SOILS

Map Unit Name (Series and Phase): 102 - Xerofluvents-Aitter, Dumps, Dredge Tailings Complex, 2-9% slopes
Taxonomy (Subgroup): Xerofluvents
Hydric Status on NRCS Field Office List: Non-hydric w/ hydric inclusions
Drainage Class: Well
Field Observations Confirm Mapped Type? (Y) N UNK

Depth	Horizon	Matrix Color	Mottle Colors	Mottle Abundance/contrast	Texture, Concretions, Structure, Etc.
0-6"	-	10YR 3/2	N/A	N/A	cobbly sandy loam

Remarks:
No hydric soils indicators.

Hydric Soil Indicators:

- [ ] Histosol
- [ ] Histic Epipedon
- [ ] Sulfidic odor
- [ ] Aquic moisture regime
- [ ] Reducing conditions
- [ ] Concretions
- [ ] Positive alpha-alpha dipyridyl test
- [ ] Gleyed or low-chroma colors
- [ ] High organic content in surface layer in sandy soil
- [ ] Organic streaking in sandy soils
- [ ] Listed on local hydric soils list
- [ ] Listed on national hydric soils list
- [ ] Other _____

WETLAND DETERMINATION

Hydrophytic vegetation present? Y or (N) Wetland Hydrology Present? Y or (N) Hydric Soils Present? Y or (N)
Is this point within a wetland? Y or (N) Is this point within an "Other waters of the U.S."? Y or (N) (If yes, complete bottom of form)

Remarks:
Upland data paired to fresh emergent wetland (DP 28).

ACOE JURISDICTION

ACOE Jurisdiction:
[ ] Adjacent to Waters [ ] Tributary to Waters [ ] Isolated (with Interstate Commerce) [ ] Isolated (non-jurisdictional)
Explain: _____

EVALUATION OF FEATURES DESIGNATED "OTHER WATERS OF THE UNITED STATES"

Indicators:
[ ] Defined Bed and Bank [ ] Scour [ ] Ordinary High Water Mark Mapped

Feature Designation:
[ ] Perennial [ ] Intermittent [ ] Ephemeral [ ] Blue-line on U.S.G.S. Topographic Map
[ ] Natural Drainage [ ] Artificial Drainage [ ] Navigable Water
Remarks:

DATA FORM: ROUTINE WETLAND DETERMINATION | Comm. ID: Perennial Stream | Plot ID: DP 30

Project/Site: Dark Gulch | Date: 12 April 2005
Applicant/Owner: BOR / Private | County: Trinity
Investigator(s): C. Boggs | State: California

Do normal circumstances exist on the site? (Y) or N Explain: Photo 30
Is the site significantly disturbed (atypical situation)? Y or (N)
Is the area a potential problem area? Y or (N)

VEGETATION

Dominant Plant Species	Cover	Stratum	Indicator
1. Salix exigua	20	S	OBL
2. Plantago lanceolata	25	H	FAC-
3. Mentha spicata	10	H	
4. Holcus lanatus	10	H	
5. Cyperus eragrostis	10	H	
6. Cobble/gravel	10	N/A	N/A
7. Rubus discolor	10	S	FACW*
8. Equisetum laevigatum	5	H	
9.			
10.			

Percent of dominant species that are OBL, FACW or FAC 4/5 = 100%

Remarks: Hydrophytic vegetation within OHWM of river.

HYDROLOGY

- [X] Recorded Data (Describe in Remarks)
  - [ ] stream, lake, or tide gauge
  - [X] aerial photographs
  - [ ] other
- [ ] No Recorded data available

Field Observation:
Depth of Surface Water: 1 (in.)
Depth to Free Water in Pit: N/A (in.)
Depth to Saturated Soil: N/A (in.)

Wetland Hydrology Indicators

Primary Indicators	Secondary Indicators
[X] inundated	[ ] oxidized root channels in upper 12"
[X] saturated in upper 12"	[ ] water-stained leaves
[X] water marks	[X] local soil survey data
[X] drift lines	[ ] FAC-neutral test
[X] sediment deposits	[ ] other (explain in remarks)
[X] drainage patterns in wetlands	

Remarks: Sufficient wetland hydrology indicators.

