

Raineri Mutual Water Company

Watershed Sanitary Survey Report

May 6, 2018

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Introduction:

The Raineri Mutual Water Company (RMWC), a non-profit mutual benefit corporation, was formed in 2011 by the homeowners connected to the old Idylwild Water System. It had been placed in receivership by CDPH when the long-time-owner, Bruce Franks, abandoned the system. The system remained in receivership until April 2014, when RMWC purchased the water system including all assets included all of the storage tanks, distribution systems, the collection pipe in Moody Gulch, and the water rights for the water supply in the Moody Gulch Stream. The RMWC was organized as a mutual company and all assets and liabilities belong to the water users who purchased shares in the Mutual Company. Its only purpose is to supply the users with a quality water source for household and land use needs.

The RMWC is located in the Santa Cruz Mountains outside of Los Gatos and near the Lexington Reservoir.

The water system is located in Santa Clara County and the service area is bound by the following roads: Hwy. 17, Idylwild Road, Raineri Lane, Old Santa Cruz Highway, Hebard Road, and Wright Drive. There are 42 properties supplied by RMWC with several more to be added soon. The only water source for RMWC is the Moody Gulch Stream which is uphill and to the west of Hwy. 17. It is a surface water source. (See attached topo map). Primary Station Code 430052-0001

Deeded water rights were transferred to RMWC on 04/07/2014. The assigned DIWQS is ID# S001518. These water rights are the most upstream of all of the other water rights for Moody Gulch Stream giving RMWC first collection rights to this water supply. This also assures RMWC of a very low risk of contamination or inadequate supply of water.

The Moody Gulch water supply has not seen any recent changes, and the one resident of the Gulch (Biddle Ranch) burned in the 1970s so there are no dwellings or human sources of contamination (septic systems, ranches, industry, or new home construction). This was insured by the purchase of Moody Gulch by several mountain water systems that use Moody Gulch water, paid for by a special tax assessment. The adjacent property is owned by Mid Peninsula Open Space, so future contamination sources are very unlikely.

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Water System Status:

The intake pipe for RMWC water is a 2" perforated PVC pipe (about 24" long) that lies in a collection spring box in the stream bed of the Moody Gulch Stream. This pipe connects to a 2" PVC pipe on the downhill side of the box. It lies above Hwy 17 in elevation and about 2,500 feet uphill from the road. Access is blocked by a locked gate, and there are no hiking or horse trails in the Gulch. As noted, the intake pipe is located above all the other water users for the stream.

A spring box has been added to keep debris from the intake. The water is then fed into a 50 gal. poly storage tank at the intake site to trap some of the natural sediments and to create a pressure head and remove air before the water travels by gravity flow to the storage tanks on the opposite side of Hwy. 17. The pipe runs downhill, then through a large culvert pipe under the roadway until it reaches the treatment plant on Rainier Lane (3500 to 4000 feet). At the treatment plant, the water first runs through pre-filters, then a system of slow-sand filter tanks; after which the water is chlorinated in a 20,000 gal. chlorination tank before it goes to two 40,000 storage tanks from which it is sent to the users—all by gravity flow. Pre-filters were added before the filtration tanks after the 2016-2017 heavy storm season to reduce sediment and turbidity from storms. The tanks also underwent inspection and sediment cleaning in 2017.

There are no wells supplying water to the system as noted, and the water in the distribution system is fed to the homes by gravity flow. The treatment system and all of the homes supplied are thousands of feet downhill and down stream from the site of the water collection.

The water supply has been reliable and safe for more than 50 years and was sufficient even during the years of drought.

Thoughts on improvements: Preventing contamination of a surface water source.

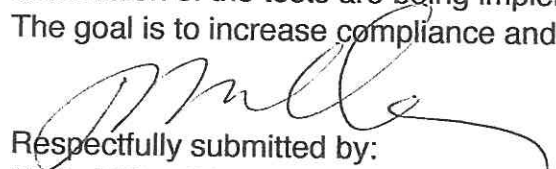
The watershed is in a remote and difficult to reach area, not open to human traffic or hiking, and the path to the collection pipe is blocked by a locked gate.

Adding a "NO TRESPASSING" sign to the gate area is planned.

There are plans to improve the intake pipe and collection area with the intake surrounded by filtering gravel to further reduce the possible intake of solids or debris at the source.

