
Nacimiento Water Project Recreation Report Update 2011



San Luis Obispo County
Flood Control and Water Conservation District

Nacimiento Water Project Recreation Report Update 2011

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1 INTRODUCTION

Nacimiento Reservoir, also known as Lake Nacimiento, is located in northern San Luis Obispo County. The reservoir was created when the Nacimiento Dam was built in 1957 by the Monterey County Flood Control and Water Conservation District (now Monterey County Water Resources Agency). The dam and the reservoir continue to be owned and operated by the Monterey County Water Resources Agency (MCWRA). The reservoir has a capacity of 377,900 acre feet, a surface area of 5,727 acres at spillway crest elevation, and 165 miles of shoreline. Water is collected from a 208,060 acre (325 square mile) watershed.

The San Luis Obispo County Flood Control and Water Conservation District (District) has an entitlement for 17,500 acre feet per year (AFY) of water from the reservoir. Of this amount, the District's recently built Nacimiento Water Project (NWP) will be able to deliver up to 15,750 AFY of raw water from the reservoir to water purveyors in San Luis Obispo County. Currently five agencies have subscribed to the project for a total delivery entitlement of 9,655 AFY. Construction of the project began in 2007 and was completed in 2010.

The District's Domestic Water Supply Permit for the NWP was issued by the California Department of Public Health (CDPH) on October 21, 2010 (permit no. 04-06-10P-006), and deliveries to participants began in January 2011. In order to avoid duplication of effort and expense, many source water monitoring and reporting requirements for Nacimiento water are included in the District's permit rather than in the individual participating agencies' permits. These requirements include providing an initial watershed sanitary survey, providing an update of the Nacimiento Reservoir Recreation Report (written in 2002), and conducting monthly recreation area inspections. This report is the first update to the 2002 Recreation Report.

Extensive recreational use and supporting facilities have developed around the reservoir. The largest of these is Lake Nacimiento Resort. The resort property is owned by the MCWRA, and the facilities are operated for public use by the Monterey County Parks Department (MCPD). Additionally, several private communities surround the lake, which provide recreational opportunities for their residents and visitors (Figure 1); the largest two are Heritage Ranch and Oak Shores. The primary access for all of these facilities is Nacimiento Lake Drive (SLO County Road G-14), which runs from Paso Robles to Nacimiento Reservoir and across the Nacimiento Dam, then northerly to Monterey County (Figure 2).

Several major changes have occurred since the initial Recreation Report was written in 2002, including the following:

- October 2007 - Transfer of public recreation area (Lake Nacimiento Resort) management responsibility from a private party to Monterey County Parks Department
- June 2008 - Installation of new log boom at the dam

- May 2010 - Entire section of San Luis Obispo County code that covers recreational activities at Lake Nacimiento was rewritten and adopted by the San Luis Obispo County Board of Supervisors
- December 2010 - Completion of the Nacimiento Water Project
- Change in population of largest lakeside community (Village of Heritage Ranch) from a majority of seasonal residents to a majority of year-round residents

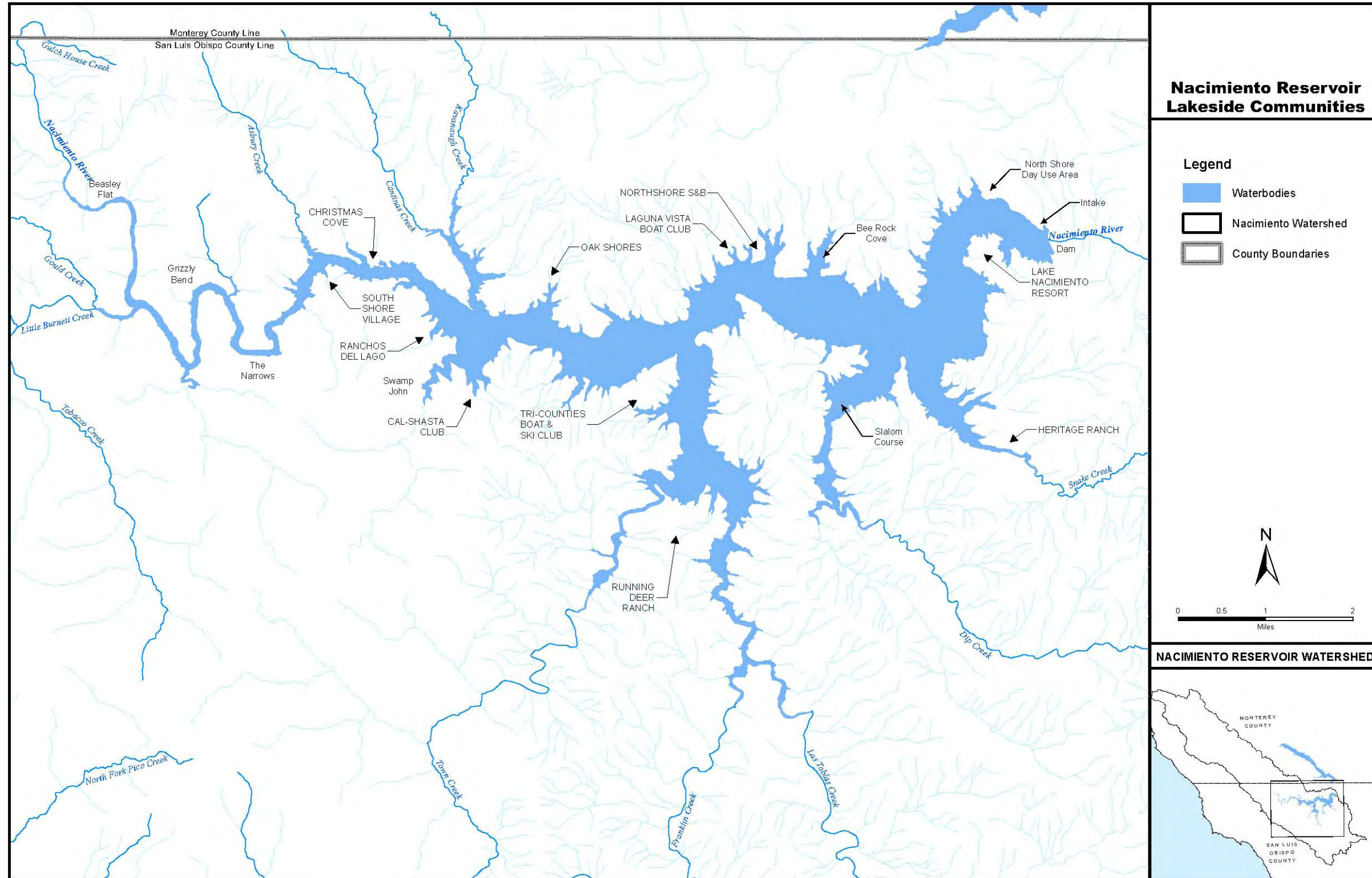


Figure 1: Lakeside Communities

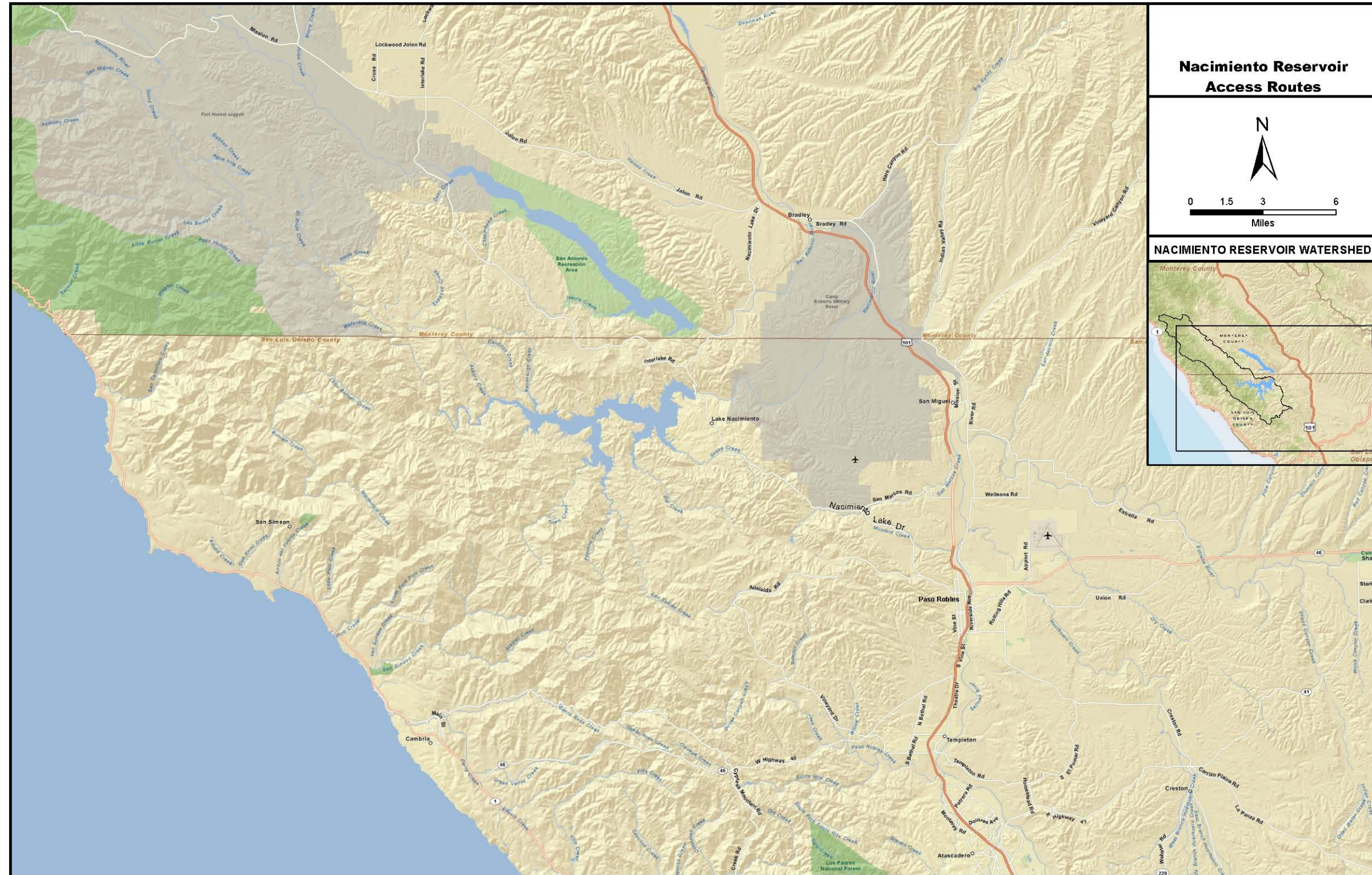


Figure 2: Access Routes

2 BACKGROUND

Water Rights Permit Number 10137 for the use of Nacimiento Reservoir, issued by the State Water Rights Board to the MCFC&WCD in 1964, is for the purpose of irrigation, domestic, municipal, industrial and recreational uses. The Monterey County Water Resources Agency (MCWRA; formerly MCFC&WCD) operates the reservoir for all of these uses.

California Code of Regulations Section 115841 (adopted by the California Legislature in 1997 as Assembly Bill 1460) specifically authorizes continued recreational use of Nacimiento Reservoir, including bodily contact. It also stipulates that any agency that removes water from the reservoir for domestic use meet certain requirements for treatment and/or discharge into the ground.

The California Department of Public Health (CDPH) developed a draft document titled *Guidelines for Evaluating Applications for Recreational Use Permits at Domestic Water Supply Reservoirs* in November 2000. This document provides guidance for managers of domestic supply reservoirs which have existing or proposed recreational uses, and was the basis for the District's 2002 Nacimiento Reservoir Recreation Report.

The purpose of the Nacimiento Reservoir Recreation Report is to describe recreational use of Nacimiento Reservoir with regard to its potential ability to impact the quality of the water as used for domestic supply. The report includes a description of the reservoir and watershed, recreational activities and facilities, and water quality control measures.

Resources used to prepare this Recreation Report update include information provided by public agencies and private entities that operate facilities around the reservoir and from publicly available documents. References are listed at the end.

3 NACIMIENTO WATER PROJECT INTAKE STRUCTURE

The intake structure for the Nacimiento Water Project is located at the easternmost end of Nacimiento Reservoir on the north shore, adjacent to the dam, as shown in Figure 1. It has 7 intake portals located at 20' intervals from 660' to 780' elevation. The pump station is housed in a locked building, and is further protected from unauthorized entry by a fence with a locked gate. Because the pipeline delivers raw water only, no treatment chemicals are stored at the pump station.

All of the land surrounding the intake structure and pump station is owned by MCWRA. The shoreline adjacent to the intake structure is protected by fencing. The terrain which surrounds the intake facility yard is rugged and there are essentially no suitable locations available for parking in the immediate vicinity. San Luis Obispo County Code Section 11.20.150 prohibits parking in other than designated areas. "No Parking" and "No Trespassing" signs are posted at frequent intervals along the roads and fences around the intake area. Water agency staff are frequently on site. District operations staff visit the pump station daily. MCWRA facilities are located in the immediate vicinity of the NWP intake facility and are visited frequently by MCWRA staff.

A new log boom which prevents public access to the intake from the water was installed in June 2008 (Figure 3). It was positioned to maintain a distance of at least 500 feet from the intake structure at its closest point (Figure 4). It is very visible (bright orange), and has buoys at 112' intervals. The log boom is owned and maintained by MCWRA. San Luis Obispo County Code Section 11.20.110 prohibits operation of recreational vessels between the log boom and the dam.



Figure 3: Nacimiento Reservoir log boom, NWP intake, dam

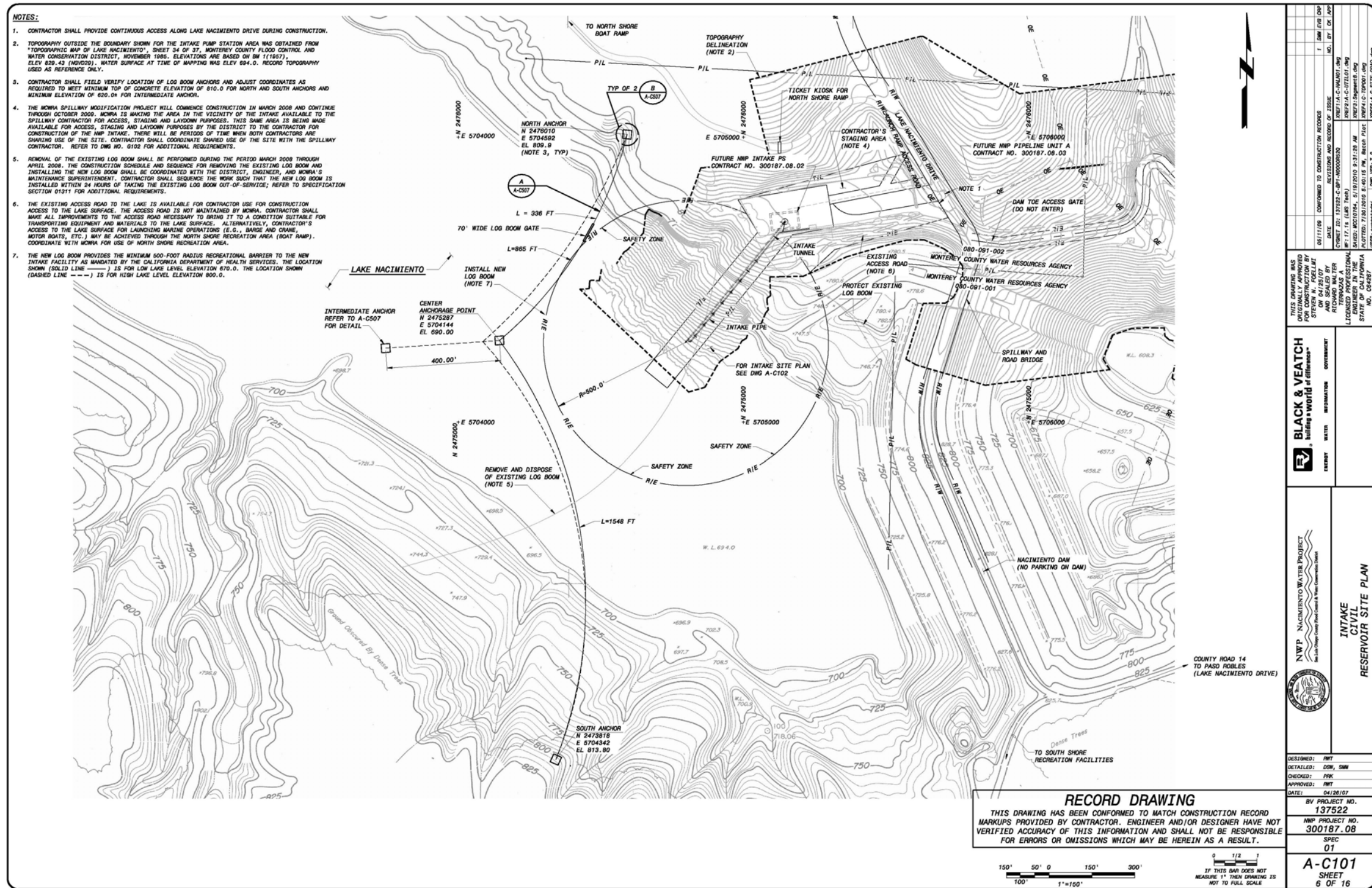


Figure 4: Log Boom Record Drawing

4 RESERVOIR AND WATERSHED INFORMATION

4.1 Reservoir

Built in 1957, Nacimiento Reservoir has a maximum storage capacity of 377,900 acre-feet and a surface area of 5,727 acres at the spillway crest elevation of 800 feet above mean sea level (NGVD 29). At maximum capacity, there are 165 miles of shoreline. Because the primary use of the reservoir is for downstream groundwater recharge, water releases can be significant, especially during dry spells. This, coupled with a watershed that can collect significant amounts of water in a single storm, means that reservoir surface elevations can vary dramatically, ranging from 670 to 800 ft. above MSL, changing as much as 130 ft. in either direction in a single year. The reservoir is monomictic – it develops a thermocline in the spring, is thermally stratified throughout the summer, then turns over in the fall and remains at a nearly uniform temperature from top to bottom throughout the winter. The prevailing current direction is from west to east.

There is approximately 10,000 acre-feet of storage below the low level outlet works invert elevation of 670 feet. Table 1 shows the relationship of capacity and surface area to various lake elevations.

Elevation (Feet MSL) (NGVD 29)	Capacity (acre-feet)	Surface Area (acres)	Notes
800	377,900	5,727	Spillway elevation
790	323,050	5,339	
780	272,900	4,786	
770	227,500	4,289	Public boat launch ramps are operational in 768.5-769.5 ft range.
760	186,950	3,829	
750	150,950	3,362	Below elevation 748' is defined as a drought condition per MOA between MCWRA and the California Dept of Fish and Game
740	119,450	2,939	
730	92,150	2,520	Elevation above which most boat launches around reservoir are operational
720	69,000	2,108	
710	50,150	1,670	
700	35,450	1,292	
690	24,300	960	Minimum pool is at elevation 687.8'; lowest elevation at which water is available to MCWRA for release
680	16,150	680	
670	10,300	520	Location of Low Level Outlet Works at dam

Source: MCWRA/SLO Co FC&WCD Recreation Report for Nacimiento Reservoir, June 2002

At maximum storage capacity, the calculated residence time is 21 months. If the water level drops to 687.8 feet, a capacity of 22,300 acre-feet, a 1959 agreement between the District and MCWRA requires that the only water to be released will be to meet the District's entitlement of 17,500 AFY. In that case the calculated residence time would be 15 months.

4.2 Watershed

A 325 square mile watershed channels runoff to the reservoir via the Nacimiento River and several tributaries (Figure 5). The river is 52 miles long from its headwaters to the dam.

The upper watershed is located nearly entirely in Monterey County, and makes up about half of the entire watershed. It is primarily characterized by steep, rugged, undeveloped, mountainous terrain. The headwaters of the river are located in Los Padres National Forest (LPNF). The river travels 10 miles through LPNF, then 18 miles through Fort Hunter Liggett, a federal military training installation. It then travels 7 more miles before reaching the 800' elevation, which marks the starting point of the reservoir.

The reservoir is 17 miles long from the 800' elevation to the dam. The lower watershed, which drains directly into the reservoir, is located nearly entirely in San Luis Obispo County, and is comprised of a mixture of terrains and uses. The majority of the lower watershed, while less mountainous than the upper watershed, is also rugged and mostly undeveloped; much of it is classified as agricultural, with grazing occurring throughout (Figure 6).

Surrounding the reservoir itself are many residential communities that were established for the purpose of providing recreational opportunities at the reservoir. There is one large lakeside public recreation area as well. The most significant lakeside developments are the public recreation area (Lake Nacimiento Resort) and the private communities of Heritage Ranch and Oak Shores.

Lake Nacimiento Resort, the public recreation area, is located on the south side of the reservoir, on the east end, about one mile from the dam and from the Nacimiento Water Project intake structure. It is owned by MCWRA and operated by the Monterey County Parks Department. From 1972 until 2007 resort operations were provided by a private leaseholder. In 2007 the lease agreement was terminated and the Monterey County Parks Department (MCPD) assumed all operational responsibilities for the resort. The resort facilities had fallen into serious disrepair, and MCPD has made many major improvements to the infrastructure since 2007, investing several hundred thousand dollars in the last three years.

Heritage Ranch is a private (gated) residential community with 1,750 currently developed lots, and another 340 lots which have been approved for development. The San Luis Obispo (SLO) County Master Plan allows for a total of 2,900 residential units in Heritage Ranch. For many

years most houses in Heritage Ranch were vacation homes. This has changed in recent years however, and the population is now primarily comprised of full-time residents (~70%). Recreational facilities are owned and operated by the Heritage Ranch Owner's Association. Drinking water and wastewater services are provided by the Heritage Ranch Community Services District. Solid waste collection services are provided by the CSD via a franchise agreement with a private garbage company.

Oak Shores is a private (gated) community with 634 currently developed lots, and an additional 278 lots that have been approved for development. This community continues to be primarily vacation homes, although there is a small year-round contingent (~20%). Recreational facilities are owned and operated by the Oak Shores Community Association. Drinking water is provided by the Nacimiento Water Company. Wastewater service is provided by the San Luis Obispo County Services Area #7A. Solid waste collection services are provided by a private garbage company.

Other, smaller lakeside communities include Northshore S&B (formerly known as Northshore Ski & Boat Club), Laguna Vista Boat Club, Christmas Cove, Running Deer Ranch, Cal Shasta Club, Ranchos del Lago, Tri-Counties Ski Club and South Shore Village; the total number of developed lots in these communities is approximately 450. Additionally, there are approximately 100 individually developed lots around the lake shore (~78 on the south shore and ~22 on the north shore). All of these homes are served by on-site wastewater collection and treatment systems except for Laguna Vista Boat Club, which has an on-site collection system and off-site disposal.

The total number of currently developed lakeside lots is approximately 2,933. Most residences are occupied only seasonally, except for Heritage Ranch.

The remainder of the lower watershed is largely used for agricultural purposes. There are two private camps located several miles south of the reservoir in the Las Tablas Creek watershed (Camp Natoma and 7X Youth Ranch), which are used only seasonally. Camp Natoma is located about 7 miles from the main body of the reservoir. 7X Ranch is located about 10 miles from the main body of the reservoir.

Limited recreation also occurs in the upper watershed. The northernmost reach of the Nacimiento River is located in the Monterey District of the Los Padres National Forest. There are two small Forest Service campgrounds located adjacent to the Nacimiento River (31 sites total). Also, hunting and fishing are allowed on Fort Hunter Liggett (FHL). Overnight camping is not permitted on FHL.

Recreational activities in the upper watershed and at the two private camps in the lower watershed are distant from the reservoir and limited in scope. Therefore, this report will only discuss recreation that occurs at the reservoir itself.



Figure 5: Nacimiento Reservoir watershed

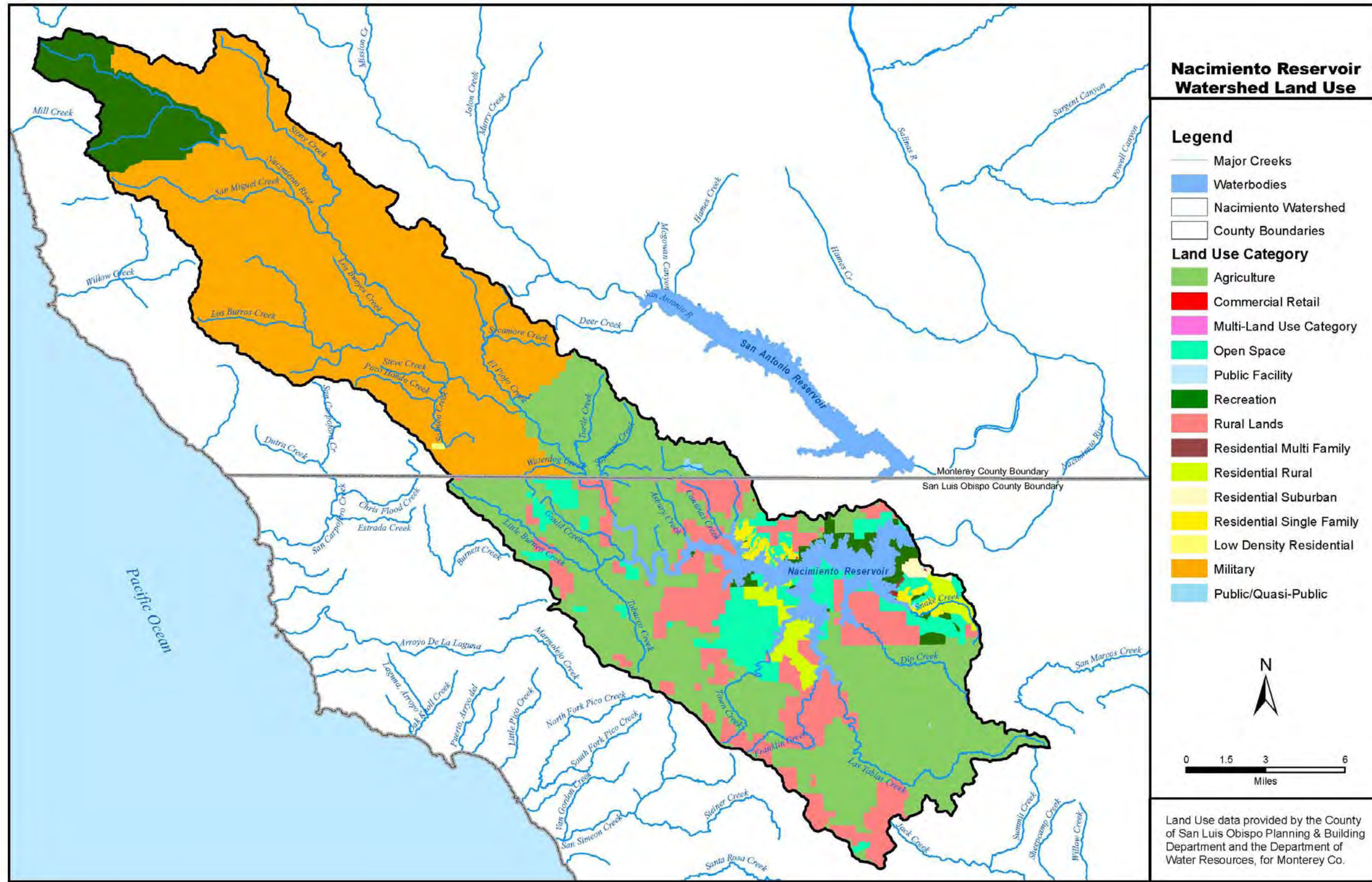


Figure 6: Land Use

5 RECREATIONAL ACTIVITIES

Nacimiento Reservoir allows for many types of recreation, both on shore and on the water, including camping, hiking, horseback riding, fishing, boating, swimming, water skiing, and personal water craft use.

Lake Nacimiento Resort provides the most extensive recreation facilities at the reservoir, and the only facilities that are open to the general public. Resort amenities on the south shore include approximately 330 camping spaces, a 19 unit lodge, a restaurant, a market, laundry facilities, picnic areas, a swimming pool, horseshoe pits, volleyball and basketball courts, a marina including a large paved parking lot, two boat launch ramps, docks, boat rentals, and a fish cleaning station. Resort amenities on the north shore are limited to a boat launching ramp which is open for day use only.

