### WATER RESOURCES DEPARTMENT **MEMO** Date: August 13, 2008 TO: Application: G-17058 FROM: GW: K. Lite (Reviewer's Name) SUBJECT: Scenic Waterway Interference & General/Local Surface Water Evaluation for Deschutes Ground Water Study Area The source of appropriation is within or above the Deschutes Scenic Waterway. Use the Scenic Waterway condition (Condition 7J). PREPONDERANCE OF EVIDENCE FINDING UNDER ORS 390.835: Department has found that there is a preponderance of evidence that the proposed use of ground water will measurably reduce the surface water flows necessary to maintain the free-flowing character of the Scenic Waterway in quantities necessary for recreation, fish and wildlife. LOCALIZED IMPACT FINDING X The proposed use of ground water will have a localized impact to surface water in the Whychus River/Creek Subbasin.

If the localized impact box above is not checked, then the water use under any right issued pursuant to this application is presumed to have a general (regional) impact on surface water. Mitigation of the impact, originating anywhere within the Deschutes Basin above the Madras gage, will be required before a permit may be issued for the proposed use.

If the localized impact box above is checked, then the water use under any right issued pursuant to this application is presumed to have a localized impact on surface water

issued for the proposed use.

within the identified subbasin. Mitigation of the impact, originating from within the Local Zone of Impact identified by the Department, will be required before a permit may be

