## APPENDIX I: Nevada Wetland Rapid Assessment Method Data Sheets

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## **Nevada Wetland Rapid Assessment Method (RAM) Data Sheets**

Pre-field Survey entry (\*) information available from the NV Level 1 Wetland Mapping Tool, "Wet Bar". Verify or correct information during field survey activities. Attach Level 1 Wetland Analysis Toolbar Report to data sheets.

LOCATION AND GENERAL INFORMATION* (Field Manual p. 23, Sec. 2.4.a.)		
Point Code: Site Name:	Date:	
Time Start: Time End: Weather: Recent rain/Rain/Sr		
State Engr Hydrographic Name: HUC 10		
Surveyors (circle recorder):	^Fede.	ral/state land descriptor
Access Comments (Note permit requirements, changes to driving directions	s, or difficulties accessing the site):	
ASSESSMENT AREA AND GPS COORDINATES* (Field Manual p. 23, Sec. 2.4	Ih ì	
ASSESSMENT AREA AND GPS COORDINATES* (Field Manual p. 23, Sec. 2.4		<u>U</u>
<u>Dimensions of AA:</u>		
40 m radius circle Rectar	ngle: Width Length	Area
Freeform: Min 10 m wide; Max 200 m long AA-Track #:		
Entire wetland (Complete AA Representativeness section) AA-Track	#:	
Target Wetland Type:YesNo		
AA Representativeness: Is AA the entire wetland? Yes No. IF NO. Provide comments. If part of complex, indicate if other HGM or Cowardin cla		
Provide comments. If part of complex, indicate if other HGM of Cowardin cla	asses, or general wetland categories & type are pre	sent ( <b>Appendix A, B, C</b> ):
AA GPS Coordinates: AA-Center Waypoint #:		
(NAD 83) UTM Zone: Easting:  Accuracy (+/-): Elevation (m):	Northing:	
AA Photos 40 m radius circle: Take from AA-Center point, looking out in	4 cardinal directions; ONLY INCLUDE WP/Photo #	and Aspect.
Freeform: Take from 4 points on AA edge looking-in OR Rectangle:		
AA-1 WP/Photo #:Aspect:UTM/Easting:_	Northing:	
AA-2 WP/Photo #:Aspect:UTM/Easting: _	Northing:	
AA-3 WP/Photo #:Aspect:UTM/Easting	Northing:	
AA-4 WP/Photo #:Aspect:UTM/Easting	Northing:	
CLASSIFICATION OF ASSESSMENT AREA* (Field Manual p. 26, Sec. 2.4.c./A	ppendix A, B, & C)	0
<u>Cowardin Class</u> *_Pick one class for the dominant wetland type. If using NV	HGM Class*	
Level 1 Wetland Analysis, populate with National Wetland Inventory Class.	RiverineLacustrine Fringe	
System: Palustrine Upland		
Class: Aquatic Bed Emergent Scrub-Shrub Forested Unconsolidated Bottom Unconsolidated Shore	DepressionalSlope	_Flats
Cowardin Modifiers: Water Regime (helps describe wetland origin)	Cowardin Modifiers: Special (Optional)	
Intermittently Flooded/IFSeasonally Flooded/SF	Beaver (b)	<u>Farmed (</u> f)
Temporarily Flooded/TFSemi-Permanently Flooded/SPF	Excavated (x) +	Spoil (s)
Saturated/STIntermittently Exposed/IE	Partially ditched/drained (d)	Reservoir (r)
Seasonally Saturated/SSPermanently Flooded/PF	Diked/Impounded (h)	Channel (c)
	+ Excavated may include restored wetlands	Springbox (sb)
REGION: Great Basin / Eastern Sierra / Mojave GENERAL WETLAND CATEG	ORIES FOR NV: Intermountain Basin Playa, Marshe	s, Fens, Montane
Riparian Ecosystems, Additional Mojave. Circle appropriate Region & Domi		

