Chapter 19

Aesthetics and Visual Resources

19.1 Affected Environment

This chapter describes the affected environment related to aesthetics and visual resources for the dam and reservoir modifications proposed under the SLWRI.

Because of the potential influence of the proposed modification of Shasta Dam on water deliveries over a large geographic area, the SLWRI includes both a primary study area and an extended study area. The primary study area has been further divided into Shasta Lake and vicinity and the upper Sacramento River (Shasta Dam to Red Bluff). The extended study area consists of the lower Sacramento River and Delta and the CVP/SWP service areas.

19.1.1 Visual Environment

Both natural and artificial landscape features contribute to perceived visual images and the aesthetic value of a view. The value is determined by contrasts, forms, and textures exhibited by the natural environment (e.g., geology, hydrology, vegetation, and wildlife), as well as human-made features. The aesthetic value of an area is a measure of its visual character and quality combined with the viewer's response to the area (DOT 1981). In general terms, the visual landscape is considered to be a vital component of an area's overall resource value. The ability of the landscape to undergo alteration without losing its visual character is considered important for the maintenance of high scenic value. As development deviates from the natural landscape, visual impacts increase. The visual impacts of a project are determined by a number of factors, including effects on the visual character and quality (e.g., form, line, color, and texture), visual exposure, viewer sensitivity, and the number of viewers who are expected to see the project.

People respond differently to changes in the physical environment, depending on their prior experiences and expectations, their proximity to the views, and the length of time the view is visible to them. Visual effects analyses tend to be highly subjective. For this reason, aesthetics and visual resources are addressed qualitatively rather than quantitatively.

This section focuses on the primary study area consisting of Shasta Lake and vicinity and the upper Sacramento River from Shasta Dam downstream to Red Bluff. The focus is on the primary study area because implementation of the project would have virtually no effect on aesthetic values and visual resources in the extended study area.

The visual environment, or character, is a function of both the natural and artificial landscape features that make up a view. The character of any given area is influenced by geologic, hydrologic, botanical, wildlife, recreational, and urban features. The perception of visual character can vary significantly as season, hour, light, shadow, weather, and the other elements of a view change. Form, line, color, and texture are the basic components used to describe visual character and quality for most visual assessments (DOT 1981). The dominance of each of these components on the landscape forms the viewer's impression of the landscape, and therefore, the aesthetic value of the landscape. The aesthetic value of an area is a measure of its visual character and scenic quality combined with the viewer response.

The overall sensitivity and response of a viewer to the quality of a view is based on a combination of viewer exposure and viewer sensitivity. "Viewer exposure" refers to the visibility of resources in the landscape, the proximity of the vantage point to the view, the elevation of the viewer relative to the view, the frequency and duration of the viewing, the number of observers, and the preconceived expectations of individual viewers or groups. "Viewer sensitivity" refers to the extent of the public's concern for particular landscapes. Judgments of visual quality and viewer response should be based on a regional frame of reference The geographic setting and nature of the visual resource will significantly influence the degree of visual quality and sensitivity experienced by the viewer. For example, the presence of a small hill in an otherwise flat landscape may be considered a significant visual element, but a hill of the same size may have very little significance when located in mountainous terrain.

For purposes of this report, a viewshed is defined as the surface area visible from a particular location (e.g., a highway pull-out, campground, or marina) or sequence of locations (e.g., along a highway or trail). The scenic attractiveness and distance zones also influence the aesthetic value of a viewshed.

Scenic Attractiveness

Scenic attractiveness is classified as:

- Class A "distinctive" Areas where landform, vegetation patterns, water characteristics, and cultural features combine to provide unusual, unique, or outstanding scenic quality. These landscapes have strong positive attributes of variety, unity, vividness, mystery, intactness, order, harmony, uniqueness, pattern, and balance.
- Class B "typical" Areas where landform, vegetation patterns, water characteristics, and cultural features combine to provide ordinary or common scenic quality. These landscapes generally have positive, yet common, attributes of variety, unity, vividness, mystery, intactness, order, harmony, uniqueness, pattern, and balance.

• Class C "indistinctive" – Areas where landform, vegetation patterns, water characteristics, and cultural features have low scenic quality. Water and rock forms of any consequence are often missing in Class C landscapes. These landscapes have weak or missing attributes of variety, unity, vividness, mystery, intactness, order, harmony, uniqueness, pattern, and balance.

Class A and B visual resources typically are found in State or Federal parks, recreation areas, and wilderness areas, including rivers and lakes. Class C resources generally are areas that have low scenic quality and consist of more common landscapes.

Distance Zones

In addition to scenic attractiveness, three primary distance zones are used, as appropriate, to characterize the viewsheds described in the following sections. These distance zones, described below, are foreground, middle ground, and background.

- **Foreground** (**0 to 0.5 mile**) At a foreground distance, people can distinguish small boughs or leaf clusters, tree trunks and large branches, individual shrubs, clumps of wildflowers, medium-sized animals, and medium to large birds.
- **Middle ground (0.5 to 4 miles)** At a middle ground distance, people can distinguish individual tree forms, large boulders, flower fields, small openings in the forest or tree line, and small rock outcrops. Form, texture, and color remain dominant and pattern is important.
- **Background** (4 miles to horizon) At a background distance, people can distinguish groves or stands of trees, large openings in the forest, and large rock outcrops. Texture is not detectable and color has flattened, but large patterns of vegetation or rocks are still distinguishable, and landform ridgelines and horizon lines are the dominant visual characteristics.

Shasta Lake and Vicinity and Upper Sacramento River (Shasta Dam to Red Bluff)

For purposes of the aesthetics and visual resources assessment, the primary study area encompasses Shasta Lake and vicinity and the upper Sacramento River in Northern California. Shasta Dam is located about 9 miles northwest of Redding, and the dam and the entire reservoir are in Shasta County. The Shasta Lake and vicinity portion of the primary study area is composed of Shasta Dam and Shasta Lake and the lower reaches of the tributaries draining into Shasta Lake. The upper Sacramento River portion includes dam-related infrastructure downstream from the dam, Keswick Reservoir, and watersheds that are tributary to the Sacramento River downstream to Red Bluff.

1 The terrain of the primary study area is extremely diverse and includes the mountainous terrain surrounding Shasta Lake as well as the landscapes of the 2 3 Central Valley below Keswick Reservoir. Upstream from Keswick Reservoir, 4 slopes are characterized by a mix of pine and oak forests and, to varying 5 degrees, chaparral and rock outcrops. The landscape includes topographic features of the Klamath Mountains, the southern Cascade Range, and the 6 7 Central Valley. Two volcanic features – Mount Shasta and Mount Lassen – can 8 be seen from numerous vantage points throughout the area. 9 Shasta Lake is the central visual attraction of the primary study area. It is the largest lake in the Whiskeytown-Shasta-Trinity National Recreation Area 10 (NRA). The Shasta-Trinity Unit of the NRA is managed by the USFS Shasta-11 Trinity National Forest (STNF) to provide high-quality recreational experiences 12 and visual perceptions to the public. Shasta Lake offers the public a variety of 13 14 outdoor recreational experiences and activities, including boating, water-skiing, swimming, fishing, camping, picnicking, hiking, hunting, and mountain biking. 15 Recreation at the lake is managed by USFS consistent with the STNF Land and 16 17 Resource Management Plan (LRMP) and guidelines established for the Whiskeytown-Shasta-Trinity NRA. 18 19 Shasta Lake has a surface area of 29,500 acres, with a shoreline of about 420 20 miles. Currently, there are 10 marinas on Shasta Lake, most of which are 21 located in coves. Although numerous campgrounds provide facilities for land-22 based recreation, the primary recreational use of the lake is water-based. Many 23 types of boats use the lake, including private and commercial houseboats, 24 powerboats, and personal watercraft. 25 The construction of Shasta Dam inundated the canyons of the Sacramento, Pit, and McCloud rivers, as well as numerous tributaries. The diversity of visual 26 27 experiences at Shasta Lake and the surrounding slopes is influenced by fluctuating water levels, compounded by human-made features such as 28 Interstate 5 (I-5), the Union Pacific Railroad (UPRR), and electrical 29 30 transmission facilities. A variety of commercial and residential uses occurs in, 31 on, or near Shasta Lake. 32 Shasta Lake is crossed from north to south by I-5 via the Pit River Bridge at the 33 western end of the Pit Arm and the Antlers Bridge near the northern end of the Sacramento Arm. Views from both of these bridges are dominated by Shasta 34 35 Lake and the surrounding landscapes; the views encompass minimal 36 development, although Bridge Bay Resort can be clearly seen from the southbound lanes of the Pit River Bridge and some commercial and residential 37 38 development can be seen from the Antlers Bridge. 39 The STNF LRMP classifies National Forest System (NFS) lands based on 40 visual quality objectives (VQO). VQOs identify how much a management activity can contrast visually with the character of the landscape. The Shasta-41 Trinity Unit of the NRA includes lands managed by the STNF to meet the 42

13 14 following VQOs: modification, partial retention, and retention. Areas designated as "modification" are typically developed areas, such as campgrounds, marinas, and boat launch ramps, with management activities in the foreground and a natural appearance in the middle ground. "Partial retention" refers to those areas where management activities remain visually subordinate on the landscape. "Retention" areas are those where management activities are not visually evident.

The LRMP defines three principal criteria to classify VQOs: (1) sensitivity levels, (2) scenic quality of the landscape, and (3) distance from the main viewing areas. Table 19-1 compares the acreage of VQOs (as defined in the LRMP) to the total area of NFS lands managed by USFS in the Shasta-Trinity Unit of the Whiskeytown-Shasta-Trinity NRA.

Table 19-1. Shasta-Trinity National Forest Inventoried Visual Quality Objectives

Inventoried VQO		Lands 34 acres)	NRA Lands (Shasta-Trinity Unit) (121,505 acres)	
	Acres ¹	Percent ²	Acres ³	Percent⁴
Preservation	498,700	18	28,095	23
Retention	175,000	6	92,387	76
Partial Retention	590,600	22	0	0
Modification	597,600	22	1,112	1
Maximum Modification	259,100	10	0	0

Sources: USFS 1995b, 2007

Notes:

Key:

LRMP = Land and Resource Management Plan

NFS = National Forest System

VQO = visual quality objective

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In the NRA, Shasta Dam and Shasta Lake are the dominant components of the visual environment. The lake, combined with constructed facilities (e.g., Shasta Dam, Pit River Bridge, Bridge Bay Resort) and natural features (e.g., mountains, rivers, canyons, vegetation) observable from various locations have a substantial influence on the visual character of the existing landscape.

