

TO: Water Rights Section

June 12, 2000

FROM: Groundwater/Hydrology Section

Michael Zwart

Reviewer's Name

SUBJECT: Application G-15157

GROUNDWATER/SURFACE WATER CONSIDERATIONS

- 1. PER THE _____ Basin rules, one or more of the proposed POA's is/is not within _____ feet/mile of a surface water source (_____) and taps a groundwater source hydraulically connected to the surface water.
- 2. BASED UPON OAR 690-09 currently in effect, I have determined that the proposed groundwater use
 - a. ___ will, or _____ have the potential for substantial interference with the nearest
 - b. ___ will not _____ surface water source, namely Mill Creek; or
 - c. will if properly conditioned, adequately protect the surface water from interference:
 - i. The permit should contain condition #(s) 7 B;
 - ii. ___ The permit should contain special condition(s) as indicated in "Remarks" below;
 - iii. ___ The permit should be conditioned as indicated in item 4 below; or
 - d. ___ will, with well reconstruction, adequately protect the surface from substantial interference.

GROUNDWATER AVAILABILITY CONSIDERATIONS

- 3. BASED UPON available data, I have determined that groundwater for the proposed use
 - a. ___ will, or _____ likely be available in the amounts requested without injury to prior rights
 - b. ___ will not _____ and/or within the capacity of the resource; or
 - c. will if properly conditioned, avoid injury to existing rights or to the groundwater resource:
 - i. The permit should contain condition #(s) 7 B;
 - ii. ___ The permit should contain special condition(s) as indicated in "Remarks" below;
 - iii. ___ The permit should be conditioned as indicated in item 4 below; or
- 4.
 - a. ___ THE PERMIT should allow groundwater production from no deeper than _____ ft. below land surface;
 - b. ___ The permit should allow groundwater production from no shallower than _____ ft. below land surface;
 - c. ___ The permit should allow groundwater production only from the _____ groundwater reservoir between approximately _____ ft. and _____ ft. below land surface;
 - d. ___ Well reconstruction is necessary to accomplish one or more of the above conditions.
 - e. ___ One or more POA's commingle 2 or more sources of water. The applicant must select one source of water per POA and specify the proportion of water to be produced from each source.

REMARKS: _____

(Well Construction Considerations on Reverse Side)

