New Mexico Environment Department Surface Water Quality Bureau LEVEL 1 Hydrology Determination Field Sheet

Date:				Time:		Evaluators:			
Stream Name:				Site Des	cription:				
WQS as found under	NMAC (20.6.4):			Assessm	ent Unit				
Starting Latitude:	Ending Latitude:								
Starting Longitude:	Jde: Ending Longitude:								
Starting Elevation:				Ending E	levation	:			
TOTAL POINTS*:									
*See Hydrology Prot	ocol for determin	nation		Neerestweether					
	DROUGHT CONDITIONS:			station:	PAST 48 HOURS**:		CURREN	TLY**:	
	12-mo. SPI Value:				storm (heavy rain)		storm (heavy rain)		
WEATHER	12-mo. SPEI Value:				rain (steady rain)		rain (steady rain)		
CONDITIONS	Drought Condition:			Precipitation past	intermittant rain		intermittant rain		
	Obtained from:			46 110015.	% cloud cover		% cloud cover		
	Date Obtained:			c		_ clear/sunny		clear/sunny	
	**Field e	**Field evaluations should be performed <u>at least</u> 48 hours after the last major rainfall event.							
SITE OBSERVATIONS ALONG ENTIRE REACH	Nearest Stream Modification (description and proximity):								
	Nearest Diversion (description and proximity):								
	Nearest Discharge (description and proximity):								
	Include any and all modifications/discharges and diversions regardless of perceived impact to hydrologic regime along with any field observations								
CALCULATIONS FOR DETERMINING FLOODPLAIN AND	Thalwag Height (#1)	Bankfull Height (#2)		Change in Height (#1 - #2)		Change in Height x 2 (#3)	Flood-prone Area Height (#1-#3)		
DIMENSIONS	Flood-prone width:								
(Use for 1.8 on Field	Bankfull Width:								
Survey)	Elood-prone Width to Bankfull Width Ratio								
	Alternative Methods used								
	(describe)?								
	Time	Photo #		Description		Identifiable References Photogra		Photographer	
PHOTO									
(include additional									
photographs as attachment)									
OTHER SITE CHARACTERISTIC NOTES/ SCHEMATICS	RECEIVED By Water Quality Control Commission at 1:35 pm, Jun 26, 2020								

LEVEL 1	Stream Condition (identify all that apply then choose most prominent score)						
INDICATORS	Strong	Moderate	Weak	Poor			
	Flow is evident	Wet Channel	Dry Channel with	Dry Channel			
	throughout reach	Flow is barely	standing pools	Dry under rocks/debris			
	Flow is observed in	discernable	Saturated or moist	No evidence of base			
	riffles	Floating object needed	sediment under	flows			
1.1	Flow may not be	to observe flow	rocks/debris				
Water In Channel	evident in runs		Evidence of base flows				
	6	4	2	0			
	Notes/Comments:						
	Found easily	Found with little	□ Found with difficulty (10	□ Not present (after 10 or			
	Found consistently	difficulty	or more minutes of	more minutes of			
	throughout reach	Not consistent	searching)	searching)			
1.2	0	throughout reach	0,	0,			
Fish in Channel	3	2	1	0			
	Species Observed and	£	-				
	Notes/Comments:						
	Found easily	Found with little	Found with difficulty (10	Not present (after 10 or			
1 2	Found consistently	difficulty	or more minutes of	more minutes of			
1.5 Danthia	throughout reach	Not consistent	searching)	searching)			
Benthic		throughout reach					
Macroinvertebrates	3	2	1	0			
in Channel	Species Observed and						
	Notes/Comments:						
	Found easily	Found with little	Found with difficulty (10	Not present (after 10 or			
1.4	Found consistently	difficulty	or more minutes of	more minutes of			
Filamentous	throughout reach	Not consistent	searching)	searching)			
Algoe /Derinbyton in		throughout reach					
Algae/Peripriyton in	3	2	1	0			
Channel	Notes/Comments:	_	_				
		Distinct riparian	Minimal compositional				
1.5		Distinct riparian					
	species unierence	cornuor exists but not	species unierence	species unierence			
	riparian corridor		riparian corridor	riparian corridor			
		difference between unland					
	Corridor ovists along ontiro	and riparian corridor		along the riperion cooridor			
Vegetation along	control exists along entire		along the riparian area	doos not occur in groater			
cooridor (within	Diparian aquatic or	interspersed with upland	or grows more vigorously	donsity or grow more			
, floodplain)		interspersed with upland	than in the adjacent	vigorously than in the			
noouplainy	optiro roach	species		adjacent unlands			
			upialius				
	3	2	1	0			
	Notes/Comments:						
	Rooted upland plants	There are a few rooted	Rooted upland plants	Rooted upland plants			
	are absent within the	upland plants within the	are consistently dispersed	are prevalent within the			
16	streambed/thalweg	streambed/thalweg	throughout the	streambed/thalweg			
Rooted Unland			streambed/thalweg				
Diants in Channel							
Plants in Channel	3	2	1	0			
	Species Observed and						
	Notes/comments:						
			SUBTOTAL (1.1-1.6)				

