## 2008

# GROUNDWATER RESOURCE PROTECTION PLAN



**RESORT MUNICIPALITY OF WHISTLER** 

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**DECEMBER 2008** 

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#### 1 Introduction

#### 1.1 Background

The Resort Municipality of Whistler (RMOW) is a year-round destination resort located in the Coastal Mountains of British Columbia. Because Whistler is a resort, with visitor numbers largely influenced by seasonal weather conditions, the RMOW has an extremely variable population that changes dramatically. The population that is served by the RMOW water utility can vary from the baseline resident population of 9,600 during poor weather or shoulder season periods, up to 50,000 or more during a peak-season event.

The RMOW water utility is committed to a program of continuing improvement. The major improvement effort at this time is a shift toward the increased use of new, safe, reliable groundwater supply sources. At this time, approximately 46% of the potable drinking water for the Resort Community comes from 12 groundwater supply wells drawing from aquifers lying within the RMOW municipal boundaries. The remaining amount is supplied from various surface water sources. The proportion of groundwater use within the utility will change significantly with the commissioning of two new groundwater supply sources in the near future.

#### 1.2 Whistler 2020

"Whistler 2020" is the Resort Municipality of Whistler's primary guiding policy document. This all-encompassing community planning statement addresses the many facets of maintaining a healthy resort community, in a sustainable manner. The "Whistler 2020" summary "Descriptions of Success" are attached as Appendix "C". As can be seen from the section headed "Water", our commitment to provide excellence in water quality is clearly ingrained in our community direction.

#### Excerpt from "Whistler 2020" – Descriptions Of Success

"Whistler's potable water supply system delivers water of excellent quality, which meets or exceeds all relevant health standards, and meets benchmark aesthetic standards whenever possible".

#### 1.3 Objectives and Scope

This Groundwater Resource Protection Plan ("the Plan") provides the framework for the initialisation of a program of measures that will lead to enhanced protection of the quantity and quality of groundwater used within our Resort Community. The primary objectives of this plan are to ensure that exposure to unacceptable concentrations of contaminants in drinking water are minimised, to implement procedures and policies that will support the long-term sustainability of the groundwater resource, and to maintain public confidence in Whistler's drinking water quality.

Protection of groundwater resources will be achieved by identifying existing pollution risks within well protection areas (WPAs). The potential for future contamination will be minimized by recommending one or more management options to address those risks. Those options may include amendments to our community planning processes, raising public awareness and fostering community support regarding the need for stewardship of groundwater resources, preparation of contingency plans to ensure appropriate response to any potential contamination events, and ongoing monitoring within the WPA.

This Plan is intended to be a "living" document, evolving to reflect policy changes, input from stakeholders, new information on aquifer conditions or contamination events, and new or planned activities within the WPAs. To facilitate stakeholder involvement, a Planning Team will be formed to guide the execution of the elements of this Plan. This Plan provides the framework that will assemble the Planning Team, and it will set in motion the required mechanisms and processes that will trigger the implementation of the many components of a complete groundwater resource protection system. When formed, the Planning Team will provide input to the RMOW on the ongoing implementation and the annual review and amendments to this Plan.

#### **1.4 Council's Commitment of Support**

At the Special Council Meeting of June 19<sup>th</sup>, 2008, Council directed staff to complete this Plan. This Plan represents the fulfilment of that commitment to Council, and the Community.

#### Excerpt from the Special Council Meeting of June 19th, 2008:

"That Council direct staff to complete the Community-Wide Aquifer Protection Plan and submit it for approval to the Drinking Water Officer, as required under the conditions of our Waterworks Operating Permit, pursuant to the Drinking Water Protection Act, within six months of this resolution".

#### 1.5 Plan Framework

Preparation of this Plan has generally followed methods recommended in the "Well Protection Toolkit" developed by the Province of British Columbia in 2000 as a guide to assist water purveyors and communities on how to develop and implement a well protection plan. Following that general framework, this Plan has been organised into the following sections:

Section 1	Introduction
Section 2	Wellhead Protection Areas
Section 3	Groundwater Pollution Areas of Concern
Section 4	Proposed Management Options
Section 5	Contingency and Spill Response Plans
Section 6	Water Quality Monitoring
Section 7	Planning Team – Terms of Reference and Procedures
Section 8	Implementation Schedule

Throughout this Plan, you will notice text boxes that identify the tasks to be completed, and the projected completion time-line. The completion time-line is expressed in quarters, with the year of completion below the quarter. These tasks are summarized in Section 8.

#### 2 Well Protection Areas

#### 2.1 Introduction

In the context of this Plan, the term "Well Protection Area" (WPA) refers to the area that should be managed and protected from potential contamination to ensure protection of water quality and long-term sustainability of the groundwater supply. The process of determining the extents of the WPAs involved an evaluation of the properties of the aquifer from which the supply wells extract groundwater, in some cases estimating the capture zone and time-of-travel for groundwater within the aquifer to reach the well(s), and then designating an overall area to be protected on the basis of this information.

The WPA's identified in this section, have been determined using a vast amount of acquired information and study within our community. Piteau Associates, working on behalf of the RMOW, is currently working to complete the document entitled "Capture Zone Assessment and Survey of Potential Groundwater Pollution Hazards for Whistler B.C.". That document will contain the supporting information related to the establishment of the WPAs identified in this Plan.

Task No.	<u>Description</u>	<u>Completion</u>
1	Complete the report entitled "Capture Zone Assessment and Survey of Potential Groundwater Pollution Hazards for Whistler B.C."	Q-1 2009

#### 2.2 Aquifers and Wells

Aquifers from which RMOW supply wells draw groundwater are depicted on Fig. 1. These aquifers comprise complex and locally variable post-glacial alluvial fans and valley fill sediments. The locations of these production wells are also depicted on Fig. 1. Completed Well Assessment Forms are included with Appendix 'D', and well details are summarised in Table 1 below. Including new wells expected to come on line in the near future, Whistler utilises 14 wells drawing from five aquifers.

Location	Date Drilled	Casing Diameter	Screen Interval	Static Level <sup>(1)</sup>	Rated Well Capacity	Surface Installation <sup>(2)</sup>	MWLAP Aquifer
		(mm)	(m)	(m bgl)	(L/s)		No.
Emerald Estates							
• W201-1	1979	200	11.6 - 14.9	6.06	14.2	UC	390
• W201-2	1999	200	16.5 - 18.9	4.72	10.7	PA	"
• W201-3	2000	300	8.9 - 15.2	2.21	31.6	PA	"
Alpine Meadows							
• W202	1979	250	10 - 19.5	4.6	34.7	PH	388
• W210	1994	200	14.3 - 18.9	3.8	22.1	PH	"
• W213	1999	200	42.1 - 46.6	flowing	18.9	PA	"
Whistler Community (Village)							
• W205-1	1978	200	23.0 - 28.0	11.6	27.0	PA	387
• W205-2	1980	250	16.3 - 21.3	7.2	37.9+	PA	"
• W205-3	1982	300	14.4 - 17.6	7.2	20.5	PA	"
• W211	2000	250	15.8 - 18.8	6.9	18.0	PA	"
Rainbow Park							
•W218 (note 3)	2007	400	24.0 - 28.7	flowing	74	PA	N/A
Function Junction							
• W212-1	2000	400	10.6 – 19.8	4.54	41	PA	395
• W212-2	1999	200	13.9 – 18.6	4.2	33	PH	395
• W217 (note 3)	2008	400	17.4 - 20.4	8.60	74	PA	395

Static water level as reported on well log, expressed in metres below ground level.

<u>Table 1 – Summary of RMOW Water Supply Wells</u>

The Van West Waterworks Utility services the community of Function Junction from two wells (1-79 and 3-96) near Miller Creek Road in Function Junction. Although recommendations for well and aquifer protection planning included in this report are to some degree protective of the Van West wells at Function Junction, these wells are not covered within this Plan.

#### 2.3 Recommended Well Protection Areas

Based on their current understanding of the five aquifers that are utilised as sources of potable water at Whistler, Piteau Associates have recommended the extent of WPAs. These are depicted on Fig. 1. In all cases the recommended protection areas cover more land than suggested by well

<sup>2</sup> UC = Underground chamber; PA = Pitless adapter; PH = Pump house.

Operating permit pending – not in operation at this time.

capture zone calculations. This conservatism reflects the uncertainty inherent in groundwater capture zone estimation methods, and the need to provide a high degree of public protection. For wells at Alpine Meadows, Emerald Estates, and Function Junction, the WPAs encompass the entire developed areas. The RMOW's Official Community Plan (OCP) includes a Well Protection Areas map that will be updated to match the mapping prepared by Piteau Associates.

Task No.	<u>Description</u>	<u>Completion</u>		
2	Prepare an amending bylaw to the OCP that will replace the existing mapping with the revised information.	Q-4 2009		

#### 3 Groundwater Pollution Areas of Concern

#### 3.1 Inventory of Potential Contamination Sources

On behalf of the RMOW, Piteau Associates identified potential groundwater pollution areas of concern within the entire Whistler area. This survey involved reviewing current and historic maps and aerial photographs, historic information, government databases, phone books and municipal directories (current and historic), interviewing senior RMOW staff and long-time Whistler residents.

Land uses and potential groundwater pollution areas of concern are depicted on Figures 1 and 2, and are summarised in Appendix 'A'. In total, some 60 areas of concern were identified. Most of these relate to potential point source hazards relating to past or present land use, including fuel storage and dispensing at gas stations, heliports, and a seaplane base, automotive services, industrial activities (e.g., paving, concrete manufacture), dry cleaning, and wood processing. Other potential sources are associated with Highway 99 (spills and road salt), CN Rail (spills), golf courses, the wastewater treatment plant, and former landfills. As Whistler is chiefly a resort community, potential problems often associated with agriculture (e.g., nitrates) and heavy industry are absent.

Task No.	<u>Description</u>	<u>Completion</u>
3	Identify potential groundwater pollution areas of concern within the WPAs	Completed

#### 3.2 Assessment of Potential Risk Factors

The RMOW retained Piteau Associates to conduct an inventory and assess each potential groundwater pollution area of concern qualitatively in terms of the degree of risk to RMOW's supply wells. Risk was considered as "the possibility of a person being exposed to unacceptable amounts of a contaminant in drinking water". Hazard is the potential harm that can result from human exposure to a contaminant in the drinking water and exposure potential is the likelihood

that individuals consuming the groundwater will be exposed to contaminants of concern. For risk to exist, both hazard and exposure potential must be present.

The two key elements used to evaluate the magnitude of the risk were 1) the characteristics of the hazard and 2) the exposure potential. To prioritise the areas of concern, relative risk was evaluated on a qualitative basis, taking into account the amount of contaminant present (or potentially present) and storage practices, proximity to WPA(s), contaminant mobility, and aquifer vulnerability. Based on this analysis, each of the potential groundwater pollution areas of concern has been assigned a relative risk with respect to the RMOW supply wells. These are indicated in Appendix 'A'.

Task No.	Task No. Description	
4	Evaluate the risk from each of the land uses identified in the Inventory exercise.	Completed – See Appendix 'A'

#### **4 Proposed Management Options**

#### 4.1 Objectives

Options for preventing and responding to groundwater contamination at Whistler fall into the basic categories of preventing future groundwater pollution, and management of historic and/or recent contamination risks. Prevention includes measures to promote public stewardship of groundwater resources and controlling activities within WPAs to minimise the potential for future contamination. Where feasible, elimination of problems such as improperly abandoned wells (which could represent a means for introduction of contaminants to an aquifer) should also be implemented. In cases where groundwater contamination is, or may be, present due to activities in the past, risk management strategies may be needed to protect the groundwater quality. Both types of management options are included in this Plan.

#### 4.2 Raising Public Awareness

Involvement from the community is an important component of the Plan. The objectives of this Plan include promoting stewardship at a "grass-roots" level, and to solicit public input with respect to the Plan. One of the first tasks for the Planning Team will be to assist in the development of the Community Consultation component of the Plan. If significant new information or opposition to elements of the plan are encountered throughout the Public Consultation process, staff will return to Council with that information, and request direction. The following options for the Community Consultation efforts may be considered by the Planning Team, and then presented to Council for consideration:

#### 4.2.1 Public Meetings and Open Houses

One or more public meetings/open houses will be hosted by the RMOW. The purpose of these sessions will be to allow the public to view the various materials and provide input. Notices for these meetings will be in the local newspapers and posted on the RMOW website.

#### 4.2.2 Internet Distribution

This Plan will be made available on the RMOW website. The public will be invited to provide comments at that site.

#### 4.2.3 Signage Plan

The RMOW will post signs with information on groundwater resources at conspicuous locations within WPAs.

Task No.	<u>Description</u>	<u>Completion</u>
9	Development of the Community Consultation Plan	Q-4 2009

#### 4.3 Remediation of Decommissioned Wells

Test wells, piezometers, and monitoring wells that have not been properly decommissioned represent a future groundwater contamination risk, as they are conduits through which potential contaminants could be introduced directly into an aquifer. The *Groundwater Protection Regulation* (GWPR) requires that water wells, test wells, and monitoring wells that are not in use be decommissioned in accordance with prescribed methods.

Upon discovery of a well that should be decommissioned, the RMOW will either undertake the work (in the case that it is under care and control of RMOW), or assist the authorities in communicating with the responsible parties (the land owners) to encourage them to undertake appropriate measures to correct the deficiency. In the case where voluntary compliance with the requirement to decommission the well is not forthcoming on a timely basis, the RMOW may advise the Ministry of Environment who are authorised to enforce the requirements of the GWPR.

Task No.	<u>Description</u>	<b>Completion</b>
6	Q-1 2009	
7	Prepare a workplan for elements that require decommissioning, and incorporate it into the Municipal budgeting process.	Q-3 2009
8	Assist the Province in the development of a communication strategy for privately controlled wells requiring decommissioning.	Q-3 2009

#### 4.4 Legislative Considerations

Provincial laws and regulations were reviewed during the preparation of this Plan to gain an understanding of roles and responsibilities of the various stakeholder agencies. In addition, opportunities to incorporate elements of this Plan into municipal bylaws were considered. The results of that review are discussed below.

#### 4.5 Provincial Regulations

Mechanisms for compelling property owners to assess and remediate contaminated sites are incorporated in the *Waste Management Act* (WMA) and the *Contaminated Site Regulation* (CSR). Through the submission of Site Profiles, as required by the CSR, property owners are required to identify historical land uses that may be of concern, as a condition for obtaining permits for development, rezoning, subdivision, removal of soil from commercial/industrial sites, demolition of buildings used for commercial/industrial activities, as well as other prescribed activities. If contamination is present at levels exceeding amounts prescribed in the CSR, the Province requires that either a remedial plan must be approved and implemented, a risk-based solution achieved, or the site must be remediated, before permits will be issued. However, for sites where there is evidence of impact (or imminent impact), on human health and/or the environment, the Director of Waste Management (Provincial Official) may order the owner/responsible person to conduct site investigations, and may issue a remediation order or pollution abatement order to any responsible person, completely independent of any Municipal permitting process.

The RMOW will continue to participate in the Site Profile process established by the CSR. Information obtained through this process will be used in the periodic updates to this Plan. If needed to respond to a case of known or imminent groundwater contamination, the RMOW will assist the provincial government in their efforts to compel responsible persons to address groundwater contamination issues.

Section 25 of the *Drinking Water Protection Act* empowers a Drinking Water Officer (DWO) to order persons whose actions or omissions result in, or significantly contribute to, a drinking water health hazard or risk, to conduct studies, undertake corrective measures, and perform a wide variety of other remedial actions. Where appropriate to respond to a known or imminent

groundwater contamination, the RMOW will work with the DWO to address ongoing groundwater contamination issues within WPAs.

Task No.	<u>Description</u>	<u>Completion</u>
9	Continue to support the Province and Vancouver Coastal Health with groundwater protection matters.	Ongoing

#### 4.6 Municipal Bylaws and Policies

Local governments in British Columbia have, at their disposal, a range of legislative tools that can be utilised, in consultation with the Province, to develop a comprehensive approach to the protection of our local groundwater resources. As appropriate, the RMOW will develop new bylaws to promote stewardship and protection of groundwater resources at Whistler. Collaboration with various agencies in the Provincial Government is a critical element as the Province is ultimately the regulator of groundwater resources, water utilities, and pollution control measures.

#### 4.7 Waterworks and Sewerage Area Bylaws – Requirement to Connect

Existing RMOW bylaws require that all properties within established waterworks and sewerage areas be connected to RMOW sewer and water utilities. These bylaws, originally targeted at ensuring the viability of the municipal utilities, will be reviewed to ensure that the established areas are updated/revised to ensure the new sewerage and waterworks areas capture all existing and reasonably foreseeable development areas. This will ensure that private water supply wells, specifically those of significant capacity, cannot be constructed within WPAs. In addition, it will provide guidance to the Province when considering permit applications for discharge of wastewater effluents, and other incompatible activities. These revisions can also provide guidance and information to the Province when considering applications from third parties to extract significant quantities of groundwater from the identified Well Protection Areas.

Task No.	<u>Description</u>	<b>Completion</b>
10	Review Waterworks and Sewerage Area Bylaws and draft the required mapping and text amendments.	Q-2 2010
11	Seek Council approval of the above-mentioned amendments.	Q-3 2010

#### 4.8 Official Community Plan

The RMOW's Official Community Plan (OCP) is the primary policy document that contains the guiding principals for our community. Aquifer areas are currently recognised in our existing OCP but the related statements in that document are very general and do not give focussed guidance to our community with regard to how particular types of development may conflict with the protection of groundwater resources (refer to Section 4.12.4 of the OCP). Concurrently with the mapping amendment needed to update the WPA areas in the OCP, and other legislative amendments discussed below, text revisions to the OCP will be brought forward to Council that will give more detailed guidance pertaining to the principals of protecting our groundwater resources. These amendments may include:

- i. Policy statements related to transportation corridors in the vicinity of WPAs.
- ii. Recognition that some types of community development in the WPAs should be discouraged or regulated particularly those that may involve activities that may be incompatible with the groundwater resources.
- iii. Establishment of a Development Permit Area over the WPAs, that will set out additional regulations for any proposed development in those areas. The regulations associated with this Development Permit Area may include:
  - ➤ A requirement that the proposed development applicant will submit an analysis by a qualified professional that will identify any potential threat to groundwater resources resulting from the proposed development.

➤ If threats are identified, an acceptable Local Aquifer Protection Plan (LAPP) must be prepared for that development and a commitment from the applicant to adhere to the LAPP obtained.

Task No.	<u>Description</u>	Completion
12	Complete mapping amendment to identify the newly identified WPAs.	Complete
13	Compose revised text for the OCP that will support the objectives of the Plan.	Q-3 2010
14	Conduct consultation with the public, as directed by Council.	Q-4 2010
15	Return to Council with the results of the Consultation, and seek approval of the amendments	<i>Q-1</i> 2011
16	Seek Council approval of the above-mentioned amendments.	Q-1 2011

#### 4.9 Zoning Regulations

The regulation of land use is accomplished through Council's ability to set land use regulations within the community. Land use regulations can be considered that will prohibit certain types of development within WPAs. This type of amendment will involve significant consultation with Council and the community.

Task No.	<u>Description</u>	<u>Completion</u>
17	Compose revised text for the Zoning Bylaw that will support the objectives of the Plan.	Q-3 2010
18	Request Council input with respect to the above- mentioned amendments.	Q-1 2011
19	Conduct consultation with the public, as directed by Council.	Q-1 2011
20	Return to Council with the results of the Consultation, and seek approval of the amendments	Q-2 2011

#### 5 Contingency and Spill Response Plans

#### **5.1** Objectives

Emergencies such as spills of hazardous liquids on the railway or roadways, or breaching of sewage main, could potentially result in significant impacts to groundwater resources if they occur within WPAs. This Plan therefore recognises that a review of the current RMOW Water System Emergency Response Plan is required, and sets out a timeline for completion of those revisions. Contingency plans are also required to address the scenario where unacceptable contaminant concentrations are discovered in groundwater from a supply well. This Plan also sets out the process whereby the Contingency Plans will be developed, reviewed by the Planning Team, and adopted.

#### **5.2 Spill Response**

The *Spill Reporting Regulation* of the *Environmental Management Act* requires a person who has possession, charge or control of a substance that is spilled, to immediately report the spill to the Provincial Emergency Program (PEP) by telephoning 1-800-663-3456 if the quantity released is in excess of an amount prescribed in the regulation. Furthermore, the person is required to take all reasonable and practical action while having due regard for the safety of the public and of himself or herself, to stop, contain and minimize the effects of the spill.

The Planning Team will review the RMOW Water System Emergency Response Plan and consideration will be given to inclusion of the following elements:

- If the spill did occur in a WPA, as appropriate, immediately suspend or limit usage of
  wells nearest the spill site pending a review of potential effects to the aquifer and well
  water quality.
- If the spill is the result of a rail incident, CN Rail will be responsible for responding. Similarly, if on the highway or local roads, response to the spill will be the responsibility product owner and/or transport company. As soon as practically possible, the RMOW will ensure that the responsible party and responders are aware that the spill has occurred within a WPA, and will monitor the spill response efforts.

- In instances where the RMOW considers spill response efforts by others to be insufficient to protect the groundwater resource, it will advise the responsible parties and the PEP. If it considers that additional measures have not been implemented within a reasonable amount of time, the RMOW may initiate additional measures independently. This may be achieved by retaining an emergency response contractor, local subcontractors, and/or RMOW forces.
- Following appropriate review and assessment by the RMOW and our consulting professionals, the municipal production wells potentially affected by the spill may be put back into service. Where directed by the DWO, the RMOW will conduct additional monitoring of the well and water quality, or work with the responsible parties to ensure that sufficient data is collected.
- If a spill is the result of a release from RMOW operations or damaged or malfunctioning RMOW infrastructure (e.g., sewage release), the RMOW will respond. If this has occurred within a WPA, as appropriate, usage of wells nearest the spill site would be immediately suspended or limited by the RMOW pending a preliminary review of potential affects to the aquifer and well water quality by a Qualified Professional. Following appropriate review and/or assessment, the wells potentially affected may be put back into service. Where directed by the DWO, the RMOW will, with the assistance of our consulting professionals, conduct additional monitoring of the well and water quality.

Task No.	<u>Description</u>	<u>Completion</u>
21	The Planning Team will review and revise the RMOW Water System Emergency Response Plan in consultation with internal and external agencies.	Q-3 2010
22	Seek Council approval of the revised Water System Emergency Response Plan, if Council approval is deemed necessary.	<i>Q-1</i> 2011

#### 5.3 Aquifer Contamination Response Plan

An Aquifer Contamination Response Plan will be authored in consultation with the Planning Team that will provide for procedures, contact information, and contingencies, in the event that contamination is detected in the testing results. This Planning Team will consider including the following elements in the detailed Aquifer Contamination Response Plan:

#### 5.3.1 Response Planning For Water Supply Wells

The RMOW will monitor groundwater from operating municipal wells in accordance with the monitoring schedule described in Section 6, and if needed, will also conduct additional monitoring required as the result of a spill. All chemical and bacteriological analyses results will be transmitted to a third-party service (WaterTrax) who is responsible for storing the data and comparing the analyses results to maximum available concentrations and/or aesthetic objectives recommended by Health Canada. In the event that a parameter is out of compliance, the RMOW and the Drinking Water Officer are immediately informed. Upon being informed of a non-compliant analysis result, the RMOW will, in consultation with the DWO, respond as follows:

- If one or more non-compliant parameters exceed health-based maximum allowable concentration(s), operation of the well where the sample was obtained will be immediately suspended pending review of the result by the Drinking Water Officer. Following completion of appropriate review, retesting, and/or remedial work, the well may be put back into service. Where prescribed by the Drinking Water Officer, the RMOW will conduct additional monitoring of the well and water quality.
- If the non-compliant parameter exceeds an aesthetic based maximum allowable
  concentration; the RMOW will consult the DWO and solicit the opinion of
  professional consultants. Where in the opinion of the DWO, it is acceptable to
  continue use of the well, the RMOW will conduct additional monitoring of the well
  and water quality as directed by the DWO.

#### **5.3.2** Response Planning For Monitoring Wells

The RMOW monitors groundwater quality at monitoring wells at various points within aquifers to provide "early" indications of changes to the groundwater characteristics. As needed, monitoring will also be conducted at existing or new monitoring wells required in response to an incident such as a spill, as dictated by the above-described Spill Response Plan. All chemical analyses results will be transmitted directly to the RMOW. Upon receipt, the RMOW will compare results of these water quality analyses to maximum allowable concentrations recommended by Health Canada. If one or more parameters exceed health-based maximum allowable concentration(s), advice will be sought from the DWO and RMOW professional consultants.

Task No.	<u>Description</u>	<u>Completion</u>
23	The Planning Team will develop the detailed Aquifer Contamination Response Plan in consultation with internal and external agencies.	Q-3 2010
24	Seek Council approval of the Aquifer Contamination Response Plan, if Council approval is deemed necessary.	Q-1 2011

#### **6 Water Quality Monitoring**

#### **6.1 Objectives**

This Plan includes water quality monitoring to assess water quality in the WPAs, and verify that contaminants of concern are not present at unacceptable levels in the groundwater pumped from wells. The data will also provide the RMOW and planning team with an indication on the effectiveness of various management strategies to limit the potential for groundwater contamination.

#### 6.2 Monitoring Schedule

Table 2 details the monitoring schedules incorporated into this Plan. The schedule specifies monitoring locations, parameters to be analysed, and frequency of analysis. These are in accordance with recommendations provided by Piteau Associates, with supporting information to be provided in the soon-to-be-completed document entitled "Capture Zone Assessment and Survey of Potential Groundwater Pollution Hazards for Whistler B.C.". This schedule may be modified in the future if recommended by the RMOW's consulting professional.

#### **6.3 Sampling Procedures**

Groundwater sampling procedures, record-keeping and quality assurance measures, are summarised in Appendix 'B'. Generally, groundwater samples shall be taken by trained Utility Operators, who are familiar with the procedure.

#### 6.4 Review and Reporting

As described previously, all chemical and bacteriological analyses results for groundwater from RMOW wells is automatically transmitted to a third-party service (WaterTrax) who is responsible for storing the data and comparing the analyses results to maximum allowable concentrations and/or aesthetic objectives recommended by Health Canada. In the event that a parameter is out of compliance, the RMOW and the Drinking Water Officer will be informed immediately.

		Vil	lage					Functi Juncti				Alpine Meadows		s		Emeral Estates		Rainbow Park
Analysis Parameter(s)	W205-1	W205-2	W205-3	W211	W212-1	W217	MW06-1	MW06-2	MW06-3	MW07-1	New Monitoring Well (note 5)	W202	W210	W213	W201-1	W201-2	W201-3	W218
Basic Potability(1)	1	1	1	1	1	1						1	1	1	1	1	1	1
Total Coliform and E.Coli bacteria	24	24	24	24	24	24					2	24	24	24	24	24	24	24
TDS, nitrate, ammonia						24 <sup>(4)</sup>	1	1	1	1	2							
Benzene, Toluene, Ethylbenzene & Xylenes + VPH + MTBE	2	2	2	2								1	1	1				
Volatile Organic Compounds (VOC) + VPH + MTBE					1	1	1	1	1	1	1				1	1	1	1
Polycyclic aromatic hydrocarbons (PAH)	2	2	2	2	1	1	1	1	1	1	1	1	1	1	1	1	1	1
Open characterization scan for organics															0	0	0	1
Pesticide/Herbicide Scan					1	1		1							О	О	О	1
Anion scan + metals							1	1	1	1	2							

- 1. Includes physical parameters (pH, EC, turbidity, TDS, hardness, colour), alkalinity, anions, nitrate/nitrite, ammonia, and metals.
- 2. "1" denotes one sample per year, "2" denotes twice per year (every six months), and "24" denotes two times per month.
- "O" denotes one time only.
- 4. Additional sampling of groundwater from W217 for evidence of Groundwater Under the Direct Influence also required in accordance with construction/operating permits.
- 5. Monitoring well MW09-1 is required under the construction/operating permit for W217 and is scheduled to be constructed in 2009

Table 2 – Groundwater Monitoring Schedule

Analysis results for samples from monitoring wells may be delivered directly to RMOW or to a consultant groundwater specialist, and may not be otherwise captured in the WaterTrax system. This Plan provides for the creation of a procedure that will ensure that these results will be reviewed and compared to maximum allowable concentrations recommended by Health Canada as soon as possible, and treated with the seriousness of source water supply sample results. If one or more of the parameters exceed health-based maximum allowable concentration(s), the result must be brought to the attention of the DWO, and if deemed necessary, the RMOW may seek the advice of professional consultants, to assist with evaluation of the potential source and magnitude of risk. If deemed necessary by the DWO, alterations to the monitoring schedule may be initiated. If deemed necessary by the RMOW and our consulting professionals, in consultation

with the DWO, elements of the Aquifer Containment Response Plan (See Section 5.3) may be activated.

All chemical and bacteriological data collected from RMOW production wells and monitoring wells will be summarized in the Annual Drinking Water Report prepared by the RMOW. Data from this report will be analyzed for trends in water quality to allow the RMOW to take further actions if recommended by our consulting professionals.

Task No.	<u>Description</u>	<u>Completion</u>
25	Develop a comprehensive Monitoring Schedule for supply sources and monitoring wells	Complete – See Table 2
26	Develop Groundwater Sampling Procedures	Complete – See Appendix 'B'
27	Develop a procedure to identify and report parameter concentrations that exceed acceptable levels, in Monitoring Wells.	Q-3 2009
28	Amend the Annual Drinking Water Report to include results from Table 2 – Groundwater Monitoring Schedule.	Complete

#### 7 Planning Team – Terms of Reference and Procedures

#### 7.1 Objectives

To facilitate community involvement, this Plan includes the formation of a Planning Team to monitor and guide the Groundwater Resource Protection activities in Whistler. The objectives of the Planning Team will be to review ongoing well protection activities undertaken by the RMOW, and to assess whether the Plan is achieving its goals. Where appropriate, the Planning Team will make recommendations with respect to changes to the Plan or associated procedures.

#### 7.2 Membership and Organisation

The Planning Team will be led by one or more representatives from the RMOW. Other members may include Environmental Health or Drinking Water Officers (e.g., EHO or DWO), representatives of the local business and/or Chamber of Commerce, outdoor recreation groups, private water purveyors (i.e., Van West), community groups, and various provincial ministries.

#### 7.3 Funding

The RMOW will provide a venue for meetings, record and disseminate minutes of meetings, and provide other materials needed to facilitate the activities of the Planning Team. With the exception of employees of the RMOW (and/or their consultants), the RMOW will offer no direct compensation to members of the Planning Team.

#### 7.4 Evaluation of the Plan

The Planning Team will meet on an annual basis, or as appropriate, to review the Plan and make recommendations to the RMOW with respect to changes to the Plan. The Terms of Reference for the Planning Team will include:

- Assisting in the review of the various bylaws, plans, procedures and policies outlined in this Plan;
- Reviewing RMOW efforts to promote public awareness regarding stewardship of groundwater resources at Whistler;

- Providing advice to staff regarding proposed future activities or developments within
   WPAs to ensure that the objectives of this Plan are adhered to;
- Receiving summary reports from RMOW staff related to periodic testing of the groundwater quality, and reviewing RMOW responses to anomalous or unacceptable results;
- Reviewing summary reports from RMOW staff related to incidents in WPAs;
- Reviewing community input with respect to the Plan; and
- Making recommendations to the RMOW with respect to changes to the Plan and/or associated groundwater protection issues.

Task No.	<u>Description</u>	<u>Completion</u>
29	Assemble and conduct the initial meeting of the Planning Team	Q-3 2009
30	Conduct Annual Meetings of the Planning Team	Ongoing
L	,	

#### 8 Implementation Schedule

This Plan contains various elements, some that are already complete, and some that will necessitate significant community consultation. Other elements, such as bylaws, policies, and procedures, will require Council approval, with other elements being ongoing tasks. The significant elements of this Plan are presented throughout the body of this Plan in the task boxes within each section. They are presented again below in a consolidated manner.

Table 3 - Consolidated Task List

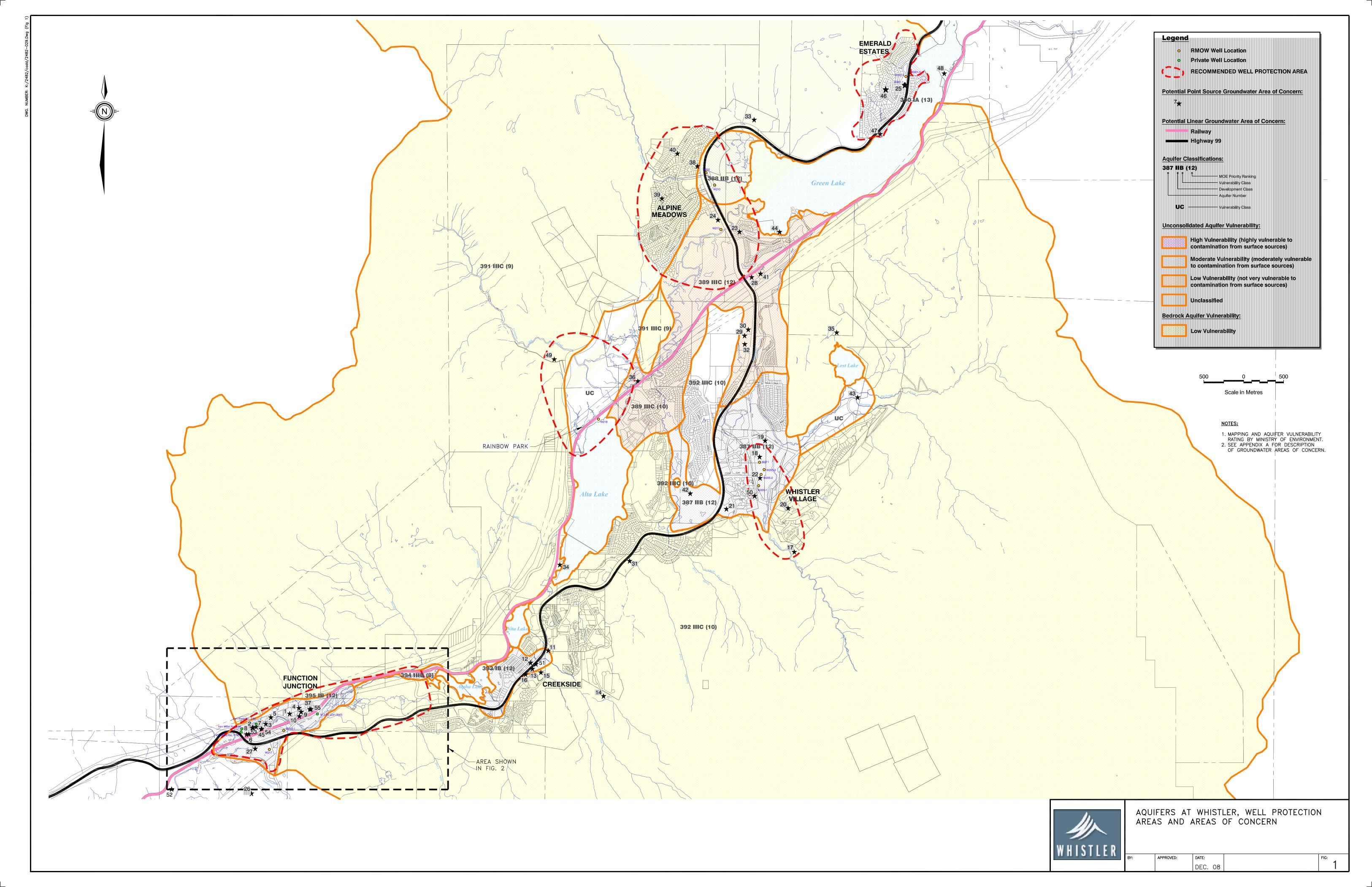
1	Complete the report entitled "Capture Zone Assessment and Survey of Potential Groundwater Pollution Hazards for Whistler B.C."  Prepare an amending bylaw to the OCP that will replace the existing mapping with the revised information.  Identify potential groundwater pollution areas of concern within the WPAs.	Q-1 2009 Q-4 2009 Completed
3 I i i	will replace the existing mapping with the revised information.  Identify potential groundwater pollution areas	2009
4 I i		Completed
5 I		
9	Evaluate the risk from each of the land uses identified in the Inventory exercise.	Completed – See Appendix 'A'
	Development of the Community Consultation Plan.	Q-4 2009
0	Identification of test wells, piezometers and monitoring wells that require decommissioning.	Q-1 2009
7 0	Prepare a workplan for elements that require decommissioning, and incorporate it into the Municipal budget process.	Q-3 2009
8 0	Assist the Province in the Development of a communication strategy for privately controlled wells requiring decommissioning.	Q-3 2009
9 1	Continue to support the Province and Vancouver Coastal Health with groundwater protection matters.	Ongoing

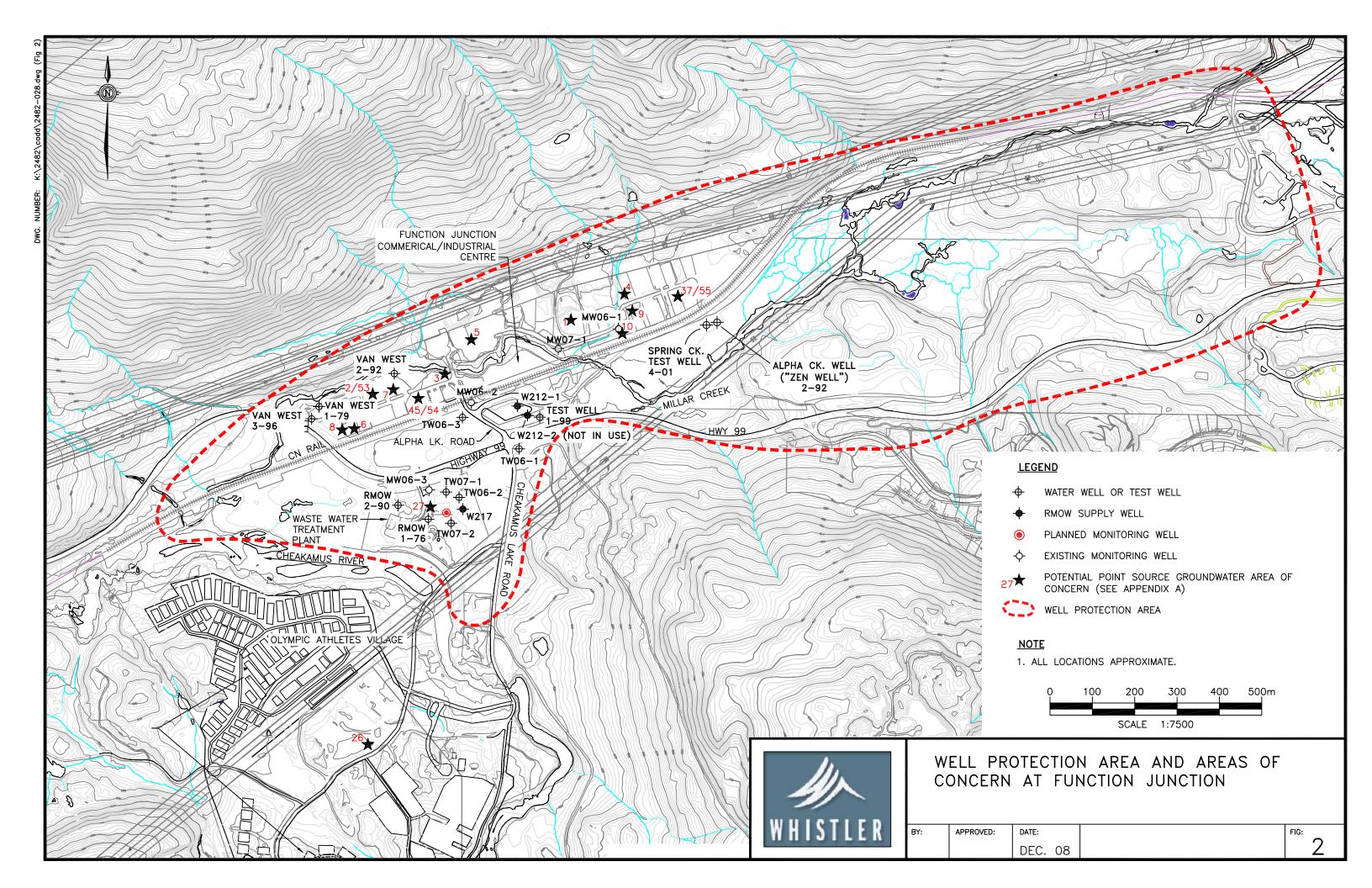
<u>Table 3 – Consolidated Task List (continued)</u>

Task No.	<u>Description</u>	<u>Completion</u>
10	Review Waterworks and Sewerage Area Bylaws and draft the required mapping and text amendments.	Q-2 2010
11	Seek Council approval of the above-mentioned amendments.	Q-3 2010
12	Complete mapping amendment to identify the newly identified WPAs.	Complete
13	Compose revised text for the OCP that will support the objectives of the Plan.	Q-3 2010
14	Conduct consultation with the public, as directed by Council.	Q-4 2010
15	Return to Council with the results of the Consultation, and seek approval of the amendments.	Q-1 2011
16	Seek Council approval of the above-mentioned amendments.	Q-1 2011
17	Compose revised text for the Zoning Bylaw that will support the objectives of the Plan.	Q-3 2010
18	Request Council input with respect to the above- mentioned amendments.	Q-1 2011
19	Conduct consultation with the public, as directed by Council.	Q-1 2011
20	Return to Council with the results of the Consultation, and seek approval of the amendments.	Q-2 2011
21	The Planning Team will review and revise the RMOW Water System Emergency Response Plan in consultation with internal and external agencies.	Q-3 2010
22	Seek Council approval of the revised Water System Emergency Response Plan, if Council approval is deemed necessary.	Q-1 2011

<u>Table 3 – Consolidated Task List (continued)</u>

Task No.	<u>Description</u>	<u>Completion</u>		
23	The Planning Team will develop the detailed Aquifer Contamination Response Plan in consultation with internal and external agencies.	Q-3 2010		
24	Seek Council approval of the Aquifer Contamination Response Plan, if Council approval is deemed necessary.	Q-1 2011		
25	Develop a comprehensive Monitoring Schedule for supply sources and monitoring wells.	Complete – See Table 2		
26	Develop Groundwater Sampling Procedures.	Complete – See Appendix 'B'		
27	Develop a procedure to identify and report parameter concentrations that exceed acceptable levels, in Monitoring Wells.	Q-3 2009		
28	Amend the Annual Drinking Water Report to include results from Table 2 – Groundwater Monitoring Schedule.	Complete		
29	Assemble and conduct the initial meeting of the Planning Team.	Q-3 2009		
30	Conduct Annual Meetings of the Planning Team.	Ongoing		





### **APPENDIX A**

#### **APPENDIX A**

#### SUMMARY OF POTENTIAL GROUNDWATER AREAS OF CONCERN AT WHISTLER

	SOURCE ACTIVITY	OWNER/ OPERATOR CONTACT INFO	POTENTIAL CONTAMINANTS	STORAGE PRACTICES & ESTIMATED QUANTITIES	DATE	SPATIAL REFERENCE	COMMENTS	PRIORITY RANKING	WITHIN WELL PROTECTION AREA	PROPOSED MANAGEMENT OPTION
1	Concrete Plant	Cardinal Concrete 604-932-3814	PHCs, metals, solvents	Diesel AST (2,500L)	1973 to	1310 Alpha Lk Rd (Function Junction)	Hydrocarbon spill at Cardinal Concrete in July 2007.	medium	Yes (Function Junction)	Monitor for PCOCs at wells and monitoring wells
				-	Present		Special waste temporarily stored on site in October 2003.			
2	Auto Repair/ Snow Dumping	Mountain Paint and Supply 604-938-1213	PHCs VOCs, metals	Paint Solvent	1993 to	110-1055 Millar Ck Rd (Function Junction)	Contained 3 - 5.5% oils and hydraulic fluid. (See #53)	low	Yes (Eunstion Junction)	Monitor for PCOCs at wells and monitoring wells
2	Snow Dumping	004-936-1213	VOCS, Metals	Quantities not available	Present	(Punction Junction)			(Function Junction)	and monitoring wells
$\neg$	Vehicle Repair/	Coastal Mountain Excavations	PHCs	Waste Oil AST (1500L)	1983	1015 & 1045 Millar Ck Rd	50m <sup>3</sup> of diesel contaminated soil removed from the	low	Yes	Monitor for PCOCs at wells
3	Snow Dumping	604-932-5469	Metals, glycols, salt	Road Salt (40 tonnes)	to Present	(Function Junction)	ground on April 29, 2003. Soil was stockpiled on site prior to transfer to approved facility. Contamination was related to leakage of diesel from an AST.	low	(Function Junction)	
$\rightarrow$	Dry Cleaning	Dual Mountain Cleaners	VOCs (perchlorethylene,	PCE (250 L)	1990	3-1380 Alpha Lk Rd	Previously located at 101-2011 Innsbruck (Creekside)	high	Yes	Monitor for PCOCs at wells
4	,	604-932-3400	trichlorethylene, cis 1,2 di-	,	to	(Function Junction)	, , , , , , , , , , , , , , , , , , , ,		(Function Junction)	and monitoring wells
			chlorethylene, vinyl chloride)		Present					
	Auto Repair	Newman Automotive	PHCs		2001	6-1208 Alpha Lk Rd		medium	Yes	Monitor for PCOCs at wells
5			Metals, glycols		to 2003	(Function Junction)			(Function Junction)	and monitoring wells
$\neg$	Auto Repair	Autopro &	PHCs	Waste Oil UST (3750L)	1992	1090 Millar Ck Rd		low	Yes	Monitor for PCOCs at wells
6	·	Local Automotive Co Ltd	Metals, glycols	Coolant Drum (200L)	to	(Function Junction)				and monitoring wells
		604-932-5760			Present					
	Auto Repair	Sea to Sky Automotive	PHCs		2001	3-1040 Millar Ck Rd		low	Yes	Monitor for PCOCs at wells
7			Metals, glycols		to 2003	(Function Junction)			(Function Junction)	and monitoring wells
$\neg$	Auto Service	Mountain Motors & Wireless	PHCs	Waste Oil AST (1000L)	2002	1216-A Alpha Lk Rd		low	Yes	Monitor for PCOCs at wells
8		604-938-1999	Metals, glycols	Coolant Drum (200L)	to	(Function Junction)				and monitoring wells
					Present					
9	Auto Repair	SMD Automotive 604-932-5347	PHCs	Waste Oil AST's (2000L) Coolant Drums (800L)	2001	1209 Alpha Lk Rd	Previously located at Husky Station (Creekside)	medium	Yes	Monitor for PCOCs at wells and monitoring wells
9	Auto Painting	004-932-0347	Metals, glycols	Solvent Pails (100L)	to 2003	(Function Junction)			(Function Junction)	and monitoring wells
$\neg$	Machine Shop	Proteck Industries	PHCs	Waste Oil (200L)	1990	1337 Alpha Lk Rd		high	Yes	Monitor for PCOCs at wells
10		604-932-6848	Metals, glycols	Solvent (80 L)	to	(Function Junction)			(Function Junction)	and monitoring wells
					Present					
	Gas Station/	Petro Canada	PHCs, MTBE,	UST's present	1968	2010 London Lane	Significant groundwater contamination with		N-	-/-
11	Auto Repair/ Waste Oil Storage		glycols, metals		to Present	(Creekside)	PHCs, remediation underway	low	No	n/a
$\dashv$	Gas Station/	Husky	PHCs, MTBE,	UST's present	1972	2101 Lake Placid Rd	Notice of independent remediation in September 2002			
12	Auto Repair/		Glycols, metals		to	(Creekside)	indicates PHCs contaminated soil removed from site.	medium	No	n/a
	Waste Oil Storage				Present					
40	Machine Repair &	Alta Engineering &	PHCs		1982	2000 Lake Placid Rd	1978-1982- 4 Tyrol Cres			,
13	Maintenance	Contracting Services			to 1985	(Creekside)		medium	No	n/a
$\neg$	Fuel Storage	Whistler- Blackcomb	PHCs, MTBE,	Former AST's	Mid	End of Nordic Drive	Documented Spills (Remediated)			
14		Temporary Fuel Storage for			to Late	(Creekside)	100L diesel (Soil Remediated)	medium	No	n/a
		World Cup			1990's		29 tonnes Waste Oil Contaminated Soil			
$\longrightarrow$	Heliport	Okanagan Helicopters	PHCs	Former AST	1981	2290 London Lane	was removed (both in 1998)			
15	neliport	Okanagan Helicopters	FIICS	Former AST	1901 to	(Creekside)		medium	No	n/a
					1983	(,				
	Dry-cleaning	Dual Mountain Cleaners	VOCs (perchlorethylene,		1984	101-2011 Innsbruck	moved to Function Junction in 1990			
16			trichlorethylene, cis 1,2 di-		to	(Creekside)		high	No	n/a
	Fuel Storoge	Whistler- Blackcomb	chlorethylene, vinyl chloride)	HET remained in 2002	1990	4552 Plankaamh W	Known sail 9 possibly group +		V	
17	Fuel Storage	Blackcomb Valley Shop	PHCs	UST removed in 2003 Waste Oil Drums	1982 to	4553 Blackcomb Way (near Whistler Village)	Known soil & possibly groundwater contamination present, detailed	low	Yes (Village)	Monitor for PCOCs at wells
				Solvent Drums	present	(	site investigation underway		(*ago)	
	Impound Lot	RMOW	PHCs		1992	Parking Lot 4B			Yes	
18			Metals		to	(Village)		low	(Village)	Monitor for PCOCs at wells
$\longrightarrow$	Canu Dumping	PMOW	DUCo		present	Dorking Let 4P				
19	Snow Dumping	RMOW	PHCs Metals		1992 to	Parking Lot 4B (Village)		low	No	Monitor for PCOCs at wells
10			motals		present	(*		IOW	140	
$\neg$	Heliport	Okanagan Helicopters	PHCs		1986	Top of Glacier Rd			Yes	
20					to	(Where sign shop is)		low	(Village)	Monitor for PCOCs at wells
		1	İ	l .	1994	(Village)	Í	l	1	l

