

CHAPTER 19 REDWOOD VALLEY PLANT ATTACHMENTS

Attachment - CSP - 64889 1 (Excerpt from CWS response to DR JMI-007)

Attachment - CSP - 64889 2 (Cal Water Response to DR JMI-016)

Attachment - LUC - 64851 1 (Excerpt from CWS Response to DR JMI-007)

Attachment - RDV - 64941 1 (V208135 Updated Mileage Analysis)

RDV- Coast Springs

PID #	Proj. Year	Address	Date of leak	Pipe Corrosion Observed	Type of leak (hole, split, etc.)	Pipe type/age	Pipe diameter	Cause of leak	Operating pressure	How pipe was repaired	Any other relevant information recorded in the leak repair report
13302	2008	4 Cliff, Dillon Beach	5.4.1999	corroded	corrosion	galv/1950's	2"	corrosion	n/a	clamp	
cancelled, rewritten		13 Cliff, Dillon Beach	5.1.1999	corroded	corrosion	galv/1950's	2"	corrosion	n/a	clamp	
see #64889 below		13 Cliff, Dillon Beach	11.4.2004	corroded	corrosion	galv/1950's	2"	corrosion	n/a	clamp	
20962	2010	72 Ocean View, Dillon Beach	3.29.2004	corroded	corrosion	galv/1950's	2"	corrosion	n/a	clamp	
completed 2010		21 North & Ocean Vw., Dillon Beach	6.2.2008	corroded	corrosion	galv/1950's	2"	corrosion	n/a	clamp	
		38 Ocean View, Dillon Beach	1.29.08	corroded	corrosion	galv/1950's	2"	corrosion	n/a	clamp	
20442	2012	51 Park, Dillon Beach	5.4.2002	corroded	corrosion	galv/1950's	2"	corrosion	n/a	clamp	
cancelled		54 Park, Dillon Beach	9.4.2004	corroded	corrosion	galv/1950's	2"	corrosion	n/a	clamp	
		51 Park, Dillon Beach	8.4.2004	corroded	corrosion	galv/1950's	2"	corrosion	n/a	clamp	
		25 Park, Dillon Beach	4.3.2004	corroded	corrosion	galv/1950's	2"	corrosion	n/a	clamp	
2013 GRC Application project											
64888	2013	4 Cliff, Dillon Beach	5.4.1999	corroded	corrosion	galv/1950's	2"	corrosion	n/a	clamp	
		13 Cliff, Dillon Beach	5.1.1999	corroded	corrosion	galv/1950's	2"	corrosion	n/a	clamp	
		13 Cliff, Dillon Beach	11.4.2004	corroded	corrosion	galv/1950's	2"	corrosion	n/a	clamp	
		Cliff & Beach, Dillon Beach	9.5.07	corroded	corrosion	galv/1950's	2"	corrosion	n/a	clamp	
		78 Ocean View	6.16.10	corroded	corrosion	galv/1950's	2"	corrosion	n/a	clamp	



Also see emails/letters regarding
 septic tanks on cliff properties
 + separation of space. Marin County
 also wants to chip seal Ocean
 View to the end and would
 initiate a 2 year moratorium.

REV - Coast Springs

*WO# 64889
Ocean Dr on
Cliff Street*

DRAW # A. 120 1007. J.M. 1007



RDY-179-52



CALIFORNIA WATER SERVICE COMPANY
1720 NORTH FIRST STREET
SAN JOSE, CA 95112 (408) 367-8200 F (408) 367-8428

April 25, 2013

Yoke Chan, Project Coordinator
Pat Ma, Project Coordinator
Justin Menda, Utilities Engineer
Division of Ratepayer Advocates
505 Van Ness Avenue,
San Francisco, CA 94102

RE: CWS Response to Data Request No. JMI-016, RWV Coast Springs – fire hydrants

Cal Water's response to data request JMI-016 is as follows:

All questions in this data request pertain to the Coast Springs subarea of the Redwood Valley District.

