NUMBER

• IRVINE, CALIFORNIA

DRAWING NUMBER

PLAN HOLD CORPORATION • IRVINE, CALIFORNIA

DRAWING NUMBER

3599-442

DRAWING

PLAN HOLD CORPORATION

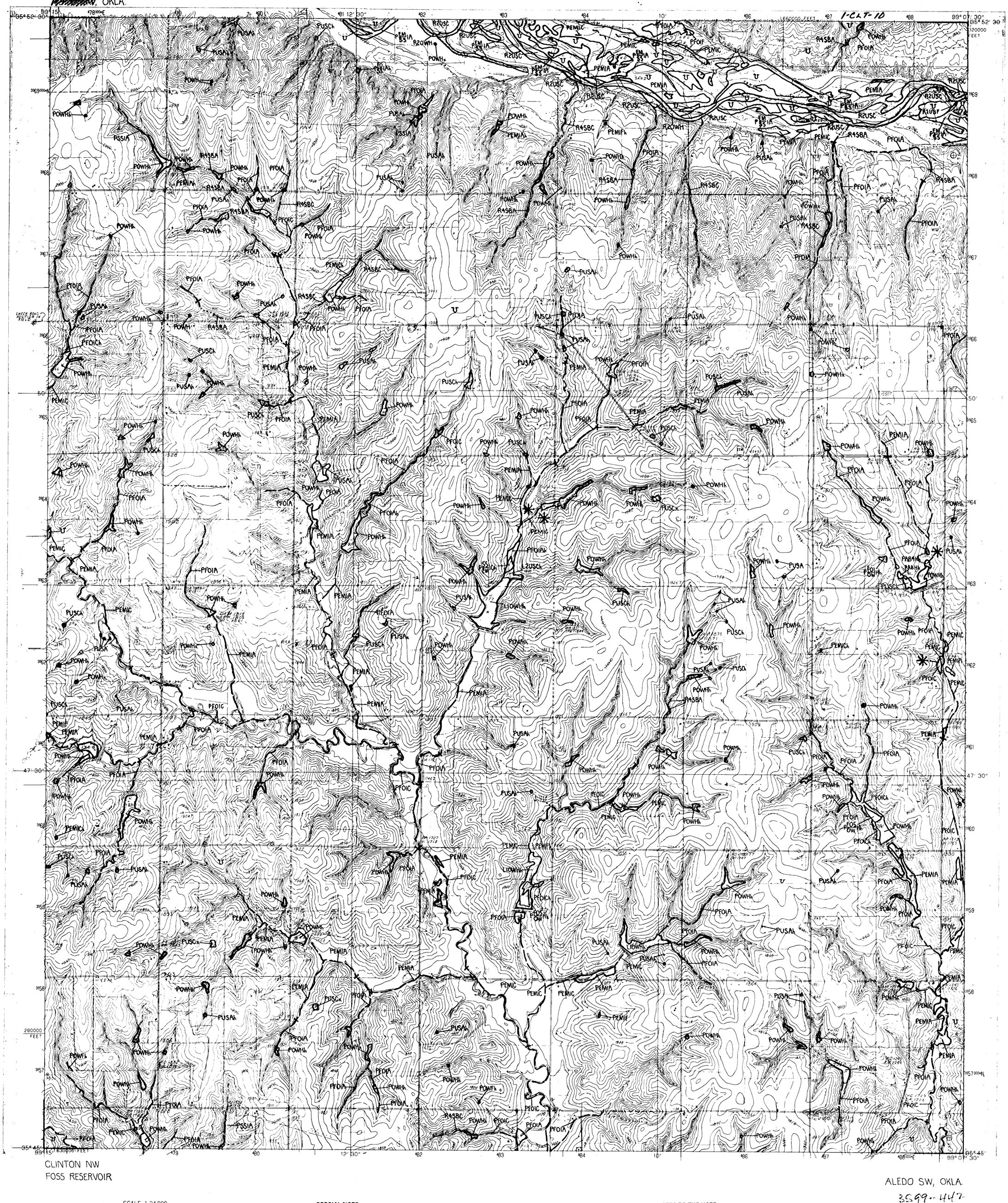
IMAGED

NATIONAL WETLANDS INVENTORY

UNITED STATES DEPARTMENT OF THE INTERIOR

RHEA

OKLA.



