

FERNAN ESTATES CORPORATION
PO BOX 692
COEUR D'ALENE, ID 83816

RECEIVED
MAR 10 2015
DEPARTMENT OF
WATER RESOURCES

March 7, 2015

Department of Water Resources
322 East Front Street
Boise, ID 83720

Re: 2014 Annual Report
License # 95-09323
Fernan Estates Corporation

Gentlemen:

This is our 2014 annual report of water diversion as required by the above water license.

Attached is a spread sheet showing the water usage of each lot owner.

You will note that the Bauer/Kimball usage for 2014 exceeded the maximum usage permitted by our license. This was due to a leak in their irrigation system which went undetected for some time. The leak was caused by a cracked pipe connecting a control valve to the main irrigation line at a point about two feet below the ground surface. The water coming from the leak did not surface so it was not discovered until the Bauer/Kimball water meter was read (once a quarter) and it was noticed that the meter was showing that water was running even though no water was being used either in the house or on the landscaping.

The Bauer/Kimball's original irrigation system was designed so that the irrigation lines were fully charged with water at all times. The irrigation controller opened and closed each valve as water was applied to the landscape. Hence the irrigation main line pipes were always under pressure and opened to receive water from the supply source; much like the water system servicing a house.

The homeowners, upon discovery of the leak, immediately added a component to the irrigation system. They installed a "normally closed master valve" which was placed on the main irrigation line just downstream of the double check valve. They also installed a new irrigation controller capable of signaling the master valve to turn on and off. This system is more typical in commercial settings but not in residential settings.

This master valve prevents any water from going into the irrigation main line from the supply source except for when the irrigation controller calls for water. When the water cycle is done, the master valve closes shutting off water to the main irrigation pipe line.

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Now, any leak in the main line system will only bleed out what water remains in the pipes after a watering cycle.

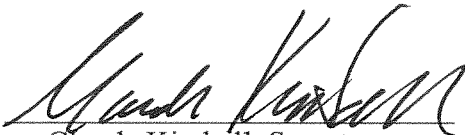
This new installation should prevent any on-going undetected continuous leaks such as occurred in 2014 from happening again.

If you have any questions or concerns, please contact the undersigned.

Very truly yours,

Fernan Estates Corporation

By:


Claude Kimball, Secretary

FERNAN ESTATES COPORATION
2014 WATER USAGE

WATER LICENSE # 95-09323

<u>HOME OWNER</u>	<u>METER READINGS FOR DEC 31, 2013</u>	<u>METER READING AS OF DEC 31, 2014</u>	<u>AVERAGE GALS. OF DAILY USE FOR 2014</u>
BRAASCH	64430	242630	488.2191781
BRIDGE	72170	165880	256.739726
CODDING	72950	178500	290
BAUER/KIMBALL	169391	564430	1082.29863
WALKER	0 *	80	1.333333333
MINATRI	0	16140	44.21917808
CONLEY	0 *	1160	10.8411215
MCKAHAN	29200	82720	146.630137
*			
Walker's hooked up on 11/1/2014 - no home built yet			
Conley's hooked up on 9/15/14 - home under construction in 2014			

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