The remaining parts of this section describe the visual resources in the primary study area. Much of the content of these descriptions was taken from reconnaissance-level data gathered during the SLWRI by Reclamation and its consultants. The STNF also provided information used to characterize these

¹ Number of acres of lands of the VQO type in the LRMP management area (NFS land only)

² Percentage of lands of the VQO type in the LRMP management area (NFS land only)

Number of acres of land by VQO type in the NRA (Shasta-Trinity Unit) management area (NFS land only)

⁴ Percentage of lands by VQO type in the LRMP management area (NFS land only)

visual resources. Visual resources are described in terms of visual sensitivity 1 2 and viewer response. **Viewsheds** A number of factors can influence the aesthetic value of viewsheds 3 in the primary study area, which are dominated by constructed features and 4 5 natural landscapes. Although exposed surfaces associated with grading and barren shoreline may be obvious, factors such as vegetation, lighting, and glare 6 7 can also substantially influence these viewsheds both spatially and temporally. 8 The viewshed types that occur in the primary study area are listed below and described in the following sections: 9 10 Panoramic views 11 Vista points 12 Landscape features Distinctive built features 13 14 Built features (detractions) Exposed shoreline of Shasta Lake 15 16 External views Panoramic Views A panoramic view is defined as the unbroken view of an 17 18 entire surrounding area. In the Shasta Dam and Shasta Lake area, panoramic 19 viewing opportunities are governed by the elevation, aspect, and location of the viewer. The steep, mountainous topography around Shasta Lake largely 20 influences the degree to which any given area can be seen from a particular 21 22 vantage point. Vegetation, lighting, and glare also influence a panoramic view. For example, panoramic views as seen from the lake level vary greatly from 23 24 those seen from the I-5 corridor higher up the slope. 25 The contrast between Shasta Lake and the surrounding mountains affords visitors a diversity of views from various locations around the lake. The length 26 27 and configuration of the shoreline of Shasta Lake coupled with the mountainous terrain represent an important visual and scenic resource in the region. 28 29 Panoramic viewsheds are plentiful throughout the primary study area. Among the most dramatic and high-quality views is that of the so-called "Three 30 31 Shastas," consisting of Shasta Dam, Shasta Lake, and Mount Shasta. The photograph in Figure 19-1, taken from the State Route (SR) 151 vista point 32 above the Shasta Dam Visitor Center, illustrates the Three Shastas with the dam 33 in the foreground, the lake in the middle ground, and Mount Shasta in the 34 background. This view is a widely publicized panorama that draws large 35 36 numbers of visitors to the area annually. Class A and B views extend for miles to the north, east, and west from the SR 151 vista point. 37

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For purposes of this assessment, panoramic viewsheds consist primarily of views visible from locations immediately adjacent to or above Shasta Dam that are subject to heavy use (e.g., Bridge Bay Resort, Shasta Dam Visitor Center. the I-5 corridor). However, some less accessible, but nonetheless important, locations such as residences, campgrounds, marinas, and other facilities may also provide opportunities for panoramic views and thus



Figure 19-1. Panoramic view of the Three Shastas (Shasta Dam, Shasta Lake, and Mount Shasta) as seen from the State Route 151 Vista Point

have been included in the assessment of potential impacts on panoramic views.

Vista Points Vista points differ from panoramic views in the level of visible expanse. Panoramic views encompass an entire surrounding area, whereas views from vista points are limited by what can be seen through an opening, such as between rows of trees or buildings. Shasta Lake and the surrounding

area offer almost limitless viewing opportunities. Viewsheds have been assessed based on sites that are representative of popular use areas such as marinas, residences, and other recreational features.

Most of the shoreline around the lake (above the ordinary high-water line) is heavily vegetated and its topography varies significantly. Views from most onshore recreation areas are limited by stands of trees and undulating banks. Figure 19-2 shows a view of



Figure 19-2. Typical View of Shasta Lake from a Lakeside Campsite (taken from the Dekkas Rock Campground, McCloud Arm)

the lake from a typical lakeside campsite, in this case the Dekkas Rock Campground located on the McCloud Arm. Views of the shoreline from the water are also influenced by topography and vegetation. Although large expanses of the shoreline may be visible to boaters, lake elevation and bank topography ultimately determine what can be seen by boaters.

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Landscape Features "Landscape feature" is a term used to describe the land characteristics of a particular area, such as a forested or mountainous site. Several landscape features characterize the primary study area, including forest, rocky outcrops, and urban development. Well-known landscape features in the primary study area include Shasta Dam, Mount Shasta, the Sundial Bridge, and the Sacramento River. The distance of the feature



Figure 19-3. Some of the Distinctive Landscape Features Visible from the Bridge Bay Resort, Including a Portion of the Bridge Bay Resort

upstream from Shasta Dam, coupled with variations in lake levels, influences the view of landscape features. As the lake level falls, the various arms look more like rivers (e.g., channelized, boulder-strewn) and less like a lake. Figure 19-3 illustrates some of the distinctive landscape features visible from a portion of the Bridge Bay Marina, the Pit River Bridge, and limestone outcrops located along the McCloud Arm.

Distinctive Built Features The aesthetic quality of a distinctive built feature is subject to individual interpretation. This subjective interpretation is influenced by the contrast of these features with their setting. For example, engineered features such as Shasta Dam and its infrastructure (Figure 19-4) can be considered to detract from the "natural" character of the setting, because some viewers might argue that the natural character of the



Figure 19-4. Shasta Dam and Infrastructure

features inundated by Shasta Lake is its greatest strength. The dam, which was completed in 1945, is a curved concrete gravity-type dam containing 6.5 million cubic yards of concrete weighing 15 million tons. It is the second largest dam in mass in the United States. (Grand Coulee Dam on the Columbia River in Washington State is the largest.)

The 3,460-foot-long dam is 602 feet high, 543 feet thick at the bottom, and 30 feet thick at the top (Reclamation 2005). The face of the dam covers 31 acres, equal to 6 football fields and their stadiums, and the 487-foot spillway is the largest built waterfall in the world – three times the height of Niagara Falls. The spillway, as seen from the west, measures 375 feet in width with 3 drum gates, each 110 feet wide, 28 feet tall, and weighing 500 tons. There are 18 outlets on the face of the dam, each 8½ feet in diameter (large enough to drive a pickup truck through) with a maximum spillage capacity of 186,000 cubic feet per second.

With more than 400 miles of shoreline, Shasta Lake is the largest human-made lake in California. The water storage capacity is more than 4.5 million acre-feet. The surface area of the lake is 29,740 acres, and the lake drains 6,665 square miles (Reclamation 2005). The lake is one of the major landmarks in Northern California.

Built Features (Detractions) An opinion concerning the attractiveness of a built feature is formed by the viewer's perception, biases, and personal preferences. A feature seen as an eyesore by one viewer may very well be considered attractive by another. Built features such as bridges, structures, roads, power transmission lines, and water storage tanks are generally visible only from site-specific locations (e.g., the visitor center, marinas, sections



Figure 19-5. Examples of Built Features in the Primary Study Area

of I-5) in the primary study area. Figure 19-5 shows an example of built features found in the primary study area (in this case, a railroad bridge in the foreground and the Antlers/I-5 Bridge in the background, as seen from Lakeshore Drive).

Additional built features of interest in the primary study area include bridges, roads, utilities, and commercial, administrative, and residential structures.

Exposed Shoreline of Shasta Lake Currently, Shasta Lake reaches or nearly reaches full pool levels about once every 5 years. Because it is a reservoir, water levels fluctuate in response to climatic conditions and operational requirements. Typical operational scenarios involve drawing the reservoir down during the demand period (May through October) and storing runoff during the winter/spring period. By its nature, the amount of shoreline exposed below the full pool level elevation fluctuates daily. In extremely dry years, more than 200 vertical feet of shoreline may be exposed for extended periods through the fall.

 Unlike bodies of water that are influenced by tides or other natural fluctuations, Shasta Lake does not support habitats that can adapt to large changes in environmental conditions. Therefore, the exposed shoreline below the full pool level is essentially devoid of vegetation (Figure 19-6). As illustrated in this figure, the relatively gradual slope to the lake bottom results in a greater area of exposed shoreline with lower water levels, resulting in



Figure 19-6. The "Bathtub Ring" Effect

the "bathtub ring" effect common to California reservoirs (Reclamation 2006). As the elevation of the water surface decreases, the viewing quality changes spatially and temporally. Erosional processes, primarily wave erosion, exacerbate this situation. The seasonal fluctuations in water levels and, consequently, the amount of exposed shoreline greatly affect the visual quality of Shasta Lake.

External Views A number of factors may affect the viewsheds described in the preceding section. Exposed surfaces associated with barren shoreline and activities such as grading may be obvious, but factors such as vegetation, lighting, and glare could also substantially affect these viewsheds both spatially and temporally.

Topography and property boundaries influence the public's external views of the primary study area. Views of the lake from private property



Figure 19-7. View of Shasta Lake from a Residence Located off Northwoods Road, Lakehead, California

are infrequent. Most private parcels are located some distance from the lake, and views of the lake are buffered by vegetation and the topography of NFS lands surrounding the lake. Nevertheless, some of the private parcels in the vicinity of Shasta Lake have views of the lake, although the quality of these views varies. Figure 19-7 shows a view of Shasta Lake from a nearby residence (the McCloud Arm is seen in the middle ground and the Pit Arm in the background).

Light and Glare A majority of the lands surrounding Shasta Lake are densely vegetated and undeveloped. As a result, there are relatively few sources of artificial light and glare in the Shasta Lake and vicinity portion of the primary study area. The reaches of the upper Sacramento River that pass through developed communities, such as Redding and Anderson, do have substantial sources of light and glare, and, to a lesser degree, light and glare are observable between the city of Shasta Lake and Lakehead. Vehicle traffic and roadway lighting along the I-5 corridor, scattered residential and commercial development, and reflective surfaces such as boats and marinas are among the primary sources of light and glare. The Shasta Dam compound has a variety of sources of light and glare. The backdrop of Shasta Dam at night is nonetheless an attraction for visitors and residents. Exposed bare mineral soils, which characterize the "bathtub ring" around the perimeter of the lake during periods of drawdown, are a potential source of glare (Figure 19-6). The chroma of these soils is generally light, and the contrast of the bathtub ring with upslope vegetation and downslope water is readily apparent from various distances.