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	Automobile	Day Skier Parking Lot	PHCs		1981	Blackcomb Way			Yes	
22	parking	Intrawest	Metals, glycols		to			medium	(Village)	Monitor for PCOCs at wells
	11.2		DU O		Present				.,	
23	Heliport	Tasman Helicopters	PHCs		1981 to	l		low	Yes (Alpine)	Monitor for PCOCs at wells
23					1987	Across Hwy 99 from Meadow Parks Sports Centre (Alpine Meadows area)		low	(Alpine)	INDITION FOR FOODS at Wells
	Arena/ Pool	Meadow Park Sports Centre	Brine	350L Liquid Chlorine	1995	8107 Camino Drive			Yes	
24			Ammonia	Secondary Containment	to	(Alpine Meadows area)		low	(Alpine)	Monitor for PCOCs at wells
					Present					
	Landfill		Metals, nutrients (ammonia,	unknown	Early to	Emerald Estates			Yes	
25			nitrate), PHCs, VOCs, other		Mid			medium	(Emerald Estates)	Monitor for PCOCs at wells
	RMOW Municipal Landfill	RMOW			1990's 1975	1401 Cheakamus Lk Rd			-	
26	RIVIOW Municipal Landrill	RMOW			1975 to	(Function Junction)		low	No	n/a
20			could include metals, nutrients, PHCs, VOCs, etc.		Present	(i diction surction)		low	NO	IVa
	RMOW	RMOW	Bacteria, viruses, other	Ferrous Chloride AST (40 000L)	1987	1001 Hwy 99	This site was also previously used		Yes	
	Waste water treatment plant		pathogens, PHCs	Chlorine Gas (3 tonnes)	to	(Function Junction)	as the RMOW Works Yard.	high	(Function Junction)	Monitor for PCOCs at wells
27	·			Sulphur Dioxide Gas (3 tonnes)	Present		Approximately 9 years ago a furnace			and monitoring wells
				Small Amounts of Laboratory Chemicals			oil UST was removed from the site.			
				Diesel AST (4000L)			No soil impacts were noted.			
	Industrial Equipment Storage and	Sabre Excavating/			1950	Mons Crossing	Site was previously occupied by			
28	Maintenance	Barney's Automotive	Glycols, metals, PHCs		to		Valleau Logging, and other various	low	No	n/a
					Present		industrial activities.			
29	RMOW Works Yard	RMOW	PHCs	UST's	1990	8001 Hwy 99	Fertilizers, lime, road salt also stored on site			
			Glycols, metals	AST's	to			low	No	n/a
	D-i-b C-b-t-ti	DO Uhidea	Road Salts PHCs		Present	A dia a a da a DAAONA/	Located adjacent to RMOW Works Yard (8001 Hwy 99)		ļ	
30	Rainbow Substation	BC Hydro	PCB's		?? to	Adjacent to RMOW	Herbicides applied annually	low	No	n/a
30			Roundup, Girlon 4		Present	Works Yard (between Village & Mons)	Insulation oil in transformers, no fuel storage on site.	low	NO	riva
	Capilano Highways Yard	Main Road Howe Sound Contracting	PHCs	Diesel AST- unknown volume	??	3000 Hwy 99	Fuel Storage/ vehicle maintenance			
31		(Current occupants of site)	road salt	Road Salt (100m <sup>3</sup> )	to	(between Creekside & Village)		low	No	n/a
				MgCI (6000L)	Present					
	RMOW Recycling Facility	RMOW	Metals		199?	8001 Hwy 99	Small amounts of batteries stored			
32					to	(between Village & Mons)	on site (removed regularly)	low	No	n/a
					Present					
	Old Ski Rainbow site	Ski Rainbow	PHCs,		196?	8900 Hwy 99				
33			Glycols, metals		to 198?	(Alpine Meadows area)	Site has been used for various industrial activities (mechanics etc.)	low	No	n/a
	Manufacturing Railway Ties	Rainbow Lumber Co.	PHCs		1945	South end of Alta Lake	Some equipment/ debris still on site.			
34	Wandracturing realiway rics	Trainbow Editibel Co.	PAH compounds (creosote)		to	Coult end of Alla Lake	Some equipment debits suit on site.	low	No	n/a
-					mid 60's					
	Wood Processing	Lost Lake Mill	PHCs		Early	North end of Lost Lake				
35	-				1940's			low	No	n/a
	Sawmill	Jaswan Singh Lumber Co	PHCs		1936	End of Lormier Rd				
36					to	(Alpine Meadows area)		low	No	n/a
					1945					
	Dry Cleaning	Sky Blue Laundry and	VOCs (perchlorethylene,		1985	2272 Alpha Lk Rd	Only listing is 1985		Yes	Monitor for PCOCs at wells
37		Dry Cleaning Ltd.	trichlorethylene, cis 1,2 di-		to 1990	(Function Junction)		high	(Function Junction)	and monitoring wells
	Auto Service	Alpine Meadows Discount	chlorethylene, vinyl chloride) PHCs		1990	8194 Parkwood			Yes	
38	AUTO OCIVIDO	Rainbow Towing	Glycols, metals		1978 to	(Alpine Meadows area)		low	(Alpine)	Monitor for PCOCs at wells
30			2., 250,		1983	, moddono dica)		.5**	( upino)	
	Aggregate Supply	Alpha Lake Aggregates	PHCs,		1978	8545 Drifter Way			Yes	
39	•/	. 55 5	Metals		to	1		low	(Alpine)	Monitor for PCOCs at wells
					1982	<u> </u>		<u> </u>		
	Auto Repair	Jackson Bros Towing	PHCs		1977	Valley Drive			Yes	
40			Glycols, metals		to	(Alpine Meadows area)		low	(Alpine)	Monitor for PCOCs at wells
					1981					
	Golf Course	Nicklaus North Golf Course	PHCs	2 AST's Present (gas/ diesel)	1995	8080 Nicklaus North Blvd	Fuel Stored at 8070 Mons Rd			
41	Operations		Roundup, Killex	<18L Roundup/ Killex used	to			low	No	n/a
		ļ	Nutrients (Fertilizer)	per year	Present	ļ	ļ	ļ	<del> </del>	

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	Chateau Whistler Golf Course	Chateau Whistler Golf Course	PHCs	2 AST's Present (gas/ diesel)	??	OF ATTION TO THE PERSON OF THE	- Ommette			51 11511
43	Onatoda Willoadi Goli Godico	1-877-238-2092	Fertilizers/ Herbicides	Spot applications of Roundup/	to	4612 Blackcomb Way		low	No	n/a
75		1 077 230 2032	Killex, Roundup	Killex (small amounts)	Present	14012 Blackcomb Way		low	140	174
-	Seaplane Base	Seaplane Base	PHCs	Killex (Striali arriourits)	??	south side of Green Lake			<u> </u>	
44	Seaplarie Base	Зеаріапе ваѕе	FRICS		to	South side of Green Lake		low	No	n/a
44					Present			IOW	NO	nya
-	Diesel Spill	Forestland Industries	PHCs	1500L diesel spill in 1992	February	BC MOE Site ID 1480	Spill on Millar Creek Rd		Yes	Monitor for PCOCs at wells
	Diesei Spiii		PHCS	200L absorbed.			· ·			
45		(formerly Malloch and Mosley)		30m <sup>3</sup> contaminated soil removed	20 1992	(Function Junction)	Contaminated soil relocated immediately to landfill	low	(Function Junction)	and monitoring wells
	5 : 6 : .	D	PHCs	unknown	1992	5 D: T DI				14 7 7 5000 1 11
40	Paving Contractor	Black Tusk Paving	PHCS	unknown		5 Pine Tree Place		le	Yes	Monitor for PCOCs at wells
46					to 1979	(Emerald Estates)		low	(Emerald)	
			DUG			0007.0				14 7 7 5000 1 11
47	Heliport	Corporate Helicopters	PHCs	unknown	1980	9007 Summerlane	Listed in directory search (can't confirm location)		Yes	Monitor for PCOCs at wells
47		Pacific Helicopters			to	(Emerald Estates)		low	(Emerald)	
	0 31/4 : 0	5 11 115	DUG		1983					
	Sawmill/ Logging Camp	Parkhurst Mill	PHCs		1923	Across Green Lake				
48					to	from Emerald Estates		low	No	n/a
-					1966					
	Cemetery	Whistler Cemetery	Metals (mercury, arsenic),		??	Alta Lake Road at			Yes	Monitor for PCOCs at wells
49			formaldehyde		to	21 Mile Creek		low	(Rainbow Park	
					Present				PW08-1)	
	Paint Sales	Whistler Hardware	PHCs, metals, non-chlorinated	Paint (100L in 1L cans)	1982	4305 Skiers Approach			Yes	Monitor for PCOCs at wells
50			solvents	Solvent (20L in 1L jugs)	to	(Village)		low	(Village)	
					Present					
	BC Hydro Spill	BC Hydro	PHCs	500L of Transformer Oil	March	Creekside				
51				(<2ppm PCB)	24			medium	No	n/a
				Spilled on March 24, 2003	2003					
	Train wreck		Unknown			1 km southwest of				
52					?	Function Junction	Railcar hulks from historic derailment	low	No	n/a
	5 10:		PHCs	D: 10 W + 07 AOT (45 000 (000))	4000	104 4055 1471 01 D 1	Special waste temporarily stored on site in October 2003.			M 7 ( B000 )
	Fuel Storage/	Whistler Transit		Diesel? Waste Oil AST (15 000/ 800L)	1993	101-1055 Millar Ck Rd	Contained 3 - 5.5% oils and hydraulic fluid.		Yes	Monitor for PCOCs at wells
53	Bus Maintenance	604-932-4020	Metals, glycols	Waste Oil Drums (200L)	to		· ·	low	(Function Junction)	and monitoring wells
			DUG	Coolant Drum (200L)	Present	NATI OLD I				M 7 ( B000 )
	Logging Operations	Malloch and Mosley	PHCs		1960?	Millar Ck Rd		medium	Yes	Monitor for PCOCs at wells
54		(Most Recent Operators)			to				(Function Junction)	and monitoring wells
					1985				<b>-</b>	
	Auto Service	Jensen Automotive	PHCs		1983	3-2274 Alpha Lk Rd		low	Yes	Monitor for PCOCs at wells
55			Metals, glycols		to				(Function Junction)	and monitoring wells
					1984		<u> </u>			
Not in	Blackcomb and Whistler	Intrawest	PHCs	UST's	66/80		Small amounts of waste oil, antifreeze			
Map	Alpine Shops and Fuel Depots			AST's	to		and hydraulic oil	low	No	n/a
Area					Present					
	Railway	CN Rail	Hazardous materials		Mid		Other than #52, no derailments or spills have		Yes	Shut off wells potentially impacted by
Linear			from derailments, spills,		1940's		occurred in Whistler area. Herbicides/	high	(Function Junction,	spill, monitor CN spill response (see
Source			etc.		Present		pesticides not applied along railway		Rainbow Park)	Secton 5.1)
1	HIGHWAY 99		Road salt, metals		Early		No known major spills have		Yes	Monitor wells and monitoring wells for
Linear			PHCs		1960's		occurred on HWY 99 in Whistler area	high	(Function Junction,	PCOCs (road salt). If spill occurs on highway, shut off potentially impacted
Source			from spills and runoff		to		Herbicides/ pesticides not applied along Hwy 99.		Alpine Estates,	wells & monitor response (see Section
<u> </u>					Present				Emerald Estates)	5.1)
	Residential Lawn and Garden		Fertilizers/ Herbicides	High nitrogen fertilizers applied in most	1960's	Residential Areas			Yes	Monitor for PCOCs at wells
Area	Care			areas, spot applications of Killex and	to			low	(all)	and monitoring wells
Source				Roundup.	Present					
	Sewage disposal to on-site		Bacteria, nitrates,			Area Source	On-site sewage disposal recently phased out.		Yes	Continue monitoring wells
Area	disposal fields at Emerald		other pathogens		to			low	(Emerald Estates)	for PCOCs including bacteria &
Source	Estates				Recent				L	nitrates

# **APPENDIX B**

### PROCEDURES FOR WEEKLY H2O SAMPLES

### IN THE OFFICE

- Choose WEEK 1 or WEEK 2 alternating from the previous week, and photocopy the results form for the correct week
- Collect requisition forms corresponding to the sample sites for WEEK 1 or WEEK 2
- Match the Water Trax labels for each of the sample sites with the corresponding requisition form

#### In addition to paperwork you will need:

- 20 or so plastic 200ml. bacteriological sample bottles (sealed)
- pH meter
- thermometer
- Cl2 residual analyzer (check powder pillows)
- a mini torch for disinfection
- a brass utility hand pump for draining Kupferle sample stations
- bags and elastics to wrap up the samples
- a cooler and ice packs to store samples
- portable turbidimeter (2100P)

### IN THE FIELD

#### NOTE: THERE ARE FOUR TYPES OF SAMPLING SITES

- Kupferle sampling stations with drain (green box)
- Copper goosenecks within a building
- Electrical box with hose bibs
- Grab samples at the intakes

# Upon arriving at any sampling site start by running sample port while filling out the requisition form with:

- Sampler's Name
- Date/Time Collected
- Fill out the label on the 200ml. bacteriological sample bottle with site name and RMOW plus your initials

#### Guidelines for running time of water source before sampling

**Distribution system** – run tap for 3-5 min or more depending on temperature (colder is better!) **Wellheads** – run well for at least 5 min. and run the sample site tap long enough to clear the still water in the line

**Surface Water** – hold bottle near base, plunge into source turning mouth upstream, or push bottle horizontally away from you

### Upon finishing at any sampling site be sure to fill out the requisition form with:

- Free Cl2 Residual
- PH value
- Turbidity value

- Record the temperature on the results form

NOTE: WHEN FINISHED AT ANY WELL OR PUMP SITES, RETURN HOA SWITCHES TO NORMAL POSITION AND CHECK PANELS, BEING SURE TO CLEAR ANY PUMP FAULTS ETC.

### **Kupferle sampling stations:**

- Unlock cover
- Disinfect with the mini torch the spout of the sample station
- Open valve enough to flush water through so you are getting your sample from the mainline (2-3 min should be sufficient but may take up to 10 min)
- Using thermometer, test the temperature (this will help to indicate if you are at the main colder is better!)
- Using pH meter, test the pH (waiting until the meter has completely stabilized)
- Fill turbidity sample cell to the white line and test for turbidity using the portable turbidimeter
- Fill Cl2 sample cells to the white line (10ml.) and test for Cl2 with the residual analyzer (be sure to rinse cells thoroughly)
- Fill the plastic 200ml. Bacteriological sample bottles to the 200ml. mark on the bottle being careful not to overfill or splash around the rim of the bottle (this may cause a false positive in the results)
- Package sample bottle and paperwork into a bag and put into the cooler with the ice packs
- Close valve, pump out the small copper line with the brass utility hand pump, and lock up the sampling station when done

### Copper goosenecks within a municipal building:

- Enter building being sure to disarm the alarm panel
- Locate and disinfect the copper gooseneck with the mini torch
- Open valve enough to flush water through so you are getting your sample from the mainline (it may take longer with the gooseneck design as the line is smaller)
- Using thermometer, test the temperature (this will help to indicate if you are at the main colder is better!)
- Using pH meter, test the pH (waiting until the meter has completely stabilized)
- Fill turbidity sample cell to the white line and test for turbidity using the portable turbidimeter
- Fill Cl2 sample cells to the white line (10ml.) and test for Cl2 with the residual analyzer (be sure to rinse cells thoroughly)
- Fill the plastic 200ml. bacteriological sample bottles to the 200ml. mark on the bottle being careful not to overfill or splash around the rim of the bottle (this may cause a false positive in the results)
- Shut off the gooseneck valve when you are done
- Package sample bottle and paperwork into a bag and put into the cooler with the ice packs
- Lock and alarm the station

#### **Electrical boxes with hose bibs:**

- Unlock electrical box on the outside of the building (you need a special key for these boxes)
- Disinfect with a mini torch the copper spout in the sampling site
- Open hose bib and flush water (may take 10-15min. as these sites as they are connected to the water lines inside the heated building)
- Using thermometer, test the temperature (this will help to indicate if you are at the main colder is better!)

- Using pH meter, test the pH (waiting until the meter has completely stabilized)
- Fill turbidity sample cell to the white line and test for turbidity using the portable turbidimeter
- Fill Cl2 sample cells to the white line (10ml.) and test for Cl2 with the residual analyzer (be sure to rinse cells thoroughly)
- Fill the plastic 200ml. Bacteriological sample bottles to the 200ml. mark on the bottle being careful not to overfill or splash around the rim of the bottle (this may cause a false positive in the results)
- Package sample bottle and paperwork into a bag and put into the cooler with the ice packs
- Shut down the hose bib and lock up the electrical box

### **Grab samples at the intakes:**

- Unlock building being sure to disarm the alarm panel
- At 21 Mile creek intake, the sample site is off the ladder on the left side when you walk into the screen room
- At Alpine intake the sample site is in the second gallery right beside the screen
- At Blackcomb intake the sample site is off the ladder right at the intake weir
- Using thermometer, test the temperature
- Using the pH meter, test the pH
- Fill the plastic 200ml. bacteriological sample bottle to the 200ml. mark, being sure not to overfill or splash around the rim of the bottle
- Observe what the feeding Cl2 is in the chlorine room and record that number on the results form for the corresponding site
- Observe what the turbidity reading is on the stationary turbidimeter in the control room
- Package sample bottle and paperwork into a bag and put into the cooler with the ice packs
- Lock and alarm the station when done

### Once all sampling and testing has been done at all sampling sites:

- Drop off all of the packaged bacteriological samples at the Whistler Health care centre, in the upstairs offices, by 14:15pm
- From there, the samples are picked up and delivered by Loomis
- Back at the office update Water Trax with the new data collected
- One week later, download the results through Medinet, view the results, and record them on the weekly water report

# **APPENDIX C**



# DESCRIPTIONS OF SUCCESS – ALL STRATEGIES –

The description of success defines what success will look like within each strategy area by the year 2020. These statements guide task force and community-wide action planning as Whistler moves toward continued success and sustainability in the future.

#### ARTS, CULTURE & HERITAGE

In 2020, Whistler is renowned for world-class arts, cultural and heritage opportunities that have become a part of Whistler's spirit and community life. They are creative, authentic and diverse, sustainable, accessible and affordable to both residents and visitors. By this time:

- The community is passionate about arts, culture and heritage, which have become a part of Whistler's spirit and community life, and alive with creative energy and aesthetic appreciation
- A range of authentic and creative arts, cultural and heritage opportunities are meaningful, accessible and financially affordable to residents and visitors
- 3. Arts, cultural and heritage opportunities attract visitors and contribute to the experience and local economy
- Whistler's people and history, the natural environment and First Nations culture are retained, celebrated and reflected through authentic and diverse offerings
- Local and regional heritage, culture and community spirit are shared locally and beyond Whistler
- Arts, culture and heritage, and their local creators and contributors, are appreciated and supported as cornerstones of the resort community's health, vitality and economic prosperity
- Whistler is renowned for world-class arts, cultural and heritage opportunities and has become a magnet for international artists who come here to perform, create, teach and be inspired
- There is a physical and organizational focal point for the diversity of arts, culture and heritage activities that spread throughout the community
- Ecologically harmful substances and practices are replaced with more sustainable alternatives

#### BUILT ENVIRONMENT

In 2020, Whistler's built environment is vibrant, reflects the community's character, contributes to individual health and wellbeing, and is moving toward its identified sustainability objectives. By this time:

- 1. Limits to growth are understood and respected
- The built environment is attractive and vibrant, reflecting the resort community's character, protecting viewscapes and evoking a dynamic sense of place
- Visitors and residents can readily immerse themselves in nature, free from noise and light pollution
- 4. To maintain vibrancy, Whistler Village is the core of the resort community
- Community spaces encourage personal interaction and shared activities
- The built environment is safe and accessible for people of all abilities, anticipating and accommodating wellbeing needs and satisfying visitor expectations
- 7. Continuous encroachment on nature is avoided
- Residents live, work and play in relatively compact, mixed-use neighborhoods that reflect Whistler's character and are close to appropriate green space, transit, trails, amenities and services
- Building design, construction and operation is characterized by efficiency, durability and flexibility for changing and long-term uses
- The new and renovated built environment has transitioned towards sustainable management of energy and materials
- 11. Landscaped areas consist of native plant species that eliminate the need for watering and chemical use
- Streamlined policies, regulations and programs have helped to efficiently and effectively achieve green development
- 13. Building ownership is structured to continually encourage transition toward a flexible and improved built environment over time.
- Whistler's green building sector contributes to the local economy
- 15. Smart growth policies and initiatives contribute to the financial health of the community
- Whistler is globally recognized as a centre of excellence in sustainable community development

#### ECONOMIC

In 2020, Whistler has a healthy and unique tourism economy that provides a quality of life, which attracts and retains community members. By this time:

- 1. Whistler has a diversified and year-round tourism economy
- 2. The Whistler economy provides opportunities for achieving competitive return on invested capital
- Whistler's tourism economy is progressive and ensures the highest and best use of limited financial, social and natural resources in the long-term
- Whistler proactively seizes economic opportunities that are compatible with tourism, and effectively adapts to changing external conditions
- Locally owned and operated businesses thrive and are encouraged as an essential component of a healthy business mix
- Whistler holds competitive advantage in the destination resort marketplace as a result of its vibrancy and unique character, products and services
- Products and services that offer high net value to users drive Whistler's economic activities
- 8. A skilled workforce supports the local economy, and the local economy supports the skilled workforce
- Physical and social infrastructure attract and support work and investment
- 10. Whistler's core accommodation base and long-term investments made in the community are protected
- 11. Effective partnerships with government and tourism organizations support economic health
- 12. The Whistler community shares resources and works together to compete in the destination resort market
- 13. Whistler is an integral part of the region's economy and works collaboratively with stakeholders

# 2

ENERGY

In 2020, Whistler's energy system is reliable, flexible and moving toward our sustainability objectives. By this time:

- Whistler's energy system is supplied by a mix of sources that are local and regional wherever possible
- 2. Whistler's energy system maximizes economic opportunities within the energy sector, and optimizes a balance between increasing energy efficiency and generating new supply
- The energy system is continuously moving towards a state whereby a build up of emissions and waste into air, land and water is eliminated
- The energy system is continuously moving towards a state whereby the net physical impact to land and water ecosystems is eliminated
- 5. Community energy needs are met reliably and equitably
- Whistler's energy system is transitioning to renewable energy sources
- 7. Energy is generated, distributed, and used efficiently, through market transformation, design, and appropriate end uses
- 8. Residents, businesses and visitors understand energy issues
- Whistler's actions will positively influence other communities' and stakeholders' movement toward sustainability

#### **FINANCE**

In 2020, Whistler lives within its financial means and has the appropriate financial tools to meet the current and future needs of the resort community. By this time:

- 1. Whistler lives within its financial means
- The resort community effectively and efficiently balances its costs and expenditures
- 3. The cost of maintaining the resort community is shared
- Resort community partners work together to identify shared spending priorities, share resources, and leverage funds and financing opportunities
- Resort community partners align their financial planning
- Senior levels of government recognize the value of the resort community and support its success
- Whistler has a healthy economy that generates revenue to contribute to the resort's funding base
- Financial principles, practices and tools employed by both the public and private sectors encourage behaviour that moves Whistler toward success and sustainability
- The long-term consequences of decisions are carefully considered
- Common evaluation criteria are used to assess actions and spending priorities, ensuring that all resource allocations strategically move Whistler toward its vision

#### HEALTH & SOCIAL

In 2020, Whistler organizations work together to meet the physical, mental, spiritual, cultural and social needs of community members and visitors. By this time:

- Community members and visitors maintain and improve their physical, mental, spiritual and social health through prevention and treatment services
- Community members and visitors learn about and enjoy experiences with other cultures and generations through activities and events
- Community members understand and respect diverse views and are encouraged to do so through a variety of initiatives
- Chemical-free, organically-grown food produced in the Sea-to-Sky Corridor is available year-round at a price affordable to community members
- Community members and visitors are civil and law abiding, and they respect each other's physical space and emotional boundaries
- Community members eat healthy food, exercise and engage in leisure and other stress relieving activities that assist in preventing illness and they avoid the abusive use of substances that evidence indicates have negative effects on physical and mental health
- 7. The resort community is safe for both visitors and residents, and is prepared for potentially unavoidable emergency events
- Whistler is accessible and inclusive for community members and visitors with disabilities
- Whistler organizations and stakeholders work together to meet the health and social needs of community members and visitors
- Community members accept responsibility for their own health, and that of other members of the community, by participating in the activities identified in this description of success

### Priority Enriching Community Life

Enhancing the Resort Experience

Priority
Protecting the Environment

Ensuring Economic Viability

Partnering for Success

#### LEARNING

In 2020, Whistler has developed and facilitated learning opportunities that enable personal and professional development and that help to achieve Whistler's vision.

#### By this time:

- Diverse, affordable and accessible lifelong learning opportunities exist to meet the community's needs
- A learning culture is nurtured and promoted locally and regionally through diverse formal and informal opportunities and leverages Whistler's international stature
- 3. The early learning needs of children in the resort community are met
- A high quality kindergarten through post-secondary education system offers a diversity of programs that meet the needs and expectations of the community
- Residents and visitors have many opportunities to actively learn about the resort community, the natural environment and First Nations culture
- Opportunities exist within developed and recreational areas for people to learn about the natural environment
- Learning opportunities contribute to the local economy and attract visitors to the resort community for learning vacations
- Learning opportunities foster collaboration, trust and community engagement and build the community's capacity for achieving Whistler's vision of success and sustainability for future generations

#### MATERIALS & SOLID WASTE

In 2020, Whistler's material flows are managed in comprehensive, convenient and upstream way, and the resort community is well on its way to embracing the concept of a 'zero waste' society. In the future:

- 1. The resort community is clean and well maintained
- Whistler offers the same or higher quality service using less materials than in the past
- Whistler is using durable materials that are less environmentally harmful, preferring recycled, natural and sustainably harvested materials, and plentiful metals
- The resort community is 'closing the loop' by providing appropriate and convenient opportunities for reducing, reusing and recycling materials
- 5. Whistler is well on its way to achieving its 'zero waste' goal
- Increased business performance and economic opportunities are being realized as a result of smart materials management
- The community is committed to providing infrastructure capable of continually decreasing our residual wastes
- Local businesses, residents and visitors are knowledgeable about material flows, and demonstrate a strong ethic of responsibility and stewardship toward resources and materials
- Substances and chemicals that are harmful to human health are being eliminated, replaced, or managed in a way that they do not disperse in nature
- Partnerships are developed such that collective procurement choices favour companies and suppliers that are consistent with our identified materials and solid waste values



#### NATURAL AREAS

In 2020, Whistler protects and, where possible, restores ecosystem integrity and biodiversity in all critical natural areas, and also protects and restores natural features within Whistler's developed and recreational areas. By this time:

- An ecologically functioning and viable network of critical natural areas is protected and, where possible restored
- 2. Use of critical natural areas is avoided and use of surrounding areas is limited to ensure ecosystem integrity
- 3. Indigenous biodiversity is maintained
- The protected natural areas of the Corridor include a full spectrum of locally representative ecosystems
- Backcountry areas are protected from overuse and degradation
- A policy of no net habitat loss is followed, and no further loss is preferred
- Developed and recreation areas are designed and managed to protect as much of the natural environment within and around them as possible
- Community members and visitors act as stewards of the natural environment
- Continual learning about natural areas and species informs appropriate restoration and protection efforts
- 10. Corridor partners adopt Natural Areas Strategies consistent with the intent of this document
- 11. Natural systems guide management approaches

#### **PARTNERSHIP**

in 2020, Whistler partners and stakeholders work together to effectively and efficiently achieve Whistler2020 and partner objectives. By this time:

- Residents, taxpayers, business and local government hold a shared vision for the resort community and work in partnership to achieve that vision
- Decisions consider the community's values as well as short and long-term social, economic and environmental consequences
- 3. Partners work together to achieve mutual benefit
- 4. Partners participate in policy making and other decisions at various levels of government where relevant
- Trust is established and maintained among Whistler Partners and stakeholders
- Stakeholders work together on decisions that affect them and collaborate with neighbouring municipalities and First Nations
- Partners support each other and live up to the agreements established within partnerships
- Partners work toward aligned budgeting processes that leverage limited resources for increased effectiveness and efficiency
- Partners meaningfully engage stakeholders and practice 'good governance' guided by Whistler's Partnership Principles

#### **RECREATION & LEISURE**

In 2020, recreation and leisure opportunities in Whistler are innovative, meet diverse resident and visitor needs, and are moving toward sustainability. By this time:

- Residents and visitors of all ages and abilities enjoy activities year-round that encourage healthy living, learning and a sense of community
- Recreation and leisure are part of the Whistler lifestyle and all community members are able and encouraged to participate
- 3. Visitors are aware of and have access to a variety of recreation and leisure offerings at a range of price points
- 4. The resort community is globally recognized as a leader in innovative recreation products and services
- Recreational experiences reflect an appropriate balance between adventure, challenge and safety, and exist within the comfortable carrying capacity of the amenity
- Quality recreation and leisure activities are delivered with exceptional service
- Local and regional stakeholders use a collaborative and comprehensive approach to developing amenities and offerings, and to resolving user conflicts
- Recreation and leisure infrastructure and practices minimize the degradation of natural areas and are transitioning toward sustainable use of energy and materials
- Recreation and leisure is a core contributor to the Whistler economy
- 10. The cost of amenities is covered within the resort community's financial means and is equitably shared among stakeholders

#### RESIDENT AFFORDABILITY

In 2020, residents are able to afford the time, products and services that enable them to enjoy the lifestyle that Whistler has to offer. At this time:

- Income and innovative benefits help make it affordable to live and play in Whistler
- Residents have access to affordable goods and services that meet their needs
- Diverse and affordable opportunities for recreation, leisure, arts and culture exist
- 4. A buy-local culture helps to circulate wealth within Whistler and the region
- Products and services offered to meet residents' needs move continuously toward meeting our sustainability objectives

#### RESIDENT HOUSING

In 2020, Whistler has an inventory of housing that is affordable and sustainable, supporting a diverse and vibrant local population. In the future:

- Resident restricted housing is affordable for permanent and short-term residents, through innovative and effective policy and financial models
- Effective financial and legal tools exist to develop and manage resent restricted housing affordability in perpetuity
- The planned flexibility within neighbourhood design, housing form, and housing tenure enables the adaptability to meet changing housing needs and future affordability considerations
- Whistler has a sufficient quantity and appropriate mix of quality housing to meet the needs of diverse residents (Target: 75% of Whistler employees live in the resort community)
- Residents enjoy housing in mixed-use neighbourhoods that are intensive, vibrant and include a range of housing forms
- Housing has been developed close to transit, pedestrian and bicycle routes, and amenities and services to reduce auto dependency
- Housing is healthy and livable, and housing design, construction and operations are evolving toward sustainable and efficient energy and materials management
- 8. Developed areas are designed and managed to be sensitive to the surrounding environment

#### Transportation

In 2020, transportation to, from and within Whistler is convenient, safe, seamless, and affordable. By this time:

- Whistler policy, planning and development prioritizes preferred methods of transportation in the following order: 1. pedestrian, bicycle and other-non-motorized means, 2. transit and movement of goods, 3. private automobile (HOV, and leading low-impact technologies), 4. private automobile (SOV, traditional technology)
- Transportation alternatives and options are developed, promoted and supported so that inter-community mobility minimizes the negative impacts of traditional modes of travel
- The convenience and seamlessness of the alternative transportation system to, from and within Whistler ensures usage rates continue to rise
- Whistler's transportation system is transitioning toward renewable energy sources, improving air quality, and maintaining ecosystem integrity
- Whistler's local and regional transportation systems minimize encroachment on nature
- Regional partnerships enhance the journey to the resort as part of the experience
- Residents, businesses and visitors are increasingly aware of the importance and benefits of alternative transportation choices
- 8. The transportation system efficiently meets both the short- and long-term needs of all users
- 9. Whistler's transportation system is safe and enjoyable
- 10. The transportation systems to, from and within the resort community are accessible and offer affordable travel options



#### VISITOR EXPERIENCE

In 2020, Whistler has maintained its sense of place, and continuously renews the visitor experience to consistently meet and exceed expectations.

#### By this time:

- 1. Visitors feel genuinely welcome
- Communication, travel and services are accessible, seamless and convenient at all phases of visitors' trips, from prior to departure until after returning home
- Community members' passion for Whistler inspires visitors, and interaction among the two groups creates memorable experiences
- Community members and organizations work collectively to ensure exceptional experiences that exceed visitor expectations
- 5. Whistler proactively anticipates market trends
- Visitors perceive Whistler products, services and activities to be excellent value
- A diverse range of year-round activities is developed and offered
- Visitors choose Whistler to actively participate in recreation, learning, and cultural opportunities
- The resort community's authentic sense of place and engaging, innovative and renewed offerings attract visitors time and time again
- The resort is comfortable, functional, safe, clean and wellmaintained
- A comfortable carrying capacity of the resort, its amenities, and the surrounding natural environment is respected
- The visitor experience is based on practices and systems that efficiently use sustainable materials and energy

#### WATER

In 2020, Whistler's water resources provide a dependable supply of healthy water to meet the long-term needs of people, other species, and nature. In the future:

- Whistler's potable water supply system delivers water of excellent quality, which meets or exceeds all relevant health standards, and meets benchmark aesthetic standards whenever possible
- Water supply is distributed reliably, equitably and affordably and is managed proactively within the context of effective and efficient emergency preparedness
- 3. Residents and visitors are educated about, and encouraged to protect and conserve natural water resources
- All potable water is used sparingly and only used to meet appropriate needs
- 5. Wastewater and bio-solids are readily assimilated in nature
- Water supply, wastewater management and flood control infrastructure minimize energy requirements, and favour sustainably managed materials and resources
- Watershed-based management approaches and policies guide and integrate overlapping land and resource values including (but not limited to) development, infrastructure, forests, habitat, recreation, fisheries and aquifers
- Effective stormwater management and flood control measures are in place, and replicate natural hydrological systems and functions as much as possible
- Flood control systems are maintained at a high level of emergency preparedness, where risks are managed proactively, effectively, and efficiently
- With respect to water resources, capital and long-term costs are managed in a financially prudent and fiscally responsible manner
- Potable water supply source protection is optimized within a multi-barrier approach
- Healthy streams, rivers, lakes and wetlands support thriving populations of fish, wildlife and aquatic invertebrate

### Whistler's **Sustainability Objectives** are to:



Reduce and eventually eliminate the RMOW's contributions to systematic increases in concentrations of substances from the Earth's crust



Reduce and eventually eliminate the RMOW's contributions to systematic increases in concentrations of substances produced by society (e.g., through 100% recycling).



Reduce and eventually eliminate the RMOW's contributions to systematic physical degradation of nature (e.g. by purchasing certified wood), and

# and in that society people are not subject to conditions that systematically...



Reduce and eventually eliminate our contribution to systematically undermining the ability of others to meet their basic human needs.

(e.g. by purchasing FairTrade).

13.

# **APPENDIX D**

### EMERALD W201-1

## **Appendix 1.3 Well Assessment Form**

	BRITISH COLUMBIA
~~	COLUMBA

Ministry of Health and Ministry Responsible for Seniors Lands and Parks

Ministry of Environment,

### **WELL ASSESSMENT FORM**

TO BE USED WITH THE WELL PROTECTION TOOLKIT.

IMPORTANT! Please complete one form for each ground water source used in your water system. Fill in available information. If missing information, it may be advisable to contact the Ministry of Environment, Lands and Parks' Groundwater Section [(250) 387-1115],

	local driller who drilled the well, to		
PA	RT I: WELL SYSTEM INF	ORMATION (Rafer to St	tep 1)
NATER SYSTEM LEGAL NAME	1.701-1	LEGAL DESCRIPTION OF WELL LOCATE	ON (BIWN EMERALD PAR & EMERALD DRI
EMERALD EST	AJEZ WZOIT	17115 1171 11	A EMERALD DE
WATER SYSTEM LEGAL ADDRESS EMERALD E	STATES.	<b>L</b>	
ATITUDE / LONGITUDE ,	HOW WERE LOCATION COORDINATES DE	TERMINED?	
50° 09' 33 7" / 122° 55' 36.6'	GPS(specify acco	uracy) survey X digitized from	map (specify scale)
UTM COORDINATES	HOW MANY OTHER	DOES THE WATER SYSTEM ALSO USE A SURFACE	<b>i</b> -
·	WELLS MAKE UP THE WATER SYSTEM?	WATER SOURCE? (describe)	
NUMBER OF CONNECTIONS	POPULATION SERVED WATER USE	irrigation commercial	other (specify) industrial
Actual	★ dornestic	WELL TAK	
VIN NO. 803	EMS NO.		00002
Contact your locs	I Ministry of Environment I ands and P	arks office or local Health Unit for the	following information:
VIN NO. = MoELP's metal tag affixed to the a dentification.		mber for the water chemistry on BC WELL	TAG NO. = MoELP's computer number for the well.
Bulk supply X yes no	Back-up supply yes no	Emergency supply yes	no Metered X yes no
WELL OPERATOR		<u> </u>	WELL OPERATOR'S PHONE NO.
			(60t) 932 5535
S	A	The Willer	
\$ 4325 BL	ALKCOMB N	144, W11131	WELL OWNER'S PHONE NO.
WELLOWNER	's above		( )
	5 asom		
WELL OWNER'S ADDRESS //			
DART II	: WELL CONSTRUCTION	INFORMATION (Refer	to Step 1)
VELL-DRILLER'S NAME, COMPANY AND ADI		POSTAL CODE	DATE WELL YYYY MM DD
DRILL WELL ET	NTERPRISES	V9L 4T8	ORIGINALLY CONSTRUCTED 1231 081 -
4994 Polkey Ro	ad	WELL-DRILLER'S TELEPHONE NO	YYYY MM DD
	, 400	!	DATE OF LAST
Duncan, BC		(604) 746 526	
YPE OF WELL	METHOD OF DRILLING	C thus C is the C other	WELL LOG AVAILABLE?
drailed (specify)	tool	drivenjetted(specify)  SCREEN LENGTH	DEPTH TO TOP OF SCREEN
PEPTH OF WELL	DIAMETER OF WELL  m or 8 in.	l	n. 11.6 mor n.
20,2 m or ft.	LOCATION OF WATER-BEARING FRACT		YIELD OF WATER-BEARING FRACTION(S)
14.2 L/s or Igp		(C)	L/s or Igpm
VELLHEAD ENCLOSURE	SUF	RFACE SANITARY SEAL	
pump house 🔲 manhole 🔀 ot	ther pecify) UC none grou	uted to 4, 6 m or	tt. no surface seal pitless adapter
VERAGE PUMPING RATE	HOW WAS PUMPING RATE DETERMINE	ED?	DEPTH OF INTAKE SETTING PUMP AGE
L/s or Igp	m N/a		m or ft.
NNUAL VOLUME OF WATER PUMPED	HOW WAS VOLUME PUMPED DETERMI	INED?	
LorIgal	N/a	THE DIMEDING COLUMN TATE A	
UMPING CAPACITY	ANY CHANGES OR REPAIRS MADE TO	THE PUMPING EQUIPMENTY (Specify)	
	m	STORAGE CAPACITY	COMMON INLET OR OUTLET?
YPE OF STORAGE tank(s) reservoir other (specific	ui	L or	Igal yes no
TRACHED INFORMATION	9	NOTE: If no well have	available please attach any other records
well log drawings reports	s pump test data water quality	documenting t	well construction (i.e., "as built" drawings,
		Ungine shing to	
LTH 160, page 1 of 4 99/07/06			
	d Chamber		
ic = Undergroun	u commet		

PART III: H	YDROGEOLOGIC INFO	RMATION (Refer to Steps 1 and 2)
DEPTH TO PUMPING WATER LEVEL DEP	TH TO NON-PUMPING WATER LEVEL. H	HOW WAS WATER LEVEL MEASURED?
mor tt	0.06 mor tt.	well log wetted tape probe transducer  RED? (specify) IF SOURCE IS A FLOWING WELL OR SPRING, IS THERE A STORAGE
IF WELL IS FLOWING, WHAT IS THE ARTESIAN HOW PRESSURE HEAD AND FLOW?	VIS PRESSURE HEAD AND FLOW MEASU	IMPOUNDMENT OR RESERVOIR ASSOCIATED WITH THIS SOURCE?
m or ft.		yes (specify) no
WELLHEAD ELEVATION (height above mean sea	level) HOW WAS ELEVATION DETERMIN	NED? map (specify scale other and contour interval) (specify)
TYPE OF CONFINING LAYER FROM WELL LOCA	ATION OF CONFINING	THICKNESS OF HOW LATERALLY EXTENSIVE IS CONFINING
LOG (e.g., clay, till) LAYE	B AT DEPTH	CONFINING LAYERft. DAYER?
IS YOUR WELL ASSOCIATED NAME OF AQUIFER		AQUIFER CLASSIFICATION NUMBER (from MoELP)  390  TB (12)
Yes noEYVIE!  TYPE OF AQUIFER	ARE THERE OTHER HIGH	-CAPACITY Ves ANNUAL RAINFALL
unconsolidated, unconsolidated, unconfined unconfined	bedrock WELLS, 30 L/s OR 500 GA (apricultural, municipal an industrial), LOCATED WITH RADIUS OF THE COMMUN	AL_MIN.  Addor How many? 1 1729 m or in.  INTY WELL?
AQUIFER TRANSMISSIVITY	HOW WAS TRANSMISSIVITY DETERMINI from pumping test from	Specific capacity other (specify)
m <sup>2</sup> /d or Igpd/ft. HYDRAULIC GRADIENT	HOW WAS HYDRAULIC GRADIENT DETE	
	from well water levels [ ] fr	rom topography other (specify)
PLEASE IDENTIFY OR DESCRIBE ADDITIONAL HY SOURCE, WHERE POSSIBLE, REFERENCE THEM	YDROLOGIC OR GEOGRAPHIC CONDITIO	ONS THAT YOU BELIEVE MAY AFFECT THE SHAPE OF THE CAPTURE ZONE FOR THIS D IN PART IV.
SOURCE, WHERE POSSIBLE, REFERENCE THEM	TO ECCATIONS ON THE MAIL THOSE CO.	
see Dition Ro	eport (De	c. 2003)
I I I I I I I I I I I I I I I I I I I	- J	
	***************************************	
	***************************************	
	1005001151	TED QUALITY (Bafar to Sten 1)
		TER QUALITY (Refer to Step 1)  2 HAS YOUR WELL EVER BEEN DEEPENED, CLEANED, NEW WELL CONSTRUCTED?
HOW LONG HAS THE WATER SYSTEM BEEN	79	yes — Wity? no
3 IN THIS TIME, HAVE THERE BEEN IF YES.	WHEN AND WHAT	
ANY WATER QUALITY PROBLEMS? WAS THE	HE CAUSE OF THESE OUS PROBLEMS	
L	rought, pump fallure, ng, increased usage,	
interfere	ronce contemination)?	colour, turbkiry, other)? • WHAT ACTION WAS TAKEN TO OVERCOME THIS PROBLEM?
• WHAT WERE THE EFFEC	CTS OF THIS ACTION?	borner (May - lun laar lun laar)
3 occurences p		forms (May-Jun 1995, Jun 1996)
3 occurences of	elevated tu	
1 occurence of	ellivated i	
,		
4		ONTAMINATION
ANY BACTERIAL DETECTION(S) IN THE PAST 3 Y BASED ON SOURCE-MONITORING RECORDS?	YEARS Yes no	HAVE THERE BEEN SAMPLING PROTOCOLS OR QAVQC Yes no
HAS SOURCE (IN PAST 3 YEARS) HAD A BACTER CONTAMINATION PROBLEM FOUND IN DISTRIBUTED TO THE SOURCE?	RIOLOGICAL UTION SAMPLES Yes X no	bi weeky analysis for
WAS THE BACTERIOLOGICAL CONTAMINATION THE SOURCE?	DUE TO yes X no	colitorm bacteria annual
WAS THE BACTERIOLOGICAL CONTAMINATION CROSS-CONNECTIONS?	DUE TO yes	analysis for polability
IS THE WELL AVAILABLE FOR DIRECT SAMPLING	G? Yes no	quarterly analysis for
HLTH 160, page 2 of 4 99/03/18		Toc and HPC backria

### **Appendix 1.3 Well Assessment Form (continued)**

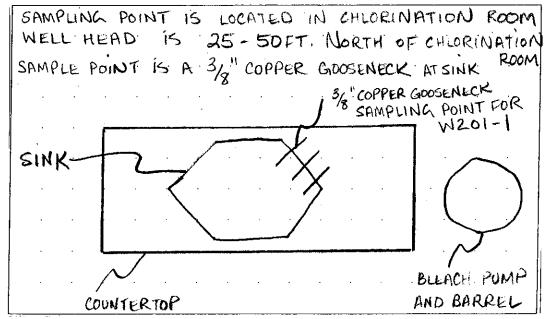
SOURCE-SPECIFIC WATER QUALITY RECORDS (Refer to Step 1)

Please Indicate the occurrence of any test results in the last 10 years that meet the following conditions:

PARAMETER	RECURRING PROBLEMS	TEST RESULTS	EXCEEDENCES OF CDWQG <sup>1</sup>
Bacteriological Total/Faecal Coliforms Background Heterotrophic plate counts Iron and Sulphate Reducers	total colitorms present in May-Jun 1995, Jun 1996		
Disinfection by-products Bromodichloromethane Dibromochloromethane Chloroform	NONE		
Physical Parameters pH, colour, alkalinity, specific conductance, hardness, total dissolved solids, total organic carbon, turbidity	elevated hurbidity	1.1 - 6.85 NTU	Dec 89, May 95, Jun 96.
Inorganic Parameters Nitrates, fluoride, sulfate, sulphide, ammonia, chloride, nitrite, nitrogen (organic)			
Metals* Calcium, iron, magnesium, manganese, sodium	elevated Iron	0.6	Jun 96

<sup>&</sup>lt;sup>1</sup> Canadian Drinking Water Quality Guidelines, 6th edition

Please sketch in the box below the location sampling point with respect to the well.



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<sup>\*</sup> A metal scan is usually performed every 3 years at least, and includes aluminum, arsenic, barium, cadmium, chromium, copper, lead, molybdenum, nickel, phosphorus, silver and zinc.

PART V: WATE	R TREA	TMENT I	NFORMA	TION (Re	eter to S	tep 1)		
IS THIS SOURCE TREATED?   IF YES, TYPE OF TREATMEN						other		
yes no Sisinfection filtra	ation 🔲 ca	arbon filter	air stripper	water so	tener	(specify)		
PURPOSE OF TREATMENT				1				
	inking		hr s		•			
F SOURCE IS CHLORINATED.   Total Chlorine	Free 0	thlorine	WHAT IS THE	RESIDUAL LEVE	L OF TREATM	ENT?		
MAINTAINED?   ppm	0.30	ppm ppm						
IS THERE ANY WATER STORAGE IN THE SYSTEM?	🔀 yes 🗌	πο	IS THE WATER THE STORAGE	TREATMENT BE UNIT?	FORE OR AF	TEH D	before	after
WHAT IS THE TOTAL AND   Total Chlorine		hlorine	IS THERE ANY		l Total	Chlorine		Free Chlorine
FREE CHLORINE IN THE DISTRIBUTION SYSTEM?	0.20	) ppm	THE SOURCE	(rechlorination)?	·	pr	om _	ppi
WHAT TYPE OF CHEMICALS ARE USED IN THIS PROCESS?	(specify)		WHERE ARE O	HEMICALS STO	RED?			
IF STORED IN P								
S THERE PROPER STORAGE yes IF STORED IN P	UMP HOUSE, F	OW ARE CHE	in 1d	in a l	or c	hom	ical	اح .
PART VI: MAPPING THE CA						LL (Rei	er to :	step 2)
A map (1:5000 to 1:20,000 are typical sca Multiple wells in the same area can be pic	iles) will be otted on o	e needed to ne map.	o complete	this section	7,			
CIRCULAR CAPTURE ZONE (refer to A			PA	RABOLIC CA	PTURE ZO	NE (refer t	o Append	lx 2.2)*
	DIUS (m)		Downgradient		m	Width of capture zone		m
Arbitrary Fixed Radius			distance					dentify on map)
2 (1-year travel time)* * SEL PI	teau		surface water	ver, lake, pond, er body within ti	ne 6-month ti	ne of Iravel	no yes (	чениу он тар/
User travel time)* #Sec Property (10-year travel time)*   10-year travel time)*	- D	1 2	boundary?			d		
To year dave time, 7 = 901 1	vec	1005	treatment la	ormwater and/o goon or holding	pond located	raciaty, I within the	no yes	dentify on map)
(10-year travel time)*			6-month tim	e of travel boun	dary?			
PART \	VII: SOU	IRCE SU	RVEY (R	efer to Si	tep 3)			
REGIONAL SOURCES OF RISK TO GROUND WATER								
		f contamina	tion within t	he capture z	опе.			
ACTIVITY	EO.T. NOT SPECIFIED	f contamina	stion within t	he capture z	опе.	CO	MMENTS	
ACTIVITY	EO.T. NOT				one.	CO	MMENTS	
ACTIVITY S	EO.T. NOT				one.	CO	MMENTS	
ACTIVITY S Chemical Storage (specify)	EO.T. NOT							
ACTIVITY S Chemical Storage (specify) Injection wells	EO.T. NOT				ипо Н			? Well h
ACTIVITY S Chemical Storage (specify) Injection wells Abandoned wells	EO.T. NOT							e well h
ACTIVITY S Chemical Storage (specify) Injection wells Abandoned wells Landfills, dumps, disposal areas	EO.T. NOT							° well h
ACTIVITY S  Chemical Storage (specify) Injection wells Abandoned wells Landfills, dumps, disposal areas  Commercial/industrial sites	EO.T. NOT							? Well h
ACTIVITY S  Chemical Storage (specify) Injection wells Abandoned wells Landfills, dumps, disposal areas Commercial/industrial sites Known hazardous materials clean-up site	EO.T. NOT							? Well h
ACTIVITY  Chemical Storage (specify)  Injection wells  Abandoned wells  Landfills, dumps, disposal areas  Commercial/industrial sites  Known hazardous materials clean-up site  Household hazardous waste	EO.T. NOT							e well h
ACTIVITY  Chemical Storage (specify) Injection wells Abandoned wells Landfills, dumps, disposal areas Commercial/industrial sites Known hazardous materials clean-up site Household hazardous waste Population density > 2 houses per hectare	EO.T. NOT							e well h
ACTIVITY  Chemical Storage (specify) Injection wells Abandoned wells Landfills, dumps, disposal areas  Commercial/industrial sites  Known hazardous materials clean-up site Household hazardous waste Population density > 2 houses per hectare On-site sewage treatment	EO.T. NOT							e well h
ACTIVITY  Chemical Storage (specify) Injection wells Abandoned wells Landfills, dumps, disposal areas  Commercial/industrial sites  Known hazardous materials clean-up site Household hazardous waste Population density > 2 houses per hectare On-site sewage treatment Wastewater treatment facility	EO.T. NOT							e well h
ACTIVITY  Chemical Storage (specify) Injection wells Abandoned wells Landfills, dumps, disposal areas Commercial/industrial sites Known hazardous materials clean-up site Household hazardous waste Population density > 2 houses per hectare On-site sewage treatment Wastewater treatment facility Sites used for land application of waste	EO.T. NOT							' well h
ACTIVITY  Chemical Storage (specify) Injection wells Abandoned wells Landfills, dumps, disposal areas Commercial/industrial sites Known hazardous materials clean-up site Household hazardous waste Population density > 2 houses per hectare On-site sewage treatment Wastewater treatment facility Sites used for land application of waste Golf course	EO.T. NOT							e well h
ACTIVITY  Chemical Storage (specify) Injection wells Abandoned wells Landfills, dumps, disposal areas Commercial/industrial sites Known hazardous materials clean-up site Household hazardous waste Population density > 2 houses per hectare On-site sewage treatment Wastewater treatment facility Sites used for land application of waste Golf course Dairy or beef farms Poultry barns	EO.T. NOT							e well h
ACTIVITY  Chemical Storage (specify) Injection wells Abandoned wells Landfills, dumps, disposal areas Commercial/industrial sites Known hazardous materials clean-up site Household hazardous waste Population density > 2 houses per hectare On-site sewage treatment Wastewater treatment facility Sites used for land application of waste Golf course Dalry or beef farms	EO.T. NOT							e well h
ACTIVITY  Chemical Storage (specify) Injection wells Abandoned wells Landfills, dumps, disposal areas Commercial/industrial sites Known hazardous materials clean-up site Household hazardous waste Population density > 2 houses per hectare On-site sewage treatment Wastewater treatment facility Sites used for land application of waste Golf course Dalry or beef farms Poultry barns Hobby farms	EO.T. NOT							well h
ACTIVITY  Chemical Storage (specify) Injection wells Abandoned wells Landfills, dumps, disposal areas  Commercial/industrial sites Known hazardous materials clean-up site Household hazardous waste Population density > 2 houses per hectare On-site sewage treatment Wastewater treatment facility Sites used for land application of waste Golf course Dairy or beef farms Poultry barns Hobby farms Fields: vegetables, hay, fruit (specify)	EO.T. NOT							e well h
ACTIVITY  Chemical Storage (specify) Injection wells Abandoned wells Landfills, dumps, disposal areas  Commercial/industrial sites Known hazardous materials clean-up site Household hazardous waste Population density > 2 houses per hectare On-site sewage treatment Wastewater treatment facility Sites used for land application of waste Golf course Dairy or beef farms Poultry barns Hobby farms Fields: vegetables, hay, fruit (specify) Mining operations Gravel pits	EO.T. NOT PECIFIED	1-YEAR	5-YEAR	10-YEAR	ипоНа	cal d		well h
Chemical Storage (specify)  Injection wells  Abandoned wells  Landfilis, dumps, disposal areas  Commercial/industrial sites  Known hazardous materials clean-up site  Household hazardous waste  Population density > 2 houses per hectare  On-site sewage treatment  Wastewater treatment facility  Sites used for land application of waste  Golf course  Dairy or beef farms  Poultry barns  Hobby farms  Fields: vegetables, hay, fruit (specify)  Mining operations  Gravel pits	EO.T. NOT SPECIFIED	1-YEAR	5-YEAR	10-YEAR	Uno H	cal d	ump (	
ACTIVITY  Chemical Storage (specify)  Injection wells  Abandoned wells  Landfills, dumps, disposal areas  Commercial/industrial sites  Known hazardous materials clean-up site  Household hazardous waste  Population density > 2 houses per hectare  On-site sewage treatment  Wastewater treatment facility  Sites used for land application of waste  Golf course  Dalry or beef farms  Poultry barns  Hobby farms  Fields: vegetables, hay, fruit (specify)  Mining operations  Gravel pits  * Mark and identify on map any of the potential si	OURCES listed	1-YEAR	5-YEAR	10-YEAR	ипоНа	boundary.	ump (	
ACTIVITY  Chemical Storage (specify)  Injection wells  Abandoned wells  Landfills, dumps, disposal areas  Commercial/Industrial sites  Known hazardous materials clean-up site  Household hazardous waste  Population density > 2 houses per hectare  On-site sewage treatment  Wastewater treatment facility  Sites used for land application of waste  Golf course  Dairy or beef farms  Poultry barns  Hobby farms  Fields: vegetables, hay, fruit (specify)  Mining operations  Gravel pits  * Mark and identify on map any of the potential st	EO.T. NOT SPECIFIED	1-YEAR	5-YEAR	10-YEAR	Uno H	boundary.	ump (	

### RESORT MUNICIPALITY OF WHISTLER - EMERALD ESTATES WELL 1-79

Location: On the west side of Highway 99, in the Emerald Estates Subdivision on the west side of Green Lake opposite Parkhurst. EE Well 1-79 is located immediately above the highway between Emerald Park and Emerald Drive.