SOILS

Map Unit Name (Series and Phase): 217 - Xerofluvents-Riverwash complex, 0-5% slopes
Taxonomy (Subgroup): Xerofluvents
Hydric Status on NRCS Field Office List: Hydric
Drainage Class: well
Field Observations Confirm Mapped Type? (Y) N UNK

Depth	Horizon	Matrix Color	Mottle Colors	Mottle Abundance/contrast	Texture, Concretions, Structure, Etc.

Remarks: No pit dug. Too rocky.

Hydric Soil Indicators:

- [ ] Histosol
- [ ] Histic Epipedon
- [ ] Sulfidic odor
- [ ] Aquic moisture regime
- [ ] Reducing conditions
- [ ] Concretions
- [ ] Positive alpha-alpha dipyridyl test
- [ ] Gleyed or low-chroma colors
- [ ] High organic content in surface layer in sandy soil
- [ ] Organic streaking in sandy soils
- [X] Listed on local hydric soils list
- [ ] Listed on national hydric soils list
- [X] Other Frequently flooded

WETLAND DETERMINATION

Hydrophytic vegetation present? (Y) or N Wetland Hydrology Present? (Y) or N Hydric Soils Present? (Y) or N
Is this point within a wetland? Y or (N) Is this point within an "Other waters of the U.S."? (Y) or N (if yes, complete bottom of form)

Remarks: Trinity River is a perennial stream.

ACOE JURISDICTION

ACOE Jurisdiction:
[ ] Adjacent to Waters [ ] Tributary to Waters [ ] Isolated (with Interstate Commerce) [ ] Isolated (non-jurisdictional)
Explain:

EVALUATION OF FEATURES DESIGNATED "OTHER WATERS OF THE UNITED STATES"

Indicators:
[X] Defined Bed and Bank [X] Scour [X] Ordinary High Water Mark Mapped

Feature Designation:
[X] Perennial [ ] Intermittent [ ] Ephemeral [X] Blue-line on U.S.G.S. Topographic Map
[X] Natural Drainage [ ] Artificial Drainage [X] Navigable Water
Remarks:

DATA FORM: ROUTINE WETLAND DETERMINATION | Comm. ID: Upland | Plot ID: DP31

Project/Site: Dark Gulch | Date: 12 April 2005
Applicant/Owner: BoR/Private | County: Trinity
Investigator(s): C. Boggs | State: California
Do normal circumstances exist on the site? (Y) or N Explain: Photo 30
Is the site significantly disturbed (atypical situation)? Y or (N)
Is the area a potential problem area? Y or (N)

VEGETATION

Dominant Plant Species	Cover	Stratum	Indicator
1. Ceanothus cuneatus	30	S	NL
2. Garrya fremontii	30	S	NL
3. Avena fatua	20	H	NL
4. Lathyrus latifolia	20	H	NL
5.			
6.			
7.			
8.			
9.			
10.			

Percent of dominant species that are OBL, FACW or FAC 0/4 = 0%

Remarks: Insufficient hydrophytic vegetation.

HYDROLOGY

- [x] Recorded Data (Describe in Remarks)
  - [ ] stream, lake, or tide gauge
  - [x] aerial photographs
  - [ ] other
- [ ] No Recorded data available

Field Observation:
Depth of Surface Water: None (in.)
Depth to Free Water in Pit: N/A (in.)
Depth to Saturated Soil: N/A (in.)

Wetland Hydrology Indicators

Primary Indicators	Secondary Indicators
☐ inundated	☐ oxidized root channels in upper 12"
☐ saturated in upper 12"	☐ water-stained leaves
☐ water marks	☐ local soil survey data
☐ drift lines	☐ FAC-neutral test
☐ sediment deposits	☐ other (explain in remarks)
☐ drainage patterns in wetlands	

Remarks: No wetland hydrology indicators.

SOILS

Map Unit Name (Series and Phase): 182-Musserhill-Weaverville complex, 30-50% slopes
Taxonomy (Subgroup): Mollic-Ultic Haploxeralfs
Hydric Status on NRCS Field Office List: Non-hydric
Drainage Class: Wet
Field Observations Confirm Mapped Type? (Y) N UNK

Depth	Horizon	Matrix Color	Mottle Colors	Mottle Abundance/contrast	Texture, Concretions, Structure, Etc.

Remarks: Too rocky to dig pit. No hydric soils indicators.

