

Hydrogeologic Database Search Results, Description of Data Fields

This document describes the data report generated by the Island County Hydrogeologic Database search mechanism.

A listing of the fields and their meanings follows an example of such a report.

HYDROGEOLOGIC DATABASE Circular Search TestSearch Center = Well# ABC Radius = 1/2 Mile

*** Location Accuracy:**

0 = TRS

1 = Parcel

2 = DGPS

" " = Unknown

<u>ID</u>	<u>TRS¹</u>	<u>Owner Name</u>	<u>Well Address</u>	<u>Driller Name</u>	<u>Drill Date</u>	<u>-LS Alt- Rpt Calc</u>	<u>-Depth- Well Hole</u>	<u>-Elev- TD WL</u>	<u>Avail DDN</u>	<u>----Max---- O CL NO3</u>	<u>----Num---- Chm Geo WL</u>	<u>Loc Acc*</u>
ABC	31N/01E-11G	Jane & John Doe	123 Fourth Street	Hayes Drilling,	10/17/91	190	180 180	10 57	46	15	10 1	
ABD	31N/01E-11F	Janet & Johnny Dohe	125 Fourth Street	Hayes Drilling,	11/18/92	200 192	185 210	7 52	44	10 45 0.2	2 0 1	

Seawater Intrusion Rating

'LOW' Risk

Generated by the Island County Hydrogeologic Database on 4/6/99

1 records printed

Disclaimer: Data presented has been collected from a variety of sources. Island County makes no guarantee as to the validity or accuracy of this data. Please report any errors to the Island County Hydrogeologist

<u>Field</u>	<u>Full Name</u>	<u>Description</u>
ID	Site ID	Internal Field that links data in various tables. It also is a key used when mapping locations.
TRS¹	Township/Range-Section	Well coordinates in the Township Range Section system. This field can optionally display other information such as
Dist From Center		Distance from Center Distance from the center of the search in feet. TRS or Dist From Center may be displayed but not both
Parcel		Parcel number where well is located.
Parcel Owner		Owner of Parcel where well is located.
PWS ID / Src		DOH Public Water System ID, and Source Number.
PWS Name		Name of Public Water System to which the well is associated.
Site Type		Well, Well w/in Wellfield, Wellfield, Spring, Lake, or Marine Water
Owner Name	same	The name of the well owner as supplied with the original Water Well Report. The listed owner may no longer own this property
Well Address	same	The address of the well as listed on the Water Well Report. If no address was listed, and this well has been located to a parcel then the parcel address may be listed in the field if one exists for this parcel.
Driller Name	same	The name of the drilling firm that installed this well.
Drill Date	same	The date the well was completed

-LS Alt- Rpt Calc	Land Surface Altitude Reported Calculated	The following two fields apply to the Land Surface Altitude, in feet MSL (above Mean Sea Level) The well drillers reported elevation of the land surface at the well. This field is often omitted by well drillers. The calculated elevation of the land surface at the well. This field is automatically calculated for all wells that have valid XY coordinates listed based on a DEM (digital elevation model) for Island County.
-Depth- Well Hole	same Well Depth Total Drilled Hole Depth	The following two fields apply to a depth measurement, in feet below the top of the well casing. The depth of the completed well. The total depth drilled, may be greater than the completion depth.
-Elev- TD WL	Elevation Total Depth Water Level	The following two fields apply to an elevation measurement, in feet MSL (above Mean Sea Level) The calculated elevation of the bottom of the well. = calculated as (LS Alt) minus (Well Depth) The calculated elevation of the average water level. = calculated as (LS Alt) minus (Average Water Level (Depth to Water))
Avail DDN	Available Drawdown	The amount of available drawdown for the well. = Depth Well – Average Water Level
----Max---- Q CL NO3	same Well Discharge Chloride Nitrate	The following three fields apply to the maximum amount of the given parameter in our database The maximum discharge measurement (flow rate) listed in our database for this well. The maximum chloride concentration listed in our database for this well. The maximum nitrate concentration listed in our database for this well.
----Num---- Chm Geo WL	Number of Datapoints Chemistry Geological Intervals Water Levels	The following three fields apply to the number of data points for the given parameter in our database The number of chemical samples listed in our database for this well. The number of geological (stratigraphic) units described in the drillers log for this well. The number of water levels (and date/times) listed in our database for this well.
Loc Acc*	Locational Accuracy	The method used to determine the location (XY, WA State Plane North) for the well. Code descriptions are as follows: 0 = Location derived from the Township Range Section given by the well driller. 1 = Location derived from the parcel location. 2 = Location derived by DGPS (Differential Global Positioning System (Satellites)). blank = Location derived prior to tracking Location Source.

In all fields, a blank indicates that no data is available for that field, and that well. In addition to the fields listed for each well within the search area, if the search was performed as a circular search around a point then the computer will calculate the Seawater Intrusion Risk for that point. This rating corresponds to the rating system utilized by Island County as described in the Island County Seawater Intrusion Policy. Ratings are calculated based on the available chloride data for wells located within ½ mile of the center point of the search. If the maximum chloride concentration within ½ mile of the search center is less than 100 mg/l then the intrusion risk rating is LOW. If the maximum is between 100 and 200 mg/l then the intrusion risk is MEDIUM, if greater than 200 mg/l then the risk is HIGH. Depending on the search radius, wells used in the calculation of Intrusion Risk may differ from those displayed.