

# Exhibit 1.5: Required Expertise for Cultural Resources Actions

The tables below outline the types of expertise that are required for actions under the Section 106 Programmatic Agreement and for State-only projects (Table 1) and for archaeological activities (Table 2).

TABLE 1 PQS LEVELS REQUIRED FOR ACTIONS TAKEN UNDER SECTION 106 PA							
ACTION TAKEN UNDER SECTION 106 PA	PQS Level						
	Lead Archaeological Surveyor	Co-Principal Investigator Prehistoric	Co-Principal Investigator Historical	Principal Investigator Prehistoric Archaeology	Principal Investigator Historical Archaeology	Architectural Historian	Principal Architectural Historian
Screen an undertaking	✓+	✓+	✓+	✓+	✓+	✓+	✓+
Set and sign APE in consultation with Project Engineer	✓+	✓+	✓+	✓+	✓+	✓+	✓+
Determine archaeological property types in Section 106 PA Attachment 4 as exempt from evaluation		✓	✓	✓	✓		
Determine architectural & historical property types 1, 2, and 3 exempt from evaluation in Section 106 PA Attachment 4	✓	✓	✓	✓	✓	✓	✓
Determine architectural and historical property types 4, 5, and 6 exempt from evaluation in Section 106 PA Attachment 4						✓	✓
Conduct archaeological Extended Phase I (prehistoric)		✓		✓			
Conduct archaeological Extended Phase I (historical)			✓		✓		
Evaluate historical archaeological site (excavation <i>not</i> required)			* +		✓ +		

TABLE 1 PQS LEVELS REQUIRED FOR ACTIONS TAKEN UNDER SECTION 106 PA							
ACTION TAKEN UNDER SECTION 106 PA	PQS Level						
	Lead Archaeological Surveyor	Co-Principal Investigator Prehistoric	Co-Principal Investigator Historical	Principal Investigator Prehistoric Archaeology	Principal Investigator Historical Archaeology	Architectural Historian	Principal Architectural Historian
Evaluate prehistoric archaeological site		*		✓			
Evaluate historical archaeological site (excavation required)			* +		✓ +		
Evaluate Native American TCP				✓			
Evaluate non-Native American TCP					✓ +		✓ +
Evaluate built environment feature (ditches, roads, trails, RR grades)			* +		✓ +	* +	✓ +
Evaluate vernacular landscapes					✓ +	* +	✓ +
Evaluate buildings, structures (including bridges), objects, and districts						✓	✓
Evaluate designed landscapes (parks, formal gardens, etc.)						✓	✓
Evaluate historic-era sites (battlefields, treaty-signing sites, internment camps, etc.)					✓ +	✓ +	✓ +
Establish Environmentally Sensitive Areas (ESA) for archaeological sites (prehistoric or historical)		✓	✓	✓	✓		
Establish ESA for non-archaeological property				✓ +	✓ +		✓
Conduct archaeological data recovery (prehistoric sites)		*		✓			
Conduct archaeological data recovery (historical archaeological sites)			*		✓		
Peer review archaeological studies with no properties identified		✓	✓	✓	✓		
Peer review archaeological studies with eligibility determinations (eligible or ineligible), ESAs, data recovery (prehistoric sites)				✓			
Peer review archaeological studies eligibility determinations (eligible or ineligible), ESAs, data recovery (historical archaeological sites)					✓		

TABLE 1 PQS LEVELS REQUIRED FOR ACTIONS TAKEN UNDER SECTION 106 PA							
ACTION TAKEN UNDER SECTION 106 PA	PQS Level						
	Lead Archaeological Surveyor	Co-Principal Investigator Prehistoric	Co-Principal Investigator Historical	Principal Investigator Prehistoric Archaeology	Principal Investigator Historical Archaeology	Architectural Historian	Principal Architectural Historian
Peer review built environment studies and ESAs							✓
Peer review Findings Of Effect (FOE) and Memoranda of Agreement (MOA)				✓+	✓+		✓+
Review for DEBC approval: Historic Property Survey Reports to File and Review Historical Resource Compliance Reports to File <i>except</i> for No Historic Properties Affected with historic properties in the APEs	✓	✓	✓	✓	✓	✓	✓
Review for DEBC approval: Historic Property Survey Reports to File-No Historic Properties Affected <i>with historic properties</i> in the APE				✓	✓		✓
Review for DEBC approval: Historic Property Survey Reports to SHPO <i>except</i> for No Adverse Effect with Standard Conditions	✓	✓	✓	✓	✓	✓	✓
Review for DEBC approval: Historic Property Survey Reports to SHPO for No Adverse Effect with Standard Conditions				✓	✓		✓
Review FOEs and MOAs for DEBC approval				✓	✓	✓	✓