Hydric Soil Indicators:

- ☐ Histosol
- ☐ Histic Epipedon
- ☐ Sulfidic odor
- ☐ Aquic moisture regime
- ☐ Reducing conditions
- ☐ Concretions
- ☐ Positive alpha-alpha dipyridyl test
- ☐ Gleyed or low-chroma colors
- ☐ High organic content in surface layer in sandy soil
- ☐ Organic streaking in sandy soils
- ☐ Listed on local hydric soils list
- ☐ Listed on national hydric soils list
- ☐ Other

WETLAND DETERMINATION

Hydrophytic vegetation present? Y or (N) Wetland Hydrology Present? Y or (N) Hydric Soils Present? Y or (N)
Is this point within a wetland? Y or (N) Is this point within an "Other waters of the U.S."? Y or (N) (If yes, complete bottom of form)

Remarks: Upland data point paired to perennial stream (DP30).

ACOE JURISDICTION

ACOE Jurisdiction:
☐ Adjacent to Waters ☐ Tributary to Waters ☐ Isolated (with Interstate Commerce) ☐ Isolated (non-jurisdictional)
Explain:

EVALUATION OF FEATURES DESIGNATED "OTHER WATERS OF THE UNITED STATES"

Indicators:
☐ Defined Bed and Bank ☐ Scour ☐ Ordinary High Water Mark Mapped

Feature Designation:
☐ Perennial ☐ Intermittent ☐ Ephemeral ☐ Blue-line on U.S.G.S. Topographic Map
☐ Natural Drainage ☐ Artificial Drainage ☐ Navigable Water

Remarks:

APPENDIX **C**

Data Point Photographs

Photographs to Support the Trinity River Mechanical Channel Rehabilitation Project
Lewiston 1-4 and Dark Gulch Sites
Delineation of Waters of the United States including Wetlands

Photo 16. View of ephemeral drainage and corresponding data points. Clipboard in channel represents data point 1 (ephemeral drainage) and shovel on right represents data point 2 (upland).

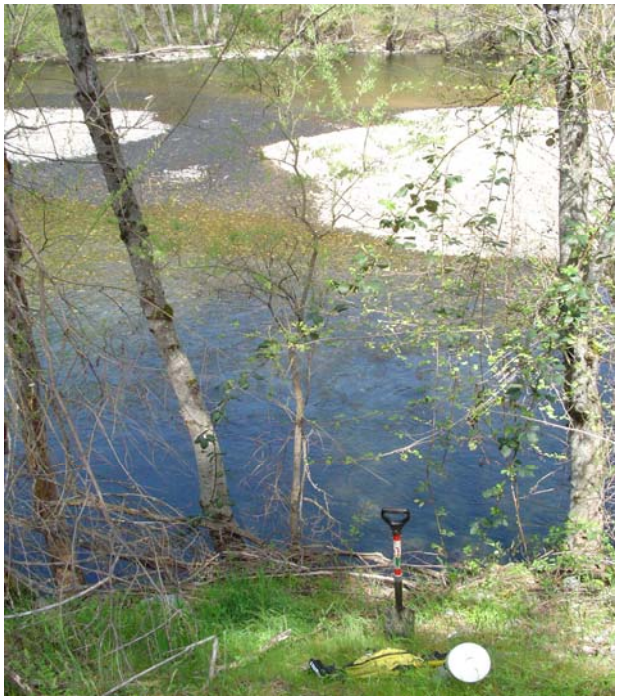


Photo 17. View of Trinity River and data point locations. Draft lines and the river itself represent data point 3 (perennial stream) and shovel in foreground represents data point 4 (upland).

Photo 18. View of intermittent drainage and corresponding data points. The channel represents data point 5 (intermittent drainage) and shovel on right represents data point 6 (upland).

Photo 19. View of riparian wetland and corresponding data points. Shovel represents data point 7 (riparian wetland) and clipboard on right represents data point 8 (upland).