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ASSESSMENT AREA DRAWING, SETTING AND SURROUNDI	NG LANDSCAPE DESCRIPTION (Field Man	ual p.26, Sec. 2.5)		
Include the following, plus a legend.				
AA Boundary and Center Point  North arrow and approx. scale bar Location of soil pit/s  Photo point locations & GPS waypoint or track #s  Water chemistry measurement/s  GPS waypoint #/s  Dominant vegetation types & community types (note if to outline those types)	Additional site description notes o Community types and abiotic zone Landscape setting: dominant plant AA slope cross-sectional diagram ( Structures or other human-made f	es: open water, in/out f ts; wetland types (show from N-S & E-W) features (including road	flows, drainage path ) ds/paths)	

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SOIL PROFILE D	ESCRIPTION – SOIL	L PIT 1	? (Field Manual p.	27, Sec. 2.6/ App	endices D 8	k Ε)				
SP GPS WP#:	(NAD 83) UTN	M Zone: Easting:	North	ning:		IF NO FREE-ST	TANDING WAT	ER observed: □Pit fillin	g slowly OR □Pit appe	ears dry
Water Settling Tin	me (s):Depth	n to saturated soil (cm):	Depth to fre	ee water (cm):		Temp (°C)	pH	EC (dS/m)	DO (ppm)	
Horizon Depth (cm)	Matrix Color (moist)	Dominant Redox Features Color (moist) Observed		Roots Observed	<u>Grave</u> Observ	-	<u>Notes</u>			
		Dominant Redox, Roots and	Gravel Amounts Ob	oserved qualitativ	e descripto	r choices = N	one / Very Fe	ew / Few / Many		
Histosol (A1 Histic Epipe Mucky Mine	L) don (A2/A3)	ix E for descriptions. Check all tGleyed Matrix (S4/F2)Depleted Matrix (A11/ARedox Concentrations (S6/F)		Surface Salt Crusts Translocated Salts		Comments:				
SOIL PROFILE D	ESCRIPTION – SOIL	L PIT 2	Pit? 2 or i	MORE PITS ONLY	NEEDED IF	GREAT VARIA	BLITY ACROSS	S ASSESSMENT AREA		0
SP GPS WP#:	(NAD 83) UTI	M Zone: Easting:	North	ning:		F NO FREE-ST	ANDING WAT	ER observed: □Pit fillin	g slowly OR □Pit appe	ars dry
Water Settling	Time (s):Depth	n to saturated soil (cm):	Depth to fre	ee water (cm):	-	Гетр (°С)	pH	EC (dS/m)	DO (ppm)	
Horizon Depth (cm)	Matrix Color (moist)	Dominant Redox Features Color (moist) Observed	Texture d Appendix D	Roots Observed	<u>Grave</u> Observ	-	<u>Notes</u>			
		Dominant Redox, Roots and	Gravel Amounts Ob	oserved qualitativ	e descripto	r choices = N	one / Very Fe	ew / Few / Many		
Histosol (A1	L) don (A2/A3)	ix E for descriptions. Check all t  Gleyed Matrix (S4/F2)  Depleted Matrix (A11/A  Redox Concentrations (	S S T	Surface Salt Crusts translocated Salts		Comments:				