Heritage Ranch, Oak Shores, other lakeside residential developments, and recreational clubs also contribute visitors to the lake area at their respective facilities. In addition to both permanent residences and vacation rental homes, Heritage Ranch and Oak Shores each have a small campground, marina, boat launch ramps, picnic areas, and swimming pools. Heritage Ranch also has an equestrian facility.

The only publicly available usage statistics for the reservoir are compiled by the Monterey County Parks Department. MCPD issues annual and day use permits for all vessels that use the reservoir and uses that data to generate boating attendance figures; these records are available for the past several years. MCPD also issues camping and day use permits for Lake Nacimiento Resort; these records are only available beginning in June 2009. All attendance records are compiled by MCPD on a weekly basis.

Boating attendance records for 2001-2010 show significant variation in attendance from week to week, month to month, and year to year. Boating attendance records for this time frame show the following:

- Highest annual boating attendance was 197,319 in 2005
- Lowest annual boating attendance was 94,380 in 2008
- Average annual boating attendance for this time frame overall was 156,288.

Boating attendance figures are based on the number of vessel day use permits issued at the resort and at other locations around the reservoir, plus the number of vessels that enter the resort bearing an annual permit. These numbers are multiplied by an attendance factor of 2.5, so the attendance figures above represent the following:

- A high of 78,928 vessels in 2005
- A low of 37,753 vessels in 2008
- An annual average of 62,515 vessels.

The highest boating attendance occurs from March through August (Figure 7). Peak weekly attendance typically occurs around Memorial Day. During the 2001-2010 time frame, the highest weekly boating attendance was 23,403, during Memorial Day week in 2003, which averages to 1,337 vessels per day (Figure 8).

Camping and day use attendance are only available for a 2 year period as of this writing, so meaningful comparisons of annual data cannot be made for these activities. However, monthly and weekly data can be informative. Camping and day use attendance records since July 2009 show the following:

- Camping
 - Peak weekly attendance of 10,030 in August 2010 (average 1,432/day)
 - Peak monthly attendance of 28,626 in August 2010 (average 923/day)
 - Average annual attendance for July 2009-March 2011 was 71,414 (196/day)
- Day use
 - Peak weekly attendance of 6,492 in July 2010 (average 927/day)
 - Peak monthly attendance of 25,593 in August 2010 (average 825/day)
 - Average annual attendance for July 2009-March 2011 was 97,513 (267/day)
- Total attendance (camping + day use)
 - Average annual attendance for July 2009-March 2011 was 168,927 (463/day)

Camping and day use attendance statistics are calculated as follows:

- Camping attendance = number of camping permits issued x 3
- Day use attendance¹ = (number of daily permits issued x 3) + (number of annual day use permits used x 60)

See Figure 9 for a graph of camping and day use attendance since 2009. The sum of camping and day use attendance essentially represents total park attendance, because all boaters who enter the park must do so using either a day use permit or a camping permit.

¹ The loading factor for Annual Day Use Passes is undoubtedly high. All raw attendance data is reported here as received from Monterey County Parks Department.

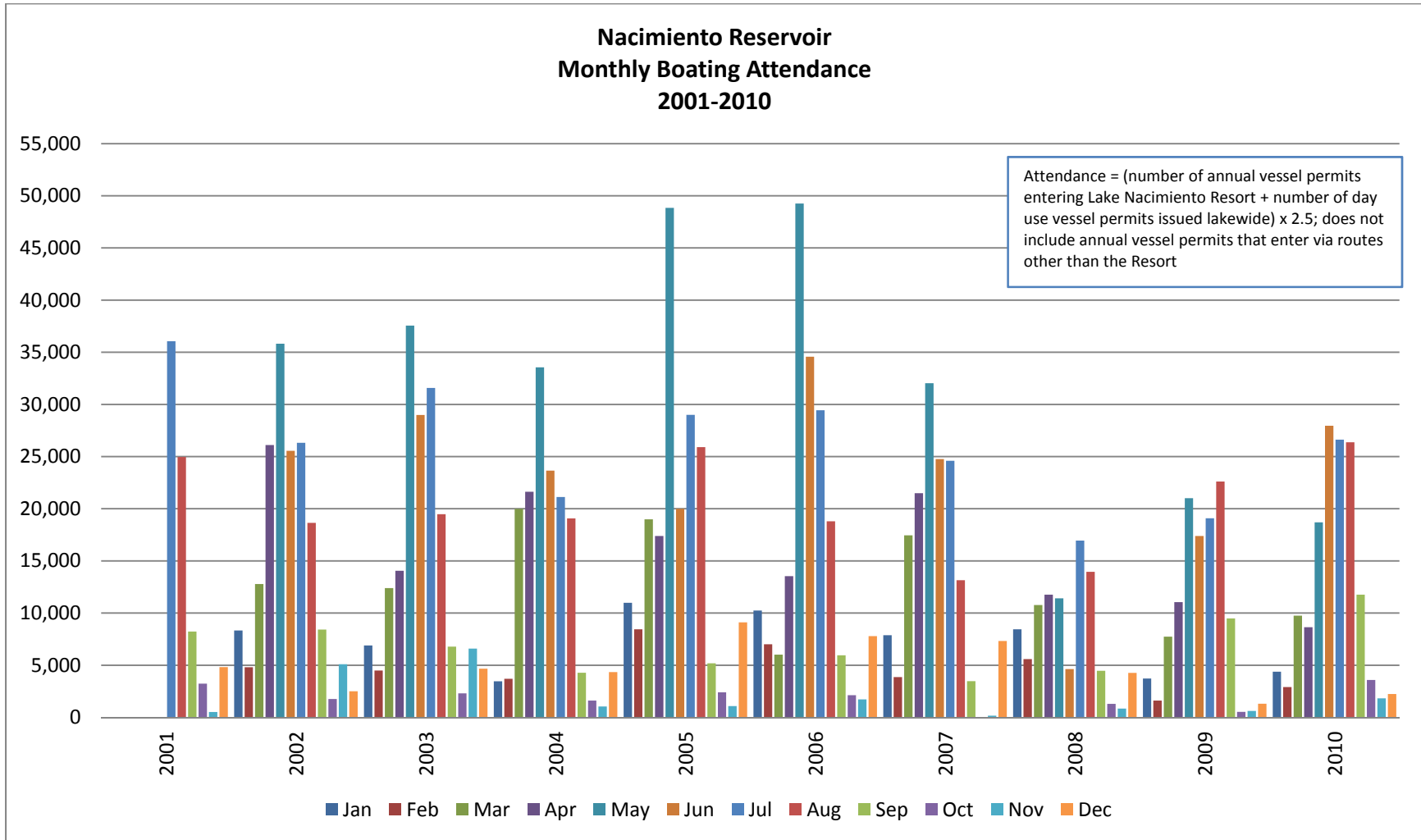


Figure 7: Monthly Boating Attendance

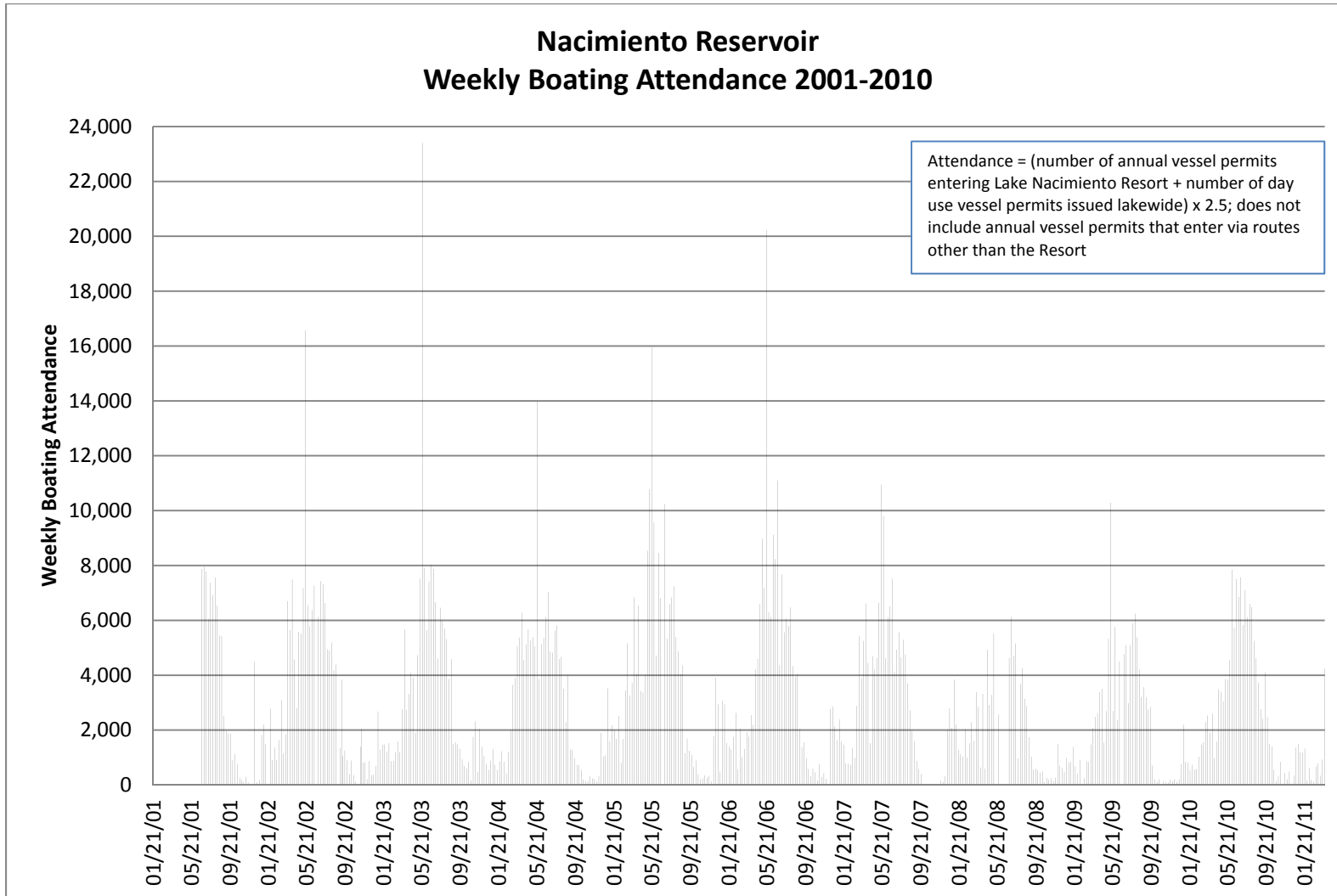


Figure 8: Weekly Boating Attendance

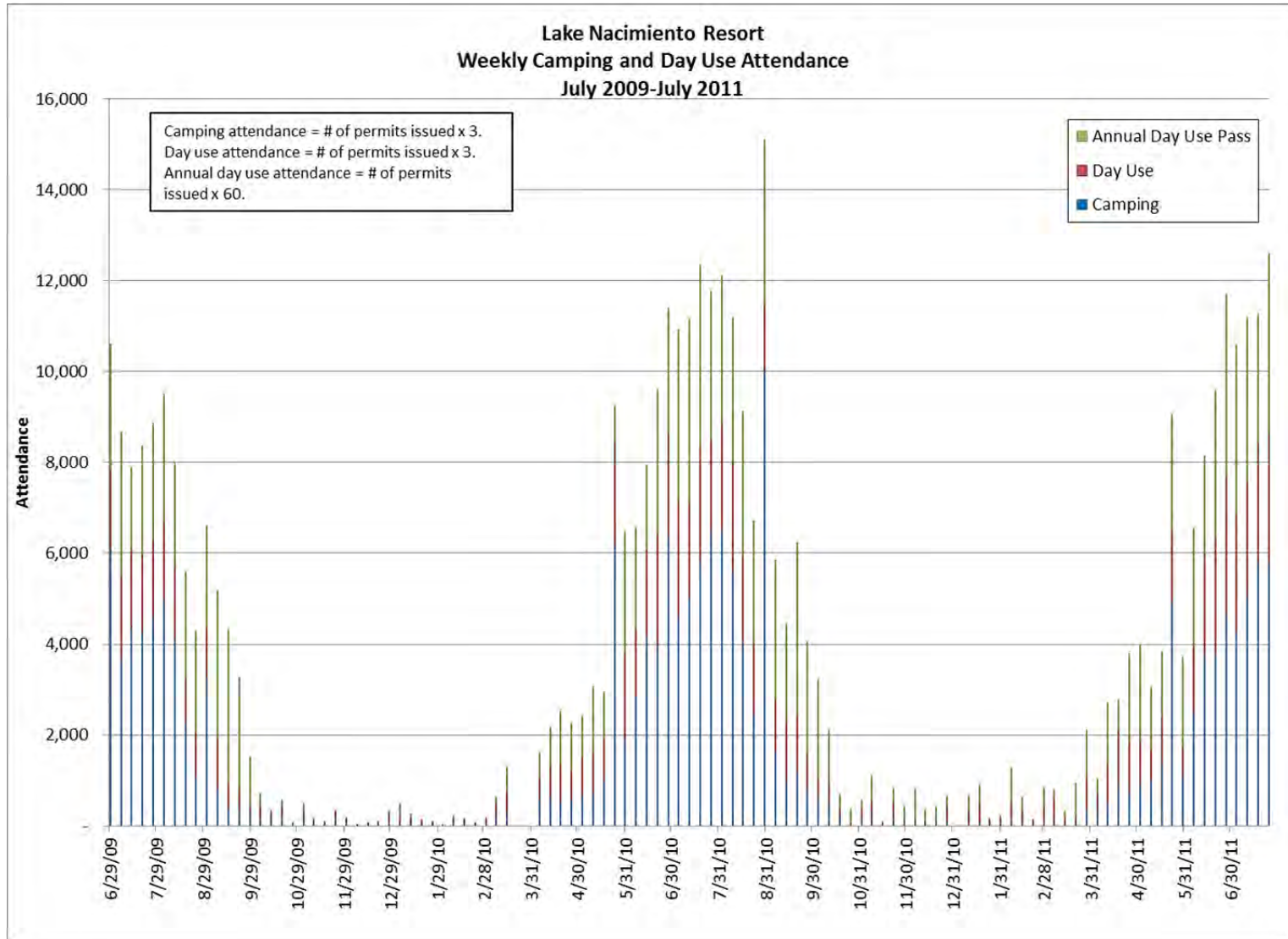


Figure 9: Camping and Day Use Attendance

6 CONTROL PROGRAM

Recreation at Nacimiento Reservoir and within Lake Nacimiento Resort is governed by Chapter 11.20 of San Luis Obispo County Code. This entire chapter was revised in 2010; key revisions include language that strengthens water quality protection and also gives enforcement authority to the Monterey County Parks Department as well as the San Luis Obispo Sheriff's Department. A copy of this chapter is included in Appendix A.

Most lakeside communities have rules and regulations that control activities within those communities, and they levy fines for rule violations. These rules relate primarily to land use and community living; water quality protection is generally incidental to the rules, therefore copies are not included in this report. Rules and regulations for Heritage Ranch and for Oak Shores may be found on those community's websites.

6.1 Boating Activities

Three public boat launch ramps are operated by Monterey County Parks Department at Lake Nacimiento Resort; two are located adjacent to each other at the main marina on the south shore about a mile from the NWP intake structure, and one is located on the north shore about a half mile from the intake structure. Boating activities include fishing, water skiing, wakeboarding, and personal watercraft use. There is a slalom course for water skiers in the Dip Creek tributary.

The Resort has a fish cleaning facility in the marina parking lot, approximately 200 feet horizontally from the high water line (HWL) of 800' MSL. MCPD recently replaced the old fish cleaning facility with a new one, which drains into the septic system and is well maintained. Covered trash containers are provided on site for solid waste, and are routinely inspected and maintained (Figure 10, Figure 11).



Figure 10: Old fish cleaning station



Figure 11: New fish cleaning station

Heritage Ranch has a small marina with one boat launch ramp and a fish cleaning facility, which are all owned and operated by the Heritage Ranch Owners Association (HROA). The fish cleaning facility is located at the marina approximately 200 feet horizontally from the HWL. Solids are pumped out periodically, and waste water flows into the sewage collection system and on to the treatment plant.

Oak Shores has two boat launch ramps, one at a small marina that has a paved parking lot, and a second ramp that is about a half mile to the west of the main marina (no parking lot). Oak Shores does not allow cleaning of fish at their marina.

Other private communities and several individual lots around the reservoir also have boat ramps. Some are fully developed concrete ramps, others are simple dirt access points. An

informal survey of all such ramps was conducted by District staff by examining aerial photographs of the reservoir. Staff estimated that roughly 33 private boat ramps are used around the reservoir, in addition to the public ramps at Lake Nacimiento Resort (Figure 12).

San Luis Obispo County Code Sections 11.20.110 and 11.20.120 regulate vessel usage at Nacimiento Reservoir. Section 11.20.110 prohibits operation of recreational vessels between the log boom and the dam. Section 11.20.120 authorizes the Monterey County Parks Department to establish and designate health, sanitation, and pollution standards for vessels operating at Nacimiento Reservoir. It further authorizes the Monterey County Parks Department, the San Luis Obispo County Sheriff's Department, and other peace officers to inspect all vessels, trailers, and vehicles entering Nacimiento Reservoir for compliance with this section, as well as with all other applicable regulations pertaining to health, safety, and sanitation of Nacimiento Reservoir and related infrastructure. Among other restrictions, this section prohibits:

- launching of vessels that are polluted, not seaworthy or sanitary, or infested with invasive aquatic species
- use of vessels that possess an operable sink drain or toilet, without a permit
- operation of any vessel bilge pump causing a discharge of material into the lake, except in case of emergency
- discharge of vessel washing waste into the lake, streams, or the shore, except in designated areas

All vessels must obtain a permit to operate from the Monterey County Parks Department (MCPD) on either a daily or yearly basis. The permits must be carried on the vessel at all times. The MCPD operates an entry station at the resort entrance, and maintains year round patrols of the reservoir.

When MCPD assumed responsibility for operating Lake Nacimiento Resort in late 2007 it found that most infrastructure was in serious disrepair, including the docks. In October 2009 a major storm damaged the old docks beyond repair. MCPD removed the damaged docks and installed brand new docks and all associated infrastructure in spring 2010. The new dock has 142 slips, a small store, a fueling station, and water flush restrooms. The new dock floats use completely encapsulated foam.

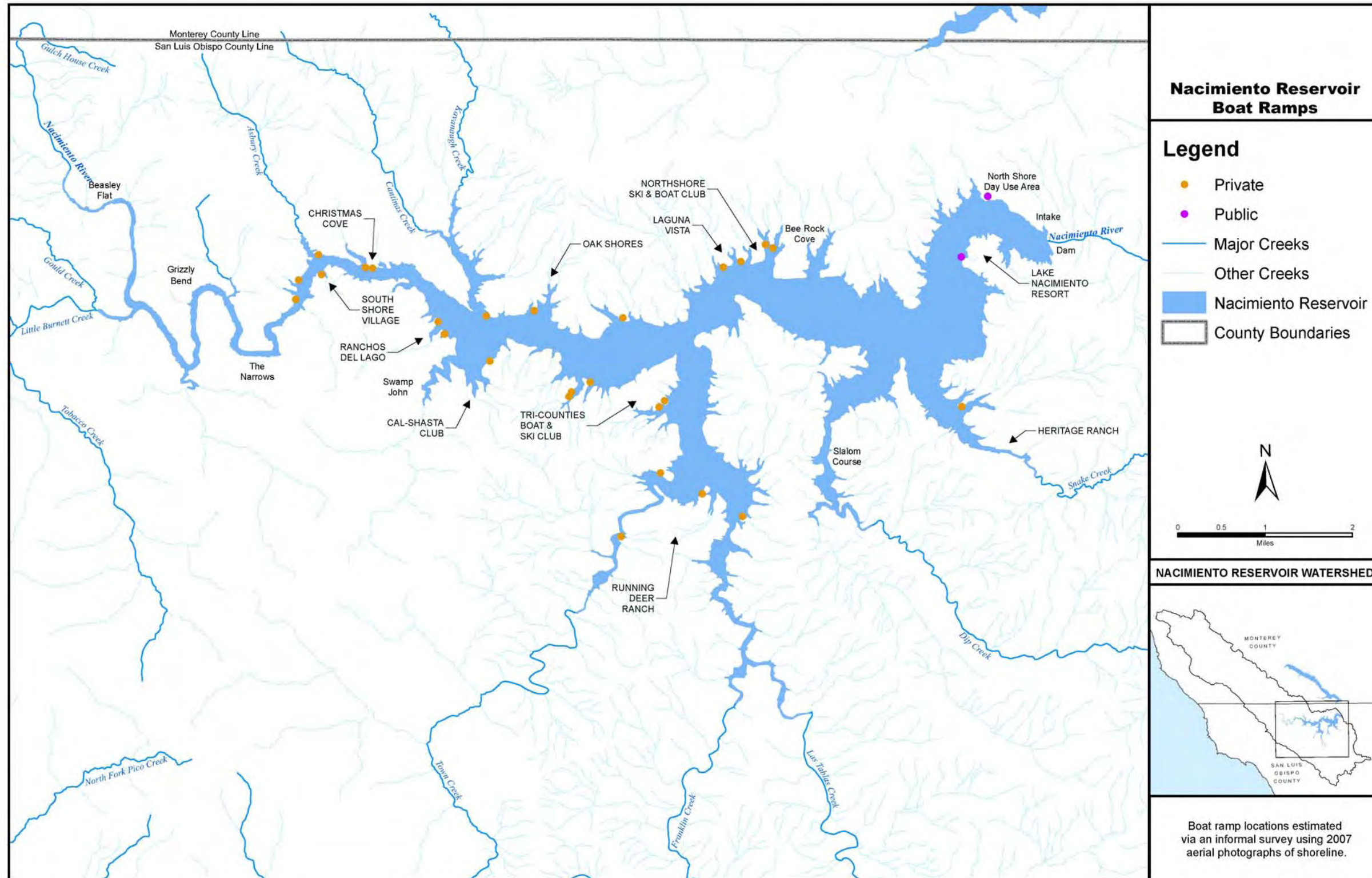


Figure 12: Boat Ramps

MCPD has made numerous other improvements for boaters as well, including significant upgrades to the marina parking lot. When the parking lot was upgraded, a storm drain with an oil separator was installed, and riprap was placed below the storm drain outlet (Figure 13, Figure 14).



Figure 13: New storm drain



Figure 14: New storm drain with oil separator & rip rap

A fueling facility is located on the dock at the Lake Nacimiento Resort marina (Figure 15). Two double-walled 12,000 gallon underground storage tanks are located beneath the marina parking lot. A pipeline runs underground from the storage tanks for approximately 100 yards, then daylights and runs above ground along the shore to the fuel pumps on the dock (Figure 16, Figure 17). The distance to the pumps varies as the reservoir surface elevation changes and the docks are moved accordingly, but can be as great as approximately 400 yards. A new above ground fuel line was installed in spring 2010; it is triple walled and is sectioned into 250 ft lengths. At each junction there is a sump with a leak detector that is part of an automatic shutoff system that includes both visual and audible alarms (Figure 18, Figure 19). When the lake level is low, MCPD installs barriers along the length of the above ground fuel line on both sides to reduce the risk of vehicles driving over it. The lines are inspected at least daily, and the entire system is inspected monthly.



Figure 15: Fuel pump on Resort docks

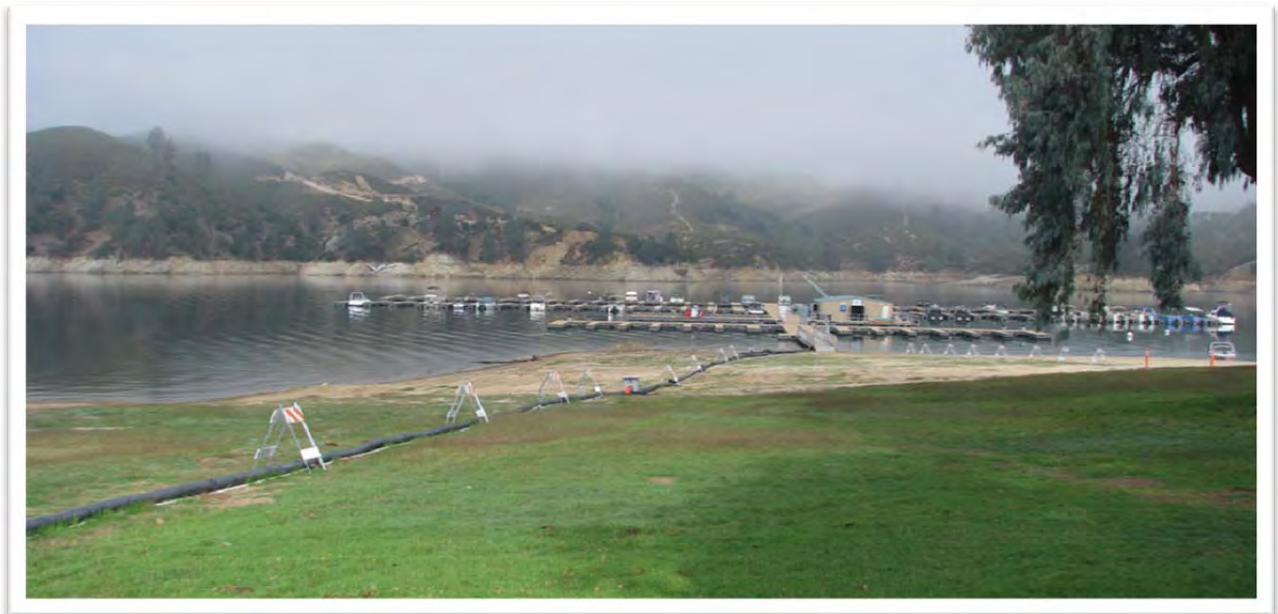


Figure 16: Lines that run to Resort docks, including fuel line



Figure 17: Lake Nacimiento Resort Potential Contaminant Sources



Figure 18: Fuel line sump exterior



Figure 19: Fuel line sump interior

All marina staff are trained in proper operation of the system. Several managers and staff who work at Lake Nacimiento Resort (MCPD and its management company) have completed training at the Hazardous Materials Technician level and are certified to respond to hazardous material spills for the purpose of mitigation. Some managers and staff at nearby Lake San Antonio are also trained to this level and can respond as needed. MCPD maintains 300 feet of floating containment boom on site for rapid spill response. An additional 300 feet of floating containment boom is maintained at South Shore Lake San Antonio and is available for rapid transport to Nacimiento Reservoir in an emergency.

Other than Memorial Day weekend, weekly boating attendance at the reservoir is generally below 10,000. Boating attendance is calculated by multiplying the number of vessel day use permits that are issued at several locations around the reservoir, plus the number of vessels that enter the resort with an annual permit, by an attendance factor of 2.5. So a boating attendance of 10,000 is equivalent to 4,000 vessels per week, or an average of 571 vessels per day. When the reservoir surface elevation is at 770', it provides a surface area of 4,289 acres. At typical attendance levels of <10,000 per week (<571 vessels per day), this translates to at least 7.5 acres per vessel, if all vessels are on the water at the same time. At a reservoir surface elevation of 780' (surface area of 4,786 acres), there is at least 8.4 acres per vessel.

The nature of the boat launch ramps at Lake Nacimiento naturally limits the number of boats which can access the reservoir as the elevation decreases. Table 2 shows the reservoir elevations at which selected launch areas are no longer functional.

Table 2: Nacimiento Reservoir Surface Elevations at which Boat Ramps can no longer function	
Boat Launch Area	Surface Elevation (feet above MSL)
Lake Nacimiento Resort Lodges Dock	777
Lake Nacimiento Resort Main Launch (high level)	767
Heritage Ranch Launch Ramp	735
Oak Shores Main Launch Ramp	725
Lake Nacimiento Resort North Ramp	719
Lake Nacimiento Resort Main Launch (low level)	680

Source: MCPD/SLO Co FC&WCD Recreation Report for Nacimiento Reservoir, June 2002

A new concern has arisen in recent years related to boating, which is the potential introduction of non-native species, especially quagga mussels or zebra mussels, to the reservoir via a vessel that has recently been in another, infested reservoir. These non-native mussels are filter feeders; they strain out certain phytoplankton while rejecting others, and produce a waste product called pseudofeces that contains concentrated toxins and that decreases pH in the surrounding water. An infestation of these mussels could result in increased water clarity, increased water temperature at greater depths, an increase in blue-green algae, and other changes in the reservoir's ecology and water quality. Moreover, the mussels attach to both hard and soft substrates and reproduce in prodigious numbers; for waterworks facilities this results in clogged pipes and reduced flows, as well as creating corrosive conditions on metal surfaces.