Vegetation Vegetation is an important variable in characterizing visual conditions. The type, location, diversity, and distribution of vegetation influence form and texture, depending on the vantage point of the viewer. The diverse assemblage of vegetation and barren areas in and adjacent to the primary study area varies seasonally. As mentioned previously, forestlands surround Shasta Lake. The transition from chaparral/montane hardwood—dominated habitat at the southern end of the lake to a conifer-dominated forest to the north and east is apparent to travelers on I-5 as well as to people viewing the area from the lake level or a vista point.

Typically, vegetation extends from the ordinary high-water line of Shasta Lake into the adjacent uplands. Changes in vegetation type are apparent as the viewer's eye is drawn upward from lake level to surrounding ridgelines. Because there is no vegetation below the ordinary high-water line, a distinct demarcation is visible between upland vegetation and water levels as the reservoir fluctuates.

Viewer Groups The perceptions of viewers are influenced by their location, specific activities in which they are engaged, personal degree of awareness, and individual values and goals. Activities associated with the project could affect three distinct viewer groups: motorists, residents, and recreationists.

Motorists For the purposes of this report, motorists are people who view the primary study area from a moving vehicle. Motorists can be drivers or passengers. This group typically consists of commuters, local residents, business travelers, and tourists.

Tourists are often acutely aware of viewsheds. Business travelers, commuters, and local residents who travel the same routes frequently may become inured to a view but, at the same time, are more likely to be aware of visual changes than occasional passersby. In general, views of Shasta Lake from motorists on I-5 are of short duration but relatively frequent from Bridge Bay north to Lakehead. The longest duration and most expansive panoramic view of Shasta Lake from I-5 occurs as the roadway approaches and crosses Shasta Lake over the Pit River Bridge from both the north and the south. Traveling this route at a speed of 55 miles per hour, the viewer would be able to observe the lake and its vicinity for approximately 1 minute. Other I-5 views may vary from 4 to 16 seconds, depending on the direction and speed of travel.

Less traveled roads in the vicinity of Shasta Lake, such as SR 151, Salt Creek Road, and Gilman Road, also offer views of the lake. Most views of the lake from these roads are limited to vistas (views framed by trees or structures) and are therefore of short duration. However, one of the best vantage points from which to view the Three Shastas is at an overlook along SR 151, a State scenic highway (Figure 19-1). Motorists traveling north who do not stop at the overlook also see a spectacular view of the Three Shastas while traveling, although the view is of short duration.

Residents For the purposes of this report, residents are people whose homes, businesses, and/or property are near, and have a view of, a portion of the primary study area. The sensitivity of residents to aesthetic values and changes to a viewshed is highly individual. In addition, the sensitivity of residents to changes in a viewshed is influenced, in part, by the location and the length of time that the view from a particular location appears altered from its previous condition (e.g., temporary changes during construction or long-term modifications to the landscape).

Views of Shasta Lake from private properties are limited by land ownership patterns; most of the lands surrounding Shasta Lake are managed by Federal agencies. Views from these lands are influenced by access, vegetation, and topography. Homes on nearby ridges, such as those on the ridgeline between Packers Bay and Turntable Bay, typically have partial views of Shasta Lake. Similarly, homes clustered along the Sacramento Arm near Lakehead have views upstream and downstream from the arm, although the views are limited by the steep topography.

Recreationists For the purposes of this report, recreationists are people who use the lands in the Whiskeytown-Shasta-Trinity NRA for recreation. Like residents, recreational users of Shasta Lake are highly sensitive to the visual character of Shasta Lake and the surrounding environment.

Recreationists are people who participate in land-based activities, such as hiking along the shoreline, camping in the NRA's many campgrounds, or water-based activities, such as boating, fishing, or rafting. In addition to four recreational

residence tracts permitted by the STNF (e.g., Silverthorn Tract), several commercial facilities offer overnight accommodations adjacent to the shoreline. Recreational users often have a unique perspective on the surrounding environment.

Visual Assessment Units and Key Observation Points Visual assessment units (VAU) are areas of distinct visual character in a viewshed that provide a framework for comparing the visual effects of alternatives. Key observation points (KOP) are commonly traveled routes or other likely observation points in a VAU from which a representative group (motorists, residents, and recreationists) can observe a viewshed.

VAUs are defined by areas where the features or activities associated with the project would occur in the line of sight of a KOP and represent foreground or middle ground views (i.e., within 4 miles of a KOP in the VAU). KOPs were established at locations from which portions of the primary study area can clearly be seen by members of the various viewer groups. Table 19-2 lists the KOPs established in the primary study area. Locations of VAUs and KOPs are shown in Figures 19-8a through 19-8h. Photographs taken from each KOP are provided after each figure.

Table 19-2. Key Observation Points

VAU	Figure	KOP#	Photo #	Description of Key Observation Point	
		1	1a	View of the Three Shastas (Shasta Dam, Shasta Lake, and Mount Shasta) from the SR 151 overlook above the Shasta Dam Visitor Center and downstream from Shasta Dam	
		1	1b	View of the upper Sacramento River below Shasta Dam from the SR 151 overlook above the Shasta Dam Visitor Center and downstream from Shasta Dam	
		2	2a	View of the Main Body of Shasta Lake from Shasta Dam	
		2	2b View of the Shasta Dam spillway and the upper Sac River from Shasta Dam		
		2	2c	View of the Centimudi Boat Ramp from Shasta Dam	
Shasta Dam	Shasta Dam 19-8a	19-8a 3		3a	View from the Chappie-Shasta OHV Area staging area looking northeast
		3	3b	View from the Chappie-Shasta OHV Area staging area looking south	
		4	4a	View from the Chappie-Shasta OHV Area campground looking northeast	
		4	4b	View from the Chappie-Shasta OHV Area campground looking southwest	
		5	5a	View from the Coram Ranch River House looking northeast	
		5	5b	View from the Coram Ranch River House looking southeast	

VAU	Figure	KOP#	Photo #	Description of Key Observation Point	
		6	6a	View from the Coram Ranch Dogwood House looking northeast	
		6	6b	View from the Coram Ranch Dogwood House looking southeast	
		7	7a	View from the Coram Ranch Residence looking northeast	
		7	7b	View from the Coram Ranch residence looking east	
		7	7c	View from the Coram Ranch residence looking southeast	
		8	8	View from the Coram Ranch Guest Quarters looking northeast	
Shasta Dam (contd.)	19-8a (contd.)	9	9a	View from the road above the Chappie-Shasta OHV Area staging area looking northeast	
		9	9b	View from the road above the Chappie-Shasta OHV Area staging area looking southwest	
		10	10a	View of Shasta Dam from pullout east of the dam on Lake Boulevard looking northwest	
		10	10b	View of Shasta Lake from pullout east of the dam on Lake Boulevard looking northeast	
		11	11	View of Shasta Dam from the Main Body of Shasta Lake	
Dry Creek Trail	19-8b 1		1	View of Dry Creek Trail northwest of Shasta Dam looking westrom the Main Body of Shasta Lake	
Little	19-8b	1	1a	View of the mouth of Little Backbone inlet looking northeast from the Main Body of Shasta Lake	
Backbone Inlet	19-80	1	1b	View of the mouth of Little Backbone inlet looking northwest from the Main Body of Shasta Lake	
		1	1	View of the Main Body of Shasta Lake from the upper parking area west of the Digger Bay Boat Ramp	
		2	2	View of the upper parking area at Digger Bay Marina looking east	
Digger Bay	19-8b	3	3a	View of Digger Bay Marina looking northwest from boat ramp	
		3	3b	View of Digger Bay Marina shoreline looking west from boat ramp	
		3	3с	View of Digger Bay Boat Ramp and parking area looking south from marina	
Packers Bay	19-8c	1	1	View of Packers Bay from the Packers Bay Boat Ramp	

VAU	Figure	KOP#	Photo #	Description of Key Observation Point
		1	1a	View of Bridge Bay looking north from the Bridge Bay store
		1	1b	View of Bridge Bay looking northwest from the parking lot of the Bridge Bay store
		2	2	View of the I-5/Pit River Bridge from Bridge Bay
Pridge Pov	19-8c	3	3a	View of the Union Pacific Railroad train tunnel looking south from the Bridge Bay Resort maintenance area
Bridge Bay	19-60	3	3b	View of the Union Pacific Railroad train tunnel looking north from the Bridge Bay Resort maintenance area
		3	3c	View of Bridge Bay Marina 4 from the Bridge Bay Resort maintenance parking area
		4	4a	View of the south shoreline from Bridge Bay Marina 4 stairway
		4	4b	View looking northwest from Bridge Bay Marina 4 stairway
		1	1	View of the Sacramento Arm from Riverview Drive southbound near the community of Pollock
		2	2	View of the Sacramento Arm from Riverview Drive southbound near the community of Pollock
		3	3	View of the Sacramento Arm looking east from the Doney Creek Bridge on Lakeshore Drive near the community of Lakehead
		4	4a	View of the Sacramento Arm from Lakeshore East Campground near the community of Lakeshore
Sacramento	19-8d	4	4b	View of the Sacramento Arm looking southeast from Lakeshore East Campground
Arm		5	5a	View of the inlet looking northwest from Charlie Creek Bridge on Lakeshore Drive
		5	5b	View of the Sacramento Arm looking south from Charlie Creek Bridge on Lakeshore Drive
		6	6a	View of the Sacramento Arm from the Beehive Campground access road near Lakeshore
		6	6b	View of Sugarloaf Creek inlet/Sacramento Arm from Beehive Campground near Lakeshore
		6	6c	View of Sugarloaf Creek inlet/Sacramento Arm from Beehive Campground near Lakeshore

VAU	Figure	KOP#	Photo #	Description of Key Observation Point
		7	7a	View of Sugarloaf Cove near Lakeshore from north shore looking south
		7	7b	View of Sugarloaf Cove from north shore looking northwest
		8		View of Sugarloaf Marina from the end of Daisy Lane
		9	9a	View looking south from Sugarloaf Resort Marina access
		9	9b	View toward the Salt Creek inlet from Sugarloaf Resort Marina access
		9	9c	View of Sugarloaf Marina from Sugarloaf Resort
		10	10a	View looking south toward Sugarloaf Marina from the Sugarloaf Boat Ramp
		10	10b	View looking southeast at the Sacramento Arm from the Sugarloaf Boat Ramp
		10	10c	View looking northeast at the Sacramento Arm from the Sugarloaf Boat Ramp entrance
Sacramento	19-8d	11	11a	View looking east from the Tsasdi Resort Marina
Arm (contd.) (contd.)	(conta.)	11 1		View looking south from the Tsasdi Resort Marina
		12	12a	View looking east toward I-5 from the Lakeshore Resort Campground
		12	12b	View looking southeast from the Lakeshore Resort Campground
		13	13	View of the Salt Creek Inlet looking south from the Oak Grove Day Use Area
		14	14a	View looking northeast from Lower Salt Creek Road at the Salt Creek Resort
		14	14b	View looking northwest from Lower Salt Creek Road at the Salt Creek Resort
		15	15a	View of the Salt Creek Inlet from Lower Salt Creek Road
		15	15b	View of the Salt Creek Inlet from Lower Salt Creek Road
		16	16	View of Antlers Bridge/I-5 looking southwest from Antlers Public Boat Ramp