212121

**OREGON WATER RESOURCES DEPARTMENT
INTEROFFICE MEMO**

To: File Date: June 12, 2000

From: Michael J. Zwart

Subject: Application Review: G-15157, James M. Ellett

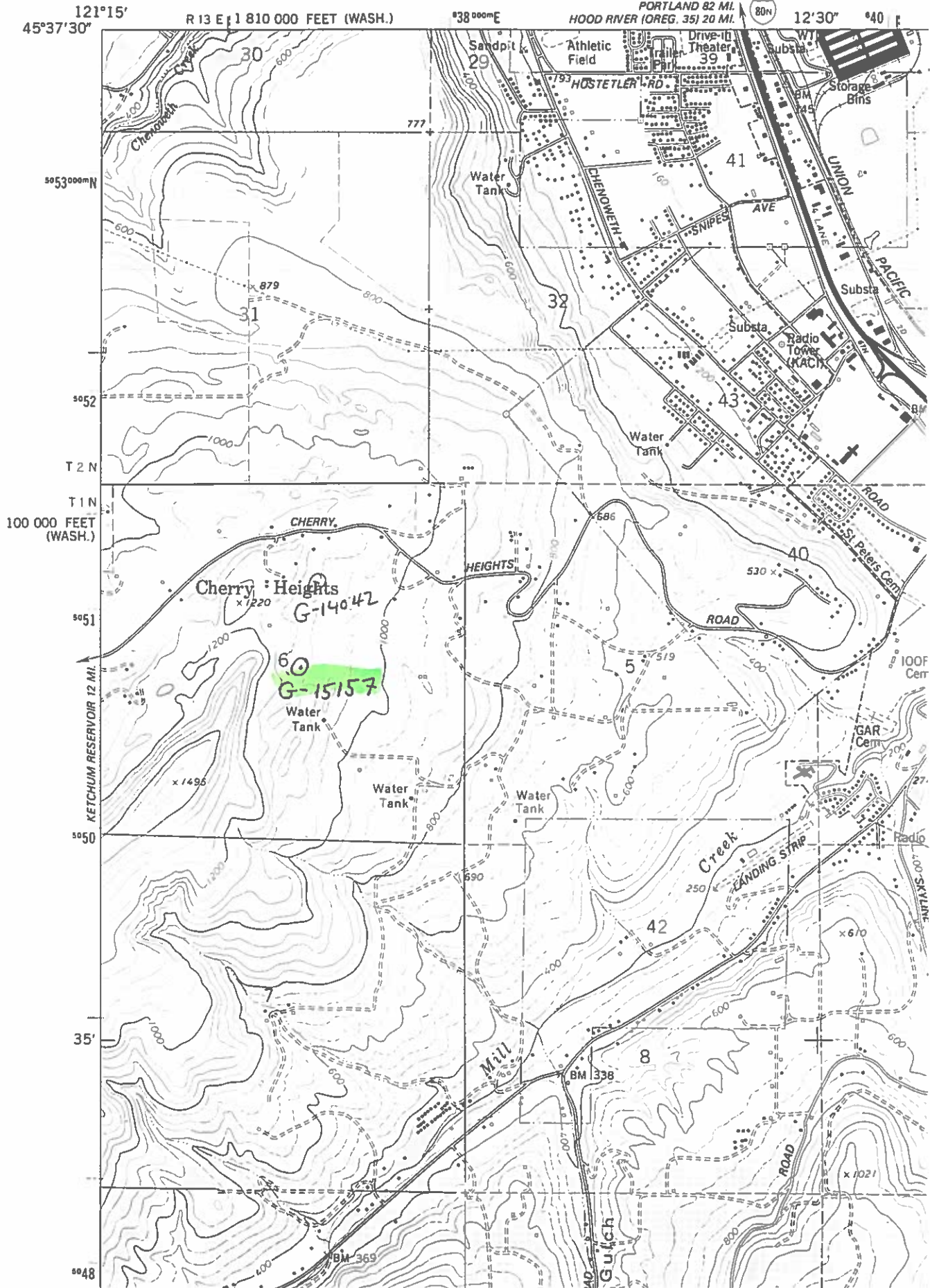
This application proposes to use about) 0.7281 cfs from one well (WASC 50624) for primary irrigation of 19.55 acres and supplemental irrigation of 38.7 acres. The well is completed to a depth of 860 feet and penetrates a semiconfined to confined aquifer developed in the Dalles Formation (sandstone and interbedded gravels and claystone) below a depth of 805 feet. The static water level is 618 feet below land surface.

The well is about 6400 feet from Mill Creek. The aquifer penetrated is not likely in hydraulic connection with the nearby reach of the creek. There is no potential for substantial interference with surface water, based on the distance, the confined aquifer penetrated and the head relationship.

I recommend permit condition 7B.