Quagga mussels have infested several reservoirs in southern California, and zebra mussels have infested one reservoir north of Nacimiento Reservoir (San Justo, in San Benito County). The infested reservoirs in southern California continue to allow boating, and there is no control program for vessels leaving those reservoirs. San Justo Reservoir is closed to all recreational use.

Nacimiento Reservoir is at high risk for a mussel infestation due to its high visitorship, its large number of access points, and its innate characteristics (generally warm water, calcium levels well above the threshold needed for mussel growth, etc). Several agencies have jurisdiction on Nacimiento Reservoir and its surroundings; this along with the multiplicity of access points and a difficult fiscal climate have made it challenging to develop and implement an effective mussel prevention program.

In May 2010 SLO County adopted a new ordinance designed to help prevent mussel introduction into Nacimiento Reservoir (SLO County Code Section 11.20.120). That same year an initial prevention program was developed through a cooperative effort that included the San Luis Obispo County Public Works Department, Monterey County Parks Department, Monterey County Water Resources Agency, Oak Shores Community Association, Heritage Ranch Owners

Association, and other private parties around the reservoir. The main emphasis of those efforts was boater education, along with a self-certification program in which boaters were required to verify that their vessels were clean, drained, and dry, and did not carry invasive mussels. Additionally, some vessel screenings were performed, however, the inspection program was limited in scope and some vessels entered the water without having been inspected.

In May 2011 a mandatory vessel screening program was implemented at all ramps, both public and private. Seventy inspectors around the reservoir received PSMFC WIT Level One training² in 2010, and 150 more inspectors were scheduled to receive Level One training in spring 2011. Lakeside communities have responded positively to this challenge, and it is expected that the program will continue to strengthen with additional time, effort, and funding.

² Pacific States Marine Fisheries Commission (PSMFC) Watercraft Inspection and Decontamination Training (WIT) Level One. Level One training is provided by local agency staff who have received Level Two Training directly from PSMFC.

6.2 Swimming

Developed day use areas, including parking lots, picnic facilities, and boat launch ramps, are located within a mile of the intake structure and dam. The majority of shoreline along the first eight river miles from the dam is open for day use and swimming.

SLO County Code Section 11.20.230 prohibits the following:

- swimming or floating farther than 100 feet from the shoreline except while on an aquaplane and except at designated areas signed for swimming
- swimming within 300 feet of public docks or commercial marinas
- swimming, rafting, or other water contact activity between the log boom and the dam

Pets are prohibited from swimming areas as they must be on a leash and attended at all times, per SLO County Code Sections 11.20.170 and 9.08.020.

6.3 Toilets

Lake Nacimiento Resort has six campgrounds; five have water flush restrooms and one relies on chemical toilets. Water flush restrooms are also located adjacent to the swimming pool near the largest campground. Three water flush restrooms are located at the marina – one adjacent to the market, one in the marina parking lot, and one on the docks. All toilet locations are



Figure 20: New flush restroom at marina

shown in Figure 21 except those on the docks, which are classified as floating toilets and are shown in Figure 23. The parking lot restroom is a brand new, clean and well-kept facility; it replaces old chemical toilets which were often unpleasant, and therefore little used, and were subject to blowing over in the wind. The old chemical toilets can be seen in the background of Figure 10; the new restroom is shown at left (Figure 20).

The restroom on the docks is also brand new, clean and well kept. Its 175 gallon holding tank is pumped up to the nearest septic tank on shore via a 2 inch line which is protected from vehicles by the same barriers that protect the above ground fuel line (Figure 16, Figure 17). Shutoff valves are located along the line, and a check valve at the top of the line prevents backflow from the septic tank. The line is inspected daily. The holding tank has two pumps which turn on in sequence as needed. If the tank level continues to rise after the second pump turns on, then water supply to the restrooms is automatically shut off, and visible and audible alarms sound.

MCPD has 22 portable chemical toilets which are placed around the recreation area as needed, including the north shore day use area as well as the day use area on the south shore. Typically only 2-3 portable toilets are used during the off season, while all 22 or more are used in the summer season. Additional portable toilets are rented when needed for peak usage periods.



Figure 21: Lake Nacimiento Resort Wastewater Collection

MCPD places three movable floating toilets on the reservoir itself, that can be towed to any location (Figure 22). The locations may change depending on need; as of this writing one is in Dip Creek (~3.5 miles from the NWP intake), one is in Las Tablas Creek (more than 5 miles from the NWP intake), and one is in a cove just east of Oak Shores (~6.5 miles from the NWP intake). The water flush toilets that are located on the docks are also classified as floating toilets, however, they are only as mobile as the docks. All floating toilets are designed to automatically shut down when full. Approximate locations of floating toilets at this time are shown in Figure 23.



Figure 22: Floating toilet in cove on Nacimiento Reservoir

All toilets are inspected daily in the summer and at least weekly in the off season. MCPD has its own pumper truck on site; MCPD staff pump out the chemical toilets and floating toilets as often as needed to maintain sanitary conditions. MCPD also hires a private company to assist with servicing toilets as needed.

Heritage Ranch and Oak Shores both have plumbed restrooms in their campgrounds. Heritage Ranch has both plumbed restrooms and portable toilets at its marina. Oak Shores has plumbed restrooms at the main marina and portable toilets at the west side launch ramp. Running Deer Ranch places portable toilets at its marina during the summer months.

When SLO County Code Chapter 11.20 was revised in May 2010, a new section (11.20.200) was added prohibiting urination or defecation in a public place other than a toilet. This kind of activity had especially been a problem at the Resort before MCPD took over operations and built the plumbed restrooms at the marina parking lot and on the docks, as the old portable toilets were often unsanitary, and in the heat of the summer were especially unpleasant, and therefore were little used. Building and maintaining new, plumbed facilities has reduced this problem significantly, along with aggressive enforcement of this provision by MCPD rangers.

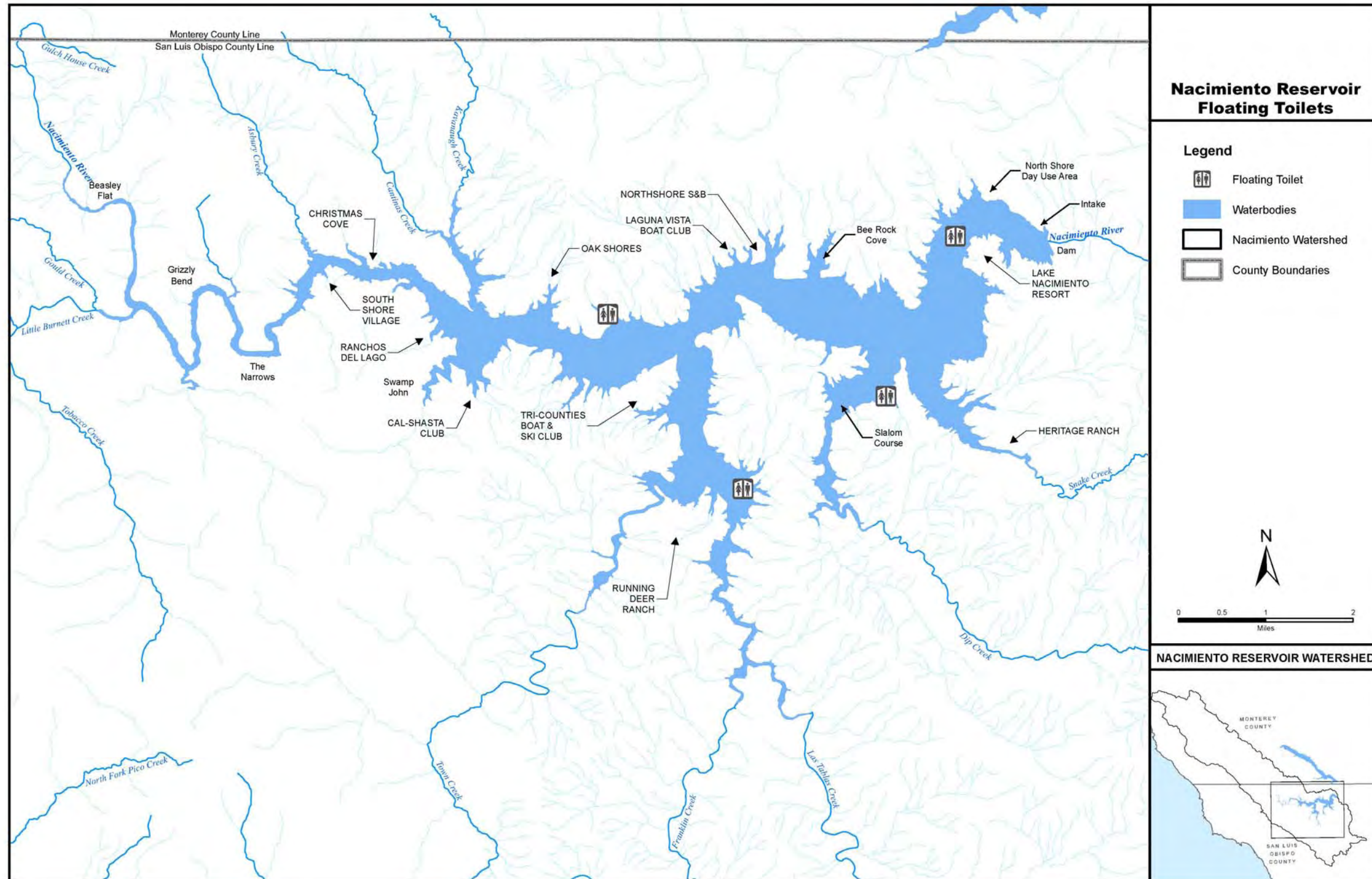


Figure 23: Lake Nacimiento Floating Toilets

6.4 Trailer Sanitation Stations

At Lake Nacimiento Resort MCPD recently built a new, lighted, two lane trailer dump station that is connected to the Resort's sewerage system (Figure 24). It is located in the marina parking lot, approximately 450 feet horizontally from the HWL. This facility replaces the old, inadequate, poorly maintained dump station that was prone to overflowing. The new station is clean and well kept, and encourages proper disposal of both grey and black water from trailers.



Figure 24: New trailer sanitation station

6.5 Individual, Onsite Sewage Disposal Systems

Individual onsite sewage disposal systems are used in the communities of Cal Shasta Club, Christmas Cove, Ranchos del Lago, Running Deer Ranch, South Shore Village, Tri Counties Ski and Boat Club, portions of Heritage Ranch, and in all individually developed lots, totaling about 670 in all. These lots and communities are scattered along both the north and the south shore of the reservoir (Figure 25). All such systems are located on parcels that are at least one acre in size.

The Central Coast Regional Water Quality Control Board (RWQCB) Basin Plan, California Plumbing Code, and San Luis Obispo County Code all govern the design and installation of onsite sewage disposal systems. The primary section of SLO County Code that regulates these systems is Title 22 Chapter 22.102; this section of code is specific for the Nacimiento Planning Area, and includes the following prohibitions regarding individual sewage disposal system installation:

- no system may be installed on lots smaller than 2.5 acres per dwelling unit, except in a cluster subdivision that has a maximum density of 2.5 acres or more per dwelling unit
- no system may be installed below an elevation of 825 ft MSL
- no system may be installed closer than 200 ft, horizontal projection, from the high water line of 800 ft.

A copy of this section of county code is included in Appendix B. Additional regulations are found in SLO County Code Title 19 Chapter 19.70 (Buildings and Construction – Plumbing Code), Title 8 (Health and Sanitation), and other portions of Title 22 (Land Use). All site plans and construction projects are inspected and approved by County Planning and Building Department staff. Verification that existing systems meet these criteria proved difficult however, due to an outdated record-keeping system.

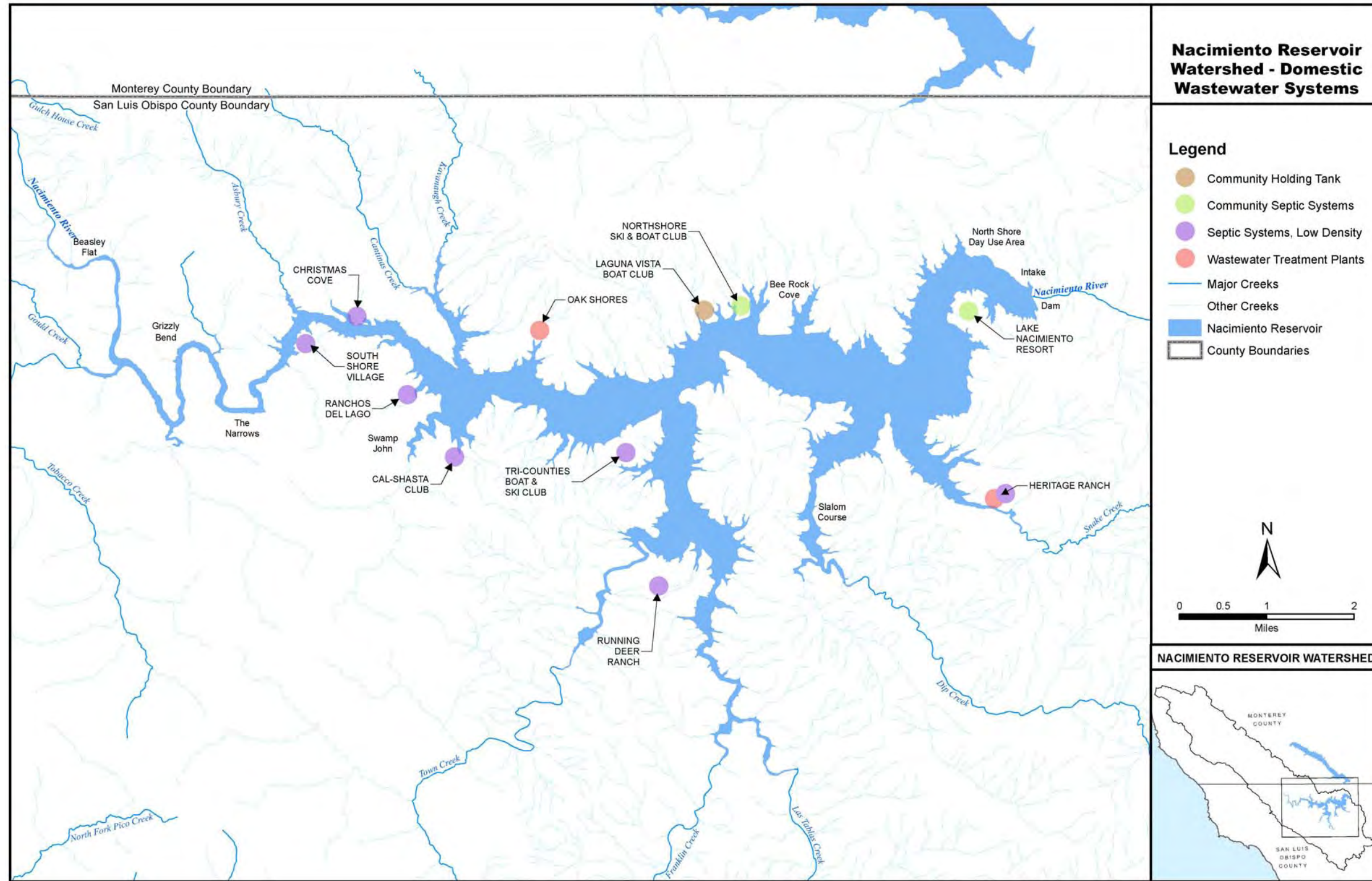


Figure 25: Lake Nacimiento Domestic Wastewater Systems

6.6 Sewerage Systems

Four lakeside developments have community sewage treatment and disposal facilities; these are the public recreation area (Lake Nacimiento Resort) and three private communities (Heritage Ranch, Oak Shores, and Northshore S&B). Additionally, the small community of Laguna Vista (21 developed lots) has a community wastewater collection system and holding tank; the tank is pumped out and the waste water and solids are disposed of outside the watershed.

6.6.1 Lake Nacimiento Resort

System operation This public recreation area is served by a community septic system that is operated by Monterey County Parks Department staff under the provisions of Central Coast RWQCB Order No. 96-26. Staffing includes one full time Grade 1 certified wastewater operator, and all operations are overseen by a Grade 3 certified wastewater operator.

System description The system is comprised of 16 septic tanks and 10 lift stations. Total system design capacity is 36,000 GPD. At least 12 septic tanks and 7 lift stations are located more than 200 ft horizontally from the HWL; estimates based on an examination of aerial photographs indicate that up to 4 septic tanks and 3 lift stations may be located within 200 ft of the HWL. Effluent from septic tanks in the lower portion of the resort is consolidated in a holding tank in the Pine Knoll campground that is approximately 300 ft horizontally from the HWL. Effluent from the Pine Knoll lift station is pumped approximately 1.6 miles from this tank to a disposal area that is located outside of the reservoir watershed (percolation/evaporation ponds and spray field). Effluent from septic tanks in the upper campgrounds is consolidated in a holding tank in the Oak Knoll campground that is less than 200 ft horizontally from the HWL. Effluent from the Oak Knoll lift station is pumped up to the disposal area via the same force main that serves the lower portion of the resort. RWQCB Order No. 96-26 permits a maximum discharge of 36,000 gallons per day to the disposal area. Solid waste is pumped out of all of the tanks once a year and hauled out of the watershed for disposal. Figure 26 shows the wastewater collection system. Figure 27 shows the disposal area (percolation ponds, in lower right portion of figure).

Spill prevention and control All lift stations have both visual and audible high level alarms. A 20KW portable backup generator is located at the largest lift station (Pine Knoll). Two maintenance staff and one park ranger live on site and are available for 24 hour callout. A backhoe and a vacuum truck are both stored on site, and an additional vacuum truck is available within 17 miles at Lake San Antonio. Three hundred feet of containment boom is available at both Lake Nacimiento and Lake San Antonio, and the MCPD maintains emergency response vessels.



Figure 26: Lake Nacimiento Resort Wastewater Collection System

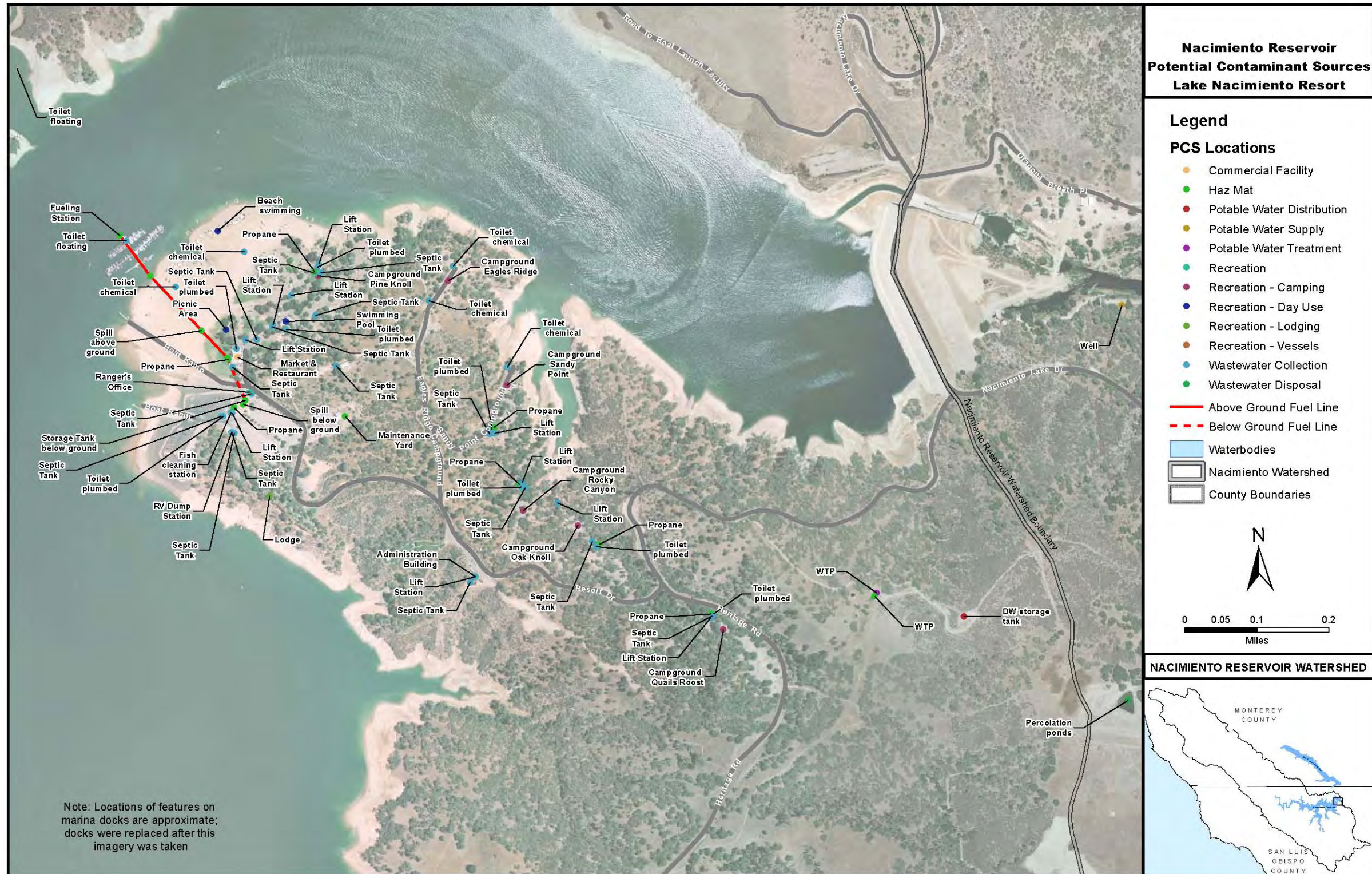


Figure 27: Lake Nacimiento Resort Potential Contaminant Sources

As with most other Resort infrastructure, when MCPD assumed operation of the wastewater system in late 2007 it found the facilities in severe disrepair. In the four years since then MCPD has made many major improvements to the wastewater system, investing over \$300,000 in materials and labor, including replacing and rebuilding most pumps, rebuilding lift stations, and installing alarm systems and electrical controls (Figure 28, Figure 29, Figure 30, Figure 31).



Figure 28: Old pump station (Pine Knoll)



Figure 29: Old pump station (Pine Knoll)



Figure 30: New pump station (Pine Knoll)



Figure 31: New pump station (Pine Knoll)

6.6.2 Heritage Ranch

System operation Most of Heritage Ranch is served by a community wastewater collection, treatment, and disposal system that is operated by the Heritage Ranch Community Services District (HRCSD) under the provisions of Central Coast RWQCB Order No. R3-2011-0007 and NPDES Permit No. CA0048941. The system currently has 1,590 connections, with an additional 290 undeveloped parcels that are approved for connection to the system. At present the District employs two certified Grade 2 wastewater treatment operators and three certified Grade 1 wastewater treatment operators.

System description Approximately 12 miles of collection line and 10 lift stations bring wastewater to the secondary level wastewater treatment plant. One lift station (LS #5) is approximately 200 ft horizontally away from the HWL; all other lift stations are further away, and all are at least 25 feet vertically above the HWL. The treatment plant is located approximately 1,100 ft horizontally from the HWL and has a design capacity of 0.4 MGD, however, actual flows are about half that amount. Effluent is pumped approximately 3.5 miles to a disposal area (storage pond, sand filters) that is located outside of the reservoir watershed. (Figure 32)

Spill prevention and control All lift stations have dual pumps. The District has five permanent backup generators and three portable backup generators to serve ten lift stations. The two lift stations that do not have dedicated generators have several days of storage capacity. The treatment plant and six of the most critical lift stations are equipped with a Supervisory Control and Data Acquisition (SCADA) system, which allows operators to monitor flow continuously. All lift stations have high level alarms.

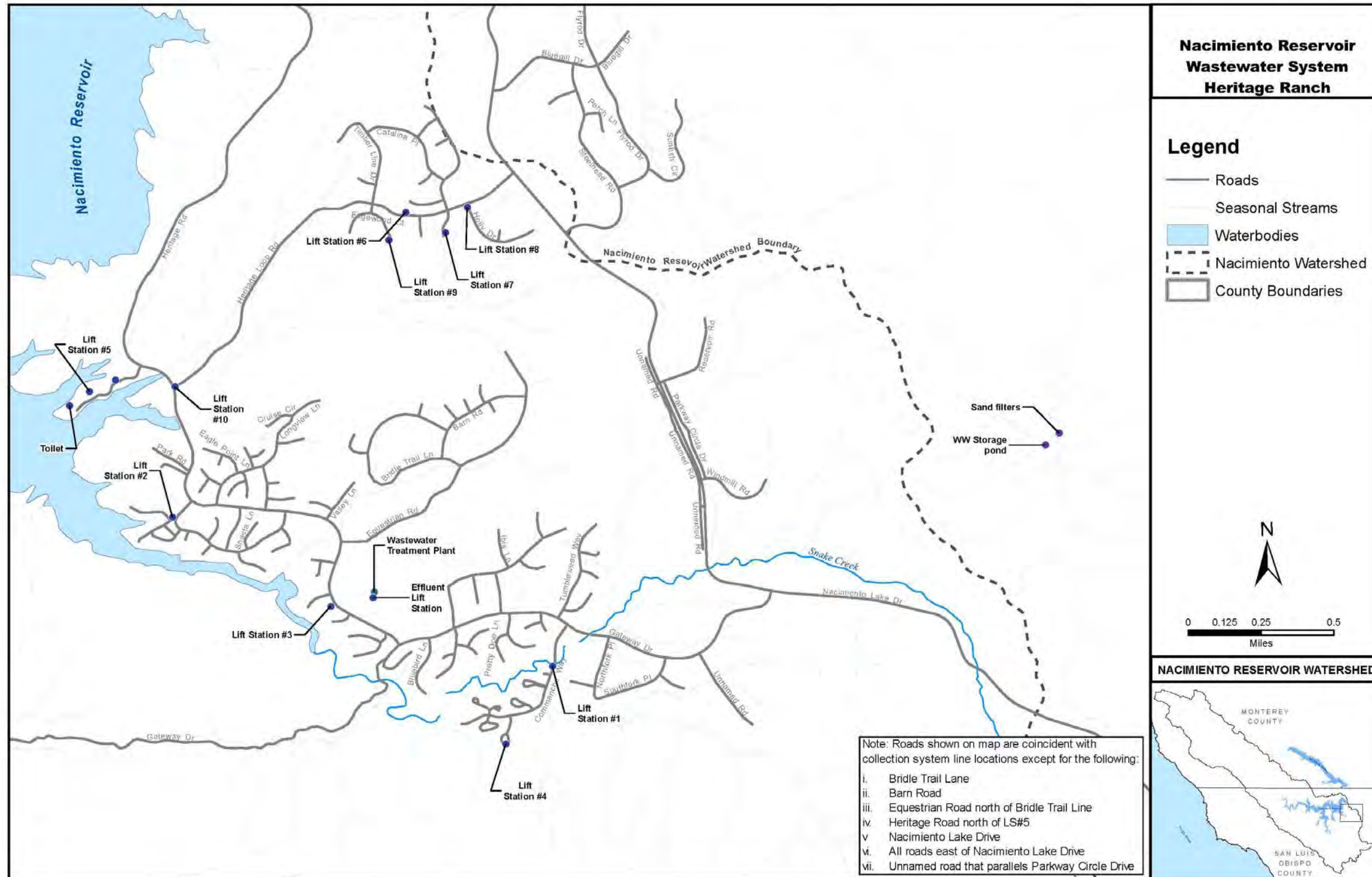


Figure 32: Heritage Ranch Wastewater System

6.6.3 Oak Shores

System operation Oak Shores is served by a community wastewater system that is operated by the San Luis Obispo County Service Area 7A under the provisions of Central Coast Regional Water Quality Control Board Order No. 01-130. The system, built in 1975, currently has 638 service connections. Staffing is provided by the San Luis Obispo County Public Works Department and currently includes one full time certified Grade 2 wastewater treatment operator; backup support is available from three certified Grade 1 operators and all operations are overseen by a certified Grade 2 wastewater treatment operator.