Contractor: Drillwell Enterprises Ltd.

Date of Installation: August 1979.

### Driller's Litholog:

0.0	-	9.1	m	(	0	-	30 ft)	very coarse gravel
9.1	-	10.7	m	(	30	-	35 ft)	coarse sand and medium gravel
10.7	-	16.2	m	(	35	- '	52 ft)	coarse gravel
16.2	-	19.8	m	(	52	-	65 ft)	fine sand
19.8	-	20.7	m	(	65	_	68 ft)	green-coloured bedrock.

Static Water Level: 6.06 m (19.89 ft) below the well casing stickup of 0.85 m (2.80 ft) above ground, prior to the start of the pumping test on August 9, 1979; 4.47 m (14.68 ft) below ground, prior to the start of the pumping test of Well 2-99 on November 24, 1999.

Diameter: 200 mm (8"); 250 mm (10") diameter surface casing extends to 4.6 m (15 ft), with the annular opening between the well and surface casings filled with grout.

Well Completion: Emerald Estates Well 1-79 is completed with a 3.35 m (11 ft) long well screen assembly containing a K-type packer at the top at 11.6 m (38 ft) and 3.0 m (10 ft) of 200 mm (8") nominal diameter Johnson stainless steel well screen with 5.08 mm (0.200") slots. The bottom of the well screen assembly, which is set from 11.6 to 14.9 m (38 to 49 ft), is closed with a bail bottom.

Well Performance: Constant-rate pumping at 13.57 lps (215 USgpm) on August 9, 1979, caused maximum drawdown of 4.07 m (13.36 ft), giving a specific capacity of 3.33 lps/m (16.1 USgpm/ft).

Well Capacity: Following installation, the capacity of Emerald Estates Well 1-79 was rated at 13.9 to 14.2 lps (220 to 225 USgpm), based on the August 1979 pumping test results and the usual 30% factor of safety on the drawdown.

## **Appendix 1.3 Well Assessment Form**

	BRITISH COLUMBIA
-	COLUNIDIC

Ministry of Health and Ministry Responsible for Seniors Lands and Parks

Ministry of Environment,

### **WELL ASSESSMENT FORM**

IMPORTANTI Please complete one form for each ground water source used in your water system. Fili in available information.

If missing information, it may be advisable to contact the Ministry of Environment, Lands and Parks' Groundwater Section [(250) 387-1115], or the local driller who drilled the well, to assist. Photocopy this form as necessary.

	DAE	TI. WE	II GVG	TEM ()	FORMAT	ION (F	eier t	o Ster	2 1)		
MIATE	SYSTEM LEGAL NAME	TI: WE	LL GIG		LEGAL DE	SCRIPTION	OF WELL LO	CATION			
	MERALD	W	1201	- 2	W.	side	HW	490	9 Ma	r Eme	rald
	ASYSTEMLEGAL ADDRESS MCVAID ESTA					25		•	99		
1 44775		HOW WERE LO	OCATION CO	ORDINATES	DETERMINED?				(:200)	<u> </u>	
50	1220 55/ 36.5	GPS				survey (	digitized	l from	1:2000	map (s	pecify scale)
UTM C	COORDINATES	HOW MANY OF WELLS MAKE! WATER SYSTE	UP THE	2	ALSO USE	WATER SYS A SURFACE URCE? (des		No	2		
NUMB	ER OF CONNECTIONS	POPULATION:		VATER USE				<b>.</b>		(specify)	
Maxim	um Actual			domestic	Irrigatio	` [_ ∞	mmercial	Indu			===
WIN N	802		EMS NO.	<i>-</i>	23	<b></b>			B058		
	Contact your local O. = MoELP's metal tag affixed to the we cation.	Ministry of E	nvironment EMS NO. = ( their databa	MoELP's site	I Parks office on the vice of	r local Hea rater chemis	aith Unit fo try on BC	r the folk WELL TAG	owing informa i NO. = MoELP's	tilion: s computer numbe	r for the well.
В	alk supply 🔀 yes 🗌 no	Back-up sup	xpty 🔲 )	nes 🔲 n	o Emergeno	y supply	yes	Пио	<u> </u>	d yes	no no
E E	WELL OPERATOR OW									932 5	
OWNER / OPERATOR INFORMATION	WELL OPERATOR'S ADDRESS BL	ALKC	OME	3 N	1A4,	WHI	ISTL	ER			
OWNER	WELL OWNER	· · · · · · · · · · · · · · · · · · ·							( )	ER'S PHONE NO.	
WELL	WELL OWNER'S ADDRESS										
	PART II:	WELL (	CONST	RUCTIO	N INFOF	MATIC	N (Re	ter to	Step 1)		
WELL	DRILLER'S NAME, COMPANY AND ADDI	ress NEUS (	(1986)	) LTD		TAL CODE	16-7	2	DATE WELL ORIGINALLY CONSTRUCT	**** ED 1999 :	MM DD
	25188 - 52nd		`		1 .	L-DRILLER'S			<u> </u>	YYYY	MM DD
	Aldergrove, BC	,,			!	604)8			RECONSTRU		061-
TYPE	OF WELL	<del></del>	METHOD O	F DRILLING					J	WELL LOG AVA	MLABLE?
N			rotary	cohlo	driven	etted	othe (spe	r iolfy)		yes (attac	th) no
	HOF WELL	DIAMETER OF	WELL		SCREEN L	ENGTH			1	OP OF SCREEN	
10	morft.		m or		In			ft.	1 —	m or	ft.
	CAPACITY	LOCATION	OF WATER-	BEARING FR	ACTION(S) (for b	edrock wells	):	1		R-BEARING FRA	Igpm
	10.7 Us or Iggor	<u> </u>				Dr. OF N				L/s or	<del></del>
	HEAD ENCLOSURE ump house manhole (sp	er pitle	:55 ad. [		rouled to <u>U</u>		or	ft.		ace seal [2]	itless adapter
AVER	AGE PUMPING RATE	1		ATE DETERM	IINED?			.	DEPTH OF INTA	orft	PUMPAGE
	L/s or igpm									<u></u>	<del>اـــا</del>
ANNU	AL VOLUME OF WATER PUMPED	HOW WAS	VOLUME PU	MPED DETE	RMINED?						
	Lorigal	nja			TO THE DIMANUA	C EOI IIDMEI	NT? (one-H	<u> </u>			
	ING CAPACITY	ı	IGES OR REI	PAIRS MADE	TO THE PUMPIN	G CUVIPME!	itti japouli	,			
	O. † L/s or Igpn	<u> </u>				STORAGE	E CAPACIT			COMMON INLET	OR OUTLET?
_	OF STORAGE ank(s) reservoir other					0.512.01	L		Igal	yes	<u></u>
ATTAC	HED INFORMATION refl log drawings reports	pump te	est data	water qual	ity data	NOTE:	H no well	log is av	construction	e attach any o (i.e., "as built	her records * drawings,

PART	III: HYDROGE	OLOGIC	INFO	RMATIC	) NC	Refer to	Step:	s 1 ar	nd 2)		
DEPTH TO PUMPING WATER LEVEL	DEPTH TO NON-PUR	IPING WATER		HOW WAS WAT	TER LE	VEL MEASUF	RED?				
m or	n 4.72 m		<u> </u>	weil lo		wetted tap	حب.	_	transducer		200105
IF WELL IS FLOWING, WHAT IS THE ARTES	HOW IS PRESSURE	HEAD AND FLO	OW MEAS	URED? (specif)	ן מ	IF SOURCE IS IMPOUNDME	S A FLOWING NT OR RESE	9 WELL O	R SPRING, IS	THERE A ST WITH THIS SC	OHAGE?
	n.					yes (sp	ecify)				vo
WELLHEAD ELEVATION (height above of	nean sea level) HOW W	AS ELEVATION	DETERM	INED?		- man lenge	ity ecolo	C oth			
640 mor	ft. sur	vey 🔲 alti	imeter [	topographi	6 [	and conto	ır interval)	L (sp	edily)		
TYPE OF CONFINING LAYER FROM WEI LOG (e.g., clay, till)	LOCATION OF CONFILLAYER AT DEPTH	NING m or	اند	THICKNESS OF CONFINING LA FROM WELL LO	YER	m or		HOW LAT	ERALLY EXTE	NSIVE IS CO	MFINING
	F AQUIFER					AQUIFER CLA	ASSIFICATIO	N	AQUIFER C	LASSIFICATION	ON
WITH A KNOWN AQUIFER?	ERAND (	ESTA	TE3				90		IB	(12	.)
TYPE OF AQUIFER		ARE THERE O	THER HIG	H-CAPACITY	THE	/ /es		ANNL	IAL PIAINFALL		
unconsolidated, unconsolidated unconfined	dated, bedrock	WELLS, 30 L/s (agricultural, m Industrial), LOC RADIUS OF TH	unicipal a CATED WIT	nd/or NHN A 300-m	How	many?	1	1	29	or	in.
AQUIFER TRANSMISSIVITY	HOW WAS TRA		DETERMI	NED?							
m²/d or	introduct C	oumping test		n specific capa	city [	other (sp	pecify)				
HYDRAULIC GRADIENT		well water leve	ts 📋	from topograph		other (spe					
PLEASE IDENTIFY OR DESCRIBE ADDITIONAL SOURCE, WHERE POSSIBLE, REFEREN	TIONAL HYDROLOGIC OR	GEOGRAPHIC	CONDITIO	ONS THAT YOU	BELIE	VE MAY AFFE	CT THE SH	APE OF T	HE CAPTURE	ZONÉ FOR 1	THIS .
SOUNCE, WHERE POSSIBLE, REFEREN	IVE THEM TO LOCATIONS	OR THE MAI	. 1100000	HT1/7(11 14.							
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						•••••	•••••	:			
	T IV: ASSESS	MENT (	)F WA	TER QU	ALI	TY (Ref	er to S	tep 1	ED NEW WE	L CONSTRI	ICTED?
1 HOW LONG HAS THE WATER SYSTE	em been in existence? 1979				.— Wh≀		N DEEFENE	D, OCEA+	CO, NEW W.		☐ no
3 IN THIS TIME, HAVE THERE BEEN ANY WATER QUALITY PROBLEMS?	IF YES, WHEN AND WHA WAS THE CAUSE OF TH										
yes \no don't	PREVIOUS PROBLEMS (i.e., drought, pump fallu	ire,									
L J 752 L Know	plugging, increased usage interference, contaminate										
IF CONTAMINATION: • WHAT WATER	QUALITY CHANGES WERE	APPARENT (I.	.e., taste,	colour, turbidity	, other	)? • WHAT	ACTION WAS	S TAKEN T	TO OVERCOM	E THIS PRO	BLEM?
• WHAT WERE TI	HE EFFECTS OF THIS ACT	ION?									
											• • • • • • • • • • • • • • • • • • • •
								• • • • • • • • • • • • • • • • • • • •			
***************************************											
41		BACTE	RIAL CO	DNTAMINAT	TION						
ANY BACTERIAL DETECTION(S) IN THE	PAST 3 YEARS	ves	√2 no	HAVE THERE	BEEN	SAMPLING F	ROTOCOLS	OR QAO	ac	yes yes	n
BASED ON SOURCE-MONITORING REC HAS SOURCE (IN PAST 3 YEARS) HAD A	OADS?		<u></u>	ESTABLISHE IF YES, WHA		THEY?				- <u>=</u>	
CONTAMINATION PROBLEM FOUND IN I	DISTRIBUTION SAMPLES	yes	<b>⊠</b> no	bine	ec	ly	ana	Jy.	S15	tor	
WAS THE BACTERIOLOGICAL CONTAMI THE SOURCE?	NATION DUE TO	yes yes	no no	coli	for	m l	pact	via			
WAS THE BACTERIOLOGICAL CONTAMI CROSS-CONNECTIONS?	NATION DUE TO	yes	По	annu	ial	Lan	alys	15	fı	<b>Y</b>	. , <i></i>
IS THE WELL AVAILABLE FOR DIRECT S	AMPLING?	X yes	no	pota	<u>ab</u>	ility					
				quar	ter	14 4	anal	451	's t	<b>5</b> Y	
ILTH 160, page 2 of 4 99/03/18				TA	<i>r</i> .	اررار	+11	ס'כ	bac	huin	
				11/1		$a \cup a$	111		V211112		

## **Appendix 1.3 Well Assessment Form (continued)**

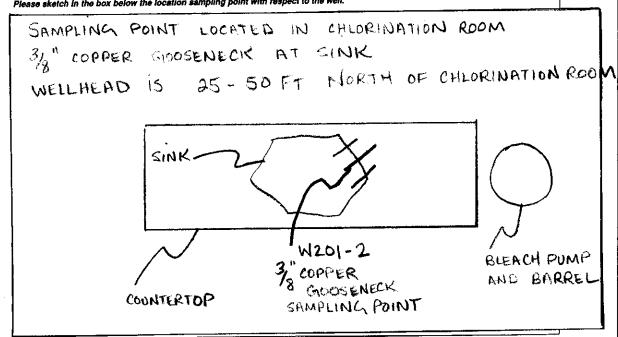
SOURCE-SPECIFIC WATER QUALITY RECORDS (Refer to Step 1)

Please indicate the occurrence of any test results in the last 10 years that meet the following conditions:

PARAMETER	RECURRING PROBLEMS	TEST RESULTS	EXCEEDENCES OF CDWQG1
Bacteriological Total/Faecal Coliforms Background Heterotrophic plate counts Iron and Sulphate Reducers	NONE		
Disinfection by-products Bromodichloromethane Dibromochloromethane Chloroform	NONE		
Physical Parameters pH, colour, alkalinity, specific conductance, hardness, total dissolved solids, total organic carbon, turbidity	elevated turbidity	1.3-23 NTU	
horganic Parameters Nitrates, fluoride, sulfate, sulphide, ammonia, chloride, nitrite, nitrogen (organic)	NONE		
Metals* Calcium, iron, magnesium, manganese, sodium	elevated aluminum / iron	A1 = 0.33 Fc = 0.389	> AD NOT >MAC

<sup>1</sup> Canadian Drinking Water Quality Guidelines, 6th edition

Please sketch in the box below the location sampling point with respect to the well.



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<sup>\*</sup>A metal scan is usually performed every 3 years at least, and includes aluminum, arsenic, barium, cadmium, chromium, copper, lead, molyodenum, nickel, phosphorus, silver and zinc.

## **Appendix 1.3 Well Assessment Form (continued)**

PAKIY: WA	TER TRE	ATMENT	inform/	ATION (R	erer to	arch ii		
IS THIS SOURCE TREATED?   IF YES, TYPE OF TREAT						other		
yes no Sdisknfection	filtration	carbon filter	air stripper	water so	oftener	(specify) _		
PURPOSE OF TREATMENT	1 -	.1		, ,,				
disinfiction o	1 ari	nking	wan	<b>y</b> 50	PP	1		
IF SOURCE IS CHLORINATED, Total Chlorine IS A CHLORINE RESIDUAL MAINTAINED?  P	pm <u>0,3</u>	Chlorine Ppm	WHAT IS THE	RESIDUAL LEVE	C OF THEAT	MEN!?		
S THERE ANY WATER STORAGE IN THE SYSTEM?	Ž√es [	no	IS THE WATER	R TREATMENT B LE UNIT?	EFORE OR A	FTER	before	after
WHAT IS THE TOTAL AND Total Chlorine FREE CHLORINE IN THE DISTRIBUTION SYSTEM?	Free 0.7	Chlorine D ppm	CHLORINE AL	Y ADDITIONAL DDED AFTER (rechlorination)	1	tal Chlorine	pm   _	Free Chlorine
WHAT TYPE OF CHEMICALS ARE USED IN THIS PROCE	SS? (specify)		WHERE ARE	CHEMICALS STO	RED?			
	n pump house			ED FROM THE W	rell? hemi	cals		
PART VI: MAPPING THE				COMMUN	ITY WE	ELL (Re	fer to S	itep 2)
A map (1:5000 to 1:20,000 are typical	scales) will L	e needed t						
Multiple wells in the same area can be	piotted on	one map.	c					
CIRCULAR CAPTURE ZONE (refer	to Appendix 2 RADIUS (m)	.1)	Downgradien	LRABOLIC CA	PTURE ZO	Width of	o Appena	IX 2.2)*
Arbitrary Fixed Radius	D. L.		distance	` <del></del>	m	capture zon	e <u></u>	m
700	ririai	<u> </u>	Is there a r	ver, lake, pond,	stream or of	ther obvious	yes (	dentify on map)
(1-year travel time)* PCP ov	*		boundary?	er body within the		MUS OF HEAST	19Q	
ਤੁਨੂੰ (5-year travel time)* D	ec.	20 <b>0</b> 3	Is there a st	formwater and/o	r wastewate	r facility,	yes (	dentify on map)
(10-year travel time)*			6-month tim	goon or holding se of travel boun	dary?	ed within the	no	
DAR	T VII: SO	URCE SU	RVEY (R	efer to Si	len 3l			-
REGIONAL SOURCES OF RISK TO GROUND WATER		of contamina	ition within i	the capture z	one.	see	201	- (
REGIONAL SOURCES OF RISK TO GROUND WATER	ntial sources	of contamina	tion within	the capture z	one.		201	-[
REGIONAL SOURCES OF RISK TO GROUND WATER Please Indicate If any of the following pote ACTIVITY	ntial sources				one.			-1
REGIONAL SOURCES OF RISK TO GROUND WATER Please indicate if any of the following pole	ntial sources				one.			-1
REGIONAL SOURCES OF RISK TO GROUND WATER Please Indicate II any of the following pole  ACTIVITY  Chemical Storage (specify)  Injection wells	ntial sources				one.			-1
REGIONAL SOURCES OF RISK TO GROUND WATER Please Indicate It any of the following pole  ACTIVITY  Chemical Storage (specify)  Injection wells  Abandoned wells	ntial sources				one.			-1
REGIONAL SOURCES OF RISK TO GROUND WATER Please Indicate It any of the following pole  ACTIVITY  Chemical Storage (specify)  Injection wells  Abandoned wells	ntial sources				one.			-1
REGIONAL SOURCES OF RISK TO GROUND WATER Please Indicate If any of the following pote  ACTIVITY  Chemical Storage (specify) Injection wells  Abandoned wells  Landfills, dumps, disposal areas  Commercial/industrial sites	ntial sources				one.			-(
REGIONAL SOURCES OF RISK TO GROUND WATER Please Indicate It any of the following pole  ACTIVITY  Chemical Storage (specify) Injection wells  Abandoned wells  Landfills, dumps, disposal areas  Commercial/industrial sites  Known hazardous materials clean-up site	ntial sources				one.			-1
REGIONAL SOURCES OF RISK TO GROUND WATER Please Indicate II any of the following pole  ACTIVITY  Chemical Storage (specify)  Injection wells  Abandoned wells  Landfills, dumps, disposal areas	ntial sources				one.			-1
REGIONAL SOURCES OF RISK TO GROUND WATER Please Indicate If any of the following pole  ACTIVITY  Chemical Storage (specify) Injection wells Abandoned wells  Landfills, dumps, disposal areas  Commercial/industrial sites  Known hazardous materials clean-up site  Household hazardous waste  Population density > 2 houses per hectare	ntial sources				one.			-1
REGIONAL SOURCES OF RISK TO GROUND WATER Please Indicate If any of the following pole  ACTIVITY  Chemical Storage (specify) Injection wells Abandoned wells  Landfills, dumps, disposal areas  Commercial/industrial sites  Known hazardous materials clean-up site  Household hazardous waste  Population density > 2 houses per hectare  Cn-site sewage treatment	ntial sources				one.			-(
REGIONAL SOURCES OF RISK TO GROUND WATER Please Indicate II any of the following pole  ACTIVITY  Chemical Storage (specify) Injection wells Abandoned wells Landfills, dumps, disposal areas  Commercial/industrial sites  Known hazardous materials clean-up site  Household hazardous waste	ntial sources				one.			-1
REGIONAL SOURCES OF RISK TO GROUND WATER Please Indicate If any of the following pole  ACTIVITY  Chemical Storage (specify) Injection wells Abandoned wells Landfills, dumps, disposal areas  Commercial/industrial sites  Known hazardous materials clean-up site Household hazardous waste Population density > 2 houses per hectare  Cn-site sewage treatment  Wastewater treatment facility	ntial sources				one.			-(
REGIONAL SOURCES OF RISK TO GROUND WATER Please Indicate If any of the following pole  ACTIVITY  Chemical Storage (specify) Injection wells Abandoned wells Landfills, dumps, disposal areas  Commercial/industrial sites  Known hazardous materials clean-up site Household hazardous waste  Population density > 2 houses per hectare  On-site sewage treatment  Wastewater treatment facility  Sites used for land application of waste  Golf course	ntial sources				one.			-(
REGIONAL SOURCES OF RISK TO GROUND WATER Please Indicate If any of the following pole  ACTIVITY  Chemical Storage (specify) Injection wells Abandoned wells Landfills, dumps, disposal areas  Commercial/industrial sites  Known hazardous materials clean-up site Household hazardous waste Population density > 2 houses per hectare On-site sewage treatment  Wastewater treatment facility  Sites used for land application of waste Golf course Dairy or beef farms	ntial sources				one.			
REGIONAL SOURCES OF RISK TO GROUND WATER Please Indicate II any of the following pole  ACTIVITY  Chemical Storage (specify) Injection wells Abandoned wells Landfills, dumps, disposal areas  Commercial/industrial sites  Known hazardous materials clean-up site Household hazardous waste Population density > 2 houses per hectare  On-site sewage treatment  Wastewater treatment facility  Sites used for land application of waste Golf course Dairy or beef farms  Poultry barns	ntial sources				one.			
REGIONAL SOURCES OF RISK TO GROUND WATER Please Indicate If any of the following pole  ACTIVITY  Chemical Storage (specify) Injection wells Abandoned wells Landfills, dumps, disposal areas  Commercial/industrial sites  Known hazardous materials clean-up site Household hazardous waste Population density > 2 houses per hectare On-site sewage treatment  Wastewater treatment facility  Sites used for land application of waste Golf course Dairy or beef farms Poultry barns Hobby farms	ntial sources				one.			
REGIONAL SOURCES OF RISK TO GROUND WATER Please Indicate If any of the following pole  ACTIVITY  Chemical Storage (specify) Injection wells  Abandoned wells  Landfills, dumps, disposal areas  Commercial/industrial sites  Known hazardous materials clean-up site  Household hazardous waste Population density > 2 houses per hectare  On-site sewage treatment  Wastewater treatment facility  Sites used for land application of waste  Golf course  Dairy or beef farms  Poultry barns  Hobby farms  Fields: vegetables, hay, fruit (specify)	ntial sources				one.			
REGIONAL SOURCES OF RISK TO GROUND WATER Please Indicate If any of the following pole  ACTIVITY  Chemical Storage (specify) Injection wells  Abandoned wells  Landfills, dumps, disposal areas  Commercial/industrial sites  Known hazardous materials clean-up site  Household hazardous waste  Population density > 2 houses per hectare  On-site sewage treatment  Wastewater treatment facility  Sites used for land application of waste  Golf course  Dairy or beef farms  Poultry barns  Hobby farms  Fields: vegetables, hay, fruit (specify)  Mining operations	ntial sources				one.			
REGIONAL SOURCES OF RISK TO GROUND WATER  Please Indicate If any of the following pole  ACTIVITY  Chemical Storage (specify) Injection wells  Abandoned wells  Landfills, dumps, disposal areas  Commercial/industrial sites  Known hazardous materials clean-up site  Household hazardous waste  Population density > 2 houses per hectare  On-site sewage treatment  Wastewater treatment facility  Sites used for land application of waste  Golf course  Dairy or beef farms  Poultry barns  Hobby farms  Fields: vegetables, hay, fruit (specify)  Mining operations  Gravel pits	T.O.T. NOT SPECIFIED	1-YEAR	5-YEAR	10-YEAR		COL		
REGIONAL SOURCES OF RISK TO GROUND WATER  Please Indicate If any of the following pole  ACTIVITY  Chemical Storage (specify) Injection wells Abandoned wells Landfills, dumps, disposal areas  Commercial/industrial sites  Known hazardous materials clean-up site Household hazardous waste Population density > 2 houses per hectare On-site sewage treatment  Wastewater treatment facility  Sites used for land application of waste Golf course Dairy or beef farms Poultry barns Hobby farms Fields: vegetables, hay, fruit (specify)  Mining operations  Gravel pits  Mark and identify on map any of the potentic	T.O.T. NOT SPECIFIED	1-YEAR	5-YEAR	10-YEAR	oture zone	boundary.	MMENTS	
REGIONAL SOURCES OF RISK TO GROUND WATER  Please indicate if any of the following pole  ACTIVITY  Chemical Storage (specify) Injection wells  Abandoned wells  Landfills, dumps, disposal areas  Commercial/industrial sites  Known hazardous materials clean-up site  Household hazardous waste  Population density > 2 houses per hectare  On-site sewage treatment  Wastewater treatment facility  Sites used for land application of waste  Golf course  Dairy or beef farms  Poultry barns  Hobby farms  Fields: vegetables, hay, fruit (specify)  Mining operations  Gravel pits  Mark and identify on map any of the potentic	T.O.T. NOT SPECIFIED  Al sources lister  SEPTIC FIELD	1-YEAR	5-YEAR	within the cap	oture zone	boundary	MMENTS  POSAL SY81	
REGIONAL SOURCES OF RISK TO GROUND WATER  Please indicate if any of the following pole  ACTIVITY  Chemical Storage (specify) Injection wells  Abandoned wells  Landfills, dumps, disposal areas  Commercial/industrial sites  Known hazardous materials clean-up site  Household hazardous waste  Population density > 2 houses per hectare  On-site sewage treatment  Wastewater treatment facility  Sites used for land application of waste  Golf course  Dairy or beef farms  Poultry barns  Hobby farms  Fields: vegetables, hay, fruit (specify)  Mining operations  Gravel pits  Mark and identify on map any of the potentic	T.O.T. NOT SPECIFIED  Al sources lister  SEPTIC FIELD	1-YEAR	5-YEAR	10-YEAR	oture zone	boundary	MMENTS	

WELL PROTECTION TOOLKIT - STEP ONE

## RESORT MUNICIPALITY OF WHISTLER - EMERALD ESTATES WELL NO. 2-99

W201-2

Location: On the west side of Highway 99, in the Emerald Estates Subdivision on the west side of

Green Lake opposite Parkhurst. Well No. 2-99 is located approximately 50 m (165±1 ft)

north of Well No. 1-79.

Contractor: Columbia Water Wells (1986) Ltd.

Date of Installation: September to November 1999.

### Driller's Litholog:

	· ·		
0.0 - 3.7	m ( 0	- 12 ft)	cobbles and boulders, some coarse gravel
3.7 - 6.1	m ( 12	- 20 ft)	cobbles and coarse gravel; tight
6.1 - 8.5	m (20	- 28 ft)	coarse gravel, sand and cobbles; gravel is broken
8.5 - 11.6	m (28	- 38 ft)	coarse gravel, coarse sand and cobbles (casing driving a little easier)
11.6 - 14.6	m (38	- 48 ft)	coarse gravel, coarse sand and cobbles; gravel is angular and sharp
14.6 - 15.8	m ( 48	- 52 ft)	coarse gravel with more coarse sand, loose; making water, silty grey wash
15.8 - 17.1	m ( 52	- 56 ft)	coarse gravel with more coarse to fine sand and coarse sharp angular gravel; brown wash and tighter
17.1 - 19.5	m ( 56	- 64 ft)	coarse gravel, coarse to fine sand and cobbles with more round gravel, loose; more water
19.5 - 20.1	m (64	- 66 ft)	brown fine to medium sand; rusty wash
20.1 - 20.4	m (66	- 67 ft)	fine to medium sand containing some stones
at 20.4 m	at 6	67 ft)	green-coloured bedrock.

Static Water Level: 4.72 m (15.50 ft), referenced to ground on November 24, 1999.

Diameter: 250 mm (10"), with a 0.6 m (2.1 ft) stickup above ground; a bentonite surface seal around the well casing extends from surface to 4.7 m (15.4 ft).

Completion: EE Well No. 2-99 is completed with an 3.6 m (11.9 ft) long assembly of Johnson stainless steel, 250 mm (10") nominal diameter (telescopic) screen, as follows:

at top at 16.0 m (52.6 ft)

2.4 m (8 ft) of

0.6 m (2 ft) of

at bottom at 19.6 m (64.3 ft)

K-type packer and 0.3 m (1 ft) of "O" wind, of total length 0.46 m (1.5 ft)

5.08 mm (0.200") slot screen

blank pipe

flat steel plate.

## **Appendix 1.3 Well Assessment Form**

BRITISH	
COLUMBI	2

Ministry of Health and Ministry of Environment, Ministry Responsible for Seniors Lands and Parks

### **WELL ASSESSMENT FORM**

TO BE USED WITH THE WELL PROTECTION TOOLKIT.

IMPORTANTI Please complete one form for each ground water source used in your water system. Fill in available information. If missing information, it may be advisable to contact the Ministry of Environment, Lands and Parks' Groundwater Section [(250) 387-1115], or the local driller who drilled the well, to assist. Photocopy this form as necessary.

DA	RT I: WELL SYSTEM	INFORMATI	ON (Refer to Ste	o 1)
WATER SYSTEM LEGAL NAME	-	LEGAL DES	CRIPTION OF WELL LOCATION	
EMERALD EST	MITES WZOI	-3 NORTH	EAST OF	201-1
WATER SYSTEM LEGAL ADDRESS				5 Hwy. 99.
EMERALD EST	HOW WERE LOCATION COORDING	ATEO DETERMINED?	122 -	7 11.00 1
LATTTUDE / LONGITUDE			urvey 🔀 digitized from	1:2000 map (specify scale)
509139.71/172055135.71			ATER SYSTEM	
UTM COORDINATES	HOW MANY OTHER WELLS MAKE UP THE WATER SYSTEM?	ALSO USE A WATER SOU		other (specify)
NUMBER OF CONNECTIONS	POPULATION SERVED WATER		commercial indi	istrial
Maximum Actual	⊠ don	Mean: Inflation	WELL TAG N	
WIN NO.	EMS NO.	CNOWN	1	
Contact your loca	Ministry of Environment, Land	s and Parks office or	local Health Unit for the foli	owing information:
WIN NO MoELP's metal tag affixed to the v	vell for on-site EMS NO. = MoELP's their database.	s site number for the wa	er chemistry on BC WELL IAV	MO = MOSTL & COMPANY MONDER for ANY
Identification.  Bulk supply X yes no	Back-up supply yes	no Emergency	supply yes no	Metered 🔯 yes 🗌 no
WELL OPERATOR				WELL OPERATOR'S PHONE NO.
				(604) 932 5535
E - WELL COSPATORIS ADDRESS			and the man	
4325 BU	tekcomb	WAY,	WHISTL	
SE WELL OWNER	is above			WELL OWNER'S PHONE NO.
E E	is about			
WELL OWNER'S ADDRESS			<del> </del>	
1 - 1	<u></u>			
PART II	: WELL CONSTRUC	TION INFOR	NATION (Refer to	Step 1)
WELL-DRILLER'S NAME, COMPANY AND ADD	DRESS	,	AT CODE	DATE WELL YYYY MM DD ORIGINALLY
FIELD DRILLING	- CONTRACTOR	<2 1/12	W 2VI	CONSTRUCTED 2000 10 120
Box 841, 25320	Fraser Highw	CAY WELL	DRILLER'S TELEPHONE NO.	YYYY MM DO
Aldergrove BC	.,	16	ot)857 2266	DATE OF LAST RECONSTRUCTION
maigrate 20		i 😘	100 1 2000	
TYPE OF WELL	METHOD OF DRILL	ING	Other	WELL LOG AVAILABLE?    Ves (attach)   no
drilled dug (specify)	rotary 🔀	cable driven [	(specify)	
DEPTH OF WELL	DIAMETER OF WELL	SCREEN LE	7	DEPTH TO TOP OF SCREEN  8.9 m or ft.
<u>/5.2</u> mor tt.	m or	in.		
WELL CAPACITY	LOCATION OF WATER-BEARIN	G FRACTION(S) (for bed	irock wells):	YIELD OF WATER BEARING FRACTION(S)
31.6 Us or Igp	m			L/s or Igpm
WELLHEAD ENCLOSURE	PINESS	SURFACE SANITAR	YSEAL (*) mor 11.	no surface seal pittess adapter
	pecify) ADAPTEK I non	e grouted to #-		DEPTH OF INTAKE SETTING PUMP AGE
AVERAGE PUMPING RATE	HOW WAS PUMPING RATE DE	TERMINED?	].	m or ft.
L/s or lgp				
ANNUAL VOLUME OF WATER PUMPED	HOW WAS VOLUME PUMPED	DETERMINED?		
LorIgal	NC		EOLIBRICHTS (mark)	
PUMPING CAPACITY	ANY CHANGES OR REPAIRS N	MADE TO THE PUMPING	ECONTMENT (Specify)	
31.6 L/s or lop	m		STORAGE CAPACITY	COMMON INLET OR OUTLET?
TYPE OF STORAGE			Lor	Igal yes no
ank(s) reservoir (specify	j		MOTE Kee well lee in m	allable place attach any other records
ATTACHED INFORMATION    Well log   drawings   reports	pump test data wate	or quality data	NOTE: If no well log is av documenting well engineering repor	construction (i.e., as built oranings,
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PART	III: HYDROGEOLOGIC	NFORMATION	(Refer to Steps	1 and 2)
DEPTH TO PUMPING WATER LEVEL	DEPTH TO NON-PUMPING WATER LE		LEVEL MEASURED?	,
m or	t. 2.2 mor	t. mett log	wetted tape probe	
IF WELL IS FLOWING, WHAT IS THE ARTE PRESSURE HEAD AND FLOW?	SIAN HOW IS PRESSURE HEAD AND FLOY	MEASURED? (specify)	IF SOURCE IS A FLOWING V	VELL OR SPRING, IS THERE A STORAGE VOIR ASSOCIATED WITH THIS SOURCE?
m or	n		yes (specify)	no
WELLHEAD ELEVATION (height above	mean sea level) HOW WAS ELEVATION D		map (specify scale	other
(AO mor	ftsurveyaltime	eter X topographic	and contour interval)	(specify)
TYPE OF CONFINING LAYER FROM WE LOG (e.g., day, till)	LOCATION OF CONFINING LAYER AT DEPTH FROM WELL LOG m or	THICKNESS OF CONFINING LAYER FROM WELL LOG		W LATERALLY EXTENSIVE IS CONFINING /ER?
AND THE RESIDENCE OF THE PARTY	DERALD ESTATE	3	AQUIFER CLASSIFICATION NUMBER (from MoELP)	AQUIFER CLASSIFICATION (from MoELP)  IB (12)
TYPE OF AQUIFER  unconsolidated, unconsol confined	kdated, bedrock (agricultural, mun	icipal and/or Ho	yes w memy?	ANNUAL RAINFALL  1229 m or in.
AQUIFER TRANSMISSIVITY	HOW WAS TRANSMISSIVITY DE			
	igpd/ft.  from pumping test	from specific capacity	ather (specify)	
HYDRAULIC GRADIENT	HOW WAS HYDRAULIC GRADIEI from well water levels	from topography	other (specify)	
PLEASE IDENTIFY OR DESCRIBE ADDI SOURCE, WHERE POSSIBLE, REFEREI	TIONAL HYDROLOGIC OR GEOGRAPHIC CO NCE THEM TO LOCATIONS ON THE MAP PR	ONDITIONS THAT YOU BEL ODUCED IN PART IV.	NEVE MAY AFFECT THE SHAPE	UF THE CAPTURE ZONE FOR THIS
		***************************************		
			***************************************	***************************************
			\	
See D.L	eas report (	Nac 20	03	
	2000 19011		<i></i>	
***************************************				
,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,				·
				***********
		•		
PAF	IT IV: ASSESSMENT OF	WATER QUAL	ITY (Refer to Ste	p 1)
1 HOW LONG HAS THE WATER SYSTE	EM BEEN IN EXISTENCE?			LEANED, NEW WELL CONSTRUCTED?
aubust	1979	yes — W	hy?	
3 IN THIS TIME, HAVE THERE BEEN ANY WATER QUALITY PROBLEMS?	IF YES, WHEN AND WHAT WAS THE CAUSE OF THESE			
	PREVIOUS PROBLEMS			
Aes uo truom	(i.e., drought, pump fallure, plugging, increased usage, interference, contamination)?	***************************************		
IF CONTAMINATION: + WHAT WATER O	CUALITY CHANGES WERE APPARENT (I.e.,	taste, colour, turbidity, othe	er)? • WHAT ACTION WAS TA	KEN TO OVERCOME THIS PROBLEM?
***************************************				
.,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,		***************************************		
······································				
				,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,
	.,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	.,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	***************************************	
	·		<u> </u>	
	BACTERIA	L CONTAMINATION		ł
<u> </u>				
ANY BACTERIAL DETECTION(S) IN THE	PAST 3 YEARS WAS TX	no HAVE THERE BEE ESTABLISHED?	N SAMPLING PROTOCOLS OR	QA/QC Yes no
ANY BACTERIAL DETECTION(S) IN THE BASED ON SOURCE-MONITORING RECO HAS SOURCE (IN PAST 9 YEARS) HAD A CONTAMINATION PROBLEM FOUND IN D	PAST 3 YEARS PAST 3 YEARS PAGE 7  PAGE	ESTABLISHED?		
ANY BACTERIAL DETECTION(S) IN THE BASED ON SOURCE-MONITORING RECVIAS SOURCE (IN PAST 3 YEARS) HAD A CONTAMINATION PROBLEM FOUND IN DITHAT WAS ATTRIBUTED TO THE SOURCE WAS THE BACTERIOLOGICAL CONTAMIN	PAST 3 YEARS yes	ESTABLISHED?	THEY?	
ANY BACTERIAL DETECTION(S) IN THE IBASED ON SOURCE MONITORING RECV HAS SOURCE (IN PAST 3 YEARS) HAD A CONTAMINATION PROBLEM FOUND IN ETHAT WAS ATTRIBUTED TO THE SOURCE WAS THE BACTERIOLOGICAL CONTAMINITIES SOURCE?  WAS THE BACTERIOLOGICAL CONTAMINED THE SOURCE?	PAST 3 YEARS PAST	no ESTABLISHED?  NF YES, WHAT ARE	kly anal m bachia	
ANY BACTERIAL DETECTION(S) IN THE BASED ON SOURCE-MONITORING RECOMES SOURCE (IN PAST 3 YEARS) HAD A CONTAMINATION PROBLEM FOUND IN DITHAT WAS ATTRIBUTED TO THE SOURCE WAS THE BACTERIOLOGICAL CONTAMINE SOURCE? WAS THE BACTERIOLOGICAL CONTAMINES THE BACTERIOLOGICAL CONTAMINES THE BACTERIOLOGICAL CONTAMINES CONSCIONNECTIONS?  S THE WELL AVAILABLE FOR DIRECT SA	PAST 3 YEARS SHDS7  SHDS7  PAST 3 YEARS SHDS7  Yes  XHDS7  Yes  XHDS7  Yes  XHDS7  XHDS7  XHDS7  Yes  XHDS7   no coutor	kly anal m bachia	ysis for annual	

### **Appendix 1.3 Well Assessment Form (continued)**

SOURCE-SPECIFIC WATER QUALITY RECORDS (Refer to Step 1)

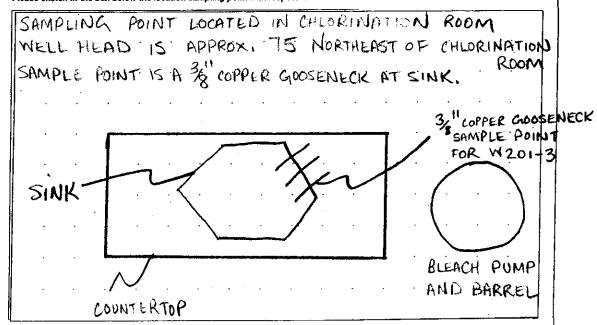
Please indicate the occurrence of any test results in the last 10 years that meet the following conditions:

PARAMETER	RECURRING PROBLEMS	TEST RESULTS	EXCEEDENCES OF CDWQG 1
Bacteriological Total/Faecal Coliforms Background Heterotrophic plate counts Iron and Sulphate Reducers	NONE		
Disinfection by-products Bromodichloromethane Dibromochloromethane Chloroform	NONE		·
Physical Parameters pH, colour, alkalinity, specific conductance, hardness, total dissolved solids, total organic carbon, turbidity	NONE		
Inorganic Parameters Nitrates, fluoride, sulfate, sulphide, ammonia, chloride, nitrite, nitrogen (organic)	NONE		
Metals* Calcium, iron, magneslum, manganese, sodium	NONE		

<sup>1</sup> Canadian Drinking Water Quality Guidelines, 6th edition

\* A metal scan is usually performed every 3 years at least, and includes aluminum, arsenic, barium, cadmium, chromium, copper, lead, molybdenum, nickel, phosphorus, silver and zinc.

Please sketch in the box below the location sampling point with respect to the well.



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# Appendix 1.3 Well Assessment Form (continued)

PAI	RT V: WA	TER TRE	ATMENT	INFORM/	ATION (Re	fer to Sta	p 1)
IS THIS SOURCE TREATED?   IF YES	TYPE OF TREAT					othe	r
yes no Add	sintection	filtration	carbon filter	air stripper	water soft		city)
PURPOSE OF TREATMENT  disinfiction	n pf	drink	1119 V	Nater	suppl	14.	
IF SOURCE IS CHLORINATED, I IS A CHLORINE RESIDUAL I	Total Chlorine	Free	Chlorine		RESIDUAL LEVEL	OF TREATMENT	?
IS THERE ANY WATER STORAGE IN TH	E SYSTEM?	yes [	no	IS THE WATER	R TREATMENT BEF	FORE OR AFTER	before after
WHAT IS THE TOTAL AND FREE CHLORINE IN THE	Total Chlorine	1 2	Chlorine O ppm	CHLORINE AD	Y ADDITIONAL DDED AFTER (rechlorination)?	l Total Chi	ppm Free Chlorine
DISTRIBUTION SYSTEM?	IN THIS PROCES	SS? (specify)	_,		CHEMICALS STOR		
IS THERE PROPER STORAGE 7984 FOR THESE CHEMICALS? 700	IF STORED	in pump house parate	HOW ARE CHE	MICALS ISOLATI	ED FROM THE WE	ur ellhead	L area.
PART VI: MAPPI	NG THE C	APTURE	ZONE TO	YOUR	COMMUNI	TY WELL	(Refer to Step 2)
A map (1:5000 to 1:20,000 Multiple wells in the same	are typical s area can be	cales) will i plotted on	pe needed to one map.	o complete	this section.	•	
CIRCULAR CAPTURE				PA	RABOLIC CAP		refer to Appendix 2.2)*
*attach calculation sheets		RADIUS (m)		Downgradient distance	,	⊤ m Caso	th of ure zone m
Arbitrary Fixed Radius		>itca u		is there a riv	ver, lake, pond, at er body within the	ream or other of	vious yes (identity on map)
te a (1-year daver lime)	veport			boundary?			I no
(1-year travel time)* (5-year travel time)* (10-year travel time)*	Dec	c. 200	535	l treatment la	ormwater and/or goon or holding p e of travel bound	ond located with	ity, yes (identity on map) in the no
				DVEV ID		21	
4 REGIONAL SOURCES OF RISK TO G		711: 50	URCE SU	RVET (H	efer to Ste	ab 31	
Please indicate if any of the fo		itial sources	of contamina	ition within t	he capture zoi	ne. S $\ell$	L W201-1
ACTIVITY		T.O.T. NOT	1-YEAR	5-YEAR	10-YEAR		COMMENTS
Chemical Storage (specify)		SPECIFIED				•··, · <del>-</del>	
Injection wells	<del></del> -				<del></del>		
Abandoned wells		-					
Landfills, dumps, disposal areas						······································	
I Commercial/Industrial Sites							ŀ
Commercial/industrial sites  Known hazardous materials clea	an-up site						
Known hazardous materials cle	an-up site						
Known hazardous materials clear Household hazardous waste							
Known hazardous materials clear Household hazardous waste Population density > 2 houses p			V				
Known hazardous materials clear Household hazardous waste			<b>V</b>				
Known hazardous materials clear Household hazardous waste Population density > 2 houses p On-site sewage treatment Wastewater treatment facility	er hectare		V				
Known hazardous materials clear Household hazardous waste Population density > 2 houses p On-site sewage treatment	er hectare						
Known hazardous materials clear Household hazardous waste Population density > 2 houses p On-site sewage treatment Wastewater treatment facility Sites used for land application o Golf course	er hectare		V				
Known hazardous materials clear Household hazardous waste Population density > 2 houses p On-site sewage treatment Wastewater treatment facility Sites used for land application of	er hectare		V				
Known hazardous materials clear Household hazardous waste Population density > 2 houses p On-site sewage treatment Wastewater treatment facility Sites used for land application of Golf course Dairy or beef farms Poultry barns	er hectare		✓				
Known hazardous materials clear Household hazardous waste Population density > 2 houses p On-site sewage treatment Wastewater treatment facility Sites used for land application of Golf course Dairy or beef farms	er hectare						
Known hazardous materials clear Household hazardous waste Population density > 2 houses p On-site sewage treatment Wastewater treatment facility Sites used for tand application of Golf course Dairy or beef farms Poultry barns Hobby farms Fields: vegetables, hay, fruit (sp	er hectare						
Known hazardous materials olei Household hazardous waste Population density > 2 houses p On-site sewage treatment Wastewater treatment facility Sites used for tand application o Goff course Dairy or beef farms Poultry barns Hobby farms Fields: vegetables, hay, fruit (sp Mining operations	er hectare						
Known hazardous materials clear Household hazardous waste Population density > 2 houses p On-site sewage treatment Wastewater treatment facility Sites used for tand application of Golf course Dairy or beef farms Poultry barns Hobby farms Fields: vegetables, hay, fruit (sp	er hectare	sources lister	d above which	n are located	within the captu	ure zone bour	dary.
Known hazardous materials olei Household hazardous waste Population density > 2 houses p On-site sewage treatment Wastewater treatment facility Sites used for tand application o Goff course Dairy or beef farms Poultry barns Hobby farms Fields: vegetables, hay, fruit (sp Mining operations Gravel pits	er hectare  If waste  Hecity)  If the potential  GRADIENT TO	SEPTIC FIELD			DENSITY OF	ON-SITE SEWA	E DISPOSAL SYSTEMS
Known hazardous materials old Household hazardous waste Population density > 2 houses p On-site sewage treatment Wastewater treatment facility Sites used for tand application of Golf course Dairy or beef farms Poultry barns Hobby farms Fields: vegetables, hay, fruit (sp Mining operations Gravel pits	er hectare  If waste	·				ON-SITE SEWA	

WELL PROTECTION TOOLKIT - STEP ONE

W201-3

					······································	<u> </u>
PROJECT: RMOW - Emerald Estates		CASING STIC	KUP: 1.5	ft (0.4	WELL NO: EE No. 3-00	
PHCL PRO	DJECT NO: R711110	STATIC WATE	R LEVEL	: 7.25	PUMPING TEST: Yes	
LOCATION: Green Lake, Whistler		COMPLETION	DEPTH:	50 ft (	15.2 m)	WATER ANALYSIS: Yes
DEPTH	DESCRIPTION	W (ft)		WELL DATA	REMARKS	
0 tl m	Ground Surface		0			12" (300 mm) diameter well casing stickup
5-	O to 5.0 ft (0 to 1.5 m) - containing s boulders  Sand	· /	5		- ¥-	= 2 ft (0.6 m).  Static water level = 7.25 ft on 10/15/00; 6.80 ft (2.07 m) on 10/31/00, prior to capacity testing.
15 - 5	5 to 14 ft (1.5 to 4.3 m) - brown, corgravel and small boulders; dry  Gravel  14 to 40 ft (4.3 to 12.2 m) - coarse, is medium to coarse and gravel is 0. to 50 mm), with some cobbles to 4"	sandy, sand 75 to 2" (20	-14	10000000		13 ft (4.0 m) of 16" (400 mm) diameter surface casing was withdrawn during placement of a surface seal of bentonite grout.
25   10	Rock (boulder?)		-40	$^{\circ}0^{\circ}0^{\circ}0^{\circ}0^{\circ}0^{\circ}0^{\circ}0^{\circ}0$		Top of 12" to 10" (300 to 250 mm) K-type reducing packer = 29.3 ft (8.9 m).  2 ft (0.6 m) of 0.020" (0.508 mm) slot screen.  8 ft (2.4 m) of 0.250" (6.350 mm) slot screen, exposed from 31 to 40 ft (9.4 to 12.2 m)
45 —	40 to 43.5 ft (12.2 to 13.3 m) - green of quartz	n, with trace	-44 -45			10 ft (3.0 m) length of 10" (250 mm) pipe to accommodate pump below well screen.
50 - 15	43.5 to 45 ft (13.3 to 13.7 m) - gran seam of gravel at 13.7 m	ite, with thin				Flat steel plate at bottom of well screen = 50 ft (15.2 m).
55	Rock (Boulder?)  45 to 56 ft (13.7 to 17.1 m) - dark g trace of quartz  Clayey-sift  56 to 58 ft (17.1 to 17.7 m) - grey, y  Rock (boulder?)  58 to 62 ft (17.7 to 18.9 m) - grey-g	very firm	-56 -58 -62			Screen is Johnson stainless steel, continuous wire-wound; note that the casing shoe extends to 9.4 m, exposing only 0.3 m (1 ft) of the 0.6 m (2 ft) long 0.508 mm (0.020") slot screen at the top of the assembly.
·	TOR: Field Drilling Contractors	DATE: 10/2	0/00	P	Co	DROLOGY CONSULTANTS LTD. nsulting Hydrogeologists 201, 1537 West 8th Avenue
DRILLING	METHOD: Cable Tool	BY: cp	<del></del>	_	VANCO	UVER, B.C. Canada V6J 1T5
	of 1	Telephone: (604) 730-6990			lephone: (604) 730-6990	

## VILLAGE W205-1

## **Appendix 1.3 Well Assessment Form**



BRITISH Ministry of Health and Ministry of Enviror Lands and Parks

Ministry of Environment,

### WELL ASSESSMENT FORM

TO BE USED WITH THE WELL PROTECTION TOOLKIT.

IMPORTANT! Please complete one form for each ground water source used in your water system. Fill in available information.

If missing information, it may be advisable to contact the Ministry of Environment, Lands and Parks' Groundwater Section [(250) 387-1115],

or the local driller who drilled the well, to assist. Photocopy this form as necessary.