VAU	Figure	KOP#	Photo #	Description of Key Observation Point
		17	17a	View of Antlers Public Boat Ramp/Picnic Area parking lot from picnic area looking north
Sacramento	19-8d	17	17b	View of Sacramento Arm from Antlers Public Boat Ramp/Picnic Area from picnic area looking south
Arm (contd.)	(contd.)	18	18a	View from typical campsite at Antlers Resort looking north
		18	18b	View from typical campsite at Antlers Resort looking east
		18	18c	View from typical campsite at Antlers Resort looking southwest
		1	1	View of the McCloud Arm, Turntable Bay, and vicinity from a residence located off of Northwoods Road, west of I-5
		2	2	View of Turntable Bay from the McCloud Arm of Shasta Lake
		3	3	View of the Bailey Cove Boat Ramp from the Bailey Cove parking lot
		4	4	View of Holiday Harbor from the Bailey Cove Day Use Area
		5	5	View of Holiday Harbor from the Holiday Harbor Campground entrance
		6	6	View looking south toward the McCloud Arm from the Shasta Caverns parking lot
		7	7	View from the Lakeview Resort caretaker residence
McCloud Arm	19-8e	8	8a	View of the McCloud Arm looking south from the Lakeview Resort boat ramp
		8	8b	View of the McCloud Arm looking northeast from the Lakeview Resort boat ramp
		8	8c	View of the Lakeview Resort Marina from the Lakeview Resort boat ramp
		9	9	View of Lakeview Resort from the McCloud Arm of Shasta Lake
		10	10	View of Shasta Caverns dock on east side of lake from the McCloud Arm of Shasta Lake
		11	11a	View of the McCloud Arm downstream from the Hirz Bay Boat Ramp
		11	11b	View of the McCloud Arm upstream from the Hirz Bay Boat Ramp

VAU	Figure	KOP#	Photo #	Description of Key Observation Point
		12	12	View of Hirz Bay from the McCloud Arm of Shasta Lake
		13	13a	View of Campbell Creek inlet looking southeast from the McCloud Arm of Shasta Lake
		13	13b	View of Campbell Creek inlet looking east from the McCloud Arm of Shasta Lake
		14	14a	View of the McCloud Arm downstream, from the Dekkas Rock Campground
		14	14b	View of the McCloud Arm upstream, from the Dekkas Rock Campground
McCloud Arm	19-8e	15	15a	View of the McCloud River upstream, from the McCloud River Bridge
(contd.)	(contd.)	15	15b	View of the McCloud River downstream, from the McCloud River Bridge
		16	16 View of the McCloud River Bridge, from the eastern a	
		17	17	View of the McCloud Arm from Space 10, McCloud Bridge Campground
		18		View of the McCloud Arm from open area west of Space 1, McCloud Bridge Campground
		18	18b	View of the McCloud Arm from open area west of Space 1, McCloud Bridge Campground
		18	18c	View looking west from the open area west of Space 1, McCloud Bridge Campground
		1	1a	View of the Pit Arm from the Jones Valley parking area, looking northwest
		1	1b	View of the Pit Arm from the Jones Valley parking area, looking northeast
Pit Arm	19-8f	2	2	View of the Pit Arm from the Jones Valley parking area (west end), looking west
		3	3	View of the Pit Arm from the entrance to the Jones Valley Campground
		4	4	View of the Pit Arm looking north from the Jones Valley Resort Boat Ramp
		5	5	View of the Pit Arm from Juniper Drive, Silverthorn Resort

VAU	Figure	KOP#	Photo #	Description of Key Observation Point
		6	6a	View of the Silverthorn Marina from the top of the boat ramp looking east
		6	6b	View of the Silverthorn Marina from the top of the boat ramp looking northeast
Pit Arm (contd.)	19-8f (contd.)	6	6c	View of the Silverthorn Marina from the top of the boat ramp looking north
		7	7	View of the Silverthorn Marina looking south from the Pit Arm of Shasta Lake
		8	8	View of the west side of Ski Island looking east from Shasta Lake
Coulous A was	Squaw Arm 19-8g	1	1	View of Bully Hill looking north from the Squaw Arm of Shasta Lake
Squaw Ami		2	2	View of Monday Flat looking north from the Squaw Arm of Shasta Lake
		1	1a	View of the Pit Arm (right) and the McCloud Arm (left) from the Pit River Bridge, as seen from I-5 northbound
		1	1b	View of Bridge Bay Resort from the Pit River Bridge, as seen from I-5 southbound
		2	2	View of the Pit River Bridge looking west from the Pit Arm of Shasta Lake
I-5 Corridor	19-8h	3	3a	View of the Sacramento Arm looking toward the Antlers Campground from the Antlers Bridge, as seen from I-5 northbound
		3	3b	View of the Antlers Public Boat Ramp from the Antlers Bridge, as seen from I-5 northbound
		4	4	View of the Sacramento Arm west of the Antlers Bridge, as seen from I-5 southbound
		5		View of the McCloud Arm and vicinity at Turntable Bay, as seen from I-5 northbound

Key:

I-5 = Interstate 5

KOP = key observation point

OHV = off-highway vehicle

SR = State Route

VAU = visual assessment unit

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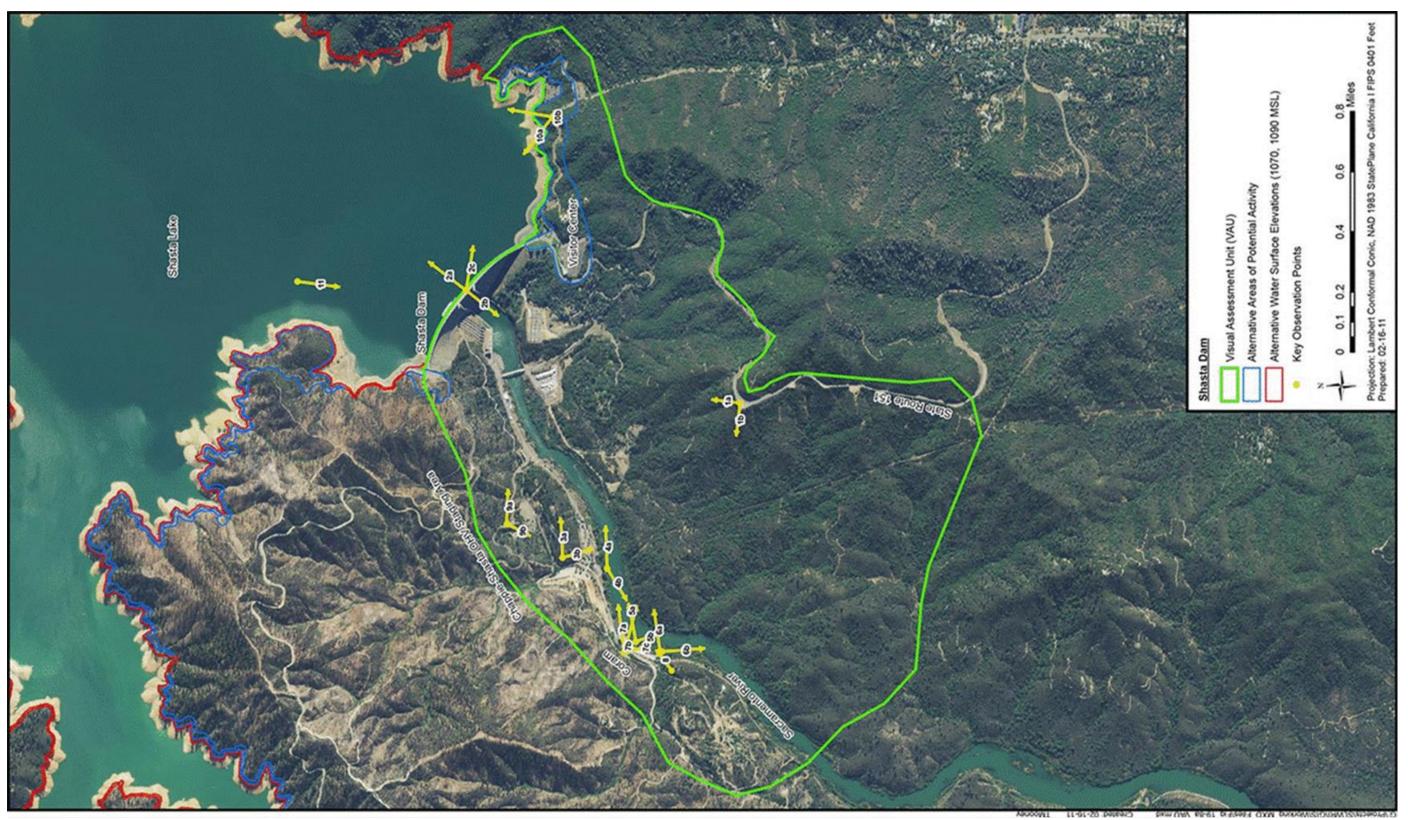


Figure 19-8a. Visual Assessment Unit and Key Observation Points



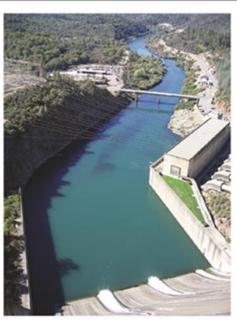
Shasta Dam VAU, KOP 1, Photo 1a
View of the Three Shastas (Shasta Dam, Shasta Lake, and Mount Shasta) from the SR 151 overlook above the Shasta Dam Visitor Center and downstream of Shasta Dam.



Shasta Dam VAU, KOP 1, Photo 1b
View of the upper Sacramento River below Shasta Dam
from the SR 151 overlook above the Shasta Dam Visitor
Center and downstream of Shasta Dam.



Shasta Dam VAU, KOP 2, Photo 2a
View of the main body of Shasta Lake from Shasta Dam.