CLINTON NW

FOSS RESERVOIR

ALEDO SW, OKLA.

3599-442

SCALE 1:24000

1 MILE

1 KILOMETER

1 acre

10 acres

20 acres

ACREAGE GUIDE

Other information including a narrative report concerning the wetland resources depicted on this document may be available. For information, contact:

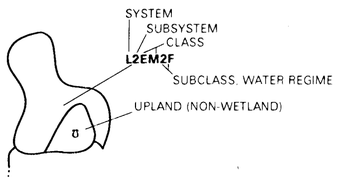
Regional Director (ARDE) Region II
U.S. Fish and Wildlife Service
P.O. Box 1306
Albuquerque, New Mexico 87103

SPECIAL NOTE

This document was prepared primarily by stereoscopic analysis of high altitude aerial photographs. Wetlands were identified on the photographs based on vegetation, visible hydrology, and geography in accordance with **Classification of Wetlands and Deepwater Habitats of the United States** (FWS/OBS - 79/31 December 1979). The aerial photographs typically reflect conditions during the specific year and season when they were taken. In addition, there is a margin of error inherent in the use of the aerial photographs. Thus, a detailed on the ground and historical analysis of a single site may result in a revision of the wetland boundaries established through photographic interpretation. In addition, some small wetlands and those obscured by dense forest cover may not be included on this document.

Federal, State and local regulatory agencies with jurisdiction over wetlands may define and describe wetlands in a different manner than that used in this inventory. There is no attempt, in either the design or products of this inventory, to define the limits of proprietary jurisdiction of any Federal, State or local government or to establish the geographical scope of the regulatory programs of government agencies. **Persons intending to engage in activities involving modifications within or adjacent to wetland areas should seek the advice of appropriate Federal, State or local agencies concerning specified agency regulatory programs and proprietary jurisdictions that may affect such activities.**

SYMBOLOGY EXAMPLE



U — Primarily represents **upland** areas, but may include unclassified wetlands such as man-modified areas, non photo-identifiable areas and/or unintentional omissions.

NOTES TO THE USER

- Wetlands which have been field examined are indicated on the map by an asterisk (*).
- Additions or corrections to the wetlands information displayed on this map are solicited. Please forward such information to the address indicated.
- Subsystems, Classes, Subclasses, and Water Regimes in *Italics* were developed specifically for NATIONAL WETLANDS INVENTORY mapping.
- Some areas designated as R4SB, R4SBW, OR R4SBJ (INTERMITTENT STREAMS) may not meet the definition of wetland.
- This map uses the class Unconsolidated Shore (US). On earlier NWI maps that class was designated Beach/Bar (BB), or Flat (FL). Subclasses remain the same in both versions.

U.S. DEPARTMENT OF THE INTERIOR

FISH AND WILDLIFE SERVICE

Prepared by National Wetlands Inventory

AERIAL PHOTOGRAPHY

DATE: 5 / /84 SCALE: 1:50 000 TYPE: CIR

DATE: / / SCALE: TYPE:

M — MARINE

SYSTEM	SUBSYSTEM	CLASS	Subclass
	1 — SUBTIDAL	RB — ROCK BOTTOM	1 Bedrock 2 Rubble
		UB — UNCONSOLIDATED BOTTOM	1 Cobble-Gravel 2 Sand 3 Mud 4 Organic
		AB — AQUATIC BED	1 Algal 3 Rooted Vascular 5 *Unknown Submergent*
		RF — REEF	2 Coral 3 Worm
		OW — *OPEN WATER/ Unknown Bottom*	
	2 — INTERTIDAL	AB — AQUATIC BED	1 Algal 3 Rooted Vascular 5 *Unknown Submergent*
		RF — REEF	1 Coral 3 Worm
		RS — ROCKY SHORE	1 Bedrock 2 Rubble
		US — UNCONSOLIDATED SHORE	1 Cobble-Gravel 2 Sand 3 Mud 4 Organic