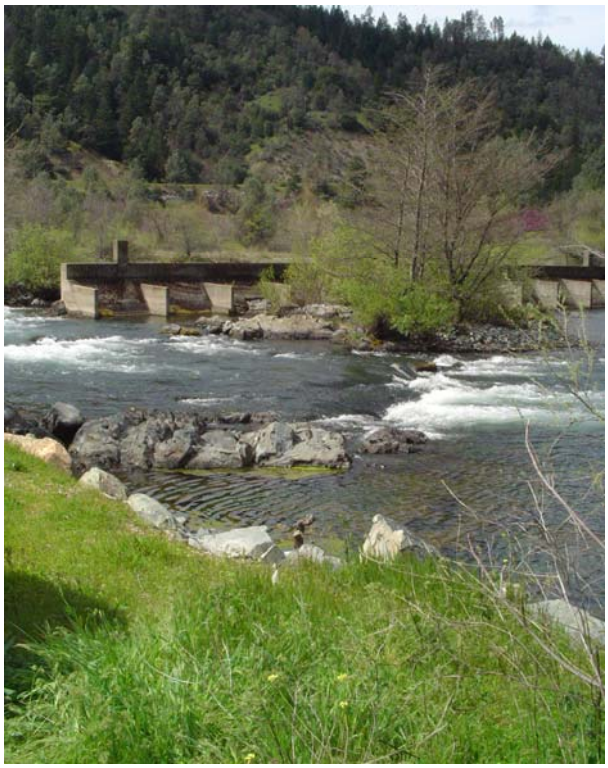


Photo 20. View of Trinity River and data point locations. The river itself represents data point 9 (perennial stream) and herbaceous vegetation in foreground represents data point 10 (upland).

Photo 21. View of OHWM for Trinity River and data point locations. Shovel represents data point 11 (perennial stream) and is located within the OHWM. Clipboard and GPS unit in foreground represent data point 12 (upland).

Photo 22. View of intermittent drainage and corresponding data points. Shovel in channel represents data point 13 (intermittent drainage) and clipboard on right represents data point 14 (upland).

Photo 23. View of OHWM for Trinity River and data point locations. Shovel in center represents data point 15 (perennial stream) and is located within the OHWM. Sandy soil in foreground represents data point 16 (upland).

Photo 24. View of Trinity River and corresponding data points. The river itself represents data point 17 (perennial stream). Shovel on left represents data point 18 (upland).

Photo 25. View of Trinity River and data point locations. The river itself and thin riparian boarder represent data point 19 (perennial stream). Field equipment in foreground represents data point 20 (upland).

Photo 26. View of fresh emergent wetland and corresponding data points. Cattails and water represent data point 21 (fresh emergent wetland) and shovel on right represents data point 22 (upland).

Photo 27. View of OHWM for Trinity River and data point locations. Shovel represents data point 23 (perennial stream) and is located within the OHWM. Vest in foreground represents data point 24 (upland).