Shasta Dam VAU, KOP 2, Photo 2b
View of the Shasta Dam spillway and the upper Sacramento River from Shasta Dam.



Shasta Dam VAU, KOP 2, Photo 2c View of the Centimudi Boat Launch from Shasta Dam.



Shasta Dam VAU, KOP 3, Photo 3a View from the Chappie - Shasta Off-Highway Vehicle (OHV) Area staging area looking northeast.



Shasta Dam VAU, KOP 3, Photo 3b
View from the Chappie - Shasta OHV Area staging area
looking south.



Shasta Dam VAU, KOP 4, Photo 4a
View from the Chappie - Shasta OHV Area campground
looking northeast.



Shasta Dam VAU, KOP 4, Photo 4b View from the Chappie - Shasta OHV Area campground looking southwest.



Shasta Dam VAU, KOP 5, Photo 5a View from the Coram Ranch River House looking northeast.



Shasta Dam VAU, KOP 5, Photo 5b View from the Coram Ranch River House looking southeast.



Shasta Dam VAU, KOP 6, Photo 6a View from the Coram Ranch Dogwood House looking northeast.



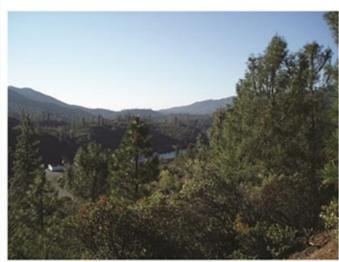
Shasta Dam VAU, KOP 6, Photo 6b View from the Coram Ranch Dogwood House looking southeast.



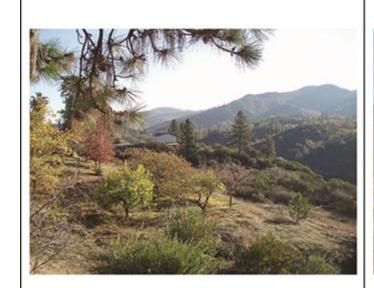
Shasta Dam VAU, KOP 7, Photo 7a View from the Coram Ranch Residence looking northeast. View from the Coram Ranch Residence looking east.



Shasta Dam VAU, KOP 7, Photo 7b



Shasta Dam VAU, KOP 7, Photo 7c View from the Coram Ranch Residence looking southeast.



Shasta Dam VAU, KOP 8, Photo 8 View from the Coram Ranch Guest Quarters looking northeast.



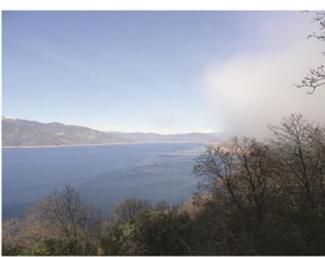
Shasta Dam VAU, KOP 9, Photo 9a View from the road above the Chappie - Shasta OHV Area staging area looking northeast.



Shasta Dam VAU, KOP 9, Photo 9b View from the road above the Chappie - Shasta OHV Area staging area looking southwest.



Shasta Dam VAU, KOP 10, Photo 10a View of Shasta Dam from pullout east of the dam on Lake Boulevard looking northwest.



Shasta Dam VAU, KOP 10, Photo 10b View of Shasta Lake from pullout east of the dam on Lake View of Shasta Dam from the main body of Shasta Lake. Boulevard looking northeast.



Shasta Dam VAU, KOP 11, Photo 11



Photographs for Figure 19-8a, Plate 3

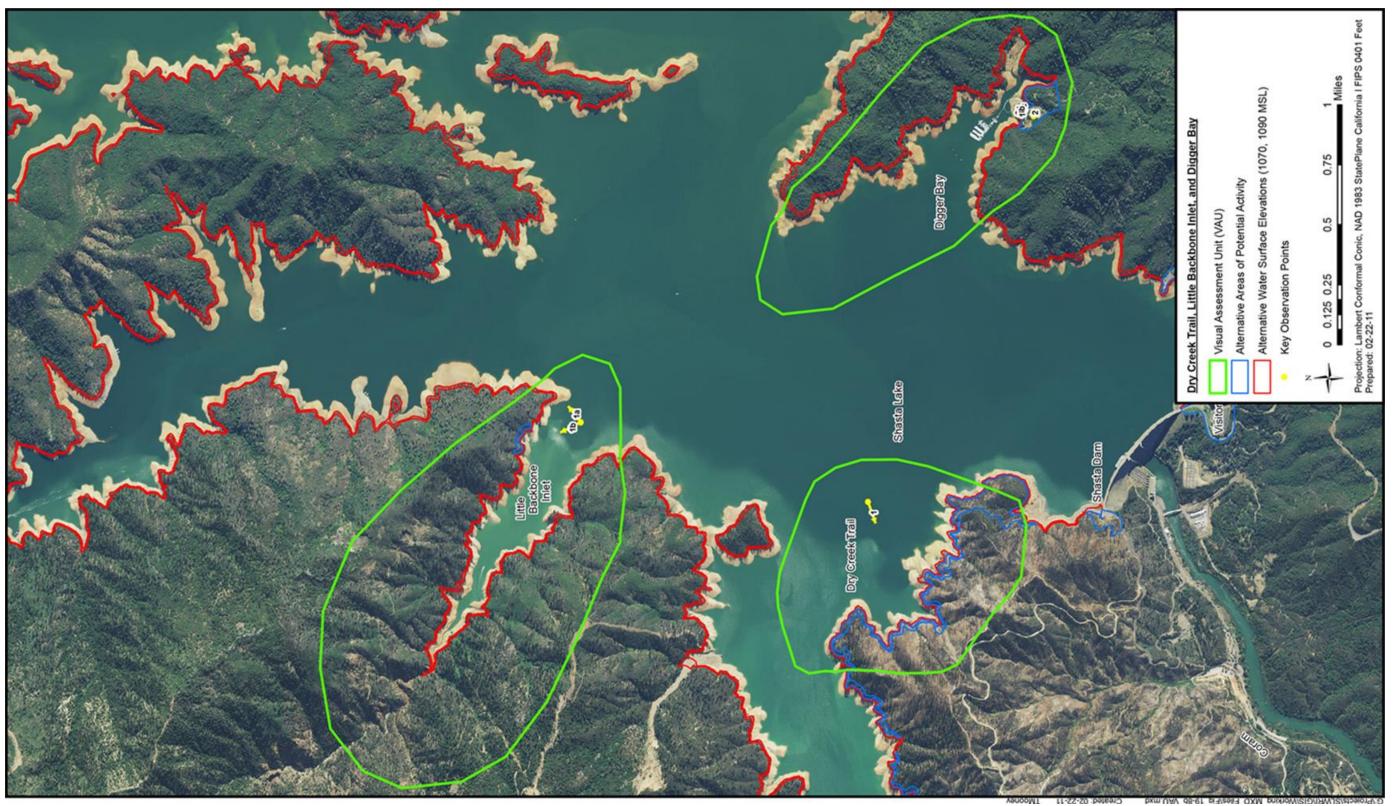


Figure 19-8b. Visual Assessment Unit and Key Observation Points



Dry Creek Trail VAU, KOP1, Photo 1
View of Dry Creek Trail northwest of Shasta Dam looking west from the main body of Shasta Lake.



Little Backbone Inlet VAU, KOP 1, Photo 1a View of the mouth of Little Backbone inlet looking northeast from the main body of Shasta Lake.



Little Backbone Inlet VAU, KOP 1, Photo 1b View of the mouth of Little Backbone inlet looking northwest from the main body of Shasta Lake.



Digger Bay VAU, KOP 1, Photo 1
View of the main body of Shasta Lake from the upper parking area west of the Digger Bay Boat Ramp.



Digger Bay VAU, KOP 2, Photo 2 View of the upper parking area at Digger Bay Marina looking east.



Digger Bay VAU, KOP 3, Photo 3a View of Digger Bay Marina looking northwest from boat ramp.



Digger Bay VAU, KOP 3, Photo 3b View of Digger Bay Marina shoreline looking west from boat ramp.



Digger Bay VAU, KOP 3, Photo 3c View of Digger Bay Boat Ramp and parking area looking south from marina.