## PUBLIC INTEREST REVIEW FOR GROUND WATER APPLICATIONS

| TO:                                |  | Wate  | r Rights S                              |  |                                      |   | Date                 | e                     | 8/13/200                 | 8               |   |                     |                       |                       |  |
|------------------------------------|--|---|---|--|--------------------------------------|---|----------------------|-----------------------|--------------------------|-----------------|---|---------------------|-----------------------|-----------------------|--|
| FROM                               | [:   | Grou  | nd Water/                               | Hydrology S  | Section                              | K. Li   | te                   |                       |                          |                 |   |                     |                       |                       |  |
| SUBJE                              | ECT:   |   |   | 17058  |                                      | Reviewer's Name Supersedes review of  Date of Review(s) |                      |                       |                          |                 |   |                     |                       |                       |  |
| DHDY                               | IC INT   | EDECT                                       | r ddreii                                | MDTION.  | CDATING                              | DWATE   | D                    |                       |                          |                 |   |                     | (0)                   |                       |  |
| OAR 6<br>welfare<br>to deter       | <b>90-310-1</b><br>, <i>safety a</i><br>mine who | 30 (1) and heal ether the                   | The Depart<br>th as descr<br>e presumpt | MPTION; of ment shall problem in ORS stabilistics in its establistics with the ment of the | esume that<br>537.525. D<br>hed. OAR | t a propos<br>epartment<br>690-310-                     | ed g<br>t sta<br>140 | ff review allows th   | ground watene proposed   | er app<br>use b | olications u<br>e modified  | nder OA<br>or condi | R 690-31<br>tioned to | 0-140<br>meet         |  |
| A. <u>GE</u>                       | NERAL  | INFO  | RMATIC                                  | <u>ON</u> : Ap   | plicant's N                          | lame:   | Cit                  | y of Sis              | ters                     |                 |   | County:             | Deschu                | tes                   |  |
| A1.                                | Applica  | nt(s) se                                    | ek(s) <u>2.0</u>                        | cfs from   | 4                                    | well(   | (s) i                | n the                 | Deschutes                |                 |   |                     |                       | _ Basin,              |  |
|                                    |  | Whych                                       | us Creek                                |  |                                      | subb  | asin                 | Qu:                   | ad Map: Si               | isters          |   |                     |                       |                       |  |
| A2.<br>A3.                         |  |   | Mu<br>er data (att                      | unicipal<br>ach and nun  |                                      |   |                      |                       | January 1<br>rk proposed |                 |   |                     | gid):                 |                       |  |
| Well                               | Log  | id  | Applicant<br>Well #                     |  | posed<br>uifer*                      | Propose<br>Rate(cf                                      |                      | ı                     | Location<br>/R-S QQ-Q)   |                 |   | i, 1200' E          | fr NW cor             | · S 36                |  |
| 1                                  | Desc 3   |   | 1                                       |  | es Lavas                             | 2.0   |                      |                       | 5/10E-9BBA               |                 |   | S, 650' E           |                       |                       |  |
| 3                                  | Desc 1   |   | 3                                       |  | le Lavas<br>es Lavas                 | 2.0   |                      |                       | 5/10E-5CBD<br>5/10E-4BDA |                 | 1335'N, 1210' E fr SW cor, S 5<br>1890' S, 2325' E fr NW cor, S 4 |                     |                       |                       |  |
| 4                                  | Not y  | yet   | 4                                       | _  | es Lavas                             | 2.0   |                      |                       | S/10E-8CCD               |                 |   | , 1125' E           |                       |                       |  |
| 5<br>* Alluwi                      | um, CRB,   | Dadrool                                     | ,                                       |  |                                      |   |                      |                       |                          |                 |   |                     |                       |                       |  |
| Alluvi                             |  |   |   |  |                                      |   |                      |                       |                          |                 |   |                     |                       |                       |  |
| Well                               | Well<br>Elev                                     | First<br>Water                              | SWL                                     | SWL  | Well<br>Depth                        | Seal<br>Interval  |                      |                       |                          | I               |   |                     | Draw<br>Down          | Test                  |  |
|                                    | ft msl   | ft bls                                      | ft bls                                  | Date   | (ft)                                 | (ft)  |                      | (ft)                  | (ft)                     |                 | (ft)  | (gpm)               | (ft)                  | Туре                  |  |
| 1                                  | 3195   | 105   | 85                                      | 10/2/1975  | 211                                  | 40  | _                    | 2-111                 |                          |                 | 195   | 902                 | 7.0                   | P                     |  |
| 3                                  | 3205<br>3170                                     | 105<br>160                                  | 73.3                                    | 7/31/1991<br>2/2/2007  | 302<br>293                           | 39<br>195   |                      | 1 <u>-39</u><br>2-195 | +1-302<br>268-283        |                 | -302<br>-268  | 1200<br>1500        | 1.5                   | P<br>P                |  |
| 4                                  | 3250   | 100   | /3.3                                    | 2/2/2007   | 300                                  | 200   | 20                   |                       | 200-203                  | 100             | -200  | 1500                | 1.5                   | r                     |  |
| •                                  | 0200   |   |   |  |                                      | (prop)  |                      |                       |                          |                 |   |                     |                       |                       |  |
| Has data                           |  | liaatian                                    | for proposed                            | d availa   |                                      |   |                      |                       |                          |                 | _   |                     |                       |                       |  |
| A4.<br><u>OUTW</u><br>GROU<br>GROU | Commo<br>ASH M.<br>ND-WA'<br>ND WA'              | ents: <u>W</u><br>ATERI<br>TER L<br>TER / S | ELLS AR AL. GRO EVEL AP                 | E/WILL BE<br>UND-WATI<br>PEARS TO I<br>WATER IN  | ER FLOW<br>BE BELO                   | <u>IS TOW</u><br>W NEAR                                 | AR<br>ES             | DS IND<br>Γ REAC      | IAN FORD<br>HES. THE     | AND<br>CLC      | WHYCH<br>SEST DO  | US CRE              | EKS.<br>ADIENT        | <u>r</u><br><u>e,</u> |  |
| <u>ADJAC</u>                       | CENT TO  | O WHY                                       | CHUS CI                                 | REEK.  | _                                    |   |                      |                       |                          |                 |   | 2                   |                       |                       |  |
|                                    |  |   |   |  |                                      |   |                      | _                     |                          |                 |   |                     |                       |                       |  |
| A5. 🛚                              | (Not al  | l basin r                                   | ules contai                             | utes<br>ater hydraulic<br>n such provis<br>SGS Study A   | ions.)                               |   |                      |                       |                          |                 |   |                     |                       |                       |  |
| A6. 🗌                              | Name of  | of admin                                    | iistrative ar                           | rea:,  |                                      |   |                      |                       |                          | er lin          | nited by an   | administ            | rative res            | striction.            |  |