E — ESTUARINE

SYSTEM	SUBSYSTEM	CLASS	Subclass
	1 — SUBTIDAL	RB — ROCK BOTTOM	1 Bedrock 2 Rubble
		UB — UNCONSOLIDATED BOTTOM	1 Cobble-Gravel 2 Sand 3 Mud 4 Organic
		AB — AQUATIC BED	1 Algal 3 Rooted Vascular 4 Floating Vascular 5 *Unknown Submergent* 6 *Unknown Surface*
		RF — REEF	2 Mollusc 3 Worm
		OW — *OPEN WATER/ Unknown Bottom*	
	2 — INTERTIDAL	AB — AQUATIC BED	1 Algal 3 Rooted Vascular 4 Floating Vascular 5 *Unknown Submergent* 6 *Unknown Surface*
		RF — REEF	2 Mollusc 3 Worm
		SB — STREAMBED	1 Cobble-Gravel 2 Sand 3 Mud 4 Organic
		RS — ROCKY SHORE	1 Bedrock 2 Rubble
		US — UNCONSOLIDATED SHORE	1 Cobble-Gravel 2 Sand 3 Mud 4 Organic
		EM — EMERGENT	1 Persistent 2 Nonpersistent
		SS — SCRUB-SHRUB	1 Broad-Leaved Deciduous 2 Needle-Leaved Deciduous 3 Broad-Leaved Evergreen 4 Needle-Leaved Evergreen 5 Dead 6 *Deciduous* 7 *Evergreen*
		FO — FORESTED	1 Broad-Leaved Deciduous 2 Needle-Leaved Deciduous 3 Broad-Leaved Evergreen 4 Needle-Leaved Evergreen 5 Dead 6 *Deciduous* 7 *Evergreen*

R — RIVERINE

SYSTEM	SUBSYSTEM	CLASS	Subclass
	1 — TIDAL	RB — ROCK	1 Bedrock 2 Rubble
		UB — UNCONSOLIDATED BOTTOM	1 Cobble-Gravel 2 Sand 3 Mud 4 Organic
	2 — LOWER PERENNIAL	*SB — STREAMBED	1 Bedrock 2 Rubble 3 Cobble-Gravel 4 Sand 5 Mud 6 Organic 7 Vegetated
		AB — AQUATIC BED	1 Algal 2 Aquatic Moss 3 Rooted Vascular 4 Floating Vascular 5 *Unknown Submergent* 6 *Unknown Surface*
		RS — ROCKY SHORE	1 Bedrock 2 Rubble
		US — UNCONSOLIDATED SHORE	1 Cobble-Gravel 2 Sand 3 Mud 4 Organic 5 Vegetated
	3 — UPPER PERENNIAL	**EM — EMERGENT	2 Nonpersistent
	4 — INTERMITTENT	OW — *OPEN WATER/ Unknown Bottom*	
	5 — UNKNOWN PERENNIAL		

*STREAMBED is limited to TIDAL and INTERMITTENT SUBSYSTEMS and comprises the only CLASS in the INTERMITTENT SUBSYSTEM.