- Key: ✓ = PQS level(s) qualified to perform task  
 \* = PQS level(s) qualified to perform task with review from higher level  
 + = Interdisciplinary collaboration *strongly* recommended

Note: Archaeological Crew Members may assist in archaeological surveys and excavations under the direction of a qualified Lead Archaeological Surveyor or higher

Table 2 below indicates what roles the different PQS staff levels are qualified to play in different types of archaeological studies.

TABLE 2 PQS LEVELS REQUIRED FOR ARCHAEOLOGICAL ROLES								
ACCEPTABLE QUALIFICATION LEVELS FOR EACH ROLE BY STUDY TYPE								
Role Played in Study	Survey	Extended Phase I - Prehistoric	Extended Phase I - Historical	Site Evaluation Prehistoric	Site Evaluation Historical	Data Recovery – Prehistoric	Data Recovery – Historical	Construction Monitoring
Crew Member	1, 2, 3P, 3H, 4P, 4H	1, 2, 3P, 3H, 4P, 4H	1, 2, 3P, 3H, 4P, 4H	1, 2, 3P, 3H, 4P, 4H	1, 2, 3P, 3H, 4P, 4H	1, 2, 3P, 3H, 4P, 4H	1, 2, 3P, 3H, 4P, 4H	1, 2, 3P, 3H, 4P, 4H
Crew Chief	2, 3P, 3H, 4P, 4H	2, 3P, 3H, 4P, 4H	2, 3P, 3H, 4P, 4H	2, 3P, 3H, 4P, 4H	2, 3P, 3H, 4P, 4H	2, 3P, 3H, 4P, 4H	2, 3P, 3H, 4P, 4H	2, 3P, 3H, 4P, 4H
Principal Investigator	2, 3P, 3H, 4P, 4H	3P, 3H, 4P, 4H	3H, 4H	4P	3H*, 4H	3P*, 4P	3H*, 4H	3P, 3H, 4P, 4H
Primary Author of Report	2, 3P, 3H, 4P, 4H	3P, 3H, 4P, 4H	3H, 4H	4P	4H	4P	4H	3P, 3H, 4P, 4H
Secondary Author of Report	1, 2, 3P, 3H, 4P, 4H	1, 2, 3P, 3H, 4P, 4H	1, 2, 3P, 3H, 4P, 4H	1, 2, 3P, 3H, 4P, 4H	1, 2, 3P, 3H, 4P, 4H	1, 2, 3P, 3H, 4P, 4H	1, 2, 3P, 3H, 4P, 4H	1, 2, 3P, 3H, 4P, 4H
Contract Coordinator	3P, 3H, 4P, 4H	3P, 3H, 4P, 4H	3P, 3H, 4P, 4H	3P, 4P	3H, 4H	3P, 4P	3H, 4H	3P, 3H, 4P, 4H

**Key**  
 1 = Archaeological Crew Member  
 2 = Lead Archaeological Surveyor  
 3P = Co-Principal Investigator – Prehistoric Archaeology  
 3H = Co-Principal Investigator – Historical Archaeology  
 4P = Principal Investigator – Prehistoric Archaeology  
 4H = Principal Investigator – Historical Archaeology  
 \* = PQS level(s) qualified to perform task with review from higher level

**Example:** Only individuals certified as a Co-Principal Investigator (Historical) or Principal Investigator (Historical) are qualified to serve as Principal Investigator at data recovery excavations at a historic archaeological site. Asterisk indicates that the Co-PI should be overseen by a PI.