	$\Box Calculated ratio > 1.4 \qquad \Box Calculated ratio > 1.4 \qquad \Box Calculated ratio > 1.4 \qquad \Box Calculated ratio = 0.000 \ control = 0.0000 \ control = 0.00000 \ control = 0.00000 \ control = 0.0$		ated ratio 1.4 <>	Calculated ratio 1.2 <>		Calculated ratio = 1.0	
1.7	□ Numerous closely 1.2			1.0		Completely straight	
Sinuosity of	spaced bends	Mostly bends		Few bends			
Segment (for length	Few straight sections	Some straight sections		Mostly straight sections			
no less than two	3		2	1		0	
meanders)	Calculated	Notes/Co	omments:				
	\Box Observed			25 ~ 1 2		atod ratio < 1.2	
	$\Box \text{ Calculated ratio > 2.5}$		Calculated ratio 2.5 <> 1.2		\Box calculated ratio < 1.2		
1.8	\square Wide active floodulain		Eloodplain active during larger		\square Flooplain absent or narrow		
Floodplain and			events		Floodplain not connected		
Channel Dimensions	3		1 5		0		
	Calculated	- mments:					
	Observed	,					
	Frequent number of	Less frequent number D Mostly has areas of		No riffles or pools			
1.9	riffle and pools observed of riffle		nd pools	pools <u>or</u> of riffles		observed	
In-Channel	throughout reach	🗖 Transi	tion between				
Structuro: Pifflo	Obvious transition	riffles an	d pools difficult to				
	between riffles and pools	distingui	sh				
Pool Sequence	3		2	1		0	
	Notes/Comments:			CURTOTAL			
	Dertiele circe in the shan	nalara	Dorticle sizes in		(1.1-1.9)	la sizas in the shermal are	
	Particle sizes in the chan	nel are	Particle sizes in	the channel are		le sizes in the channel are	
	sizes outside the channel in	a ticle	outside the chann	al in the flood	similar of comparable to particle		
1 10	flood-prope area	i the			flood-prope area		
1.10 Deutiele Cies eu	Clear distribution of vari	ious sized D Various sized		ubstrates are		Substrate sorting is not readily	
Particle Size or	substrates in the stream ch	nresent in the stre	am channel observed		t in the stream channel		
Stream Substrate	substrates in the stream en	annen.	Higher ratio of	larger narticles	00501700	in the stream channel.	
Sorting	aravel/cohble)						
	3		1.5		0		
	Calculated	Notes/Co	omments:				
1 11	Observed Description	o obsorivo	d in roach		aile woro i	act observed in reach	
1.11 Uvdria Saila Mithia		2 00301 10	unneach				
	Notos/Commonts	5 				0	
Flood-Prone Area							
	Sediment found readily	Sediment found readily Sedim		Sediment on plants and		No sediment is present	
	on plants and debris in:	on plants and debris in: prevalen		acons is isolated in small		on plants or debris.	
1.12	Channel debris.		ant math	amounts along the sample			
Sediment on Plants			ent mostly	reach.			
and Debris							
	1.5		1 0.5		0		
	Notes/Comments:						
4.42	Seeps and/or springs pre	ach	Seeps and/or springs not present in reach				
1.13 Contract Contract	1.5			0			
Seeps and Springs	Notes/Comments:						
1.14	Iron-oxizing bacteria/fun	Iron-oxizing bacteria/fungi present in reach			cteria/fun	gi not pressent in reach	
Iron Oxidizing	1.5					0	
Bacteria/Fungi	Notes/Comments:						
				TOTAL POINTS (1	L.1-1.14)		
Total <9, the stream is de	etermined to be EPHEMERAL.				,		
Total ≤9 and <12, the strop	eam is determined to be INTER	MITTENT L	Intil further analysis	indicates otherwise			
$1 \text{ otal} \ge 12.0 \text{ and} \le 19.0, t$ Total > 19.0 and < 22.0 t	he stream is determined to be		LENT Luntil further analys	is indicates otherwis	e		
Total > 22.0, the stream	is determined to be PERENNIAL	L.					
						EXHIBIT	

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