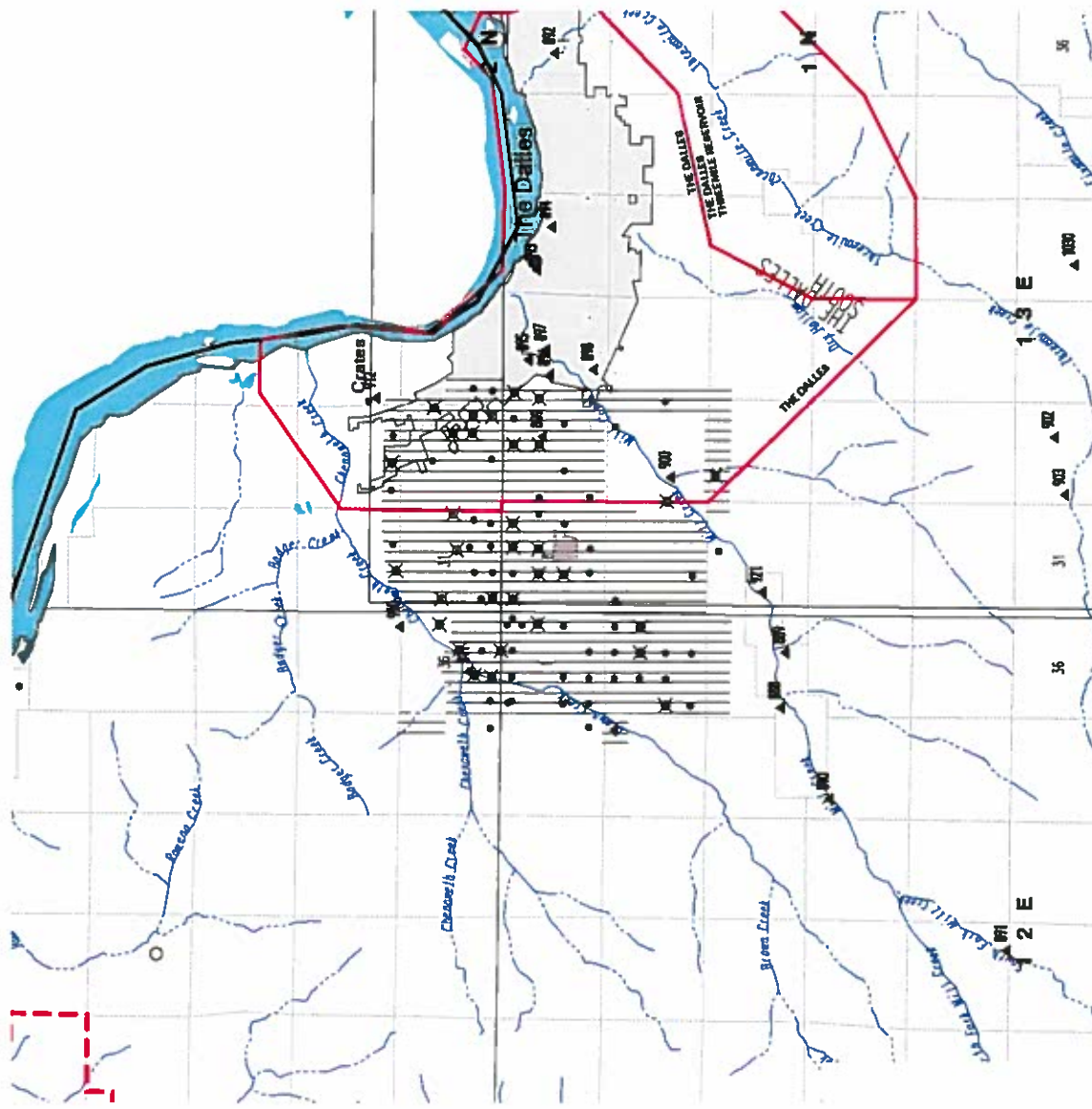
UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

175 W 1/4 E
(LYLE)



Wells in the vicinity of application G 15157

- Application well(s) in this 1/4-1/4 section
- Well(s) identified in this 1/4-1/4 section from OWRD's well log database within 1 mi. radius of application well(s)
- Well(s) identified in this 1/4-1/4 section from OWRD's well log database within 5 mi. radius of application well(s)
- ▲ OWRD Observation well and well-id within 5 mi. radius of application well(s)
- Critical GW Area
- Regulated GW Area



