## 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	WQS as found under NMAC (20.6.4): Assessment Unit:							
Starting Latitude:				Ending L	atitude:			
Starting Longitude:	tarting Longitude: Ending Longitude:							
Starting Elevation: Ending Elevation:					:			
TOTAL POINTS*:								
*See Hydrology Proto	ocol for determin	ation		_			ı	
	DROUGHT CONDITIONS:			Nearest weather 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:			48 hours:	% cloud cover		% cloud cover	
	Date Obtained:			clear/sunny		clear/sunny		
	**Field evaluations should be performed at least 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 CHANNEL	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)	Flood-prone Width to Bankfull Width Ratio:							
	Alternative Methods used (describe)?							
	Time	Photo #		Description		Identifiable Refe	erences	Photographer
PHOTO DOCUMENTATION								
(include additional								
photographs as								
attachment)								
OTUED SITE								
OTHER SITE CHARACTERISTIC NOTES/ SCHEMATICS				,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,		22222		

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 evident		rocks/debris				
Water In Channel	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 searching)			
	throughout reach	■ Not consistent	searching)				
1.2		throughout reach					
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 searching)			
1.3	throughout reach	■ Not consistent	searching)				
Benthic		throughout reach					
Macroinvertebrates in Channel	3	2	1	0			
in Chamiei	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 searching)			
Filamentous	throughout reach	■ Not consistent	searching)				
Algae/Periphyton in		throughout reach					
Channel	3	2	1	0			
Channel	Notes/Comments:			-			
	,	☐ Distinct riparian corridor	☐ Minimal compositional	☐ No compositional			
	= -	-	species difference between	'			
	upland and riparian	reach	upland and riparian	upland and riparian			
	corridor	☐ Compositional species	corridor	corridor			
	☐ Distinct riparian corridor	difference between upland	☐ Vegetation growing	☐ Vegetation growing			
1.5	exists along entire reach	and riparian corridor	along the riparian area	along the riparian cooridor			
Vegetation along	☐ Riparian, aquatic or	☐ Riparian species	occurs in greater density or	does not occur in greater			
cooridor (within	wetland species dominate	interspersed with upland	grows more vigorously	density or grow more			
floodplain)	entire reach	species	than in the adjacent	vigorously than in the			
			uplands	adjacent uplands			
	3	2	1	0			
	Species Observed and		_	J J			
	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			
1.6	streambed/thalweg	streambed/thalweg	throughout the	streambed/thalweg			
Rooted Upland	_	_	streambed/thalweg	_			
Plants in Channel	3	2	1	0			
	Species Observed and			-			
	Notes/Comments:						
	SUBTOTAL (1.1-1.6)						

	☐ Calculated ratio > 1.4 ☐ Calcula		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:					
	□ Observed							
	☐ Calculated ratio > 2.5		☐ Calculated ratio			ated ratio < 1.2		
	☐ Minimally confined		☐ Moderately confined		☐ Incised/confined channel			
1.8	☐ Wide, active floodplain		☐ Floodplain active during larger			ain absent or narrow		
Floodplain and			events		☐ Flood	olain not connected		
Channel Dimensions				5		0		
	□ Calculated Notes/Comments:							
	☐ Observed	_		· · ·		I <b></b>		
	☐ Frequent number of			☐ Mostly has area	is of	☐ No riffles or pools		
1.9	riffle and pools observed riffle and		-	pools <u>or</u> of riffles		observed		
In-Channel	throughout reach		tion between					
Structure: Riffle-	Obvious transition		d pools difficult to					
Pool Sequence	between riffles and pools	distingui		1		0		
i ooi oequenice	Nata (Carana ata)		2	1		0		
	Notes/Comments:							
	le a contra de la contra del la contra de la contra del la contra del la contra de la contra de la contra del		<b>.</b>	SUBTOTAL				
	☐ Particle sizes in the chann		☐ Particle sizes in			le sizes in the channel are		
	noticeably different from pa		moderately similar to particle sizes		similar or comparable to particle			
		the flood	outside the channel in the flood-		sizes outside the channel in the flood-			
1.10	prone area.		prone area.			prone area.		
Particle Size or	☐ Clear distribution of various sized ☐ Various sized					rate sorting is not readily		
Stream Substrate	substrates in the stream channel. present in the stre				observed	I in the stream channel.		
Sorting		☐ Higher ratio of (gravel/cobble).			larger particles			
	3			1.5		0		
	□ Calculated	Notes/Co	omments:					
	☐ Observed							
1.11	☐ Hydric soils wer	e observed in reach		☐ Hydric soils were not observed in reach				
Hydric Soils Within		3		0				
Flood-Prone Area	Notes/Comments:			·		I		
	☐ Sediment found readily			•		☐ No sediment is present		
	on plants and debris in:	-	t on plants and	debris is isolated in		on plants or debris.		
1.12	channel debris.			amounts along the	sample			
Sediment on Plants	□ streambank	accumlated on plants and		reach.				
and Debris	☐ floodplain							
	1.5	debris in	1 0.5			0		
	Notes/Comments:		1	0.5		U		
	,		☐ Seeps and/or springs not present in reach					
1.13		☐ Seeps and/or springs present in reach			O Seeps and/or springs not present in reach			
Seeps and Springs	1.5			U				
	Notes/Comments:							
1.14	☐ Iron-oxizing bacteria/fung	in reach	☐ Iron-oxizing bacteria/fungi not pressent in reach					
Iron Oxidizing	1		0					
Bacteria/Fungi	Notes/Comments:							
				TOTAL POINTS (1	l.1-1.14)			
	etermined to be EPHEMERAL.							
	eam is determined to be INTERI the stream is determined to be I			indicates otherwise				
	the stream is determined to be I			is indicates otherwise	e			
	is determined to be PERENNIAL							