System description Approximately six miles of collection line and six lift stations bring wastewater to the secondary level wastewater treatment plant. Because residential development extends to the HWL, the gravity collection system includes an interceptor line which is buried in the ground below the HWL, including one 60 ft deep lift station (LS #3). All other lift stations are located at least 1,000 ft away from the HWL. The treatment plant is located approximately 1,000 ft horizontally away from and more than 100 ft above the HWL. It has a design capacity of 0.100 MGD; actual average flows from 2005 to 2010 varied from 0.025 MGD in the winter to 0.093 MGD during peak periods. The plant has 24 hour design flow capacity, and was built with dual facilities for redundancy. Although the Oak Shores wastewater system is located near the lake shore, it is almost ten river miles away from the NWP intake structure (Figure 33).

Effluent is pumped nearly two miles to a spray field that is located within the reservoir watershed, over 2,000 ft horizontally away from the HWL, in the upper reaches of the Kavanaugh Creek subwatershed. This area has a capacity of two million gallons. Surface runoff is diverted around the spray fields. When the spray field ponds become saturated during very wet winters, effluent is pumped approximately 1,700 ft downslope to percolation ponds that are located approximately 700 ft horizontally from the HWL.

Spill prevention and control Each lift station has dual pumps. All lift stations are equipped with auto dialer alarms and emergency power hookup for a diesel generator. The alarms have battery backup and utilize an auto dialer to provide 24-hour emergency notification. The smaller wet wells have 8-12 hours of emergency storage and all are constructed to operate using CSA 7A's gasoline powered pumps or a generator. The large interceptor wet well (Lift Station #3) has about three days of storage. A portable backup generator is on site at all times. The interceptor line is inspected visually each year, and an annual dye test is performed as well.

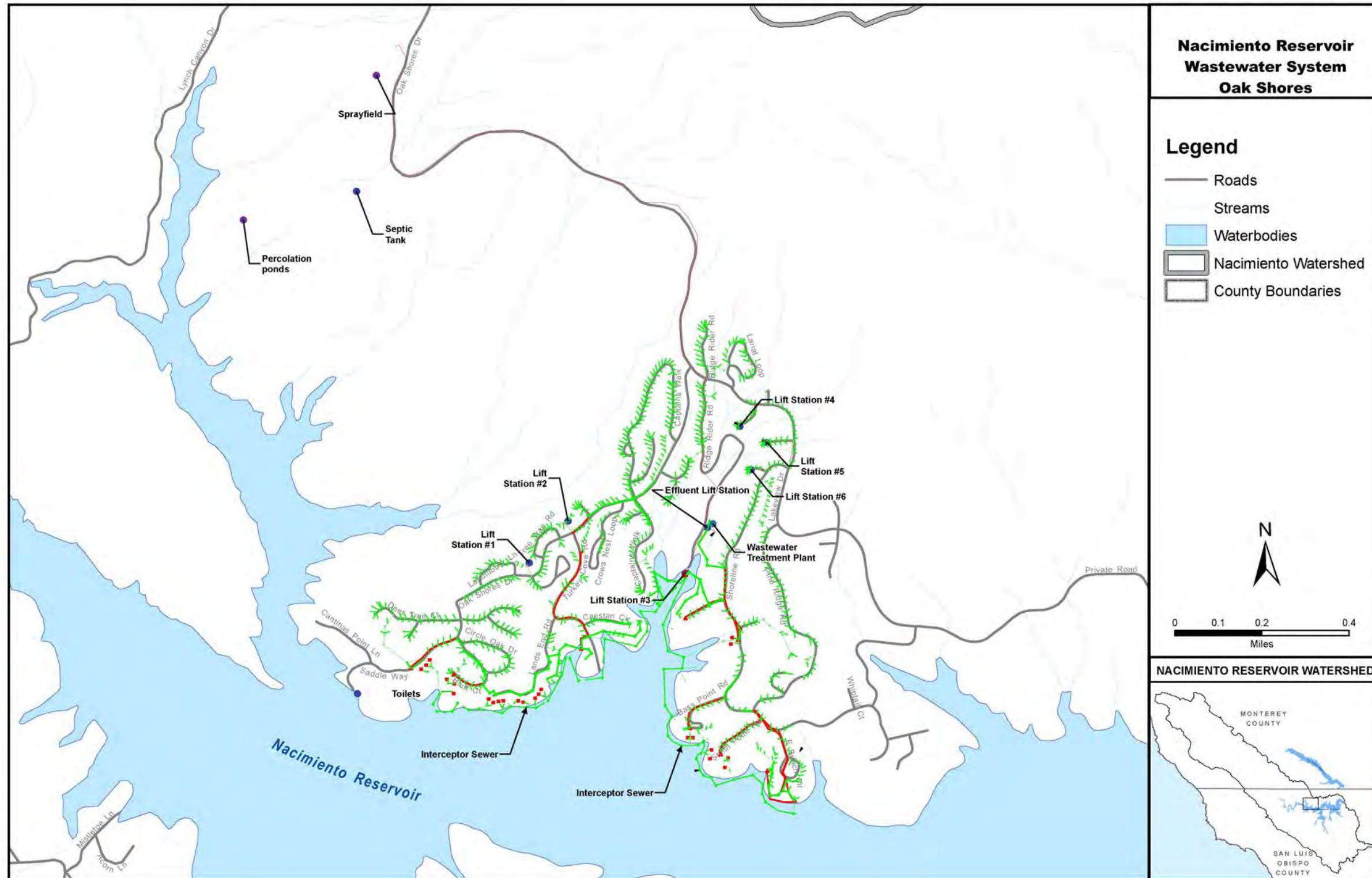


Figure 33: Oak Shores Wastewater System

6.6.4 Northshore S&B

System operation Northshore S&B (known formally as Northshore S&B Inc., and formerly as Northshore Ski & Boat Club) is served by a community septic system that is operated by the association under the provisions of State Water Quality Control Board Order No. 97-10-DWQ. The system, built in 1972, serves 40 members, which includes 16 developed lots (30 are approved), 24 recreational vehicles, and a small community building. Currently three homes are occupied year-round; all others are used seasonally.

System description Wastewater is collected in three 1,500 gallon septic tanks that operate in series, followed by an effluent tank. Effluent is pumped from this tank approximately 700 ft to a leach field that is served by an eight line distribution box. The tanks are located within 100 ft horizontally of the HWL and the leach field is located within 500 ft horizontally of the HWL. System design capacity is 10,000 GPD, with actual flows ranging from 1,500 GPD in the off-season to 5,000 GPD during peak usage. The septic tanks are pumped once per year. Although the facility is located near the HWL, it is approximately six river miles away from the NWP intake structure (Figure 34).

Spill prevention and control The effluent tank has dual pumps and a high level alarm. A backup generator is available on site. Effluent flow is recorded daily and the septic tank/effluent tank area is inspected for overflows at the same time. The leach field distribution box has 16 ports but only eight lines are currently in use; eight more lines can be added should the need arise.



Figure 34: Northshore S&B Wastewater System

6.7 Refuse Disposal

At Lake Nacimiento Resort solid waste is collected by Monterey County Parks Department staff and disposed of outside the watershed (at Paso Robles Landfill). Performing their own solid waste collection allows MCPD to collect refuse as often as needed, which may be more frequent than a typical weekly private service during peak usage periods. Likewise, MCPD has purchased 40 dumpsters for refuse collection which are placed in service as needed, and are stored when not needed. The dumpsters replaced 55 gallon drums which were used by the previous resort operator, and which had limited capacity, were easily tipped over, often raided by raccoons, and not always serviced in a timely manner. Parks staff report a noticeable reduction in litter due to the usage of dumpsters instead of drums, along with the increased service frequency. Additionally, several recycling dumpsters are placed throughout the resort, which are serviced by a private garbage company (San Miguel Garbage).

Heritage Ranch and Oak Shores are residential communities with weekly private home refuse service, provided by San Miguel Garbage Company via a franchise agreement with the HRCSD and the OSCA respectively. Heritage Ranch has dumpsters at the fish cleaning station and campground. Oak Shores has four receptacles (55 gallon drums) at the main launching ramp, two more plus a recycling station at the west ramp, and two at the campground. These receptacles are serviced weekly.

Other communities around the reservoir also have weekly solid waste service provided by a private waste disposal company. Northshore S&B has a 40 yard roll off dumpster for community use, in addition to individual receptacles.

SLO County Code Section 11.20.210, prohibits littering at the reservoir and the resort and also prohibits improper disposal of burning material.

6.8 Equestrian Activities

Lake Nacimiento Resort does not provide equestrian facilities. Should equestrian facilities be developed in the future, this activity would be governed by SLO County Code Section 11.20.210, which stipulates that resort visitors with horses must obtain an equestrian permit from MCPD, and also stipulates that horses must stay on designated equestrian trails. Horses are specifically prohibited from the campground and picnic areas.

Heritage Ranch has an equestrian center with 87 paddocks; the closest of these is nearly 2,000 ft horizontally from the HWL. Equestrian center rules allow horses to be ridden only within the center or on designated trails. Horses are not allowed at the marina, in the campground, or in any of the parks. Equestrian center rules also require horse owners to keep paddocks, sheds, and adjacent areas neat, clean, and sanitary, and specific areas are designated within the center for disposal of soiled bedding and manure. Equestrian center rules may be found on the Heritage Ranch Owners Association website (www.hroa.us).

6.9 Visitor Limitation

There are limited support facilities around Lake Nacimiento for overnight camping and for day use. The residential communities have campgrounds, but they are small and their use is limited to owners and guests. The total attendance allowed at Lake Nacimiento Resort varies; this number is determined by MCPD, taking into account factors such as the reservoir surface elevation and the amount of space available. Resort overflow is directed to Lake San Antonio. Access to the water from boat ramps decreases substantially as reservoir levels recede; this results in a direct limitation on the number of boats as the reservoir surface area diminishes. Generally speaking, as the reservoir surface elevation decreases, so does visitorship.

The Monterey County Parks Department has been compiling boating attendance statistics for the entire reservoir for many years, and camping and day use attendance statistics for Lake Nacimiento Resort since 2009. The average annual number of visitors was calculated using lake-wide boating attendance data since 2002, and also using all available camping and day use attendance data for the resort. These figures do not take all visitors to the reservoir into account, however, data on all visitors is not available. Vessel day-use permits provide a reasonable approximation for lake-wide usage.

The average annual number of visitors per acre-foot of storage capacity was calculated using attendance data along with reservoir thermocline, surface elevation, and surface area data for the corresponding time frames. The calculation was performed per the CDPH *Guidelines for Evaluating Applications for Recreational Use Permits at Domestic Water Supply Reservoirs* (draft, November 2000).

The thermocline depth and thickness varies. Using a relatively conservative value of 30' for the thermocline, the result of the calculation is 1.6 boating visitors per acre-foot of storage capacity, and 1.7 camping and day-use visitors per acre-foot of storage capacity. Both values are below the maximum recommended allowance of 2.1 visitors per acre-foot for a reservoir that allows swimming. Using 40' for the thermocline, the calculated result is only 1.2 boating visitors per acre-foot, and 1.3 camping and day use visitors per acre-foot. See Appendix C for details.

Because the average annual number of visitors per acre-foot of storage that can be calculated using available data is well below the recommended maximum value, a biological risk assessment is not required and was not performed.

6.10 Water Quality Monitoring.

The District has been conducting water quality monitoring for the Nacimiento Water Project since 1993. The monitoring program has been developed to meet project needs - initially to aid in future water treatment plant design and more recently for intake portal selection. The program is not designed to measure the impact of recreational activities on water quality; this will be addressed in the forthcoming watershed sanitary survey.

Samples have been collected monthly since 2002 at various depths at the log boom for total coliforms and *E. coli*, and at various other frequencies before 2002. Samples were also collected at the log boom twice per year from 2002 to 2006 for cysts (*Giardia* and *Cryptosporidium*). Data are presented in Appendix D. Coliform results range from 1 to 77,000 MPN/100 mL, with a median value of 250 MPN/100 mL. *E. coli* results range from <1 to 170 MPN, 100 mL, with a median value of <1 MPN/100 mL. No cysts were detected in the limited sampling that was performed.

Samples have also been collected at the log boom at various frequencies and depths since 1993 for several other constituents, including algae, general minerals, inorganics, physicals, radiological contaminants, volatile organic compounds, and disinfection by-product precursors. A summary of results is presented in Appendix E.

6.11 Reservoir Area Closure

SLO County Code, Section 11.20.260, authorizes the MCPD and SLO County Sheriff's Department to restrict public use of the park, including closure, for sanitary protection of the watershed, fire prevention, construction, dangerous or unsafe conditions, to prevent damage to the park, or for conservation of fish and game.

The San Luis Obispo County Public Health Department does not perform monitoring at Nacimiento Reservoir; water quality data is not collected and evaluated for the purpose of determining the suitability of the reservoir for bathing or other recreational uses.

6.12 Reservoir Patrol

SLO County Code Section 11.20.250 authorizes the Monterey County Parks Department as well as the San Luis Obispo County Sheriff's Department to direct the public in their use of the reservoir and the recreation area according to all applicable statutes, ordinances, and rules and regulations. SLO County Code Section 11.20.270 conveys enforcement authority, including both arrest and citation authority, to all duly sworn peace officers, including uniformed employees of the Monterey County Parks Department and the San Luis Obispo County Sheriff's Department.

Resort The Resort is operated by MCPD; supplemental staffing is provided by a management company under a contract. All staffing levels and duties, including patrols, fluctuate with usage; higher usage, and therefore higher staffing, occurs during the summer season (approximately May through September). MCPD has 4-5 full time rangers on duty year round, and 1-2 additional rangers may be hired for the summer season. One ranger and two maintenance workers live on site. Additional rangers live approximately 17 miles away at Lake San Antonio and are available for 24 hour emergency calls. Rangers have full law enforcement authority, and they patrol the recreation area to ensure visitor compliance with all rules and regulations. Year-round maintenance is provided by 2-3 full time MCPD maintenance staff, and in the summer season up to 15 part-time workers perform light maintenance and janitorial duties, including daily inspection and servicing of all plumbed restrooms, chemical toilets, the RV dump station, the fish cleaning station, garbage cans, and dumpsters. MCPD maintains a contract with a parks management company that provides retail, maintenance, and management support for the resort operations. The management company has 6-7 full-time year-round staff, plus approximately 30 part-time staff in the peak season. Management company staff is trained to assist with emergencies at the direction of MCPD rangers.

Until recently, the San Luis Obispo Sheriff's Department provided full time patrol service at the resort throughout the summer season. Since 2010 this has been reduced to half time as a function of both the increased enforcement authority of MCPD rangers and also budget constraints. SLO County Sheriff's deputies continue to respond as needed to special incidents, however, the nearest substation is 23 miles away (in Templeton), and only a few deputies patrol a large, rural area, so response times can be quite lengthy.

Reservoir During the peak season MCPD rangers typically patrol the lake for at least 8 hours per day Monday through Thursday, and at least 11 hours per day Friday through Sunday. In the last year this has been reduced somewhat due to budget constraints, but normal staffing levels are expected to resume once sufficient funding is again available.

The California Department of Fish and Game (CDFG) conducts regular patrols on the reservoir, making approximately 4 to 8 visits a month from March to June and about 4 visits a month

during the rest of the year. One warden is regularly assigned to the reservoir but additional wardens join in as needed during busy periods. CDFG wardens are authorized to enforce any state laws or county ordinances, but their emphasis is on enforcement of laws related to natural resources, such as fish size and bag limits, environmental enforcement such as excavation and construction activities, pollution and litter laws, fisheries methodology, licensing laws including fishing and hunting, quagga mussel and zebra mussel laws, and certain other special laws.

Dam A MCWRA employee lives at the dam and makes daily inspections of the dam area, including the log boom.

Intake District operations staff work on site at the intake structure at least once per week, and as often as daily. The intake area is inspected for security during these visits.

Heritage Ranch The Heritage Ranch Owner's Association (HROA) has a security officer on patrol daily around the clock, year round, whose primary focus is to ensure compliance with the community's codes, covenants, and restrictions. Additionally HROA has a part time code enforcement officer whose primary focus is to ensure compliance with the community's rules and regulations. Seven maintenance workers provide upkeep throughout the community. Also, a SLO County Fire Department/Cal Fire station is located in Heritage Ranch with five permanent, year round employees, along with an onsite volunteer fire company, and additional paid staff during fire season. This station maintains a fire rescue boat at the community marina.

Oak Shores The Oak Shores Community Association has a code enforcement officer on patrol 16 hours a day and on call 8 hours a day on week days, and on patrol around the clock on weekends. The entrance gate is staffed 12 hours a day in the winter months and 24 hours a day in the summer months. Additionally, five maintenance workers provide upkeep throughout the community. There also is a SLO County Fire Department/Cal Fire station that is staffed seasonally, along with a volunteer fire company. This station also maintains a fire rescue boat at the community marina.

6.13 Emergency Plan

The District has an Emergency Response Plan for the Nacimiento Water Project written in 2010 which describes measures that will be taken to minimize public health risks due to actual or threatened water contamination caused by a natural disaster or other emergency event at Nacimiento Reservoir. It includes procedures for notifying the California Department of Public Health, the SLO County Department of Public Health, and Nacimiento Water Project participants (purveyors), as well as measures for responding to the emergency itself. A copy of the District's Emergency Response Plan was submitted to CDPH with the District's Permit Amendment Application in September 2010.

6.14 Public Health Surveillance

The San Luis Obispo County Public Health Department does not conduct public health surveillance activities at Nacimiento Reservoir. Due to budget constraints and the remote location of the reservoir, it is unlikely that the Public Health Department will provide such surveillance in the foreseeable future.

The majority of the reservoir shoreline is privately owned. A relatively small portion of the Lake is developed for public recreation; this public area is the most intensively used area and is geographically closest to the intake facilities. Pursuant to its domestic water supply permit for the Nacimiento Water Project, the District will conduct monthly inspections of the public recreation area, using the standard form provided by the California Department of Public Health Drinking Water Program District 6 (Appendix F). A copy of each report will be submitted to CDPH as prescribed in the District's water supply permit. Inspections began in May 2011.

Upon completion of the initial watershed sanitary survey, projected for late 2011, monitoring at several locations on the reservoir, ranging from one end to the other and including locations near both the north shore and the south shore, will commence. District staff will make and record observations of conditions on the reservoir during these sample collection events.

If problems are noted during an inspection, the District will attempt to resolve them by informing the responsible party(ies). If the problem remains unresolved then enforcement authorities may be contacted if necessary.

6.15 Public Notification

There is an informal public information network around the reservoir, which includes websites, handouts, newsletters, bulletin boards, and signs. This information network serves both residents and visitors at the reservoir. The District will work with the entities that maintain this network to inform residents and visitors that the reservoir is a drinking water supply and of the need to protect water quality.

6.16 Other

Some communities around the reservoir have implemented additional water quality protection measures beyond those described above. A few of these measures include:

Heritage Ranch Owners Association

- Sponsored a marina cleanup day in 2010
- Plans a community-wide cleanup day in 2011
- Installed barricades to prevent vehicles from driving in unauthorized areas on the shore

Oak Shores Community Association

- Voluntary compliance with SLO County Stormwater Management Program
- Working with Cal Fire to develop and implement a fuel load reduction program

Northshore S&B

- Sponsors two community-wide cleanup days annually (spring and fall)
- Provides a 40 yard roll off dumpster year-round

7 REFERENCES

California Department of Forestry and Fire Protection, San Luis Obispo Unit office staff, 2011, personal communication

California Department of Public Health, 2002, *Drinking Water Source Assessment Summary for Cal Shasta Club*

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8 APPENDICES

Appendix A

San Luis Obispo County Code of Ordinances Title 11 Parks and Recreation Chapter 11.20 Nacimiento Lake

San Luis Obispo County, California, Code of Ordinances >> Title 11 - PARKS AND RECREATION >> Chapter 11.20 - NACIMIENTO LAKE >>

Chapter 11.20 – Nacimiento Lake

Sections:

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- 11.20.260 - Enforcement—Park closure.
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11.20.005 - Preamble and purposes.

This chapter is enacted in order to establish rules and regulations for the safe and peaceful use and enjoyment of Nacimiento Lake, to advance the public health, safety and welfare at the lake, for the protection and preservation of property and natural resources, and for the general safety and welfare of the public. The county of San Luis Obispo and the San Luis Obispo County flood control and water conservation district reserve all rights and interests each may have at Nacimiento Lake, as they exist under any federal, state or local law.

(Ord. No. 3191, § 1, 5-11-10)

11.20.010 - Definitions.

As used in this chapter the following terms shall have the following meanings, unless otherwise apparent from the context that a different meaning is intended:

"Aquaplane" or "aquaplaning" means any aquaplane, plank, surfboard, water ski, wakeboard, or other device used for transportation, conveying or carrying a person who is being towed or pulled by a vessel or other watercraft by means of a rope, chain, cable, wire, or other flexible connection.

"Bicycle" means any device as defined by the California Vehicle Code as a "bicycle," "motor-driven cycle," "motorized bicycle or moped," "motorized quadricycle and motorized tricycle" and/or "motorized scooter."

"Fireworks" means anything defined as "fireworks" in California Health and Safety Code Section 12511, including, but not limited to, "dangerous fireworks" (Health and Safety Code Section 12505), "safe and sane fireworks" (Health and Safety Code Section 12529), but not including auto flares when used for the purpose of warning other vehicles or other Emergency Signaling Devices (Health and Safety Code Section 12506) if they are used for emergency purposes.

"Horse" means any member of the equine family and includes mule and donkey, or other rideable animal.

"Lake" means Nacimiento Lake.

"Log boom" means the continuous floating barrier than spans fully across Nacimiento Lake from the north to the south shores in the vicinity of Nacimiento Dam.

"Monterey County" means the county of Monterey.

"Monterey County parks department" means the Monterey County parks department and its uniformed employees.

"Motorcycle" means that device as defined by the California Vehicle Code.

"Nacimiento Dam" means the dam which forms the Lake.

"Nacimiento Lake" or lake" means the reservoir created by Nacimiento Dam, and lands flooded up to elevation eight hundred twenty-five feet — NGVD29, located in the county of San Luis Obispo.

"Nacimiento recreation area" means that portion of Nacimiento Lake and the land owned or leased by the Monterey County water resources agency and/or the county of Monterey located in San Luis Obispo County.

"Operator" means any concessionaire of the Monterey County parks department contracted to provide services at the Nacimiento recreation area. Authority for the operator shall be limited to that provided in the contract or agreement between Monterey County and the operator.

"Parks director" means the chief ranger or director of the Monterey County parks department or any employee to whom such authority is delegated to by the parks director.

"San Luis Obispo County" means the county of San Luis Obispo.

"San Luis Obispo County flood district" means the San Luis Obispo County flood control and water conservation district as created under Chapter 1294 of the Statutes of 1945.

"Sheriff's department" means safety employees of the San Luis Obispo County sheriff's department.

"Vehicle" means a "motor vehicle" as that device is defined by the California Vehicle Code, including, but not limited to, a "motor truck, motorcycle, tow truck, and/or truck tractor," as those terms are defined in the California Vehicle Code, excepting a device moved solely by human power or as otherwise defined by this chapter as a "bicycle."

"Vehicle Code" means the California Vehicle Code. Whenever any reference is made to any portion of the Vehicle Code or of any other law including, without limitation, the Penal Code and Health and Safety Code, such reference shall apply to all amendments and additions hereafter made to such sections.

"Vessel" includes every description of watercraft used or capable of being used as a means of transportation on water, except the following:

- (1) A seaplane on the water;
- (2) A watercraft specifically designed to operate on a permanently fixed course, the movement of which is restricted to, or guided on, such permanently fixed course by a mechanical device that restricts the watercraft's movement to the fixed course; and
- (3) A floating structure which is designed and built to be used as a stationary waterborne residential dwelling which does not have and is not designed to have a mode of power on its own and is dependent for utilities upon a continuous utility linkage to a source originating on shore and has a permanent, continuous hookup to a shoreside sewage system.

"Vessel trailer" means any trailer or equipment used to transport a vessel and which is placed in the water to launch the vessel.

Words used in the present tense include the future as well as the present. Words used in the masculine gender include the feminine and neuter. The singular number includes the plural and the plural the singular. Section headings, when contained in this chapter shall not be deemed to govern, limit, modify or in any manner affect the scope, meaning or intent of the provisions of any section. "Shall" is mandatory and "may" is permissive.

(Ord. No. 3191, § 1, 5-11-10)

11.20.020 - Penalty for violation.

Every person who violates any of the provisions of this chapter, except for peace officers acting under their scope and authority, and personnel of the San Luis Obispo County District, San Luis Obispo County, and/or Monterey County parks department when in the course of the performance of their official duties, may be deemed guilty of a misdemeanor and upon conviction thereof is punishable by imprisonment in the San Luis Obispo County jail for not more than one year, or by a fine of not more than one thousand dollars, or by both. A peace officer issuing a citation for a violation may at his or her discretion reduce any offense charged under this chapter to an infraction.

(Ord. No. 3191, § 1, 5-11-10)

11.20.030 - Permit and fee schedules.

All permits, certificates, or decals issued by the Monterey County parks department authorizing the use of the Nacimiento recreation area and its facilities, and the fees, if any, for the same, shall be in accordance with schedules adopted, from time to time, by resolution of the Monterey County board of supervisors.

(Ord. No. 3191, § 1, 5-11-10)

11.20.040 - Permit and fee required—Refund.

No person shall enter or use the Nacimiento recreation area without first paying the prescribed fee, if any, to the Monterey County parks department at an established point of entry or collection and receiving an appropriate permit, certificate, or decal unless exempted under this chapter. No person shall, upon leaving the Nacimiento recreation area, refuse to exhibit to the Monterey County parks department, upon its demand, any permit, certificate, or decal which has been issued to him or her. No fee shall be refunded unless refunds have been authorized by resolution of the Monterey County board of supervisors.

(Ord. No. 3191, § 1, 5-11-10)

11.20.050 - Permit and fee—Exemptions.

The following persons are exempt from the permit and fee requirements of this chapter: Officers, employees, agents, and contractors (and employees of the latter) of any governmental entity, while engaged in the performance of their duties; concessionaires of Monterey County and their agents, employees, suppliers, and contractors, while on the business of the concessionaire; employees of public utilities while in the performance of their duties; such other persons as may be designated by resolution of the Monterey County board of supervisors.

(Ord. No. 3191, § 1, 5-11-10)

11.20.060 - Annual vehicle and vessel permits.

- (a) Annual vehicle and vessel permits shall be valid for the calendar year in which issued, terminating on December 31st thereof, unless sooner revoked.
- (b) Annual vehicle permits shall be issued to an individual for noncommercial use by him or her and/or his or her immediate family only.
- (c) Annual vessel permits are issued for a single vessel and may not be transferred to another vessel.
- (d) The annual vessel permit shall be affixed to the outboard side of the vessel approximately midboat on the port side, or on the port side of the vessel windshield, and is not transferable to other vessels owned concurrently by the same or other owners. No person shall move, mutilate, alter, or destroy any annual Vessel permit without the prior consent of the Monterey County parks department.

(Ord. No. 3191, § 1, 5-11-10)

11.20.070 - Permit revocation.

The Monterey County parks department and the San Luis Obispo County sheriff's department are each authorized to revoke any permit, certificate, or decal which has been issued when:

- (1) Such permit, certificate, or decal was issued unlawfully or erroneously; or
- (2) Such personnel has reasonable grounds to believe that the person to whom such permit, certificate, or decal was issued, or any person who enters the Nacimiento recreation area using such permit, certificate, or decal, has violated any provision of this chapter or any applicable local, state, or federal law, rule or regulation. In such cases, the

Monterey County parks department and San Luis Obispo County sheriff's department may expel such persons from the Nacimiento recreation area and cause such vessels to be removed from Nacimiento Lake and the Nacimiento Lake recreation area.

No person who has been ordered expelled from the Nacimiento recreation area shall remain therein. The Monterey County parks department may, in its discretion, refuse to admit to the Nacimiento recreation area any person who or vehicle, vessel, trailer, vessel trailer or other equipment which has been expelled from Nacimiento Lake or the Nacimiento recreation area within the immediately preceding six months.

(Ord. No. 3191, § 1, 5-11-10)

11.20.080 - Shoreline camping and day use limitations.

It is unlawful at any time to picnic or at any time after dark to camp on any land adjacent to the shoreline of Nacimiento Lake, except at areas specifically designated for picnicking or for overnight camping by the owner of such areas and which are also approved for such uses by the San Luis Obispo County planning and building department and the San Luis Obispo County health agency. For the purposes of this section, "after dark" means any time from one-half hour after sunset to one-half hour before sunrise. "Camping" means erecting a tent or shelter or arranging bedding and/or both, or the use of a recreational vehicle for the purpose of, or in such a way as will permit, remaining overnight.