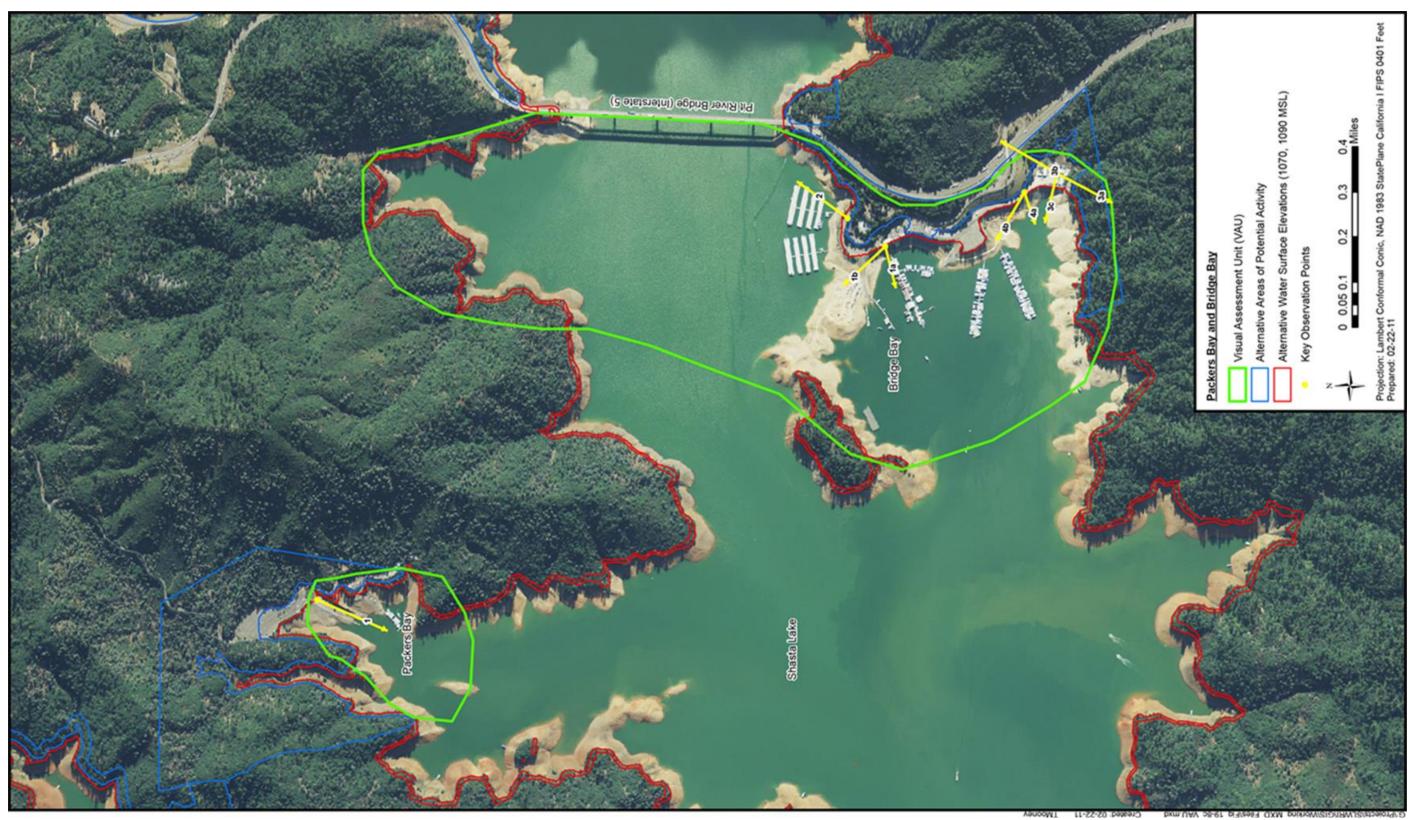


Figure 19-8c. Visual Assessment Unit and Key Observation Points



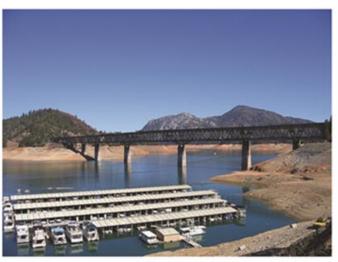
Packers Bay VAU, KOP 1, Photo 1
View of Packers Bay from the Packers Bay Boat Ramp.



Bridge Bay VAU, KOP 1, Photo 1a View of Bridge Bay looking north from the Bridge Bay store.



Bridge Bay VAU, KOP 1, Photo 1b View of Bridge Bay looking northwest from the parking lot of the Bridge Bay store.



Bridge Bay VAU, KOP 2, Photo 2 View of the I-5/Pit River Bridge from Bridge Bay.



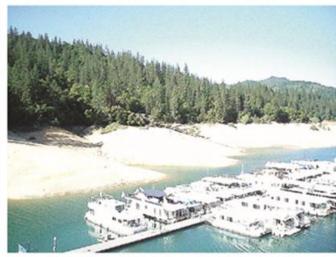
Bridge Bay VAU, KOP 3, Photo 3a View of the Union Pacific Railroad train tunnel looking south from the Bridge Bay Resort maintenance area.



Bridge Bay VAU, KOP 3, Photo 3b View of the Union Pacific Railroad train tunnel looking north from the Bridge Bay Resort maintenance area.



Bridge Bay VAU, KOP 3, Photo 3c View of Bridge Bay Marina 4 from the Bridge Bay Resort maintenance parking area.



Bridge Bay VAU, KOP 4, Photo 4a
View of the south shoreline from Bridge Bay Marina 4
stairway.

Bridge Bay VAU, KOP 4, Photo 4b View looking northwest from Bridge Bay Marina 4		
View looking northwest from Bridge Bay Marina 4 stairway.		
Distance to facilities 40.0s Distance		

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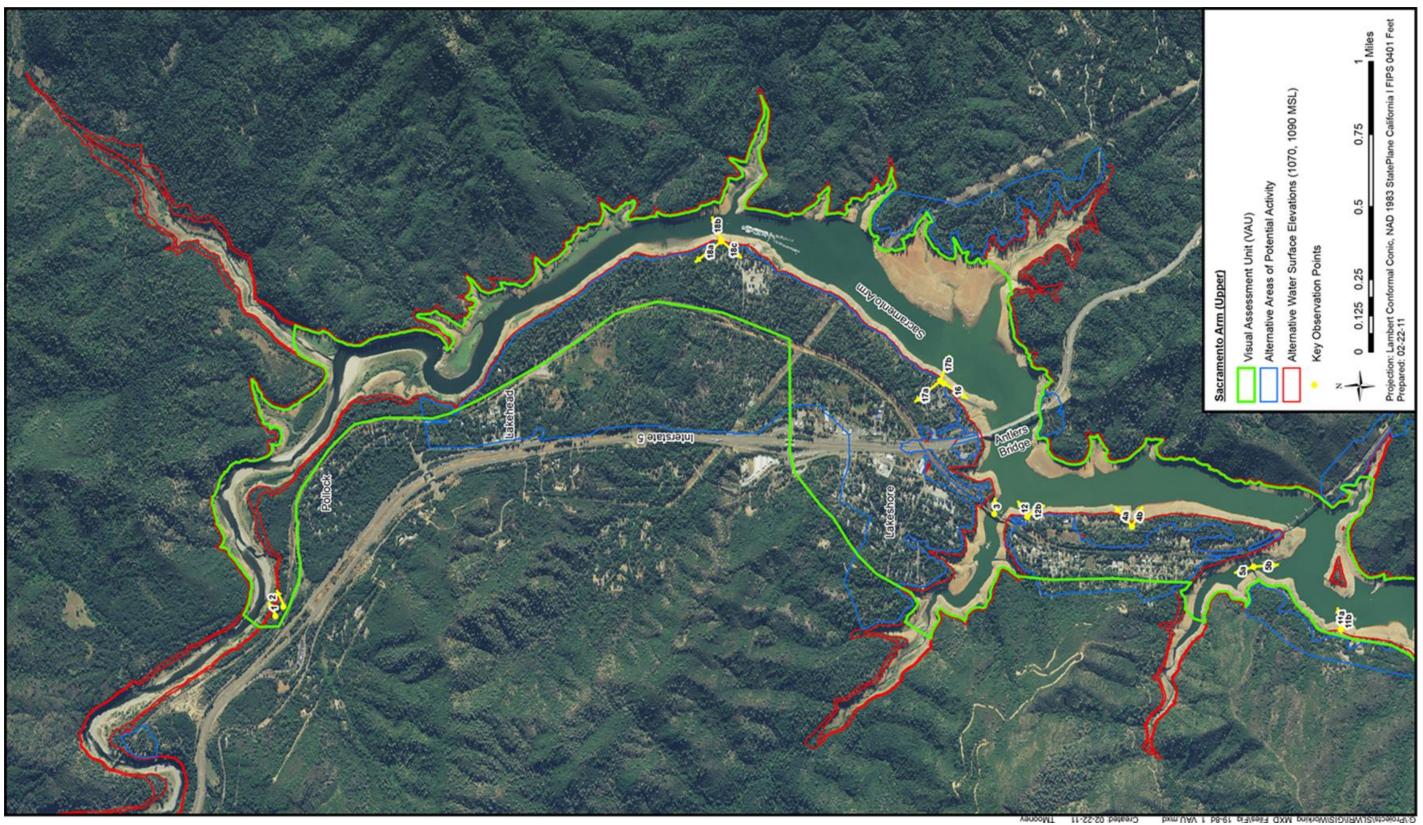


Figure 19-8d. Part 1 – Visual Assessment Unit and Key Observation Points

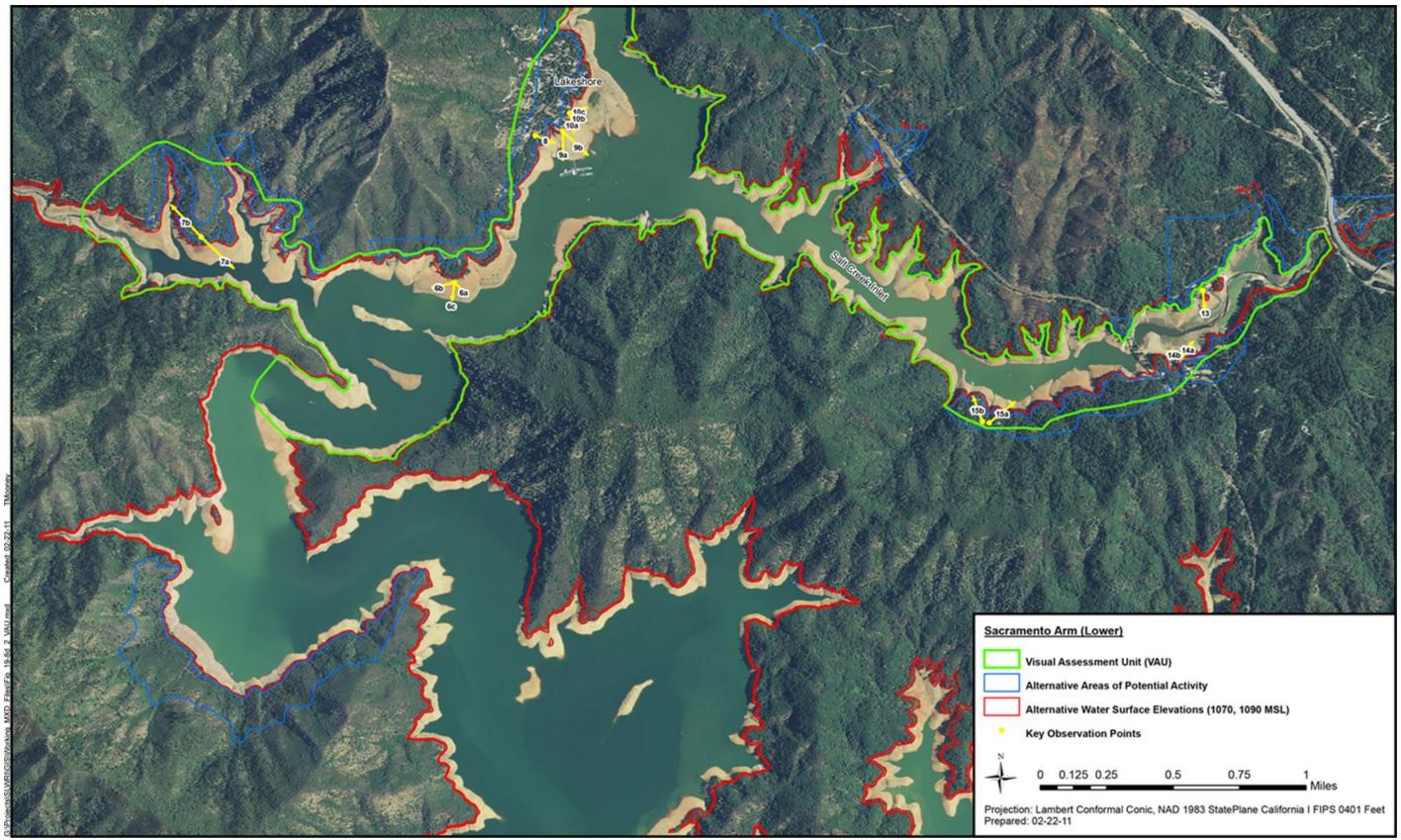


Figure 19-8d. Part 2 – Visual Assessment Unit and Key Observation Points



Sacramento Arm VAU, KOP 1, Photo 1
View of the Sacramento Arm from Riverview Drive southbound near the community of Pollock.