		RT I: WE	LL SYSTEM	INFORMAT	ION (Refer	to Ster	) i}	
WATE				LEGALINES	CRIPTION OF WELL	L LOCATION		
N	A SYSTEM LEGAL NAME VHISTLER VILL	AGE	W 205-	DAY	SKIER	PARK	ING L	OT 1
WATE	R SYSTEM LEGAL ADDRESS				4490	BLA	CKCOMI	3 WAY.
K	'MOW							
LATIT	UDE / LONGITUDE		OCATION COORDINATI			izad tram	1:5000	map (specify scale)
	166 54 10.1	GPS		<u> </u>				
UTM	COORDINATES	HOW MANY O WELLS MAKE WATER SYST	UP THE 🔍	ALSO USE A	NATER SYSTEM (SURFACE IRCE? (describe)			B CREEK
NUME	IER OF CONNECTIONS	POPULATION	-		571		other (sp	ecify)
Maxim	num Actual		☑ dome	stic irrigation	·			
WIN N			EMS NO.	~ U		WELL TAG NO	4053	,
L .	811		l	811				
	Contact your loca IO = MoELP's metal tag affixed to the will lication.		nvironment, Lands a EMS NO. = MoELP's s their database.	and Parks office or ite number for the wa	ter chemistry on	T TOT ITHE TOHO BC WELL TAG	NO. = MoELP's co	mputer number for the well.
В	ulk supply 🔀 yes 🗌 no	Back-up su	pply yes 🔀	no Emergency	supply yes	s 🔀 no	Metered	yes no
#	WELL OPERATOR RMOW	-						08'S PHONE NO. 132 <i>5</i> 535
ERAT							····	
음	4325	BLACK	COMB	WAY,	WHIS	STLEF	<u> </u>	
OWNER / OPERATOR INFORMATION	WELL OWNER	one					WELL OWNER'S	PHONE NO.
WELLO	WELL OWNER'S ADDRESS	00-					1	
¥	,							
	PART II	WELL	CONSTRUCT	ION INFOR	MATION (F	lefer to	Step 1)	
	DRILLER'S NAME, COMPANY AND ADD	RESS		POST	13A4		DATE WELL ORIGINALLY CONSTRUCTED	YYYY MM DD
\/\°	r-West Drilling Soi - 232nd S	, ,			•			1978   YYYY MM DD
4	501 - 232nd S	treet			ORILLER'S TELEP		DATE OF LAST RECONSTRUCTO	
100	dor Bl.			1 (6	04) 534.	-410B	MECONGINOCIA	<u>" 1979     </u>
TYPE	yley, BL		METHOD OF DRILLIN	3				ELL LOG AVAILABLE?
I .	frilled dug other (specify)		rotary ca	ble driven		ther s <i>pecify)</i>	[	yes (attach) no
DEPT	H OF WELL	DIAMETER OF	L	SCREEN LE	NGTH		DEPTH TO TOP	OF SCREEN
2	1.9 m or ft.		m or <u></u>	_ in,	m of	tt.	23	_ m or ft.
WELL	CAPACITY	LOCATION	OF WATER-BEARING	FRACTION(S) (for be-	drock wells):	,	(IELD OF WATER-	BEARING FRACTION(S)
_2	7.0 Us or Igor	n						s orIgpm
	HEAD ENCLOSURE	er		SURFACE SANITAR		ft.	no surface	seal pitiess adapter
	nump nouse [X] mannoie [ ] (sp	ecity)	none	grouted to	n or		EPTH OF INTAKE	
AVER	AGE PUMPING RATEL/s orLgpi		S PUMPING RATE DETE	RMINED?				t.
ANNU	AL VOLUME OF WATER PUMPED	HOW WAS	VOLUME PUMPED DE	TERMINED?		_		
_	L or Igal							
PUMP	ING CAPACITY	ANY CHA	NGES OR REPAIRS MA	DE TO THE PUMPING	EQUIPMENT? (spe	ecity)		
_	L/s or Igp	n						
TYPE	OF STORAGE other				STORAGE CAPAC		j	MIMION INLET OF OUTLET?
]	ank(s) reservoir other (specify)				NOTE: H no w	L or ell log is ava	igal l	ttach any other records
I I	veil log drawings reports	pump to	est data water q	uality data	docum engine	enting well ering report	s).	e., "as built" drawings,

,	HYDROGEOLOGIC INFO	RMATION (Refer to Steps 1 and 2)
		HOW WAS WATER LEVEL MEASURED?
m or tt.	11.6 mor n.	well log wetted tape probe transducer
PRESSURE HEAD AND FLOW?	OW IS PRESSURE HEAD AND FLOW MEAS	URED? (specify)  If SOURCE IS A FLOWING WELL OR SPRING, IS THERE A STORAGE IMPOUNDMENT OR RESERVOIR ASSOCIATED WITH THIS SOURCE?  Yes (specify)
m or ft.		
WELLHEAD ELEVATION (height above mean se		INED?  topographic map (specify scale other specify) (specify) (specify)
TYPE OF CONFINING LAYER FROM WELL LOG (6.g., clay, tijl)	CATION OF CONFINING YER AT DEPTH	THICKNESS OF CONFINING LAYER /S m orft.
IS YOUR WELL ASSOCIATED NAME OF AQUI		387 AQUIFER CLASSIFICATION NUMBER (from MoELP) 387 IIB (12)
TYPE OF AQUIFER unconsolidated, unconsolidated, confined	ARE THERE OTHER HIG WELLS, 30 Us OR 500 G (agricultural, municipal a industrial), LOCATED WIT RADIUS OF THE COMMU	IAL.MIN. LA FOR MAINTENANCE THE MAINTENANCE TH
AQUIFER TRANSMISSIVITY  3796 m²/d or igpd/f	HOW WAS TRANSMISSIVITY DETERMINE	NED?  n specific capacity other (specify)
	HOW WAS HYDRAULIC GRADIENT DET	
hydraulic gradient  () 11 576	from well water levels	from topography Sother (specify) CYOSS SICHON
PLEASE IDENTIFY OR DESCRIBE ADDITIONAL SOURCE. WHERE POSSIBLE, REFERENCE THI	HYDROLOGIC OR GEOGRAPHIC CONDITI EM TO LOCATIONS ON THE MAP PRODUCE	ONS THAT YOU BELIEVE MAY AFFECT THE SHAPE OF THE CAPTURE ZONE FOR THIS ED IN PART IV.
see Piteo	u report (De	2. 2003)
		ATER QUALITY (Refer to Step 1)
1 HOW LONG HAS THE WATER SYSTEM BEE	N IN EXISTENCE?	TER QUALITY (Refer to Step 1)  2 HAS YOUR WELL EVER BEEN DEEPENED, CLEANED, NEW WELL CONSTRUCTED?  YOS WHY? WILL I'L I'L VELOPES TO (15 NO I'C) NO
1 HOW LONG HAS THE WATER SYSTEM BEE  SEPTEMBER  3 IN THIS TIME, HAVE THERE BEEN ANY WATER OLD LITY PROBLEMS?  WAS PREVIOUS TO CON'T (I.B.,	N IN EXISTENCE?  /9 78  S, WHEN AND WHAT THE CAUSE OF THESE IOOUS PROBLEMS trought, pump balkure,	2 HAS YOUR WELL EVER BEEN DEEPENED, CLEANED, NEW WELL CONSTRUCTED?
1 HOW LONG HAS THE WATER SYSTEM BEE  SEPTEMBUT  SEPTEMBUT  3 IN THIS TIME, HAVE THERE BEEN ANY WATER QUALITY PROBLEMS?  PREV  WAS PREV  On On't know interti	N IN EXISTENCE?  1978  S, WHEN AND WHAT THE CAUSE OF THESE IOUS PROBLEMS trought, pump tallure, ling, increased usage, prence, contamination)?	2 HAS YOUR WELL EVER BEEN DEEPGNED, CLEANED, NEW WELL CONSTRUCTED?  YOU WHY? WELL I'VELOPES TO (15 NO PE ) NO YIE C
1 HOW LONG HAS THE WATER SYSTEM BEE  SEPTEMBUT  SEPTEMBUT  3 IN THIS TIME, HAVE THERE BEEN ANY WATER QUALITY PROBLEMS?  PREV  WAS PREV  On On't know interti	N IN EXISTENCE?  1978  S, WHEN AND WHAT THE CAUSE OF THESE IOUS PROBLEMS trought, pump failure, Ing, increased usage, arence, contamination)? Y CHANGES WERE APPARENT (i.e., taste,	2 HAS YOUR WELL EVER BEEN DEEPSNED, CLEANED, NEW WELL CONSTRUCTED?  Yes With? WELL I'L NEWLODES TO (15 to 18
1 HOW LONG HAS THE WATER SYSTEM BEE  SEPTIMBUT  3 IN THIS TIME, HAVE THERE BEEN ANY WATER QUALITY PROBLEMS?  yes no don't know interting the following the following interting the following the f	N IN EXISTENCE?  19 78  S, WHEN AND WHAT THE CAUSE OF THESE IOUS PROBLEMS Trought, pump tallure, Ing, increased usage, arence, contamination)? Y CHANGES WERE APPARENT (i.e., taste, ECTS OF THIS ACTION?	2 HAS YOUR WELL EVER BEEN DEEPENED, CLEANED, NEW WELL CONSTRUCTED?  YOU WITH I LIVE WELL OF ALL TO THE TOP TO
1 HOW LONG HAS THE WATER SYSTEM BEE  SEPTEMBEE  SEPTEMBEE  3 IN THIS TIME, HAVE THERE BEEN ANY WATER QUALITY PROBLEMS?  PREV  WAS PREV  (I.e., plugge interli	N IN EXISTENCE?  /9 78  S, WHEN AND WHAT THE CAUSE OF THESE IOUS PROBLEMS Trought, pump talkine, Ing, increased usage, arence, contamination)? Y CHANGES WERE APPARENT (i.e., taste, ECTS OF THIS ACTION?  BACTERIAL CO	2 HAS YOUR WELL EVER BEEN DEEPENED, CLEANED, NEW WELL CONSTRUCTED?    Yes Wity?   WILL TE   PURCEPTED   10 / 15 fur?   no    YIE   O    OOLOUR, BUTCHIRY, OTHER!? - WHAT ACTION WAS TAKEN TO OVERCOME THIS PROBLEM?    ONTAMINATION     HAVE THERE BEEN SAMPLING PROTOCOLS OR QAQC   X yes   no
1 HOW LONG HAS THE WATER SYSTEM BEE  SEPTIMBUT  3 IN THIS TIME, HAVE THERE BEEN ANY WATER QUALITY PROBLEMS?  yes no don't know plugg intert  IF CONTAMINATION: WHAT WATER QUALITY WHAT WERE THE EFF  4 ANY BACTERIAL DETECTION(S) IN THE PAST 3 BASED ON SOURCE MONITORING RECORDS?  HAS BOURCE (IN PAST 3 YEARS) HAD A BACTE	N IN EXISTENCE?    9 78  S, WHEN AND WHAT THE CAUSE OF THESE 100US PHOBLEMS trought, pump tallure, Ing, increased usage, sence, contamination)? Y CHANGES WERE APPARENT (i.e., taste, ECTS OF THIS ACTION?  BACTERIAL CO YEARS YES NO	2 HAS YOUR WELL EVER BEEN DEEPENED, CLEANED, NEW WELL CONSTRUCTED?    Yes Wity?   WELL I L.   E.   WELL GONSTRUCTED?    WELL I L.   E.   WELL GONSTRUCTED?    Yes Wity?   WELL I L.   E.   WELL GONSTRUCTED?    WELL I L.   WELL
1 HOW LONG HAS THE WATER SYSTEM BEE  SEPTIMBUT  3 IN THIS TIME, HAVE THERE BEEN ANY WATER QUALITY PROBLEMS?  WAS PREVIOUS TO GON'T KNOW BISTON WHAT WATER QUALITY WAS ATTRIBUTED TO THE SOURCE?	N IN EXISTENCE?    9 78  S, WHEN AND WHAT THE CAUSE OF THESE 100US PROBLEMS trought, pump talkine, Ing, increased usage, arence, contamination)? Y CHANGES WERE APPARENT (i.e., taste, ECTS OF THIS ACTION?  BACTERIAL CO YEARS  yes  no ERIOLOGICAL BUTTON SAMPLES  yes  no	2 HAS YOUR WELL EVER BEEN DEEPENED, CLEANED, NEW WELL CONSTRUCTED?    Yes Wity?   WILL I L.   L.   L.   L.   L.   L.   L.
1 HOW LONG HAS THE WATER SYSTEM BEE  SEPTCH BUT  3 IN THIS TIME, HAVE THERE BEEN ANY WATER QUALITY PROBLEMS?  yes No don't know plug interface.  IF CONTAMINATION: WHAT WATER QUALITY WHAT WERE THE EFF.  4 ANY BACTERIAL DETECTION(S) IN THE PAST 3 BASED ON SOURCE MONITORING RECORDS?  HAS SOURCE (IN PAST YEARS) HAD A BACTTE CONTAMINATION PROBLEM FOUND IN DISTRICT THAT WAS ATTRIBUTED TO THE SOURCE?  WAS THE BACTERIOLOGICAL CONTAMINATION THE SOURCE?	N IN EXISTENCE?    9 78  S, WHEN AND WHAT THE CAUSE OF THESE IOUS PHOBLEMS strought, pump tailure, Ing, increased usage, sence, contamination)? Y CHANGES WERE APPARENT (i.e., taste, ECTS OF THIS ACTION?  BACTERIAL CO YEARS    yes   no   no   DUE TO     yes   no	2 HAS YOUR WELL EVER BEEN DEEPENED, CLEANED, NEW WELL CONSTRUCTED?    Yes Wity?   WILL I L.   L.   L.   L.   L.   L.   L.
1 HOW LONG HAS THE WATER SYSTEM BEE  SEPTCH BUT  3 IN THIS TIME, HAVE THERE BEEN ANY WATER QUALITY PROBLEMS?  yes no don't know intert  "F CONTAMINATION: WHAT WATER QUALITY WHAT WERE THE EFF  "WHAT WERE THE EFF  ANY BACTERIAL DETECTION(S) IN THE PAST 3  BASED ON SOURCE MONITORING RECORDS?  HAS SOURCE (IN PAST 3 YEARS) HAD A BACTE CONTAMINATION PROBLEM FOUND IN DISTRIBUTED TO THE SOURCE?  WAS THE BACTERIOLOGICAL CONTAMINATION	N IN EXISTENCE?    9 78  S, WHEN AND WHAT THE CAUSE OF THESE IOUS PROBLEMS frought, pump talkine, Ing, increased usage, sierce, contamination)? Y CHANGES WERE APPARENT (i.e., taste, ECTS OF THIS ACTION?  BACTERIAL CO YEARS	2 HAS YOUR WELL EVER BEEN DEEPENED, CLEANED, NEW WELL CONSTRUCTED?    Yes Wity?   WILL I L.   L.   L.   L.   L.   L.   L.
1 HOW LONG HAS THE WATER SYSTEM BEE  SEPTION BUT  3 IN THIS TIME, HAVE THERE BEEN ANY WATER QUALITY PROBLEMS?  WAS PREVIOUS TO GON'T KNOW INTERPRETED TO THE PAST 3 BASED ON SOURCE-MONITORING RECORDS?  HAS SOURCE (IN PAST 3 YEARS) HAD A BACTE CONTAMINATION PROBLEM FOUND IN DISTRICT THAT WAS ATTRIBUTED TO THE SOURCE?  WAS THE BACTERIOLOGICAL CONTAMINATION PROBLEM FOUND IN DISTRICT THE SOURCE?  WAS THE BACTERIOLOGICAL CONTAMINATION PROBLEMS FOUND THE SOURCE?	N IN EXISTENCE?    9 78  S, WHEN AND WHAT THE CAUSE OF THESE 100US PROBLEMS trought, pump talkine, Ing, increased usage, srence, contamination)? Y CHANGES WERE APPARENT (i.e., taste, ECTS OF THIS ACTION?  BACTERIAL CO YEARS	2 HAS YOUR WELL EVER BEEN DEEPENED, CLEANED, NEW WELL CONSTRUCTED?    Yes Wity?   WILL I L.   L.   L.   L.   L.   L.   L.

### **Appendix 1.3 Well Assessment Form (continued)**

SOURCE-SPECIFIC WATER QUALITY RECORDS (Refer to Step 1)

Please indicate the occurrence of any test results in the last 10 years that meet the following conditions:

PARAMETER	RECURRING PROBLEMS	TEST RESULTS	EXCEEDENCES OF CDWQG 1
Bacteriological Total/Faecal Coliforms Background Heterotrophic plate counts Iron and Sulphate Reducers	NONE		
<u>Disinfection by-products</u> Bromodichloromethane Dibromochloromethane Chloroform	NONE		
Physical Parameters pH, colour, alkalinity, specific conductance, hardness, total dissolved solids, total organic carbon, turbidity	hurbidity in excess of MAC	1.35 - 2.1 NTY	Sep 1995, Dec 1996
Inorganic Parameters Nitrates, fluoride, sulfate, sulphide, ammonia, chloride, nitrite, nitrogen (organic)	NONE		
Metals* Calcium, iron, magnesium, manganese, sodium	Fe in excess of AD Pb in excess of MAC	0.338-0.42	Sep. 1978

<sup>&</sup>lt;sup>1</sup> Canadian Drinking Water Quality Guidelines, 6th edition

Please sketch in the box below the location sampling point with respect to the well.

KUPFERIE SAMPLE STATION IN AGGIREGATE BARREL

ON WELL HEAD UNDER.

STEEL LID

DAY LOT

SIDE WALK

TO STREET.

HLTH 160, page 3 of 4 99/03/18

A metal scan is usually performed every 3 years at least, and includes aluminum, arsenic, barlum, cadmium, chromium, copper, lead, molybdenum, nickel, phosphorus, silver and zinc.

PART V: WA	TER TREA	TMENT	INFORM/	ATION (Ref	er to Step 1)	
IS THIS SOURCE TREATED?   IF YES, TYPE OF TREAT	MENT				other	
yes on disinfection	fittration	carbon filter	air stripper	water softe:	ner (specify)	
PURPOSE OF TREATMENT						
IF SOURCE IS CHLORINATED,   Total Chlorine IS A CHLORINE RESIDUAL   PR MAINTAINED?   PR	Free mx	Chlorine ppm	WHAT IS THE	RESIDUAL LEVEL (	OF TREATMENT?	
IS THERE ANY WATER STORAGE IN THE SYSTEM?	X yes	no		TREATMENT BEFO	ORE OR AFTER before after	r
WHAT IS THE TOTAL AND Total Chlorine		Chlorine ppm	CHLORINE AC	Y ADDITIONAL     DDED AFTER	Total Chlorine Free Chlor	rine ppm
DISTRIBUTION SYSTEM?   PROCESSIBLE OF CHEMICALS ARE USED IN THIS PROCESSIBLE OF CHEMICALS ARE				(rechlorination)?   CHEMICALS STORE		
IS THERE PROPER STORAGE YES	IN PUMP HOUSE,	HOW ARE CHE	MICALS ISOLAT	ED FROM THE WEL	L?	
L '~					THE SECOND SECON	
PART VI: MAPPING THE					FY WELL (Refer to Step 2	,
A map (1:5000 to 1:20,000 are typical a Multiple wells in the same area can be	scales) Will D plotted on c	e needed t one map.	о сотривте	this section.		
CIRCULAR CAPTURE ZONE (refer	to Appendix 2.	1)	P/	RABOLIC CAP	TURE ZONE (refer to Appendix 2.2)*	
*attach calculation sheets	RADIUS (m)		Downgradient distance	· ·	Width of	_m
Arbitrary Fixed Radius See	iteau			ver lake nond str	ream or other obvious yes (identify on	
(1-year travel time)* YEDOY		202	surface wat boundary?	er body within the	6-month time of travel no	шар)
(5-year travel time)*  (10-year travel time)*	ec. d	003	Is there a stormwater and/or wastewater facility, yes (identify on map) treatment lagoon or holding pond located within the 6-month time of travel boundary?			
			L			
	1 VIII: 5U	DUCE 20	MAELIU	efer to Ste	:P 31	
Please Indicate If any of the following pote	ntial enumes i	of contemin	ation within t	the capture zon	16.	
ACTIVITY	T.O.T. NOT	1-YEAR	5-YEAR	10-YEAR	COMMENTS	
Chemical Storage (specify)	1					
Injection wells						
Abandoned wells		1/	1			
Landfills, dumps, disposal areas		V				
Commercial/industrial sites	1 1	/				
Known hazardous materials clean-up site	1					
Household hazardous waste	<del>                                     </del>					
Population density > 2 houses per hectare						
On-site sewage treatment						
Wastewater treatment facility			1			
Sites used for land application of waste	†		1 -			
Golf course				1		
Dairy or beef farms						
Poultry barns	1				· · · · · · · · · · · · · · · · · · ·	
Hobby farms					· · · · · · · · · · · · · · · · · · ·	
Fields: vegetables, hay, fruit (specify)						
Mining operations						
Gravel pits			<del></del>			
* Mark and Identify on map any of the potentia	al sources lister	above which	h are located	within the captu	re zone boundary.	
EPTIC FIELD SETBACK GRADIENT TO	SEPTIC FIELD			DENSITY OF	ON-SITE SEWAGE DISPOSAL SYSTEMS	
I I I I I I I I I I I I I I I I I I I	downgrade	same (	grade   COMMU	NITY SYSTEM	SYSTEM PER LOT	

## VILLAGE 205-2

### **Appendix 1.3 Well Assessment Form**

	BRITISH COLUMBIA
OOK	COTOMRIA

Ministry of Health and Ministry Responsible for Seniors Lands and Parks

Ministry of Environment,

### **WELL ASSESSMENT FORM** TO BE USED WITH THE WELL PROTECTION TOOLKIT.

IMPORTANT! Please complete one form for each ground water source used in your water system. Fill in available information. If missing information, it may be advisable to contact the Ministry of Environment, Lands and Parks' Groundwater Section [(250) 387-1115], or the local driller who drilled the well, to assist. Photocopy this form as necessary.

PAI	RT I: WELL S	SYSTEM INF	ORMATI	ON (Hefer	r to Step	1)		
WATER SYSTEM LEGAL NAME				*******	LICOATION		nt, 2	0 2
	LAGE 1	N205-2	Berne	un Va	y Ski	11		43
WATER SYSTEM LEGAL ADDRESS		BLAL			WAY			
RMOW .		N COORDINATES DET		MID	VV M		<del></del>	
LATITUDE / LONGITUDE	GPS	(specify accu	_	ırvey 🔲 digi	tized from		map (	(specify scale)
17.20 57 08.7" UTM COORDINATES	HOW MANY OTHER			ATER SYSTEM	Nec	21 N	TILE CP	EEK
	WELLS MAKE UP THE WATER SYSTEM?	• 3	ALSO USE A: WATER SOUR	SURFACE RCE? <i>(describe)</i>	Yes	BLAC	KLOME (specify)	LP
NUMBER OF CONNECTIONS	POPULATION SERVE	D WATER USE	<del></del>				(specify)	
Maximum Actual		domestic	Irrigation	commerci	al indu	ıştrlal		
WIN NO.	EMS N	_	2		WELL TAG NO	). 4593	^	
810			310	ل				
Contact your local WIN NO. = MoELP's metal tag affixed to the w	Ministry of Environment for one ite	ment, Lands and Pa	arks office or i wher for the wat	local Health Un er chemistry on	BC WELL TAG	wing intorm. NO. = MoELP	a <i>tion:</i> s computer numb	er for the well.
identification.	their d	atabase.						
Bulk supply yes no	Back-up supply	yes no	Emergency:	supplyye	s 🔲 no	Metero	d Xyes	no
WELL OPERATOR			<del></del>				ATOR'S PHONE	
						(boy)	932 5	535
<u> </u>	<b>A</b> - :							
4325 BL	AUCCON	1B WAY	4 , 1	NHISTL	ER,	B.4		
WELL OWNER			,			WELL OWN	er's Phone no	
WELL OWNER'S ADDRESS								
DART III	: WELL CON	STRUCTION	INFORM	AATION (I	tefer to	Sten 1)		
WELL-DRILLER'S NAME, COMPANY AND ADD		3780011010		L CODE		DATE WELL	7777	MM DD
			İva	L 47	-8	ORIGINALLY		108   28
Drillwell Enterprise 4994 Pokey R	ad			DRILLER'S TELEF		ļ	(480	MM DD
THA TORRY P						DATE OF LA		20
Duncan, BC			(2	D)746	2768			
TYPE OF WELL	METH	OD OF DRILLING		-	other	JA	WELL LOG AV	
drilled dug other (specify)		otary tool	driven	letteo [1]	(specify)	·	yes (atta	no no
DEPTH OF WELL	DIAMETER OF WELL	10.	SCREEN LEN		ft.	16.3	OP OF SCREEN	
<u>29.1</u> mor ft.	m o			m or			ER-BEARING FR	ACTION(S)
WELL CAPACITY  37.9 + L/s or Igon		TER-BEARING FRACTI	CHI(S) (KN DBOI	www.menaj.	[ ]	41 1101	_ L/s or	Igpm
WELLHEAD ENCLOSURE	"	SURF	FACE SANITARY	/ SEAL				
Company Coth	er ecify)	none grout	ted to	m or	ft.	no surf	ace seal	pitless adapter
AVERAGE PUMPING RATE		NG RATE DETERMINE	D?		С	EPTH OF INTA	KE SETTING	PUMP AGE
AVERAGE PUMPING HATE	n flow	meter				m	or ft.	
VERAGE PUMPING HATE  22 Us or Igns	.   [, ]	E DI MADED DETERMA	NED?					
2.0	HOW WAS VOLUM	IC POMPED DETENME						
<u>22</u> Us or Igpn	HOW WAS VOLUM						·· <del></del>	
22 L/s or Igpn ANNUAL VOLUME OF WATER PUMPED L or Igal	HOW WAS VOLUM	R REPAIRS MADE TO T	THE PUMPING E	QUIPMENT? (sp	ecify)			
22 L/s or Igpn ANNUAL VOLUME OF WATER PUMPED L or Igal PUMPING CAPACITY 22 L/s or Igpn	HOW WAS VOLUM  ANY CHANGES OF						COMMON INFE	TOR OLITIET?
ANNUAL VOLUME OF WATER PUMPED  Lor Igal  PUMPING CAPACITY  TYPE OF STORAGE  Other	HOW WAS VOLUM  N ( P  ANY CHANGES DI			EQUIPMENT? (sp STORAGE CAPA	СПУ	tepI	COMMON INLE	
ANNUAL VOLUME OF WATER PUMPED  Lor Igal  PUMPING CAPACITY  TYPE OF STORAGE  Tank(s) Yeservoir (specify)	HOW WAS VOLUM  N ( P  ANY CHANGES DI			STORAGE CAPA	CITY	Igal	yes	s no
22 L/s or Igpn ANNUAL VOLUME OF WATER PUMPED Lor Igal PUMPING CAPACITY 22 L/s or igpr TYPE OF STORAGE other	HOW WAS YOUM  ANY CHANGES OF	R REPAIRS MADE TO T		STORAGE CAPA	CITY Lor	ailable, pleas construction	yes	s no

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PART II	I: HYDRO	OGEOLOGIC INF	ORMATION	(Refer to Step	s 1 and 2)	
DEPTH TO PUMPING WATER LEVEL		ON-PUMPING WATER LEVEL		LEVEL MEASURED?		
m or ft.	1 11		well log		orobe transducer	
IF WELL IS FLOWING, WHAT IS THE ARTESIA	N HOW IS PRES	SURE HEAD AND FLOW MEA	ASURED? (specify)	IF SOURCE IS A FLOWING	NG WELL OR SPRING, IS SERVOIR ASSOCIATED V	THERE A STORAGE VITH THIS SOURCE?
PRESSURE HEAD AND FLOW?  — m or 11.				yes (specify)		no
WELLHEAD ELEVATION (height above me	an sea level)	HOW WAS ELEVATION DETER	RMINED?		other	
_670_mor	n. [	survey altimeter	(topographic	map (specify scale and contour interval)		NOTE IN CONTRACT
TYPE OF CONFINING LAYER FROM WELL LOG (e.g., clay, lill) 5 (f, Sand and graw)	LOCATION OF LAYER AT DEF FROM WELL L	TH ()	THICKNESS OF CONFINING LAYER FROM WELL LOG	112 mor n.	HOW LATERALLY EXTE LAYER?	NSIVE IS CONFINING  LASSIFICATION
	AQUIFER SIMMON		·	AQUIFER CLASSIFICAT NUMBER (from MoELP 387	(from McEL	
TYPE OF AQUIFER  unconsolidated, unconsolidated confined	ated, bed	ARE THERE OTHER H WELLS, 30 L/s OR 500 (agricultural, municipa industrial), LOCATED V RADRUS OF THE COM	HGAL/MIN. 1/2 Land/or Hk VITHIN A 300-m [□	yes ow many?	ANNUAL RAINFALL	or In
AQUIFER TRANSMISSIVITY	HOW W	AS TRANSMISSIVITY DETERI	MINED?			
9753 m²/d or	- UK-3		om specific capacity	other (specify)		
HYDRAULIC GRADIENT	HOWW	AS HYDRAULIC GRADIENT D	ETERMINED?	other (specify)		
DI EASE IDENTIFY OR DESCRIBE ADDITI	ONAL HYDEOLOG	SIC OR GEOGRAPHIC CONDI	TIONS THAT YOU BE		HAPE OF THE CAPTURE	ZONE FOR THIS
SOURCE. WHERE POSSIBLE, REFERENCE	E THEM TO LOC	ATIONS ON THE MAP PRODU	CED IN PART IV.			
			*****************			
		,,,	. <i>f</i>	<b>~</b>		
see f	Heau	report	(Dec.	2003		
				•	7	
***************************************						
,						
					Chan d	
		ESSMENT OF W	ATER QUA	LITY (Refer to	Step 1)	LL CONSTRUCTED?
PAR 1) HOW LONG HAS THE WATER SYSTEM SUPHMB	A BEEN IN EXIST		2 HAS YOUR V	LITY (Refer to MELL EVER BEEN DEEPER WHY? 1208LUL OF A	YED, CLEANED, NEW WE	LL CONSTRUCTED?
1) HOW LONG HAS THE WATER SYSTEM SUPPLYMB 3) IN THIS TIME, HAVE THERE BEEN	FYES, WHEN A	ENCE? 978 ND WHAT	2 HAS YOUR V	WELL EVER BEEN QEEPE	YED, CLEANED, NEW WE	LL CONSTRUCTED?
1) HOW LONG HAS THE WATER SYSTEM SUPHUM D 3) IN THIS TIME, HAVE THERE BEEN ANY WATER QUALITY PROBLEMS?	IF YES, WHEN AS WAS THE CAUSE PREVIOUS PROE	ENCE? 978  ND WHAT E OF THESE SLEMS	2 HAS YOUR V	WELL EVER BEEN QEEPE	YED, CLEANED, NEW WE	EL CONSTRUCTED?
1) HOW LONG HAS THE WATER SYSTEM SUPPLYMB 3) IN THIS TIME, HAVE THERE BEEN	IF YES, WHEN AN WAS THE CAUSE PREVIOUS PROG	ENCE? 978  ND WHAT COF THESE JLEMS JUDY 1881 J	2 HAS YOUR V	WELL EVER BEEN QEEPER	YED, CLEANED, NEW WE	EL CONSTRUCTED?
1) HOW LONG HAS THE WATER SYSTEM SLPHW B 3) IN THIS TIME, HAVE THERE BEEN ANY WATER QUALITY PROBLEMS?  Ups No don't know	IF YES, WHEN AI WAS THE CAUSE PREVIOUS PRODUGING, Increase interference, con	ENCE? 978  ND WHAT OF THESE SLEMS Imp failure, ied usage, (tamhastion)?	2 HAS YOUR V	MET EAST DEED SEED	AED CERVED NEW ME	ielė []no
1) HOW LONG HAS THE WATER SYSTEM SLPHW B 3) IN THIS TIME, HAVE THERE BEEN ANY WATER QUALITY PROBLEMS?  Ups No don't know	IF YES, WHEN AI WAS THE CAUSE PREVIOUS PROE (i.e., drought, purplugging, increase interference, con UALITY CHANGES	ENCE? 978  ND WHAT OF THESE SLEMS Imp tailure, ied usage, (tamhastion)? S WERE APPARENT (i.e., tast	2 HAS YOUR V	MET EAST DEED SEED	AED CERVED NEW ME	ielė []no
1) HOW LONG HAS THE WATER SYSTEM SLPHW 3) IN THIS TIME, HAVE THERE BEEN ANY WATER QUALITY PROBLEMS?  yes  no  don't know  IF CONTAMINATION: • WHAT WATER Q	IF YES, WHEN AI WAS THE CAUSE PREVIOUS PROE (i.e., drought, purplugging, increase interference, con UALITY CHANGES	ENCE? 978  ND WHAT OF THESE SLEMS Imp tailure, ied usage, (tamhastion)? S WERE APPARENT (i.e., tast	2 HAS YOUR V	MET EAST DEED SEED	AED CERVED NEW ME	ielė []no
1) HOW LONG HAS THE WATER SYSTEM SLPHW 3) IN THIS TIME, HAVE THERE BEEN ANY WATER QUALITY PROBLEMS?  yes  no  don't know  IF CONTAMINATION: • WHAT WATER Q	IF YES, WHEN AI WAS THE CAUSE PREVIOUS PROE (i.e., drought, purplugging, increase interference, con UALITY CHANGES	ENCE? 978  ND WHAT OF THESE SLEMS Imp tailure, ied usage, (tamhastion)? S WERE APPARENT (i.e., tast	2 HAS YOUR V	MET EAST DEED SEED	AED CERVED NEW ME	ielė []no
1) HOW LONG HAS THE WATER SYSTEM SLPHW 3) IN THIS TIME, HAVE THERE BEEN ANY WATER QUALITY PROBLEMS?  yes  no  don't know  IF CONTAMINATION: • WHAT WATER Q	IF YES, WHEN AI WAS THE CAUSE PREVIOUS PROE (i.e., drought, purplugging, increase interference, con UALITY CHANGES	ENCE? 978  ND WHAT OF THESE SLEMS Imp tailure, ied usage, (tamhastion)? S WERE APPARENT (i.e., tast	2 HAS YOUR V	MET EAST DEED SEED	AED CERVED NEW ME	ielė []no
1) HOW LONG HAS THE WATER SYSTEM SLPHW 3) IN THIS TIME, HAVE THERE BEEN ANY WATER QUALITY PROBLEMS?  yes  no  don't know  IF CONTAMINATION: • WHAT WATER Q	IF YES, WHEN AI WAS THE CAUSE PREVIOUS PROE (i.e., drought, purplugging, increase interference, con UALITY CHANGES	ENCE? 978  ND WHAT OF THESE SLEMS Imp tailure, ied usage, (tamhastion)? S WERE APPARENT (i.e., tast	2 HAS YOUR V	MET EAST DEED SEED	AED CERVED NEW ME	ielė []no
1) HOW LONG HAS THE WATER SYSTEM SLPHW 3) IN THIS TIME, HAVE THERE BEEN ANY WATER QUALITY PROBLEMS?  yes  no  don't know  IF CONTAMINATION: • WHAT WATER Q	IF YES, WHEN AI WAS THE CAUSE PREVIOUS PROE (i.e., drought, purplugging, increase interference, con UALITY CHANGES	ENCE? 978  ND WHAT OF THESE SLEMS Imp tailure, ied usage, (tamhastion)? S WERE APPARENT (i.e., tast	2 HAS YOUR V	MET EAST DEED SEED	AED CERVED NEW ME	ielė []no
1) HOW LONG HAS THE WATER SYSTEM SLIP HUM D  3) IN THIS TIME, HAVE THERE BEEN ANY WATER QUALITY PROBLEMS?  Upes no don't know  IF CONTAMINATION: WHAT WATER Q WHAT WERE THE	IF YES, WHEN AI WAS THE CAUSE PREVIOUS PROE (i.e., drought, purplugging, increase interference, con UALITY CHANGES	ENCE? 978  ND WHAT E OF THESE SLEMS  ILEMS (ad usage, (amhation)? S WERE APPARENT (i.e., tast HIS ACTION?	HAS YOUR V	WHAT ACTION W	AED CERVED NEW ME	ielė []no
1) HOW LONG HAS THE WATER SYSTEM SLPHW 3) IN THIS TIME, HAVE THERE BEEN ANY WATER QUALITY PROBLEMS?  yes  no  don't know  IF CONTAMINATION: • WHAT WATER Q	M BEEN IN EXISTI  F YES, WHEN AL WAS THE CAUSE PREVIOUS PROC I(i.e., drought, pu plugging, increat interference, con UALITY CHANGE: E EFFECTS OF TH	ND WHAT E OF THESE SLEMS SLEMS (ad usage, tamination)? S WERE APPARENT (i.e., tast IIS ACTION?	e, colour, turbidity, of	WHAT ACTION W  WHAT ACTION W  DIN  EEN SAMPLING PROTOCOC	YED, CLEANED, NEW WEST TO FRESTOR Y	ielė []no
1) HOW LONG HAS THE WATER SYSTEM  SLIPH W D  3) IN THIS TIME, HAVE THERE BEEN ANY WATER QUALITY PROBLEMS?  WHAT WATER QUALITY PROBLEMS?  WHAT WATER QUALITY PROBLEMS?  IF CONTAMINATION: WHAT WATER Q  WHAT WERE THE CONTAMINATION OF THE PROBLEMS ON SOURCE (IN PAST 3 YEARS) HAD ALL ALL SOURCE (IN PAST 3 YEARS) HAD ALL ALL SOURCE (IN PAST 3 YEARS) HAD ALL ALL SOURCE (IN PAST 3 YEARS) HAD ALL ALL SOURCE (IN PAST 3 YEARS) HAD ALL ALL SOURCE (IN PAST 3 YEARS) HAD ALL ALL SOURCE (IN PAST 3 YEARS) HAD ALL ALL SOURCE (IN PAST 3 YEARS) HAD ALL ALL SOURCE (IN PAST 3 YEARS) HAD ALL ALL SOURCE (IN PAST 3 YEARS) HAD ALL ALL SOURCE (IN PAST 3 YEARS) HAD ALL ALL SOURCE (IN PAST 3 YEARS) HAD ALL SOURCE	IF YES, WHEN AN WAS THE CAUSE PREVIOUS PROE (i.e., drought, pur phuggling, increase interference, and the cause EFFECTS OF THE CAUSE EF	ENCE? 978  ND WHAT OF THESE SLEMS Imp tailure, sed usage, tamhastion)? S WERE APPARENT (i.e., tast HIS ACTION?  BACTERIAL  yes  n	e, colour, turbidity, of  CONTAMINATIO  HAVE THERE BI  ESTABLISHED?  IF YES, WHAT A	WHAT ACTION W  WHAT ACTION W  EEN SAMPLING PROTOCO	YED, CLEANED, NEW WEST TO FRESTOR Y	ie lds   no
1) HOW LONG HAS THE WATER SYSTEM SLIPH WID 3) IN THIS TIME, HAVE THERE BEEN ANY WATER QUALITY PROBLEMS?  WHAT WATER QUALITY PROBLEMS?  IF CONTAMINATION: WHAT WATER Q WHAT WERE THE  ANY BACTERIAL DETECTION(S) IN THE F BASED ON SOURCE-MONITORING RECC HAS SOURCE (IN PAST 3 YEAR) HAD ALL CONTAMINATION PROBLEM FOUND IN D	IF YES, WHEN AN WAS THE CAUSE PREVIOUS PROBE (i.e., drought, pur pluggling, increase interference, con UALITY CHANGES E EFFECTS OF THE CAUSE PROSE THE CAUSE P	ENCE? 978  ND WHAT OF THESE SLEMS Imp tailure, sed usage, tamhastion)? S WERE APPARENT (i.e., tast HIS ACTION?  BACTERIAL  yes  n	e, colour, turbidity, of  CONTAMINATIO  HAVE THERE BI  ESTABLISHED?  IF YES, WHAT A	WHAT ACTION W  WHAT ACTION W  DIN  EEN SAMPLING PROTOCO  IRE THEY?	YED, CLEANED, NEW WEST TO FRESTOR Y	ie lds   no
1) HOW LONG HAS THE WATER SYSTEM SLIP HUM D  3) IN THIS TIME, HAVE THERE BEEN ANY WATER QUALITY PROBLEMS?  WHAT WATER QUALITY PROBLEMS?  IF CONTAMINATION: WHAT WATER Q WHAT WERE THE WHAT WATER OF WHAT WERE THE WHAT WERE THE WHAT WERE THE WHAT WATER OF WHAT WATER OF WHAT WATER OF WHAT WATER OF WHAT WATER OF WHAT WATER OF WHAT WATER OF WHAT WAS ATTRIBUTED TO THE SOURCE WAS THE BACTERIOLOGICAL CONTAMINATION PROBLEM FOUND IN DITHAT WAS ATTRIBUTED TO THE SOURCE WAS THE BACTERIOLOGICAL CONTAMINATION.	MEEN IN EXISTI  FYES, WHEN AV WAS THE CAUSE PREVIOUS PROCE (i.e., drought, pu pluggling, increase interference, com LULITY CHANGE: E EFFECTS OF THE  MAST 3 YEARS RDS?  BACTERIOLOGIC, STRIBUTION SAI E?	ENCE? 978  ND WHAT OF THESE SLEMS Imp tailure, sed usage, tamhastion)? S WERE APPARENT (i.e., tast HIS ACTION?  BACTERIAL  yes  n	e, colour, turbidity, of  HAVE THERE BI ESTABLISHED?  IF YES, WHAT A	WHAT ACTION W  WHAT ACTION W  DIN  EEN SAMPLING PROTOCO  IRE THEY?	NEC CLEANED NEW WEST TO FESTIVE Y	ie lds   no
1) HOW LONG HAS THE WATER SYSTEM  SLIPH WID  3) IN THIS TIME, HAVE THERE BEEN ANY WATER QUALITY PROBLEMS?  WHAT WATER QUALITY PROBLEMS?  IF CONTAMINATION: WHAT WATER ON WHAT WERE THE WATER ON WHAT WERE THE BASED ON SOURCE WAS THE BACTERIOLOGICAL CONTAMINATION PROBLEM FOUND IN DITHAT WAS ATTRIBUTED TO THE SOURCE WAS THE BACTERIOLOGICAL CONTAMINITHE SOURCE?  WAS THE BACTERIOLOGICAL CONTAMINITHE BACTERIOLOGICAL CONTAMINITHE SOURCE?	IF YES, WHEN AN WAS THE CAUSE PREVIOUS PROBE (i.e., drought, pur pluggling, increase interference, con UALITY CHANGES E EFFECTS OF THE CAUSE PROBE PRO	BACTERIAL  yes  AL  MPLES yes   AL  MPLES yes   AL  MPLES yes   AL  MPLES yes   NO  MPLES yes   NO  MPLES yes   NO  MPLES   MPCE    e, colour, turbidity, of  EXTENSION OF THE PROPERTY OF THE PRO	WHAT ACTION W  THE SAMPLING PROTOCO  THE THEY?	NEC CLEANED NEW WEST TO FESTIVE Y	ie lds   no	
1) HOW LONG HAS THE WATER SYSTEM  SLIPH WID  3) IN THIS TIME, HAVE THERE BEEN ANY WATER QUALITY PROBLEMS?  WAS TO CONTAMINATION: WHAT WATER OF WHAT WERE THE WAS ATTRIBUTED TO THE SOURCE HONTONIN IN THE FOUND IN DITHAT WAS ATTRIBUTED TO THE SOURCE WAS THE BACTERIOLOGICAL CONTAMINATION PROBLEM FOUND IN DITHAT WAS ATTRIBUTED TO THE SOURCE WAS THE BACTERIOLOGICAL CONTAMINATION PROBLEM FOUND IN DITHAT WAS ATTRIBUTED TO THE SOURCE?  WAS THE BACTERIOLOGICAL CONTAMINATION PROBLEM FOUND IN DITHAT WAS ATTRIBUTED TO THE SOURCE?	IF YES, WHEN AN WAS THE CAUSE PREVIOUS PROBE (i.e., drought, pu pluggling, increase interference, con UALITY CHANGES E EFFECTS OF THE CAUSE PROSE THE CAUSE PROSE THE CAUSE OF	BACTERIAL  BACTERIAL  yes   numbers of the selection of t	e, colour, turbidity, of HAVE THERE BI ESTABLISHED?  IF YES WHAT A BI W COLOUR ANNUAL	WHAT ACTION W  THE SAMPLING PROTOCO  THE THEY?	NEC CLEANED NEW WEST TO FESTIVE Y	ie lds   no
1) HOW LONG HAS THE WATER SYSTEM  SLIPH WID  3) IN THIS TIME, HAVE THERE BEEN ANY WATER QUALITY PROBLEMS?  WHAT WATER QUALITY PROBLEMS?  IF CONTAMINATION: WHAT WATER ON WHAT WERE THE WATER ON WHAT WERE THE BASED ON SOURCE WAS THE BACTERIOLOGICAL CONTAMINATION PROBLEM FOUND IN DITHAT WAS ATTRIBUTED TO THE SOURCE WAS THE BACTERIOLOGICAL CONTAMINITHE SOURCE?  WAS THE BACTERIOLOGICAL CONTAMINITHE BACTERIOLOGICAL CONTAMINITHE SOURCE?	IF YES, WHEN AN WAS THE CAUSE PREVIOUS PROBE (i.e., drought, pu pluggling, increas interference, con UALITY CHANGES E EFFECTS OF THE CAUSE PROSE THE CAUSE PROSE THE CAUSE PROSE THE CAUSE PROBE THE CAUSE PROSE THE CAUSE PROSE THE CAUSE PROSE THE CAUSE PROBE THE CAUSE PROSE THE CAUSE PROSE THE CAUSE PROSE THE CAUSE PROBE THE CAUSE PROSE THE CAUSE PROSE THE CAUSE PROBE THE CAUSE PRO	BACTERIAL  yes	e, colour, turbidity, of HAVE THERE BI ESTABLISHED?  IF YES WHAT A BI W COLOUR ANNUAL	well even been deeper why? 1000 cubical her)? what action wher)? what action where they? early are they? early are they?	HE OR CAMOC  HES OR CAMOC  TALYSIS  LISTS  L	ie lds   no
1 HOW LONG HAS THE WATER SYSTEM  SLIPH WID  3 IN THIS TIME, HAVE THERE BEEN ANY WATER QUALITY PROBLEMS?  I yes  no don't know  IF CONTAMINATION: WHAT WATER Q WHAT WERE THE  ANY BACTERIAL DETECTION(S) IN THE F BASED ON SOURCE-MONITORING RECC HONTAMINATION PROBLEM FOUND IN D THAT WAS ATTRIBUTED TO THE SOURCE WAS THE BACTERIOLOGICAL CONTAMIN THE SOURCE?  WAS THE BACTERIOLOGICAL CONTAMIN CROSS-CONNECTIONS?	IF YES, WHEN AN WAS THE CAUSE PREVIOUS PROBE (i.e., drought, pu pluggling, increas interference, con UALITY CHANGES E EFFECTS OF THE CAUSE PROSE THE CAUSE PROSE THE CAUSE PROSE THE CAUSE PROBE THE CAUSE PROSE THE CAUSE PROSE THE CAUSE PROSE THE CAUSE PROBE THE CAUSE PROSE THE CAUSE PROSE THE CAUSE PROSE THE CAUSE PROBE THE CAUSE PROSE THE CAUSE PROSE THE CAUSE PROBE THE CAUSE PRO	BACTERIAL  yes	e, colour, turbidity, of HAVE THERE BI ESTABLISHED?  IF YES WHAT A BI W COLOUR ANNUAL	well even been deeper why? 1000 cubical her)? what action wher)? what action where they? early are they? early are they?	NEC CLEANED NEW WEST TO FESTIVE Y	ie lds   no

PARAMETER	RECURRIN	G PROBLEMS	TEST RESULTS	EXCEEDENC	ES OF CDWQG 1
teriological /Faecal Coliforms ground Heterotrophic counts and Sulphate Reducers	NONE				
action by-products dichloromethane nochloromethane form	NONE				
al Parameters our, alkalinity, specific tance, hardness, total ed solids, total organic turbidity	NONE				
nic Parameters s, fluoride, sulfate, de, ammonia, chloride, nitrogen (organic)	NONE				
n, iron, magnesium,	NONE				
dian Drinking Water Quality perfo	rmed every 3 years at		iluminum, arsenic, barlur	n, cadmlum, chromic	ım, copper, lead,
dian Drinking Water Quater Stall scan is usually perfordenum, nickel, phosph	ermed every 3 years at orus, silver and zinc.	least, and includes a		7a / ELEC	TRICAL
flian Drinking Water Qual al scan is usually perfo denum, nickel, phosph	ermed every 3 years at orus, silver and zinc.	least, and includes a		7a / ELEC	
dian Drinking Water Or tal scan is usually perfo benum, nickel, phospi	ermed every 3 years at orus, silver and zinc.	least, and includes a		7a / ELEC	TRICAL
ndian Drinking Water On that scan is usually perfected before, nickel, phospinase sketch in the box but the box bu	rmed every 3 years at orus, silver and zinc.	pling point with resp		JN ELEC	TRICAL NOSK KUPFERLE STATION
METER /VI CHAMB	rmed every 3 years at orus, silver and zinc.	Pling point with resp WEL	L HEAD UND	JN ELEC	TRICAL LIOSK

IS THIS SOURCE TREATED?   IF YES, TYPE OF TREATMENT	TMENT I	INFORM#	TION (Refe	r to Step 1)
				other
yes X no disinfection filtration ca	arbon filter	air stripper	water softene	(specify)
PURPOSE OF TREATMENT				
IF SOURCE IS CHLORINATED, Total Chlorine Free C IS A CHLORINE RESIDUAL   ppm   maintainted?	hlorine ppm	WHAT IS THE	RESIDUAL LEVEL OF	TREATMENT?
IS THERE ANY WATER STORAGE IN THE SYSTEM?	no	IS THE WATER THE STORAGE	TREATMENT BEFOR	E OR AFTER before after
WHAT IS THE TOTAL AND Total Chlorine Free C	hlorine	IS THERE ANY	<del></del>	Total Chlorine Free Chlorine
FREE CHLORINE IN THE DISTRIBUTION SYSTEM?	ppm	CHLORINE AD	DED AFTER   (rechlorination)?	ppm   ppm
WHAT TYPE OF CHEMICALS ARE USED IN THIS PROCESS? (specify)		WHERE ARE C	HEMICALS STORED	,
		<u> </u>		
IS THERE PROPER STORAGE Yes FOR THESE CHEMICALS? no	HOW ARE CHE	MICALS ISOLATE	D FROM THE WELL?	
PART VI: MAPPING THE CAPTURE 2	ZONE TO	YOUR	OMMUNITY	WELL (Refer to Step 2)
A map (1:5000 to 1:20,000 are typical scales) will be Multiple wells in the same area can be plotted on or		o complete	this section.	
CIRCULAR CAPTURE ZONE (refer to Appendix 2.1)		PA	RABOLIC CAPTU	IRE ZONE (refer to Appendix 2.2)*
*attach calculation sheets RADIUS (m)	,	Downgradient		Width of
Arbitrary Fixed Radius See Pitcau	}	distance		_ m _ capture zone m
		is there a riv surface water boundary?	er, lake, pond, strea r body within the 6-	m or other obvious yes (identify on map) month time of travel no
(5-year travel time)*	03	<u> </u>		
(1-year travel time)* VEPOV+  (5-year travel time)* Dec 20		treatment lag	ermwater and/or wa joon or holding pon of travel boundary	d located within the
DART VII. COLL	DOE CII	DVEY (O.	for to Ctoo	2)
PART VII: SOU  4 REGIONAL SOURCES OF RISK TO GROUND WATER	NCE 3U	MAELIN	ner to Step	31
Please indicate if any of the following potential sources of	contamina contamina	ition within ti	ne capture zone.	see W205-1
ACTIVITY T.O.T. NOT	1-YEAR	5-YEAR	10-YEAR	COMMENTS
Chemical Storage (specify)				
Injection wells				
Abandoned wells				
Landfills, dumps, disposal areas	1		·	
Commercial/industrial sites				
Known hazardous materials clean-up site			,	
Household hazardous waste				
<u></u>				
Household hazardous waste				
Household hazardous waste Population density > 2 houses per hectare				
Household hazardous waste  Population density > 2 houses per hectare  On-site sewage treatment				
Household hazardous waste  Population density > 2 houses per hectare  On-site sewage treatment  Wastewater treatment facility				
Household hazardous waste  Population density > 2 houses per hectare  On-site sewage treatment  Wastewater treatment facility  Sites used for land application of waste				
Household hazardous waste  Population density > 2 houses per hectare  On-site sewage treatment  Wastewater treatment facility  Sites used for land application of waste  Goff course				
Household hazardous waste  Population density > 2 houses per hectare  On-site sewage treatment  Wastewater treatment facility  Sites used for land application of waste  Goff course  Dairy or beef farms				
Household hazardous waste  Population density > 2 houses per hectare  On-site sewage treatment  Wastewater treatment facility  Sites used for land application of waste  Golf course  Dairy or beef farms  Poultry barns				
Household hazardous waste  Population density > 2 houses per hectare  On-site sewage treatment  Wastewater treatment facility  Sites used for land application of waste  Golf course  Dairy or beef farms  Poultry barns  Hobby farms				
Household hazardous waste  Population density > 2 houses per hectare  On-site sewage treatment  Wastewater treatment facility  Sites used for land application of waste  Goff course  Dairy or beef farms  Poultry barns  Hobby farms  Fields: vegetables, hay, fruit (specify)				
Household hazardous waste  Population density > 2 houses per hectare  On-site sewage treatment  Wastewater treatment facility  Sites used for land application of waste  Goff course  Dairy or beef farms  Poultry barns  Hobby farms  Fields: vegetables, hay, fruit (specify)  Mining operations	above which	n are located		zone boundary.
Household hazardous waste  Population density > 2 houses per hectare  On-site sewage treatment  Wastewater treatment facility  Sites used for land application of waste  Golf course  Dairy or beef farms  Poultry barns  Hobby farms  Fields: vegetables, hay, fruit (specify)  Mining operations  Gravel pits	above which	n are located	within the capture	zone boundary.
Household hazardous waste  Population density > 2 houses per hectare  On-site sewage treatment  Wastewater treatment facility  Sites used for land application of waste  Goff course  Dairy or beef farms  Poultry barns  Hobby farms  Fields: vegetables, hay, fruit (specify)  Mining operations  Gravel pits	above which		within the capture	

## **Appendix 1.3 Well Assessment Form**

VILLAGE 205-3

邀	BRITISH COLUMBIA
XX	COLUMRA

Ministry of Health and A Ministry Responsible for Seniors Lands and Parks

Ministry of Environment,

### **WELL ASSESSMENT FORM**

TO BE USED WITH THE WELL PROTECTION TOOLKIT.