#### B. GROUND WATER AVAILABILITY CONSIDERATIONS, OAR 690-310-130, 400-010, 410-0070

| Bas                         | sed upon available data, I have determined that ground water* for the proposed use:   |
|-----------------------------|---|
| a.                          | is over appropriated, ⊠ is not over appropriated, or □ cannot be determined to be over appropriated during any period of the proposed use. * This finding is limited to the ground water portion of the over-appropriation determination as prescribed in OAR 690-310-130;  |
| b.                          | ☐ will not or ☐ will likely be available in the amounts requested without injury to prior water rights. * This finding is limited to the ground water portion of the injury determination as prescribed in OAR 690-310-130;   |
| c.                          | $\square$ will not or $\square$ will likely to be available within the capacity of the ground water resource; or  |
| d.                          | will, if properly conditioned, avoid injury to existing ground water rights or to the ground water resource:  i.   The permit should contain condition #(s) 7B, 7N  ii.   The permit should be conditioned as indicated in item 2 below.  iii.   The permit should contain special condition(s) as indicated in item 3 below;   |
| a.                          | Condition to allow ground water production from no deeper than ft. below land surface;  |
| b.                          | Condition to allow ground water production from no shallower than ft. below land surface;   |
| c.                          | Condition to allow ground water production only from the ground water reservoir between approximately ft. and ft. below land surface;   |
| d.                          | <ul> <li>Well reconstruction is necessary to accomplish one or more of the above conditions. The problems that are likely to occur with this use and without reconstructing are cited below. Without reconstruction, I recommend withholding issuance of the permit until evidence of well reconstruction is filed with the Department and approved by the Ground Water Section.</li> <li>Describe injury —as related to water availability—that is likely to occur without well reconstruction (interference w/senior water rights, not within the capacity of the resource, etc):</li> </ul>                              |
|                             | senior water rights, not within the capacity of the resource, etc).   |
|                             |   |
| EQ<br>TH<br>AM<br>FEI<br>AB | ound water availability remarks:THE NEAREST STATE OBSERVATION WELL IS OBS WELL 116 ESC 3016), ABOUT 0.4 MILES TO THE NORTHWEST OF POA #1. IT HAS BEEN MONITORED RIODICALLY SINCE 1962. STATE OBSERVATION WELL 116 APPEARS TO BE IN DYNAMIC OUILIBRIUM. THE LONG-TERM TREND SHOWS A DECADAL-SCALE WATER LEVEL FLUCTUATION (AT IS COINCIDENT WITH CLIMATE CYCLES. THE DECADAL FLUCTUATION HAS A MAXIMUM (IPLITUDE OF APPROXIMATELY 20- FEET. SINCE 2000, THE WATER LEVEL HAS DROPPED ABOUT 19 ET, AS A RESULT OF DECREASED RECHARGE. HOWEVER, THE WATER-LEVEL HAS RECOVERED OUT 6 FEET SINCE 2006, DUE TO INCREASED RECHARGE. |
|                             | A #3 IS IN CLOSE PROXIMITY TO SEVERAL OTHER USERS. HOWEVER, SHORT-TERM MONITORING NEARBY WELLS DURING PUMP (STEP DRAWDOWN) TESTING OF THE APPLICANT'S WELL (1500-   |
|                             |   |
|                             | NEARBY WELLS DURING PUMP (STEP DRAWDOWN) TESTING OF THE APPLICANT'S WELL (1500-   |
|                             | NEARBY WELLS DURING PUMP (STEP DRAWDOWN) TESTING OF THE APPLICANT'S WELL (1500-   |

Well

C2.

Unconfined

#### C. GROUND WATER/SURFACE WATER CONSIDERATIONS, OAR 690-09-040

Aquifer or Proposed Aquifer

| C1. | 690-09 <b>-</b> 040 ( | (1) | : | Evaluation | of | aquifer | confinement | t: |
|-----|-----------------------|-----|---|------------|----|---------|-------------|----|
|-----|-----------------------|-----|---|------------|----|---------|-------------|----|