(Ord. No. 3191, § 1, 5-11-10)

11.20.090 - Camping and day use regulations.

- (a) No person shall enter or camp within the Nacimiento recreation area without a valid, unexpired, unrevoked permit for such entrance or day-use. The Monterey County parks department and sheriff's department may, at any time, revoke the camping or day-use permit of any person if the campsite or day-use area occupied by such person is not maintained by him or her in a reasonably clean, sanitary, and attractive manner.
- (b) No person shall camp within the Nacimiento recreation area except within designated camping areas. No person shall enter or remain in any day-use park area after the posted closing time without prior approval of the Monterey County parks department.
- (c) The holder of a camping or day-use permit shall maintain possession of the permit at all times and present it when requested by personnel of the Monterey County parks department or San Luis Obispo County sheriff's department. No person shall move, mutilate, alter, or destroy any campsite marker or permit without the prior consent of the Monterey County parks department.
- (d) Camping permits may be issued so as to expire after a maximum of fifteen consecutive days, and campground occupancy by the same person(s), equipment, or vehicle(s) at any camping facility within the Nacimiento recreation area shall not exceed thirty total days per year, unless otherwise extended at the discretion of the Monterey County parks director or designee. After the first fifteen-day permit has expired, the occupant(s) equipment, and vehicle(s) must vacate the campground for a minimum of two consecutive days before a second permit may be issued. All camping permits expire at the time noted on the permit.
- (e) No person shall, without prior approval of the Monterey County parks department, park more than two vehicles, or one vehicle and one vessel trailer, at any one campsite at the Nacimiento recreation area.
- (f) Quiet shall be observed in all areas of the Nacimiento recreation area between the hours of ten p.m. and seven a.m. No person shall make any loud or boisterous noise of such a nature as to disturb other persons in such areas between said hours.
- (g) No person under the age of eighteen shall camp within the Nacimiento recreation area unless accompanied by an adult.
- (h) No person shall camp below the high water line at the Nacimiento recreation area unless authorized by the Monterey County parks department.

(i) Campsites or day-use areas must be physically occupied at least once every twenty-four hours by the permittee or designee. The Monterey County parks department, the San Luis Obispo County sheriff's department, and/or an operator (if permitted by contract) are authorized to remove from any campsite or day-use area any property which is left in violation of this chapter.

(j) No person shall occupy any day-use area or campsite that is not maintained in a reasonably clean, attractive, safe or sanitary manner. It shall be the responsibility of any person using such an area to notify the Monterey County parks department immediately upon arrival of any deficiencies noted.

(Ord. No. 3191, § 1, 5-11-10)

11.20.100 - Camping prohibited on public property.

No person shall camp within the Nacimiento recreation area between the hours of six p.m. and six a.m. on any:

- (1) Public road; or
- (2) Public property, except when the public property is expressly designated and posted for overnight camping.

(Ord. No. 3191, § 1, 5-11-10)

11.20.110 - Vessel operation in prohibited areas.

It is unlawful for any person within Nacimiento Lake to operate a vessel within a prohibited area designated by official standard waterway markers on the lake. The Monterey County parks department is authorized to designate such prohibited areas, as needed, to protect the safety and property of visitors to Nacimiento Lake. No person shall operate a recreational vessel between the log boom and Nacimiento Dam.

(Ord. No. 3191, § 1, 5-11-10)

11.20.120 - Vessel regulations.

(a) The Monterey County parks department is authorized to establish and designate such restricted boating areas and speed zones at Nacimiento Lake as are reasonably necessary for the safety of persons and property.

(b) The Monterey County parks department is authorized to designate parts of Nacimiento Lake for the exclusive use of such specific classes of vessels and during such specific times as will, in its judgment, best serve the safety, welfare, and/or interests of the boating public.

(c) The Monterey County parks department is authorized to establish and designate health, sanitation and pollution standards for vessels operating at Nacimiento Lake. It shall be unlawful for any person to have, use or operate a vessel or vessel trailer at Nacimiento Lake that does not meet such minimum health, sanitation and/or pollution standards, and that does not have an annual or daily vessel permit and any required local inspection certification, unless otherwise exempted.

(d) The Monterey County parks department, the San Luis Obispo County sheriff's department, and other peace officers with concurrent jurisdiction are authorized to inspect, upon entry to Nacimiento Lake and/or the Nacimiento recreation area, all vessels, vessel trailers and vehicles transporting or towing said vessels, to determine that such vessels, vessel trailers and vehicles are in compliance with this chapter, and all other applicable local, state, and federal rules, laws and regulations, including, without limitation, those pertaining to the health and safety of the visiting public, and the health, safety, and sanitation of Nacimiento Lake and related infrastructure.

(e) The Monterey County parks department, the San Luis Obispo County sheriff's department, and other peace officers with concurrent jurisdiction are authorized to board and inspect or re-inspect any vessel, vessel trailer or vehicle transporting or towing said vessel at Nacimiento Lake and the Nacimiento recreation area, to ensure compliance with this chapter, and all applicable local, state and federal rules, laws, and regulations, including,

without limitation, those laws, rules and regulations relating to invasive species which pose a threat to the waters of Nacimiento Lake and related infrastructure.

(f) If, after a vessel permit and/or any required local inspection certification is issued, a vessel, vessel trailer or vehicle is found to be in violation of this chapter, or any applicable local, state, and/or federal rules, laws, and regulations, including, without limitation, those rules, laws and regulations pertaining to health, safety and/or sanitation, then the Monterey County parks department, the San Luis Obispo County sheriff's department, and other peace officers with concurrent jurisdiction are authorized to revoke, for noncompliance, any annual or daily vessel permit previously issued and may remove said vessel, vessel trailer or vehicle from the waters of Nacimiento Lake and/or the Nacimiento recreation area. Any person who refuses to allow such inspection shall immediately remove his/her vessel, vessel trailer and/or vehicle from the waters of Nacimiento Lake. It shall be unlawful for any person to operate a vessel on Nacimiento Lake when the vessel does not comply with all applicable local, state, and federal laws, rules and or regulations.

(g) Annual vessel permits shall be affixed to the outboard side of the vessel, approximately midvessel on the port side, or on the port side of the vessel windshield, and are not transferable to other vessels owned concurrently by the same or other owners. Daily vessel permits and any required local inspection certification must be carried on a vessel at all times. Vessel permits and any required local inspection certification are for the exclusive noncommercial use of the vessel for which the permit was issued by the Monterey County parks department. No person shall move, mutilate, alter, or destroy any vessel permit without the prior consent of the Monterey County parks department.

(h) Vessels owned or used by the San Luis Obispo County sheriff's department, the Monterey County parks department, governmental agencies, and operators at Nacimiento Lake may not be required to obtain vessel permits or other local inspection certifications, but shall be subject to all other provisions of this chapter.

(i) No person shall place, use, or operate, without a daily or annual vessel permit from the Monterey County parks department, any vessel on Nacimiento Lake which:

(1) Fails to comply with all safety requirements.

(2) Lacks a valid state registration decal, and a valid Monterey County daily or annual vessel permit.

(3) Is not in a clean, safe, and sanitary or seaworthy condition.

(4) Is not, in the judgment of the Monterey County parks department or the San Luis Obispo County sheriff's department, of safe design and construction.

(5) Possesses an operable sink drain or toilet.

(6) Is of such size as to constitute, in the judgment of the Monterey County parks department or the San Luis Obispo County sheriff's department, an unreasonable hazard, in which case it may, in the discretion of said personnel, be confined to certain areas of the lake.

(j) No person shall do any of the following within Nacimiento Lake:

(1) Operate a vessel without a valid and unrevoked annual or daily vessel permit from the Monterey County parks department, or any required local inspection certification.

(2) Operate a vessel within a prohibited area when such area has been so designated by official Monterey County parks department waterway markers.

(3) Operate a vessel in violation of sailing patterns and buoy markings posted or placed by the Monterey County parks department.

(4) Operate a vessel within two hundred fifty feet astern of any trolling fishing vessel.

(5) Operate or occupy any vessel for the purpose of camping while afloat during hours of darkness, without prior approval of the Monterey County parks department.

(6) Keep any vessel on shore within the Nacimiento recreation area overnight, except in areas designated by the Monterey County parks department.

(7) Leave a vessel which is in his or her care, custody and control unattended, at a dock or public launch ramp, on a trailer or afloat, for a period of more than fifteen minutes; or, at any other place while afloat, for a period of more than eight hours, without prior written approval of the Monterey County parks department.

(8) Launch, land, or beach any vessel other than at docks, ramps, or other launching areas designated by the Monterey County parks department.

(9) Launch any vessel that is polluted, infested with invasive aquatic species, or is not seaworthy or sanitary. All vessels must be "clean, drained, and dry" in order to receive an annual and/or daily vessel permit and any required

local inspection certification to operate on Nacimiento Lake. Any vessel trailer coming into contact with Nacimiento Lake shall be free of all invasive aquatic species.

(10) Operate any vessel bilge pump causing a discharge of material into the lake, except in an emergency.

(11) Allow waste from vessel washing to discharge into the lake, any stream within or onto any shore or bank thereof, except at such places as may be designated by the Monterey County parks department.

(12) Engage in any vessel race, regatta, tournament, or exhibition, or operate a vessel for hire, or engage in sales promotion activities of any kind, rent or deliver a rental vessel, without first obtaining the prior written consent of the Monterey County parks department.

(13) Use a vessel in a reckless or negligent manner so as to endanger the life, limb, or property of any person.

(14) Operate any vessel contrary to the lawful directions given by the Monterey County parks department or the San Luis Obispo County sheriff's department.

(k) Any vessel which has been left unattended in violation of any provision of this chapter may be towed to a suitable storage area by the Monterey County parks department and/or the San Luis Obispo County sheriff's department, at the expense of the owner or other person responsible for such vessel. The charges made by the Monterey County parks department for such towing and storage shall be those established by the Monterey County parks director, and Monterey County shall have a possessory special lien on such vessel until such charges are paid. Such lien may be foreclosed in the manner provided by law which may include, without limitation, selling the vessel at a public auction. From the proceeds of such sale, the cost of impounding and auction may first be deducted and retained.

(l) No person shall leave, abandon or store any vessel within the Nacimiento recreation area or on the waters of Nacimiento Lake that is not in a safely operable condition. It is the owner of record's responsibility to immediately remove any vessel that the Monterey County parks department determines to be in violation of this section. In the event the owner cannot be contacted, or is not able to immediately remove the Vessel from the Nacimiento recreation area and/or Nacimiento Lake, the Monterey County parks department and/or the San Luis Obispo County sheriff's department may take action to remove the vessel and charge the owner for all such costs of removal and an administrative fee of twenty percent.

(Ord. No. 3191, § 1, 5-11-10)

11.20.130 - Vessel speed limits—Posted zones.

It is unlawful for any person to operate a vessel on Nacimiento Lake in a prohibited, restricted or special speed zone at speeds in excess of that posted by official Monterey County parks department waterway markers. In addition, the following specific speed restrictions shall apply:

(1) Within two hundred feet of any vessel landing dock, ramp, log boom, or regular beaching area: Five nautical miles per hour or in such a manner as to create a wake.

(2) Within one hundred feet of any vessel that is not under way: Five nautical miles per hour, or in such a manner as to create a wake.

The provisions of Harbors and Navigation Code Section 655.2 shall also apply. The San Luis Obispo County board of supervisors has designated, by resolution, restricted speed zones for Nacimiento Lake. A copy of the resolution is kept on file in the county of San Luis Obispo office of the clerk-recorder and in the office of the San Luis Obispo County sheriff's department. No person shall violate any speed zone so designated provided; however, the speed zone is posted by official standard waterway markers. In addition to the areas which the San Luis Obispo County board of supervisors have designated as restricted speed zones, the Monterey County parks department is authorized to designate additional restricted speed zones, as needed, as well as closed and restricted areas, which may include relocating buoys to provide the necessary safety zone, in order to protect the safety and property of visitors to Nacimiento Lake. Such designations shall be posted by official standard waterway markers.

(Ord. No. 3191, § 1, 5-11-10)

11.20.140 - Motor vehicle operation regulations.

No person shall do any of the following within the Nacimiento recreation area:

- (1) Drive a vehicle at a speed greater than five miles per hour in a picnic area, campground, or parking lot, or at a speed greater than fifteen miles per hour in any other area, unless a different maximum speed, not more than thirty-five miles per hour, has been established by the Monterey County parks department and signs have been erected giving notice thereof.
- (2) Drive a vehicle on other than established vehicular roads, trails, parking areas or vessel launching areas.
- (3) Drive a vehicle unless he or she then holds a valid driver's license issued to him or her by this state, another state, or foreign jurisdiction of which he or she is a resident.
- (4) Drive a vehicle which has not been licensed by the motor vehicle licensing authority of California, another state, or a foreign jurisdiction.
- (5) Drive any vehicle in willful or wanton disregard for the safety of person or property.
- (6) Drive a motorcycle which is not equipped with an effective spark arrester and muffler and otherwise in full compliance with the California Vehicle Code imposed equipment installation requirements on motorcycles.

(Ord. No. 3191, § 1, 5-11-10)

11.20.150 - Motor vehicle parking regulations.

The following may be cited as parking infractions at the discretion of the peace officer issuing such a citation:

- (1) Park any vehicle within the Nacimiento recreation area without displaying a valid day-use or camping permit issued by the Monterey County parks department for camping or day use;
- (2) Park or leave unattended any vehicle, trailer, or vessel trailer in other than a single parking stall or area designated by the Monterey County parks department for such parking; or on any vessel launching ramp or so near thereto as to hinder or impede the drivers of other vehicles;
- (3) Park or leave unattended any vehicle, trailer, or vessel trailer so as to block or restrict the free flow of traffic on an established dirt or paved road; or
- (4) Park or leave unattended any vehicle, trailer, or vessel trailer for more than fourteen days unless a valid long-term parking permit for such parking is affixed on the vehicle in a location readily seen by a peace officer.

The Monterey County parks department and the San Luis Obispo County sheriff's department each are authorized to move or remove any vehicle, trailer, or vessel trailer which has been illegally parked or left unattended in violation of this chapter.

(Ord. No. 3191, § 1, 5-11-10)

11.20.160 - Bicycle regulations.

No person shall do any of the following within the Nacimiento recreation area:

- (1) Ride, use, or be in possession of a bicycle on any trail not authorized for such use by the Monterey County parks department.
- (2) Ride, use, or be in possession of a bicycle without having identification in his or her possession.
- (3) Ride a bicycle on any authorized dirt trail without wearing a protective helmet that is certified by ANSI, SNELL, or both.
- (4) Ride a bicycle or animal in willful or wanton disregard for the safety of persons or property.

(Ord. No. 3191, § 1, 5-11-10)

11.20.170 - Pets.

- (a) The Monterey County parks department may refuse to admit into the Nacimiento recreation area any person who proposes to enter with a dog, unless such person can exhibit either a current license or a certificate of rabies inoculation of the dog. Upon presentation of either such license or such certificate, the Monterey County parks department may register such dog and collect a fee for its admission.
- (b) The Monterey County parks department may refuse to issue a camping permit when it appears that there will be more than two dogs per campsite.
- (c) The Monterey County parks department may refuse to admit into the Nacimiento recreation area any person who possesses:
- (1) A pet that appears to be dangerous;
 - (2) More than two pets per vehicle; or
 - (3) A pet which, in the judgment of the Monterey County parks department, is likely to disturb other persons.
- (d) No person shall do any of the following within the Nacimiento recreation area:
- (1) Allow any dog or other pet in his or her custody to run unrestrained or upon a secure leash over seven feet long, except in the case of an authorized service dog.
 - (2) Allow any dog or other pet to be upon any beach, trail, or other public assembly area posted to the contrary by the Monterey County parks department.
 - (3) Allow any dog or other pet in his or her custody to molest or annoy any person.
 - (4) Allow any dog or other pet in his or her custody to be or remain tied up and left unattended outside of a tent, trailer, or vehicle in a camp area or day-use area.
 - (5) Abandon any animal in his or her custody.
 - (6) Allow any livestock under their ownership or care to enter the Nacimiento recreation area without the written permission of the Monterey County parks department. Such owners shall be responsible for cost recovery for all damage done to the Nacimiento recreation area property and environment.
- (e) The Monterey County parks department is authorized within the Nacimiento recreation area to impound animals or pets involved in any violation of the provisions of this section and to charge the custodian of said animal or pet a reasonable fee or fees for the release of the animal or pet. Such fee or fees are established by the Monterey County parks department.

(Ord. No. 3191, § 1, 5-11-10)

11.20.180 - Firearms and other weapons.

- (a) No person shall, within the Nacimiento recreation area, possess, use, or discharge any firearm, pellet gun, bow and arrow, crossbow, slingshot, or missile launching device, except for:
- (1) A peace officer; or
 - (2) A person, other than a peace officer, who is employed by, or in the service of, a governmental agency which authorizes him or her to carry or use any of said weapons or devices in the performance of his or her official duty and who is on official duty.
- (b) If an archery range is established by Monterey County at Nacimiento Lake, it is lawful to possess, use, or discharge a bow and arrow or crossbow thereon during such times as it is open for public use, and it is lawful to transport such archery equipment between the archery range and the entrance of the Nacimiento recreation area.
- (c) The Monterey County parks department is authorized to establish and post notices of the times when the range may be open or closed to public use.

(Ord. No. 3191, § 1, 5-11-10)

11.20.190 - Sign posting—Structure and buoy construction.

It is unlawful for any person other than the Monterey County parks department and the San Luis Obispo County sheriff's department to post or erect any sign, set or maintain any buoy or to construct any temporary or permanent structure within the Nacimiento recreation area without the prior written permission of the Monterey County parks department and/or the Monterey County water resources agency. The Monterey County parks department and/or Monterey County water resources agency may remove and dispose of any such signs and structures and recover all costs from the person(s) who placed the signs and structures including a twenty percent administrative fee.

(Ord. No. 3191, § 1, 5-11-10)

11.20.200 - Urinate or defecate in public.

It is unlawful for any person over the age of ten years to intentionally urinate, defecate or otherwise discard or dispose of human waste or excretion in a public place other than in a toilet receptacle or urinal provided for such purpose within the structure of any restroom, bathroom, or similar enclosure, or in a place open to public view, or upon the private property of another without the consent of the owner.

(Ord. No. 3191, § 1, 5-11-10)

11.20.210 - Miscellaneous prohibited acts.

No person shall do any of the following at Nacimiento Lake and the Nacimiento recreation area:

- (1) Throw, dump, or deposit upon the surface of the ground, except in containers placed by the Monterey County parks department, any trash, refuse, garbage, litter, or waste material.
- (2) Bring a vehicle, trash, refuse, garbage, litter, or waste material to Nacimiento recreation area for the purpose of dumping.
- (3) Throw, dump, or deposit into the waters of Nacimiento Lake, or upon the shore or banks of Nacimiento Lake, any trash, refuse, garbage, litter, waste material, petroleum or other chemical product.
- (4) Throw or deposit any burning substance into or onto any combustible place or area, except into an authorized fire pit or incinerator.
- (5) Build, kindle or use fire, except in a camping or picnicking area in a fire pit, stove, incinerator, or other similar facility provided by, or approved by, the Monterey County parks department.
- (6) Leave unattended any fire kindled by him or her.
- (7) Smoke in any area of the Nacimiento recreation area which the Monterey County parks department has determined to be a nonsmoking area, provided signs are in place giving notice of the restricted area.
- (8) Hunt, kill, injure, or molest any animal or bird, or allow any child or animal in his or her care and custody to do so.
- (9) Operate any noise-producing equipment, whether or not electrically amplified, which is likely to disturb other people, except in accordance with the terms and conditions of a permit issued by the Monterey County parks department.
- (10) Sell or advertise any product or service, rent or deliver for rental any vehicle or vessel in any area of the Nacimiento recreation area or carry on any other commercial activity; or distribute any handbill, tract, or other literature, without authorization by the Monterey County parks director.
- (11) Perform or participate in any political rally or meeting, religious service or function, or any fund raising activity, without prior approval of the Monterey County board of supervisors; for the purposes of this section a wedding service or reception shall not be considered a religious service or function, provided however a permit for a wedding service or reception shall be obtained in advance from the Monterey County parks director.
- (12) Bring or allow a horse to enter into the Nacimiento recreation area without first obtaining a valid equestrian permit from the Monterey County parks department.

- (13) Allow any horse which is permitted to be at Nacimiento Lake to be in any camping or picnicking area thereof, or in any part of the Nacimiento recreation area outside of established equestrian trails or designated equestrian areas.
- (14) Cut, pick, mutilate, remove, or destroy any vegetation, or grade, disturb or remove soil or rock or natural material, except as authorized by the Monterey County parks department.
- (15) Clean fish, except at such places as are designated by the Monterey County parks department.
- (16) Fish off public docks or commercial marinas within the Nacimiento recreation area. Fish within a distance of three hundred feet from a point where fish have been planted within a period of twenty-four hours after such plant. The Monterey County parks department shall post such areas with appropriate and visible "no fishing" signs at the time of plant, and such signs shall remain in place during the period fishing in such area is prohibited.
- (17) Possess or use live bait, or bring or receive any fish, amphibian animal, or aquatic plant for the purpose of propagation or use as fish bait, without the approval of the Monterey County parks department and the California Department of Fish and Game.
- (18) Enter any area of public property when signs have been erected forbidding such entry.
- (19) Enter any fenced utility area, or remove, destroy, or tamper with any valve, switch, or control of any telephone, electrical, water, or sewer line or system owned or operated by any public entity or public utility.
- (20) Commit any act of vandalism, including, but not limited to, removing fixtures or equipment, or destroying, painting, marking, tagging, or defacing any building, sign, fixture, or other equipment.
- (21) Engage in any riotous, boisterous, threatening, or indecent conduct, or use profane or indecent language, or operate a radio, noise producing device or musical instrument in such a manner as is likely to disturb other persons.
- (22) Willfully fail or refuse to comply with any lawful order, signal, or direction of any authorized safety employee of the Monterey County parks department employee or San Luis Obispo County sheriff's department.
- (23) Engage in scuba or free diving without prior written permission from the Monterey County parks department.
- (24) Operate or cause to operate any generator in an area designated as a no generator area by the Monterey County parks department or during posted no generator hours.
- (25) Engage in any activity that is reasonably likely to cause injury or death of the participant or any other person or damage property.

(Ord. No. 3191, § 1, 5-11-10)

11.20.220 - Fireworks prohibited.

No person shall use, discharge, or possess for the purpose of sale, use or discharge any fireworks or other explosives within the Nacimiento recreation area. Excluded from the prohibition of fireworks under this chapter are the following types of fireworks if written approval is first secured from the responsible fire jurisdiction:

- (1) Agricultural and wildlife fireworks (as defined in Health and Safety Code Section 12503).
- (2) Emergency signaling devices when used for non-emergency purposes (Health and Safety Code Section 12506).
- (3) Exempt fireworks (Health and Safety Code Section 12508).
- (4) Model rocket engines (Health and Safety [Code] Section 12520).
- (5) Special effects (Health and Safety Code Section 12532).

(Ord. No. 3191, § 1, 5-11-10)

11.20.230 - Swimming regulations.

It is unlawful for any person within the Nacimiento recreation area to do any of the following:

- (1) To swim or float farther than one hundred feet from the shoreline except while on an aquaplane and except at designated areas signed for swimming.
- (2) To swim within three hundred feet of public docks or commercial marinas.

(3) To engage in swimming, rafting or other water contact activity between the log boom and Nacimiento Dam.

(Ord. No. 3191, § 1, 5-11-10)

11.20.240 - Aerial activities.

It is unlawful for any person to land, take-off, or use any seaplane, aircraft, or any other device capable of carrying a person in the air, including, without limitation, a hang glider, hot air balloon, and paraglider, except in an emergency, or when authorized in writing and in advance by the Monterey County parks department, or as may be otherwise permitted by the Monterey County parks department in specially designated areas.

(Ord. No. 3191, § 1, 5-11-10)

11.20.250 - Enforcement—Power to direct public.

The Monterey County parks department and San Luis Obispo County sheriff's department each are authorized to direct the visiting public in their use of the lake and all facilities within the Nacimiento recreation area according to applicable statutes, ordinances and rules and regulations. In the event of fire, flood, earthquake, or other natural catastrophe or emergency, or to expedite traffic, ensure safety of the public, or to prevent pollution of Nacimiento Lake, the Monterey County parks department and San Luis Obispo County sheriff's department may each direct the public as conditions may require notwithstanding the provisions of this chapter. If written rules and regulations are established by the Monterey County parks department for the good order, health and safety of the people and waters of Nacimiento recreation area, such rules and regulations, once promulgated shall be complied with by all users of Nacimiento Lake.

(Ord. No. 3191, § 1, 5-11-10)

11.20.260 - Enforcement—Park closure.

(a) The Monterey County parks department and San Luis Obispo County sheriff's department each are authorized to close to public use the Nacimiento recreation area, or portion thereof, or any lake or stream within Nacimiento Lake, or restrict the times when the same shall be open to such use, or limit or prohibit boating, fishing, or other recreational uses thereof, whenever, in its judgment, it deems it prudent to take any of said actions in order to safeguard the health or safety of the public or the health and/or safety of the Nacimiento recreation area, its waters, or any of its facilities.

(b) Good cause to take any of the actions outlined in this section shall include, but not be limited to, the following: unreasonable fire hazard; dangerous weather or water conditions; sanitary protection of a watershed; construction or repairs; conservation of fish and game; excessive vessel traffic; unsafe or unsuitable shoreline, ramp, parking, or road conditions; the prevention of damage to the Nacimiento recreation area, its waters, or any of its facilities; or any dangerous, unsafe, or unhealthful condition.

(Ord. No. 3191, § 1, 5-11-10)

11.20.270 - Enforcement—Arrest and citation authority.

(a) Pursuant to the authority vested in the San Luis Obispo County board of supervisors pursuant to Section 5380 of the Public Resources Code, all persons duly appointed as peace officers including, but not limited to, uniformed employees of the Monterey County parks department and the San Luis Obispo County sheriff's department, are empowered to enforce the provisions of this chapter. Pursuant to Section 836.5 of the Penal Code, the Monterey

County parks director, uniformed Monterey County parks department employees, and safety employees of the San Luis Obispo County sheriff's department are authorized to arrest a person without a warrant whenever the Monterey County parks director, uniformed Monterey County parks department employees, or safety employees of the San Luis Obispo County sheriff's department have reasonable cause to believe that the person to be arrested has committed a misdemeanor in his or her presence that is a violation of any statute, law, or ordinance that he/she has the duty to enforce.

(b) In any case in which a person is arrested for a misdemeanor pursuant to this section, and the person arrested does not demand to be taken before a magistrate, the public officer or employee making the arrest shall prepare a written notice to appear and release the person on his or her promise to appear, as prescribed by Chapter 5C (commencing with Section 853.6), Title 3, Part 2 of the Penal Code. Notwithstanding, nothing in this chapter shall be construed as prohibiting an officer from taking a person before a magistrate instead of being released, in accordance with Penal Code Section 853.6(i). The provision of that chapter shall thereafter apply with reference to any proceeding based upon the issuance of a notice to appear pursuant to this chapter.

(Ord. No. 3191, § 1, 5-11-10)

11.20.280 - Delegation of powers by San Luis Obispo County board of supervisors.

Powers granted to Monterey County parks department, the San Luis Obispo County sheriff's department and other uniformed personnel under this chapter shall be construed to be powers delegated by the San Luis Obispo County board of supervisors for the purpose of issuing citations at Nacimiento Lake in accordance with Section 853.6, Title 3, Part 2 of Penal Code (and pursuant to Public Resources Code Section 5380), for misdemeanor violations of the laws of this state or this chapter, maintaining the peace, protecting the property of visitors, and general enforcement of the ordinances of the San Luis Obispo County. The San Luis Obispo County board of supervisors, in enacting this chapter, does not waive any authority or rights that the county of San Luis Obispo and/or the San Luis Obispo County flood district may otherwise have under the law within the Nacimiento recreation area and Nacimiento Lake.

(Ord. No. 3191, § 1, 5-11-10)

11.20.290 - Fees.

(a) Nacimiento Lake Schedule of Fees. A schedule of fees will be established by Monterey County for the use of the Nacimiento recreation area. These fees will be approved and adopted by the Monterey County board of supervisors by resolution. The schedule may include, without limitation, day use fees, campsites (regular), campsites (hookup — electric and water), campsites (full utility), motorcycle, group picnic areas, extra vehicles accompanying campers, dogs, youth group camping, firewood sales, disposal site fees for non-registered campers, for each sewage dump, group reservations, group camping, vessels (annual and daily), bicycles, reservation fees, vessels (inspection), and photography permits.