Sources of contamination at this time—and in the future is limited to airborne pollutants, wildlife living in the area that includes deer, wild turkey, raccoon, opossum, bobcat, rodents, etc.

Monitoring of the water quality according to required standards are being met and automation of the tests are being implemented as time and cost allow. The goal is to increase compliance and reduce cost where possible.



Respectfully submitted by:

Philip Miller, RMWC Board Member, on behalf of the
RMWC Board of Directors.

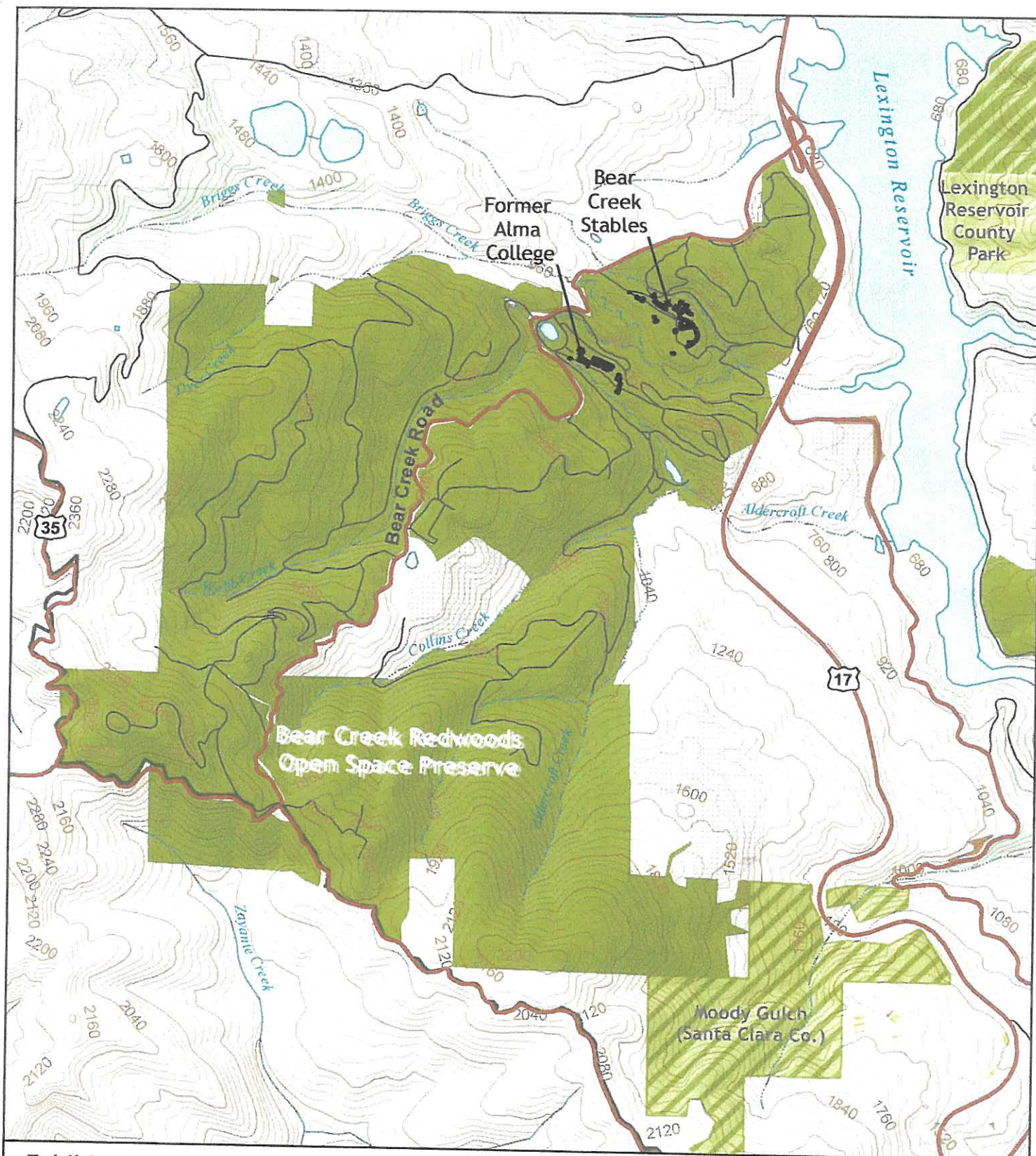


Exhibit 2 Preserve Location



MROSD Preserves



Urban Area



Existing Roads



Highways

Midpeninsula Regional
Open Space District
(MROSD)

June, 2015



Other Protected Open Space
or Park Lands



MROSD Conservation
or Agricultural Easement

Watershed Land

Easement over MROSD



0 0.25 0.5
Miles

While the District strives to use the best available digital data, this data does not represent a legal survey and is merely a graphic illustration of geographic features.