1. During the public participation hearing (PPH) for Coast Springs on April 11, 2013, (1) Mr. Sarantapoulas mentioned that there is only one functioning fire hydrant in the Village of Dillon Beach and (2) Ms. Christensen-Morris, who lives in Ocean View of Dillon Beach, indicates the fire hydrant nearest her residence is not a functioning hydrant and a functioning one is too far away to provide her with protection in the event of a fire.
 - a. Please verify and confirm the accuracy of the fire hydrant situations that both Mr. Sarantapoulas and Ms. Christensen-Morris mentioned.
RESPONSE: All fire hydrants and wharf-heads are operational. See CS Hydrants Status Informational Sheet (JMI-016 Appendix A).
 - b. If either or both situations mentioned in part 1.a. are confirmed, please explain for each why there is only one functioning fire hydrant in the Village and why the nonfunctioning fire hydrant in Ocean View has not been repaired.
RESPONSE: All units are functioning as originally acquired. There are five 6" hydrants, two 4" wharf-heads and five 2" wharf-heads in the specified area near these customers.
 - c. How long has the fire hydrant in Ocean View been nonfunctioning?
RESPONSE: We have not found the units to be nonfunctioning.
 - d. How often does Cal Water test the fire hydrants in Coast Springs?
RESPONSE: We do not perform routine testing. Units are used for flushing during leak repair events. The 2" mains are old, corroded, and brittle.

- e. Provide the date of Cal Water's most recent tests of the fire hydrants in Coast Springs. Include test records.

RESPONSE: Official testing results are not available.

- 2. During a conversation between Cal Water and DRA after the PPH concerning the fire hydrant situations mentioned in Question 1 above, Cal Water indicated that in addition to the one fire hydrant, there are also functioning standpipes in the Village.

- a. How many standpipes are located in the Coast Springs subarea, particularly in the area where the one functioning hydrant is located?

RESPONSE: The lower "village" area contains five 6" hydrants, four 4" wharf-heads, five 2" wharf-heads, and one 2" standpipe. See attached CS Hydrant Map for the locations of these assets. (JMI-016 Appendix B).

- b. What is the pressure and flow capacity for these standpipes mentioned in question 2.a? Is a standpipe capable of providing the same fire protection as a fire hydrant? Explain differences, if any.

RESPONSE: Fire-flow capability in standpipes and hydrants depend on the size of water system network mains they are attached to. Attaching a larger hydrant to a smaller main would not increase fire-flow capability. An old 2" main and attached 2" wharf-head might provide a fire-flow of 50-100 gpm at 20 psi, and an old 4" main and attached 4" wharf-head might provide a fire-flow of 300-400 gpm at 20 psi, depending on the extent of the tuberculation in the existing pipes. A new 6" main and attached 6" hydrant can provide a fire-flow of 1,300 gpm at 20 psi.

- c. How often are the standpipes in Coast Springs tested for their functionality?

RESPONSE: There is one standpipe in the village area and it is not routinely tested. This standpipe is in the near proximity of a new 6" main and attached 6" hydrant and will not be used for fire protection.

- 3. Cal Water is requesting two new 6" fire hydrants as part of Project #64889 - Main Replacement – Cliff Beach to Ocean View (see Redwood Valley Project Justifications Report, page 1).

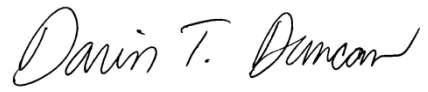
- a. Provide the exact locations where the proposed fire hydrants will be located.

RESPONSE: See attached map indicating the two locations scheduled for replacement.

- b. Explain rationale for proposed locations.

RESPONSE: The proposed locations will provide two new 6" size hydrants with main replacement to increase capacity for fire flow protection to the west end of the village area. The new hydrants will be located closer to the homes not currently near one. Two homes on Cliff Street were destroyed by fire in 2002 and subsequently rebuilt.

CALIFORNIA WATER SERVICE COMPANY

A handwritten signature in black ink that reads "Darin T. Duncan". The signature is written in a cursive, flowing style.

Darin T. Duncan
Manager of Rates

Enclosures

APPENDIX A

Coast Springs Hydrant and Warfhead survey April 2013 per PUC DRA Data Request A.12-07-007