(b) General Provisions.

(1) Annual day-use vehicle permits may not be valid when a special event fee is being charged.

(2) The Monterey County park director is authorized to approve limited term special discount programs and to reduce and/or waive fees for facilities used for promotional purposes.

(3) A penalty fee may be established and collected for nonpayment of day-use, camping, and boating fees.

(4) A fee for use of facilities during non-operating hours at the Nacimiento recreation area, based upon the hourly cost of employees along with associated benefits, may be charged if supervision is required.

(c) Daily Fees for use of the Nacimiento Recreation Area for Commercial Activities. Monterey County has or will establish fees for use of the Nacimiento recreation area and/or Nacimiento Lake for the purposes of:

(1) Feature motion picture; or

(2) Television series pilots, productions, specials, television shorts, or advertisements.

(d) Special Conditions.

(1) The fee for any size production involving pyrotechnic or high-speed stunts for any site/time not generally available for filming shall be the maximum for each activity.

(2) A damage deposit equal to not less than fifty percent of the first full day's fee or a minimum of five hundred dollars, whichever is greater.

(e) Concession Agreement or Special Event Permit Fees.

(1) For special events sponsored by the Monterey County parks department, or for events coordinated by the Monterey County parks department with less than five thousand participants, the Monterey County parks director is authorized to approve admissions, concessions and other related fees for each specific event.

(2) User fees not less than the current user fees approved for the Nacimiento recreation area shall apply. This includes day-use, camping, boating, and other miscellaneous fees as listed on the current Monterey County parks department fee schedule. The Monterey County parks director may waive user fees in the event that there is a special event or concession agreement fee for which a percentage of the gross receipts is to be paid to Monterey County and which includes the day-use fee.

(3) Registration fees will be established proportional to the number of anticipated participants in the special event. The Monterey County parks department will collect the registration fee in advance and such fees are not refundable.

(4) Permittee shall pay to Monterey County a minimum of seven percent of the gross receipts for the sale of food, beverages, and merchandise items, and a minimum of five percent of the gross receipts for admission tickets or for revenue received for services rendered. The Monterey County parks director is authorized to negotiate above this minimum when it is in Monterey County's best interest depending on the situation and the event.

(5) In the event that the Monterey County parks department incurs excess costs for the operation of the Nacimiento recreation area as a result of a special event, these costs shall be allocated to permittee. Such costs shall include, without limitation, directing traffic and parking, providing security, providing trash disposal services or utilization of Monterey County equipment in support of permittee activities. Monterey County will charge for labor, materials, and equipment rental rates as currently established by the Monterey County department of public works.

(6) If the anticipated percentage of gross receipts which Monterey County will receive from the special event exceeds two thousand dollars, permittee may be required to deposit a cash bond with Monterey County.

(7) A damage deposit may be charged proportionate to the number of anticipated participants in the special event. It may be included in the amount of the cash bond described above. Upon completion of the event, all or any unused portion of the damage deposit will be refunded to permittee after final cost out of the special event.

(Ord. No. 3191, § 1, 5-11-10)

FOOTNOTE(S):

⁽¹²⁾ **Editor's note**— Ord. No. 3191, § 1, adopted May 11, 2010, in effect repealed the former Chapter 11.20, §§ 11.20.010—11.20.740, and enacted a new Chapter 11.20 as set out herein. The former Chapter 11.20 pertained to the Nacimiento recreation area and derived from Ord. No. 1650, 1976; Ord. No. 2121, 1983; Ord. No. 2274, 1986 and Ord. No. 2292, 1987. ([Back](#))

Appendix B

San Luis Obispo County Code of Ordinances Title 22 Land use Chapter 22.102 Nacimiento Planning Area

San Luis Obispo County, California, Code of Ordinances >> Title 22 - LAND USE >> Article 9 - Community Planning Standards >> Chapter 22.102 - NACIMIENTO PLANNING AREA >>

Chapter 22.102 Nacimiento Planning Area

Sections:

22.102.010 - Purpose and applicability.

22.102.020 - Areawide standards.

22.102.030 - Rural area standards.

22.102.040 - Heritage Ranch village area standards.

22.102.050 - Lake Nacimiento resort.

22.102.060 - Oak Shores village area standards.

22.102.070 - South Shore.

22.102.010 - Purpose and applicability.

This chapter provides standards for proposed development and new land uses that are specific to the Nacimiento planning area defined by the Land Use Element. These standards apply to proposed development and new land uses as provided by Section 22.90.020 (Applicability), and are organized according to the specific areas and/or land use categories within the planning area to which they apply.

(Ord. 2982 § 1 (part), 2002)

22.102.020 - Areawide standards.

The following standards apply in the Nacimiento planning area, where applicable.

A. Finished Floor Elevations. Within the Lake Nacimiento watershed, the first floor of a building used for habitation shall not be constructed below the eight hundred twenty-five-foot elevation.

B. Water Treatment. Where use of lake water is authorized by the county, the treatment of lake water shall include storage, coagulation, sedimentation, filtration, and chlorination. Intake systems shall be protected to prevent contamination either by means of a closed zone or other approved method. The systems shall be designed by a registered civil engineer and approved by the county health department.

C. Sewage Disposal.

1. Individual Sewage Disposal Systems. Individual sewage disposal systems are not permitted:

a. On lots with an area less than two and one-half acres per dwelling unit, except where a parcel is located within a cluster subdivision in compliance with Section 22.22.140 with a maximum density of two and one-half acres or more per dwelling unit;

b. Below an elevation of eight hundred twenty-five feet MSL;

c. In any case closer than two hundred feet, horizontal projection, from the lake's high water elevation of eight hundred feet;

d. On slopes of thirty percent or greater; or

e. Where percolation rates are less than one inch in thirty minutes.

2. Substandard sewage disposal systems. Substandard sewage disposal systems that do not meet the requirements of the building code or the regional water quality control board shall be replaced in conjunction with any new development.

D. Easterly of the Santa Lucia Range. The following standards apply only to the area east of the Santa Lucia Range corresponding to the pre-1990 boundaries of the Nacimiento Planning Area as shown in Figure 102-1.

1. Open Space Preservation. Approval of an application for land division, Site Plan, minor use permit, or use permit is contingent upon the applicant executing an agreement with the county to maintain portions of the site not intended for development in open space use. Guarantees of open space preservation may be in the form of agreements, easements, contracts or other appropriate instrument, provided that such guarantees are not to grant public access unless desired by the property owner.

2. RV Parks—Location Criteria. Proposed recreational vehicle parks should be located within one mile of a road improved to county standards.

3. Public Recreation. Future public campgrounds or picnic areas shall be designed and located in compliance with the densities and location specified in Figure 3-1 and Table C (Chapter 3) of the Nacimiento Area Plan.

4. Sloping Sites. Use permit proposals for sites with varied terrain shall include design provisions for concentrating developments on moderate slopes, retaining steeper slopes that are visible from public roads undeveloped where practical except that outside of the pre-1990 planning area boundaries as shown in Figure 102-1, steeper slopes that are visible from public roads shall be kept undeveloped.

E. Utility Services—Undergrounding with Use Permit Projects. All projects requiring use permit approval (including commercial and residential uses fronting the shoreline) shall provide for utilities being placed underground unless the commission determines either that: the proposed development will be of low intensity or in an isolated location; or that supporting overhead utilities will not be visible from public roads; or that overriding operational, economic or site conditions of the project warrant waiver of this requirement.

F. Site Selection Criteria. New development shall be located to not be visible from Highway 1, as follows:

1. Sites shall be selected where hills and slopes would shield development, unless no alternative location exists or the new development provides visitor-serving facilities; and

2. New development shall be located so that no portion extends above the highest horizon line of ridgelines as seen from Highway 1.

G. Sensitive Resource Area (SRA). Projects requiring use permit approval within the SRA combining designation shall concentrate proposed uses in the least sensitive portions of properties. Native vegetation shall be retained as much as possible.

H. Commercial Retail (CR). The following standards apply within the Commercial Retail land use category.

1. Bee Rock—Area of Use. Future development, expansion or alteration of the Bee Rock store shall not exceed one acre in total area.

a. Minor use permit approval is required for all allowable uses.

b. Access to the site shall be from Bee Rock Road.

c. Curbs and gutters are not required but ingress and egress shall be defined by landscaping or barricades.

2. North Entrance to Oak Shores. The following standards apply only to the approximately three-acre portion of Assessor's Parcel Number 80-021-42 located on the west side of Oak Shores Drive adjacent to its intersection with Lynch Canyon Drive at the north entrance to the Oak Shores community as shown in Figure 102-2.

a. Limitation on Use. Land uses shall be limited to convenience and liquor stores, gas stations, general retail, grocery stores, and offices (real estate offices only), in compliance with the land use permit requirements of Section 22.06.030.

b. Permit Requirement. Minor use permit approval is required for new development, unless use permit approval would otherwise be required by this Title for a particular use. The review authority shall adopt conditions of approval that provide for the preservation of trees to the maximum extent feasible.

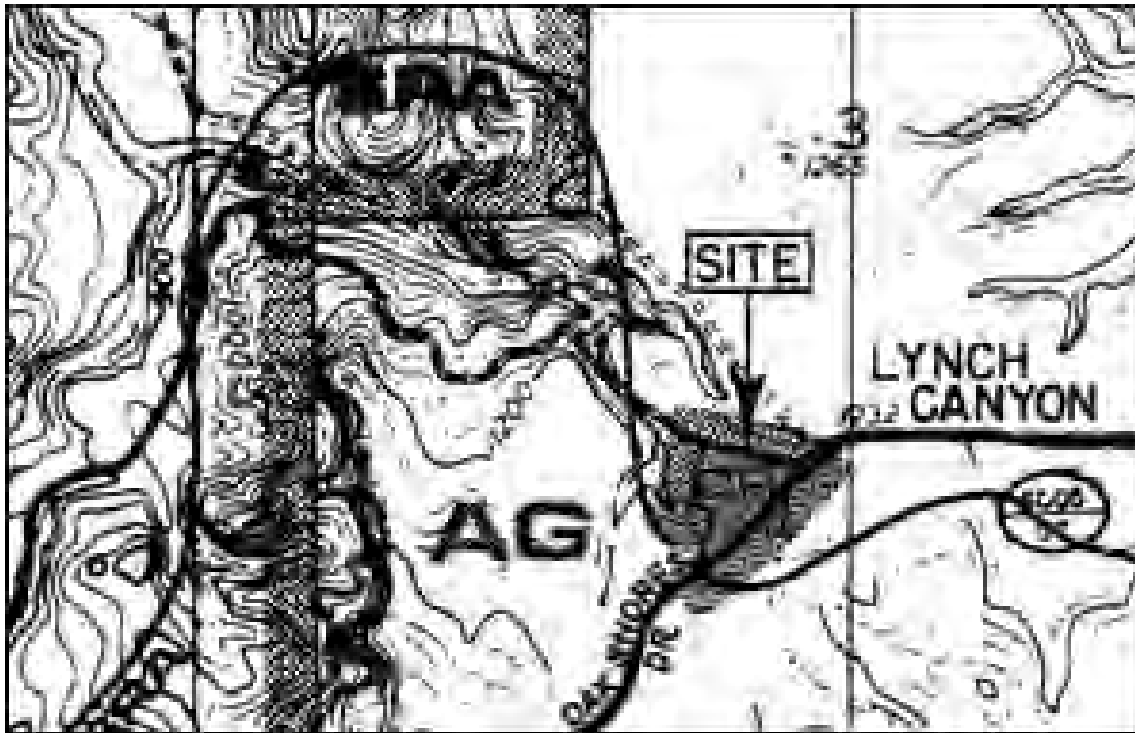


Figure 102-2—CR Land Use Category at North Entrance to Oak Shores

I. Recreation (REC)—Limitation on Use—Bee Rock. Within the Recreation land use category at Bee Rock (Sections 13, 23 and 24 in T25S, R9E, and Section 18 in T25S, R10E), all uses identified by Section 22.06.030 as allowable, permitted, or conditional within the RR land use category may be authorized subject to the land use permit requirements of that section, except multi-family dwellings, all uses listed by Table 2-2, Section 22.06.030 in the Retail Trade use group, financial services, health care services, personal services, storage yards and sales lots, hotels and motels.

J. Residential Rural (RR)—Limitation on Use. All land uses identified by Section 22.06.030 as allowable, permitted, or conditional uses within the RR land use category may be authorized in compliance with the land use permit requirements of that section, except nursing and personal care.

K. Rural Lands (RL)—Limitation on Use. All land uses identified by Section 22.06.030 as allowable, permitted, or conditional uses within the RL land use category may be authorized in compliance with the land use permit requirements of that section, except correctional institutions.

(Ord. 2982 § 1 (part), 2002)

22.102.040 - Heritage Ranch village area standards.

The following standards apply within the Heritage Ranch village reserve line, specifically to the Heritage Ranch project.

A. Communitywide Standards. The following standards apply within the Heritage Ranch project, regardless of the applicable land use category.

1. Permit Requirement—Previous Approvals. Within Heritage Ranch and Lake Nacimiento Resort, any changes to previously approved conditional use permits or development plans require use permit approval.

2. Specific Plan. The Land Use Element, Nacimiento Area Plan and this chapter serve as the Specific Plan for development of Heritage Ranch in compliance with Government Code Sections 66450 et seq. and 66474.5 et seq.
3. Limitation on Residential Units. The total number of residential units (including existing RV sites) allowed at Heritage Ranch shall be two thousand nine hundred.
4. Phasing Plan. Residential development shall proceed according to the phasing plan and schedule shown in Figure 102-3 as revised by General Plan amendment G840625:1, and in compliance with the conditions of approval of development plan D810313:2.
5. Circulation Standards. Applications for proposed development and new land uses within the Heritage Ranch project shall include provisions for the following.
 - a. Providing the county with irrevocable offers of dedication and construct all streets and roads. Collector streets shall be maintained by the Heritage Ranch Homeowner's Association until such time as they are accepted for public maintenance. Local streets shall be maintained by Heritage Ranch Homeowner's Association or considered for maintenance under a zone of benefit within the applicable governmental jurisdiction.
 - b. Connecting the trails in the Heritage Village area to the main trail system around Lake Nacimiento when implemented.
 - c. Constructing the segment of Heritage Road between the Heritage marina campground and the northern condominium site prior to completion of any development north of the campground.

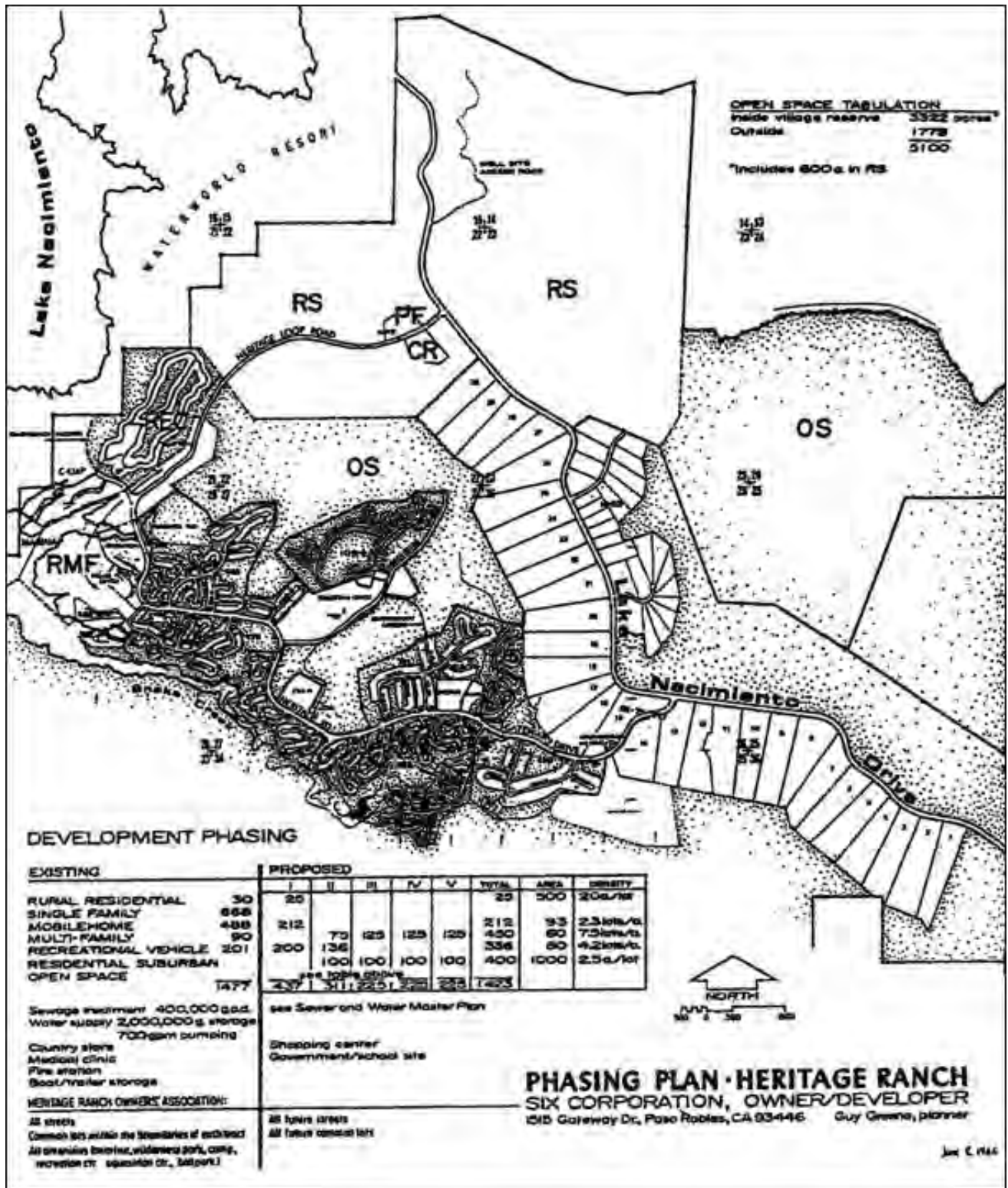


Figure 102-3—Heritage Ranch Phasing Plan

d. Development, subdivision or construction which generates additional traffic contributing to a proportional share of the cost to fund road improvements necessary to mitigate traffic impacts to Lake Nacimiento Drive, either as part of discretionary approvals or upon adoption of an ordinance establishing road improvement fees.

7. Water Resources. Water for development shall be supplied through negotiated contracts with the San Luis Obispo County Flood Control and Water Conservation District for purchase of Lake Nacimiento water.

8. Water Consumption. As each new phase of development is proposed, the applicable land use permit or land division application shall include a tabulation of existing water use within the total project and an estimate of the amount of water needed to supply the proposed new development. This data shall be reviewed and approved by the county public works and planning and building departments prior to approval of the development application.

9. Water Resource Monitoring. The applicant shall submit figures showing the total amount of water being used in the project to the county public works and planning and building departments for evaluation as part of the annual review of the General Plan.

10. Site Planning and Development Standards. Proposed development shall be designed and constructed in compliance with the following standards.

a. Snake and Dip Creeks. Retain Snake and Dip Creeks in their natural state, except for stock ponds and low intensity recreational uses such as trails and picnic areas.

b. Vegetation Protection. Site new development to avoid areas of dense brush and oak woodland vegetation.

c. Slopes. Site new development to avoid areas with slopes exceeding thirty percent.

d. Use Limitation. No mobilehome, recreational vehicle, tent or other temporary living quarters shall be located on any lot not specifically authorized for such use.

e. Setback. Provide a minimum open space setback of five hundred feet from the centerline of Lake Nacimiento Drive for all development parcels, fences, and primary and accessory structures.

f. Tree Protection. Restrict removal of trees which measure more than eight inches in diameter at four feet above existing grade to proposed road right-of-ways, parking areas, and building pads, except where authorized by an approved zoning clearance, minor use permit, use permit, or Tree Removal permit.

g. Tree Removal Permits. Tree removal permits shall be reviewed by the Architectural and Environmental Control Committee for the Heritage Ranch development prior to issuance by the department.

h. Parking. Provide a minimum of two parking spaces, one of which shall be covered, for each new residential unit in a new development.

i. Previous Use Permits. Design proposed development in compliance with any applicable conditions of approval of previously approved conditional use permits or use permits.

11. Subdivision Standards. The following standards apply to all new land divisions.

a. Limitation on Further Subdivision. Further division of existing parcels created by Tracts 424, 446, 447, 452, 466, 474 and 475 is prohibited.

b. Deed Restrictions for Slopes. New land divisions shall provide deed restrictions on building sites to limit building to areas with slopes less than thirty percent.

c. Clustering Requirement. New land divisions shall be designed in compliance with the cluster division provisions of Section 22.22.140.

d. Fire Hydrants. Fire hydrants shall be provided by the developer at locations approved by the California Department of Forestry between development clusters.

e. Common Ownership Lots. All lots designated as common ownership lots within any subdivision shall be placed in trust with an approved title company for conveyance to the Heritage Ranch Property Owner's Association by grant deed. These lands and facilities shall be conveyed to the association, and shall be offered for dedication to the county for acceptance and administration by County Service Area No. 19 in the event that the property owner's association does not fulfill the commitments set forth in its articles of incorporation and bylaws.

f. Required Open Space. New land divisions shall maintain an open space area of five thousand one hundred acres including contiguous areas of the ranch outside and adjacent to the village reserve line. Compliance with the required open space area and its configuration shall be reviewed with each application, which shall include a tabulation and map of open space area that complies with this standard.

g. Parking. New land divisions shall provide additional boat trailer parking as determined to be needed for current demand and the proposed subdivision, to be located at the Heritage Ranch Owners Association site. Additional off-street guest and RV parking spaces shall be provided as determined to be needed within each subdivision.

13. Height Limitations. Two-story structures are allowed in Tracts 452 and 474 only on the following lots:

- a. Tract 452: Lots 21-38, 49-55, 58-66, 91-97, 115-118, 140-143, 150-154, 159-199, 207-230, 225-260, and 273.
- b. Tract 474. Lots 1-45.

14. Building Permits. No grading or building permit shall be issued until the applicant has filed with the department certification that the Architectural and Environmental Control Committee for Heritage Ranch as it then exists and functions, has:

- a. Reviewed pertinent plans and specifications and any applicable zoning clearance, site plan review, minor use permit, or use permit; and
- b. Approved or disapproved the plans and specifications. If the Architectural and Environmental Control Committee has disapproved the plans and specifications, the certification shall set forth the reasons for disapproval. The review authority shall review the reasons for disapproval of the plans and specifications by the committee. The review authority is not bound by any decision of the committee, and may grant permits and approvals in compliance with these provisions.

B. Commercial Retail (CR). The following standards apply within the CR land use category.

1. Limitation on Use. All land uses identified by Section 22.06.030 as allowable, permitted, or conditional uses within the CR land use category may be authorized in compliance with the land use permit requirements of that section, except: auto, mobilehome and vehicle dealers (supplies sales allowed); outdoor sports and recreation; and multi-family dwellings.
2. Sign Standards. Signs shall be located on building facades at consistent locations rather than on roofs, and shall be integrated into the architecture of the building.

C. Open Space (OS). The following standards apply within the OS land use category.

1. Limitation on Use. Land uses shall be limited to: a single shooting range, equestrian facilities and incidental camping, hiking and riding trails, picnic areas; grazing and other agricultural uses; public utility facilities; communication facilities; and pipelines and transmission lines, in compliance with the land use permit requirements of Section 22.06.030.
2. Limitation on Use—Open Space Lots. Use of the open space lots in Tracts 424, 446, 447, 452, 466, 474, and 475 shall be limited to hiking and riding trails, and approved facilities for recreational, drainage, and utility purposes. These lots shall be retained in permanent open space. Open space lots in future subdivisions shall be subject to this limitation on use.

D. Recreation (REC). The following standards apply within the REC land use category.

1. Limitation on Use. Land uses shall be limited to the following in the areas shown, in compliance with the land use permit requirements of Section 22.06.030.
 - a. Within the recreational vehicle subdivisions, recreational vehicles and appurtenant uses subject to subsection D.2.
 - b. Within the marina/launch ramp area, marinas, boat access areas, vehicle storage and outdoor sports and recreation.
 - c. A guest ranch with a public restaurant, organizational camps, outdoor sports and recreation, rural recreation and camping.
 - d. Within the recreational vehicle storage complex, vehicle storage.
 - e. Within the recreational centers, public assembly and outdoor sports and recreation.
 - f. The equestrian center, wilderness, family, and ball parks—outdoor sports and recreation.
2. Site Development Standards—New RV Lots. New applications for recreational vehicle subdivisions are subject to the following standards.
 - a. A comprehensive grading, drainage and landscaping plan shall be submitted with the application, providing a minimum of one thousand two hundred fifty square feet of reasonably flat area per lot.
 - b. The tentative tract map shall include CC&Rs that require use of a consistent design and appropriate maintenance on all on-site storage structures.
 - c. Each new RV lot shall have a minimum area of two thousand five hundred square feet.
3. Boat Trailer Parking. Prior to recordation of a final map for a recreational vehicle subdivision, or under a bonding agreement, additional area for boat trailer parking shall be provided as close to the marina as possible. If authorized by the Heritage Ranch Owners Association (HROA), the site shall be located upon land owned by or to be deeded to HROA sufficient to serve the needs of Heritage Ranch residents and guests when it is built out to two thousand nine hundred units. This parking facility/or facilities shall be constructed as required by the county based upon current demand and the proposed number of units to be developed. If this parking area consumes camping sites now used by

the Heritage Ranch Owners Association, the developer shall replace such sites with equivalent land from another area near the subject property and develop them with equivalent water supply, sanitary and other facilities.

E. Residential Multi-Family (RMF)—Limitation on Use. Land uses shall be limited to multi-family dwellings, residential accessory uses, and home occupations, in compliance with the land use permit requirements of Section 22.06.030.

F. Residential Rural (RR). The following standards apply within the RR land use category.

1. Limitation on Use. Land uses shall be limited to single-family dwellings, residential accessory uses, home occupations, animal keeping and agricultural uses, in compliance with the land use permit requirements of Section 22.06.030.

2. Limitation on Land Division. Lots existing on the effective date of the Land Use Element shall be maintained at their present size without further land divisions.

3. Minimum Parcel Size. The minimum parcel size for new land divisions is twenty acres.

4. Setbacks. All new structures shall be set back a minimum of five hundred feet from the centerline of Lake Nacimiento Drive.

5. Sales Complex. Use of the sales complex shall be terminated on July 16, 1982 unless the commission extends the required date for removal. Conversion of the complex to any other use shall be authorized through use permit approval. If the complex shall be converted to residential use, it will be included in the maximum allowable four thousand units.

G. Residential Single-Family (RSF). The following standards apply within the RSF land use category.

1. Limitation on Use—Single-Family Dwellings. Land uses in Tracts 424, 446, 452 and 474 shall be limited to single-family dwellings, residential accessory uses, and home occupations, in compliance with the land use permit requirements of Section 22.06.030.

2. Limitation on Use—Mobilehomes. Land uses in Tract 475 shall be limited to mobilehomes, residential accessory uses, and home occupations in compliance with the land use permit requirements of Section 22.06.030.

3. Subdivision Design. Proposed subdivisions shall provide open space areas, with uses limited to agricultural uses, hiking and riding trails and facilities for drainage, parking, and utilities.

H. Residential Suburban (RS). The following standards apply within the RS land use category.

1. Subdivision Design. New subdivisions shall be designed to provide for continuous looped hiking and riding trail circulation within open space lots and street alignments.

2. Subdivision Fencing. New applications shall include a plan and specifications for uniform lot perimeter fencing. The responsibility for the construction of the fencing shall be incorporated into the CC&Rs. This fencing shall be maintained under responsibility of the owner associations through CC&Rs.

3. Limitation on Use—Open Space Lots. Use of the open space lots in new land divisions shall be limited to agricultural uses, biking and riding trails, and approved facilities for recreation, drainage and utility purposes. These lots shall be retained in permanent open space use.

4. Open Space Retention. New land division and development applications shall provide for retention sixty percent of the total acreage in the RS land use category in open space.

5. Soils Reports. New land division and use permit applications shall include a soils report on the feasibility of on-site sewage disposal systems, if these systems are proposed.

(Ord. 2982 § 1 (part), 2002)

22.102.050 - Lake Nacimiento resort.