IMPORTANTI Please complete one form for each ground water source used in your water system. Fill in available information.

If missing information, it may be advisable to contact the Ministry of Environment, Lands and Parks' Groundwater Section [(250) 387-1115], or the local driller who drilled the well, to assist. Photocopy this form as necessary.

UTM COORDINATES    HOW MANN OTHER   WELLS MAKE UP THE   WATER SYSTEM   ALSO USES THE WATER SYSTEM   ALSO USES A SURFACE   WATER SYSTEM   WATE	PART I: WELL SYSTEM INFORMATION (Refe	r to Step 1)
WELL OPERATORS ADDRESS WELL OPERATORS ADDRESS		
RMOW  A440 BLACKLOMB WAY  LATITUDE / LONGITUDE  SO **Op' **S' **Op' **D' **Op'	STLER VILLAGE WZOS-3 BETWEEN DA	MISHER IDI 3 POPUL
UTM COORDINATES    Cooperation   MOW 4490 BLACKCOMB	WAY.	
UTIN COORDINATES    HOW MANY OTHER   WELL SWALE UP THE   WILLES MAKE UP THE   WILLES AND SERVED   WATER SOURCE? (MORENDO)   HOW MANY OTHER   SUBJECT   MAKER SOURCE? (MORENDO)   WELL TAN NO.   BUT I SUBJECT   MAKER SOURCE? (MORENDO)   WELL TAN NO.   BUT I SUBJECT   MAKER SOURCE? (MORENDO)   WELL TAN NO.   BUT I SUBJECT   MAKER SOURCE? (MORENDO)   WELL TAN NO.   MORE I SUBJECT   MAKER SOURCE? (MORENDO)   WELL OPERATOR MORE   SUBJECT   MAKER SOURCE? (MORENDO)   WELL OPERATOR MORE   MAKER SOURCE? (MORENDO)   WELL OPERATOR MORE SEED   MAKER SOURCE   MAKER SOURCE? (MORENDO)   WELL OPERATOR MORE SEED   MAKER SOURCE? (MORENDO)   WELL OPERATOR MORE SEED   MAKER SOURCE? (MORENDO)   WELL OPERATOR MORE SEED   MAKER SOURCE   MAKE	57.6" GPS (specify accuracy) survey dig	pitized from map (specify scale)
MAINTERN ACTUAL  WHIN NO. BOS 7 & Contact your local Ministry of Environment, Lands and Parks office or local Health Link for the following information:  WIN NO. BOS 7 & Contact your local Ministry of Environment, Lands and Parks office or local Health Link for the following information:  WIN NO. BOELP's metal tag efford to the well for on-site   Eas NO. BoelP's site number for the water chemistry on   BC WELL TAG NO. BOELP's computer number for the water chemistry on   BC WELL TAG NO. BOELP's computer number for the water chemistry on   BC WELL TAG NO. BOELP's computer number for the water chemistry on   BC WELL TAG NO. BOELP's computer number for the water chemistry on   BC WELL TAG NO. BOELP's computer number for the water chemistry on   BC WELL TAG NO. BOELP's computer number for the water chemistry on   BC WELL TAG NO. BOELP's computer number for the water chemistry on   BC WELL TAG NO. BOELP's computer number for the water chemistry on   BC WELL TAG NO. BOELP's computer number for the water chemistry on   BC WELL TAG NO. BOELP's computer number for the water chemistry on   BC WELL TAG NO. BOELP's computer number for the water chemistry on   BC WELL TAG NO. BOELP's computer number for the water chemistry on   BC WELL TAG NO. BOELP's computer number for the water chemistry on   BC WELL TAG NO. BOELP's computer number for the water chemistry on   BC WELL TAG NO. BOELP's computer number for the water chemistry on   BC WELL TAG NO. BOELP's computer number for the water chemistry on   BC WELL TAG NO. BOELP's computer number for the water chemistry on   BC WELL TAG NO. BOELP's computer number for the water chemistry on   BC WELL TAG NO. BOELP's computer number for the water chemistry on   BC WELL TAG NO. BOELP's computer number for the water chemistry on   BC WELL TAG NO. BOELP's computer number for the water chemistry on   BC WELL TAG NO. BOELP's computer number for the water chemistry on   BC WELL TAG NO. BOELP's computer number for the water chemistry on   BC WELL TAG NO. BOELP's computer number for the water	NATES HOW MANY OTHER ALSO USE A SURFACE	21 MILE CREEK/ BLACKIOMB CREEK
WELL CPRIALER'S TELEPHONE NO.  **BO 9  **Contact your local Ministry of Environment, Lands and Parks office or local Health Link for the following information:  WINN NO. = MOELP's metal lag afford to the well for on-site   EMS NO. = MOELP's after number for the water chemistry on   SC WELL TAG NO. = MOELP's computer number for the well consideration.  **Bulk supply**	The section of the se	
Contact your local Ministry of Environment, Lands and Parks office or local Health Unit for the following information:  WIN NO. = MoELP's metal log efficed to the well for on-site business.  WIN NO. = MoELP's metal log efficed to the well for on-site business.  Bulk supply	FMS NO.	WELL TAG NO.
MININO, — MOELP'S metal tag affired to the well for on-site of the water chemistry on BC WELL TASING. — MOELP's company in the database.  Bulk supply		
BUIK SUPPRY Yes no Back-up Supply yes no Emergency Supply yes no Metered yes fro WELL OPERATOR RMDW  WELL OPERATOR RMDW  WELL OPERATOR RMDW  WELL OPERATOR RMDW  WELL OPERATOR RMDW  WELL OPERATOR RMDW  WELL OPERATOR RMDW  WELL OWNER ADDRESS  WELL OWNER ADDRESS  PART H: WELL CONSTRUCTION INFORMATION (Refer to Step 1)  WELL-DRILLER'S NAME, COMPANY AND ADDRESS  POSTAL CODE DATE WELL ONIGNALLY CONSTRUCTION INFORMATION (Refer to Step 1)  WELL-DRILLER'S NAME, COMPANY AND ADDRESS  POSTAL CODE DATE WELL ONIGNALLY CONSTRUCTION INFORMATION (Refer to Step 1)  WELL-DRILLER'S TELEPHONE NO. ()  DATE OF LAST RECONSTRUCTION YYYY MM D DATE OF LAST RECONSTRUCTION (SPORTLY) (SP	oELP's metal tag affixed to the well for on-site EMS NO. = MoELP's site number for the water chemistry on	nit for the following information:  BC WELL TAG NO MoELP's computer number for the well.
WELL OPERATOR'S ADDRESS  WELL OWNER'S ADDRESS  PART II: WELL CONSTRUCTION INFORMATION (Refer to Step 1)  WELL-ORILLER'S NAME, COMPANY AND ADDRESS  POSTAL CODE  WELL-ORILLER'S TELEPHONE NO.  ( ) DATE WELL ORINGALLY YMY MAN D ORIGINALLY CONSTRUCTED 1982  UNKNOWN METHOD OF DRILLING  WELL-ORILLER'S TELEPHONE NO.  ( ) DATE OF LAST  RECONSTRUCTION  WELL LOG AVAILABLE?  WELL CAPACITY  20.5 Us or Igon  NOW WAS PUMPING RATE DETERMINED?  UNKNOWN MAS VOLUME PUMPED  HOW WAS PUMPING RATE PUMPED  Lor Igon  NOW WAS VOLUME PUMPED DETERMINED?    WAS PUMPING RATE PUMPED   WAS PUMPING RATE PUMPED   WAS PUMPING RATE PUMPED   WAS PUMPING RATE PUMPED   WAS VOLUME PUMPED DETERMINED?    WAS PUMPING RATE PUMPED   WAS PUMPING RATE PUMPED   WAS PUMPING RATE PUMPED   HOW WAS VOLUME PUMPED DETERMINED?    WAS PUMPING RATE PUMPED   HOW WAS VOLUME PUMPED DETERMINED?   WAS PUMPING RATE PUMPED   HOW WAS VOLUME PUMPED DETERMINED?   WAS PUMPING RATE PUMPED   HOW WAS VOLUME PUMPED DETERMINED?   WAS PUMPING RATE PUMPED   HOW WAS VOLUME PUMPED DETERMINED?   WAS PUMPING RATE PUMPED   HOW WAS VOLUME PUMPED DETERMINED?		#• [] *** [] *** []
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PART II: WELL CONSTRUCTION INFORMATION (Refer to Step 1)  WELL-DRILLER'S NAME, COMPANY AND ADDRESS  POSTAL CODE  WELL-DRILLER'S TELEPHONE NO.  WELL-DRILLER'S TELEPHONE NO.  WELL-DRILLER'S TELEPHONE NO.  WELL-DRILLER'S TELEPHONE NO.  OATE OF LAST RECONSTRUCTION  WELL CONSTRUCTION  METHOD OF DRILLING  other (specify) of twen   jetted of the potential of the poten		CRER
PART II: WELL CONSTRUCTION INFORMATION (Refer to Step 1)  WELL-DRILLER'S NAME, COMPANY AND ADDRESS  POSTAL CODE  WELL-DRILLER'S TELEPHONE NO.  OTHER OF LAST RECONSTRUCTION  WELL LOG AVAILABLE?  WELL LOG AVAILABLE?  WELL LOG AVAILABLE?  WELL COMPANY  METHOD OF DRILLING  other (specify)	CHARGE	WELL OWNER'S PHONE NO.
PART II: WELL CONSTRUCTION INFORMATION (Refer to Step 1)  WELL-DRILLER'S NAME, COMPANY AND ADDRESS  POSTAL CODE  WELL-DRILLER'S TELEPHONE NO.  WELL-DRILLER'S TELEPHONE NO.  WELL-DRILLER'S TELEPHONE NO.  OTHER OF WELL  ORIGINALLY CONSTRUCTION  DATE OF LAST RECONSTRUCTION  WELL LOG AVARIABLE?  YMYY MM D  ATE OF LAST RECONSTRUCTION  WELL LOG AVARIABLE?  WELL CORREST (specify)  DEPTH TO TOP OF SCREEN  Totary cable driven screen LENGTH  DEPTH TO TOP OF SCREEN  OF SCREEN LENGTH  DEPTH TO TOP OF SCREEN  14 .4 m or  Th.  O. 3 m or in. 3.2 m or th.  I. 4 .4 m or  WELL CAPACITY  20.5 Us or light  WELL-DRILLER'S TELEPHONE NO.  WELL CORSTRUCTION  WELL CORSTRUCTION  DEPTH TO TOP OF SCREEN  14 .4 m or  Th.  U.S or light  HOW WAS PUMPING RATE DETERMINED?  DEPTH OF INTAKE SETTING  PUMP A  NANHUAL VOLUME OF WATER PUMPED  Lor light  HOW WAS VOLUME PUMPED DETERMINED?		( )
WELL-DRILLER'S NAME, COMPANY AND ADDRESS    POSTAL CODE   DATE WELL ORIGINALLY CONSTRUCTED   1982	OWNER'S ADDRESS	
WELL-DRILLER'S NAME, COMPANY AND ADDRESS    WELL-DRILLER'S TELEPHONE NO.   ORIGINALLY CONSTRUCTED   1982     WELL-DRILLER'S TELEPHONE NO.   ORIGINALLY CONSTRUCTED   1982     WELL-DRILLER'S TELEPHONE NO.   ORIGINALLY CONSTRUCTED   1982     DATE OF LAST RECONSTRUCTION     DATE OF LAST RECONSTRUCTION     Other   Cabble   Other    PART II: WELL CONSTRUCTION INFORMATION	Refer to Step 1)	
WELL-URILLERS TELEPHONE R.    Construction   Constr	0.000	DATE WELL YYYY MM DD ORIGINALLY
TYPE OF WELL    drilled   dug   other   cable   rotary   cable   driven   jetted   capacity   wes (attach)	KNOUN WELL-DRILLER'S TELE	DATE OF LAST
DEPTH OF WELL  27.4 m or		
DIAMETER OF WELL  27.4 m or ft. 0.3 m or in. 3.2 m or ft. 14.4 m or  WELL CAPACITY  LOCATION OF WATER-BEARING FRACTION(S) (for bedrock wells):  VIELD OF WATER-BEARING FRACTION(S)  VIELD OF WATER-BEARING FRACTION(S)  VIELD OF WATER-BEARING FRACTION(S)  LIS OF	dug (specify) tool onven perceu	(specify)
NELL CAPACITY 20.5 Us or Igpm   LOCATION OF WATER-BEARING FRACTION(S) (for bedrock wells): YIELD OF WATER-BEARING FRACTION(S) Us or Igm NELLHEAD ENCLOSURE other other other other frouted to m or tt DEPTH OF INTAKE SETTING PUMP A Us or Igpm	2.3	
List or   Igpm	7 mor n   n   n	
WELLHEAD ENCLOSURE   Other   O	MIT ==	L/s or Igpm
AVERAGE PUMPING RATE    Us or igpm	NOLOSURE SURFACE SANITARY SEAL	tr no surface seal pitless adapter
AVERAGE PUMPING RATE		
NAMUAL VOLUME OF WATER PUMPED HOW WAS VOLUME PUMPED DETERMINED?  L or Log Igal		-
TO THE PLANTAGE TO THE PLANTAGE CONTINUE TO TH		
PLIMPING CAPACITY ANY CHANGES OR REPAIRS MADE TO THE PUMPING EQUIPMENT? (specify)		
O Los or John		
TYPE OF STORAGE CAPACITY COMMON NILET OR CUTLE	DRAGE CAP	
tank(s) √ reservoir (specify)	V reservoir (specify)	well to ie available please attach any other records
ATTACHED INFORMATION    Well log	document description of the desc	menting well construction (i.e., as built utawings,
MTH 160, page 1 ol 4 99/07/06		

PART DEPTH TO PUMPING WATER LEVEL	III. HYDDA										
DEPTH TO PUMPING WATER LEVEL				ORMATIO				1 and	2)		
		PUMPING WATE	R LEVEL	HOW WAS WAT			_	_ — _			
m or	n 3.V	m or	ft.	well log		etted tape	prob		insducer	1005 4 07	TOD 4 OF
IF WELL IS FLOWING, WHAT IS THE ARTES PRESSURE HEAD AND FLOW?	HOW IS PRESSU	JRE HEAD AND F	LOW MEA	SURED? (specify)	) IFS	DURCE IS A P DUNDMENT (	PLOWING OR RESER	WELL OH S VOIR ASSO	CIATED WI	TH THIS SO	DURCE?
m or	n.					yes (specif)	r)				no
WELLHEAD ELEVATION (height above of	mean sea level) HO	W WAS ELEVATION		_		ap (specify s	cale o	other			
610 mor	ft.	survey 8	altimeter	topographic	a	nd contaur in	<i>terval)</i> L	(specif)			
TYPE OF CONFINING LAYER FROM WEI LOG (e.g., day, bil) SILT, Sand and grave	/ LAYER AT DEPTH	١ ٨	ft.	THICKNESS OF CONFINING LAY FROM WELL LO		_ m or		OW LATERA IYER?			
IS YOUR WELL ASSOCIATED. NAME O	FAQUIFER 251MMON	S CŁ			AQL	IFER CLASSI IBER (from M	IFICATION IOELP)	Ać (tr	OUIFER CLA OM MOELP	? /	) ON
TYPE OF AQUIFER unconsolidated, unconsolidated confined	dated, bedrock	WELLS, 30 L	/s OR 500 ( municipal :	end/or	yes How prain	y?	)	ANNUAL			
☐ unconfined ☐ confined		RADIUS OF 1	THE COMM	THIN A 300-m UNITY WELL?	по			122	<u> </u>	<u> </u>	In.
AQUIFER TRANSMISSIVITY	<b>₹3</b> 4	TRANSMISSIVIT		INED? m specific capaci	ъ. П	other (specif	5/1				
3120 m <sup>2</sup> /d or	94-0-1	om pumping test				Coller (Specia					
D. 11 °/o	fr	HYDRAULIC GR/ om well water lev	rets 🗌	from topography		ther (specify)		255		ton	
PLEASE IDENTIFY OR DESCRIBE ADDIT SOURCE, WHERE POSSIBLE, REFEREN	TIONAL HYDROLOGIC	OR GEOGRAPHI	IC CONDITI	IONS THAT YOU E ED IN PART IV.	BELIEVE N	MY AFFECT	THE SHAP	E OF THE (	CAPTURE Z	ONE FOR	THIS .
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مجو	Pitecu	Lappi	T	vec.	- 2	SO.	>.)				
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		~~~~				10-1		an 41			· · · ·
	T IV: ASSE		OF W	TER QUA	ALITY	(Refer	to St	ep 1)	NEW WELL	CONSTRI	ICTED?
PAR 1 HOW LONG HAS THE WATER SYSTE SEPTEMBLY	M BEEN IN EXISTENC		OF W	2 HAS YOUR	WELL E	(Refer ER BEEN DE 120 eveloj	EPENED,	ep 1) CLEANED, O (25 FE		constru e/a	CTED?
1 HOW LONG HAS THE WATER SYSTE SEPTEMBER 3 IN THIS TIME, HAVE THERE BEEN	M BEEN IN EXISTENCE   9	78 MHAT	OF W	2 HAS YOUR	WELL E	ER DEEN DE	EPENED,	CLEANED,		constru e/d	OCTED?
1 HOW LONG HAS THE WATER SYSTE September	IF YES, WHEN AND WAS THE CAUSE OF PREVIOUS PROBLE (i.e., drought, pump phugging, increased	PR PR MHAT THESE MS falkure, usage,	OF W	2 HAS YOUR	WELL E	ER DEEN DE	EPENED,	CLEANED,		constru e/d	ICTED?
1 HOW LONG HAS THE WATER SYSTE  SUP LYM BUY  3 IN THIS TIME HAVE THERE BEEN ANY WATER QUALITY PROBLEMS?  yes No don't know	FYES, WHEN AND WAS THE CAUSE OF PREVIOUS PROBLE (Le., drought, pump plugging, increased interference, contain	HAT THESE MS allure, usage, ination)?		2 HAS YOUTH	WELL EV	en been de Pocleveloj	EPENEO,	CLEANED,	re y	eld_	no
1 HOW LONG HAS THE WATER SYSTE  SUP LUM BUY  3 IN THIS TIME HAVE THERE BEEN ANY WATER QUALITY PROBLEMS?  yes No don't know  IF CONTAMINATION: WHAT WATER C	IF YES, WHEN AND WAS THE CAUSE OF PREVIOUS PROBLE (i.e., drought, pump phugging, increased	PER APPARENT		2 HAS YOUTH	WELL EV	en been de Pocleveloj	EPENEO,	CLEANED,	re y	eld_	no
1 HOW LONG HAS THE WATER SYSTE  SUP LUM BUY  3 IN THIS TIME HAVE THERE BEEN ANY WATER QUALITY PROBLEMS?  yes No don't know  IF CONTAMINATION: WHAT WATER C	FYES, WHEN AND WAS THE CAUSE OF PREVIOUS PROBLES (Le., drought, pump phugging, increased interference, contart	PER APPARENT		2 HAS YOUTH	WELL EV	en been de Pocleveloj	EPENEO,	CLEANED,	re y	eld_	no
1 HOW LONG HAS THE WATER SYSTE  SUP LUM BUY  3 IN THIS TIME HAVE THERE BEEN ANY WATER QUALITY PROBLEMS?  yes No don't know  IF CONTAMINATION: WHAT WATER C	FYES, WHEN AND WAS THE CAUSE OF PREVIOUS PROBLES (Le., drought, pump phugging, increased interference, contart	PER APPARENT		2 HAS YOUTH	WELL EV	en been de Pocleveloj	EPENEO,	CLEANED,	re y	eld_	no
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1 HOW LONG HAS THE WATER SYSTE  SUP LUM BUY  3 IN THIS TIME HAVE THERE BEEN ANY WATER QUALITY PROBLEMS?  yes No don't know  IF CONTAMINATION: WHAT WATER C	FYES, WHEN AND WAS THE CAUSE OF PREVIOUS PROBLES (Le., drought, pump phugging, increased interference, contart	PER APPARENT		2 HAS YOUTH	WELL EV	en been de Pocleveloj	EPENEO,	CLEANED,	re y	eld_	no
1 HOW LONG HAS THE WATER SYSTE  SUP LUM BUY  3 IN THIS TIME HAVE THERE BEEN ANY WATER QUALITY PROBLEMS?  yes No don't know  IF CONTAMINATION: WHAT WATER C	FYES, WHEN AND WAS THE CAUSE OF PREVIOUS PROBLES (Le., drought, pump phugging, increased interference, contart	PER APPARENT		2 HAS YOUTH	WELL EV	en been de Pocleveloj	EPENEO,	CLEANED,	re y	eld_	no
HOW LONG HAS THE WATER SYSTE   September	FYES, WHEN AND WAS THE CAUSE OF PREVIOUS PROBLES (Le., drought, pump phugging, increased interference, contart	T-8  M-AT FTHESE AS allalure, usage, whation)? ERE APPARENT	(i.e., taste,	2 HAS YOUR	West Every?	en been de Pocleveloj	EPENEO,	CLEANED,	re y	eld_	no
HOW LONG HAS THE WATER SYSTE   September	FYES, WHEN AND WAS THE CAUSE OF PREVIOUS PROBING PURPLE (I.a., drought, pump plugging, increased interference, contain CAUALTY CHANGES WILE EFFECTS OF THIS	MHAT F THESE MS Idlivre, usage, usage, ACTION?  BACTI	(i.e., taste,	2 HAS YOUR Ves -	ON	ER SEEN DE BOEVE O	EEPENED, OLD #	CLEANED, OF PERSON	WERCOME	THIS PROF	BLEM?
HOW LONG HAS THE WATER SYSTE   Sup fum but   FYES, WHEN AND WAS THE CAUSE OF PREVIOUS PROBLE (La., drought, pump plugging, increased interference, contain CAULITY CHANGES WILL EFFECTS OF THIS PAST 3 YEARS ORDS?  BACTERIOLOGICAL	PER PARENT ACTION?	(i.e., taste,	2 HAS YOUR	ON BEEN SAM	ER BEEN DE VOICE OF	EEPENED, OLD #	CLEANED, OF PERSON	WERCOME	eld_	no	
HOW LONG HAS THE WATER SYSTE   Sup fum bux	F YES, WHEN AND WAS THE CAUSE OF PREVIOUS PROBING IT. (I.e., drought, pump plugging, increased interference, contart was the Cause of the Previous Probing in the Previous Probing in the Previous Probing in the Previous Probing in the Previous Probing in the Previous Probing in the Previous Previous Previous Previous Previous Previous Previous Previous Previous Previous Previous Previous Previous Previous Previous Previous Previous Previous Previous Previous Previous Previous Previous Previous Previous Previous Previous Previous Previous Previous Previous Previous Previous Previous Previous Previous Previous Previous Previous Previous Previous Previous Previous Previous Previous Previous Previous Previous Previous Previous Previous Previous Previous Previous Previous Previous Previous Previous Previous Previous Previous Previous Previous Previous Previous Previous Previous Previous Previous Previous Previous Previous Previous Previous Previous Previous Previous Previous Previous Previous Previous Previous Previous Previous Previous Previous Previous Previous Previous Previous Previous Previous Previous Previous Previous Previous Previous Previous Previous Previous Previous Previous Previous Previous Previous Previous Previous Previous Previous Previous Previous Previous Previous Previous Previous Previous Previous Previous Previous Previous Previous Previous Previous Previous Previous Previous Previous Previous Previous Previous Previous Previous Previous Previous Previous Previous Previous Previous Previous Previous Previous Previous Previous Previous Previous Previous Previous Previous Previous Previous Previous Previous Previous Previous Previous Previous Previous Previous Previous Previous Previous Previous Previous Previous Previous Previous Previous Previous Previous Previous Previous Previous Previous Previous Previous Previous Previous Previous Previous Previous Previous Previous Previous Previous Previous Previous Previous Previous Previous Previous Previous Previous Previous Previous Previous Previous	PER PARENT ACTION?	(i.e., taste,	COLOUR, BUTCHHILL, BUT	ON BEEN SAM	ER BEEN DE VOICE OF	OCOLS O	CLEANED, OF PERSON	VERCOME	THIS PROF	BLEM?
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THOW LONG HAS THE WATER SYSTE  SUP FUM BUY  3 IN THIS TIME, HAVE THERE BEEN ANY WATER QUALITY PROBLEMS?  yes no don't know  IF CONTAMINATION: WHAT WATER G. WHAT WERE THE CONTAMINATION PROBLEM FOUND IN THE BASS OURCE (IN PAST 3 YEARS) HAD A CONTAMINATION PROBLEM FOUND IN THAT WAS ATTRIBUTED TO THE SOURCE WAS THE BACTERIOLOGICAL CONTAMINATION PROBLEM FOUND IN THAT WAS ATTRIBUTED TO THE SOURCE WAS THE BACTERIOLOGICAL CONTAMINATION PROBLEM FOUND IN THIS SOURCE?  WAS THE BACTERIOLOGICAL CONTAMINATION PROBLEM FOUND IN THIS SOURCE?	FYES, WHEN AND WAS THE CAUSE OF PREVIOUS PROBLE (i.e., drought, pump plugging, increased interference, contant DUALITY CHANGES WHE EFFECTS OF THIS PAST 3 YEARS ORDS?  PAST 3 YEARS ORDS?  BACTERIOLOGICAL ISTRIBUTION SAMPLE?  NATION DUE TO NATION DUE TO NATION DUE TO NATION DUE TO NATION DUE TO NATION DUE TO NATION DUE TO NATION DUE TO NATION DUE TO NATION DUE TO NATION DUE TO NATION DUE TO NATION DUE TO NATION DUE TO NATION DUE TO NATION DUE TO NATION DUE TO NATION DUE TO NATION DUE TO NATION DUE TO NATION DUE TO NATION DUE TO NATION DUE TO NATION DUE TO NATION DUE TO NATION DUE TO NATION DUE TO NATION DUE TO NATION DUE TO NATION DUE TO NATION DUE TO NATION DUE TO NATION DUE TO NATION DUE TO NATION DUE TO NATION DUE TO NATION DUE TO NATION DUE TO NATION DUE TO NATION DUE TO NATION DUE TO NATION DUE TO NATION DUE TO NATION DUE TO NATION DUE TO NATION DUE TO NATION DUE TO NATION DUE TO NATION DUE TO NATION DUE TO NATION DUE TO NATION DUE TO NATION DUE TO NATION DUE TO NATION DUE TO NATION DUE TO NATION DUE TO NATION DUE TO NATION DUE TO NATION DUE TO NATION DUE TO NATION DUE TO NATION DUE TO NATION DUE TO NATION DUE TO NATION DUE TO NATION DUE TO NATION DUE TO NATION DUE TO NATION DUE TO NATION DUE TO NATION DUE TO NATION DUE TO NATION DUE TO NATION DUE TO NATION DUE TO NATION DUE TO NATION DUE TO NATION DUE TO NATION DUE TO NATION DUE TO NATION DUE TO NATION DUE TO NATION DUE TO NATION DUE TO NATION DUE TO NATION DUE TO NATION DUE TO NATION DUE TO NATION DUE TO NATION DUE TO NATION DUE TO NATION DUE TO NATION DUE TO NATION DUE TO NATION DUE TO NATION DUE TO NATION DUE TO NATION DUE TO NATION DUE TO NATION DUE TO NATION DUE TO NATION DUE TO NATION DUE TO NATION DUE TO NATION DUE TO NATION DUE TO NATION DUE TO NATION DUE TO NATION DUE TO NATION DUE TO NATION DUE TO NATION DUE TO NATION DUE TO NATION DUE TO NATION DUE TO NATION DUE TO NATION DUE TO NATION DUE TO NATION DUE TO NATION DUE TO NATION DUE TO NATION DUE TO NATION DUE TO NATION DUE TO NATION DUE TO NATION DUE TO NATION DUE TO NATION DUE TO NATION DUE TO NA	### PACTION?  BACTION?  BACTION  BACTIO	(i.e., taste,	COLOUR, BUTCHHILL, BUT	ON BEEN SAM	ER BEEN PE POSE PROTECTION OF THE PROTECTION OF	TOCOLS O	CLEANED, O FOSTS	VERCOME	THIS PROF	BLEM?
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#### **Appendix 1.3 Well Assessment Form (continued)**

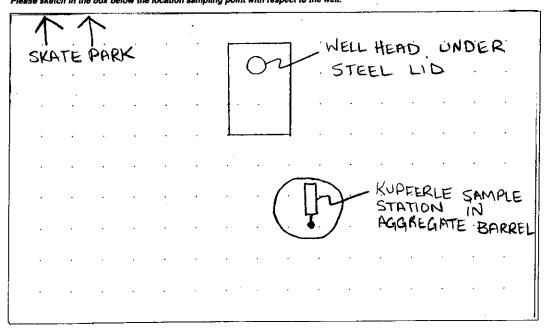
SOURCE-SPECIFIC WATER QUALITY RECORDS (Refer to Step 1)

Please indicate the occurrence of any test results in the last 10 years that meet the following conditions:

PARAMETER	RECURRING PROBLEMS	TEST RESULTS	EXCEEDENCES OF CDWQG 1
Bacteriological Total/Faecal Coliforms Background Heterotrophic plate counts Iron and Sulphate Reducers	NONE		
Disinfection by-products Bromodichloromethane Dibromochloromethane Chloroform	NONE		
Physical Parameters pH, colour, alkalintly, specific conductance, hardness, total dissolved solids, total organic carbon, turbidity	turbidity > MAC	1.38 - 2.00 NTU	May 96, Jan 00, Dec 02
inorganic Parameters Nitrates, fluoride, sulfate, sulphide, ammonia, chloride, nitrite, nitrogen (organic)	NONE		
Metals* Calcium, iron, magnesium, manganese, sodium	elevated fe > AO	0.79 - 0.94 mg/L	Dec 89, May 96

<sup>1</sup> Canadian Drinking Water Quality Guidelines, 6th edition

Please sketch in the box below the location sampling point with respect to the well.



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<sup>\*</sup>A metal scan is usually performed every 3 years at least, and includes aluminum, arsenic, barium, cadmium, chromium, copper, lead, molybdenum, nickel, phosphorus, silver and zinc.

## **Appendix 1.3 Well Assessment Form (continued)**

PA	RT V: W	ATER TRE	ATMENT	INFORM	ATION (Re	fer to S	tep 1)		
	TYPE OF THE								<del></del>
yes X no d	isinfection	filtration	carbon filter	air stripper	water sof		other (specify)	·	
PURPOSE OF TREATMENT									
									<del> </del>
IF SOURCE IS CHLORINATED, IS A CHLORINE RESIDUAL	Total Chlorine	ppm	Chlorine ppm	WHAT IS THE	RESIDUAL LEVEL	L OF TREATME	:N17		
MAINTAINED?   —			pp'''	IC THE WATER	R TREATMENT BE	COOK OR AFT	FD		
IS THERE ANY WATER STORAGE IN TH	IE SYSTEM?	X yes [	no	THE STORAG	E UNIT?			before	after
WHAT IS THE TOTAL AND FREE CHLORINE IN THE	Total Chlorine		Chlorine		Y ADDITIONAL DDED AFTER	l Total	Chlorine ppm		Free Chlorine ppm
DISTRIBUTION SYSTEM? ————————————————————————————————————		ppin	ppm		(rechlorination)?	<u> </u>	ppi	J <del></del>	
WHAT TIPE OF CHEMICALS ARE USED	FIN THIS PROC	css: (specify)		WHENE AIL	CHIEMIONES STOI	EU:			
IS THERE PROPER STORAGE 799	, IF STORE	D IN PUMP HOUSE	, HOW ARE CHE	MICALS ISOLAT	ED FROM THE WE	LL?			
IS THERE PROPER STORAGE   Yes									
PART VI: MAPPI	NG THE	CAPTURE	ZONE TO	YOUR	COMMUNI	TY WEL	L (Refe	r to S	tep 2)
A map (1:5000 to 1:20,000	are typical	scales) will i	be needed t						
Multiple wells in the same	area can b	e plotted on	one map.				F (44-	A	. 0.001
*attach calculation sheets	ZONE (refe	r to Appendix 2 RADIUS (m)	-1)	Downgradient	RABOLIC CAI		Width of	-ppenau	( 2.2 -
Arbitrary Fixed Radius	coo 1	itcau		distance	·		capture zone		m
	SCC r		<del>-</del> -	is there a ri	ver, lake, pond, s er body within the	tream or othe	r obvious	yes (id	entify on map)
(1-year travel time)*	report	Dec	2003	boundary?	er oods arear a			no	
(1-year travel time)* (5-year travel time)* (10-year travel time)*	<u>,                                     </u>			Is there a st	tormwater and/or goon or holding (	wastewater t	acility,	yes (idi	entify on map)
C ii. (10-year travel time)*				6-month tim	e of traivel bound	lary?	L	] no	
	PAF	T VII: SO	URCE SU	RVEY (B	efer to St	ep 3)			
4 REGIONAL SOURCES OF RISK TO G					<u> </u>				
Please indicate if any of the fo	Haudaa aat		-4				4	1225	: I
riease indicate it any of the io	nowing poi	ential sources	or contamina	won wanin i	the capture zo	ne. S	ce v	V ZU	· · ·
ACTIVITY	nowing por	T.O.T. NOT	1-YEAR	5-YEAR	10-YEAR	ne. S		IENTS	, ,
	atowniy por		1	· -	1 1	ine.			
АСПУІТУ	wowing por	T.O.T. NOT	1	· -	1 1	ne.			
ACTIVITY Chemical Storage (specify)	aowing poo	T.O.T. NOT	1	· -	1 1	ne. Ç			
ACTIVITY Chemical Storage (specify) Injection wells		T.O.T. NOT	1	· -	1 1	ne. S			
ACTIVITY Chemical Storage (specify) Injection wells Abandoned wells		T.O.T. NOT	1	· -	1 1	ne. Ş			
ACTIVITY Chemical Storage (specify) Injection wells Abandoned wells Landfills, dumps, disposal areas	<b>S</b>	T.O.T. NOT	1	· -	1 1	ne. Ş			
ACTIVITY  Chemical Storage (specify) Injection wells Abandoned wells Landfills, dumps, disposal areas Commercial/industrial sites	<b>S</b>	T.O.T. NOT	1	· -	1 1	ne. S			
ACTIVITY  Chemical Storage (specify) Injection wells Abandoned wells Landfills, dumps, disposal areas Commercial/industrial sites Known hazardous materials cles	an-up site	T.O.T. NOT	1	· -	1 1	ne. S			
ACTIVITY  Chemical Storage (specify) Injection wells Abandoned wells Landfills, dumps, disposal areas Commercial/industrial sites Known hazardous materials cle Household hazardous waste	an-up site	T.O.T. NOT	1	· -	1 1	ne. Ç			
ACTIVITY  Chemical Storage (specify) Injection wells Abandoned wells Landfills, dumps, disposal areas Commercial/industrial sites Known hazardous materials clei Household hazardous waste Population density > 2 houses p	an-up site	T.O.T. NOT	1	· -	1 1	ne. Ç			
ACTIVITY Chemical Storage (specify) Injection wells Abandoned wells Landfills, dumps, disposal areas Commercial/industrial sites Known hazardous materials cles Household hazardous waste Population density > 2 houses p On-site sewage treatment	an-up site per hectare	T.O.T. NOT	1	· -	1 1	ne. Ç			
ACTIVITY Chemical Storage (specify) Injection wells Abandoned wells Landfills, dumps, disposal areas Commercial/industrial sites Known hazardous materials cles Household hazardous waste Population density > 2 houses p On-site sewage treatment Wastewater treatment facility Sites used for land application of	an-up site er hectare	T.O.T. NOT	1	· -	1 1	ne. Ç			
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ACTIVITY Chemical Storage (specify) Injection wells Abandoned wells Landfills, dumps, disposal areas Commercial/industrial sites Known hazardous materials clei Household hazardous waste Population density > 2 houses p On-site sewage treatment Wastewater treatment facility Sites used for land application of Golf course Dairy or beef farms Poultry barns Hobby farms Fields: vegetables, hay, fruit (sp. Mining operations Gravel pits	an-up site  per hectare  if waste	T.O.T. NOT SPECIFIED  al sources lister  D SEPTIC FIELD	1-YEAR	5-YEAR	10-YEAR	ure zone bo	COMM	IENTS	
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## **Appendix 1.3 Well Assessment Form**

W211



BRITISH Ministry of Health and Ministry of Enviror Lands and Parks

Ministry of Environment,

#### **WELL ASSESSMENT FORM**

TO BE USED WITH THE WELL PROTECTION TOOLKIT.

IMPORTANT! Please complete one form for each ground water source used in your water system. Fill in available information.

If missing information, it may be advisable to contact the Ministry of Environment, Lands and Parks' Groundwater Section [(250) 387-1115],

			who drilled the well, to					
	PAI	RT I: WI	ELL SYSTEM INF	ORMATION (Refe	r to Step	1)		
WATE	R SYSTEM LEGAL NAME			LEGAL DESCRIPTION OF WI			<b>-</b>	
N	HISTER VILLA	<b>5E</b>	W211	SOUTHEAST	CORN	EK 01	72 C C	207.8
WATE	R SYSTEM LEGAL ADDRESS		BLACKCOM	B WAY.		4	330 B	LACK
Æ	2MOW 43							
	6' 59.3"/127° 57'8.2"	HOW WERE I	LOCATION COORDINATES DET		gitized from	1:500	O map (sp	pecify scale)
UTM (	COORDINATES	HOW MANY O WELLS MAKE WATER SYST	UP THE	DOES THE WATER SYSTEM ALSO USE A SURFACE WATER SOURCE? (describe)				
NUMB	ER OF CONNECTIONS	POPULATION	SERVED WATER USE			other (s	specify)	
Махіп	num Actual		domestic	Irrigation Commer	dal Indu	strial		
WIN N	o. NA		EMS NO.	IOWN	WELL TAG NO	^	I/A	
					init for the follo		<del></del>	
WIN N	Contact your loca  O. = MoELP's metal tag affixed to the wication.	I Ministry of b well for on-site	Environment, Lands and Pa EMS NO. = McELP's site nur their database.	arks office or local Health L nber for the water chemistry on	BC WELL TAG	NO. ≍ MoELP's	computer number	for the well.
В	ulk supply 🔯 yes 🗌 no	Back-up su	upply yes no	Emergency supply	nes 🔲 no	Metered	X yes [	
É	WELL OPERATOR RMOW	/					132 55	
SER !	WELL OPERATOR'S ADDRESS	*	CAAR WA	y, WHIS	1100			-
OF S	4325 BL	ALKC	OMB WA	(1) VVIII.2	ILL	WELL CHARGE	'S PHONE NO.	
OWNER / OPERATOR INFORMATION	WELLOWNER . C.S	1.	suc.			( )	13 PHONE NO.	
9 ¥ ; ∃	WELL OWNER'S ADDRESS	, <u></u>						
WELL	WELL CHILCH'S ADDITION							
	DART II	. WELL	CONSTRUCTION	INFORMATION	Refer to	Step 1)		
			00113111501161		· · · · · · · · · · · · · · · · · · ·	DATE WELL	YYYY	MM DD
WELL	DON'T FOR MAME COMPANY AND ADD	DAFSS		POSTAL CODE				
WELL	DRILLER'S NAME, COMPANY AND ADD	DRESS	V PALIDES	i		ORIGINALLY CONSTRUCTS	ED (	0(170
F	IELD DRILLIN	6 00		V4W 2		ORIGINALLY CONSTRUCTE	7000	06 27
FBO	IELD DRILLIN × 841, 25320 F	6 00		V4W 2	EPHONE NO.	DATE OF LAS	7000   T	06 27 MM DD
FBO	IELD DRILLIN × 841, 25320 F	6 00		V4W 2	EPHONE NO.	CONSTRUCTS	7000   T	06 27 MM DD
F Bo Al	IELD DRILLIN × 841, 25320 F dergrove, BC	6 00	Highway	V4W 2	EPHONE NO.	DATE OF LAS	ZOBO   TON	06  27-
F Bo AL TYPE	IELD DRILLIN × 841, 25320 F dergrove, BC	6 00	Highway  METHOD OF DRILLING	V4W 2 WELL-DRILLER'S TEL (604) 857	EPHONE NO.	DATE OF LAS	7000   T	
F Bo Al TYPE	IELD DRILLIN  X 841, 25320 F  dergrowe, Bel  OF WELL  ITHER dug (specify)	icese (	Highway  METHOD OF DRILLING  Totary Stool	V4W 2 WELL-DRILLER'S TEL (604) 857	- 2266	DATE OF LAS RECONSTRUC	TION WELL LOG AVA	
P Bo Al	IELD DRILLIN  X 841, 25320 F  dergrowe, Bel  OFWELL  HOFWELL	6 00	METHOD OF DRILLING Totary Cable tool	V4W 2 WELL-DRILLER'S TEL (604) 857  driven [] Jetted [] SCREEN LENGTH	EPHONE NO.	DATE OF LAS RECONSTRUC	TION WELL LOG AVA	
HAL TYPE	IELD DRILLIN  X 841, 25320 F  dergrowe, Bel  OFWELL  HOFWELL  20.1 mor	C CO	METHOD OF DRILLING Totary Stool FWELL TO OF TOTAL TO IN.	WELL-DRILLER'S TELL (604) 857    driven   jetted       SCREEN LENGTH   3 m or	other (specify)	DATE OF LAS RECONSTRUCT  DEPTH TO TO  15.8	TON  WELL LOG AVA  Yes (attack P OF SCREEN	h)
TYPE SO	IELD DRILLIN  X 841, 25320 F  dergrowe, Bel  OFWELL  INTER dug differ (specify) —  HOFWELL  CAPACITY  T.  CAPACITY	C CONTRACTOR O	METHOD OF DRILLING Totary Cable tool	WELL-DRILLER'S TELL (604) 857    driven   jetted       SCREEN LENGTH   3 m or	other (specify)	DATE OF LAS' RECONSTRUCT  DEPTH TO TO	VYYY TION  WELL LOG AVAI  Yes (attack P OF SCREEN  in or	h)
TYPE DEPTH	JECD DRILLIN  X 841, 25320 F  dergrowe, Bel  OFWELL  Irilled dug dispectly der (spectly)  CAPACITY  18.0 Us or gpi	DIAMETER O	METHOD OF DRILLING    rotary   cable	WELL-DRILLER'S TELL (604) 857    driven   jetted     SCREEN LENGTH   3 m or     TON(S) (for bedrock wells):	other (specify)	DATE OF LAS' RECONSTRUCT  DEPTH TO TO	TON  WELL LOG AVA  Yes (attack P OF SCREEN	h) no no l. ction(s)
TYPE OFFTI	JECD DRILLIN  X 841, 25320 F  dergrowe, BC  OF WELL  Irilled dug dependy dependy dependence  CAPACITY  HEAD ENGLOSURE	DIAMETER O	METHOD OF DRILLING rotary Scable freell m or 10 In. N OF WATER-BEARING FRACT	WELL-DRILLER'S TELL (604) 857    driven   jetted       SCREEN LENGTH   3 m or	other (specify)	DATE OF LAS' RECONSTRUCT  DEPTH TO TO	THON  WELL LOG AVAI  WELL LOG AVAI  Yes (attack P OF SCREEN IN OF R-BEARING FRAI L/s or	h) no to
TYPE SO DEPTH	JECD DRILLIN  X 841, 25320 F  dergrowe, BC  OF WELL  Irilled dug dependy dependy dependence  CAPACITY  HEAD ENGLOSURE	DIAMETER O  LOCATION  PINCE  POPULIFY AND ATT	METHOD OF DRILLING rotary Stool FWELL m or 10 In. N OF WATER-BEARING FRACT	WELL-DRILLER'S TELL (604) 857    driven   jetted     SCREEN LENGTH   3 m or     ION(S) (for bedrock wells):   FACE SANITARY SEAL   10d to 6.1 m or	The fit of the fit of the fit of the fit of the fit of the fit of the fit of the fit of the fit of the fit of the fit of the fit of the fit of the fit of the fit of the fit of the fit of the fit of the fit of the fit of the fit of the fit of the fit of the fit of the fit of the fit of the fit of the fit of the fit of the fit of the fit of the fit of the fit of the fit of the fit of the fit of the fit of the fit of the fit of the fit of the fit of the fit of the fit of the fit of the fit of the fit of the fit of the fit of the fit of the fit of the fit of the fit of the fit of the fit of the fit of the fit of the fit of the fit of the fit of the fit of the fit of the fit of the fit of the fit of the fit of the fit of the fit of the fit of the fit of the fit of the fit of the fit of the fit of the fit of the fit of the fit of the fit of the fit of the fit of the fit of the fit of the fit of the fit of the fit of the fit of the fit of the fit of the fit of the fit of the fit of the fit of the fit of the fit of the fit of the fit of the fit of the fit of the fit of the fit of the fit of the fit of the fit of the fit of the fit of the fit of the fit of the fit of the fit of the fit of the fit of the fit of the fit of the fit of the fit of the fit of the fit of the fit of the fit of the fit of the fit of the fit of the fit of the fit of the fit of the fit of the fit of the fit of the fit of the fit of the fit of the fit of the fit of the fit of the fit of the fit of the fit of the fit of the fit of the fit of the fit of the fit of the fit of the fit of the fit of the fit of the fit of the fit of the fit of the fit of the fit of the fit of the fit of the fit of the fit of the fit of the fit of the fit of the fit of the fit of the fit of the fit of the fit of the fit of the fit of the fit of the fit of the fit of the fit of the fit of the fit of the fit of the fit of the fit of the fit of the fit of the fit of the fit of the fit of the fit of the fit of the fit of the fit of the fit of the fit of the fit of the fit of	DATE OF LAST RECONSTRUCT  DEPTH TO TO  / 5 · 8  TIELD OF WATER	WELL LOG AVAI  WELL LOG AVAI  Yes (attact P OF SCREEN  m or  TR-BEARING FRAI  L/s or  Ce seal  p	h) no t. CTION(S)
TYPE DEPTH WELL AVER	JECD DRILLIN  X 841, 25320 F  derato we Be  OF WELL  Iritled dug dither (specify) —  HOF WELL  20.1 m or	DIAMETER O  LOCATION  PIRE  POPULATION  HOW WA	METHOD OF DRILLING  rotary Cable  F WELL  m or /// in.  N OF WATER-BEARING FRACT  S PINCE none grou  S PUMPING RATE DETERMINE	WELL-DRILLER'S TELL (604) 857    driven   jetted     SCREEN LENGTH   3 m or     ION(S) (for bedrock wells):   FACE SANITARY SEAL   10d to 6.1 m or	The fit of the fit of the fit of the fit of the fit of the fit of the fit of the fit of the fit of the fit of the fit of the fit of the fit of the fit of the fit of the fit of the fit of the fit of the fit of the fit of the fit of the fit of the fit of the fit of the fit of the fit of the fit of the fit of the fit of the fit of the fit of the fit of the fit of the fit of the fit of the fit of the fit of the fit of the fit of the fit of the fit of the fit of the fit of the fit of the fit of the fit of the fit of the fit of the fit of the fit of the fit of the fit of the fit of the fit of the fit of the fit of the fit of the fit of the fit of the fit of the fit of the fit of the fit of the fit of the fit of the fit of the fit of the fit of the fit of the fit of the fit of the fit of the fit of the fit of the fit of the fit of the fit of the fit of the fit of the fit of the fit of the fit of the fit of the fit of the fit of the fit of the fit of the fit of the fit of the fit of the fit of the fit of the fit of the fit of the fit of the fit of the fit of the fit of the fit of the fit of the fit of the fit of the fit of the fit of the fit of the fit of the fit of the fit of the fit of the fit of the fit of the fit of the fit of the fit of the fit of the fit of the fit of the fit of the fit of the fit of the fit of the fit of the fit of the fit of the fit of the fit of the fit of the fit of the fit of the fit of the fit of the fit of the fit of the fit of the fit of the fit of the fit of the fit of the fit of the fit of the fit of the fit of the fit of the fit of the fit of the fit of the fit of the fit of the fit of the fit of the fit of the fit of the fit of the fit of the fit of the fit of the fit of the fit of the fit of the fit of the fit of the fit of the fit of the fit of the fit of the fit of the fit of the fit of the fit of the fit of the fit of the fit of the fit of the fit of the fit of the fit of the fit of the fit of the fit of the fit of the fit of the fit of the fit of the fit of the fit of the fit of	DATE OF LAST RECONSTRUCT  DEPTH TO TO  / 5. 8  TIELD OF WATER  no surface	WELL LOG AVAI  WELL LOG AVAI  Yes (attact P OF SCREEN  IN OF  L/s or  Ce seal	h) no to
TYPE ODEPTION WELL AVER	JECD DRILLIN  X 841, 25320 F  derato we Be  OF WELL  Irilled dug other (specify) —  HOF WELL  20.1 m or	DIAMETER O  LOCATION  DISCHOP  PISCE  POSCHIE  HOW WA  FILE  HOW WA  FILE  HOW WA  FILE  HOW WA  FILE   METHOD OF DRILLING TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL	WELL-DRILLER'S TELL (604) 857    driven   jetted     SCREEN LENGTH   3 m or     ION(S) (for bedrock wells):   FACE SANITARY SEAL   m or     D7	The fit of the fit of the fit of the fit of the fit of the fit of the fit of the fit of the fit of the fit of the fit of the fit of the fit of the fit of the fit of the fit of the fit of the fit of the fit of the fit of the fit of the fit of the fit of the fit of the fit of the fit of the fit of the fit of the fit of the fit of the fit of the fit of the fit of the fit of the fit of the fit of the fit of the fit of the fit of the fit of the fit of the fit of the fit of the fit of the fit of the fit of the fit of the fit of the fit of the fit of the fit of the fit of the fit of the fit of the fit of the fit of the fit of the fit of the fit of the fit of the fit of the fit of the fit of the fit of the fit of the fit of the fit of the fit of the fit of the fit of the fit of the fit of the fit of the fit of the fit of the fit of the fit of the fit of the fit of the fit of the fit of the fit of the fit of the fit of the fit of the fit of the fit of the fit of the fit of the fit of the fit of the fit of the fit of the fit of the fit of the fit of the fit of the fit of the fit of the fit of the fit of the fit of the fit of the fit of the fit of the fit of the fit of the fit of the fit of the fit of the fit of the fit of the fit of the fit of the fit of the fit of the fit of the fit of the fit of the fit of the fit of the fit of the fit of the fit of the fit of the fit of the fit of the fit of the fit of the fit of the fit of the fit of the fit of the fit of the fit of the fit of the fit of the fit of the fit of the fit of the fit of the fit of the fit of the fit of the fit of the fit of the fit of the fit of the fit of the fit of the fit of the fit of the fit of the fit of the fit of the fit of the fit of the fit of the fit of the fit of the fit of the fit of the fit of the fit of the fit of the fit of the fit of the fit of the fit of the fit of the fit of the fit of the fit of the fit of the fit of the fit of the fit of the fit of the fit of the fit of the fit of the fit of the fit of the fit of the fit of the fit of	DATE OF LAST RECONSTRUCT  DEPTH TO TO  / 5. 8  TIELD OF WATER  no surface	WELL LOG AVAI  WELL LOG AVAI  Yes (attact P OF SCREEN  IN OF  L/s or  Ce seal	h) no to	
TYPE ODEPTION WELL AVER	JECD DRILLIN  X 841, 25320 F  dergrowe, Be  OF WELL  Iritled dug deporty) —  HOF WELL  20.1 m or	DIAMETER O  LOCATION  DISCHOP  PISCE  POSCHIE  HOW WA  FILE  HOW WA  FILE  HOW WA  FILE  HOW WA  FILE   METHOD OF DRILLING  TOTAL  TOT	WELL-DRILLER'S TELL (604) 857    driven   jetted     SCREEN LENGTH   3 m or     ION(S) (for bedrock wells):   FACE SANITARY SEAL   m or     D7	The fit of the fit of the fit of the fit of the fit of the fit of the fit of the fit of the fit of the fit of the fit of the fit of the fit of the fit of the fit of the fit of the fit of the fit of the fit of the fit of the fit of the fit of the fit of the fit of the fit of the fit of the fit of the fit of the fit of the fit of the fit of the fit of the fit of the fit of the fit of the fit of the fit of the fit of the fit of the fit of the fit of the fit of the fit of the fit of the fit of the fit of the fit of the fit of the fit of the fit of the fit of the fit of the fit of the fit of the fit of the fit of the fit of the fit of the fit of the fit of the fit of the fit of the fit of the fit of the fit of the fit of the fit of the fit of the fit of the fit of the fit of the fit of the fit of the fit of the fit of the fit of the fit of the fit of the fit of the fit of the fit of the fit of the fit of the fit of the fit of the fit of the fit of the fit of the fit of the fit of the fit of the fit of the fit of the fit of the fit of the fit of the fit of the fit of the fit of the fit of the fit of the fit of the fit of the fit of the fit of the fit of the fit of the fit of the fit of the fit of the fit of the fit of the fit of the fit of the fit of the fit of the fit of the fit of the fit of the fit of the fit of the fit of the fit of the fit of the fit of the fit of the fit of the fit of the fit of the fit of the fit of the fit of the fit of the fit of the fit of the fit of the fit of the fit of the fit of the fit of the fit of the fit of the fit of the fit of the fit of the fit of the fit of the fit of the fit of the fit of the fit of the fit of the fit of the fit of the fit of the fit of the fit of the fit of the fit of the fit of the fit of the fit of the fit of the fit of the fit of the fit of the fit of the fit of the fit of the fit of the fit of the fit of the fit of the fit of the fit of the fit of the fit of the fit of the fit of the fit of the fit of the fit of the fit of the fit of the fit of the fit of	DATE OF LAST RECONSTRUCT  DEPTH TO TO  / 5. 8  TIELD OF WATER  no surface	WELL LOG AVAI  WELL LOG AVAI  Yes (attact P OF SCREEN  IN OF  L/s or  Ce seal	h) no to	
TYPE DEPTH WELL ANER ANER	JECD DRILLIN  X 841, 25320 F  deratowe, Be  OF WELL  Irilled dug other (specify) —  HOF WELL  20.1 m or	DIAMETER O  LOCATION  PITCE  HOW WA  HOW WA	METHOD OF DRILLING rotary Stool FWELL m or 10 In. N OF WATER-BEARING FRACT SPUMPING RATE DETERMINE W Metol S YOLUME PUMPED DETERMIN	WELL-DRILLER'S TELL (604) 857    driven   jetted     SCREEN LENGTH   3 m or     ION(S) (for bedrock wells):   FACE SANITARY SEAL   m or     D7	t.	DATE OF LAST RECONSTRUCT  DEPTH TO TO  / 5. 8  TIELD OF WATER  no surface	WELL LOG AVAI  WELL LOG AVAI  Yes (attact P OF SCREEN  IN OF  L/s or  Ce seal	h) no to
TYPE SO DEPTI	JECD DRILLIN  X 841, 25320 F  dergrowe Be  OF WELL  Iritled dug deporty) —  HOF WELL  20.1 m or ft.  CAPACITY  18.0 Us or gpp  HEAD ENCLOSURE  PUMPING RATE  2.1 Us or igp  AL VOLUME OF WATER PUMPED  Lor igal  ING CAPACITY	DIAMETER O  LOCATION  PITLE  POPORTIES  HOW WA  HOW WA  ANY CHA	METHOD OF DRILLING  TOTALLY CABNO  FWELL  TO 10 In.  N OF WATER-BEARING FRACT  S PARTE ORDER  TO 10 OF WATER-BEARING FRACT  S PUMPING RATE DETERMINE  WATER-BEARING FRACT  S VOLUME PUMPED DETERMINE  WIGGS OR REPAIRS MADE TO	WELL-DRILLER'S TELL (604) 857    driven   jetted     SCREEN LENGTH   3 m or     TON(S) (for bedrock wells):   FACE SANITARY SEAL   ted to   6 1 m or     ED?	t.	DATE OF LAST RECONSTRUCT  DEPTH TO TO  / 5. 8  TIELD OF WATER  THE OF INTAIN  THE	WELL LOG AVAI  WELL LOG AVAI  Yes (attact P OF SCREEN  IN OF  THE OF  CE SEATING  IL  THE OF   ttless adapter	
FOR ANNUAL PUMP	JECD DRILLIN  X 841, 25320 F  dergrowe Be  OF WELL  Iritled dug deporty) —  HOF WELL  20.1 m or ft.  CAPACITY  18.0 Us or gporty  MEAD ENCLOSURE  PUMPING RATE  2.1 Us or igp  AL VOLUME OF WATER PUMPED  Lor igal  ING CAPACITY  2.1 Us or igp	DIAMETER O  LOCATION  PITLE  POPORTIES  HOW WA  HOW WA  ANY CHA	METHOD OF DRILLING rotary Stool FWELL m or 10 In. N OF WATER-BEARING FRACT SPUMPING RATE DETERMINE W Metol S YOLUME PUMPED DETERMIN	WELL-DRILLER'S TELL (604) 857    driven   jetted     SCREEN LENGTH   3 m or     TON(S) (for bedrock wells):   FACE SANITARY SEAL   ted to   6 1 m or     ED?	t.	DATE OF LAST RECONSTRUCT  DEPTH TO TO  / 5. 8  TIELD OF WATER  THE OF INTAIN  THE	WELL LOG AVAI  WELL LOG AVAI  Yes (attact P OF SCREEN	th) no th. CTION(S) Igem Heless adapter PUMP AGE
FOR ALL TYPE  WELL  AVER  ANNU  PUMP  TYPE	DRILLIN  ** 841, 25320 F  dergrowe Be  OF WELL  Iritled dug dug other (specify) —  HOF WELL  20.1 m or ft.  CAPACITY  18.0 Us or gpp  HEAD ENCLOSURE manhole (specify)  HEAD ENCLOSURE  PUMPING RATE  2.1 Us or igp  AL VOLUME OF WATER PUMPED  L or igal  ING CAPACITY  2.1 Us or lop  OF STORAGE  Other	DIAMETER O  LOCATION  M  LOCATION  HOW WA  HOW WA  ANY CHA	METHOD OF DRILLING  TOTALLY CABNO  FWELL  TO 10 In.  N OF WATER-BEARING FRACT  S PARTE ORDER  TO 10 OF WATER-BEARING FRACT  S PUMPING RATE DETERMINE  WATER-BEARING FRACT  S VOLUME PUMPED DETERMINE  WIGGS OR REPAIRS MADE TO	WELL-DRILLER'S TELL (604) 857    driven   jetted     SCREEN LENGTH   3 m or     TON(S) (for bedrock wells):   FACE SANITARY SEAL   m or     D7    NED7  THE PUMPING EQUIPMENT? (6)	t.	DATE OF LAST RECONSTRUCT  DEPTH TO TO  / 5. 8  TIELD OF WATER  THE OF INTAIN  THE	WELL LOG AVAI  WELL LOG AVAI  Yes (attact P OF SCREEN  IN OF  THE OF  CE SEATING  IL  THE OF   ttless adapter	
F Bo A A TYPE WELL ANNU TYPE TYPE	DRILLIN  X 841, 25320 F  derato we Be  OF WELL  Iritled dug dug other (specify) —  HOF WELL  20.1 m or ft.  CAPACITY  18.0 Us or gpp  HEAD ENCLOSURE  PUMPING RATE  2.1 Us or igp  AL VOLUME OF WATER PUMPED  Lor igal  ING CAPACITY  2.1 Us or igp  OF STORAGE  OF STORAGE  OTHER   DIAMETER O  LOCATION  M  LOCATION  HOW WA  HOW WA  ANY CHA	METHOD OF DRILLING  TOTALLY CABNO  FWELL  TO 10 In.  N OF WATER-BEARING FRACT  S PARTE ORDER  TO 10 OF WATER-BEARING FRACT  S PUMPING RATE DETERMINE  WATER-BEARING FRACT  S VOLUME PUMPED DETERMINE  WIGGS OR REPAIRS MADE TO	WELL-DRILLER'S TELL (604) 857  Griven [] Jetted [] SCREEN LENGTH [] TON(S) (for bedrock wells):  FACE SANITARY SEAL [] THE PUMPING EQUIPMENT? (6)  STORAGE CAI	t.  ft.  pecify)  ACTY  L or  until bar is aver	DATE OF LASS RECONSTRUCT  DEPTH TO TO  / 5. %  TELD OF WATER  no surfar  EPTH OF INTAM  m of	TYVYY THON  WELL LOG AVA  Yes (attact P OF SCREEN  In or  R-BEARING FRA- L/s or  Ce seal	h) no  n.  tt.  CTION(S)  Igpm  Itless adapter  PUMP AGE  OR OUTLET?  no  ther records	
TYPE WELL  ANNU  PUMP  TYPE  ATTAC	DRILLIN  ** 841, 25320 F  dergrowe Be  OF WELL  Iritled dug dug other (specify) —  HOF WELL  20.1 m or ft.  CAPACITY  18.0 Us or gpp  HEAD ENCLOSURE manhole (specify)  HEAD ENCLOSURE  PUMPING RATE  2.1 Us or igp  AL VOLUME OF WATER PUMPED  L or igal  ING CAPACITY  2.1 Us or lop  OF STORAGE  Other	DIAMETER O  LOCATION  THOW WA  HOW WA  ANY CHA	METHOD OF DRILLING  TOTALLY CABNO  FWELL  TO 10 In.  N OF WATER-BEARING FRACT  S PARTE ORDER  TO 10 OF WATER-BEARING FRACT  S PUMPING RATE DETERMINE  WATER-BEARING FRACT  S VOLUME PUMPED DETERMINE  WIGGS OR REPAIRS MADE TO	WELL-DRILLER'S TELL  (604) 857  driven	t.  ft.  pecify)  ACTY  L or  until bar is aver	DATE OF LAST RECONSTRUCT  DEPTH TO TO  / 5. %  TELD OF WATER  no surface  EPTH OF INTAM  m of	WELL LOG AVAI  WELL LOG AVAI  Yes (attact P OF SCREEN	h) no  n.  tt.  CTION(S)  Igpm  Itless adapter  PUMP AGE  OR OUTLET?  no  ther records