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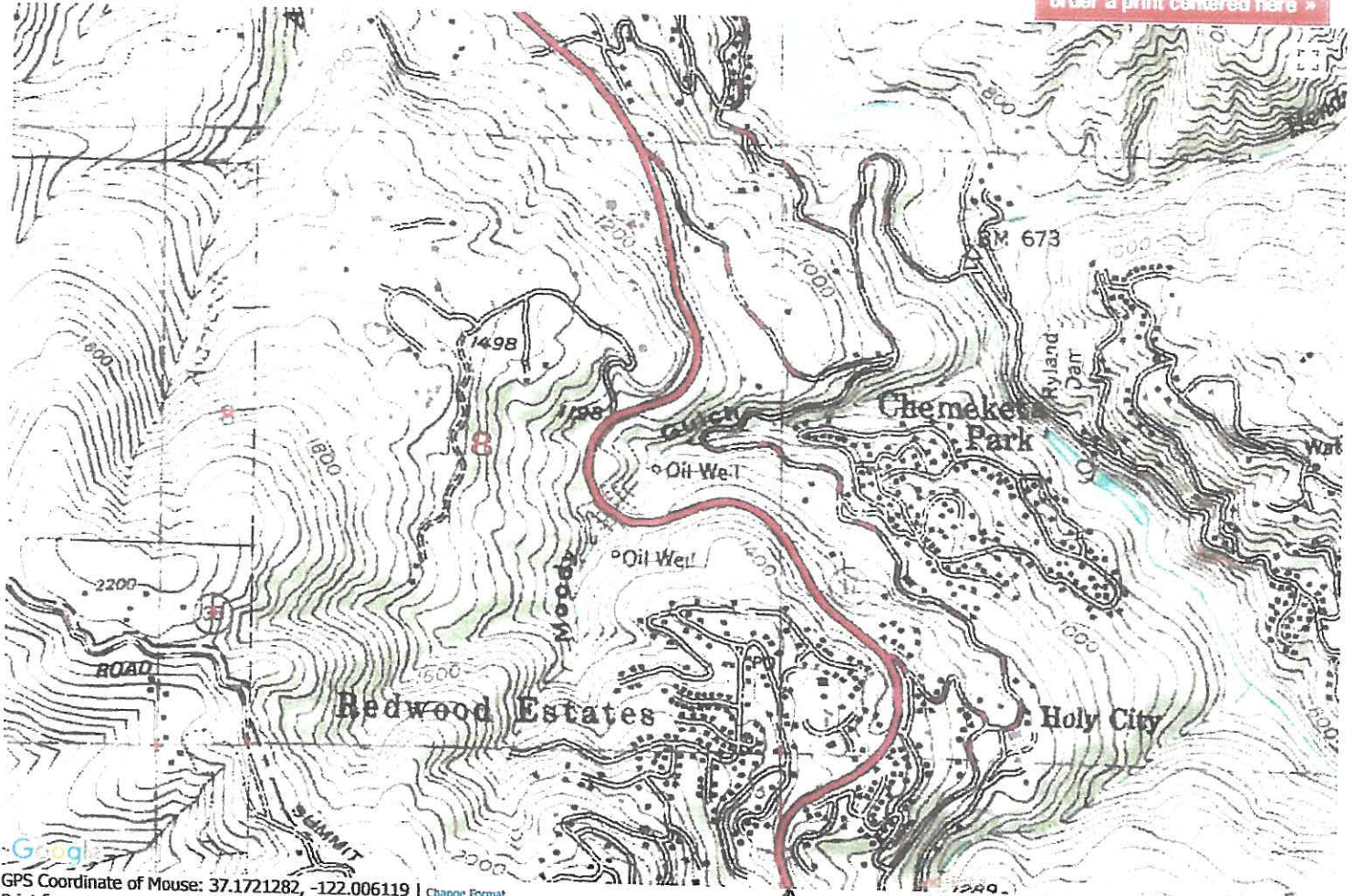
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e-WRIMS Water Right Search Results

Criteria: Displaying Water Rights where County = Santa Clara; Source = Moody.

