TABLES

TABLE 3-1. DELINEATION METHODOLOGY PROJECT WORK TASKS

TASK	DESCRIPTION
1	Analyze applicable court rulings and instructions concerning scientific principles
2	Define goals and objectives for methodology and subflow zone delineation
3	Simplify details of surface geologic mapping while minimizing interpretation and focusing reader attention
4	Select potential indicators of floodplain Holocene alluvium and available data sources
5	Develop, test and finalize Geology & Topography analysis methods
6	Develop, test and finalize Lithology & Well Level analysis methods
7	Develop, test and finalize Riparian analysis methods
8	Develop methods for applying Setbacks for Side Recharge
9	Select analysis areas for comprehensive watershed methodology
10	Develop standardized methods for organizing information at every river mile
11	Develop standardized methods for comprehensive analysis of subflow zone delineation
12	Perform draft comprehensive analysis for limited reach and present results

TABLE 3-2. ANALYSIS AREAS FOR COMPREHENSIVE WATERSHED METHODOLOGY[1]

ANALYSIS AREA	DOWNSTREAM LANDMARK	UPSTREAM LANDMARK	LENGTH[2]
Winkelman	Gila Confluence	USGS 09472500 nr Mammoth	23
Redington-Mammoth	USGS 09472500 nr Mammoth	USGS 09472050 nr Redington	28
Narrows-Redington	USGS 09472050 nr Redington	USGS 09471800 at The Narrows	31
Benson	USGS 09471800 at The Narrows	USGS 09471550 at Fairbank	37
Sierra Vista (Lower)	USGS 09471550 at Fairbank	Narrows at Lewis Springs	15
Sierra Vista (Upper)	Narrows at Lewis Springs	US-Mexico Border	23
Aravaipa Creek	San Pedro Confluence	Predevelopment Perennial/Intermittent Flow[3]	36
Babocomari River	San Pedro Confluence	Predevelopment Perennial/Intermittent Flow[3]	21

Notes:

[1] Analysis Areas are depicted on Figure 3-1.

[2] Lengths in miles measured downstream to upstream for San Pedro River (157), Aravaipa Creek (36) and Babocomari River (21).

[3] Upstream extent of predevelopment perennial or intermittent flow identified in 2009 Subflow Report.

TABLE 3-3. SURFACE GEOLOGY BASE MAP UNITS AND AGE AND NAMING CONVENTIONS[1]

HOLOCENE DEPOSITS		PLEISTOCENE DEPOSITS	
Holocene River Alluvium	Qycr, Qy1r, Qy2r, Qy3r, Qy4r	**Late Pleistocene River Alluvium**	Qi3r
Holocene Piedmont Alluvium	Qy, Qyc, Qy1, Qy1f, Qy2, Qyaf, Qy3	**Older Pleistocene River Alluvium**	Qcr, Qir, Qi1r, Qi1l?, Qi2r, Qor
Other Holocene Deposits	Qys, Qyp, Qp, Qs, Qyi	**Pleistocene Piedmont Alluvium**	Qi, Qi1, Qi2, Qi2a, Qi2b, Qi3, Qi3a, Qi3c, Qiu, Qo, Qcg
TERTIARY AND OLDER DEPOSITS			
Tertiary Deposits	QTa, QTbf, QTcg, QTcr, QTcs, QTs, QTsc, QTsd, QTsf, QTsl, QTsr, QTs, Tq, Tqa, Tqc, Tqe, Tqf, Tql, Tqm, Tqp, Tqr, Tqs, Tqse, Ts, Tsd, Tsdl, Tsp, Tsy	**Bedrock**	Ꞓa, Ꞓal, Ꞓam, Ꞓau, Ꞓb, db, Dm, ds, gru, Jtrm, Jtrms, Ka, Kad, Kai, Kam, Kap, Kb, Kbi, Kdx, Kg, Kgs, KJb, Kl, Kr, Kra, Krd, Krt, Ks, Kt, Ktx, Ku, Kux, Kuxa, Me, Mzs, Pc, Pcn, Pe, **P**hMet, pi, P**P**eht, P**P**et, Ps, py, Qc, Ql, Qt, QTC, Qtc, Ta, Tad, Tar, Taru, Tcb, Tcd, Tcg, Tcv, Tg, Tgm, Tgv, Th, Thh, Thj, TKh, TKm, tl, Tlav, Tro, Trx, Tsc, Tsmm, Tsmv, Ttb, tu, Tuav, Tvm, Tw, Twt, Xdj, Xgj, Xp, Yd, Yds, Ydsb, Ym, Yo, Yoa, Yp, Yt

Notes:

[1] Map units and age and naming conventions are described in a 2009 report by the Arizona Geological Survey (AZGS). In addition, mapped as "Disturbed" are areas that are heavily disturbed due to agriculture or extensive excavation/construction where units were not detemined.

TABLE 3-4. TEMPLATE FOR RIVER MILE SUMMARY - ANALYSIS TABLES

RIVER MILE SUMMARY/ANALYSIS WORKSHEET			Analysis Area: _____					Analysis Subarea: _____				
River Mile Posts →			X	X+1	X+2	X+3	X+4	X+5	X+6	X+7	X+8	X+9
Landmarks												
ANALYSIS	Riparian Growth	Mesquite-Salt Cedar										
		Cottonwood-Willow										
	Information from 'geologist logs' or other professional work											
	Results of Water Level Analysis											
	Results of Cross-Section Analysis											
EAST SIDE OF RIVER	Confluences with Significant Tributary Side Drainages											
	Pre-Holocene Bounding Geology	Age										
GEOLOGY BASE & FHA BASE INFORMATION		Width of "Inner Limit"										
		Width of "Outer Limit"										
WEST SIDE OF RIVER	Pre-Holocene Bounding Geology	Age										
	Confluences with Significant Tributary Side Drainages											

TABLE 4-1. FINDINGS OF PRELIMINARY TOPOGRAPHIC CROSS-SECTION ANALYSIS FOR SAMPLE SUBAREA

IDENTIFIED 1ST SIGNIFICANT TOPOGRAPHIC FEATURE TO WEST OF RIVER					CROSS-SECTION LINE	IDENTIFIED 1ST SIGNIFICANT TOPOGRAPHIC FEATURE TO EAST OF RIVER				
Notes	beyond "outer"	at "outer limit"	between "inner" & "outer"	at "inner limit"		at "inner limit"	between "inner" & "outer"	at "outer limit"	beyond "outer"	Notes
Location of known limit of FHA.	*NA*				**82-A***	+				
		+			**82-B**				+	"Outer" limit extrapolated at this location.
		+			**82-C**			+		
		+			**83-A**		+			Feature may be related to a side drainage. Area for further investigation.
		+			**83-B***			+		
			+		**84-A**	+		+		"Inner" and "outer" limits nearly coincide.
			+		**85-A***	***No significant slope breakpoints or other features***				Section line skewed from normal. Repeat using re-oriented section line.
		+			**86-A**	+				
	No significant slope breakpoints or other features				**87-A**	*NA*				Location of known limit of FHA.
		+			**88-A***			+		
			+		**88-B***		+			
Location is at edge of extrapolated "outer" limit.	+				**89-A***		+			
		+			**90-A***		+			
			+		**90-B**			+		

Notes:

An asterisk (*) denotes a cross-section for which a figure is included in this report. NA - Not Applicable