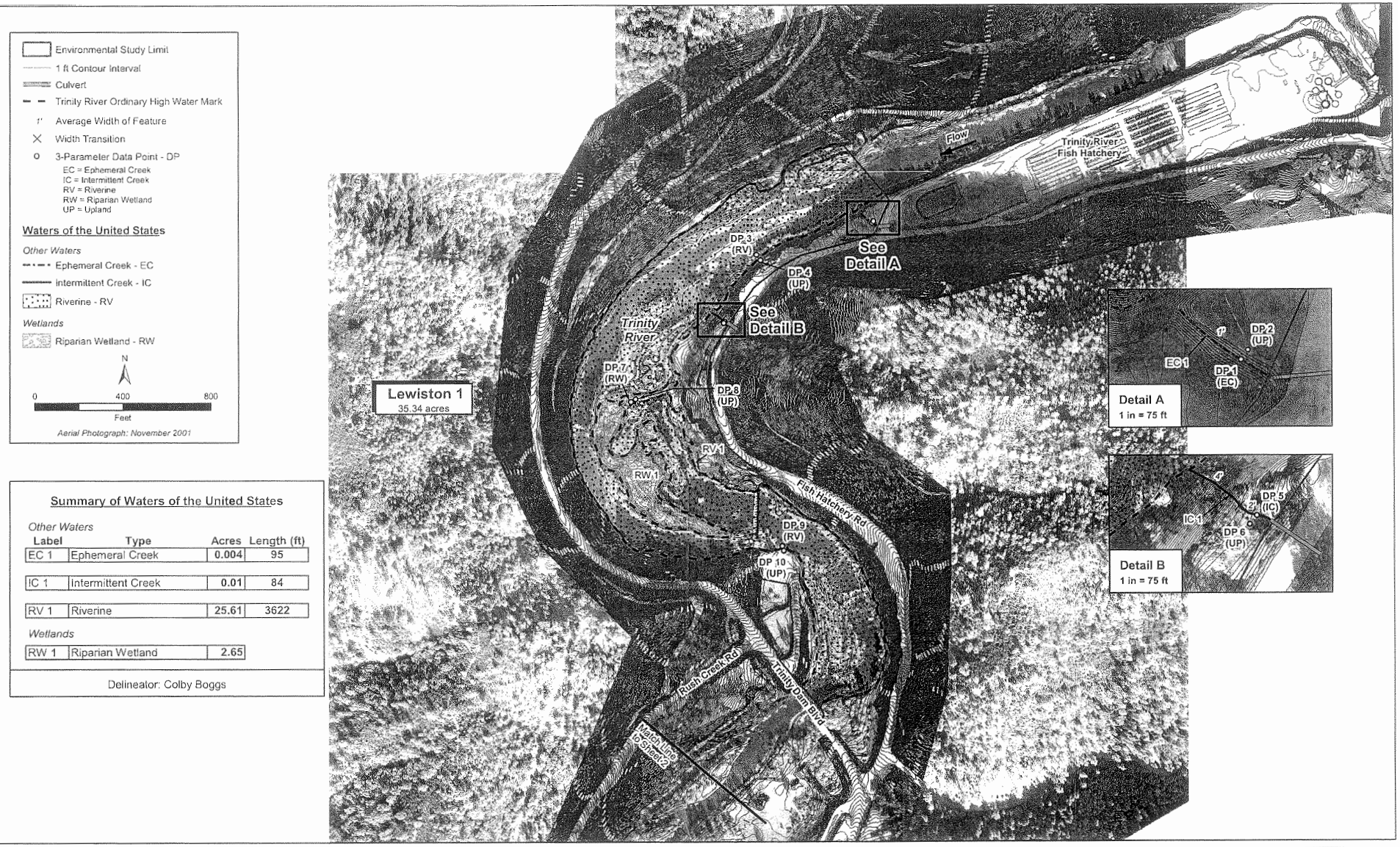
Photo 28. View of riparian wetland and corresponding data points. Cattails and blackberries represent data point 25 (riparian wetland) and shovel in lower right represents data point 26 (upland).

Photo 29. View of open water, fresh emergent wetland, and data point locations. The water itself represents data point 27 (open water). The thin band of cattails and rushes represents data point 28 (fresh emergent wetland) and shovel on right represents data point 29 (upland).

Photo 30. View of OHWM for Trinity River and data point locations. Drift lines in center represents data point 30 (perennial stream) and is located within the OHWM. Shovel on right represents data point 31 (upland).

APPENDIX **D**

Figure 4, Sheets 1-3 Boundaries of Waters (B/W)



Summary of Waters of the United States

Other Waters

Label	Type	Acres	Length (ft)
EC 1	Ephemeral Creek	0.004	95
IC 1	Intermittent Creek	0.01	84
RV 1	Riverine	25.61	3622