Valve #	Address	Hydrant	Warfhead	Size	Operational	Static PSI	Flow	Comments
16	15 Oceana Drive	X		6"	Yes	54	n/a	corrosion @ isolation valve
18	70 Oceana Drive	X		6"	Yes	38	n/a	dry barrell
** 38	Cliff & Beach		X	4"	Yes	67	n/a	replace 2.5" cap
42	22 Bay		X	4"	Yes	67	n/a	wharfhead
43	46 Bay		X	4"	Yes	60	n/a	wharfhead
** 44	82 Ocean Vw & Cliff St		X	2"	Yes	38	n/a	wharfhead
50-51	27 Ocean Vw (new)	X		6"	Yes	42	n/a	new install in 2011
53	4 Ocean Vw		X	2"	Yes	55	n/a	standpipe w/ground valve only
58	17 North St	X		6"	Yes	46	n/a	hydrant
59	35 North St		X	2"	Yes	51	n/a	wharfhead
60	50 Park St		X	2"	Yes	48	n/a	wharfhead
61	149 Cypress & Summer		X	2"	Yes	56	n/a	wharfhead
62	4 Dillon Bch/Beach Rd		X	4"	Yes	59	n/a	wharfhead
64	20 Park St		X	2"	Yes	55	n/a	wharfhead
74	8 Ocean Vw (new)	X		6"	Yes	55	n/a	new install in 2011

** Project #64889 proposed locations for replacement, to install 6" hydrants.

APPENDIX B

CALIFORNIA WATER SERVICE CO.
 REDWOOD VALLEY DISTRICT
 P.O. BOX 198
 GUERNEVILLE, CA 95446

*Coast Springs
 old "Village"
 area mty.*

DRA A. 12-07-007 of 4/18/13



LEGEND

- 6" Hydrant (5)
- 4" warthead (4)
(wearable valve at-top)
- 2" warthead (6)
(isolation valve @ base corroded + open)