DART III.	HYDROGEOLOGIC INFORMATION (Refer to Steps 1 and 2)	$\neg$
DEPTH TO PUMPING WATER LEVEL	DEPTH TO NON-PUMPING WATER LEVEL HOW WAS WATER LEVEL MEASURED?	$\dashv$
m or t	Mortt.	
IF WELL IS FLOWING, WHAT IS THE ARTESIAN	HOW IS PRESSURE HEAD AND FLOW MEASURED? (specify)  IF SOURCE IS A FLOWING WELL OR SPRING, IS THERE A STORAGE MOUNDMENT OR RESERVOIR ASSOCIATED WITH THIS SOURCE MOUNDMENT OR RESERVOIR ASSOCIATED WITH THIS SOURCE	E2
PRESSURE HEAD AND FLOW?	yes (specify)	i no
m or fl.		
WELLHEAD ELEVATION (helght above mean 670 m or	tt. survey attimeter topographic map (specify scale other (specify) (specify)	
LOG (e.g., day, till)	LOCATION OF CONFINING LAYER AT DEPTH  O m or  t.  THICKNESS OF CONFINING LAYER  THOM WELL LOG THOM THE LLOG THE THOM THE LLOG THOM THE LLOG THE THE THE THE THE THE THE THE THE THE	NG
IS YOUR WELL ASSOCIATED NAME OF AD	UIFER AQUIFER CLASSIFICATION AQUIFER CLASSIFICATION  ACTUAL METERS (from MoELP)	
WITH A KNOWN ACHIFER?	SIMMONS CE 387 387 [I]B (12)	
TYPE OF AQUIFER	ARE THERE OTHER HIGH-CAPACITY  yes	
unconsolidated, unconsolidated confined	bedrock (agricuftural, municipal and/or How many? 5   1229 m or   1229 m or	in.
AQUIFER TRANSMISSIVITY	HOW WAS TRANSMISSIVITY DETERMINED?	İ
1532_ m²/d or lgpc		ᅴ
HYDRAULIC GRADIENT	HOW WAS HYDRAULIC GRADIENT DETERMINED?  from well water levels   from topography   Other (specify) CVOSS Section	
0.11%		
PLEASE IDENTIFY OR DESCRIBE ADDITIONAL SOURCE, WHERE POSSIBLE, REFERENCE T	AL HYDROLOGIC OR GEOGRAPHIC CONDITIONS THAT YOU BELIEVE MAY AFFECT THE SHAPE OF THE CAPTURE ZONE FOR THIS THEM TO LOCATIONS ON THE MAP PRODUCED IN PART TV.	.
	eau report (Dec 2003).	
see riti	eau report (Dec 2003).	
		- 1
PART	IV: ASSESSMENT OF WATER QUALITY (Refer to Step 1)	
PART I	IV: ASSESSMENT OF WATER QUALITY (Refer to Step 1) EEN IN EXISTENCE? [2] HAS YOUR WELL EVER BEEN DEEPENED, CLEANED, NEW WELL CONSTRUCTED	17
1 HOW LONG HAS THE WATER SYSTEM BE	EEN IN EXISTENCE? 2 HAS YOUR WELL EVER BEEN DEEPENED, CLEANED, NEW WELL CONSTRUCTED	)? no
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THOW LONG HAS THE WATER SYSTEM BE SEP FCM BU  3 IN THIS TIME, HAVE THERE BEEN NANY WATER CUALITY PROBLEMS?  WHAT WATER CUALITY PROBLEMS?  WHAT WATER CUALITY PROBLEMS?  WHAT WATER CUALITY PROBLEMS?  WHAT WATER CUALITY PROBLEMS?  WHAT WATER CUALITY PROBLEMS THE PAST BASED ON SOURCE MONITORING RECORDS  CONTAMINATION PROBLEM FOUND IN DISTRESS  ONTAMINATION PROBLEM FOU	EEN IN EXISTENCE?    1978   2   HAS YOUR WELL EVER BEEN DEEPENED, CLEANED, NEW WELL CONSTRUCTED   1988 - Winy?   ROLL O VO. 15   Fastor o VII. III     1988 - Winy?   ROLL O VO. 15   Fastor o VII. III     1988 - Winy?   ROLL O VO. 15   Fastor o VII. III     1988 - Winy?   ROLL O VO. 15   Fastor o VII. III     1988 - Winy?   ROLL O VO. 15   Fastor o VII. III     1988 - Winy?   ROLL O VO. 15   Fastor o VII. III     1988 - Winy?   ROLL O VO. 15   Fastor o VII. III     1988 - Winy?   ROLL O VO. 15   Fastor o VII. III     1988 - Winy?   ROLL O VO. 15   Fastor o VII. III     1988 - Winy?   ROLL O VO. 15   Fastor o VII. III     1988 - Winy?   ROLL O VO. 15   ROLL O VII. III     1988 - Winy?   ROLL O VII. III     19	7
THOW LONG HAS THE WATER SYSTEM BE  SEP CM BC  3 IN THIS TIME, HAVE THERE BEEN IFY ANY WATER QUALITY PROBLEMS?  WATER QUALITY PROBLEMS?  WATER CHART WATER QUALITY PACTED TO THE PACTED TO THE PACTED TO THE PACTED TO THE PACTED TO THE PACTED TO THE PACTED TO THE PACTED TO THE PACTED TO THE PACTED TO THE PACTED TO THE PACTED TO THE PACTED TO THE PACTED TO THE PACTED TO THE PACTED TO THE PACTED TO THE PACTED TO THE PACTED TO THE PACTED TO THE PACTED TO THE PACTED TO THE PACTED TO THE PACTED TO THE PACTED TO THE PACTED TO THE PACTED TO THE PACTED TO THE PACTED TO THE PACTED TO THE PACTED TO THE PACTED TO THE PACTED TO THE PACTED TO THE PACTED TO THE PACTED TO THE PACTED TO THE PACTED TO THE PACTED TO THE PACTED TO THE PACTED TO THE PACTED TO THE PACTED TO THE PACTED TO THE PACTED TO THE PACTED TO THE PACTED TO THE PACTED TO THE PACTED TO THE PACTED TO THE PACTED TO THE PACTED TO THE PACTED TO THE PACTED TO THE PACTED TO THE PACTED TO THE PACTED TO THE PACTED TO THE PACTED TO THE PACTED TO THE PACTED TO THE PACTED TO THE PACTED TO THE PACTED TO THE PACTED TO THE PACTED TO THE PACTED TO THE PACTED TO THE PACTED TO THE PACTED TO THE PACTED TO THE PACTED TO THE PACTED TO THE PACTED TO THE PACTED TO THE PACTED TO THE PACTED TO THE PACTED TO THE PACTED TO THE PACTED TO THE PACTED TO THE PACTED TO THE PACTED TO THE PACTED TO THE PACTED TO THE PACTED TO THE PACTED TO THE PACTED TO THE PACTED TO THE PACTED TO THE PACTED TO THE PACTED TO THE PACTED TO THE PACTED TO THE PACTED TO THE PACTED TO THE PACTED TO THE PACTED TO THE PACTED TO THE PACTED TO THE PACTED TO THE PACTED TO THE PACTED TO THE PACTED TO THE PACTED TO THE PACTED TO THE PACTED TO THE PACTED TO THE PACTED TO THE PACTED TO THE PACTED TO THE PACTED TO THE PACTED TO THE PACTED TO THE PACTED TO THE PACTED TO THE PACTED TO THE PACTED TO THE PACTED TO THE PACTED TO THE PACTED TO THE PACTED TO THE PACTED TO THE PACTED TO THE PACTED TO THE PACTED TO THE PACTED TO THE PACTED TO THE PACTED TO THE PACTED TO THE PACTED TO THE PACTED TO THE PACTED TO THE PACTED TO THE PACTED T	EEN IN EXISTENCE?  I 9 78  I 19 78  I 19 78  I 19 78  I 19 78  I 19 78  I 19 78  I 19 78  I 19 78  I 19 78  I 19 78  I 19 78  I 19 78  I 19 78  I 19 78  I 19 78  I 19 78  I 19 78  I 19 78  I 19 78  I 19 78  I 19 78  I 19 78  I 19 78  I 19 78  I 19 78  I 19 78  I 19 78  I 19 78  I 19 78  I 19 78  I 19 78  I 19 78  I 19 78  I 19 78  I 19 78  I 19 78  I 19 78  I 19 78  I 19 78  I 19 78  I 19 78  I 19 78  I 19 78  I 19 78  I 19 78  I 19 78  I 19 78  I 19 78  I 19 78  I 19 78  I 19 78  I 19 78  I 19 78  I 19 78  I 19 78  I 19 78  I 19 78  I 19 78  I 19 78  I 19 78  I 19 78  I 19 78  I 19 78  I 19 78  I 19 78  I 19 78  I 19 78  I 19 78  I 19 78  I 19 78  I 19 78  I 19 78  I 19 78  I 19 78  I 19 78  I 19 78  I 19 78  I 19 78  I 19 78  I 19 78  I 19 78  I 19 78  I 19 78  I 19 78  I 19 78  I 19 78  I 19 78  I 19 78  I 19 78  I 19 78  I 19 78  I 19 78  I 19 78  I 19 78  I 19 78  I 19 78  I 19 78  I 19 78  I 19 78  I 19 78  I 19 78  I 19 78  I 19 78  I 19 78  I 19 78  I 19 78  I 19 78  I 19 78  I 19 78  I 19 78  I 19 78  I 19 78  I 19 78  I 19 78  I 19 78  I 19 78  I 19 78  I 19 78  I 19 78  I 19 78  I 19 78  I 19 78  I 19 78  I 19 78  I 19 78  I 19 78  I 19 78  I 19 78  I 19 78  I 19 78  I 19 78  I 19 78  I 19 78  I 19 78  I 19 78  I 19 78  I 19 78  I 19 78  I 19 78  I 19 78  I 19 78  I 19 78  I 19 78  I 19 78  I 19 78  I 19 78  I 19 78  I 19 78  I 19 78  I 19 78  I 19 78  I 19 78  I 19 78  I 19 78  I 19 78  I 19 78  I 19 78  I 19 78  I 19 78  I 19 78  I 19 78  I 19 78  I 19 78  I 19 78  I 19 78  I 19 78  I 19 78  I 19 78  I 19 78  I 19 78  I 19 78  I 19 78  I 19 78  I 19 78  I 19 78  I 19 78  I 19 78  I 19 78  I 19 78  I 19 78  I 19 78  I 19 78  I 19 78  I 19 78  I 19 78  I 19 78  I 19 78  I 19 78  I 19 78  I 19 78  I 19 78  I 19 78  I 19 78  I 19 78  I 19 78  I 19 78  I 19 78  I 19 78  I 19 78  I 19 78  I 19 78  I 19 78  I 19 78  I 19 78  I 19 78  I 19 78  I 19 78  I 19 78  I 19 78  I 19 78  I 19 78  I 19 78  I 19 78  I 19 78  I 19 78  I 19 78  I 19 78  I 19 78  I 19 78  I 19 78  I 19 78  I 19 78  I 19 78  I 19 78  I 1	7
I HOW LONG HAS THE WATER SYSTEM BE  SEP CM BC  3 IN THIS TIME, HAVE THERE BEEN NAY WATER QUALITY PROBLEMS?  WALL YES NO GONT KNOW INTO HE PAST WHAT WATER QUALITY PROBLEM FOR THE EFFORM OF THE WATER AND THE PAST WHAT WERE THE EFFORM OF THE PAST WATER OF THE WATER OF THE WATER OF THE WATER OF THE WATER OF THE WATER OF THE WATER OF THE WATER OF THE WATER OF THE WATER OF THE WAS ATTRIBUTED TO THE SOURCE?  WAS THE BACTERIOLOGICAL CONTAMINATION	HAS YOUR WELL EVER BEEN DEEPENED, CLEANED, NEW WELL CONSTRUCTED   Yes - Winy?   COLUMB   To Fastor Yill	7
I HOW LONG HAS THE WATER SYSTEM BE  SEP CM SU  3 IN THIS TIME, HAVE THERE BEEN NANY WATER CUALITY PROBLEMS?  WAAT WATER CUALITY PROBLEMS?  WAAT WATER CUALITY PROBLEMS?  WAAT WATER CUALITY PROBLEMS?  WAAT WATER CUALITY PROBLEMS?  WHAT WATER CUALITY PROBLEMS?  WHAT WATER CUALITY PROBLEMS?  WHAT WATER CUALITY PROBLEMS?  WAS THE BACTERIOLOGICAL CONTAMINATION PROBLEM FOUND IN DIST THAT WAS ATTRIBUTED TO THE SOURCE?  WAS THE BACTERIOLOGICAL CONTAMINATION PROBLEM FOUND IN DIST THAT WAS ATTRIBUTED TO THE SOURCE?  WAS THE BACTERIOLOGICAL CONTAMINATION PROBLEMS FOUND IN DISTRIBUTED TO THE SOURCE?  WAS THE BACTERIOLOGICAL CONTAMINATION PROBLEMS FOUND IN DISTRIBUTED TO THE SOURCE?	HAS YOUR WELL EVER BEEN DEEPENED, CLEANED, NEW WELL CONSTRUCTED   Yes - Winy?   COLUNDO   15 FESTOR YILL	7
HOW LONG HAS THE WATER SYSTEM BE  SEP FCM BC  3 IN THIS TIME, HAVE THERE BEEN NANY WATER CUALITY PROBLEMS? WAS THE BEEN NANY WATER CUALITY PROBLEMS? WAS THE BASE OUR CONTAMINATION: WHAT WATER CUALING WHAT WERE THE EFF.  41  ANY BACTERIAL DETECTION(S) IN THE PAST BASE OUR CONTAMINATION PROBLEM FOUND IN DISTRIBUTED TO THE SOURCE? WAS THE BACTERIOLOGICAL CONTAMINATION THE SOURCE? WAS THE BACTERIOLOGICAL CONTAMINATION THE SOURCE? WAS THE BACTERIOLOGICAL CONTAMINATION THE SOURCE? WAS THE BACTERIOLOGICAL CONTAMINATION THE SOURCE? WAS THE BACTERIOLOGICAL CONTAMINATION THE SOURCE? WAS THE BACTERIOLOGICAL CONTAMINATION THE SOURCE? WAS THE BACTERIOLOGICAL CONTAMINATION THE SOURCE? WAS THE BACTERIOLOGICAL CONTAMINATION THE SOURCE?  WAS THE BACTERIOLOGICAL CONTAMINATION THE SOURCE?  WAS THE BACTERIOLOGICAL CONTAMINATION THE SOURCE?  WAS THE BACTERIOLOGICAL CONTAMINATION THE SOURCE?  WAS THE BACTERIOLOGICAL CONTAMINATION THE SOURCE?  WAS THE BACTERIOLOGICAL CONTAMINATION THE SOURCE?  WAS THE BACTERIOLOGICAL CONTAMINATION THE SOURCE?  WAS THE BACTERIOLOGICAL CONTAMINATION THE SOURCE?  WAS THE BACTERIOLOGICAL CONTAMINATION THE SOURCE?  WAS THE BACTERIOLOGICAL CONTAMINATION THE SOURCE?  WAS THE BACTERIOLOGICAL CONTAMINATION THE SOURCE?  WAS THE BACTERIOLOGICAL CONTAMINATION THE SOURCE?  WAS THE BACTERIOLOGICAL CONTAMINATION THE SOURCE?	PRODUCTO   PROBLEM?	7
THE SOURCE?  WAS THE BACTERIOLOGICAL CONTAMINATIC CROSS-CONNECTTIONS?	AS YOUR WELL EVER BEEN DEEPENED, CLEANED, NEW WELL CONSTRUCTED   Yes - Winy?   COLUMN   Tested	7

## **Appendix 1.3 Well Assessment Form (continued)**

SOURCE-SPECIFIC WATER QUALITY RECORDS (Refer to Step 1)

Please indicate the occurrence of any test results in the last 10 years that meet the following conditions:

PARAMETER	RECURRING PROBLEMS	TEST RESULTS	EXCEEDENCES OF CDWQG 1
Bacteriological Total/Faecal Colliforms Background Heterotrophic plate counts Iron and Sulphate Reducers	NOME		
Disinfection by-products Bromodichloromethane Dibromochloromethane Chloroform	NONE		
Physical Parameters pH, colour, alkalinity, specific conductance, hardness, total dissolved solids, total organic carbon, turbidity	turbidity >MAC	1.80	Jul 00, Dec 01
Inorganic Parameters Nitrates, fluoride, sulfate, sulphide, ammonia, chloride, nitrite, nitrogen (organic)	NONE		
Metals* Calclum, iron, magneskum, manganese, sodium	NONE		

<sup>1</sup> Canadian Drinking Water Quality Guldelines, 6th edition

Please sketch in the box below the location sampling point with respect to the well. WELL HEAD STATION IN AGGREGATE BARREL 3 SECTION STEAL LID

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<sup>\*</sup> A metal scan is usually performed every 3 years at least, and includes aluminum, arsenic, barium, cadmium, chromium, copper, lead, molybdenum, nickel, phosphorus, silver and zinc.

PART V: WA	TER TRE	ATMENT	INFORM/	TION (Re	efer to	Step 1)	
IS THIS SOURCE TREATED?   IF YES, TYPE OF TREAT	_			— · ·		other	
yes no disinfection	filtration	carbon filter	air stripper	water so	rener [	(specify)	
PURPOSE OF TREATMENT							
IF SOURCE IS CHLORINATED, Total Chlorine IS A CHLORINE RESIDUAL   MAINTAINED?	1	Chlorine ppm	<u></u>	RESIDUAL LEVE			
IS THERE ANY WATER STORAGE IN THE SYSTEM?	yes [	no	IS THE WATE	R TREATMENT BE E UNIT?	FORE OR A	TER [	before after
WHAT IS THE TOTAL AND Total Chlorine FREE CHLORINE IN THE DISTRIBUTION SYSTEM? PR	1	Chlorine ppm	IS THERE AN'	ADDITIONAL	1	al Chlorine P	Free Chlorine
WHAT TYPE OF CHEMICALS ARE USED IN THIS PROCES	SS? (specify)		WHERE ARE	CHEMICALS STO	RED?		
IS THERE PROPER STORAGE Yes IF STORED FOR THESE CHEMICALS? no	IN PUMP HOUSE	, HOW ARE CHE	MICALS ISOLAT	ED FROM THE W	ELL?		
PART VI: MAPPING THE	APTURE	ZONE TO	YOUR	COMMUN	ITY WE	LL (Ref	er to Step 2}
A man (1:5000 to 1:20 000 are typical s	cales) will t	e needed t					
Multiple wells in the same area can be	plotted on	one map.				NE (refer t	o Appendix 2.2)*
*attach calculation sheets	to Appendix 2 RADIUS (m)	.1)	Downgradien		PI UNE ZC	Width of	o Appendix 2:2/
	tear		distance		m	capture zone	<u> </u>
3/1	Dec.	2003	is there a ri surface wat boundary?	ver, lake, pond, er body within th	stream or ot ne 6-month t	her obvious ime of travel	yes (identily on map) no
हिंदी (5-year travel time)*			is there a s	ormwater and/o	r wastewate	r facility,	yes (Identify on map)
(1-year travel time)*  (1-year travel time)*  (10-year travel time)*			treatment la 6-month tim	goon or holding e of travel boun	pond locate dary?	d within the	no
PAR	r VII: SO	URCE SU	RVEY (R	efer to Si	ep 3)		100,000
4 REGIONAL SOURCES OF RISK TO GROUND WATER Please Indicate it any of the following poten	ntial sources	of contamin	ation within	the capture z	one. S	ee	W205-1
ACTIVITY	T.O.T. NOT SPECIFIED	1-YEAR	5-YEAR	10-YEAR		COI	MENTS
Chemical Storage (specify)	Or CON ICO						
Injection wells			<u> </u>	_			
Abandoned wells							
Landfills, dumps, disposal areas	<del>                                     </del>						
Commercial/industrial sites			l	-			
Known hazardous materials clean-up site							
Household hazardous waste							
Population density > 2 houses per hectare							
On-site sewage treatment					Ī		
Wastewater treatment facility			· ·		·		
Sites used for land application of waste							
Golf course	ļ						
Dairy or beef farms				Ī			
Poultry barns							
Hobby farms		,					
Fields: vegetables, hay, fruit (specify)	,						
Mining operations							
Gravel pits							
** Mark and identify on map any of the potentia	al sources liste	ed above which	h are located	within the cap	olure zone	boundary.	
SEPTIC FIELD SETBACK GRADIENT TO upgrade	SEPTIC FIELD downgrad	ie same	grade COMMU	DENSITY NITY SYSTEM	OF ON-SITE		POSAL SYSTEMS
m or ft	×	•					
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PROJECT:	RMOW - Whistler Village	CASING STICE	KUP: 2 f	t (0.6 m	1)	WELL NO	O: 4-06
PHCL PRÓ	JECT NO: R711109	STATIC WATE	R LEVEL	: 22.7	0 ft (6.92 m)	PUMPING	TEST: Yes
LOCATION	: Southeast Corner of Lot 5028	COMPLETION	DEPTH:	66 ft (	(20.1 m)	WATER A	NALYSIS: Yes
DEPTH	DESCRIPTION		DEPTH (ft)	SYMBOL	WELL DAT	A.	REMARKS
0 m m	Ground Surface	<u> </u>	ō			10" (250 mm) di	iameter well casing stickup
10 - 5 - 5 - 5 - 5 - 5 - 5 - 5 - 5 - 5 -	Clay, Sand and Gravel  0 to 17 ft (0 to 5.2 m) - brown  Clay  17 to 30 ft (5.2 to 9.1 m) - brown, gravel compact	ly, very	-17			casing was wit surface seal of	12" (300 mm) diameter surface hdrawn during placement of a bentonite grout.  el on July 4, 2000 = 22.7 ft renced to ground level.
40 - 15 50 - 15	Clay 30 to 37 ft (9.1 to 11.3 m) - gravelly, sar  Sand and Gravel 37 to 51 ft (11.3 to 15.5 m) - trace of cla	·	-37		11.0000.0000.000	Top of 10 to 8"  K-type packe pipe, at top of	e at 51 ft (15.5 m).  (250 to 200 mm) reducing er, and 2 ft (0.6 m) long riser 17.75 ft (5.4 m) long well
55 - 60 - 20	Gravel	ace of gravel, 4 to 66 ft)	-62	000000000000000000000000000000000000000		10 lt (3.0 m) of stainless steel 61.7 ft (15.8 4.3 ft (1.3 m) le	•
75 —	69 to 73 ft (21.0 to 22.3 m) - silty, with  Clay  73 to 74 ft (22.3 to 22.6 m) - grey, with		73			Note that the idiameter (tel	.d. of the 8" (200 mm) nominal escopic) well screen = 6.6"
	CTOR: Field Drilling Contractors	DATE: 06	/27/00		S	Consulting Hydraite 201, 1537 We	est 8th Avenue
PAGE: 1	of 1	FIGURE:	3		VAI	COUVER, B.C. Telephone: (604	Canada V6J 1T5 4) 730-6990

#### **Appendix 1.3 Well Assessment Form**



BRITISH Ministry of Health and Ministry of Enviror Lands and Parks

Ministry of Environment,

#### WELL ASSESSMENT FORM

TO BE USED WITH THE WELL PROTECTION TOOLKIT.

IMPORTANTI Please complete one form for each ground water source used in your water system. Fill in available information. If missing information, it may be advisable to contact the Ministry of Environment, Lands and Parks' Groundwater Section [(250) 387-1115], or the local driller who drilled the well, to assist. Photocopy this form as necessary.

	RT I: WEL	L SYSTEM	INFORMA			p 1)
WATER SYSTEM LEGAL NAME				ESCRIPTION OF WE	LL LOCATION	
Moine Meador	V.S.	W202	<b>%</b> 8	01 HV	vy 6	19
WATER SYSTEM LEGAL ADDRESS.						
LATITUDE / LONGITUDE	HOW WERE LOC	ATION COORDINA	TES DETERMINED?	-		· · · · · · · · · · · · · · · · · · ·
50° 01' 01.1" 122° 57' 43.5'	GPS	(spe	city accuracy)	survey dig	itized from	1,20,000 map (specify scale)
UTM COORDINATES	HOW MANY OTHE	<b>a</b> 0	DOES TH	E WATER SYSTEM		
	WELLS MAKE UP WATER SYSTEM?	THE /	ALSO USI	E A SURFACE DURCE? (describe)	Yes -	- Aanew Crook
NUMBER OF CONNECTIONS	POPULATION SEI			SONOET (DESCRIPE)	10,	Agnew Creek
Maximum Actual 750	1 01 00 011 00.	dom	/	on Commerci	al Indu	ustrial
WIN NO.		AS NO.		<del></del>	WELL TAG N	0
804	-	ns 110.	304	-	1100	41389
					~	
Contact your local WIN NO. = MoELP's metal tag affixed to the wildentification.	ell for on-site   EM	ronment, Lands IS NO. ≃ McELP's air database.	site number for the	rater chemistry on	BC WELL TAG	NO. = MoELP's computer number for the well.
Bulk supply X yes no	Back-up supply	yes [	no Emergen	cy supplyye	s no	Metered X yes no
WELL OPERATOR						WELL OPERATOR'S PHONE NO.
RMOW WELL OPERATOR'S ADDRESS 4325 BL WELL OWNER Same OF						(604) 932 5535
WELL OPERATOR'S ADDRESS						
1325 BL	ACKC	OMB	WAY	WHI	SILF	K
WELL OPERATORS ADDRESS 4325 BL WELL OWNER Same as						WELL OWNER'S PHONE NO.
BE same ac	. ab	ow.				( )
WELL OWNER'S ADDRESS				., ,,,		
*						
PART II:	WELL CO	NSTRUCT	TION INFOR	MATION (F	eter to	Step 1)
WELL-DRILLER'S NAME, COMPANY AND ADDR			POS	TAL CODE	1	DATE WELL YYYY MM DD
DRILLWELL ENTER	PRISES	•	Ι ,	194 47	ا ہ	ORIGINALLY CONSTRUCTED 1010
4914 Polkey Foad			- 1	•	- 1	1979
			:	L-DRILLER'S TELEP		DATE OF LAST
Duncan, BC			; ( <b>)</b>	50)746-5	268	RECONSTRUCTION
TYPE OF WELL	LACT	THOD OF DRILLING	g N/A			WELL LOG AVAILABLE?
NZI dana		l enteror [ ] CB	ble [ ] arban	☐ ietted ☐ ?	ther	yes (attach) no
	DIAMETER OF WEL	100	SCREENU		specify)	DEPTH TO TOP OF SCREEN
2 2	DIAMETER OF HEL	LE	SCREENC	CIO II		
	250 -		n 96			ID.O mov h
		n or	_ in.   <u>9.5</u>	m or	ft.	10.0 m or ft.
WELL CAPACITY		NATER-BEARING (	_ in.   <u>9.5</u> FRACTION(S) (for be			ELD OF WATER-BEARING FRACTION(S)
WELL CAPACITY  34.7 L/s or		N OF	FRACTION(S) (for be	drock wells):		
WELL CAPACITY  34 7 L/s or igpm  WELLHEAD ENCLOSURE	LOCATION OF V		FRACTION(S) (for be	drock wells):		ELD OF WATER-BEARING FRACTION(S)  L/s or lgpm
WELL CAPACITY  34 7 L/s or igpm  WELLHEAD ENCLOSURE other    pump house   manhole (spec	LOCATION OF V	none	SURFACE SANITAL	drock wells):	A R.	L/s or igpm no surface seal philess adapter
WELL CAPACITY  34 7 L/s or Igpm  WELLHEAD ENCLOSURE manhole other AVERAGE PUMPING RATE N/A	LOCATION OF V		SURFACE SANITAL	drock wells):	A R.	ELD OF WATER-BEARING FRACTION(S)  Us or ligpm  In no surface seal pitiess adapter  PTH OF INTAKE SETTING PUMP AGE
WELL CAPACITY  34 7 L/s or Igpm  WELLHEAD ENCLOSURE other  pump house manhole other (special contents)  AVERAGE PUMPING RATE // 9  L/s or Igpm	LOCATION OF V	none	FRACTION(S) (for be SURFACE SANITAL grouted to RMINED?	drock wells):	A R.	L/s or igpm no surface seal philess adapter
WELL CAPACITY  34 7 L/s or Igpm  WELLHEAD ENCLOSURE other  pump house manhole other (special content of the content of the content of the content of the content of the content of the content of the content of the content of the content of the content of the content of the content of the content of the content of the content of the content of the content of the content of the content of the content of the content of the content of the content of the content of the content of the content of the content of the content of the content of the content of the content of the content of the content of the content of the content of the content of the content of the content of the content of the content of the content of the content of the content of the content of the content of the content of the content of the content of the content of the content of the content of the content of the content of the content of the content of the content of the content of the content of the content of the content of the content of the content of the content of the content of the content of the content of the content of the content of the content of the content of the content of the content of the content of the content of the content of the content of the content of the content of the content of the content of the content of the content of the content of the content of the content of the content of the content of the content of the content of the content of the content of the content of the content of the content of the content of the content of the content of the content of the content of the content of the content of the content of the content of the content of the content of the content of the content of the content of the content of the content of the content of the content of the content of the content of the content of the content of the content of the content of the content of the content of the content of the content of the content of the content of the content of the content of the content of the content of	LOCATION OF V	none	FRACTION(S) (for be SURFACE SANITAL grouted to RMINED?	drock wells):	A R.	ELD OF WATER-BEARING FRACTION(S)  Us or ligpm  In no surface seal pitiess adapter  PTH OF INTAKE SETTING PUMP AGE
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#### **Appendix 1.3 Well Assessment Form (continued)**

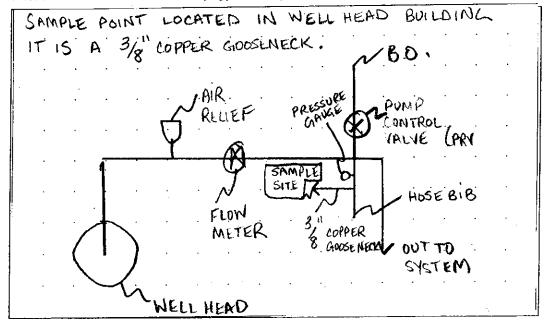
SOURCE-SPECIFIC WATER QUALITY RECORDS (Refer to Step 1)

Please indicate the occurrence of any test results in the last 10 years that meet the following conditions:

PARAMETER	RECURRING PROBLE		TEST RESULTS	EXCEEDENCES OF CDWQG 1
Bacteriological Total/Faecal Coliforms Background Heterotrophic plate counts Iron and Sulphate Reducers	Total colifums	7/29/03 8/26/03 9/03/03 10/07/03	2 counts/100ml 140 " 2 " 3 "	none
Disinfection by-products Bromodichloromethane Dibromochloromethane Chloroform	NONE			
Physical Parameters pH, colour, alkalinity, specific conductance, hardness, total dissolved solids, total organic carbon, turbidity	NONE			
Inorganic Parameters Nitrates, fluoride, sulfate, sulphide, ammonia, chloride, nitrite, nitrogen (organic)	NONE			
Metals* Calcium, iron, magnesium, manganese, sodium	NONE		1 & .	

<sup>1</sup> Canadian Drinking Water Quality Guidelines, 6th edition

Please sketch in the box below the location sampling point with respect to the well.



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<sup>\*</sup> A metal scan is usually performed every 3 years at least, and includes aluminum, arsenic, barium, cadmium, chromium, copper, lead, molybdenum, nickel, phosphorus, silver and zinc.

						INFORM				
IS THIS SO	ionen Lo		OF TREATM						other	
y	yes XXIno ¦[	i distrilec	tion	filtration	carbon filter	air stripper	water so	oftener	(specify)	
PURPOSE	OF TREATMENT									
E SOURCE	E IS CHLORINATED,	Total	I Chlorine	Free	Chlorine	WHAT IS THE	RESIDUAL LEVE	L OF TREATM	ENT?	
	RINE RESIDUAL		ppe	m	ppm					
S THERE	ANY WATER STORAGE	IN THE SY	STEM?	yes	no	IS THE WATE THE STORAG	R TREATMENT B VE UNIT?			before after
	HE TOTAL AND ORINE IN THE	Tota	l Chlorine	Free	Chlorine		Y ADDITIONAL DDED AFTER	Tota	f Chlorine	Free Chlorine
	TION SYSTEM?		ppir	n	ppm	THE SOURCE	E (rechlorination)	<u> </u>	ppm	
WHAT TYP	E OF CHEMICALS ARE	USED IN TH	(IS PROCES	S? (specify)		WHERE ARE	CHEMICALS STO	RED?		
	PROPER STORAGE	_ yes	IF STORED I	N PUMP HOUSE	, HOW ARE CHE	MICALS ISOLAT	ED FROM THE W	ELL?		
	PART VI: MA	_ ™   PPING	THE C	APTURE	ZONE TO	YOUR	COMMUN	ITY WE	LL (Refer	to Step 2)
A map	(1:5000 to 1:20, le wells in the sa	000 are l	typical s	cales) will l	be needed t					
	CIRCULAR CAP					P	ARABOLIC CA	PTURE ZOI	NE (refer to Ap	pendix 2.2)*
*attac	ch calculation sheet		<del></del>	RADIUS (m)		Downgradien		•	Width of	
	ry Fixed Radius	20	0 P	-0C +		distance		m	capture zone	
80	(1-year travel time)	Re	DOCT	- Dec	- 2003	Is there a ri surface wat boundary?	ver, lake, pond, er body within th	stream or oth ne 6-month tir	er obvious TV ne of travel	yes (identify on map) no
Madius	(5-year travel time)		1				torrnwater and/o	e wastewater	foodby [	yes (identify on map)
용물는	(10-year travel time			<del>.</del>		treatment la	goon or holding te of travel boun	pond located	within the	
								-1		
	NAL SOURCES OF RISK Indicate It any of th	e followi	ID WATER	tial sources	of contamina	tion within	1	****	COMME	aute
lease li	ndicate if any of the	e followi	ID WATER		· · · · · · · · · · · · · · · · · · ·		· · · · · · · · · · · · · · · · · · ·	****	COMME	HTS
Chemica	ACTIVITY al Storage (specify)	e followi	ID WATER	tial sources	of contamina	tion within	the capture z	****	COMME	NTS
Chemica Chemica Injection	ACTIVITY al Storage (specify) wells	e followi	ID WATER	tial sources	of contamina	tion within	the capture z	one.		NTS
Chemica Injection Abandoo	ACTIVITY al Storage (specify) n wells	ne followi	ID WATER	tial sources	of contamina	tion within	the capture z	****	COMME Wells	HTS
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Chemics Chemics Injection Abandon Landfills Comme	ACTIVITY al Storage (specify) wells ned wells dumps, disposal a	ne followi	NO WATER	tial sources	of contamina	tion within	the capture z	one.		NTS
Chemica Chemica Injection Abandon Landfills Commen	ACTIVITY al Storage (specify) n wells ned wells s, dumps, disposal a relatindustrial sites hazardous materials	areas	NO WATER	tial sources	of contamina	tion within	the capture z	one.		NTS
Chemica Injection Abandol Landfills Commel Known It Household	ACTIVITY all Storage (specify) wells ned wells c, dumps, disposal a relal/industrial sites hazardous material old hazardous wast	ne followi de followi de followi areas	ing potential	tial sources	of contamina	tion within	the capture z	one.		NTS
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Chemica Injection Abandon Landfills Commel Known H Househo On-site s Wastewa Golf could Dairy or Poultry b Hobby fa	ACTIVITY all Storage (specify) n wells ned wells s, dumps, disposal a relatindustrial sites hazardous material old hazardous wast on density > 2 hous sewage treatment ater treatment facili ed for land applications beef farms parms	areas s clean-up e ses per he	NO WATER	tial sources	of contamina	tion within	the capture z	one.		HTS
Chemica Injection Abandon Landfills Commer Known It Household Commer Wastewa Sites used Golf court or Pouttry belobby far Fields: v	ACTIVITY al Storage (specify) n wells ned wells s, dumps, disposal a rotal/industrial sites hazardous materials old hazardous wast ion density > 2 hous sewage treatment ater treatment facili ed for land applications beef farms parms vegetables, hay, frui	areas s clean-up e ses per he	NO WATER	tial sources	of contamina	tion within	the capture z	one.		HTS
Chemica Injection Abandon Landfills Commer Known It Househo Population On-site s Wastewa Sites used Golf cour Dairy or Pouttry b Hobby fa Fields: v Wining of	ACTIVITY all Storage (specify) n wells ned wells nod wells nod wells nod hazardous materials old hazardous wast ion density > 2 hous sewage treatment ater treatment facilit ed for land applications beef farms parms parms pregetables, hay, frui perations	areas s clean-up e ses per he	NO WATER	tial sources	of contamina	tion within	the capture z	one.		INTS
Chemica Chemica Chemica Injection Abandon Landfills Commer Household Commer Chemica Chemica Chemica Chemica Chemica Chemica Chemica Chemica Chemica Chemica Chemica Chemica Chemica Chemica Chemica Chemica Chemica Chemica Chemica Chemica Chemica Chemica Chemica Chemica Chemica Chemica Chemica Chemica Chemica Chemica Chemica Chemica Chemica Chemica Chemica Chemica Chemica Chemica Chemica Chemica Chemica Chemica Chemica Chemica Chemica Chemica Chemica Chemica Chemica Chemica Chemica Chemica Chemica Chemica Chemica Chemica Chemica Chemica Chemica Chemica Chemica Chemica Chemica Chemica Chemica Chemica Chemica Chemica Chemica Chemica Chemica Chemica Chemica Chemica Chemica Chemica Chemica Chemica Chemica Chemica Chemica Chemica Chemica Chemica Chemica Chemica Chemica Chemica Chemica Chemica Chemica Chemica Chemica Chemica Chemica Chemica Chemica Chemica Chemica Chemica Chemica Chemica Chemica Chemica Chemica Chemica Chemica Chemica Chemica Chemica Chemica Chemica Chemica Chemica Chemica Chemica Chemica Chemica Chemica Chemica Chemica Chemica Chemica Chemica Chemica Chemica Chemica Chemica Chemica Chemica Chemica Chemica Chemica Chemica Chemica Chemica Chemica Chemica Chemica Chemica Chemica Chemica Chemica Chemica Chemica Chemica Chemica Chemica Chemica Chemica Chemica Chemica Chemica Chemica Chemica Chemica Chemica Chemica Chemica Chemica Chemica Chemica Chemica Chemica Chemica Chemica Chemica Chemica Chemica Chemica Chemica Chemica Chemica Chemica Chemica Chemica Chemica Chemica Chemica Chemica Chemica Chemica Chemica Chemica Chemica Chemica Chemica Chemica Chemica Chemica Chemica Chemica Chemica Chemica Chemica Chemica Chemica Chemica Chemica Chemica Chemica Chemica Chemica Chemica Chemica Chemica Chemica Chemica Chemica Chemica Chemica Chemica Chemica Chemica Chemica Chemica Chemica Chemica Chemica Chemica Chemica Chemica Chemica Chemica Chemica Chemica Chemica Chemica Chemica Chemica Chemica Chemica Chemica Chemica Chemica Chemica Chemica Chemica Chemica Chemica Chemica Chemica Chemica Chemica Chemica Chemica Ch	ACTIVITY all Storage (specify) n wells ned wells nod wells nod wells nod hazardous materials old hazardous wast ion density > 2 hous sewage treatment ater treatment facilit ed for land applications beef farms parms parms pregetables, hay, frui perations	areas s clean-up e ses per he ty ion of was	o site	T.O.T. NOT SPECIFIED	1-YEAR	S-YEAR	10-YEAR	hust	wells	INTS
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Chemica Injection Abandon Landfills Comment Known It Househot Population On-site s Wastewa Sites used Golf cour Dairy or Poultry b Hobby fa Fields: v Mining of Gravel pl	ACTIVITY all Storage (specify) n wells ned wells s, dumps, disposal a relativindustrial sites hazardous materials old hazardous wast on density > 2 hous sewage treatment after treatment facilit ed for land applications arms arms vegetables, hay, frui perations its and identify on map a	areas s clean-up e ses per he ty ion of was	o site	T.O.T. NOT SPECIFIED	1-YEAR	s-YEAR are located	the capture 2	ture zone b	wells	SYSTEMS

W202



Construction Date Well Tag Number 000000041389 Owner: MUNICIPALITY OF WHIS Driller Drillwell Enterprises License Number Address: NEAR NINETEEN MILE CK Area: WELL LOCATION: NEW WESTMINSTER Land District PRODUCTION DATA AT TIME OF DRILLIN District Lot 1756 Lot 351 USGM Well Yield Section Range Township Artesian Flow Indian Reserve Meridian Block Static Level 15 feet Quarter Island Water Utility BCGS Number (NAD 27) 092J016312 Well Lithology Info Flag Y Pump Test Info Flag Y Well Use Unknown Well Use Construction Method Drilled File Info Flag Sieve Info Flag Diameter 10.0 inches Screen Info Flag Well Depth 70.0 feet Water Chemistry Info Flag Y Field Chemistry Info Flag 0 Elevation Bedrock Depth 61 feet Site Info (SEAM) Screen from 32 to 64 feet Other Info Flag Slot Size 2 Slot Size 1 Slot Size 3 Slot Size 4

#### GENERAL REMARKS:

river silt From To 1 Ft. 8 Ft. From coarse gravel 1 To From silty coarse sand and medium gravel 45 Ft. 8 To From To 57 Ft. 45 clay gravel From To 61 Ft. From To 67 Ft. bedrock, soft solid bedrock, drill open From 67 То 70 Ft.