Water Availability Basin the well(s) are located within:\_

| sis for | r aquifer (     | confinement evaluation:  |               |              |              |        |         |             |                      |               |
|---------|-----------------|--|---------------|--------------|--------------|--------|---------|-------------|----------------------|---------------|
| orizon  | tal distanc     | Evaluation of distance to, an e less than ¼ mile from a surf draulically connected to the su | ace water sou | irce that pi | roduce water | from a | n uncon | fined aquit | fer shall be         | mil           |
| nat are | evaluated<br>SW | for PSI.   | GW            | SW           | Distance     | I      |         |             | Potenti<br>Subst. Ir | ial f         |
|         | evaluated       |  |               |              |              | F      | Connec  |             |                      | ial f         |
| at are  | evaluated<br>SW | for PSI.   | GW<br>Elev    | SW<br>Elev   | Distance     | F      | Connec  | ted?        | Subst. In            | ial f         |
| at are  | evaluated<br>SW | for PSI.   | GW<br>Elev    | SW<br>Elev   | Distance     | F      | Connec  | ted?        | Subst. In            | ial f         |
| at are  | evaluated<br>SW | for PSI.   | GW<br>Elev    | SW<br>Elev   | Distance     | F      | Connec  | ted?        | Subst. In            | ial f         |
| at are  | evaluated<br>SW | for PSI.   | GW<br>Elev    | SW<br>Elev   | Distance     | F      | Connec  | ted?        | Subst. In            | ial f         |
| at are  | evaluated<br>SW | for PSI.   | GW<br>Elev    | SW<br>Elev   | Distance     | F      | Connec  | ted?        | Subst. In            | ial f         |
| nat are | evaluated<br>SW | for PSI.   | GW<br>Elev    | SW<br>Elev   | Distance     | F      | Connec  | ted?        | Subst. In            | ial f<br>nter |
| nat are | evaluated<br>SW | for PSI.   | GW<br>Elev    | SW<br>Elev   | Distance     | F      | Connec  | ted?        | Subst. In            | ial f         |
| nat are | evaluated<br>SW | for PSI.   | GW<br>Elev    | SW<br>Elev   | Distance     | F      | Connec  | ted?        | Subst. In            | ial f<br>nter |

Confined

C3a. 690-09-040 (4): Evaluation of stream impacts for each well that has been determined or assumed to be hydraulically connected and less than 1 mile from a surface water source. Limit evaluation to instream rights and minimum stream flows that are pertinent to that surface water source, and not lower SW sources to which the stream under evaluation is tributary. Compare the requested rate against the 1% of 80% natural flow for the pertinent Water Availability Basin (WAB). If Q is not distributed by well, use full rate for each well. Any checked box indicates the well is assumed to have the potential to cause PSI.

| Well | SW<br># | Well < 1/4 mile? | Qw > 5 cfs? | Instream<br>Water<br>Right<br>ID | Instream<br>Water<br>Right Q<br>(cfs) | Qw><br>1%<br>ISWR? | 80%<br>Natural<br>Flow<br>(cfs) | Qw > 1%<br>of 80%<br>Natural<br>Flow? | Interference<br>@ 30 days<br>(%) | Potential<br>for Subst.<br>Interfer.<br>Assumed? |
|------|---------|------------------|-------------|----------------------------------|---------------------------------------|--------------------|---------------------------------|---------------------------------------|----------------------------------|--|
|      |         |                  |             |                                  |                                       |                    |                                 |                                       |                                  |  |
|      |         |                  |             |                                  |                                       |                    |                                 |                                       |                                  |  |
|      |         |                  |             |                                  |                                       |                    |                                 |                                       |                                  |  |
|      |         |                  |             |                                  |                                       |                    |                                 |                                       |                                  |  |
|      |         |                  |             |                                  |                                       |                    |                                 |                                       |                                  |  |
|      |         |                  |             |                                  |                                       |                    | _                               |                                       |                                  |  |
|      |         |                  |             |                                  |                                       |                    |                                 |                                       |                                  |  |
|      |         |                  |             |                                  |                                       |                    |                                 |                                       |                                  |  |
|      |         |                  |             |                                  |                                       |                    | _                               |                                       |                                  | - 00/15/2002                                     |

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C3b. 690-09-040 (4): Evaluation of stream impacts by total appropriation for all wells determined or assumed to be hydraulically connected and less than 1 mile from a surface water source. Complete only if Q is distributed among wells. Otherwise same evaluation and limitations apply as in C3a above.