* units proposed to be replaced in wo #64889

RDV Lucerne

PID #	Proj Year	Address	Date of leak	Pipe Corrosion Observed	Type of leak (hole, split, etc.	Pipe type/age	Pipe diameter	Cause of leak	Operating pressure	How pipe was repaired
20314	2009	6090 1st, Lucerne	3.25.2004	corroded	corrosion	galv/1960's	2"	corrosion	80-90	clamp
Completed 2010		4418 Bush, Lucerne	3.17.2005	corroded	corrosion	galv/1960's	1.5"	corrosion	80-90	clamp
		4407 Bush, Lucerne	4.18.2005	corroded	corrosion	galv/1960's	1.5"	corrosion	80-90	clamp
		6079 1st, Lucerne	4.27.2006	corroded	corrosion pinhole	galv/1960's	2"	corrosion	80-90	clamp
		Bush & 1st, Lucerne	7.27.2006	corroded	corrosion	galv/1960's	1.5"	corrosion	80-90	clamp
		1st & Elm, Lucerne	10.20.2006	pvc	hole	pvc/1970's	1.5"	joint	80-90	clamp
		6088 1st, Lucerne	7.23.2007	corroded	hole	galv/1960's	2"	corrosion	80-90	clamp
		6088 1st, Lucerne	8.22.2007	corroded	pinhole	galv/1960's	2"	corrosion	80-90	clamp
		1st & Bush, Lucerne	9.28.2007	corroded	hole	galv/1960's	1.5"	corrosion	80-90	clamp
		1st & Grove, Lucerne	3.20.2008	corroded	hole	galv/1960's	2"	corrosion	80-90	clamp
		6051 1st, Lucerne	5.8.2008	corroded	hole	galv/1960's	2"	corrosion	80-90	clamp
		1st @ Elm & Bush, Lucerne	4.24.2009	corroded	joint	galv/1960's	1.5"	joint	80-90	clamp
		1st @ Bush, Lucerne	7.29.2009	corroded	pinhole	galv/1960's	1.5"	corrosion	80-90	clamp
		4372 Elm, Lucerne	8.20.2009		cracked cap	pvc/1970's	2"	joint	80-90	replaced cap & compacted
20319	2011	Country Club @ 1st & 2nd, Lucerne	2.22.2005	AC	crack	AC/1970's	4"	blow out	85-90	contractor
Cancelled & re-written		Country Club @ 2nd & 3rd, Lucerne	2.23.2005	AC	split	AC/1970's	4"	blow out	85-90	Contractor, replaced 13' w/pvc
as #64851 below		Country Club & Welsh, Lucerne	5.20.2006	AC	split	AC/1970's	4"	blow out	85-90	Contractor
		First & Highland, Lucerne	10.11.2006	corroded	hole	galv/1960's	2"	corrosion	85-90	clamp, contractor
		Country Club @ Welsh & RobinHood, Luc	3.20.2008	AC	split	AC/1970's	4"	blow out	85-90	Contractor, replaced 15' w/pvc
20320	2012	3462 Country Club, Lucerne	1.9.2004	AC	split	AC/1970's	6"	blow out	85-90	Contractor, replaced 26' w/pvc
Completed 2012		3630 Country Club, Lucerne	3.9.2004	AC	split	AC/1970's	6"	blow out	85-90	contractor, replaced 13' w/pvc
		3660 Country Club, Lucerne	4.12.2004	AC	split	AC/1970's	6"	blow out	85-90	contractor repaired
		3462 Country Club, Lucerne	8.22.2005	AC	split	AC/1970's	6"	blow out	85-90	contractor repaired
		Country Club @ 15th & 16th, Lucerne	5.22.2006	AC	split	AC/1970's	6"	blow out	85-90	contractor repaired
		Country Club @ 14th & 15th, Lucerne	5.21.2006	AC	split	AC/1970's	6"	blow out	85-90	contractor repaired
		3526 Country Club, Lucerne	7.5.2006	AC	split	AC/1970's	6"	blow out	85-90	Contractor, replaced 40' w/pvc
		6490 Country Club, Lucerne	7.4.2007	AC	split	AC/1970's	6"	blow out	85-90	contractor repaired
		3594 Country Club, Lucerne	12.27.2007	AC	split	AC/1970's	6"	blow out	85-90	contractor, replaced 13' w/pvc
		3526 Country Club, Lucerne	8.20.2008	AC	split	AC/1970's	6"	blow out	85-90	contractor repaired
		6485 14th @ Country Club, Lucerne	4.25.2009	corroded	pinhole	galv/1960's	2"	corrosion	80-90	clamped
		3462 Country Club, Lucerne	6.9.2009	AC	shear	AC/1970's	6"	shear break	85-90	contractor, replaced 55' w/pvc
2013 GRC Application Projects:										
64851	2014	Country Club @ 1st & 2nd, Lucerne	2.22.2005	AC	crack	AC/1970's	4"	blow out	85-90	contractor
		Country Club @ 2nd, Lucerne	2.23.2005	AC	split	AC/1970's	4"	blow out	85-90	Contractor, replaced 13' w/pvc
		Country Club & Welsh, Lucerne	5.20.2006	AC	split	AC/1970's	4"	blow out	85-90	Contractor
		First & Highland, Lucerne	10.11.2006	corroded	hole	galv/1960's	2"	corrosion	85-90	clamp, contractor
		Country Club @ RobinHood, Luc	3.20.2008	AC	split	AC/1970's	4"	blow out	85-90	Contractor, replaced 15' w/pvc
		2nd Ave @ Cclub @ valve	2.1.2011	steel/galv	leaking valve	galv/1960's	2"	leaking valve	85-90	contractor replaced valve
		1st Ave. between Highland & Cclub	9.27.11							
		Welsh and Country Club	12.24.11							
20333	2015	Country Club @ 13th & 14th, Lucerne	1.22.2004	AC	split	AC/1970's	6"	blow out	85-90	contractor, replaced 13' w/pvc
		Country Club @ 13th, Lucerne	8.21.2008	AC	split	AC/1970's	6"	blow out	85-90	contractor, replaced 20' w/pvc
		Country Club & Hotel Cir., Lucerne	7.4.2009	AC	split	AC/1970's	6"	blow out	85-90	contractor repaired, clamped
		Country Club & 13th	1.15.11	AC	split	AC/1970's	6"	blow out	85-90	contractor repaired, clamped
		3700 Country Club	4.26.11	AC	split	AC/1970's	6"	blow out	85-90	contractor repaired, clamped
		Country Club & 12th	4.1.12	AC	split	AC/1970's	6"	blow out	85-90	contractor repaired, clamped

DRA # A-120 7007 JMI 1007

RDV- Lucerne

WO# 64851

Country Club & First & Foothill



ATTACHMENT 1
64851

RDV-27-73

Replace Year	PID	Purchase Year	MILEAGE		Projected Mileage			Note
			AS OF 12-31-12	AVG MILES PER YEAR	2013	2014	2015	
REDWOOD VALLEY								
2015	64941	2010	83,160	41,580.00	124,740.00	166,320.00	207,900.00	V208135 (MOVE TO 2014)