7 rows selected.

W202

Information Disclaimer:

The Province disclaims all responsibility for the accuracy of information provided. Information provided should not be used as a basis for making financial or any other commitments.

Date entered to WELL

#### **Appendix 1.3 Well Assessment Form**

W210

BRITISH Ministry of Health and Ministry of Environ Lands and Parks

Ministry of Environment,

#### WELL ASSESSMENT FORM

TO BE USED WITH THE WELL PROTECTION TOOLKIT.

IMPORTANT! Please complete one form for each ground water source used in your water system. Fill in available information. If missing information, it may be advisable to contact the Ministry of Environment, Lands and Parks' Groundwater Section [(250) 387-1115],

		r who drilled the well, to					<del></del>
WATER SYSTEM LEGAL NAME	niii Wi	ELL SYSTEM INF	LEGAL DESCRIPTION OF V		P 1/		
ALPINE MEADO	w/S	W210	BOLD AL	04140	W/a		
WATER SYSTEM LEGAL ADDRESS	<u> </u>	11210	10010 AII	mrue.	* * *	7	
LATTIUDE / LONGITUDE //	HOW WERE	LOCATION COORDINATES DET	TERMINED?				•
50° 08' 55.5" 122° 57' 37.5"	GPS_	(specify accu	uracy) 🔲 survey 🔲 o	ligitized from 🔟	:20,00	00map	(specify scale,
JTM COORDINATES	HOW MANY O		DOES THE WATER SYSTEM		Α		17
	WELLS MAKE WATER SYST		ALSO USE A SURFACE WATER SOURCE? (describe)	1 Yes.	- Aque	w (re	eK
UMBER OF CONNECTIONS	POPULATION			🗆 .		(specify)	
Actual 750		domestic	Infigation comme		ustrial		
VIN NO. 805		EMS NO.	5	WELL TAG N	° 805	80	
Contact your loca		Environment, Lands and Pa	arks office or local Health to				per for the well.
dentification.		their database.		<u> </u>	Meten		
Bulk supply X yes no	Back-up su	pplyyesno	Emergency supply	yes no		RATOR'S PHONE	
WELL OPERATOR RMOW						932 55	
WELL OPERATOR'S ADDRESS 4325 WELL OWNER	BLAC	KLOMB	WAY				
WELLOWNER WELLOWNER					WELL OWN	ER'S PHONE NO.	
WELL OWNER'S ADDRESS		•			( )	İ	
WELL OWNER'S ADDRESS		·**** · · ·					
PART II:	WELL	CONSTRUCTION	INFORMATION	Refer to	Step 1)		
ELL-DRILLER'S NAME, COMPANY AND ADD	RESS		POSTAL CODE		DATE WELL	ww	MM DD
COLUMBIA WATER	WE	us	! V4W 1	G-Z	ORIGINALLY CONSTRUCT		108 20
25188 - 52nd A	renue	=	WELL-DRILLER'S TELL	EPHONE NO.	<u> </u>	YYYY	MM DD
Aldergrove, BC			1 (1-11)	•	RECONSTRU	CTION _	
<i>•</i>			1001001	7000 B			109/14
PE OF WELL		METHOD OF DRILLING	] as	other		WELL LOG AV	_
driffed aug (specify)	l		drivenjetted	(specify)		yes (atta	oh) [ no
PTH OF WELL 13.2 mov It	DIAMETER OF	~	SCREEN LENGTH	<b></b> 9.	14.3	OP OF SCREEN	- n.
LL CAPACITY	LOCATION	m or in OF WATER-BEARING FRACTIO		<u>"</u>		R-BEARING FRA	
22.1 Us or Igon			and her manifer many.	]		L/s or	lgpm
ELLHEAD ENCLOSURE	1	SURF	ACE SANITARY SEAL	V/A			
7 oth	er ectly)	none groute		t.	no surfs	ce seal 🔲 p	oitless adapter
ERAGE PLIMPING RATE	HOW WAS	PUMPING RATE DETERMINED	?	D	EPTH OF INTA	_	PUMP AGE
L/s or lgpm					m c	жп.	
INUAL VOLUME OF WATER PUMPED L or [gal	HOW WAS	VOLUME PUMPED DETERMINE	ED?				
JMPING CAPACITY	ANY CHAN	GES OR REPAIRS MADE TO TH	IE PUMPING EQUIPMENT? (s	pecify)			
L/s orLgpm	1						
PE OF STORAGE			STORAGE CAP	ACITY		COMMON INLET	
tank(s) reservoir (specify)				_ Lor	Igal	yes	<u> </u>
TACHED INFORMATION Welling are drawings reports	pump tes		ta docum	menting well : eering reports	construction ).	attach any ot (i.e., "as built"	" drawings,
TH 160, page 1 of 4 99/07/06 SeC	report	ent. Hed " Whistles Sec (RMOW R	Test Produc	tion	Well	at site	a C f
brob	osed b	Whistler Sec	ondary School	1". M	celeo	d feo	technic
89/27	1,994	(RMOW) R	PT NO. G	R 48	).		
<u> </u>	1111	1-0 0 0 7	, , , , , , , , , , , , , , , , , , , ,				

	III: HYDROGEOLOGIC INF	
PEPTH TO PUMPING WATER LEVEL	DEPTH TO NON-PUMPING WATER LEVEL	HOW WAS WATER LEVEL MEASURED?
	fl. 5.8 m or fl.	
WELL IS FLOWING, WHAT IS THE ARTE: RESSURE HEAD AND FLOW?	SIAN I HOW IS PRESSURE HEAD AND FLOW MEA	IMPOUNDMENT OR RESERVOIR ASSOCIATED WITH THIS SOURCE
m or	ft.	yes (specify)
ELLHEAD ELEVATION (height above		map /specify scale regrether
645.5 mor	ft. survey altimeter	topographic and contour Interval) (specify)
PE OF CONFINING LAYER FROM WE VG (e.g., clay, till) SILTY SAND	LAYER AT DEPTH	FHOM WELL LOG
1 T T 1 T 1 T 1 T T T T T T T T T T T T	of aquiffer often Mile Creek	AQUIFER CLASSIFICATION NUMBER (from MoELP)  388
(PE OF AQUIFER  unconsolidated, unconsolidated, confined	idated. ARE THERE OTHER HE WELLS, 30 Us OR 500 (agricultural, municipal industrial), LOCATED W HADRUS OF THE COMM	P GALAMIN. 25 765 I and/or How many? 2 12.29 m or
QUIFER TRANSMISSIVITY	HOW WAS TRANSMISSIVITY DETERM	
620 m2/d or	/	om specific capacity other (specify)
TORAULIC GRADIENT ,	HOW WAS MYDRAULIC GRADIENT DE	ETERMINED?
0.018 /1.8%	from well water levels	from topography other (specify)
Sec	Piteau repor	st (Dec. 2003)
HOW LONG HAS THE WATER SYSTE  19 79 IN THIS TIME, HAVE THERE BEEN	EM BEEN IN EXISTENCE?  FYES, WHEN AND WHAT WAS THE CAUSE OF THESE PREVIOUS PROBLEMS (i.e., drought, pump failure,	ATER QUALITY (Refer to Step 1)  2) HAS YOUR WELL EVER BEEN DEEPENED, CLEANED, NEW WELL CONSTRUCTED?  1) 1985 - WHY? 10 DOWL (Spec) to Majarin Yeld (1) 1985
HOW LONG HAS THE WATER SYSTE    9 7 9 IN THIS TIME, HAVE THERE BEEN ANY WATER QUALITY PROBLEMS?    yes	IF YES, WHEN AND WHAT WAS THE CAUSE OF THESE PREVIOUS PROBLEMS (i.e., drought, pump tailure, plugging, increased usage, interference, contamination)?	2 HAS YOUR WELL EVER BEEN DEEPENED, CLEANED, NEW WELL CONSTRUCTED?
HOW LONG HAS THE WATER SYSTE    9 7 9 IN THIS TIME, HAVE THERE BEEN ANY WATER QUALITY PROBLEMS?    yes	FYES, WHEN AND WHAT WAS THE CAUSE OF THESE PREVIOUS PROBLEMS (i.e., drought, pump failure, plugging, increased usage, interference, contamination)? XMAITY CHANGES WERE APPARENT (i.e., taste,	2) HAS YOUR WELL EVER BEEN DEEPENED, CLEANED, NEW WELL CONSTRUCTED?  YOU MAY TO DOUBLE PEU TO MELLARIN YELD IN
HOW LONG HAS THE WATER SYSTE    9 7 9  IN THIS TIME, HAVE THERE BEEN ANY WATER QUALITY PROBLEMS?    yes   no   don't know  CONTAMINATION: - WHAT WATER C	FYES, WHEN AND WHAT WAS THE CAUSE OF THESE PREVIOUS PROBLEMS (i.e., drought, pump failure, plugging, increased usage, interference, contamination)? XMAITY CHANGES WERE APPARENT (i.e., taste,	2) HAS YOUR WELL EVER BEEN DEEPENED, CLEANED, NEW WELL CONSTRUCTED?  YOU MAY TO DOUBLE PEU TO MELLARIN YELD IN
HOW LONG HAS THE WATER SYSTE    9 7 9  IN THIS TIME, HAVE THERE BEEN ANY WATER QUALITY PROBLEMS?    yes	FYES, WHEN AND WHAT WAS THE CAUSE OF THESE PREVIOUS PROBLEMS (i.e., drought, pump failure, plugging, increased usage, interference, contamination)? XUALITY CHANGES WERE APPARENT (i.e., taste, te EFFECTS OF THIS ACTION?	2) HAS YOUR WELL EVER BEEN DEEPENED, CLEANED, NEW WELL CONSTRUCTED?  YOU MAY TO DOUBLE PEU TO MELLARIN YELD IN
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HOW LONG HAS THE WATER SYSTE    9   7   IN THIS TIME, HAVE THERE BEEN ANY WATER QUALITY PROBLEMS?    yes	FYES, WHEN AND WHAT WAS THE CAUSE OF THESE PREVIOUS PROBLEMS (i.e., drought, pump failure, plugging, increased usage, interference, contamination)? ZUALITY CHANGES WERE APPARENT (i.e., taste, de EFFECTS OF THIS ACTION?  BACTERIAL C PAST 3 YEARS DIDS?  BACTERIOLOGICAL STRIBUTION SAMPLES YES NO E?	2) HAS YOUR WELL EVER BEEN DEEPENED, CLEANED, NEW WELL CONSTRUCTED?  YOU YOU TO COUL OPEN TO MELLE IN YELD IN  ONTAMINATION  HAVE THERE BEEN SAMPLING PROTOCOLS OR GARCE  ESTABLISHED?
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#### **Appendix 1.3 Well Assessment Form (continued)**

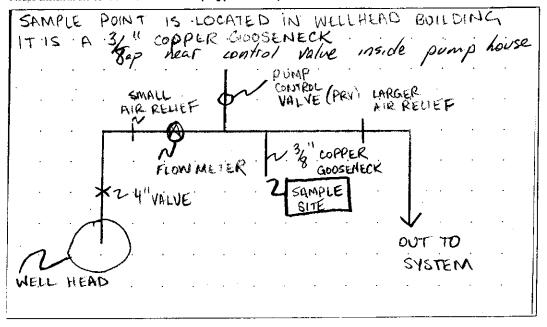
SOURCE-SPECIFIC WATER QUALITY RECORDS (Refer to Step 1)

Please indicate the occurrence of any test results in the last 10 years that meet the following conditions:

PARAMETER	RECURRING PROBLEMS	TEST RESULTS	EXCEEDENCES OF CDWQG 1
Bacteriological Total/Faecal Coliforms Background Heterotrophic plate counts Iron and Sulphate Reducers	NONE		
Disinfection by-products Bromodichloromethane Dibromochloromethane Chlorotorm	NONE		
Physical Parameters pH, clock, alkalinity, specific conductance, hardness, total dissolved solids, total organic carbon, turbidity	NONE	·	
Inorganic Parameters Nitrates, fluoride, sulfate, sulphide, ammonia, chloride, nitrite, nitrogen (organic)	NONE		
Metals* Calcium, iron, magnesium, manganese, sodium	NONE		,

<sup>&</sup>lt;sup>1</sup> Canadian Drinking Water Quality Guidelines, 6th edition

Please sketch in the box below the location sampling point with respect to the well.



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A metal scan is usually performed every 3 years at least, and includes aluminum, arsenic, barium, cadmium, chromium, copper, lead, molybdenum, nickel, phosphorus, silver and zinc.

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STREE PROPER STORAGE   MSS   F STORED IN PRAP HOUSE, HOW ARE OBSTREET   STORED FOR THE CHORNE   MSS   MSS   MSS   MSS   MSS   MSS   MSS   MSS   MSS   MSS   MSS   MSS   MSS   MSS   MSS   MSS   MSS   MSS   MSS   MSS   MSS   MSS   MSS   MSS   MSS   MSS   MSS   MSS   MSS   MSS   MSS   MSS   MSS   MSS   MSS   MSS   MSS   MSS   MSS   MSS   MSS   MSS   MSS   MSS   MSS   MSS   MSS   MSS   MSS   MSS   MSS   MSS   MSS   MSS   MSS   MSS   MSS   MSS   MSS   MSS   MSS   MSS   MSS   MSS   MSS   MSS   MSS   MSS   MSS   MSS   MSS   MSS   MSS   MSS   MSS   MSS   MSS   MSS   MSS   MSS   MSS   MSS   MSS   MSS   MSS   MSS   MSS   MSS   MSS   MSS   MSS   MSS   MSS   MSS   MSS   MSS   MSS   MSS   MSS   MSS   MSS   MSS   MSS   MSS   MSS   MSS   MSS   MSS   MSS   MSS   MSS   MSS   MSS   MSS   MSS   MSS   MSS   MSS   MSS   MSS   MSS   MSS   MSS   MSS   MSS   MSS   MSS   MSS   MSS   MSS   MSS   MSS   MSS   MSS   MSS   MSS   MSS   MSS   MSS   MSS   MSS   MSS   MSS   MSS   MSS   MSS   MSS   MSS   MSS   MSS   MSS   MSS   MSS   MSS   MSS   MSS   MSS   MSS   MSS   MSS   MSS   MSS   MSS   MSS   MSS   MSS   MSS   MSS   MSS   MSS   MSS   MSS   MSS   MSS   MSS   MSS   MSS   MSS   MSS   MSS   MSS   MSS   MSS   MSS   MSS   MSS   MSS   MSS   MSS   MSS   MSS   MSS   MSS   MSS   MSS   MSS   MSS   MSS   MSS   MSS   MSS   MSS   MSS   MSS   MSS   MSS   MSS   MSS   MSS   MSS   MSS   MSS   MSS   MSS   MSS   MSS   MSS   MSS   MSS   MSS   MSS   MSS   MSS   MSS   MSS   MSS   MSS   MSS   MSS   MSS   MSS   MSS   MSS   MSS   MSS   MSS   MSS   MSS   MSS   MSS   MSS   MSS   MSS   MSS   MSS   MSS   MSS   MSS   MSS   MSS   MSS   MSS   MSS   MSS   MSS   MSS   MSS   MSS   MSS   MSS   MSS   MSS   MSS   MSS   MSS   MSS   MSS   MSS   MSS   MSS   MSS   MSS   MSS   MSS   MSS   MSS   MSS   MSS   MSS   MSS   MSS   MSS   MSS   MSS   MSS   MSS   MSS   MSS   MSS   MSS   MSS   MSS   MSS   MSS   MSS   MSS   MSS   MSS   MSS   MSS   MSS   MSS   MSS   MSS   MSS   MSS   MSS   MSS   MSS   MSS   MSS   MSS   MSS   MSS   MSS   MSS   MSS   MSS   MSS   MSS   MSS   MSS   MSS   MSS   MSS	IS THIS SOURCE TREATED? I IF YES, TYPE OF TREATMENT			
Yes   Yes   Go   Gelekocken   Revelon   Cerbon files   water softener   Tiggeody)		C 1		
FOUND RESIDENCE   Total Choine   Pres Chloride   Pres Chlori		air stripper	water sof	
FOUND RESIDENCE   Total Choine   Pres Chloride   Pres Chlori	PURPOSE OF TREATMENT			
IS THERE ANY WATER STORAGE IN THE SYSTEM?    STHERE ANY WATER STORAGE IN THE SYSTEM?				
STHERE ARY WATER STORAGE IN THE SYSTEM   Wes   no	IF SOURCE IS CHECKWIN ED.	WHAT IS THE	RESIDUAL LEVE	L OF TREATMENT?
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WHERE ARE CHEMICALS ARE USED IN THIS PROCESS? (specify)  STHERE PROPORER STORAGE  TO THESE CHEMICALS ARE USED IN THIS PROCESS? (specify)  PART VI: MAPPING THE CAPTURE ZONE TO YOUR COMMUNITY WELL (Refer to Step 2)  A map (1:5000 to 1:20,000 are typical scales) will be needed to complete this section.  Multiple wells in the same area can be plotted on one map.  CROULAR CAPTURE ZONE (refer to Appendix 2.1)  STANDARD FOR Travel time):  PARABOLIC CAPTURE ZONE (refer to Appendix 2.2):  PART VII: SOURCE SURVEY (Refer to Step 3)  PART VII: SOURCE SURVEY (Refer to Step 3)  PART VII: SOURCE SURVEY (Refer to Step 3)  PART VII: SOURCE SURVEY (Refer to Step 3)  PART VIII: SOURCE SURVEY (Refer to Step	FREE CHLORINE IN THE   Drive	THE SOURCE	DDED AFTER E (rechlorination)?	ppm ppm
IS THERE PROPER STORAGE		WHERE ARE	CHEMICALS STO	RED?
IS THERE PROCESTORAGE  PART VI: MAPPING THE CAPTURE ZONE TO YOUR COMMUNITY WELL (Refer to Step 2)  A map (1:5000 to 1:20,000 are typical scales) will be needed to complete this section.  Multiple wells in the same are acn be plotted on one map.  CIRCULAR CAPTURE ZONE (refer to Appendix 2:1)  attach calculation sheets  Albitrary Fixed Radius  (1-year travel time)*  PART VII: SOURCE SURVEY (Refer to Step 3)  A resonant service of resk to ground water  Please Indicate it any of the following potential sources of contamination within the capture zone.  CIRCULAR CAPTURE ZONE (refer to Appendix 2:1)  PART VII: SOURCE SURVEY (Refer to Step 3)  A resonant service time)*  PART VII: SOURCE SURVEY (Refer to Step 3)  A resonant service time)*  Commercial/industrial sites  Known hazardous materials clean-up site  Household hazardous materials clean-up site  Household hazardous waste  Popultation density >2 houses per hectare  Con-site sewage treatment  Sites used for land application of waste  Colf course  Dairy or beef farms  Poultry barns  Hobby farms  Fields: vegetables, hay, fruit (specify)				
PART VI: MAPPING THE CAPTURE ZONE TO YOUR COMMUNITY WELL [Refer to Step 2]  A map (1:5000 to 1:20,000 are typical scales) will be needed to complete this section.  Multiple wells in the same area can be plotted on one map.  CRCULAR CAPTURE ZONE (refer to Appendix 2:1)  Arbitrary Fixed Radius  See Pitcau  The same area for a section of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the s	IS THERE PROPER STORAGE YES IF STORED IN PUMP HOUSE, HOW ARE	CHEMICALS ISOLAT	ED FROM THE WI	ELL7
A map (1:5000 to 1:20,000 are typical scales) will be needed to complete this section.  Multiple wells in the same area can be plotted on one map.  CRCULAR CAPTURE ZONE (refer to Appendix 2:1)  *attach calculation sheets   RADIUS (m)  Arbitrary Fixed Radius   See Pitaus    By \$\frac{9}{200} \text{ (1-year travel time)* } \text{ Vepor } \  (5-year travel time)*   \text{ Dec. } 200 3 \text{ To the series active time)* } \text{ Intervitor of the following potential sources of contamination within the capture zone. } \text{ See Pitaus } \text{ To ground water } \  PART VII: SOURCE SURVEY (Refer to Step 3)  REGIONAL SOURCES OF RISK TO GROUND WATER Please indicate it any of the following potential sources of contamination within the capture zone. } \text{ SU N 20 2} \text{ To ACTIVITY } \text{ I.O.T. NOT SPECIFIED } \text{ 1-YEAR S-YEAR 10-YEAR COMMENTS} \text{ COMMENTS } \text{ Commercial/Industrial sites } \text{ Known hazardous waste } \text{ Population density > 2 houses per hectare } \text{ Cold course Doing tarms } \text{ To be of farms } \text{ Population density > 2 houses per hectare } \text{ Cold course Doing tarms } \text{ Fields: vegetables, hay, fruit (specify) } \text{ To Step (specify) } \text{ To Step (specify) } \text{ To Step (specify) } \text{ To Step (specify) } \text{ To Step (specify) } \text{ To Step (specify) } \text{ To Step (specify) } \text{ To Step (specify) } \text{ To Step (specify) } \text{ To Step (specify) } \text{ To Step (specify) } \text{ To Step (specify) } \text{ To Step (specify) } \text{ To Step (specify) } \text{ To Step (specify) } \text{ To Step (specify) } \text{ To Step (specify) } \text{ To Step (specify) } \text{ To Step (specify) } \text{ To Step (specify) } \text{ To Step (specify) } \text{ To Step (specify) } \text{ To Step (specify) } \text{ To Step (specify) } \text{ To Step (specify) } \text{ To Step (specify) } \text{ To Step (specify) } \text{ To Step (specify) } \text{ To Step (specify) } \text{ To Step (specify) } \text{ To Step (specify) }  To St	FOR THESE CHEMICALS? no			
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Multiple wells in the same area can be priced on the map.  CIRCULAR CAPTURE ZONE (refer to Appendix 2:1)  *attach calculation sheets RADIUS (m) Arbitrary Fixed Radius  See Pitcau  (5-year travel time)*  PART VII: SOURCE SURVEY (Refer to Step 3)  Arbitrary Fixed Radius  PART VII: SOURCE SURVEY (Refer to Step 3)  REGIONAL SOURCES OF RISK TO GROUND WATER  Please Indicate if any of the following potential sources of contamination within the capture zone.  ACTIVITY  Chemical Storage (specify)  Injection wells  Activity and step sheet area  Commercial/industrial sites  Known hazardous materials clean-up site  Household hazardous materials clean-up site  Household hazardous materials clean-up site  Household hazardous materials clean-up site  Household hazardous materials clean-up site  Household hazardous materials clean-up site  Household hazardous materials clean-up site  Household hazardous materials clean-up site  Household hazardous materials clean-up site  Household hazardous materials clean-up site  Household hazardous materials clean-up site  Household hazardous materials clean-up site  Household hazardous materials clean-up site  Household hazardous materials clean-up site  Household hazardous materials clean-up site  Household hazardous materials clean-up site  Household hazardous materials clean-up site  Household hazardous materials clean-up site  Household hazardous materials clean-up site  Household hazardous materials clean-up site  Household hazardous materials clean-up site  Household hazardous materials clean-up site  Household hazardous materials clean-up site  Household hazardous materials clean-up site  Household hazardous materials clean-up site  Household hazardous materials clean-up site  Household hazardous materials clean-up site  Household hazardous materials clean-up site  Household hazardous materials clean-up site  Household hazardous materials clean-up site  Household hazardous materials clean-up site  Household hazardous materials clean-up site  Household hazardous materials clean-up s	A (4-5000 to 4:00 000 are highest engles) will be neede	d to complete	this section	1.
* attach calculation sheets   RADIUS (m)	Multiple wells in the same area can be plotted on one map	•		
Abbrary Fixed Radius    See				· Width of
State a river, size, point, sources of travel time)*   Vepor +	D. I.	distance		III Capitule zone
Commercial/Industrial sites   Commercial/Industrial sites   Commercial/Industrial sites   Commercial/Industrial sites   Commercial/Industrial sites   Commercial/Industrial sites   Commercial/Industrial sites   Commercial/Industrial sites   Commercial/Industrial sites   Commercial/Industrial sites   Commercial/Industrial sites   Commercial/Industrial sites   Commercial/Industrial sites   Commercial/Industrial sites   Commercial/Industrial sites   Commercial/Industrial sites   Commercial/Industrial sites   Commercial/Industrial sites   Commercial/Industrial sites   Commercial/Industrial sites   Commercial/Industrial sites   Commercial/Industrial sites   Commercial/Industrial sites   Commercial/Industrial sites   Commercial/Industrial sites   Commercial/Industrial sites   Commercial/Industrial sites   Commercial/Industrial sites   Commercial/Industrial sites   Commercial/Industrial sites   Commercial/Industrial sites   Commercial/Industrial sites   Commercial/Industrial sites   Commercial/Industrial sites   Commercial/Industrial sites   Commercial/Industrial sites   Commercial/Industrial sites   Commercial/Industrial sites   Commercial/Industrial sites   Commercial/Industrial sites   Commercial/Industrial sites   Commercial/Industrial sites   Commercial/Industrial sites   Commercial/Industrial sites   Commercial/Industrial sites   Commercial/Industrial sites   Commercial/Industrial sites   Commercial/Industrial sites   Commercial/Industrial sites   Commercial/Industrial sites   Commercial/Industrial sites   Commercial/Industrial sites   Commercial/Industrial sites   Commercial/Industrial sites   Commercial/Industrial sites   Commercial/Industrial sites   Commercial/Industrial sites   Commercial/Industrial sites   Commercial/Industrial sites   Commercial/Industrial sites   Commercial/Industrial sites   Commercial/Industrial/Industrial/Industrial/Industrial/Industrial/Industrial/Industrial/Industrial/Industrial/Industrial/Industrial/Industrial/Industrial/Industrial/Industrial/Industrial/Industrial/Industrial/Indus	40 14 14 14 14 14 14 14	surface wa	ter body within th	va κ-monπitame αι uarves — I
PART VII: SOURCE SURVEY {Refer to Step 3}    REGIONAL SOURCES OF RISK TO GROUND WATER   Please Indicate it any of the following potential sources of contamination within the capture zone. SUL WZDZ	1 s (1-year travel time) Ve por 1	boundary?		
PART VII: SOURCE SURVEY (Refer to Step 3)  REGIONAL SOURCES OF RISK TO GROUND WATER  Please indicate if any of the following potential sources of contamination within the capture zone.  ACTIVITY  TOT. NOT  SPECIFIED  ACTIVITY  Chemical Storage (specify)  Injection wells  Landfills, dumps, disposal areas  Commercial/inclustrial sites  Known hazardous materials clean-up site  Household hazardous waste  Population density > 2 houses per hectare  On-site sewage treatment  Wastewater treatment lacility  Sites used for land application of waste  Golf course  Dairy or beef farms  Poultry barns  Hobby farms  Fields: vegetables, hay, fruit (specify)	3 (5-year travel time)* Qec, 2003	irealment t	DRIEDICAL TO ANNOUS	pond located within the
ACTIVITY E.O.T. NOT SPECIFIED 1-YEAR S-YEAR 10-YEAR COMMENTS  Chemical Storage (specify) Injection wells Abandoned wells Landfills, dumps, disposal areas Commercial/industrial sites Known hazardous waste Population density > 2 houses per hectaire Considerative sewage treatment Wastewater treatment facility Sites used for land application of waste Golf course Dairy or beef farms Poultry barns Fields: vegetables, hay, fruit (specify)	ទីដី (10-year travel time)*	6-month tin	ne of travel boun	dary?
ACTIVITY E.O.T. NOT SPECIFIED 1-YEAR S-YEAR 10-YEAR COMMENTS  Chemical Storage (specify) Injection wells Abandoned wells Landfills, dumps, disposal areas Commercial/industrial sites Known hazardous waste Population density > 2 houses per hectaire Considerative sewage treatment Wastewater treatment facility Sites used for land application of waste Golf course Dairy or beef farms Poultry barns Fields: vegetables, hay, fruit (specify)	PART VII: SOURCE	SURVEY (R	efer to \$1	tep 3)
Please Indicate it any of the following potential sources of contamination within the capture zone.  ACTIVITY T.O.T. NOT SPECIFIED 1-YEAR S-YEAR 10-YEAR COMMENTS  Chemical Storage (specify) Injection wells Abandoned wells Landfills, dumps, disposal areas  Commercial/industrial sites  Known hazardous materials clean-up site Household hazardous waste  Population density > 2 houses per hectare  On-site sewage treatment  Wastewater treatment facility  Sites used for land application of waste  Golf course  Dairy or beef farms  Poultry barns  Hobby farms  Fields: vegetables, hay, fruit (specify)	A REGIONAL SOURCES OF RISK TO GROUND WATER			14/7.53
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Abandoned wells  Landfills, dumps, disposal areas  Commercial/industrial sites  Known hazardous materials clean-up site  Household hazardous waste  Population density > 2 houses per hectare  On-site sewage treatment  Wastewater treatment facility  Sites used for land application of waste  Golf course  Dairy or beef farms  Poultry barms  Hobby farms  Fields: vegetables, hay, fruit (specify)				
Landfills, dumps, disposal areas  Commercial/industrial sites  Known hazardous materials clean-up site  Household hazardous waste  Population density > 2 houses per hectare  On-site sewage treatment  Wastewater treatment facility  Sites used for land application of waste  Golf course  Dairy or beef farms  Poultry barms  Hobby farms  Fields: vegetables, hay, fruit (specify)			1	test wells
Commercial/industrial sites  Known hazardous materials clean-up site  Household hazardous waste  Population density > 2 houses per hectare  On-site sewage treatment  Wastewater treatment facility  Sites used for land application of waste  Golf course  Dairy or beef farms  Poultry barns  Hobby farms  Fields: vegetables, hay, fruit (specify)				
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Population density > 2 houses per hectare  On-site sewage treatment  Wastewater treatment facility  Sites used for land application of waste  Golf course  Dairy or beef farms  Poultry barns  Hobby farms  Fields: vegetables, hay, fruit (specify)			<u> </u>	
On-site sewage treatment  Wastewater treatment facility  Sites used for land application of waste  Golf course  Dairy or beef farms  Poultry barns  Hobby farms  Fields: vegetables, hay, fruit (specify)				
Wastewater treatment facility  Sites used for land application of waste  Golf course  Dairy or beef farms  Poultry barns  Hobby farms  Fields: vegetables, hay, fruit (specify)			T	
Sites used for land application of waste  Golf course  Dairy or beef farms  Poultry barns  Hobby farms  Fields: vegetables, hay, fruit (specify)		<u> </u>	1	
Golf course  Dairy or beef farms  Poultry barns  Hobby farms  Fields: vegetables, hay, fruit (specify)				
Dairy or beef farms Poultry barns Hobby farms Fields: vegetables, hay, fruit (specify)				
Poultry barns Hobby farms Fields: vegetables, hay, fruit (specify)		_		
Hobby farms Fields: vegetables, hay, fruit (specify)				
Fields: vegetables, hay, fruit (specify)		·	<del>                                     </del>	
		<del></del>	1	
I POWER LEADING I I I I I I I I I I I I I I I I I I			1	
			1	
Gravel pits	· · · · · · · · · · · · · · · · · · ·		al waithle the se	nture zone boundary
** Mark and identify on map any of the potential sources listed above which are located within the capture zone boundary.	** Mark and identify on map any of the potential sources listed above	which are locate	O WITHIN THE CO	piore zone comment.
SEPTIC FIELD SETBACK  GRADIENT TO SEPTIC FIELD  DENSITY OF ON-SITE SEWAGE DISPOSAL SYSTEMS  SYSTEM PER LOT  SYSTEM PER LOT		ıme grade COMM		
	m or ft%%			

DRILLHOLE NO. TEST WELL- SITE C EQUIPMENT CABLE TOOL DRILL - B.E. 22W LOCATION SCHOOL ACCESS ROAD, ACROSS HWY. 99 FROM ALPINE WAY GROUND ELEVATION 645.5 m t (GEODETIC) F Σ CON-DESCRIPTION STRUCTION REMARKS ORGANICS (topsoil) and coarse SAND. Coarse SAND and fine to coarse GRAVEL. 10-— Static water level 12.5 ft. T. Silty SAND and angular GRAVEL with (24 August 1994) broken ROCK to 4-in. size. Well test 400 USgpm for 47 hours Specific capacity 16 USgpm per toot of drawdown. 20 \_\_\_\_ Hole drilled and cased 8-inch dia. 30 -10 Angular SAND and GRAVEL with broken ROCK, some SILT. -46' -47' SILT with angular GRAVEL Wire wound stainless steel screen 15 -length 15 feet, 0.150-in. slot. 50-Angular SAND and GRAVEL with broken ROCK, trace SILT. Screen assembly length 23'2" including 7-ft, bottom sump and top neoprene packer. 60 -62 Clayey SILT and broken ROCK with seams of angular SAND. -69'1" depth to sump bottom 70 — Total depth 76 feet drilled WEST VANCOUVER B.C. SCHOOL DISTRICT NO. 48 MACLEOD GEOTECHNICAL LTD. LOG OF DRILLHOLE Q69 HWR 26 AUG 94 Q69-G202 WHISTLER SECONDARY SCHOOL ÓF TEST WELL

#### **Appendix 1.3 Well Assessment Form**

W213

₩(	BRITISH COLUMBIA
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Ministry of Health and Ministry of Environment, Ministry Responsible for Seniors Lands and Parks

#### **WELL ASSESSMENT FORM**

TO BE USED WITH THE WELL PROTECTION TOOLKIT.

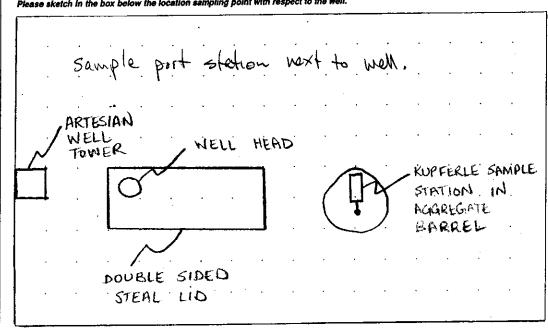
IMPORTANT! Please complete one form for each ground water source used in your water system. Fili in available information. If missing information, it may be advisable to contact the Ministry of Environment, Lands and Parks' Groundwater Section [(250) 387-1115], or the local driller who drilled the well, to assist. Photocopy this form as necessary.

241	T. WELL OVETEN ME	ORMATION (Refer to Ste	n 1)
	RT I: WELL SYSTEM INFO	LEGAL DESCRIPTION OF WELL LOCATION	
WATER SYSTEM LEGAL NAME	DOWS W213	BITO CAMINO	~ ~
ALPINE MEAL	MA2 MA2	D170 CAMILIAG	
WATER SYSTEM LEGAL ADDRESS			
LATITUDE / LONGITUDE,	HOW WERE LOCATION COORDINATES DETE	RMMED?	
50°8'37.7"/122°57'33.1"	GPS(specify accum	acy) survey digitized from	1 4000 map (specify scale)
UTM COORDINATES	WELLS MAKE UP THE	DOES THE WATER SYSTEM ALSO USE A SURFACE WATER SOURCE? (describe)	- Agnew Creek
NUMBER OF CONNECTIONS	POPULATION SERVED WATER USE		other (specify)
Maximum Actual <u>750</u>	domestic []	Irrigation commercial ind	ustrial
WIN NO.	EMS NO.	WELL TAG N	
	UNKNO		<u>80581</u>
Contact your local WIN NO. = MoELP's metal tag affixed to the we identification.	Ministry of Environment, Lands and Parl Ill for on-site   EMS NO. = MoELP's site numb their database.	ks office or local Health Unit for the foli er for the water chemistry on BC WELL TAG	owing information:  a NO. = MoELP's computer number for the wall.
Bulk supply  yes  no	Back-up supply yes no	Emergency supply yes no	Metered Yes no
WELL OPERATOR RMDW			WELL OPERATOR'S PHONE NO. (604) 932 5535
WELL OPERATOR'S ADDRESS			
慧 4325 BLI	ACKCOMB WAY	, WHISTLER	
WELL OPERATOR'S ADDRESS  4325 BLI WELL OWNER			WELL OWNER'S PHONE NO.
52			
WELL OWNER'S ADDRESS			
	WELL CONSTRUCTION		
VELL-DRILLER'S NAME, COMPANY AND ADDR	ESS WED IS (1981).	POSTAL CODE	ORIGINALLY
	,	14W 162	CONSTRUCTED 1999 10 106
25188-52nd Av	enve	WELL-DRILLER'S TELEPHONE NO.	DATE OF LAST YYYY MM DD
Aldergrove, BC		(604)857 0008	RECONSTRUCTION 2003
		1	WELL LOG AVAILABLE?
TYPE OF WELL	METHOD OF DRILLING  rotary Cable	driven letted ather	yes (attach) no
(Specify)		SCREEN LENGTH	DEPTH TO TOP OF SCREEN
DEPTH OF WELL  46. 7 mor tt.	mor S in.	4.5 mor te	42.1 morn
WELL CAPACITY	LOCATION OF WATER-BEARING FRACTION		(IELD OF WATER-BEARING FRACTION(S)
10 0	ECCATION OF WATER DEPARTMENT OF THE	dol for some ways	L/s or Igpm
WELLHEAD ENCLOSURE /	SURFAC	DE SANITARY SEAL	
pump house manhole other		to 24.0 m or t.	no surface seal pittess adapter
AVERAGE PUMPING RATE	HOW WAS PUMPING RATE DETERMINED?		EPTH OF INTAKE SETTING PUMP AGE
L/s or lgpm		<u> </u> -	m or #.
ANNUAL VOLUME OF WATER PUMPED	HOW WAS VOLUME PUMPED DETERMINED	)7	
LorIgal			
PUMPING CAPACITY	ANY CHANGES OR REPAIRS MADE TO THE	PUMPING EQUIPMENT? (specify)	
L/s or lgpm	**		
TYPE OF STORAGE	<u> </u>	STORAGE CAPACITY	COMMON INLET OR OUTLET?
tank(s) reservoir (specify)		Lor	Igal yes no
ATTACHED INFORMATION  Well log drawings reports	pump test data water quality data	documenting well	ilable, please attach any other records construction (i.e., "as built" drawings,
		engineering reports	7
LTH 160, page 1 of 4 99/07/06			

* artisian	71001	LOCIC INFO	RMATION	(Refer to Steps	: 1 and 2)	
	DEPTH TO NON-PUMP	PING WATER LEVEL	HOW WAS WATER	LEVEL MEASURED?		7
DEPTH TO PUMPING WATER LEVEL.	DEPTH TO NON-POWE	"	well log	wetted tape prof		
	HOW IS PRESSURE H		URED? (specify)	IF SOURCE IS A FLOWING	WELL OR SPRING, IS THERE A STORAGE RVOIR ASSOCIATED WITH THIS SOURCE?	
RESSURE HEAD AND FLOW?	_			yes (specify)	× × × × × × × × × × × × × × × × × × ×	ю
m or tt.	3845	S ELEVATION DETERM	INIED?	<u> </u>		
VELLHEAD ELEVATION (height above mean	n sea level) HOW WA		topographic	map (specify scale and contour interval)	(specify)	-
05 mor	<u>- "                                     </u>		THICKINESS OF	T F	IOW LATERALLY EXTENSIVE IS CONFININ	3
OG (e.g., day, till)	LOCATION OF CONFIN	^ .1	CONFINING LAYER FROM WELL LOG	1 <u>43 morft.</u>	AYER?	
S YOUR WELL ASSOCIATED NAME OF AC	FROM WELL LOG			AQUIFER CLASSIFICATIO NUMBER (from MoELP)	N AQUIFER CLASSIFICATION (from MoELP)	1
WITH A KNOWN AQUIFER?		11LE CK		388	TB (12)	)
		RE THERE OTHER HIG	H-CAPACITY (T	✓ yes _	ANNUAL FLAMFALL	
TYPE OF AQUIFER		VELLS, 30 L/s OR 500 C	BALAMIN. 44 Bodior He	ow many? 2	1229	
unconsolidated, unconsolidate confined	o, bedrock (	dustrial), LOCATED WI LADIUS OF THE COMM		no	[ZV] mor	n.
QUIFER TRANSMISSIVITY	HOW WAS TRAI	NSMISSIVITY DETERM	NED?			1
·-:	~~~	umping test [] from		other (specify)		$\dashv$
HYDRAULIC GRADIENT	HOW WAS HYD	RAULIC GRADIENT DE		alber (enaciful		
. 1.0	from	rell water levels	from topography	other (specify)	ARE OF THE CAPTURE ZONE FOR THIS	$\dashv$
PLEASE IDENTIFY OR DESCRIBE ADDITION SOURCE, WHERE POSSIBLE, REFERENCE	IAL HYDROLOGIC OR	GEOGRAPHIC CONDIT ON THE MAP PRODUC	ions that you be Ed in part iv.	TIEVE MAY AFFECT THE SIX	A COLUMN TO THE COLUMN TO THE COLUMN TO THE COLUMN TO THE COLUMN TO THE COLUMN TO THE COLUMN TO THE COLUMN TO THE COLUMN TO THE COLUMN TO THE COLUMN TO THE COLUMN TO THE COLUMN TO THE COLUMN TO THE COLUMN TO THE COLUMN TO THE COLUMN TO THE COLUMN TO THE COLUMN TO THE COLUMN TO THE COLUMN TO THE COLUMN TO THE COLUMN TO THE COLUMN TO THE COLUMN TO THE COLUMN TO THE COLUMN TO THE COLUMN TO THE COLUMN TO THE COLUMN TO THE COLUMN TO THE COLUMN TO THE COLUMN TO THE COLUMN TO THE COLUMN TO THE COLUMN TO THE COLUMN TO THE COLUMN TO THE COLUMN TO THE COLUMN TO THE COLUMN TO THE COLUMN TO THE COLUMN TO THE COLUMN TO THE COLUMN TO THE COLUMN TO THE COLUMN TO THE COLUMN TO THE COLUMN TO THE COLUMN TO THE COLUMN TO THE COLUMN TO THE COLUMN TO THE COLUMN TO THE COLUMN TO THE COLUMN TO THE COLUMN TO THE COLUMN TO THE COLUMN TO THE COLUMN TO THE COLUMN TO THE COLUMN TO THE COLUMN TO THE COLUMN TO THE COLUMN TO THE COLUMN TO THE COLUMN TO THE COLUMN TO THE COLUMN TO THE COLUMN TO THE COLUMN TO THE COLUMN TO THE COLUMN TO THE COLUMN TO THE COLUMN TO THE COLUMN TO THE COLUMN TO THE COLUMN TO THE COLUMN TO THE COLUMN TO THE COLUMN TO THE COLUMN TO THE COLUMN TO THE COLUMN TO THE COLUMN TO THE COLUMN TO THE COLUMN TO THE COLUMN TO THE COLUMN TO THE COLUMN TO THE COLUMN TO THE COLUMN TO THE COLUMN TO THE COLUMN TO THE COLUMN TO THE COLUMN TO THE COLUMN TO THE COLUMN TO THE COLUMN TO THE COLUMN TO THE COLUMN TO THE COLUMN TO THE COLUMN TO THE COLUMN TO THE COLUMN TO THE COLUMN TO THE COLUMN TO THE COLUMN TO THE COLUMN TO THE COLUMN TO THE COLUMN TO THE COLUMN TO THE COLUMN TO THE COLUMN TO THE COLUMN TO THE COLUMN TO THE COLUMN TO THE COLUMN TO THE COLUMN TO THE COLUMN TO THE COLUMN TO THE COLUMN TO THE COLUMN TO THE COLUMN TO THE COLUMN TO THE COLUMN TO THE COLUMN TO THE COLUMN TO THE COLUMN TO THE COLUMN TO THE COLUMN TO THE COLUMN TO THE COLUMN TO THE COLUMN TO THE COLUMN TO THE COLUMN TO THE COLUMN TO THE COLUMN TO THE COLUMN TO THE COLUMN TO THE COLUMN TO THE COLUMN TO THE COLUMN TO THE COLUMN TO THE COLUMN TO THE COLUMN TO THE	
CONDE MILITE PERSONNEL						
PART	IV: ASSESS	MENT OF W	ATER QUA	LITY (Refer to 5	Step 1)	
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## Appendix 1.3 Well Assessment Form (continued)

PARAMETER	RECURRING PROBLEMS	TEST RESULTS	EXCEEDENCES OF CDWQG 1
Bacterlological Total/Faecal Coliforms Background Heterotrophic plate counts Iron and Sulphate Reducers	NONE		
Disinfection by-products Bromodichloromethane Dibromochloromethane Chloroform	NONE		
Physical Parameters pH, colour, alkalinity, specific conductance, hardness, total dissolved solids, total organic carbon, turbidity	NONE		
norganic Parameters Nitrates, fluoride, sulfate, sulphide, ammonia, chloride, ultrite, nitrogen (organic)	NONE		
Wetals* Calcium, iron, magnesium, nanganese, sodium	NONE		, 20 <b>2</b> .



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			ATMENT	INFORM	AIIUN (H	ole: to	Otop i	,	
	S, TYPE OF TREAT		carbon filter	alr stripper	waters	oftener [	other (specify)		
PURPOSE OF TREATMENT		)					(specify)		
FURFUSE OF IREAIMERI									
IF SOURCE IS CHLORINATED, I	Total Chlorine	Free	Chlorine	WHAT IS THE	RESIDUAL LEV	EL OF TREA	TMENT?		
IS A CHLORINE RESIDUAL   MAINTAINED?	pr	pan	ррт	1					
IS THERE ANY WATER STORAGE IN T	HE SYSTEM?	X yes	☐ no		A TREATMENT E	BEFORE OR	AFTER	before	e after
WHAT IS THE TOTAL AND	Total Chlorine		Chlorine	THE STORAG	Y ADDITIONAL	l To	stal Chlorine		Free Chlorine
FREE CHLORINE IN THE DISTRIBUTION SYSTEM?		pim	ppm		DOED AFTER E (rechlorination	1		ppm _	
WHAT TYPE OF CHEMICALS ARE USE	D IN THIS PROCE	SS? (specify)			CHEMICALS ST			h=	,
S THERE PROPER STORAGE	IF STORED	IN PUMP HOUSE,	HOW ARE CHE	MICALS ISOLAT	ED FROM THE V	VELL?			
OR THESE CHEMICALS?									
PART VI: MAPP							ELL (Re	fer to	Step 2)
A map (1:5000 to 1:20,000 Multiple wells in the same	are typical s	scales) will b plotted on c	e needed ( one map.	o complete	this section	n.			
CIRCULAR CAPTUR		<i>-</i>		P/	ARABOLIC C	APTURE Z	ONE (refer	to Appen	d(x 2.2)*
*attach calculation sheets		RADIUS (m)	· ·	Downgradien	t	m	Width of capture zo		m
Arbitrary Fixed Radius	see Plaa	) report	Dec.	distance	har lake acad		<del> </del>		(identify on map)
		145	2003	surface wat	iver, lake, pond, Ier body within I	the 6-month	pure of trave	, Hues	(scientify on map)
(1-year travel time)* (5-year travel time)* (10-year travel time)*		325		boundary?		·	ne facility		Sd-wife on mont
(10-year travel time)*		<del></del>		treatment la	tormwater and/ agoon or holding se of travel bour	g pond łocat	ed within the		(identify on map)
이 년 (10-year travel time)*		460		6-moner on	HE OI DEVEL DOOR	tual y t		L	
• • •	0401	r vii: soi	JRCE SU	RVEY (R	efer to S	tep 3)			
REGIONAL SOURCES OF RISK TO	GROUND WATER		of contembri	tion within i	lha cantura i	M44			
4	GROUND WATER	ntial sources o	••		T	one.			
4	GROUND WATER		of contamina	tion within i	the capture 1	zone.	co	MMENTS	
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Please Indicate If any of the fo	GROUND WATER	tial sources o	••		T				
Please Indicate If any of the for ACTIVITY  Chemical Storage (specify)	GROUND WATER	tial sources o	••		T	tes		MMENTS	}
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Please Indicate If any of the for ACTIVITY  Chemical Storage (specify) Injection wells Abandoned wells Landfills, dumps, disposal area Commercial/industrial sites Known hazardous materials cle Household hazardous waste Population density > 2 houses   On-site sewage treatment Wastewater treatment facility Sites used for land application of Golf course Dairy or beef farms	sacund water policy poter starting poter starting poter starting poter starting poter starting poter starting poter starting poter starting poter starting poter starting poter starting poter starting poter starting poter starting poter starting poter starting poter starting poter starting poter starting poter starting poter starting poter starting poter starting poter starting poter starting poter starting poter starting poter starting poter starting poter starting poter starting poter starting poter starting poter starting poter starting poter starting poter starting poter starting poter starting poter starting poter starting poter starting poter starting poter starting poter starting poter starting poter starting poter starting poter starting poter starting poter starting poter starting poter starting poter starting poter starting poter starting poter starting poter starting poter starting poter starting poter starting poter starting poter starting poter starting poter starting poter starting poter starting poter starting poter starting poter starting poter starting poter starting poter starting poter starting poter starting poter starting poter starting poter starting poter starting poter starting poter starting poter starting poter starting poter starting poter starting poter starting poter starting poter starting poter starting poter starting poter starting poter starting poter starting poter starting poter starting poter starting poter starting poter starting poter starting poter starting poter starting poter starting poter starting poter starting poter starting poter starting poter starting poter starting poter starting poter starting poter starting poter starting poter starting poter starting poter starting poter starting poter starting poter starting poter starting poter starting poter starting poter starting poter starting poter starting poter starting poter starting poter starting poter starting poter starting poter starting poter starting poter starting poter starting poter starting poter starting p	T.O.T. NOT SPECIFIED	1-YEAR	5-YEAR	vithin the ca	Vi'e L	daus I	Vorth	1

W213

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PROJECT:	North Whistler Groundwater Eva	luation	CASING S	этіскир:	0.6 m	(2 ft)	WELL NO: TW1-99
PHCL PRO	DJECT NO: R711106		STATIC WATER LEVEL: Flowing			Flowing	PUMPING TEST: 11/26/99
LOCATION	i: Meadow Park Recreation Centr	е	COMPLE	TION DEI	PTH: 4	6.7 m (153.25 fi	t) WATER ANALYSIS: Yes
Depth	Description			Depth (ft)	Symbol	Well Data	Remarks
0 5 10 10 15 20 20 25 30 30 10 15 55 60 70 110 115 115 110 110 110 110 110 110 11	Ground Surface Sand Fili(?), brown, containing sto Soil, brown, sity, sandy, containing broken stones Clay, grey, thick Silt, grey, packed, containing wood Silt, dark, packed, containing wood Peat and Wood, some grey silt Silt, grey, containing wood and peat Silt, grey, traces of peat and some Silt, darker grey  Silt, darker grey  Silt, prown, firm with seams of brostones; making water Silt, grey, containing seams of sto sand Silt, grey, containing seams of conwood  Silt, grey, containing seams of conwood  Silt, grey, containing seams of conwood  Sand, fine, packed, silty; fairly tight Silt, grey and wood, some fine silt Sand, grey, packed, silty, fine, traces and; tight Gravel, grey, silty, coarse, broken gravel at tight Broken Rock, green and grey browater  Bedrock, solid	g wood, peat  d  d  d  at  avood  own sand and ones and grift  ty sand  ces of grifty  sifty wash gravel and sharp col	d by	-10 -15 -25 -30 -45 -50 -65 -70 -75 -80 -85 -100 -115 -120 -125 -130 -145 -150 -155 -160 -165 -170 -165 -170 -165 -170 -165 -170 -165 -170 -165 -170 -165 -170 -165 -170 -170 -170 -170 -170 -170 -170 -170			200 mm (8") diameter well casing stickup = 0.6 m (2 ft).  Bentonite grout surface seal, placed as 24 m (79 ft) of 250 mm (10") diameter casing recovered.  11/26/99 - natural artesian flow of 60 USgpm (50 igpm; 3.8 lps).  K-type packer and 0.6 m (2 ft) of riser pipe = 42.0 m (137.75 ft).  3.0 m (10 ft) of 3.81 mm (0.150") slot, 200 mm nominal diameter (telescopic) Johnson stainless steel well screen.  Flat steel plate at bottom of welt screen assembly = 46.7 m (153.25 ft).
	CTOR: CWW (1986) Ltd.	DATE: 10	0/06/99			Cor Suite 2	DROLOGY CONSULTANTS LTD.  Insulting Hydrogeologists  201, 1537 West 8th Avenue
PAGE: 1		FIGURE:	3	<del></del>	-		JVER, B.C. Canada V6J 1T5 ephone: (604) 730-6990

FUNCTION JUNCTION W212-

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#### **Appendix 1.3 Well Assessment Form**

BRITISH Ministry of Health and Ministry of Environment, Ministry Responsible for Seniors Lands and Parks

#### **WELL ASSESSMENT FORM**

TO BE USED WITH THE WELL PROTECTION TOOLKIT.