The following standards apply within the Heritage village reserve line, to all land use categories within the Lake Nacimiento Resort project.

A. Specific Plan Included by Reference. The 1976 Lake Nacimiento Resort Specific Plan is hereby incorporated into this Title as though it were fully set forth here. All development within the Lake Nacimiento Resort shall be in conformity with the adopted Specific Plan. In the event of any conflict between the provisions of this chapter and the Specific Plan, this chapter shall control. Any deviation of existing or proposed development from the provisions of the Specific Plan shall occur only after appropriate amendment of the Specific Plan.

B. Limitation on Use. All land uses identified by Section 22.06.030 as allowable, permitted, or conditional uses within the applicable land use categories may be authorized in compliance with the land use permit requirements of that section, except sports assembly, and public assembly and entertainment.

C. Permit Requirement. Any changes to previously approved conditional use permits or development plans require use permit approval. Use permit approval is required prior to any new construction. Subsequent projects consistent with the approved use permit are subject to the permit requirements of Section 22.06.030.

D. Resort Entrance. Resort entrance facilities shall be expanded to eliminate traffic congestion on the entry road and at the entry on Lake Nacimiento Drive prior to approval of any additional use permits.

E. Sewage Treatment. The previously approved sewage treatment plant shall be constructed in accordance with the Specific Plan prior to approval of any additional use permits.

F. Circulation. All roads with Lake Nacimiento Resort shall be improved and maintained by the developer.

(Ord. 2982 § 1 (part), 2002)

22.102.060 - Oak Shores village area standards.

The following standards apply within the Oak Shores village reserve line, to the land use categories and specific areas listed.

A. Communitywide Standards. The following standards apply within Oak Shores, in all land use categories, as applicable.

1. Specific Plan. The Land Use Element, Nacimiento area plan, and this chapter serve as the Specific Plan for the development of Oak Shores in compliance with Government Code Sections 66450 et seq. and 66474.5 et seq.

2. Limitation on Residential Units. The maximum allowable number of dwelling units within the Oak Shores village reserve line shall be one thousand seven hundred eighty-six, including RV sites and all tracts existing and recorded as of the effective date of the Land Use Element. See Figure 102-4 for the allocation of units. The number of allowed units is further allocated to individual properties by the adopted Oak Shores Phasing Plan.



Figure 102-4—Dwelling Unit Allocations for Oak Shores Neighborhoods

3. Permit Requirement—Previous Approvals. Any changes to previously approved conditional use permits shall require use permit approval.

4. Consistency with Phasing Plan. Subdivision and land use permit applications for projects within the village area shall not be approved unless they are consistent with the Oak Shores Phasing Plan, as approved or amended in compliance with the use permit process (Section 22.62.060).
 5. Residential Development Prior to Approval of Phasing Plan. In land use categories allowing the construction of residences, no more than four residences shall be constructed on any building site prior to approval of the village phasing plan required by subsection A.4 above, subject to zoning clearance.
 6. Circulation Standards. All streets shall be built to county standards and offered for dedication. Ownership and maintenance of collector streets shall remain the responsibility of area residents until the county accepts the offer of dedication and assumes maintenance responsibility. If local streets are to be potentially maintained, funding of maintenance shall be considered under a zone of benefit within the applicable governmental jurisdiction.
 7. Water Resources. Water for development shall be supplied through negotiated contracts with the San Luis Obispo County Flood Control and Water Conservation District for purchase of Lake Nacimiento water.
 8. Water Consumption. As each new phase of development is proposed the applications to be included in a tabulation of existing water use within the total project and an estimate of the amount of water needed to supply the proposed new development. This data shall be reviewed and approved by the county public works and planning and building departments prior to approval of the development application.
 9. Water Resource Monitoring. The applicant shall submit figures showing the total amount of water being used in the project to the county public works and planning and building departments for evaluation as part of the annual review of the General Plan.
 10. Site Development Standards. The following site design criteria apply to all development.
 - a. Tree and Vegetation Removal. Only trees and other vegetation that are located in proposed road rights-of-way, parking areas, and building sites may be removed. No other trees or vegetation shall be removed unless required by Section 4105 of the California Public Resources Code for fire protection, or the enhancement of the natural environment by means of pruning and thinning native vegetation. All free standing trees and the outline of all groves of trees and clumps of shrubs shall be clearly indicated on proposed use permits. Aerial photos may be used as the basis for defining these areas on plans.
 - b. Landscape Plans. Landscape plans are required of all developments. Such plans and proposed plant species shall be reviewed for their enhancement of the area and their compatibility with the environment and native vegetation. Plant species shall also be reviewed for potential fire hazard. Plans for fences, walls, and other minor structures, including signs, indicating the location, area, height, elevations, and material shall be submitted with the landscape plans for review and approval.
 - c. Architecture. The architectural character of all structures shall be rustic western ranch styling reflecting a rustic or wood-like character. All styles will reflect a design appropriate to resort area living. A rustic western ranch theme is required of all public recreation and commercial uses.
 11. Architectural and Design Controls. The following standards apply to all lots in the existing subdivisions, Tracts 378, 379, 380 and 381:
 - a. Construction of any building or structure must be fully completed within eighteen months once the foundation is erected. No residence shall be occupied until the exterior is completely enclosed. No structure, permanent or mobile, on a lot shall be lived in during construction of a residence without prior approval of the Tract Committee and the county.
 - b. Only one residence of eight hundred square feet minimum shall be constructed on each residential lot. Any structure on posts must have a minimum of sixty percent solid area surface covered to grade. No fencing wall or hedging will exceed seven feet in height, nor will any landscaping be placed to obstruct or diminish views. No white or shiny roofing materials will be used; fire resistant materials are encouraged.
- B. Commercial Retail (CR)—Limitation on Use.** Land uses shall be limited to the following, in compliance with the land use permit requirements of Section 22.06.030 (Allowable Land Uses and Permit Requirements).
1. West (tennis) neighborhood—Convenience and liquor stores, gas stations, general retail, grocery stores, and personal services.
 2. East (equestrian) neighborhood—Convenience and liquor stores, gas stations, and grocery stores.
- C. Open Space (OS).** The following standards apply within the OS land use category.
1. Limitation on Use. Land uses within areas designated for open space shall be limited to riding and hiking trails, and utilities, in compliance with the land use permit requirements of Section 22.06.030.

2. Open Space Administration. All areas shown as open space within the village reserve line (excluding lands owned by the Bureau of Land Management, Monterey County Flood Control and Water Conservation District, or other comparable agency) shall be retained as open space.

D. Public Facilities (PF)—Permit Requirement. Minor use permit approval shall be required for all uses proposed on the area of Lot 3, Tract 1293 near Lakeview Drive within the PF land use category, unless use permit approval is otherwise required by this Title.

E. Recreation (REC). The following standards apply within the REC land use category.

1. Limitation on Use. All allowable uses may be permitted in compliance with the land use permit requirements of Section 22.06.030 except for the following, which are not permitted in the areas noted:

- a. Equestrian Center. RV parks, airfields, vehicle storage and service stations.
- b. The Marinas. Off-road vehicle courses, hotels, motels and vehicle storage.
- c. Recreation Centers and Parks. Convenience and liquor stores, general retail, grocery stores, personal services, off-road vehicle courses, hotels and motels, RV parks, or any transportation use.
- d. Campground and Storage Yard. Allowable uses are limited to recreational vehicle campground; RV, boat and vehicle storage yard with accessory storage structures; caretaker residence; and fuel sales. Access to these uses shall be limited to the existing road.

2. Cal Shasta Property (APN 80-062-04). The development potential for this property shall be transferred into the residential clusters. The property shall then be retained in open space, with its preservation being guaranteed by agreement, easement, contract or other appropriate instrument.

3. Design, Development and Maintenance. Recreational facilities shall reflect ranch-type design characteristics and be of a rustic, wood-like nature. Facilities shall be built by the developer and operated and maintained by the Oak Shores Homeowner's Association (or other comparable entity).

F. Residential Single-Family (RSF). The following standards apply within the RSF land use category.

1. Limitation on Use. Land uses shall be limited to single-family dwellings, residential accessory uses, home occupations, and religious facilities, in compliance with the land use permit requirements of Section 22.06.030.

2. Subdivision Design. The following standards apply to new subdivisions proposed in the east and west neighborhoods outside Tracts 378 through 381.

- a. Slope Limitations. Site new land divisions and development in areas with a slope of less than thirty percent, unless parcels having an average slope steeper than thirty percent would have unobtrusive visual impact as seen from public streets, the lake and surrounding development and minimal site disruption for access and impact on adjacent properties.
 - b. View Orientation. New residential lots shall be sited so primary views from the parcels are oriented to existing or proposed undeveloped areas (including Lake Nacimiento).
 - c. Street Layout. On slopes greater than twenty percent, street systems shall be designed to avoid multiple rows of streets tiered on the hillside.
 - d. Protection of Native Vegetation. New parcels and development shall be sited where possible to avoid areas of dense brush and oak woodland vegetation, and locate building sites along ridges or hilltops where development would not be silhouetted against the sky, as seen from existing and proposed collector and arterial streets.
 - e. Fire Hydrants. Fire hydrants shall be provided by the developer at locations between development clusters as approved by the California Department of Forestry.
 - f. Open Space Areas. Provide open space areas within and adjacent to subdivisions, with uses limited to hiking and riding trails, agricultural uses and facilities for drainage, access parking and utility purposes.
 - g. Setback Requirements. Maintain a setback of at least one hundred feet from the right-of-way of Oak Shores Drive, from the northerly village reserve line to where the road enters the existing central neighborhood.
 - h. Access Corridors. New subdivisions shall provide access corridors to open space areas through or at the edge of clustered lots. Improved trail systems shall also be provided to and through open space areas that provide visual amenities and link residential and public areas. Maintenance shall be the responsibility of the Owners' Association.
 - i. Design Review. On lots where a proposed structure may be visible uphill from other structures or from the lakefront, the tract architectural review committee shall review the proposed building to ensure that building design and landscape buffering adequately screen and minimize its appearance as seen from below.
3. Density. Residential development shall not exceed a net density of six units per acre.
4. Development Standards—Specific Tracts. The following standards apply only to Tracts 378, 379, 380 and 381.

a. All residences shall have a minimum floor area of eight hundred square feet of enclosed living area, excluding sun porches, patios, garages or carports. Yard setbacks shall be as prescribed on the recorded subdivision maps.

b. The siting and construction of proposed building foundations shall be reviewed and approved by the building official on the following lots:

Tract 378

Lots 14, 15, 18-22, 26, 28, 29, 40, 41-45, 61-63, 66-70, 76, 126-128.

Tract 379

Lots 1-3, 5, 6, 11-16, 34, 35, 38-40, 70-77, 97-105, 111-116, 123, 124, 130, 133-164, 172, 175-181, 183-185, 187-210.

Tract 380

Lots 1-10, 12-37, 49, 51, 60, 63, 64, 71-79, 89, 90, 94, 95, 108-119, 129-113, 137, 138, 141-143, 169-172, 175-179, 181-184, 186-192, 195, 200-206.

Tract 381

Lots 1, 2, 11, 12, 20-31, 33, 37-47, 51-60, 63, 64, 72, 76-89, 91-110, 112, 113, 121, 126-136, 152-166, 170-176, 178-187, 190, 192-210, 225, 227-232, 244, 252-261, 267-287, 291-294.

5. Building Permits—Tracts 378, 379, 380 and 381. No grading or building permit shall be issued until the applicant has filed with the department certification that the Tract Committee for the Oak Shores Subdivision as it then exists and functions, has:

a. Reviewed pertinent plans and specifications and any applicable zoning clearance, minor use permit or use permit; and

b. Approved or disapproved such plans and specifications.

If the Tract Committee has disapproved the plans and specifications, the certification shall set forth the reasons for disapproval. The review authority shall review the reasons for disapproval of the plans and specifications by the committee. The review authority is not bound by any decision of the committee, and may grant permits and approvals under these provisions.

6. Road Impact Mitigation Payment. Prior to the issuance of building permits for lots in Tracts 1291, 1293 and 1294, the remaining one-third payment for G-14 road impact mitigation shall be paid to the county public works department.

7. Site Plan Requirement. No grading or construction permit shall be issued for building sites on Lot 2 of Tract 1293 until the following conditions are met:

a. For the eastern-most building site, a minor use permit shall be required for the primary residence and any accessory structures. The minor use permit shall propose locating the residence and any accessory structures such that oak tree removal and visual impacts from the development are minimized. A secondary dwelling constructed concurrently with, or after, construction of the primary dwelling and meeting the standards set forth in Section 22.30.470 is not subject to the minor use permit requirement.

b. For the western-most building site, a report by a registered Engineering Geologist and a Registered Professional Engineer with expertise in soils engineering shall be reviewed and approved by the public works department, certifying that the site is, or can be made to be geological stable.

(Ord. 3097 § 2, 2006; Ord. 2982 § 1 (part), 2002)

22.102.070 - South Shore.

The following standards apply within the South Shore area of Lake Nacimiento as shown in Figure 102-5, to the land use categories and specific areas listed.

A. Areawide standards.

1. Applicability. The standards of this subsection apply to all lands within the South Shore area as applicable, regardless of the land use category applicable to any particular site.

2. Road Access for New Subdivisions. Land divisions proposing parcels of less than eighty acres or densities exceeding eighty acres per unit shall not be approved unless the access road between the property and the nearest

county-maintained road satisfies—at minimum—the access standards of the Uniform Fire Code as adopted by the county, or will be improved as a condition of the land division to satisfy those standards.

B. Open Space (OS). The following standards apply within the OS land use category.

1. Limitation on Use and Permit Requirement. Land uses shall be limited to crop production and grazing, fisheries, hunting, riding and hiking trails, in compliance with the land use permit requirements of Section 22.06.030.

Primitive trail-side camps, walk-in picnic areas, and picnic areas accessible by boat may be allowed subject to use permit approval. Clearing and grading shall be minimal.

2. Public Lands. Public lands shall be retained in public ownership with a minimum parcel size of six hundred forty acres.

C. Recreation (REC). The following standards apply within the REC land use category.

1. Limitation on Use. Land uses shall be limited to crop production and grazing, marinas, rural recreation and camping, recycling collection stations, animal keeping, single-family dwellings, mobilehomes, and fisheries and game preserves, in compliance with the land use permit requirements of Section 22.06.030.

2. Application Content—Development Plans. Where use permits are required for residential projects and all uses under the definitions of hotels and motels, RV parks, religious facilities, and rural recreation and camping, the use permit application shall include documentation of the adequacy of water, sewerage, drainage, fire and police services.

3. Campground Standards. Public campgrounds and picnic areas shall comply with the following requirements.

a. Permit Requirement. Campgrounds shall require use permit approval.

b. Site Design Standards. Proposed campgrounds and alterations to existing campgrounds shall be designed in compliance with the following standards.

(1) Proposed facilities shall be planned for average rather than peak use, for more efficient year-round utilization.

(2) Trailer sites shall be concentrated in small clusters at a density of ten units per acre, with intervening open space.

(3) Tent sites shall be developed at a maximum density of four units per acre.

(4) Picnic sites shall be developed at a maximum density of eight units per acre.

(5) Campsites shall be designed for maximum privacy; clearing of vegetation and grading shall be minimal.

4. Residential Density and Minimum Lot Size. Residential projects may be approved with minimum lot sizes of six thousand square feet only when an overall density of one unit per two and one-half acres is maintained.

5. Parking Facilities. New parking areas shall be dispersed into small clusters separated by landscaped areas.

D. Residential Rural (RR). The following standards apply within the RR land use category.

1. Limitation on Use. All land uses listed by Section 22.06.030 as allowable, permitted, or conditional within the RR land use category may be authorized in compliance with the land use permit requirements of that section, except animal facilities, farm equipment and supplies, nursery specialties, grocery stores, and restaurants.

2. Land Division Standards—North of Towne Creek. New land divisions shall comply with the following standards.

a. New land divisions shall be designed in compliance with the cluster division provisions of Chapter 22.22.

b. Building sites shall be located on soils best suited for septic system use.

c. Provide coordinated interior streets.

d. Provide lake access for the involved property owners through roads, easements, or common open space areas.

e. Serve clustered lots by a common water source rather than individual wells.

f. Common areas shall be owned and maintained by property owners groups.

g. Locate new building sites on slopes less than twenty percent.

E. Rural Lands (RL). The following standards apply within the RL land use category.

1. Limitation on Use. All land uses listed by Section 22.06.030 as allowable, permitted, or conditional within the RL land use category may be authorized in compliance with the land use permit requirements of that section, except residential care, manufacturing and processing activities, correctional institutions, Ag processing, and farm equipment and supplies, which are not allowed.

2. Minimum Parcel Size. The minimum size for new parcels portions of Sections 2, 11 & 12 of T26S, R9E, MD&M, identified as Assessor's Parcel Number 80-054-01, is eighty acres instead of the minimum otherwise required by this Title.

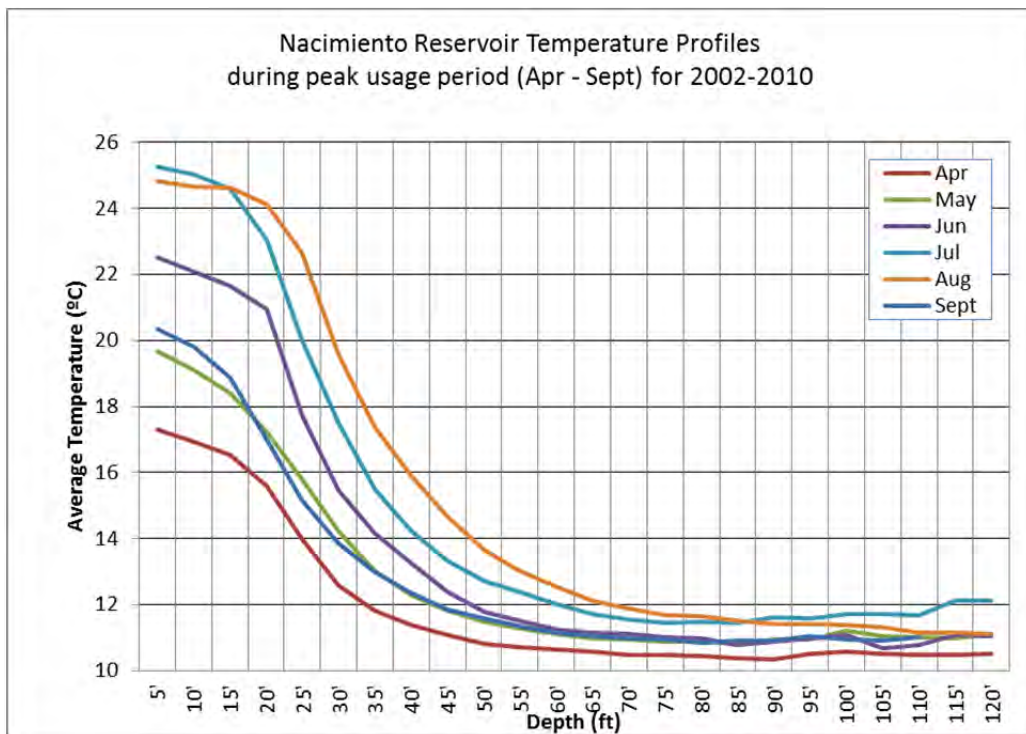
(Ord. 2982 § 1 (part), 2002)

Appendix C

Visitor Limitation Calculations For Nacimiento Reservoir

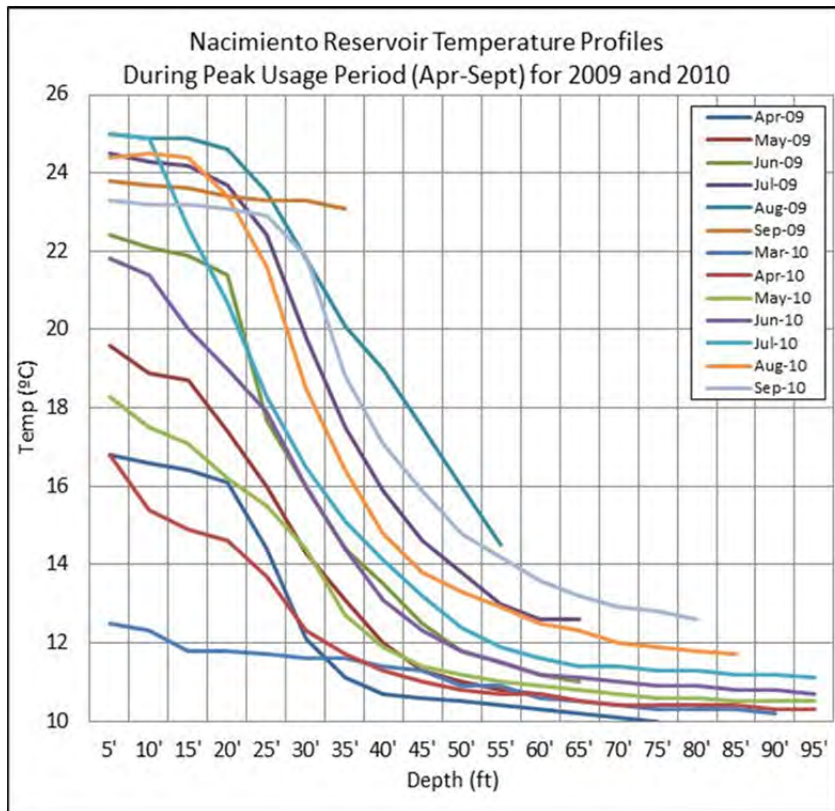
Visitor Limitation Calculations based on boating attendance

	Total annual boating attendance	Average surface elevation (ft MSL)												
July 2001 - June 2002	192,980	766												
July 2002 - June 2003	173,246	755												
July 2003 - June 2004	162,458	750												
July 2004 - June 2005	176,105	764												
July 2005 - June 2006	171,991	784												
July 2006 - June 2007	165,803	776												
July 2007 - June 2008	126,499*	752												
July 2008 - June 2009	104,168	742												
July 2009 - June 2010	280,514	740												
Average	178,408	759												
	<i>*estimated</i>													
	<table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th colspan="2">30' Thermocline</th> <th colspan="2">40' Thermocline</th> </tr> <tr> <th>Surface Area at elevation 760' (acres)</th> <th>Volume above thermocline (ac ft)</th> <th>Volume above thermocline (ac ft)</th> <th>Avg annual attendance per ac ft</th> </tr> </thead> <tbody> <tr> <td>3,829</td> <td>114,870</td> <td>153,160</td> <td>1.2</td> </tr> </tbody> </table>		30' Thermocline		40' Thermocline		Surface Area at elevation 760' (acres)	Volume above thermocline (ac ft)	Volume above thermocline (ac ft)	Avg annual attendance per ac ft	3,829	114,870	153,160	1.2
30' Thermocline		40' Thermocline												
Surface Area at elevation 760' (acres)	Volume above thermocline (ac ft)	Volume above thermocline (ac ft)	Avg annual attendance per ac ft											
3,829	114,870	153,160	1.2											



Visitor Limitation Calculations based on Lake Nacimiento Resort attendance

Attendance		Average
Day Use	Total	Surf Elev (ft)
4,515	10,595	738
16,881	33,769	732
18,309	33,981	723
12,450	14,294	711
1,140	1,712	713
975	1,295	714
468	544	711
879	999	726
354	510	754
1,560	2,088	770
6,273	8,561	775
13,704	24,156	777
18,123	35,515	773
24,186	46,186	767
25,593	54,219	760
15,945	20,573	753
5,088	6,412	747
2,412	3,044	744
2,055	2,243	747
1,797	1,969	763
2,499	2,871	769
3,567	4,163	789
97,513	168,927	748



Surface Area at 750' elevation (acres)	30' Thermocline		40' Thermocline	
	Volume (ac ft)	Avg annual attendance per ac ft	Volume (ac ft)	Avg annual attendance per ac ft
3,362	100,860	1.7	134,480	1.3

Appendix D

Nacimiento Reservoir Water Quality Coliforms and Cyst Monitoring Data

Nacimiento Reservoir Bacteriological Monitoring Data

Sample Site	Collected Date	Depth (feet)	Total coliforms (MPN/100 mL)	E. coli (MPN/100 mL)
EPILIMNION	5/21/1997	10	>4,600	<11
HYPOLIMNION	5/21/1997	120	>4,600	<11
EPILIMNION	6/11/1997	15	1,600	<2
HYPOLIMNION	6/11/1997	90	>1,600	<2
EPILIMNION	7/30/1997	15	>1,600	<2
HYPOLIMNION	7/30/1997	90	>1,600	<2
EPILIMNION	8/26/1997	15	9,000	<20
HYPOLIMNION	8/26/1997	90	1,300	<20
EPILIMNION	9/24/1997	15	500	<2
HYPOLIMNION	9/24/1997	90	500	<2
EPILIMNION	10/29/1997	15	300	<2
HYPOLIMNION	10/29/1997	90	130	<2
EPILIMNION	11/20/1997	15	220	<2
HYPOLIMNION	11/20/1997	90	170	4
EPILIMNION	12/10/1997	30	170	8
HYPOLIMNION	12/10/1997	90	1,600	170
EPILIMNION	1/21/1998	30	500	2
HYPOLIMNION	1/21/1998	120	30	2
EPILIMNION	2/4/1998	5	3,000	8
HYPOLIMNION	2/4/1998	90	3,000	4
EPILIMNION	3/11/1998	30	500	2
HYPOLIMNION	3/11/1998	120	50	2
EPILIMNION	4/14/1998	30	>1,600	<2
HYPOLIMNION	4/14/1998	150	>1,600	2
EPILIMNION	5/19/1998	15	220	<2
HYPOLIMNION	5/19/1998	150	800	<2
EPILIMNION	8/22/2001	15	170	<2
HYPOLIMNION	8/22/2001	90	500	<2
EPILIMNION	9/19/2001		230	<2
HYPOLIMNION	9/19/2001		70	<2
EPILIMNION	10/16/2001		50	<2
HYPOLIMNION	10/16/2001		23	<2
EPILIMNION	11/5/2001	20	2,400	<1
HYPOLIMNION	11/5/2001	75	110	<1
EPILIMNION	12/17/2001	2	36	<1
HYPOLIMNION	12/17/2001	65	53	<1
HYPOLIMNION	1/23/2002	90	280	<1
EPILIMNION	1/23/2002	5	9	1
EPILIMNION	2/6/2002	30	6	<1
HYPOLIMNION	2/6/2002	80	20	1
EPILIMNION	4/16/2002		13	<1
HYPOLIMNION	4/16/2002		7	<1
EPILIMNION	5/14/2002	5	19	<1

Sample Site	Collected Date	Depth (feet)	Total coliforms (MPN/100 mL)	E. coli (MPN/100 mL)
HYPOLIMNION	5/14/2002	40	5	<1
EPILIMNION	6/18/2002		250	1
HYPOLIMNION	6/18/2002		2,400	<1
EPILIMNION	7/16/2002		220	<1
HYPOLIMNION	7/16/2002	50	580	<1
EPILIMNION	8/13/2002		390	<1
HYPOLIMNION	8/13/2002	40	54	<1
EPILIMNION	10/22/2002	5	25	<1
HYPOLIMNION	10/22/2002	60	38	<1
EPILIMNION	11/19/2002		110	2
HYPOLIMNION	11/19/2002		60	2
HYPOLIMNION	12/18/2002	50	340	66
EPILIMNION	12/18/2002		170	23
EPILIMNION	1/30/2003		980	<1
HYPOLIMNION	1/30/2003	25	71	<1
EPILIMNION	2/11/2003	5	>2,400	1
HYPOLIMNION	2/11/2003	25	1,300	1
EPILIMNION	4/1/2003		1,000	<1
HYPOLIMNION	4/1/2003	35	340	<1
EPILIMNION	5/1/2003		2,400	<1
HYPOLIMNION	5/1/2003	25	1,600	<1
EPILIMNION	5/15/2003		30	<1
HYPOLIMNION	5/15/2003	40	15	<1
EPILIMNION	6/18/2003		140	20
HYPOLIMNION	6/18/2003	30	81	<1
EPILIMNION	7/30/2003	15	150	<1
HYPOLIMNION	7/30/2003	75	870	<1
EPILIMNION	8/20/2003	15	77,000	<1
HYPOLIMNION	8/20/2003	60	1,700	<1
EPILIMNION	9/17/2003	20	>24,000	1
HYPOLIMNION	9/17/2003	65	2,900	2
EPILIMNION	11/19/2003	15	140	<1
HYPOLIMNION	11/19/2003	50	250	1
EPILIMNION	12/17/2003	10	52	<1
HYPOLIMNION	12/17/2003	50	67	<1
EPILIMNION	1/29/2004	15	10	1
HYPOLIMNION	1/29/2004	50	16	2
EPILIMNION	2/19/2004	20	7	<1
HYPOLIMNION	2/19/2004	50	12	<1
EPILIMNION	3/18/2004	15	1,700	<1
HYPOLIMNION	3/18/2004	60	110	<1
EPILIMNION	4/30/2004	15	36	<1
HYPOLIMNION	4/30/2004	60	15	<1
EPILIMNION	5/12/2004	15	22	1
HYPOLIMNION	5/12/2004	60	20	<1
EPILIMNION	6/15/2004	20	1,700	<1