WELLS WITHIN 1 MILE OF G 15157
 DO 253
 ID 62
 IM 2
 IR 47
 MO 170
 MU 2

PERMITTED WELLS WITHIN 1 MILE OF APPLICATION G 15157

\$RECNO	APPLICATION	PERMIT	LOC-QQ	USE	RATE	DIV-UNITS
1	U	127	U 121	2.00N12.00E25SESE IR	0.6700	C
1	U	219	U 385	2.00N12.00E25SESE IR	0.6680	C
2	U	222	U 294	2.00N12.00E36NWNW IR	0.3680	C
3	G	6945	G 6460	2.00N12.00E36SESW IR	0.3200	C
4	G	3	G 178	2.00N12.00E36NESW IC	0.2800	C
4	G	3	G 178	2.00N12.00E36NESW IR	0.1700	C
4	G	3	G 178	2.00N12.00E36NESW IS	0.1300	C
4	G	3961	G 3715	2.00N12.00E36NESW IR	0.1600	C
4	U	193	U 292	2.00N12.00E36NESW IR	0.4000	C
5	G	2232	G 2055	2.00N12.00E36NWSE IR	0.0400	C
5	U	162	U 156	2.00N12.00E36NWSE IR	0.1240	C
6	G	4030	G 3794	2.00N13.00E29NESW IR	0.0400	C
6	G	4030	G 3794	2.00N13.00E29NESW IS	0.0600	C
7	G	2307	G 2127	2.00N13.00E30NESW MU	0.3000	C
7	G	7447	G 6941	2.00N13.00E30NESW MU	0.7000	C
7	U	127	U 121	2.00N13.00E30NESW IR	0.6700	C
8	G	8869	G 8224	2.00N13.00E31NWNW IC	18.5000	G
9	G	33	G 294	2.00N13.00E32NENE MU	4.0000	C
9	U	203	U 184	2.00N13.00E32NENE IR	0.6600	C
9	U	203	U 184	2.00N13.00E32NENE IR	2.6800	C
10	G	12452	G 11399	2.00N13.00E31SENE IR	40.0000	G
11	U	106	U 100	2.00N13.00E32SWNE IR	0.0900	C
12	G	12452	G 11399	2.00N13.00E31SWNE IR	40.0000	G
13	U	34	U 29	2.00N13.00E32NWSE IR	0.0700	C
13	U	56	U 51	2.00N13.00E32NWSE IR	0.0800	C
13	U	57	U 52	2.00N13.00E32NWSE IR	0.0400	C
14	G	33	G 294	2.00N13.00E32NESE MU	4.0000	C
14	GR	1645	GR 4110	2.00N13.00E32NESE GD	500.0000	G
14	GR	1646	GR 4111	2.00N13.00E32NESE GD	300.0000	G
14	U	50	U 43	2.00N13.00E32NESE IR	0.0600	C
14	U	138	U 131	2.00N13.00E32NESE IR	0.0700	C
14	U	203	U 184	2.00N13.00E32NESE IR	0.5700	C
14	U	203	U 184	2.00N13.00E32NESE IR	0.6600	C
14	U	203	U 184	2.00N13.00E32NESE IR	1.6300	C
15	U	73	U 64	2.00N13.00E32SESE IR	0.0700	C
16	G	3226	G 2924	2.00N13.00E31SWSW IR	0.0550	C
17	G	9790	G 8960	1.00N12.00E 1SENE IR	0.1800	C
17	G	11715	G 10847	1.00N12.00E 1SENE IR	20.0000	G
17	G	11715	G 10847	1.00N12.00E 1SENE IR	76.0000	G
18	G	11440	G 10539	1.00N12.00E12SWNE IR	0.0600	C
19	G	9020	G 8365	1.00N12.00E12SENE IR	0.1500	C
20	G	3607	G 3393	1.00N12.00E12NWSW IR	0.0900	C
21	G	3226	G 2924	1.00N13.00E 6NWNW IR	0.0550	C
21	G	6556	G 6159	1.00N13.00E 6NWNW IS	0.0400	C
22	G	8922	G 8396	1.00N13.00E 6NWNW IR	0.0200	C
23	G	1158	G 990	1.00N13.00E 6NENE IR	0.0600	C
23	G	1158	G 990	1.00N13.00E 6NENE IR	0.0900	C
23	G	1689	G 1549	1.00N13.00E 6NENE IR	0.1100	C
23	G	1689	G 1549	1.00N13.00E 6NENE IR	0.1700	C
23	G	9066	G 8421	1.00N13.00E 6NENE IR	0.0330	C
23	G	9490	G 8899	1.00N13.00E 6NENE IR	0.0100	C
23	G	10300	G 9446	1.00N13.00E 6NENE IR	0.0200	C
23	G	10300	G 9446	1.00N13.00E 6NENE IR	0.0800	C
24	G	9555	G 8900	1.00N13.00E 5NWNW GD	0.0700	C
25	U	64	U 56	1.00N13.00E 4NWNW IR	1.0000	C
26	G	11485	G 10616	1.00N13.00E 6SESW IR	0.0600	C