Sacramento Arm VAU, KOP 2, Photo 2 View of the Sacramento Arm from Riverview Drive southbound near the community of Pollock.



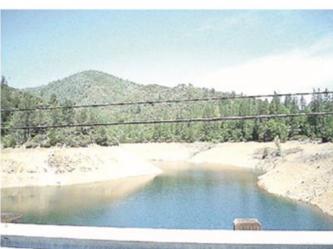
Sacramento Arm VAU, KOP 3, Photo 3
View of the Sacramento Arm looking east from the Donley
Creek Bridge on Lakeshore Drive near the community of
Lakehead.



Sacramento Arm VAU, KOP 4, Photo 4a View of the Sacramento Arm from Lakeshore East Campground near the community of Lakeshore.



Sacramento Arm VAU, KOP 4, Photo 4b View of the Sacramento Arm looking southeast from the Lakeshore East Campground.



Sacramento Arm VAU, KOP 5, Photo 5a View of the inlet looking northwest from Charley Creek Bridge on Lakeshore Drive.



Sacramento Arm VAU, KOP 5, Photo 5b
View of the Sacramento Arm looking south from Charley
Creek Bridge on Lakeshore Drive.



Sacramento Arm VAU, KOP 6, Photo 6a View of the Sacramento Arm from the Beehive Campground access road near Lakeshore.



Sacramento Arm VAU, KOP 6, Photo 6b View of Sugarloaf Creek inlet/Sacramento Arm from Beehive Campground near Lakeshore.



Sacramento Arm VAU, KOP 6, Photo 6c View of Sugarloaf Creek/Sacramento Arm from Beehive Campground near Lakeshore.



Sacramento Arm VAU, KOP 7, Photo 7a
View of Sugarloaf Cove near Lakeshore from north shore looking south.



Sacramento Arm VAU, KOP 7, Photo 7b View of Sugarloaf Cove from north shore looking northwest.



Sacramento Arm VAU, KOP 8, Photo 8 View of Sugarloaf Marina from the end of Daisy Lane.



Sacramento Arm VAU, KOP 9, Photo 9a View looking south from Sugarloaf Resort Marina access.



Sacramento Arm VAU, KOP 9, Photo 9b View toward the Salt Creek Inlet from Sugarloaf Resort Marina access.



Sacramento Arm VAU, KOP 9, Photo 9c View of Sugarloaf Marina from Sugarloaf Resort.



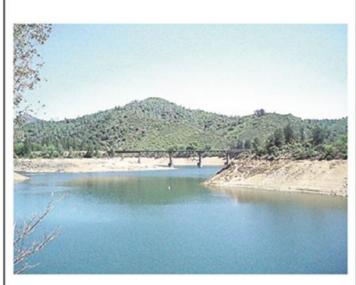
Sacramento Arm VAU, KOP 10, Photo 10a View looking south toward Sugarloaf Marina from the Sugarloaf Boat Ramp.



Sacramento Arm VAU, KOP 10, Photo 10b View looking southeast at the Sacramento Arm from the Sugarloaf Boat Ramp.



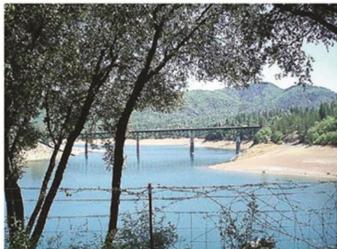
Sacramento Arm VAU, KOP 10, Photo 10c View looking northeast at the Sacramento Arm from the Sugarloaf Boat Ramp entrance.



Sacramento Arm VAU, KOP 11, Photo 11a View looking east from the Tsasdi Resort Marina.



Sacramento Arm VAU, KOP 11, Photo 11b View looking south from the Tsasdi Resort Marina.



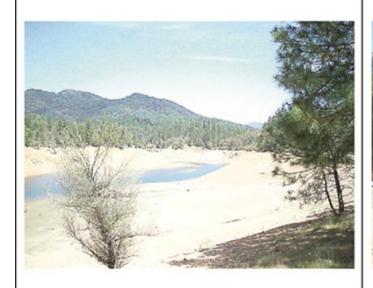
Sacramento Arm VAU, KOP 12, Photo 12a View looking east toward I-5 from the Lakeshore Resort Campground.



Sacramento Arm VAU, KOP 12, Photo 12b View looking southeast from the Lakeshore Resort Campground.



Sacramento Arm VAU, KOP 13, Photo 13
View of the Salt Creek Inlet looking south from the Oak
Grove Day Use Area.



Sacramento Arm VAU, KOP 14, Photo 14a
View looking northeast from Lower Salt Creek Road at the
Salt Creek Resort.



Sacramento Arm VAU, KOP 14, Photo 14b View looking northwest from Lower Salt Creek Road at the Salt Creek Resort.



Sacramento Arm VAU, KOP 15, Photo 15a View of the Salt Creek Inlet from Lower Salt Creek Road.



Sacramento Arm VAU, KOP 15, Photo 15b View of the Salt Creek Inlet from Lower Salt Creek Road.



Sacramento Arm VAU, KOP 16, Photo 16 View of Antlers Bridge/I-5 looking southwest from Antlers Public Boat Ramp.



Sacramento Arm VAU, KOP 17, Photo 17a
View of Antlers Public Boat Ramp/Picnic Area parking lot
from picnic area looking north.



Sacramento Arm VAU, KOP 17, Photo 17b View of Sacramento Arm from Antlers Public Boat Ramp/Picnic Area from picnic area looking south.



Sacramento Arm VAU, KOP 18, Photo 18a
View from typical campsite at Antlers Resort looking north.

Sacramento Arm VAU, KOP 18, Photo 18b View from typical campsite at Antlers Resort looking east.	Sacramento Arm VAU, KOP 18, Photo 18c View from typical campsite at Antlers Resort looking southwest.	

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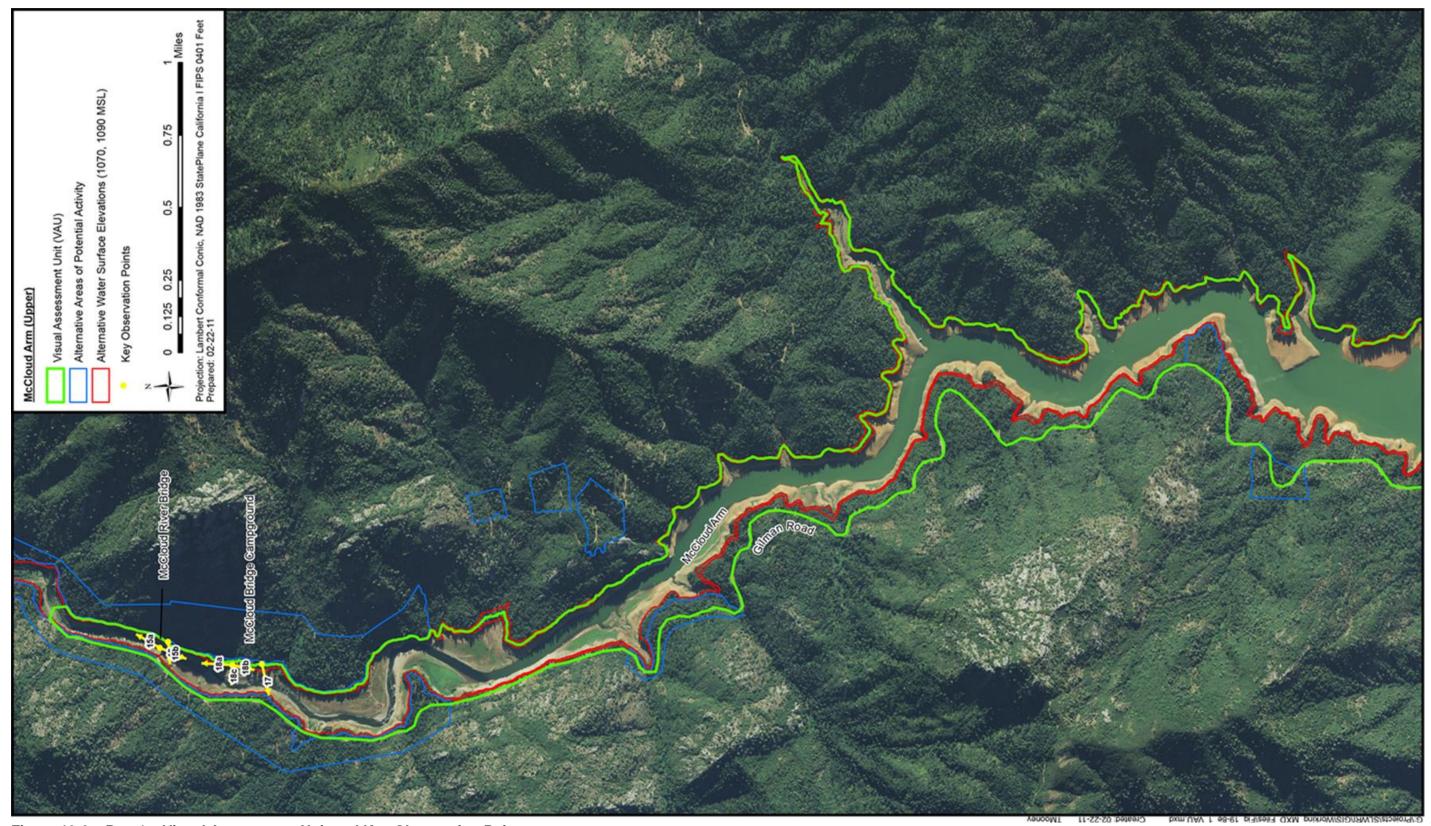