Sample Site	Collected Date	Depth (feet)	Total coliforms (MPN/100 mL)	E. coli (MPN/100 mL)
HYPOLIMNION	6/15/2004	55	580	<1
EPILIMNION	7/13/2004	20	20,000	<1
HYPOLIMNION	7/13/2004	60	2,900	<1
EPILIMNION	8/10/2004	15	370	<1
HYPOLIMNION	8/10/2004	50	610	<1
EPILIMNION	9/14/2004	15	70	1
HYPOLIMNION	9/14/2004	45	520	2
EPILIMNION	10/21/2004	5	14,000	2
HYPOLIMNION	10/21/2004	45	3,100	6
EPILIMNION	11/16/2004	10	170	<1
HYPOLIMNION	11/16/2004	45	220	2
EPILIMNION	12/14/2004	15	20	<1
HYPOLIMNION	12/14/2004	55	140	1
EPILIMNION	1/13/2005	20	390	2
HYPOLIMNION	1/13/2005	20	310	3
EPILIMNION	2/15/2005	15	230	1
HYPOLIMNION	2/15/2005	90	290	<1
EPILIMNION	3/15/2005	20	340	<1
HYPOLIMNION	3/15/2005	90	82	<1
EPILIMNION	4/12/2005	15	110	<1
HYPOLIMNION	4/12/2005	85	110	<1
EPILIMNION	5/10/2005	15	610	<1
HYPOLIMNION	5/10/2005	90	140	<1
EPILIMNION	6/14/2005	15	130	<1
HYPOLIMNION	6/14/2005	105	100	<1
EPILIMNION	7/12/2005	15	20,000	<1
HYPOLIMNION	7/12/2005	90	690	1
EPILIMNION	8/16/2005	15	580	<1
HYPOLIMNION	8/16/2005	80	1,200	<1
EPILIMNION	9/12/2005	15	120	1
HYPOLIMNION	9/12/2005	85	520	1
EPILIMNION	10/20/2005	15	7,700	<1
HYPOLIMNION	10/20/2005	85	2,400	<1
EPILIMNION	11/15/2005	15	5,800	<1
HYPOLIMNION	11/15/2005	85	870	1
EPILIMNION	12/13/2005	25	2,000	2
HYPOLIMNION	12/13/2005	95	520	4
EPILIMNION	1/10/2006	45	390	5
HYPOLIMNION	1/10/2006	100	440	11
HYPOLIMNION	2/7/2006	70	220	<1
EPILIMNION	2/7/2006	15	2,400	<1
EPILIMNION	3/14/2006	20	520	<1
HYPOLIMNION	3/14/2006	80	920	<1
EPILIMNION	4/12/2006	15	180	<1
HYPOLIMNION	4/12/2006	85	23	<1
EPILIMNION	5/8/2006	20	11	<1

Sample Site	Collected Date	Depth (feet)	Total coliforms (MPN/100 mL)	E. coli (MPN/100 mL)
HYPOLIMNION	5/8/2006	90	17	<1
EPILIMNION	6/13/2006	15	32	1
HYPOLIMNION	6/13/2006	90	25	<1
EPILIMNION	7/17/2006	15	200	1
HYPOLIMNION	7/17/2006	80	290	<1
HYPOLIMNION	8/15/2006	85	1,100	1
EPILIMNION	8/15/2006	15	2,400	<1
EPILIMNION	9/12/2006	15	1,400	1
HYPOLIMNION	9/12/2006	75	2,400	<1
EPILIMNION	10/17/2006	21	3,100	<1
HYPOLIMNION	10/17/2006	91	5,800	<1
EPILIMNION	11/7/2006	20	140	<1
HYPOLIMNION	11/7/2006	70	2,400	1
EPILIMNION	12/13/2006	26	210	3
HYPOLIMNION	12/13/2006	86	220	1
EPILIMNION	1/10/2007	14	5	<1
HYPOLIMNION	1/10/2007	74	3	<1
EPILIMNION	2/20/2007	14	5	<1
HYPOLIMNION	2/20/2007	70	1	<1
EPILIMNION	3/12/2007	10	220	1
HYPOLIMNION	3/12/2007	70	230	1
EPILIMNION	4/9/2007	12	11	<1
HYPOLIMNION	4/9/2007	72	3	1
HYPOLIMNION	5/14/2007	60	5	<1
EPILIMNION	5/14/2007	10	51	<1
EPILIMNION	6/11/2007	11	28	<1
HYPOLIMNION	6/11/2007	55	10	<1
EPILIMNION	7/16/2007	15	250	<1
HYPOLIMNION	7/16/2007	55	410	<1
HYPOLIMNION	8/6/2007	55	730	1
EPILIMNION	8/6/2007	15	330	<1
HYPOLIMNION	9/10/2007	40	82	<1
EPILIMNION	9/10/2007	10	190	<1
HYPOLIMNION	10/1/2007	50	820	1
EPILIMNION	10/1/2007	15	6,100	<1
HYPOLIMNION	11/5/2007	50	340	<1
EPILIMNION	11/5/2007	20	330	<1
HYPOLIMNION	12/10/2007	60	12	<1
EPILIMNION	12/10/2007	20	7	<1
EPILIMNION	1/14/2008	20	120	1
HYPOLIMNION	1/14/2008	60	100	1
HYPOLIMNION	2/4/2008	70	120	1
EPILIMNION	2/4/2008	20	110	1
HYPOLIMNION	3/12/2008	65	150	1
EPILIMNION	3/12/2008	15	690	<1
HYPOLIMNION	4/2/2008	75	290	<1

Sample Site	Collected Date	Depth (feet)	Total coliforms (MPN/100 mL)	E. coli (MPN/100 mL)
EPILIMNION	4/2/2008	10	1,000	<1
HYPOLIMNION	5/7/2008	75	19	<1
EPILIMNION	5/7/2008	10	25	<1
HYPOLIMNION	6/2/2008	75	36	<1
EPILIMNION	6/2/2008	10	690	<1
HYPOLIMNION	7/7/2008	60	650	<1
EPILIMNION	7/7/2008	10	150	<1
HYPOLIMNION	8/11/2008	50	2,000	<1
EPILIMNION	8/11/2008	10	20,000	<1
HYPOLIMNION	9/8/2008	50	130	1
EPILIMNION	9/8/2008	10	160	1
HYPOLIMNION	10/6/2008	50	1,300	<1
EPILIMNION	10/6/2008	10	2,000	1
HYPOLIMNION	11/3/2008	55	100	1
EPILIMNION	11/3/2008	15	330	1
EPILIMNION	12/1/2008	15	17	<1
HYPOLIMNION	12/1/2008	50	16	<1
HYPOLIMNION	1/5/2009	50	53	1
EPILIMNION	1/5/2009	15	79	<1
HYPOLIMNION	2/2/2009	50	200	1
EPILIMNION	2/2/2009	10	3,900	<1
HYPOLIMNION	3/9/2009	55	100	2
EPILIMNION	3/9/2009	15	410	1
EPILIMNION	4/6/2009	10	7	<1
HYPOLIMNION	4/6/2009	55	40	<1
HYPOLIMNION	5/4/2009	50	7,300	<1
EPILIMNION	5/4/2009	10	11,000	<1
HYPOLIMNION	6/1/2009	50	1,200	<1
EPILIMNION	6/1/2009	10	1,000	<1
HYPOLIMNION	7/13/2009	50	580	<1
EPILIMNION	7/13/2009	10	290	<1
HYPOLIMNION	8/3/2009	40	420	<1
EPILIMNION	8/3/2009	10	140	<1
HYPOLIMNION	9/14/2009	30	110	<1
EPILIMNION	9/14/2009	10	93	<1
HYPOLIMNION	10/5/2009	25	65	<1
EPILIMNION	10/5/2009	5	62	1
HYPOLIMNION	11/2/2009	25	580	11
EPILIMNION	11/2/2009	5	200	1
HYPOLIMNION	12/9/2009	25	16	1
EPILIMNION	12/9/2009	5	11	2
HYPOLIMNION	1/4/2010	35	31	<1
EPILIMNION	1/4/2010	5	84	<1
Elevation 740	2/1/2010	6	190	1
Elevation 730	2/1/2010	16	160	2
Elevation 720	2/1/2010	26	250	1

Sample Site	Collected Date	Depth (feet)	Total coliforms (MPN/100 mL)	E. coli (MPN/100 mL)
Elevation 710	2/1/2010	36	280	4
Elevation 700	2/1/2010	46	330	11
Elevation 690	2/1/2010	56	290	7
Elevation 680	2/1/2010	66	190	7
HYPOLIMNION	2/1/2010	60	260	10
EPILIMNION	2/1/2010	10	240	3
Elevation 680	3/9/2010	89	47	<1
Elevation 690	3/9/2010	79	77	<1
Elevation 700	3/9/2010	69	110	1
Elevation 710	3/9/2010	59	56	<1
Elevation 720	3/9/2010	49	75	3
Elevation 730	3/9/2010	39	100	<1
Elevation 740	3/9/2010	29	99	5
Elevation 750	3/9/2010	19	72	4
Elevation 760	3/9/2010	9	46	2
HYPOLIMNION	3/9/2010	65	61	1
EPILIMNION	3/9/2010	10	88	1
Elevation 770	4/6/2010	3	2,000	<1
Elevation 760	4/6/2010	13	2,400	1
Elevation 750	4/6/2010	23	1,600	1
Elevation 740	4/6/2010	33	1,400	<1
Elevation 730	4/6/2010	43	610	<1
Elevation 720	4/6/2010	53	490	1
Elevation 710	4/6/2010	63	870	1
Elevation 700	4/6/2010	73	330	<1
Elevation 690	4/6/2010	83	2,000	<1
Elevation 680	4/6/2010	93	870	1
HYPOLIMNION	4/6/2010	53	370	<1
EPILIMNION	4/6/2010	13	920	<1
Elevation 770	5/3/2010	7	>24000	1
Elevation 760	5/3/2010	17	17,000	1
Elevation 750	5/3/2010	27	5,200	2
Elevation 740	5/3/2010	37	2,600	2
Elevation 730	5/3/2010	47	2,000	1
Elevation 720	5/3/2010	57	1,200	1
Elevation 710	5/3/2010	67	870	<1
Elevation 700	5/3/2010	77	580	<1
Elevation 690	5/3/2010	87	650	<1
Elevation 680	5/3/2010	97	820	1
HYPOLIMNION	5/3/2010	57	2,000	<1
EPILIMNION	5/3/2010	17	24,000	2
Elevation 770	6/1/2010	7	190	<1
Elevation 760	6/1/2010	17	6,500	<1
Elevation 750	6/1/2010	27	1,700	<1
Elevation 740	6/1/2010	37	770	<1
Elevation 730	6/1/2010	47	730	<1

Sample Site	Collected Date	Depth (feet)	Total coliforms (MPN/100 mL)	E. coli (MPN/100 mL)
Elevation 720	6/1/2010	57	410	<1
Elevation 710	6/1/2010	67	340	<1
Elevation 700	6/1/2010	77	240	<1
Elevation 690	6/1/2010	87	170	1
Elevation 680	6/1/2010	97	210	2
HYPOLIMNION	6/1/2010	47	730	1
EPILIMNION	6/1/2010	17	5,500	<1
Elevation 760	7/6/2010	9	250	<1
Elevation 750	7/6/2010	19	110	1
Elevation 740	7/6/2010	29	110	<1
Elevation 730	7/6/2010	39	120	<1
Elevation 720	7/6/2010	49	74	<1
Elevation 710	7/6/2010	59	220	<1
Elevation 700	7/6/2010	69	86	<1
Elevation 690	7/6/2010	79	99	<1
Elevation 680	7/6/2010	89	210	<1
HYPOLIMNION	7/6/2010	69	89	<1
EPILIMNION	7/6/2010	9	330	<1
Elevation 760	8/9/2010	2	12,000	<1
Elevation 750	8/9/2010	12	13,000	<1
Elevation 740	8/9/2010	22	24,000	<1
Elevation 730	8/9/2010	32	4,900	2
Elevation 720	8/9/2010	42	3,400	<1
Elevation 710	8/9/2010	52	1,000	<1
Elevation 700	8/9/2010	62	1,100	<1
Elevation 690	8/9/2010	72	1,200	<1
Elevation 680	8/9/2010	82	820	<1
HYPOLIMNION	8/9/2010	62	920	<1
EPILIMNION	8/9/2010	22	>24,000	<1
Elevation 750	9/13/2010	4	91	<1
Elevation 740	9/13/2010	14	110	<1
Elevation 730	9/13/2010	24	460	1
Elevation 720	9/13/2010	34	610	<1
Elevation 710	9/13/2010	44	610	<1
Elevation 700	9/13/2010	54	650	<1
Elevation 690	9/13/2010	64	460	2
Elevation 680	9/13/2010	74	520	<1
Elevation 670	9/13/2010	81	610	<1
HYPOLIMNION	9/13/2010	54	370	<1
EPILIMNION	9/13/2010	14	110	<1
Elevation 740	10/4/2010	9	360	<1
Elevation 730	10/4/2010	19	190	<1
Elevation 720	10/4/2010	29	110	<1
Elevation 710	10/4/2010	39	280	<1
Elevation 700	10/4/2010	49	730	<1
Elevation 690	10/4/2010	59	870	2

Sample Site	Collected Date	Depth (feet)	Total coliforms (MPN/100 mL)	E. coli (MPN/100 mL)
Elevation 680	10/4/2010	69	520	<1
Elevation 670	10/4/2010	79	340	1
Elevation 660	10/4/2010	89	410	1
HYPOLIMNION	10/4/2010	49	820	1
EPILIMNION	10/4/2010		390	<1
Elevation 740	11/1/2010	5	81	<1
Elevation 730	11/1/2010	15	120	1
Elevation 720	11/1/2010	25	100	<1
Elevation 710	11/1/2010	35	120	<1
Elevation 700	11/1/2010	45	93	<1
Elevation 690	11/1/2010	55	390	1
Elevation 680	11/1/2010	65	490	<1
Elevation 670	11/1/2010	75	390	1
Elevation 660	11/1/2010	85	370	<1
HYPOLIMNION	11/1/2010	65	550	<1
EPILIMNION	11/1/2010		150	<1
Elevation 740	12/6/2010	3	40	<1
Elevation 730	12/6/2010	13	53	1
Elevation 720	12/6/2010	23	53	2
Elevation 710	12/6/2010	33	59	<1
Elevation 700	12/6/2010	43	58	<1
Elevation 690	12/6/2010	53	36	<1
Elevation 680	12/6/2010	63	30	<1
Elevation 670	12/6/2010	73	26	<1
Elevation 660	12/6/2010	83	59	1
EPILIMNION	12/6/2010		50	3
HYPOLIMNION	12/6/2010	83	77	2
Elevation 760	1/10/2011	3	180	5
Elevation 750	1/10/2011	13	180	7
Elevation 740	1/10/2011	23	210	3
Elevation 730	1/10/2011	33	240	5
Elevation 720	1/10/2011	43	390	11
Elevation 710	1/10/2011	53	460	11
Elevation 700	1/10/2011	63	520	6
Elevation 690	1/10/2011	73	610	19
Elevation 680	1/10/2011	83	1,000	32
Elevation 670	1/10/2011	93	1,700	34
Elevation 660	1/10/2011	103	2,400	41
HYPOLIMNION	1/10/2011	83	1,000	28
EPILIMNION	1/10/2011		200	6
Elevation 760	2/7/2011	4	18	1
Elevation 750	2/7/2011	14	16	1
Elevation 740	2/7/2011	24	18	<1
Elevation 730	2/7/2011	34	12	<1
Elevation 720	2/7/2011	44	14	<1
Elevation 710	2/7/2011	54	20	<1

Sample Site	Collected Date	Depth (feet)	Total coliforms (MPN/100 mL)	E. coli (MPN/100 mL)
Elevation 700	2/7/2011	64	29	<1
Elevation 690	2/7/2011	74	51	<1
Elevation 680	2/7/2011	84	53	<1
Elevation 670	2/7/2011	94	56	2
Elevation 660	2/7/2011	104	24	<1
Elevation 780	3/7/2011	3	38	<1
Elevation 770	3/7/2011	13	80	1
Elevation 760	3/7/2011	23	93	1
Elevation 750	3/7/2011	33	96	4
Elevation 740	3/7/2011	43	83	3
Elevation 730	3/7/2011	53	150	4
Elevation 720	3/7/2011	63	180	7
Elevation 710	3/7/2011	73	200	5
Elevation 700	3/7/2011	83	180	7
Elevation 690	3/7/2011	93	170	7
Elevation 680	3/7/2011	103	310	16
Elevation 670	3/7/2011	113	220	9
Elevation 660	3/7/2011	123	370	16
Elevation 790	4/5/2011	10	2,400	<1
Elevation 780	4/5/2011	20	980	1
Elevation 770	4/5/2011	30	1,400	2
Elevation 760	4/5/2011	40	1,200	35
Elevation 750	4/5/2011	50	980	4
Elevation 740	4/5/2011	60	1,000	5
Elevation 730	4/5/2011	70	550	2
Elevation 720	4/5/2011	80	550	<1
Elevation 710	4/5/2011	90	980	1
Elevation 700	4/5/2011	100	650	2
Elevation 690	4/5/2011	110	650	19
Elevation 680	4/5/2011	120	730	20
Elevation 670	4/5/2011	130	550	12
Elevation 660	4/5/2011	140	580	13

Maximum	77,000	170
Minimum	1	<1
Median	250	<1
Mean	1,493	2
n	397	397

Appendix E

Nacimiento Reservoir Water Quality Data Summary

See notes at end regarding reported and calculated values.

Constituent	Units	Min	Max	Median	Mean	n	DLR	1° MCL	2°MCL	PHG
Algae										
Total Algae	no./mL	0	11,000	110	285	830				
Blue Greens	no./mL	0	4,000	0	36	830				
Diatoms	no./mL	0	3,400	18	74	830				
Flagellates	no./mL	0	640	0	10	830				
Greens	no./mL	0	10,000	46	166	830				
Coliforms										
Total coliforms	MPN/100 mL	0	77,000	230	1,413	419				
E. coli	MPN/100 mL	0	170	0	2	419				
Crypto/Giardia										
Crypto/Giardia	orgs/L	0	0	0	0	11				
Nutrients										
NH3-N	mg/L	0	0.22	0.00	0.02	33				
NO2-N	µg/L	0	13	0.00	0.27	128	400	1,000		
NO3-N	µg/L	0	844	0.00	78	136	450	10,000		
NO3	mg/L	0	3.74	0.00	0.34	136				
OKN	mg/L	0	0.00	0.00	0.00	29				
TKN	mg/L	0	1.60	0.29	0.31	134				
Reactive Si	mg/L	7	18	12	12	342				
PO4-P (total)	mg/L	0	0.34	0.00	0.02	165				
PO4-P-ortho (reactive P)	mg/L	0	0.04	0.02	0.02	6				

Constituent	Units	Min	Max	Median	Mean	n	DLR	1° MCL	2°MCL	PHG
DBP Precursors										
Bromide	mg/L	0.000	0.110	0.015	0.015	416				
TOC	mg/L	2.6	6.4	3.4	3.6	610				
DOC	mg/L	2.7	6.0	3.6	3.7	94				
UV254	1/cm	0.041	0.199	0.100	0.108	94				
SUVA	L/mg-m	1.3	5.2	3.1	2.9	64				
General Minerals										
Aggressive Index	---	11	13	12	12	79				
Alkalinity, total	mg/L	69	245	100	102	134				
Ca	mg/L	19	38	27	27	117				
Cl	mg/L	2	12	6	6	114			250	
CO3	mg/L	0	20	0	1	115				
Cu	µg/L	0	27	0	2	130	50	1,300 (AL)	1,000	300
EC	µmhos/cm	180	380	270	270	110			900	
Fe	µg/L	24	6,100	150	315	653			300	
Hardness, total	mg/L	84	150	120	120	114				
HCO3	mg/L	70	245	100	104	115				
Langelier Index	---	-1.5	0.8	-0.5	0	116				
MBAS	mg/L	0	0	0	0	112			0.5	
Mg	µg/L	8	20	13	13	114				
Mn	µg/L	0	820	12	44	653			50	
Na	mg/L	6	11	8	8	111				
NO2-N	µg/L	0	13	0	0	128	400	1,000		1,000
NO3-N	µg/L	0	844	0	78	136	450	10,000		10,000
OH	mg/L	0	0	0	0	115				

Constituent	Units	Min	Max	Median	Mean	n	DLR	1° MCL	2°MCL	PHG
SO4	mg/L	5	39	30	29	114			250	
TDS	mg/L	130	306	170	177	147			500	
Zn	µg/L	0	57	0	4	127				
Inorganics										
Ag	µg/L	0	0.58	0	0	124	---	---	100	---
Al - total	µg/L	0	2,400	72	181	732	50	1,000	200	600
Al - dissolved	µg/L	0	160	0	12	142				
As	µg/L	0	3.00	0	0.17	124	3	10		0.004
Asbestos	MFL	0	0	0	0	10	0.2	7		7
Ba	µg/L	0	60	38	39	108	100	1,000		2
Be	µg/L	0	0	0	0	80	1	4		1
Cd	µg/L	0	0.53	0	0.01	108	1	5		0.04
CN	µg/L	0	0	0	0	71	100	150		150
Cr	µg/L	0	4.10	0	0.55	108	10	50		---
F	mg/L	0	0.28	0.14	0.15	106	0.1	2		1
Hg	µg/L	0	0.65	0	0	425	1	2		1.2
Ni	µg/L	0	6.90	0	0.72	100	10	100		12
NO3-N	µg/L	0	844	0	78	136	450	10,000		10,000
Pb	µg/L	0	4.20	0	0.14	108	5	15 (AL)		0.001
Perchlorate	µg/L	0	0	0	0	11	4	6		6
Sb	µg/L	0	0	0	0	80	6	6		20
Se	µg/L	0	0	0	0	108	5	50		30
Tl	µg/L	0	0	0	0	80	1	2		0.1

Constituent	Units	Min	Max	Median	Mean	n	DLR	1° MCL	2°MCL	PHG
Physicals										
Apparent Color	C.U.	8.0	55	23	25	89			15	
Odor	TON	0	30	3	3	834			3	
True Color	CU	2.0	37	8	10	814				
Turb	NTU	0.5	44	3	6	792			5	
Settleable solids	mg/L	0	0	0	0	18				
Suspended Solids	mg/L	0	18	2	3	69				
Depth	ft	2.0	140	40	45	880				
DO	mg/L	0	12	7	6	660				
Temp	°C	6.8	27	12	14	891				
pH (lab)	---	7.0	10	8	8	147				
Radiologicals										
GrossA	pCi/L	0	2	0	0	31	3	15		
Ra228	pCi/L	0	0	0	0	3	1	5 (with Ra226)		19
VOCs/SOCs										
Atrazine	µg/L	0	0	0	0	8	0.5	1		0.15
Benzo(a)pyrene	µg/L	0	0	0	0	2	0.1	0.2		0.004
Chlordane	µg/L	0	0	0	0	4	0.1	0.1		0.03
DBCP	µg/L	0	0	0	0	4	0.01	0.2		0.0017
DEHA	µg/L	0	0	0	0	3	5	400		200
DEHP	µg/L	0	16	0	3	9	3	4		12
EDB	µg/L	0	0	0	0	4	0.02	0.05		0.01
Endrin	µg/L	0	0	0	0	4	0.1	2		1.8
Hexachlorobenzene	µg/L	0	0	0	0	3	0.5	1		0.03

Constituent	Units	Min	Max	Median	Mean	n	DLR	1 ^o MCL	2 ^o MCL	PHG
Heptachlor	µg/L	0	0	0	0	3	0.01	0.01		0.008
Heptachlor epoxide	µg/L	0	0	0	0	4	0.01	0.01		0.006
Hexachlorocyclopentadiene	µg/L	0	0	0	0	3	1	50		50
Methoxychlor	µg/L	0	0	0	0	4	10	30		30
MTBE	µg/L	0	14	0	4	11	3	13	5	13
Picloram	µg/L	0	0	0	0	4	1	500		500
Simazine	µg/L	0	0	0	0	2	1	4		4

Notes

1. Maximum values - reporting

Results reported by a lab as "greater than" some value were reported on this summary as the maximum known value.

For example, a result reported by a lab as "> 24,000" was reported as 24,000 on this summary

2. Maximum values - calculations

Results reported by a lab as "greater than" some value were converted to the maximum known value for use in calculations.

For example, a result reported as "> 24,000" was converted to 24,000 for use in calculations

3. Minimum values - reporting

Detection limits frequently vary depending on the lab and the method used.

Results reported by a lab as "less than" a detection limit were reported on this summary as zero.

For example, a result reported by a lab as "< 5" was reported as 0 in this summary.

4. Minimum values - calculations

Results reported by a lab as "less than" a detection limit were all converted to zero for use in calculations.

For example, a result reported as "< 5" was converted to 0 for use in calculations.

Appendix F

Recreation Area Inspection Form

INSPECTION OF DOMESTIC WATER RESERVOIR FACILITIES

Reservoir Inspected _____

Date _____

1. Inspected by _____

2. Extent of Use

- a. Total marked campsites _____
- b. Number of marked campsites occupied _____
- c. Total overflow campsites _____
- d. Overflow campsites occupied _____
- e. Park attendance during inspection _____
- f. Use of Lake: _____ Heavy Moderate Light
- g. Maximum daily attendance previous month _____ Date

3. Toilet and Restroom Facilities

- a. Number/condition in use
 - 1. Vault toilets _____
 - 2. Chemical toilets _____
 - 3. Waterflush toilets _____
 - 4. Floating toilets _____
- b. Approximate number of toilets inspected:
 - 1. Campgrounds _____
 - 2. Shoreline areas _____
 - 3. Floating toilets _____
- c. Adequacy of service _____
- d. Cleanliness and odor _____
- e. Health hazards _____
- f. Corrections required/made _____

4. Mobile Unit Sewage Dump Station

- a. Cleanliness and general conditions _____

5. Campgrounds and Picnic Areas

- a. Percent of campgrounds and picnic areas inspected _____
- b. Cleanliness and general conditions _____
- c. Waste disposal
 - 1. Number of violations
 - (a) Buckets overflowing (waste discharging to ground) _____
 - (b) Garbage and refuse _____
 - (c) Health hazards and comments _____
 - (d) Insect or rodent problems _____
 - (e) Corrections recommended/made _____

6. Shoreline Fishing Areas

- a. Cleanliness and general conditions _____
- b. Number of vehicles too near water's edge _____
- c. Waste disposal _____
 - 1. Number/types of violations _____
- d. Corrections required/made _____ Date _____

7. Refuse Storage and Collection

- a. Adequacy of service _____
- b. Location of disposal sites _____
- c. Cleanliness and odor _____
- d. Insects and flies _____
- e. Health hazards and comments _____
- f. Corrections required/made _____

8. Fish Cleaning Facilities

- a. Cleanliness and general conditions _____
- b. Location of waste disposal _____
- c. Insect problems _____
- d. Corrections required/made _____

9. Concessionaire and Boat Cleaning Facilities

- a. Sanitation problems with boat washing facilities _____
- b. Cleanliness and general conditions _____
- c. Health hazards and comments _____
- d. Corrections required/made _____ Date _____

10. Patrol

- a. Number of patrolmen on duty in park _____
- b. Number of patrol boats on lake _____

11. Lake Inspection

- a. Clarity of water _____
- b. Intake areas restricted to public access _____
- c. Means of controlling storm debris _____
- d. Evidence of algae growth _____
- e. Evidence of floating and shoreline debris _____
- f. Adequacy of fencing to control animal intrusion _____

12. Fuel Loading Facilities

13. Emergency Plan _____

14. Comments _____
