



Lane County Environmental Health
 Drinking Water Program
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April 21 2015

McKenzie Ridge Subdivision PWS#41-06095
 Dave Love
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Subject: Corrective Action Required for McKenzie Ridge Subdivision to Address Source Water Fecal Contamination at Well.

The Drinking Water Services (DWS) has verified recent monitoring which confirms fecal (*E. coli*) contamination at well #1 (Lane 57268, L31833).

The results from recent monitoring at your water system are illustrated below:

Sample Date	Sample Type	Positive for Total Coliform Positive for <i>E. coli</i>		Sample Location
Apr 03, 2015	CO	Total	POSITIVE--1504157001	WELL #1
	CO	E.coli	POSITIVE--1504157001	WELL #1
Mar 11, 2015	CO	Total	POSITIVE--1503403005	WELL #1
	CO	E.coli	Absent--1503403005	WELL #1
Mar 11, 2015	CO	Total	POSITIVE--1503403004	WELL #1
	CO	E.coli	Absent--1503403004	WELL #1
Mar 11, 2015	CO	Total	POSITIVE--1503403003	WELL #1
	CO	E.coli	Absent--1503403003	WELL #1
Mar 11, 2015	CO	Total	POSITIVE--1503403002	WELL #1

	CO	E.coli	POSITIVE--1503403002	WELL #1
Mar 11, 2015	CO	Total	POSITIVE--1503403001	WELL #1
	CO	E.coli	Absent--1503403001	WELL #1
Mar 06, 2015	AS	Total	POSITIVE--1503257002	WELL #1
	AS	E.coli	POSITIVE--1503257002	WELL #1

Under the Groundwater Rule, McKenzie Ridge Subdivision must take corrective action to address the fecal contamination associated with the source. In order to comply with the Groundwater Rule as per OAR 333-061-0036(6)(f), and address the fecal contamination detected at your groundwater source, you have the following corrective action options for compliance:

1. Provide an alternate source of water. Either drill a new well or connect to a different well or public water system that meets all drinking water standards. Plan review is required prior to adding a new source; please contact (DWS) Plan Review at (971) 673-0408 to start that process.
2. Retain use of existing well by performing 4- Log viral inactivation. The well evaluation form states when effectively removing the source of fecal contamination is not plausible, chlorination with enough contact time to achieve 4.0-log viral inactivation is required. Compliance monitoring consists of maintaining a prescribed minimum chlorine residual at the entry point at all times, recording it daily and reporting to Oregon Health Authority-Drinking Water Services (OHA-DWS) on a monthly basis. Well #1 already has an approved chlorination system installed. Well #2 also meets construction standards if this well is confirmed for E.coli 4.0-log viral inactivation will be required prior to use of the well.
3. Additional option: the water system may be able to reconstruct the well in an effort to eliminate a shallow contaminated water bearing zone. Consult with OHA for further information.

The DWS Hydrogeologist has reviewed the well log for Well #1 (L31833) and found the well to be adequately constructed. “The well L31833 was drilled to a depth of 258 feet in July 1999. The well is cased and sealed to 19 feet (6 sacks of cement placed by tremie). Based upon the well log for L31833 and additional consideration of the well log for well L31832 which is located 20 feet away from the active well; the well seal placement depth is considered to meet standards. The conglomerate and the basalt are considered as one hydrostratigraphic unit. The well construction is therefore considered to meet construction standards in terms of; casing depth, casing seal depth, annular spacing, and sealant volume.”

For Technical questions regarding well evaluation please call the Regional Hydrogeologist at 541-726-2587 ext. 32

The water system shall continue to perform interim compliance monitoring until a final corrective action is achieved, the chlorine residual must be measured daily at the entry point to the distribution system to protect public health. The minimum chlorine residual to reliably provide 4-log inactivation of viruses for McKenzie Ridge Subdivision is 0.2 mg/L. Attached is a copy of the monthly groundwater report template. This needs to be submitted to the State by the 10th of each month for the previous month.

Under the Groundwater Rule timeline, you must contact me by **May 21th 2015** and inform me of your plan for correction. By **July 21th 2015**, you must have completed this corrective action or be on an approved schedule towards its completion.

If the water system fails to take action within the required time frame, notification must be provided to all persons served by the water system. A repeat public notice will be required every three months until all deficiencies are corrected or the water system is in compliance with an approved corrective action plan. A copy of the public notice must be forwarded to DWS-DMCE at PO Box 14450, Portland, OR 97293-0450. You may also fax the report to (971) 673-0694 or email to dpw.dmce@state.or.us.

If you have any questions or concerns, or would like this in an alternate format, please contact me at 541-682-3753, I appreciate your immediate attention to this matter. This is a complex issue and we are here to help you. Please do hesitate to contact me with any questions you may have.

Sincerely,

Sarah Puls
Lane County Environmental Health
Drinking Water Program

CC: Casey Lyon, DWS Springfield Office
Drinking Water Services, Portland files