Search Results: previous **1-6 of 6** next

Appl ID	Permit ID	License ID	Water Right Type	Status	Holder Name	Date	Face Amt	County	Source	View Reports	Water Right	Open in GIS	Export Excel
→ S001518			Statement of Div and Use	Claimed	RAINERI MUTUAL WATER COMPANY	04/07/2014	0 acre-ft/yr			View Reports	View Statement	Open in GIS	Download to Excel
S013265			Statement of Div and Use	Inactive	BARRY WIDEN	06/08/2007	0 acre-ft/yr			View Reports	View Statement	Open in GIS	Download to Excel
S002157			Statement of Div and Use	Claimed	CHEMEKETA PARK MUTUAL WATER CO	01/01/1975	0 acre-ft/yr	Santa Clara	MOODY CREEK	View Reports	View Statement	Open in GIS	Download to Excel
S001641			Statement of Div and Use	Claimed	SAN JOSE WATER COMPANY	01/01/1975	0 acre-ft/yr	Santa Clara	MOODY CREEK	View Reports	View Statement	Open in GIS	Download to Excel
S003731			Statement of Div and Use	Claimed	E. BRUCE, DANIEL B. AND THE FRANKS FAMILY	01/01/1975	0 acre-ft/yr	Santa Clara	MOODY GULCH	View Reports	View Statement	Open in GIS	Download to Excel
A012066	007102	003424	Appropriative	Licensed	CHEMEKETA PARK MUTUAL WATER CO	09/03/1947	21.8 acre-ft/yr	Santa Clara	MOODY GULCH	View Reports	View License	Open in GIS	Download to Excel

[Return to Water Right Public Search Form](#)

[Download to Excel](#)

Sanitary Survey : Idylwild Water System

October 30, 2009

Water System No.4300520

Idylwild Water Co.

20915 Old Santa Cruz Hwy.

Los Gatos, Ca. 95030

NOV 03 2009

Idylwild Water System is a community water system located in an unincorporated area south of the town of Los Gatos, Ca., Santa Clara county. The service area is bounded by Idylwild road, Raineri Lane, Old Santa Cruz Highway, Hebard Road, and Wright Road. Idylwild provides potable water to approximately 135 residents through 44 service connections.

The only source of water is the Moody Gulch Stream, surface water, (primary station code 4300520-001), located above highway 17. (See attached topo map)

Idylwild watershed has remained unchanged for over 100 years. The only resident that was within influence of the stream, the Biddle Ranch, has been long gone, burning down in the 1970's. The said property is now under the control of the Mid-Pen open space, and there are no other sources of contaminants, i.e. (septic systems, industry or new construction).

The intake consists of a 2" perforated pipe located in the stream bed of the Moody gulch. A new spring box has been added, which is covered to keep debris from the intake. The water is fed to a 50 gal poly storage tank, on site at the intake, which allows for some trapping of natural sediments, and to create some head pressure and allows for air to escape before the water travels to the storage facilities.

From this intake, the water is piped and flows by gravity to the chlorination facility for treatment at the first 20,000 gallon storage tank on Raineri Lane. Sodium hypochlorite is continuously injected into this 1st contact tank. At this time, the reserve piping has been removed, and water is now fed from the bottom of this tank, which allows for more contact time, but limits the amount of water that can be protected and stored, in case of a main break, or loss of water.

Water at this location is fed to the distribution system or overflows into the second 20,000 gallon storage tank for distribution. Water is also fed by gravity to the 40,000 gallon storage facility located on Idylwild Road.

Water from the Moody Gulch Stream is chlorinated but not filtered prior to storage and delivery. Beginning September 1, 2009 to provide a 3-log reduction of *Giardia lamblia* cysts and a 4-log reduction of viruses, a minimum chlorine residual of 3.2 mg/l is maintained.

All efforts are made to produce a safe, clean, and potable water for the residents of the Idylwild Water system.