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<u>from the list below</u> . If animal presence observed with <b>Sec. 2.8</b> )							
Check AA for the following organisms: * invasive in N Springsnails (Pyrgulopsis, Fluminicola, Juga, Tryor Amphipods Odonata (dragonflies and dai Fish (native/non-native) Amphibians (frogs Mammals (aquatic/upland)	nia) Other snails (Phys mselflies) Other aqua	tic insect	s (caddisflies, b	eetles, strid	ers, etc.)	Other i	nsects
Animal & Brief Comments:	Pho	oto#	# Individuals	Nest	Vocal	Tracks	Scat
WATER CHEMISTRY – Take > than 1 reading if AA rep	resents larger wetland <b>or</b> co	mplex wi	th different we	tland classe	s. <b>Field Man</b>	ual p. 30, S	ec. 2.7
Reading 1 Location: GPS V	Vaypoint #						
(NAD 02) LITAA Zana. Fasting.	Non					Standing of (Circ	
(NAD 83) UTM Zone: Easting:	Nor	tning:	-			(Cir.	iic,
Temp (°C) pH Electric	cal Conductivity/EC (dS/m)		Dissolved	Oxygen/DO	(ppm)		
Reading 2 Location: GPS \	Waypoint #						
(NAD 83) UTM Zone: Easting:				_		Standing o	or Flowing rcle)
Temp (°C) pH Electric	cal Conductivity/EC (dS/m)		Dissolved	Oxygen/DO	(ppm)		
COMMENTS- Note the water meter brand & model. E collected.	Enter additional Reading loca	ation, GPS	S Waypoint, an	d measurem	nents if more	than 2 rea	ding

Community Type Name	% of AA	Tree Heig	ht (m)	Shrub Height	(m)	Grass/For	b Height (m)
1	, , , , , , , , ,	3.13.13.13					
2							
3 4							
4							
Walk each community type area- community type rows above, estimate   below. Note known invasive and non-na	percent cover o	f each specie	s within	each community	type.	Use the bin-	_
Not Present (NP) / Trace (T = 0 - 5%	) / Uncommon	(U= 6 - 10%)	/ Comm	non (C = 11 - 50%	ś) / <b>Do</b>	minant (D =	> 50%)
Scientific Name or Pseudonym/Common name  Note if collection and/or photo taken		1	2	3		4	Non-Native / Invasive

VEGETATION SPECIES LIST (Field Manual p. 31, Sec. 2.9, Appendix C) Spend no more than 1-hour total on the Vegetation RAM.

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VEGETATION SPECIES LIST- ADDITIONAL PAGE (Field Manual p. 31, Sec. 2.9.a., Appendix C)								
Not Present (NP) / Trace (T: 0 - 5%) / Uncommon (U: 6 - 10%) / Common (C: 11 - 50%) / Dominant (D: > 50%)								
Scientific Name or Pseudonym/Common name  Note if collection and/or photo taken	1	2	3	4	Non-Native / Invasive			
Note if conceiton and or photo taken								

Point Code: Date:	
<b>COVER CLASSES NP</b> = Not present <b>1</b> : 0 - 5% <b>2</b> : 6 - 10% <b>3</b> : 11 - 50% <b>4</b> : > 50%	6
WATER	
Standing water of any depth - vegetated or not	
Running water of any depth - vegetated or not	
Open water - plant canopy cover < 10%	
Water with emergent vegetation	
Water with floating or submerged vegetation	
EXPOSED GROUND	
Bare ground – soil / sand / sediment	
Bare ground – gravel / cobble (~2–250 mm)	
Bare ground – bedrock / rock / boulder (>250 mm)	
Salt crust all cover - including over vegetation or litter cover	
LITTER	
All cover - including under water or vegetation	
Depth of litter (cm) – average of four non-trampled locations where litter occurs:  Depth 1 cm Depth 2 cm Depth 3 cm Depth 4 cm Ave. depth:	
Predominant litter type ( $\mathbf{C}$ = coniferous, $\mathbf{E}$ = broadleaf evergreen, $\mathbf{D}$ = deciduous, $\mathbf{S}$ = sod/thatch, $\mathbf{F}$ = forb)	
DEBRIS	
Standing dead trees, >5 cm diameter at breast height	
Standing dead shrubs or small trees, <5 cm diameter at breast height	
Downed coarse woody debris - fallen trees, rotting logs, >5 cm diameter	
Downed fine woody debris, <5 cm diameter	
OTHER	
Bryophytes - all cover, including under water, vegetation or litter cover	
Lichens - all cover, including under water, vegetation or litter cover	
Algae - all cover, including under water, vegetation or litter cover	