Figure 19-8e. Part 1 – Visual Assessment Unit and Key Observation Points

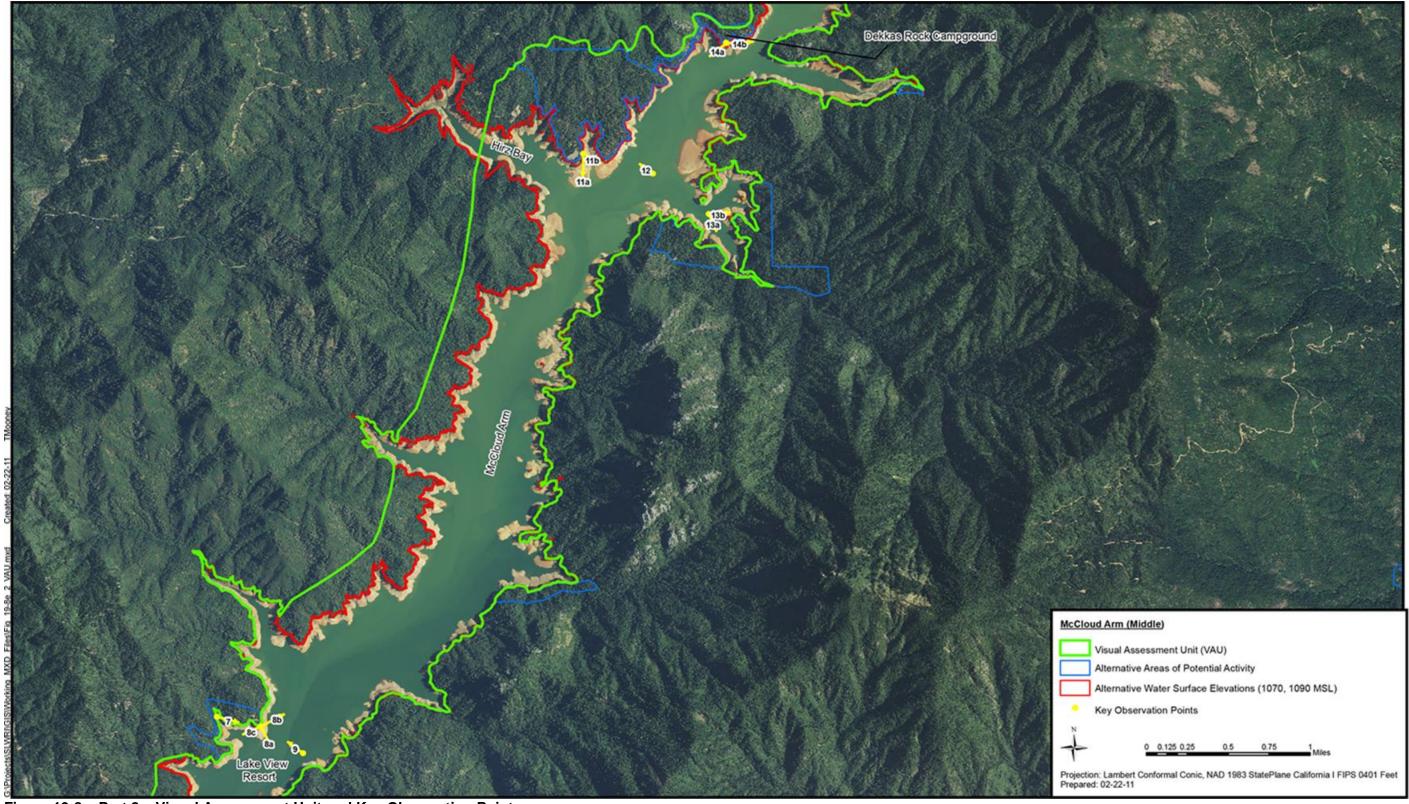


Figure 19-8e. Part 2 – Visual Assessment Unit and Key Observation Points

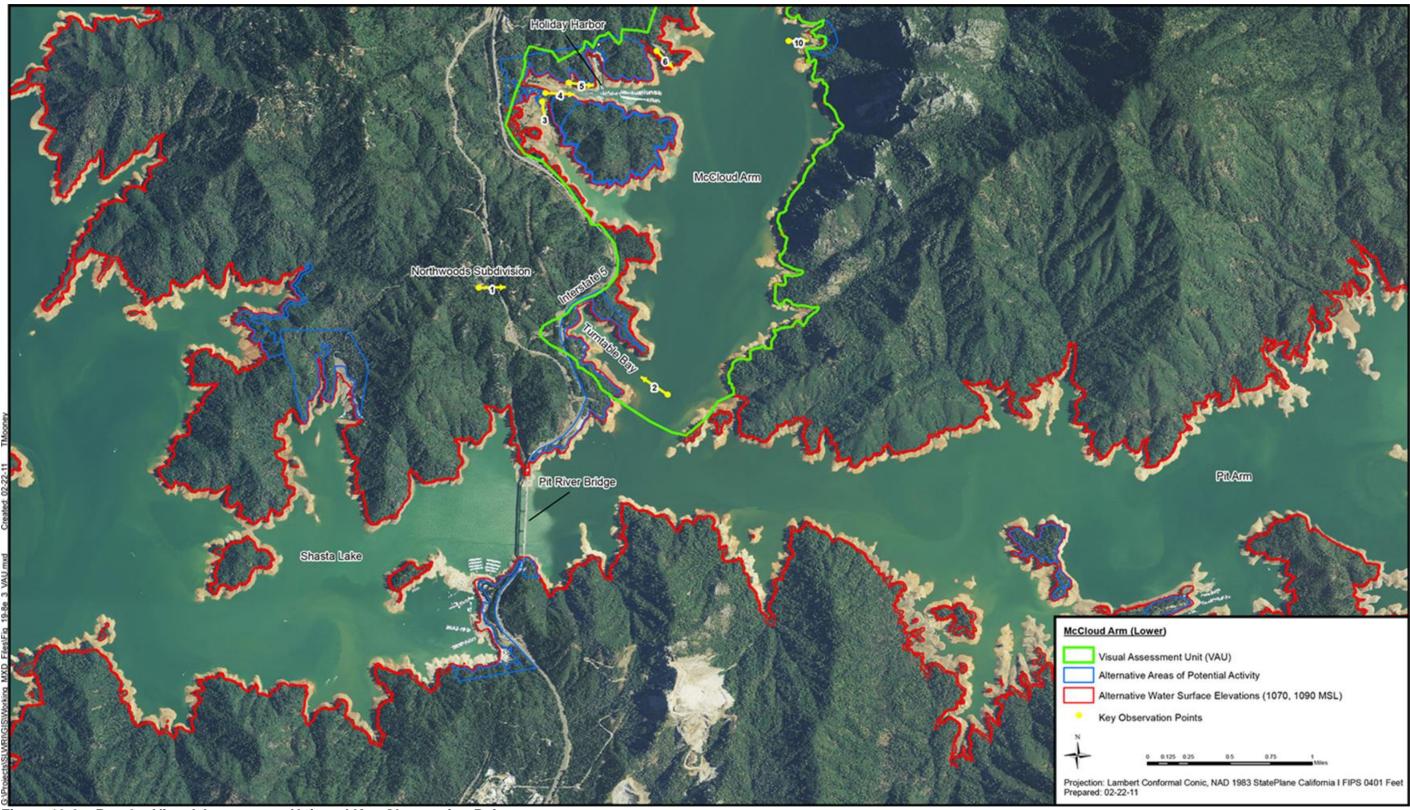


Figure 19-8e. Part 3 – Visual Assessment Unit and Key Observation Points



McCloud Arm VAU, KOP 1, Photo 1
View of the McCloud Arm, Turntable Bay and vicinity from a home located off of Northwoods Road, west of I-5.



McCloud Arm VAU, KOP 2, Photo 2
View of Turntable Bay from the McCloud Arm of Shasta
Lake.



McCloud Arm VAU, KOP 3, Photo 3
View of the Bailey Cove Boat Ramp from the Bailey Cove parking lot.



McCloud Arm VAU, KOP 4, Photo 4
View of Holiday Harbor from the Bailey Cove Day Use
Area.



McCloud Arm VAU, KOP 5, Photo 5 View of Holiday Harbor from the Holiday Harbor Campground entrance.



McCloud Arm VAU, KOP 6, Photo 6
View looking south toward the McCloud Arm from the
Shasta Caverns parking lot.



McCloud Arm VAU, KOP 7, Photo 7
View from the Lake View Resort caretaker residence.



McCloud Arm VAU, KOP 8, Photo 8a View of the McCloud Arm looking south from the Lake View Resort Boat Ramp.



McCloud Arm VAU, KOP 8, Photo 8b
View of the McCloud Arm looking northeast from the Lake
View Resort Boat Ramp.



McCloud Arm VAU, KOP 8, Photo 8c View of the Lake View Resort Marina from the Lake View Resort Boat Ramp.



McCloud Arm VAU, KOP 9, Photo 9
View of Lake View Resort from the McCloud Arm of Shasta Lake.



McCloud Arm VAU, KOP 10, Photo 10
View of Shasta Caverns dock on east side of lake from the McCloud Arm of Shasta Lake.



McCloud Arm VAU, KOP 11, Photo 11a
View of the McCloud Arm downstream from the Hirz Bay
Boat Ramp.



McCloud Arm VAU, KOP 11, Photo 11b

View of the McCloud River Arm upstream, from the Hirz

Bay Boat Ramp.



McCloud Arm VAU, KOP 12, Photo 12
View of Hirz Bay from the McCloud Arm of Shasta Lake.



McCloud Arm VAU, KOP 13, Photo 13a
View of Campbell Creek inlet looking southeast from the
McCloud Arm of Shasta Lake



McCloud Arm VAU, KOP 13, Photo 13b View of Campbell Creek inlet looking east from the McCloud Arm of Shasta Lake



McCloud Arm VAU, KOP 14, Photo 14a View of the McCloud Arm downstream, from the Dekkas Rock Campground.



McCloud Arm VAU, KOP 14, Photo 14b View of the McCloud Arm upstream, from the Dekkas Rock Campground.



McCloud Arm VAU, KOP 15, Photo 15a View of the McCloud River upstream, from the McCloud River Bridge.



McCloud Arm VAU, KOP 15, Photo 15b View of the McCloud River downstream, from the McCloud River Bridge.



McCloud Arm VAU, KOP 16, Photo 16 View of the McCloud River Bridge, from the eastern approach.



McCloud Arm VAU, KOP 17, Photo 17 View of the McCloud Arm from the McCloud Bridge Campground - Space 10.



McCloud Arm VAU, KOP 18, Photo 18a View of the McCloud Arm from open area west of Space 1, McCloud Bridge Campground.