**EMERGENT is limited to TIDAL and LOWER PERENNIAL SUBSYSTEMS. The remaining CLASSES are found in all SUBSYSTEMS.

L — LACUSTRINE

SYSTEM	SUBSYSTEM	CLASS	Subclass
	1 — LIMNETIC	RB — ROCK BOTTOM	1 Bedrock 2 Rubble
		UB — UNCONSOLIDATED BOTTOM	1 Cobble-Gravel 2 Sand 3 Mud 4 Organic
		AB — AQUATIC BED	1 Algal 2 Aquatic Moss 3 Rooted Vascular 4 Floating Vascular 5 *Unknown Submergent* 6 *Unknown Surface*
		OW — *OPEN WATER/ Unknown Bottom*	
	2 — LITTORAL	RB — ROCK BOTTOM	1 Bedrock 2 Rubble
		UB — UNCONSOLIDATED BOTTOM	1 Cobble-Gravel 2 Sand 3 Mud 4 Organic
		AB — AQUATIC BED	1 Algal 2 Aquatic Moss 3 Rooted Vascular 4 Floating Vascular 5 *Unknown Submergent* 6 *Unknown Surface*
		RS — ROCKY SHORE	1 Bedrock 2 Rubble
		US — UNCONSOLIDATED SHORE	1 Cobble-Gravel 2 Sand 3 Mud 4 Organic 5 Vegetated
		EM — EMERGENT	2 Nonpersistent
		OW — *OPEN WATER/ Unknown Bottom*	

P — PALUSTRINE

SYSTEM	CLASS	Subclass
	RB — ROCK BOTTOM	1 Bedrock 2 Rubble
	UB — UNCONSOLIDATED BOTTOM	1 Cobble-Gravel 2 Sand 3 Mud 4 Organic
	AB — AQUATIC BED	1 Algal 2 Aquatic Moss 3 Rooted Vascular 4 Floating Vascular 5 *Unknown Submergent* 6 *Unknown Surface*
	US — UNCONSOLIDATED SHORE	1 Cobble-Gravel 2 Sand 3 Mud 4 Organic 5 Vegetated
	ML — MOSS-LICHEN	1 Moss 2 Lichen
	EM — EMERGENT	1 Persistent 2 Nonpersistent
	SS — SCRUB-SHRUB	1 Broad-Leaved Deciduous 2 Needle-Leaved Deciduous 3 Broad-Leaved Evergreen 4 Needle-Leaved Evergreen 5 Dead 6 *Deciduous* 7 *Evergreen*
	FO — FORESTED	1 Broad-Leaved Deciduous 2 Needle-Leaved Deciduous 3 Broad-Leaved Evergreen 4 Needle-Leaved Evergreen 5 Dead 6 *Deciduous* 7 *Evergreen*
	OW — *OPEN WATER/ Unknown Bottom*	

MODIFIERS

In order to more adequately describe wetland and deepwater habitats one or more of the water regime, water chemistry, soil, or special modifiers may be applied at the class or lower level in the hierarchy. The farmed modifier may also be applied to the ecological system.

WATER REGIME

Non-Tidal		Tidal	
A Temporarily Flooded	H Permanently Flooded	K *Artificially Flooded*	* S Temporary-Tidal
B Saturated	J Intermittently Flooded	L Subtidal	* R Seasonal-Tidal
C Seasonally Flooded	K Artificially Flooded	M Irregularly Exposed	* T Semipermanent Tidal
D *Seasonally Flooded/ Well Drained*	W Intermittently Flooded/Temporary	N Regularly Flooded	* V Permanent-Tidal
E *Seasonally Flooded/ Saturated*	Y Saturated/Semipermanent/ Seasonal	P Irregularly Flooded	U *Unknown*
F Semipermanently Flooded	Z Intermittently Exposed/Permanent		
G Intermittently Exposed	U *Unknown*		

*These water regimes are only used in tidally influenced, freshwater systems.

WATER CHEMISTRY

Coastal Halinity	Inland Salinity	pH Modifiers for all Fresh Water
1 Hyperhaline	7 Hypersaline	a Acid
2 Euhaline	8 Eusaline	t Circumneutral
3 Mixohaline *(Brackish)*	9 Mixosaline	i Alkaline
4 Polyhaline	0 Fresh	
5 Mesohaline		
6 Oligohaline		
0 Fresh		

SOIL

g Organic	
n Mineral	

SPECIAL MODIFIERS

b *Beaver*	h *Diked/Impounded*
d *Partially Drained/Ditched*	r *Artificial Substrate*
f Farmed	s *Spoil*
	x Excavated