Wetlands

RW 1	Riparian Wetland	2.65

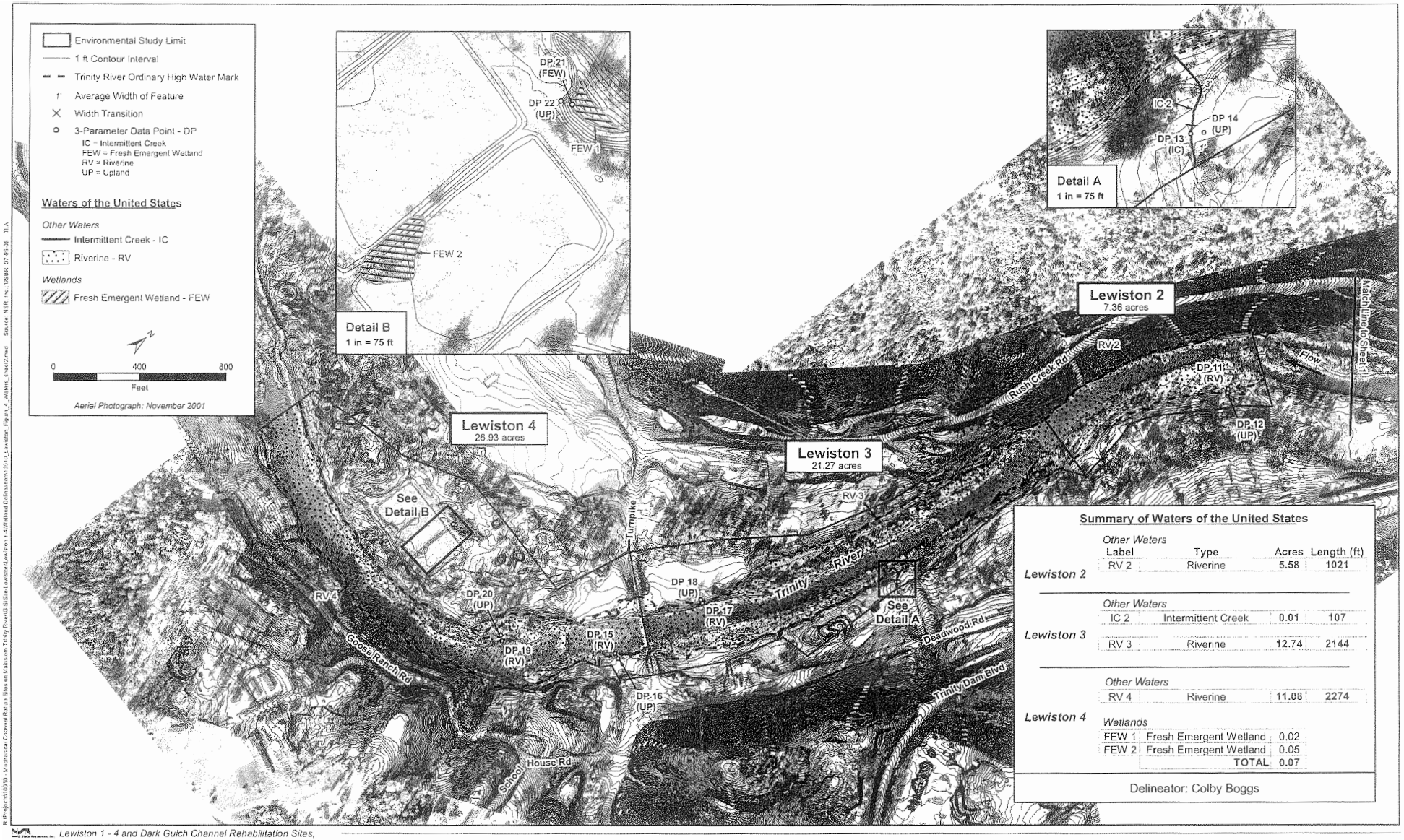
Delineator: Colby Boggs

Lewiston 1 - 4 and Dark Gulch Channel Rehabilitation Sites, Delineation of Waters of the U.S.

This delineation of waters of the United States, including wetlands, is subject to verification by the U.S. Army Corps of Engineers (ACOE). NSR advises all parties to treat the information contained herein as preliminary until the ACOE provides written verification of the boundaries of their jurisdiction.

Figure 4 - Sheet 1. Boundaries of Waters of the United States, Including Wetlands July, 2005

P:\Projects\1803 - Mechanical Channel Rehab Sites on Mainstem Trinity River\GIS\Shx Files\Wetland Delineation\Lewiston 1-4\1803 0_Lewiston_Figure_4_Waters_sheet1.mxd Source: NSR, Inc., USGS 07-05-05 TLA