| evaluation and | d limitations | apply as    | in C3a abov                      | e.                                    |                     |                                 |                                       |                                  |  |
|----------------|---------------|-------------|----------------------------------|---------------------------------------|---------------------|---------------------------------|---------------------------------------|----------------------------------|--|
| SW<br>#        |               | Qw > 5 cfs? | Instream<br>Water<br>Right<br>ID | Instream<br>Water<br>Right Q<br>(cfs) | Qw ><br>1%<br>ISWR? | 80%<br>Natural<br>Flow<br>(cfs) | Qw > 1%<br>of 80%<br>Natural<br>Flow? | Interference<br>@ 30 days<br>(%) | Potential<br>for Subst.<br>Interfer.<br>Assumed? |
|                |               |             |                                  |                                       |                     | . ,                             |                                       |                                  |  |
|                |               |             |                                  |                                       |                     |                                 |                                       |                                  |  |
|                |               |             |                                  |                                       |                     |                                 |                                       |                                  |  |
|                |               |             |                                  |                                       |                     |                                 |                                       |                                  |  |
| Comments:      |               |             |                                  |                                       |                     |                                 |                                       |                                  |  |
|                |               |             |                                  |                                       |                     |                                 |                                       |                                  |  |

C4a. 690-09-040 (5): Estimated impacts on hydraulically connected surface water sources greater than one mile as a percentage of the proposed pumping rate. Limit evaluation to the effects that will occur up to one year after pumping begins. This table encompasses the considerations required by 09-040 (5)(a), (b), (c) and (d), which are not included on this form. Use additional sheets if calculated flows from more than one WAB are required.

|                              | istributed   | Wells |     |     |     |     |          |     |     |     |     |     |     |
|------------------------------|--------------|-------|-----|-----|-----|-----|----------|-----|-----|-----|-----|-----|-----|
| Well                         | SW#          | Jan   | Feb | Mar | Apr | May | Jun      | Jul | Aug | Sep | Oct | Nov | Dec |
|                              |              | %     | %   | %   | %   | %   | %        | %   | %   | %   | %   | %   | %   |
| Well Q                       | as CFS       |       |     |     |     |     |          |     |     |     |     |     |     |
| Interfer                     | ence CFS     |       |     |     |     |     |          |     |     |     |     |     |     |
|                              |              |       |     |     |     |     |          |     | _   |     |     |     |     |
|                              | outed Well   |       | ~ . |     |     |     | _        | ٠.  |     | ~   |     |     | _   |
| Well                         | SW#_         | Jan   | Feb | Mar | Apr | May | Jun      | Jul | Aug | Sep | Oct | Nov | Dec |
|                              |              | %     | %   | %   | %   | %   | <u>%</u> | %   | %   | %   | %   | %   | %   |
| Well Q                       |              |       |     |     |     |     |          |     |     |     | _   |     |     |
| Interfer                     | ence CFS     |       |     |     |     |     |          |     |     |     |     |     |     |
|                              |              | %     | %   | %   | %   | %   | %        | %   | %   | %   | %   | %   | %   |
| Well Q                       |              |       |     |     |     |     |          |     |     |     |     |     |     |
| Interfer                     | ence CFS     |       |     |     |     |     |          |     |     |     |     |     |     |
|                              |              | %     | %   | %   | %   | %   | %        | %   | %   | %   | %   | %   | %   |
| Well Q                       | as CFS       |       |     |     |     |     |          |     |     |     |     |     |     |
| Interfer                     | ence CFS     |       |     |     |     |     |          |     |     |     |     |     |     |
|                              |              | %     | %   | %   | %   | %   | %        | %   | %   | %   | %   | %   | %   |
| Well Q                       | as CFS       |       |     |     |     |     |          |     |     |     |     |     |     |
| Interfer                     | ence CFS     |       |     |     |     |     |          |     |     |     |     |     |     |
|                              |              | %     | %   | %   | %   | %   | %        | %   | %   | %   | %   | %   | %   |
| Well Q                       | as CFS       |       |     |     |     |     |          |     |     |     |     |     |     |
| Interfer                     | ence CFS     |       |     |     |     |     |          |     |     |     |     |     |     |
|                              |              | %     | %   | %   | %   | %   | %        | %   | %   | %   | %   | %   | %   |
| Well Q                       | as CFS       |       |     |     |     |     |          |     |     |     |     |     |     |
| Interfer                     | ence CFS     |       |     |     |     |     |          |     |     |     |     |     |     |
|                              |              |       |     |     |     |     |          |     |     |     |     | -   |     |
| $(\mathbf{A}) = \mathbf{T}0$ | otal Interf. |       |     |     |     |     |          |     |     |     |     |     |     |
| (B) = 80                     | % Nat. Q     |       |     |     |     |     |          |     |     |     |     |     |     |
| (C) = 1                      | % Nat. Q     |       |     |     |     |     |          |     |     |     |     |     |     |
| 7.0FW                        |              |       |     |     |     |     |          |     |     |     |     |     |     |
| $(\mathbf{D}) = (A$          | (C)          | V.    | V . | V   | V   | V   | 1        | V . | 1   | 1   |     |     |     |
| (E) = (A                     | / B) x 100   | %     | %   | %   | %   | %   | %        | %   | %   | %   | %   | %   | %   |