Summary of Waters of the United States

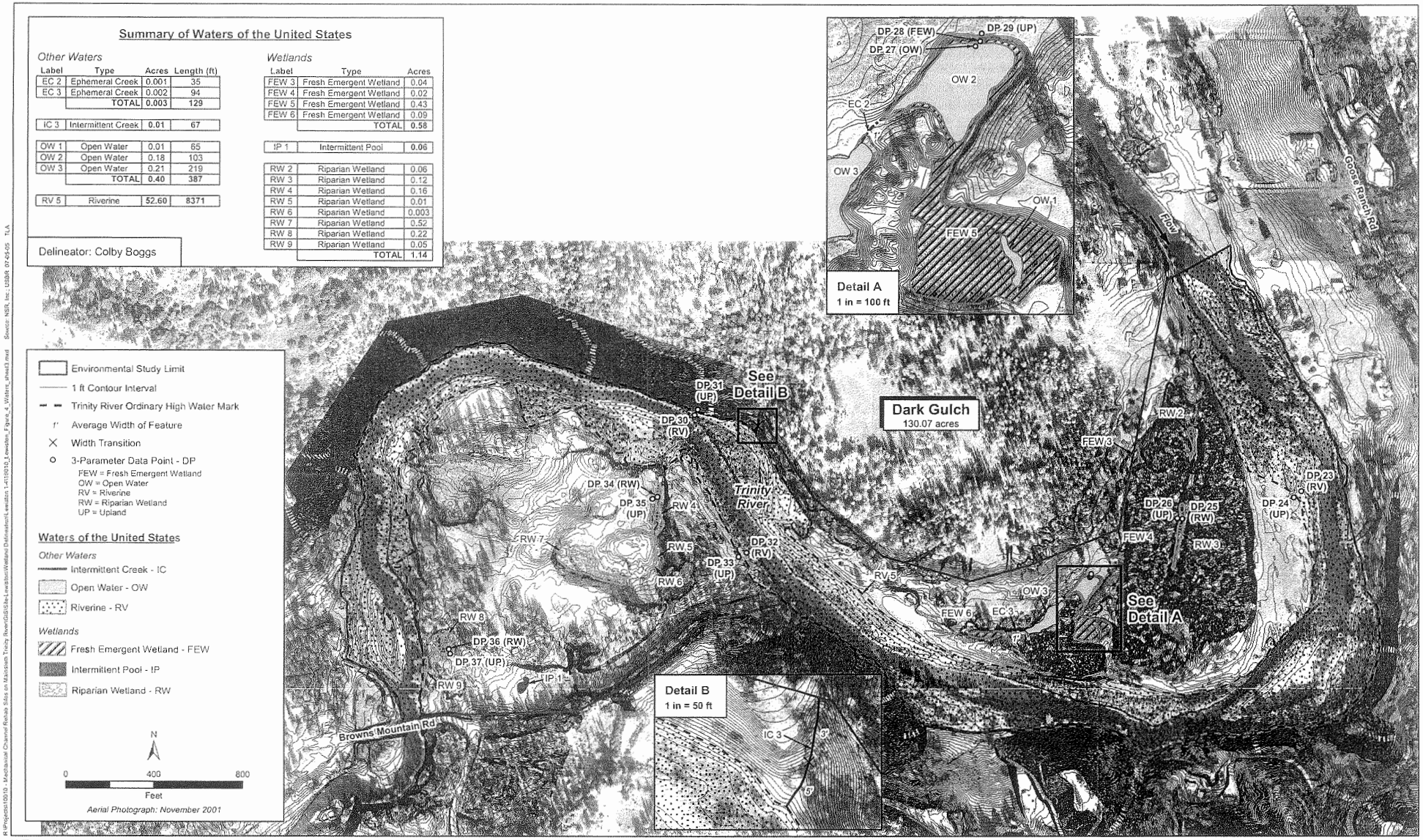
	Other Waters			
	Label	Type	Acres	Length (ft)
Lewiston 2	RV 2	Riverine	5.58	1021
Lewiston 3	*Other Waters*			
	IC 2	Intermittent Creek	0.01	107
	RV 3	Riverine	12.74	2144
Lewiston 4	*Other Waters*			
	RV 4	Riverine	11.08	2274
	Wetlands			
	FEW 1	Fresh Emergent Wetland	0.02	
	FEW 2	Fresh Emergent Wetland	0.05	
		TOTAL	0.07	

Delineator: Colby Boggs

Lewiston 1 - 4 and Dark Gulch Channel Rehabilitation Sites, Delineation of Waters of the U.S.

This delineation of waters of the United States, including wetlands, is subject to verification by the U.S. Army Corps of Engineers (ACOE). NSR advises all parties to treat the information contained herein as preliminary until the ACOE provides written verification of the boundaries of their jurisdiction.

Figure 4 - Sheet 2. Boundaries of Waters of the United States, Including Wetlands
July, 2005



Lewiston 1 - 4 and Dark Gulch Channel Rehabilitation Sites, Delineation of Waters of the U.S.

This delineation of waters of the United States, including wetlands, is subject to verification by the U.S. Army Corps of Engineers (ACOE). NSR advises all parties to treat the information contained herein as preliminary until the ACOE provides written verification of the boundaries of their jurisdiction.

Figure 4 - Sheet 3. Boundaries of Waters of the United States, Including Wetlands
July, 2005