(A) = total interference as CFS; (B) = WAB calculated natural flow at 80% exceed. as CFS; (C) = 1% of calculated natural flow at 80% exceed. as CFS; (D) = highlight the checkmark for each month where (A) is greater than (C); (E) = total interference divided by 80% flow as percentage.

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| asis for impact evaluation:  |
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|  |
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|  |
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|  |
| 690-09-040 (5) (b) The potential to impair or detrimentally affect the public interest is to be determined by the Wat<br>Rights Section.   |
| Aights Section.  |
| If properly conditioned, the surface water source(s) can be adequately protected from interference, and/or ground water use under this permit can be regulated if it is found to substantially interfere with surface water:  i.   The permit should contain condition #(s)  |
| ii. The permit should contain special condition(s) as indicated in "Remarks" below;  |
| / GW Remarks and Conditions  |
| 7 GW Remarks and Conditions  |
| TE: REGIONAL GROUND WATER FLOW IS NORTHEAST TOWARDS THE REGIONAL DOWN-GRADIENT SCHARGE AREA (WHYCHUS CREEK) ABOUT 1.8 MILES FROM THE NEAREST POA (POA #3). HOWEVER GIONAL GROUND WATER LEVELS IN THE SISTERS AREA INDICATE THAT SOME GROUND WATER MPING INFLUENCES FROM THE PROPOSED USE WILL ALSO LIKELY IMPACT GROUND WATER SCHARGE TO THE HEADWATER SPRINGS FOR THE METOLIUS. |
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|  |
|  |
| Gerences Used: USGS WRIR 00-4162; WRIR 02-4015; OWRD STATE OBSERVATION WELL DATA (OBS WEL  |
|  |
| ); APPL. FILE G-17058; CONSULTANT PUMP TEST EVALUATION REPORT (MARCH 17, 2007); WELL   |
|  |
| ); APPL. FILE G-17058; CONSULTANT PUMP TEST EVALUATION REPORT (MARCH 17, 2007); WELL   |
| ); APPL. FILE G-17058; CONSULTANT PUMP TEST EVALUATION REPORT (MARCH 17, 2007); WELL   |
|  |

Application G-17058 continued

Date 8/13/2008

# D. <u>WELL CONSTRUCTION</u>, OAR 690-200

| D1. |      | Well #:  | Logid:   |
|-----|------|----------|--|
| D2. |      | a.       | ELL does not meet current well construction standards based upon: review of the well log; field inspection by report of CWRE other: (specify)  |
| D3. |      | a.       | ELL construction deficiency: constitutes a health threat under Division 200 rules; commingles water from more than one ground water reservoir; permits the loss of artesian head; permits the de-watering of one or more ground water reservoirs; other: (specify) |
| D4. |      | THE W    | ELL construction deficiency is described as follows:   |
|     |      |          |  |
|     |      |          |  |
| D5. |      | THE W    | <ul> <li>a.  was, or was not constructed according to the standards in effect at the time of original construction or most recent modification.</li> <li>b.  don't know if it met standards at the time of construction.</li> </ul>                                |
| D6. |      |          | o the Enforcement Section. I recommend withholding issuance of the permit until evidence of well reconstruction with the Department and approved by the Enforcement Section and the Ground Water Section.  |
| TH  | IS S | ECTIO    | N TO BE COMPLETED BY ENFORCEMENT PERSONNEL   |
| D7. |      | Well con | nstruction deficiency has been corrected by the following actions:   |
|     |      |          |  |
|     |      |          |  |
|     |      |          |  |
|     |      |          |  |
|     |      |          | (Enforcement Section Signature) , 200  |
| Do  |      | m        |  |
| D8. |      | Koute t  | o Water Rights Section (attach well reconstruction logs to this page).   |

G-17058: Sisters Quadrangle