IMPORTANT! Please complete one form for each ground water source used in your water system. Fill in available information.

If missing information, it may be advisable to contact the Ministry of Environment, Lands and Parks' Groundwater Section [(250) 387-1115], or the local driller who drilled the well, to assist. Photocopy this form as necessary.

ATTUDE / LONGITUDE  SD° S / (4"//23°2' / 10")  JTM COORDINATES  JUMBER OF CONNECTIONS  Azximum	Ministry of Environment, Lands and Pa	TERMINED?  JURGOY) SURVEY O  DOES THE WATER SYSTEM ALSO USE A SURFACE WATER SOURCE? (describe)  Irrigation Comment  Arks office or local Health & when for the water chemistry or	igitized from	1005 10001 LE CK other (spi	CYNHI D map (spe BLACK soft))	ccity scale)
NATER SYSTEM LEGAL ADDRESS.  R MOW  ATTUDE / LONGITUDE  SD° S / 14"//23°2' / 10"  JTM COORDINATES  ILAMBER OF CONNECTIONS  Asximum Actual  VIN NO. — MOELP's metal tag affixed to the we lentification.  Bulk supply yes no	HOW WERE LOCATION COORDINATES DET  GPS (specify acct  HOW MANY OTHER  WELLS MAKE UP THE  WATER SYSTEM?  POPULATION SERVED WATER USE  EMS NO.  Ministry of Environment, Lands and Pa  Bill for on-site EMS NO. = MoELP's site num  their database.	TERMINED?  JURGOY) SURVEY O  DOES THE WATER SYSTEM ALSO USE A SURFACE WATER SOURCE? (describe)  Irrigation Comment  Arks office or local Health & when for the water chemistry or	2   M   I   Inclustr  WELL TAG NO.  Init for the following BC WELL TAG NO.	other (special N/A)  Ing information () = MoELP's con	BLACK BLACK  BLACK  BLACK  To:	ccome
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WELL OPERATOR /	Back-up supply yes no	Emergency supply	,	Metered	X yes	] no [
						- 1
WELL OPERATOR'S ADDRESS			[ ]	NELL OPERATO	132 55	
メー オクライ はしかっ		, what	70 60			
WELLOWNER	CKCOMB WAY 5 abone	, WHIS		VELL OWNER'S	PHONE NO.	
WELL OWNER'S ADDRESS	, 4004				· · · · · · · · · · · · · · · · · · ·	
PART II:	WELL CONSTRUCTION	INFORMATION	Refer to S	tep 1)		
ELL DRILLERS NAME, COMPANY AND ADDR FIELD DRILLING BOX 841 25320 FRAS AUDERGROVE, BC	CONTRACTORS	V4W 21 WELL-DRILLER'S TELL (604) 855	EPHONE NO.	ATE WELL RIGINALLY ONSTRUCTED  ATE OF LAST ECONSTRUCTIO	*****	
PE OF WELL	METHOD OF DRILLING	]	other	W	ELL LOG AVAILA yes (attach)	1
Graned Garage (Specify)	DIAMETER OF WELL	driven jetted screen LENGTH	(specify)	EPTH TO TOP O		
EPTH OF WELL  19.8 mor t.	m or 16 in.	9.2 mor_	n	10.6	m or	N.
ELL CAPACITY	LOCATION OF WATER-BEARING FRACTION	ON(S) (for bedrock wells):	AHET	D OF WATER-B		
4 L/s or lgpm		ACE SANITARY SEAL		L/8	or	Igpm
ELLHEAD ENCLOSURE    pump house   manhole   other	PITLESS SURF		n [	no surface s	eal pitle	ss adapter
ERAGE PUMPING RATE	HOW WAS PUMPING RATE DETERMINED	)?	DEP	TH OF INTAKE 8	1	PUMP AGE
L/s or Igpm	nla			m or _	ft.	
HUAL VOLUME OF WATER PUMPED	HOW WAS VOLUME PLIMPED DETERMIN	ED?				-
L or igal	M / C ANY CHANGES OR REPAIRS MADE TO TI	HE PLAMPING EQUIPMENT? (\$	pecify)			
41 Lis or lgpm			•			
PE OF STORAGE	<u> </u>	STORAGE CAR	ACITY		IMON INLET OR	OUTLET?
tank(s) reservoir specify).			Lor	Igal	yes yes	
TACHED INFORMATION  well log drawings reports	pump test data water quality da	docu	well log is availai menting well con neering reports).	ne, please att	acn any omei ., "as built" d	rawings,

	PART III: HYDROGEOLOGIC INFORMATION (Refer to Steps 1 and 2)  DEPTH TO PUMPING WATER LEVEL DEPTH TO NON-PUMPING WATER LEVEL HOW WAS WATER LEVEL MEASURED?
	m or tt. 4.54 m ortt. well log wetted tape probe transducer
	# WELL IS FLOWING, WHAT IS THE ARTESIAN HOW IS PRESSURE HEAD AND FLOW MEASURED? (specify)  # SOURCE IS A FLOWING WELL OR SPRING, IS THERE A STORM MPOUNDMENT OR RESERVOIR ASSOCIATED WITH THIS SOURCE IS A FLOWING WELL OR SPRING, IS THERE A STORM MPOUNDMENT OR RESERVOIR ASSOCIATED WITH THIS SOURCE IS A FLOWING WELL OR SPRING, IS THERE A STORM MPOUNDMENT OR RESERVOIR ASSOCIATED WITH THIS SOURCE IS A FLOWING WELL OR SPRING, IS THERE A STORM MPOUNDMENT OR RESERVOIR ASSOCIATED WITH THIS SOURCE IS A FLOWING WELL OR SPRING, IS THERE A STORM MPOUNDMENT OR RESERVOIR ASSOCIATED WITH THIS SOURCE IS A FLOWING WELL OR SPRING, IS THERE A STORM MPOUNDMENT OR RESERVOIR ASSOCIATED WITH THIS SOURCE IS A FLOWING WELL OR SPRING, IS THERE A STORM MPOUNDMENT OR RESERVOIR ASSOCIATED WITH THIS SOURCE IS A FLOWING WELL OR SPRING, IS THERE A STORM MPOUNDMENT OR RESERVOIR ASSOCIATED WITH THIS SOURCE IS A FLOWING WELL OR SPRING, IS THERE A STORM MPOUNDMENT OR RESERVOIR ASSOCIATED WITH THIS SOURCE IS A FLOWING WELL OR SPRING, IS THERE A STORM MPOUNDMENT OR RESERVOIR ASSOCIATED WITH THIS SOURCE IS A FLOWING WELL OR SPRING, IS THERE A STORM MPOUNDMENT OR RESERVOIR ASSOCIATED WITH THIS SOURCE IS A FLOWING WELL OR SPRING, IS THERE A STORM MPOUNDMENT OR RESERVOIR ASSOCIATED WITH THIS SOURCE IS A FLOWING WELL OR SPRING, IS THERE A STORM MPOUNDMENT OR RESERVOIR ASSOCIATED WITH THE A STORM MPOUNDMENT OR RESERVOIR ASSOCIATED WITH THE ASSOCIATED WITH THE ASSOCIATED WITH THE ASSOCIATED WITH THE ASSOCIATED WITH THE ASSOCIATED WITH THE ASSOCIATED WITH THE ASSOCIATED WITH THE ASSOCIATED WITH THE ASSOCIATED WITH THE ASSOCIATED WITH THE ASSOCIATED WITH THE ASSOCIATED WITH THE ASSOCIATED WITH THE ASSOCIATED WITH THE ASSOCIATED WITH THE ASSOCIATED WITH THE ASSOCIATED WITH THE ASSOCIATED WITH THE ASSOCIATED WITH THE ASSOCIATED WITH THE ASSOCIATED WITH THE ASSOCIATED WITH THE ASSOCIATED WITH THE ASSOCIATED WITH THE ASSOCIATED WITH THE ASSOCIATED WITH THE ASSOCIATED WITH THE ASSOCIATED WITH THE ASSOCIATED WITH THE ASSOCIATED WITH THE ASSOCIATED WITH THE ASSOCIAT
	WELLHEAD ELEVATION (height above mean sea level) HOW WAS ELEVATION DETERMINED?
L	000 m or
	LOG (e.g., clay, iiii)  LAYER AT DEPTH FROM WELL LOG m or ft CONFINING LAYER FROM WELL LOG m or ft.
	IS YOUR WELL ASSOCIATED NAME OF AQUIFER CLASSIFICATION NUMBER (ITOM MOELP)  WITH A KNOWN AQUIFER?  AQUIFER CLASSIFICATION NUMBER (ITOM MOELP)  TB (12)
1	TYPE OF AQUIFER  ARE THERE OTHER HIGH-CAPACITY  WELLS, 30 L/s OR 500 GALJMIN.  ANNUAL RAINFALL
	unconsolidated, unconsolidated, unconsolidated, unconfined unconfined unconfined unconfined unconfined unconfined unconfined unconfined unconfined unconfined unconfined unconfined unconfined unconfined unconfined unconfined unconfined unconfined unconfined unconfined unconfined unconfined unconfined unconfined unconfined unconfined unconfined unconfined unconfined unconfined unconfined unconfined unconfined unconfined unconfined unconfined unconfined unconfined unconfined unconfined unconfined unconfined unconfined unconfined unconfined unconfined unconfined unconfined unconfined unconfined unconfined unconfined unconfined unconfined unconfined unconfined unconfined unconfined unconfined unconfined unconfined unconfined unconfined unconfined unconfined unconfined unconfined unconfined unconfined unconfined unconfined unconfined unconfined unconfined unconfined unconfined unconfined unconfined unconfined unconfined unconfined unconfined unconfined unconfined unconfined unconfined unconfined unconfined unconfined unconfined unconfined unconfined unconfined unconfined unconfined unconfined unconfined unconfined unconfined unconfined unconfined unconfined unconfined unconfined unconfined unconfined unconfined unconfined unconfined unconfined unconfined unconfined unconfined unconfined unconfined unconfined unconfined unconfined unconfined unconfined unconfined unconfined unconfined unconfined unconfined unconfined unconfined unconfined unconfined unconfined unconfined unconfined unconfined unconfined unconfined unconfined unconfined unconfined unconfined unconfined unconfined unconfined unconfined unconfined unconfined unconfined unconfined unconfined unconfined unconfined unconfined unconfined unconfined unconfined unconfined unconfined unconfined unconfined unconfined unconfined unconfined unconfined unconfined unconfined unconfined unconfined unconfined unconfined unconfined unconfined unconfined unconfined unconfined unconfined unconfined unconfined unconfined unconfined unconfined unconfined unconfined unconfi
	ACUIFER TRANSMISSIVITY    HOW WAS TRANSMISSIVITY DETERMINED?
ı	HYDRAULIC GRADIENT HOW WAS HYDRAULIC GRADIENT DETERMINED?    Irom, well water levels   Irom topography   other (specify)
ŀ	PLEASE IDENTIFY OR DESCRIBE ADDITIONAL HYDROLOGIC OR GEOGRAPHIC CONDITIONS THAT YOU BELIEVE MAY AFFECT THE SHAPE OF THE CAPTURE ZONE FOR THIS
	SOURCE, WHERE POSSIBLE, REFERENCE THEM TO LOCATIONS ON THE MAP PRODUCED IN PART IV.
	1 con 1/2- 1 100- (+ / 100 2003)
	1 SEE (11000 1900) ( DEC. 2003)
	see Piteau report (Dec. 2003)
	SEE MEAU TEPOUT (SEC. 2003)
	SEE MENO TEPOVI (SEC. 2003)
	SEE (1) ENO 1 EPOVI (SEC. 2003)
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	PART IV: ASSESSMENT OF WATER QUALITY (Refer to Step 1)  1 How Long has the water system been in existence? 2 Has your well ever been deepened, cleaned, new well constructe yes — Why?  3 In this time, have there been any water cluality problems? 4 Was the cause of these previous problems (Le, drought, purp failure, plugging, increased usage, plugging, increased usage,
	PART IV: ASSESSMENT OF WATER QUALITY (Refer to Step 1)  1 HOW LONG HAS THE WATER SYSTEM BEEN IN EXISTENCE? 2 HAS YOUR WELL EVER BEEN DEEPENED, CLEANED, NEW WELL CONSTRUCTE 2 HAS YOUR WELL EVER BEEN DEEPENED, CLEANED, NEW WELL CONSTRUCTE 3 IN THIS TIME, HAVE THERE BEEN 4 ANY WATER CUALITY PROBLEMS? 5 PREVIOUS PROBLEMS 6 (Le., drought, pump failure, plugging, increased usage, interference, contamination)?
	PART IV: ASSESSMENT OF WATER QUALITY (Refer to Step 1)  1 How long has the water system been in existence?  2 Has your well ever been deepened, cleaned, new well constructe yes — Why?  3 In this time, have there been was the cause of these previous problems?  Was the cause of these previous problems (i.e., drought, pump failure, plugging, increased usage, plugging, increased usage,
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	PART IV: ASSESSMENT OF WATER QUALITY (Refer to Step 1)  1 HOW LONG HAS THE WATER SYSTEM BEEN IN EXISTENCE?  2 HAS YOUR WELL EVER BEEN DEEPENED, CLEANED, NEW WELL CONSTRUCTE yes — Why?  3 IN THIS TIME, HAVE THERE BEEN WAS THE CAUSE OF THESE PREVIOUS PROBLEMS?  4 HOY WATER QUALITY PROBLEMS?  (Le, drought, pump failure, increased usage, interference, contamination)?  F CONTAMINATION: • WHAT WATER QUALITY CHANGES WERE APPARENT (Le., taste, colour, burblidly, other)? • WHAT ACTION WAS TAKEN TO OVERCOME THIS PROBLEM. • WHAT WERE THE EFFECTS OF THIS ACTION?
	PART IV: ASSESSMENT OF WATER QUALITY (Refer to Step 1)  1 HOW LONG HAS THE WATER SYSTEM BEEN IN EXISTENCE?  2 HAS YOUR WELL EVER BEEN DEEPENED, CLEANED, NEW WELL CONSTRUCTE yes — Why?  3 IN THIS TIME, HAVE THERE BEEN IF YES, WHEN AND WHAT WAS THE CAUSE OF THESE PREVIOUS PROBLEMS?  (i.e., drought, pump failure, phugging, increased usage, interference, contamination)?  IF CONTAMINATION: • WHAT WATER QUALITY CHANGES WERE APPARENT (i.e., taste, colour, burblilly, other)? • WHAT ACTION WAS TAKEN TO OVERCOME THIS PROBLEM • WHAT WERE THE EFFECTS OF THIS ACTION?
	PART IV: ASSESSMENT OF WATER QUALITY (Refer to Step 1)  1 HOW LONG HAS THE WATER SYSTEM BEEN IN EXISTENCE?  2 HAS YOUR WELL EVER BEEN DEEPENED, CLEANED, NEW WELL CONSTRUCTE yes — Why?  3 IN THIS TIME, HAVE THERE BEEN WAS THE CAUSE OF THESE PREVIOUS PROBLEMS (i.e., drought, pump falure, pupplying, increased usage, interference, conjamination)?  F CONTAMINATION: - WHAT WATER QUALITY CHANGES WERE APPARENT (i.e., taste, colour, burbidly, other)? - WHAT ACTION WAS TAKEN TO OVERCOME THIS PROBLEM - WHAT WERE THE EFFECTS OF THIS ACTION?
	PART IV: ASSESSMENT OF WATER QUALITY (Refer to Step 1)  1 HOW LONG HAS THE WATER SYSTEM BEEN IN EXISTENCE?  2 HAS YOUR WELL EVER BEEN DEEPENED, CLEANED, NEW WELL CONSTRUCTE yes — Why?  3 IN THIS TIME, HAVE THERE BEEN WAS THE CAUSE OF THESE PREVIOUS PROBLEMS?  4 WAS THE CAUSE OF THESE PREVIOUS PROBLEMS (Le., drought, pump failure, plugging, increased usage, interference, contamination)?  F CONTAMINATION: • WHAT WATER QUALITY CHANGES WERE APPARENT (Le., taste, colour, burblishy, other)? • WHAT ACTION WAS TAKEN TO OVERCOME THIS PROBLEM.  FL. Mh. 10 EXCLEDIBLE OF AO.
	PART IV: ASSESSMENT OF WATER QUALITY (Refer to Step 1)  1 HOW LONG HAS THE WATER SYSTEM BEEN IN EXISTENCE?  2 HAS YOUR WELL EVER BEEN DEEPENED, CLEANED, NEW WELL CONSTRUCTE yes — Why?  3 IN THIS TIME, HAVE THERE BEEN IF YES, WHEN AND WHAT WAS THE CAUSE OF THESE PREVIOUS PROBLEMS?  (i.e., drought, pump failure, phugging, increased usage, interference, contamination)?  IF CONTAMINATION: • WHAT WATER QUALITY CHANGES WERE APPARENT (i.e., taste, colour, burblilly, other)? • WHAT ACTION WAS TAKEN TO OVERCOME THIS PROBLEM • WHAT WERE THE EFFECTS OF THIS ACTION?
	PART IV: ASSESSMENT OF WATER QUALITY (Refer to Step 1)  1 HOW LONG HAS THE WATER SYSTEM BEEN IN EXISTENCE?  2 HAS YOUR WELL EVER BEEN DEEPENED, CLEANED, NEW WELL CONSTRUCTE yes — Why?  3 IN THIS TIME, HAVE THERE BEEN AND WHAT WAS THE CAUSE OF THESE PREVIOUS PROBLEMS?  I HE CAUSE OF THESE PREVIOUS PROBLEMS?  I HE CAUSE OF THESE PREVIOUS PROBLEMS (I.e., drough, jump failure, plugging, increased usage, interference, confamination)?  F CONTAMINATION: - WHAT WATER QUALITY CHANGES WERE APPARENT (I.e., taste, colour, burbdity, other)? - WHAT ACTION WAS TAKEN TO OVERCOME THIS PROBLEM - WHAT WERE THE EFFECTS OF THIS ACTION?  FL. Mh I L EXCLEDENCE OF AO MAC (ONC DECLUTENCE).
	PART IV: ASSESSMENT OF WATER QUALITY (Refer to Step 1)  1 HOW LONG HAS THE WATER SYSTEM BEEN IN EXISTENCE?  2 HAS YOUR WELL EVER BEEN DEEPENED, CLEANED, NEW WELL CONSTRUCTE
	PART IV: ASSESSMENT OF WATER QUALITY (Refer to Step 1)  1 HOW LONG HAS THE WATER SYSTEM BEEN IN EXISTENCE?  2 HAS YOUR WELL EVER BEEN DEEPENED, CLEANED, NEW WELL CONSTRUCTE
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	PART IV: ASSESSMENT OF WATER QUALITY (Refer to Step 1)    HOW LONG HAS THE WATER SYSTEM BEEN IN EXISTENCE?   2   HAS YOUR WELL EVER BEEN DEEPENED, CLEANED, NEW WELL CONSTRUCTE   yea — Why?
	PART IV: ASSESSMENT OF WATER QUALITY (Refer to Step 1)    HOW LONG HAS THE WATER SYSTEM BEEN IN EXISTENCE?   2   HAS YOUR WELL EVER BEEN DEEPENED, CLEANED, NEW WELL CONSTRUCTE   yes — Why?
	PART IV: ASSESSMENT OF WATER QUALITY (Refer to Step 1)    HOW LONG HAS THE WATER SYSTEM BEEN IN EXISTENCE?   2   HAS YOUR WELL EYER BEEN DEEPEND, CLEANED, NEW WELL CONSTRUCTE
	PART IV: ASSESSMENT OF WATER QUALITY (Refer to Step 1)    HOW LONG HAS THE WATER SYSTEM BEEN IN EXISTENCE?   2   HAS YOUR WELL EVER BEEN DEEPEND, CLEANED, NEW WELL CONSTRUCTE

## **Appendix 1.3 Well Assessment Form (continued)**

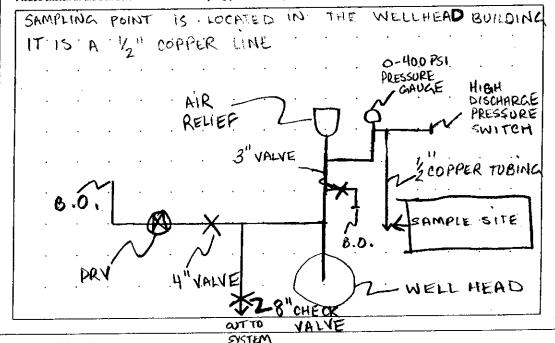
SOURCE-SPECIFIC WATER QUALITY RECORDS [Refer to Step 1]

Please indicate the occurrence of any test results in the last 10 years that meet the following conditions:

PARAMETER	RECURRING PROBLEMS	TEST RESULTS	EXCEEDENCES OF CDWQG 1
Bacteriological Total/Faecal Coliforms Background Heterotrophic plate counts Iron and Sulphate Reducers	NONE		
Disinfection by-products Bromodichloromethane Dibromochloromethane Chloroform	NONE		
Physical Parameters pH, colour, alkalinity, specific conductance, hardness, total dissolved solids, total organic carbon, turbidity	NONE	1.09 NTU	turbidity in excess May 102
Inorganic Parameters Nitrates, fluoride, sulfate, sulphide, ammonia, chloride, nitrite, nitrogen (organic)	NONE		
Metale* Calcium, iron, magnesium, manganese, sodium	elevated fe, Mn	0.445 - 2.76	March 2002 A1 > MAC FC > AO Mn > AO

<sup>1</sup> Canadian Drinking Water Quality Guidelines, 6th edition

Please sketch in the box below the location sampling point with respect to the well.



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<sup>\*</sup>A metal scan is usualty performed every 3 years at least, and includes aluminum, arsenic, barium, cadmium, chromium, copper, lead, molybdenum, nickel, phosphorus, silver and zinc.

## Appendix 1.3 Well Assessment Form (continued)

PART V: WA	TER TRE	ATMENT	NFORM	ATION (R	efer to Step 1)
IS THIS SOURCE TREATED?   IF YES, TYPE OF TREAT		carbon filter	air stripper	water ed	other other
yes no Solskilection	HER BUCH	CSEDON INCO	an entither		(specify)
disinfuction of	·				supply.
IF SOURCE IS CHLORINATED, Total Chlorine IS A CHLORINE RESIDUAL   MAINTAINED?	4.7	Chlorine 5	WHAT IS THE	RESIDUAL LEVE	EL OF TREATMENT?
IS THERE ANY WATER STORAGE IN THE SYSTEM?	X yes [	no	IS THE WATER		EFORE OR AFTER before after
WHAT IS THE TOTAL AND Total Chlorine FREE CHLORINE IN THE DISTRIBUTION SYSTEM? PF	Free	Chlorine	IS THERE AN	Y ADDITIONAL	Total Chlorine Free Chlorine
WHAT TYPE OF CHEMICALS ARE USED IN THIS PROCES	SS? (specify)			CHEMICALS STO	
IS THERE PROPER STORAGE   Yes   IF STORED   FOR THESE CHEMICALS?   100   2	IN PUMP HOUSE SEF				IN6 >
PART VI: MAPPING THE	APTURE	ZONE TO	YOUR	COMMUN	ITY WELL (Refer to Step 2)
A man (1:5000 to 1:20,000 are typical s	cales) will L	e needed to			
Multiple wells in the same area can be CIRCULAR CAPTURE ZONE (refer			PA	RABOLIC CA	PTURE ZONE (refer to Appendix 2.2)*
	RADIUS (m)	. 1)	Downgradien		Width of
	Hrav	<u>.                                    </u>	distance		m cepture zone m
(1-year travel time)* (10-year travel time)*	-		is there a ri surface wat boundary?	ver, lake, pond, er body within t	stream or other obvious yes (identify on map) he 6-month time of trave! no
(5-year travel time)*	ec.	2003	is there a s	tormwater and/o	or wastewater facility, yes (identify on map)
(10-year travel time)*			6-month tim	goon or holding te of travel bour	pond located within the no no
PAR	r VII: SO	URCE SU	RVEY (R	efer to S	tep 3)
REGIONAL SOURCES OF RISK TO GROUND WATER					
Please indicate if any of the following pole:	ıtial sources	of contamina	tion within i	ne capiure z	one.
				T	T
ACTIVITY	T.O.T. NOT SPECIFIED	1-YEAR	5-YEAR	10-YEAR	COMMENTS
	T.O.T. NOT			T	T
ACTIVITY	T.O.T. NOT			T	Mustrial Activities
ACTIVITY Chemical Storage (specify)	T.O.T. NOT			T	COMMENTS
ACTIVITY Chemical Storage (specify) Injection wells	T.O.T. NOT			T	Mustrial Activities
ACTIVITY  Chemical Storage (specify)  Injection wells  Abandoned wells	T.O.T. NOT			T	Mustrial Activities
ACTIVITY  Chemical Storage (specify) Injection wells  Abandoned wells  Landfills, dumps, disposal areas	T.O.T. NOT			T	Mustrial Activities
ACTIVITY  Chemical Storage (specify) Injection wells  Abandoned wells  Landfills, dumps, disposal areas  Commercial/industrial sites	T.O.T. NOT			T	Mustrial Activities
ACTIVITY  Chemical Storage (specify) Injection wells  Abandoned wells  Landfills, dumps, disposal areas  Commercial/industrial sites  Known hazardous materials clean-up site	T.O.T. NOT			T	Mustrial Activities
ACTIVITY  Chemical Storage (specify) Injection wells Abandoned wells Landfills, dumps, disposal areas Commercial/industrial sites Known hazardous materials clean-up site Household hazardous waste	T.O.T. NOT			T	Mustrial Activities
ACTIVITY  Chemical Storage (specify) Injection wells Abandoned wells Landfills, dumps, disposal areas  Commercial/industrial sites  Known hazardous materials clean-up site Household hazardous waste  Population density > 2 houses per hectare	T.O.T. NOT			T	Mustrial Activities
ACTIVITY  Chemical Storage (specify) Injection wells Abandoned wells Landfills, dumps, disposal areas  Commercial/industrial sites Known hazardous materials clean-up site Household hazardous waste Population density > 2 houses per hectare On-site sewage treatment	T.O.T. NOT			T	rdustrial tetrities  First wells
ACTIVITY  Chemical Storage (specify) Injection wells Abandoned wells Landfills, dumps, disposal areas  Commercial/industrial sites  Known hazardous materials clean-up site Household hazardous waste  Population density > 2 houses per hectare  On-site sewage treatment  Wastewater treatment facility	T.O.T. NOT			T	rdustrial tetrities  First wells
ACTIVITY  Chemical Storage (specify) Injection wells  Abandoned wells  Landfills, dumps, disposal areas  Commercial/industrial sites  Known hazardous materials clean-up site  Household hazardous waste  Population density > 2 houses per hectare  On-site sewage treatment  Wastewater treatment facility  Sites used for land application of waste	T.O.T. NOT			T	rdustrial tetrities  First wells
ACTIVITY  Chemical Storage (specify) Injection wells  Abandoned wells  Landfills, dumps, disposal areas  Commerciat/industrial sites  Known hazardous materials clean-up site  Household hazardous waste  Population density > 2 houses per hectare  On-site sewage treatment  Wastewater treatment facility  Sites used for land application of waste  Golf course	T.O.T. NOT			T	rdustrial tetrities  First wells
ACTIVITY  Chemical Storage (specify) Injection wells Abandoned wells Landfills, dumps, disposal areas  Commercial/industrial sites  Known hazardous materials clean-up site Household hazardous waste  Population density > 2 houses per hectare  On-site sewage treatment  Wastewater treatment facility  Sites used for land application of waste  Golf course  Dairy or beef farms	T.O.T. NOT			T	rdustrial tetrities  First wells
ACTIVITY  Chemical Storage (specify) Injection wells Abandoned wells Landfills, dumps, disposal areas Commercial/industrial sites Known hazardous materials clean-up site Household hazardous waste Population density > 2 houses per hectare On-site sewage treatment Wastewater treatment facility Sites used for land application of waste Golf course Dairy or beef farms Poultry barns Hobby farms	T.O.T. NOT			T	rdustrial tetrities  First wells
ACTIVITY  Chemical Storage (specify) Injection wells  Abandoned wells  Landfills, dumps, disposal areas  Commercial/industrial sites  Known hazardous materials clean-up site  Household hazardous waste  Population density > 2 houses per hectare  On-site sewage treatment  Wastewater treatment facility  Sites used for land application of waste  Golf course  Dairy or beef farms  Poultry barns  Hobby farms  Fields: vegetables, hay, fruit (specify)	T.O.T. NOT			T	rdustrial tetrities  First wells
ACTIVITY  Chemical Storage (specify) Injection wells  Abandoned wells  Landfills, dumps, disposal areas  Commercial/industrial sites  Known hazardous materials clean-up site  Household hazardous waste  Population density > 2 houses per hectare  On-site sewage treatment  Wastewater treatment facility  Sites used for land application of waste  Golf course  Dairy or beef farms  Poultry barns  Hobby farms  Fields: vegetables, hay, fruit (specify)  Mining operations	T.O.T. NOT			T	rdustrial tetrities  First wells
ACTIVITY  Chemical Storage (specify) Injection wells Abandoned wells Landfills, dumps, disposal areas  Commercial/industrial sites  Known hazardous materials clean-up site Household hazardous waste Population density > 2 houses per hectare On-site sewage treatment Wastewater treatment facility  Sites used for land application of waste Golf course Dairy or beef farms Poultry barns	TOT. NOT SPECIFIED	1-YEAR	5-YEAR	10-YEAR	rest wells  possibly (not sure)
ACTIVITY  Chemical Storage (specify) Injection wells  Abandoned wells  Landfills, dumps, disposal areas  Commerciat/industrial sites  Known hazardous materials clean-up site  Household hazardous waste  Population density > 2 houses per hectare  On-site sewage treatment  Wastewater treatment facility  Sites used for land application of waste  Golf course  Dairy or beef farms  Poultry barns  Hobby farms  Fields: vegetables, hay, fruit (specify)  Mining operations  Gravel pits	TO.T. NOT SPECIFIED	1-YEAR	s-YEAR	within the ca	rest wells  possibly (not sure)
ACTIVITY  Chemical Storage (specify) Injection wells Abandoned wells Landfills, dumps, disposal areas  Commercial/industrial sites  Known hazardous materials clean-up site Household hazardous waste Population density > 2 houses per hectare On-site sewage treatment Wastewater treatment facility  Sites used for land application of waste Golf course Dairy or beef farms Poultry barns Hobby farms Fields: vegetables, hay, fruit (specify) Mining operations Gravel pits  Mark and identify on map any of the potentia	T.O.T. NOT SPECIFIED	1-YEAR	s-YEAR	within the cap	possibly (not sure)

WELL PROTECTION TOOLKIT - STEP ONE

#### INTRAWEST CORPORATION -SPRING CREEK PRODUCTION WELL NO. 3-00

Location: RMoW's Re-Use-It Centre, directly northwest of the intersection of Highway 99 and Alpha Lake Road, in the Function Junction area of South Whistler.

Contractor: Field Drilling Contractors Ltd.

Date of Installation: October 2000.

#### Driller's Litholog:

0.0 - 2.7 m ( 0	- 9 ft)	sand containing gravel and wood
2.7 - 5.8 m ( 9		brown, fine to medium, sand, trace of gravel
5.8 - 8.5 m ( 19		gravel, very coarse, very dense (compact)
8.5 - 8.8 m ( 28	- 29 ft)	coarse sand, with gravel up to 50 mm (2"); water- bearing, very red wash
8.8 - 11.6 m ( 29	- 38 ft)	very coarse gravel up to small boulders, with less than 10% under 13 mm (½"); too coarse to drive and bail but looser than above 8.8 m
11.6 - 12.8 m ( 38	- 42 ft)	brown, very loose, very coarse sand
12.8 - 13.4 m ( 42		fine to medium sand to very coarse gravel too large to bail
13.4 - 16.8 m ( 44	- 55 ft)	medium to coarse sand, trace of 25 to 50 mm (1 to 2") gravel
16.8 - 18.6 m ( 55	- 61 ft)	brown, fine to medium sand containing silt layers
18.6 - 18.9 m ( 61		very sandy silt
18.9 - 19.8 m ( 62		compact silt, trace of sand (drilled open hole).

Static water level: 4.54 m (14.90 ft), referenced to ground, on November 2, 2000, below a datum of 0.67 m (2.2 ft) above ground, prior to the start of test pumping.

Diameter: 400 mm (16"), with a wall thickness of 9.52 mm (0.375") and stickup of 0.6 m (2 ft), 4.1 m (13.6 ft) of 500 mm (20") diameter surface casing recovered during placement of a surface seal of bentonite grout.

Completion: Spring Creek Production Well No. 3-00 (PW No. 3-00) is completed with a 9.2 m (30' 3") long well screen assembly set from 10.6 to 19.8 m (34.75 to 65 ft). The assembly contains 350 mm (14") pipe-size diameter Johnson stainless steel well screen, with an i.d. of 333 mm (131/6") and o.d. of 356 mm (14"), and blank pipe, as follows:

at top at 10.6 m (34.75 ft)	400 to 350 mm (16 to 14") reducing K-type packer and 0.3 m (1 ft) long riser pipe ("O" wind), 0.5 m (1.5 ft) long
0.6 m (2 ft) of	6.35 mm (0.250") slot screen
1,2 m (4 ft) of	2.03 mm (0.080") slot screen
2.1 m (6.9 ft) of	356 mm (14") diameter pipe from 12.9 to 15.0 m (42.2 to 49.2 ft)
1.5 m (5 ft) of	1.27 man (0.050°) slot screen
1.8 m (6 ft) of	0.51 mm (0.020") slot screen
1.5 m (4.8 ft) of	356 mm (14") diameter pipe
at bottom at 19.8 m (65 ft)	flat steel plate.
Measurements are below grou	nd at the time of well completion.

WZ12-1

#### ONE STEP

#### **Appendix 1.3 Well Assessment Form**

FUNCTION JUNCTION W212-2



Ministry of Health and Ministry of Environment, Ministry Responsible for Seniors Lands and Parks

#### **WELL ASSESSMENT FORM**

TO BE USED WITH THE WELL PROTECTION TOOLKIT.

IMPORTANT! Please complete one form for each ground water source used in your water system. Fill in available information.

If missing information, it may be advisable to contact the Ministry of Environment, Lands and Parks' Groundwater Section [(250) 387-1115],

or the local driller who drilled the well, to assist, Photocopy this form as necessary

	IT I: WELL SYSTEM				p 1)				
WATER SYSTEM LEGAL NAME		_	ESCRIPTION OF WE	ELL LOCATION					
FUNCTION JUNC	JION WLIZ-	7							
WATER SYSTEM LEGAL ADDRESS.									
RMOW'S re-us	seit centre	و							
1	HOW WERE LOCATION COORDINATE	S DETERMINED?	/	•	1.100	nn.			
50° 5' 14.10"/123° 2' 10.2"	GPS(special	fy accuracy)	survey 🗸 dig	gitized from	1-100	map (sp	ecify scale)		
UTM COORDINATES'	HOW MANY OTHER		WATER SYSTEM						
	WELLS MAKE UP THE WATER SYSTEM?		A SURFACE DURCE? (describe)						
	POPULATION SERVED   WATER US	E			· oth	er (specify)			
Maximum Actual	domes	stic Irrigatio	n commerc	alal Indi	ustrial				
WIN NO.	EMS NO.	,		WELL TAG N					
NIA	N	12			80	269			
	Ministry of Environment, Lands a	nd Parks office o	or local Health Ur	it for the follo					
WIN NO. = MoELP's metal tag affixed to the wel		te number for the w	vater chemistry on	BC WELL TAG	NO. = MoEL	P's computer number	for the well.		
Identification.	their database.				<del></del>				
Bulk supply yes no	Back-up supply yes	no Emergeno	cy supply ye	es no	Mete	ered yes [	] no		
WELL OPERATOR					WELL OPE	ERATOR'S PHONE NO	)		
E RMOW					(604	1932 553	35		
Fi z WELL OPERATOR'S ADDRESS					L				
\$ 4325 BLAC	KCOMB WA	ч,	WHIST	NEK					
WELL OWNER				· · · · ·	WELL OW	NER'S PHONE NO.			
WELL OWNER'S ADDRESS WELL OWNER'S ADDRESS WELL OWNER AS	KCOMB WA abone	•			(	)	•		
WELL OWNER'S ADDRESS					L				
×									
DADT III		PART II: WELL CONSTRUCTION INFORMATION (Refer to Step 1)							
	WELL COMSTRUCT	ion infor	MATION !	defer to	Sten 1	}			
11911 POULTON 11111C ACTION 10 10 10 10 10 10 10 10 10 10 10 10 10	***	Lpoe	MATION (	Refer to			AM DD		
11911 POULTON 11111C ACTION 10 10 10 10 10 10 10 10 10 10 10 10 10	***	Lpoe	TAL CODE	_	DATE WELL	L YYYY A	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,		
WELL-DRILLER'S NAME, COMPANY AND ADDRESS COLUMBIA WATER	WELLS (1986	,) ·   POS	TAL CODE 14W 16	-2	DATE WELL	L YYYY A	M DD		
WELL-DRILLER'S NAME, COMPANY AND ADDRE COLUMBIA WATER 25188 - 52nd Av	WELLS (1986	,) ·   POS	TAL CODE	-2	DATE WELL	CTED 1999	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,		
WELL-DRILLER'S NAME, COMPANY AND ADDRESS COLUMBIA WATER	WELLS (1986	POS WELL	TAL CODE 14W 16	- Z PHONE NO.	DATE WELL ORIGINALL CONSTRUC	L YYYY A CTED   999   AST YYYY A	11/16		
WELL-DRILLER'S NAME, COMPANY AND ADDREC COLUMBIA WATER 25188 - 52nd Av Aldergrove, BC	wells (1986 venul	POS L WELL	TAL CODE 14W 16 L-DRILLER'S TELEF	- Z PHONE NO.	DATE WELL ORIGINALL CONSTRUCT	L YYYY M LY CTED 1999 AST RUCTION	// //6 MM DD		
WELL-DRILLER'S NAME, COMPANY AND ADDRE COLUMBIA WATER 25188 - 57md An Aldergrove, BC	METHOD OF DRILLING	POS WELL	TAL CODE  14 W 16  1-DRILLER'S TELEF  604) 857	- Z PHOŅE NO. — 1 0008	DATE WELL ORIGINALL CONSTRUCT	L YYYY M LY CTED   QQQ   AST YYYY M LUCTION	MM DD		
WELL-DRILLER'S NAME, COMPANY AND ADDRE COLUMBIA WATER 25188 - 57md AN Aldergrove, BC TYPE OF WELL Souther (specify)	METHOD OF DRILLING    Method of Drilling   cabi	POS WELL	TAL CODE  14 W   6  1-DRILLER'S TELEF  604) 857	- Z PHONE NO. T	DATE WELL ORIGINALL CONSTRUC DATE OF L RECONSTR	L YYYY M Y CTED	MM DD		
WELL-DRILLER'S NAME, COMPANY AND ADDRE COLUMBIA WATER 15188 - 57md Av Aldergrove, BC  TYPE OF WELL  Milled dug other (specify)  DEPTH OF WELL	METHOD OF DRILLING  METHOD OF DRILLING  TOTALY Cabl  TOTAL  TOTAL  TOTAL  TOTAL  TOTAL  TOTAL  TOTAL  TOTAL  TOTAL  TOTAL  TOTAL  TOTAL  TOTAL  TOTAL  TOTAL  TOTAL  TOTAL  TOTAL  TOTAL  TOTAL  TOTAL  TOTAL  TOTAL  TOTAL  TOTAL  TOTAL  TOTAL  TOTAL  TOTAL  TOTAL  TOTAL  TOTAL  TOTAL  TOTAL  TOTAL  TOTAL  TOTAL  TOTAL  TOTAL  TOTAL  TOTAL  TOTAL  TOTAL  TOTAL  TOTAL  TOTAL  TOTAL  TOTAL  TOTAL  TOTAL  TOTAL  TOTAL  TOTAL  TOTAL  TOTAL  TOTAL  TOTAL  TOTAL  TOTAL  TOTAL  TOTAL  TOTAL  TOTAL  TOTAL  TOTAL  TOTAL  TOTAL  TOTAL  TOTAL  TOTAL  TOTAL  TOTAL  TOTAL  TOTAL  TOTAL  TOTAL  TOTAL  TOTAL  TOTAL  TOTAL  TOTAL  TOTAL  TOTAL  TOTAL  TOTAL  TOTAL  TOTAL  TOTAL  TOTAL  TOTAL  TOTAL  TOTAL  TOTAL  TOTAL  TOTAL  TOTAL  TOTAL  TOTAL  TOTAL  TOTAL  TOTAL  TOTAL  TOTAL  TOTAL  TOTAL  TOTAL  TOTAL  TOTAL  TOTAL  TOTAL  TOTAL  TOTAL  TOTAL  TOTAL  TOTAL  TOTAL  TOTAL  TOTAL  TOTAL  TOTAL  TOTAL  TOTAL  TOTAL  TOTAL  TOTAL  TOTAL  TOTAL  TOTAL  TOTAL  TOTAL  TOTAL  TOTAL  TOTAL  TOTAL  TOTAL  TOTAL  TOTAL  TOTAL  TOTAL  TOTAL  TOTAL  TOTAL  TOTAL  TOTAL  TOTAL  TOTAL  TOTAL  TOTAL  TOTAL  TOTAL  TOTAL  TOTAL  TOTAL  TOTAL  TOTAL  TOTAL  TOTAL  TOTAL  TOTAL  TOTAL  TOTAL  TOTAL  TOTAL  TOTAL  TOTAL  TOTAL  TOTAL  TOTAL  TOTAL  TOTAL  TOTAL  TOTAL  TOTAL  TOTAL  TOTAL  TOTAL  TOTAL  TOTAL  TOTAL  TOTAL  TOTAL  TOTAL  TOTAL  TOTAL  TOTAL  TOTAL  TOTAL  TOTAL  TOTAL  TOTAL  TOTAL  TOTAL  TOTAL  TOTAL  TOTAL  TOTAL  TOTAL  TOTAL  TOTAL  TOTAL  TOTAL  TOTAL  TOTAL  TOTAL  TOTAL  TOTAL  TOTAL  TOTAL  TOTAL  TOTAL  TOTAL  TOTAL  TOTAL  TOTAL  TOTAL  TOTAL  TOTAL  TOTAL  TOTAL  TOTAL  TOTAL  TOTAL  TOTAL  TOTAL  TOTAL  TOTAL  TOTAL  TOTAL  TOTAL  TOTAL  TOTAL  TOTAL  TOTAL  TOTAL  TOTAL  TOTAL  TOTAL  TOTAL  TOTAL  TOTAL  TOTAL  TOTAL  TOTAL  TOTAL  TOTAL  TOTAL  TOTAL  TOTAL  TOTAL  TOTAL  TOTAL  TOTAL  TOTAL  TOTAL  TOTAL  TOTAL  TOTAL  TOTAL  TOTAL  TOTAL  TOTAL  TOTAL  TOTAL  TOTAL  TOTAL  TOTAL  TOTAL  TOTAL  TOTAL  TOTAL  TOTAL  TOTAL  TOTAL  TOTAL  TOTAL  TOTAL  TOTAL  TOTAL  TOTAL  TOTAL  TOTAL  TOTAL  TOTAL  TOTAL  TOTAL	POS WELL	TAL CODE  14-W 16  1-DRILLER'S TELEF  604) 857    jetted   jetted   jetted   jetted   jetted   jetted   jetted   jetted   jetted   jetted   jetted   jetted   jetted   jetted   jetted   jetted   jetted   jetted   jetted   jetted   jetted   jetted   jetted   jetted   jetted   jetted   jetted   jetted   jetted   jetted   jetted   jetted   jetted   jetted   jetted   jetted   jetted   jetted   jetted   jetted   jetted   jetted   jetted   jetted   jetted   jetted   jetted   jetted   jetted   jetted   jetted   jetted   jetted   jetted   jetted   jetted   jetted   jetted   jetted   jetted   jetted   jetted   jetted   jetted   jetted   jetted   jetted   jetted   jetted   jetted   jetted   jetted   jetted   jetted   jetted   jetted   jetted   jetted   jetted   jetted   jetted   jetted   jetted   jetted   jetted   jetted   jetted   jetted   jetted   jetted   jetted   jetted   jetted   jetted   jetted   jetted   jetted   jetted   jetted   jetted   jetted   jetted   jetted   jetted   jetted   jetted   jetted   jetted   jetted   jetted   jetted   jetted   jetted   jetted   jetted   jetted   jetted   jetted   jetted   jetted   jetted   jetted   jetted   jetted   jetted   jetted   jetted   jetted   jetted   jetted   jetted   jetted   jetted   jetted   jetted   jetted   jetted   jetted   jetted   jetted   jetted   jetted   jetted   jetted   jetted   jetted   jetted   jetted   jetted   jetted   jetted   jetted   jetted   jetted   jetted   jetted   jetted   jetted   jetted   jetted   jetted   jetted   jetted   jetted   jetted   jetted   jetted   jetted   jetted   jetted   jetted   jetted   jetted   jetted   jetted   jetted   jetted   jetted   jetted   jetted   jetted   jetted   jetted   jetted   jetted   jetted   jetted   jetted   jetted   jetted   jetted   jetted   jetted   jetted   jetted   jetted   jetted   jetted   jetted   jetted   jetted   jetted   jetted   jetted   jetted   jetted   jetted   jetted   jetted   jetted   jetted   jetted   jetted   jetted   jetted   jetted   jetted   jetted   jetted   jetted   jetted   jetted	- Z PHONE NO. 1 0008 Other (specify)	DATE WELL ORIGINALL CONSTRUCT DATE OF L RECONSTR	AST YYYY A AST HUCTION  WELL LOG AVAIL  Wes (attach)  TOP OF SCREEN	MM DD		
WELL-DRILLER'S NAME, COMPANY AND ADDRE COLUMBIA WATER 25188 - 57nd AN Alderg VOVE, BC  TYPE OF WELL Sold drilled dug other (specify)  DEPTH OF WELL MOT 61.0 ft.	METHOD OF DRILLING  METHOD OF DRILLING  TOTALY  MARTER OF WELL  M or \$\infty\$	POS WELL (()	TAL CODE  14-W 16  L-DRILLER'S TELEF  004) 85-7  L	PHONE NO.  ODO 8  other (specify)  tt.	DATE WELL ORIGINALL CONSTRUCT DATE OF L RECONSTRUCT DEPTH TO	AST YYYY MARKETED   GQQ    AST YYYY MARKETION    WELLLOG AVAIL    Wes (attach)  TOP OF SCREEN    M or	ABLE? no		
WELL-DRILLER'S NAME, COMPANY AND ADDRE COLUMBIA WATER 25188 - 52nd Av Aldergrove, BC  TYPE OF WELL Melled dug other (specify)  DEPTH OF WELL m or 61.0 ft.  WELL CAPACITY	METHOD OF DRILLING  METHOD OF DRILLING  TOTALY Cabl  TOTAL  TOTAL  TOTAL  TOTAL  TOTAL  TOTAL  TOTAL  TOTAL  TOTAL  TOTAL  TOTAL  TOTAL  TOTAL  TOTAL  TOTAL  TOTAL  TOTAL  TOTAL  TOTAL  TOTAL  TOTAL  TOTAL  TOTAL  TOTAL  TOTAL  TOTAL  TOTAL  TOTAL  TOTAL  TOTAL  TOTAL  TOTAL  TOTAL  TOTAL  TOTAL  TOTAL  TOTAL  TOTAL  TOTAL  TOTAL  TOTAL  TOTAL  TOTAL  TOTAL  TOTAL  TOTAL  TOTAL  TOTAL  TOTAL  TOTAL  TOTAL  TOTAL  TOTAL  TOTAL  TOTAL  TOTAL  TOTAL  TOTAL  TOTAL  TOTAL  TOTAL  TOTAL  TOTAL  TOTAL  TOTAL  TOTAL  TOTAL  TOTAL  TOTAL  TOTAL  TOTAL  TOTAL  TOTAL  TOTAL  TOTAL  TOTAL  TOTAL  TOTAL  TOTAL  TOTAL  TOTAL  TOTAL  TOTAL  TOTAL  TOTAL  TOTAL  TOTAL  TOTAL  TOTAL  TOTAL  TOTAL  TOTAL  TOTAL  TOTAL  TOTAL  TOTAL  TOTAL  TOTAL  TOTAL  TOTAL  TOTAL  TOTAL  TOTAL  TOTAL  TOTAL  TOTAL  TOTAL  TOTAL  TOTAL  TOTAL  TOTAL  TOTAL  TOTAL  TOTAL  TOTAL  TOTAL  TOTAL  TOTAL  TOTAL  TOTAL  TOTAL  TOTAL  TOTAL  TOTAL  TOTAL  TOTAL  TOTAL  TOTAL  TOTAL  TOTAL  TOTAL  TOTAL  TOTAL  TOTAL  TOTAL  TOTAL  TOTAL  TOTAL  TOTAL  TOTAL  TOTAL  TOTAL  TOTAL  TOTAL  TOTAL  TOTAL  TOTAL  TOTAL  TOTAL  TOTAL  TOTAL  TOTAL  TOTAL  TOTAL  TOTAL  TOTAL  TOTAL  TOTAL  TOTAL  TOTAL  TOTAL  TOTAL  TOTAL  TOTAL  TOTAL  TOTAL  TOTAL  TOTAL  TOTAL  TOTAL  TOTAL  TOTAL  TOTAL  TOTAL  TOTAL  TOTAL  TOTAL  TOTAL  TOTAL  TOTAL  TOTAL  TOTAL  TOTAL  TOTAL  TOTAL  TOTAL  TOTAL  TOTAL  TOTAL  TOTAL  TOTAL  TOTAL  TOTAL  TOTAL  TOTAL  TOTAL  TOTAL  TOTAL  TOTAL  TOTAL  TOTAL  TOTAL  TOTAL  TOTAL  TOTAL  TOTAL  TOTAL  TOTAL  TOTAL  TOTAL  TOTAL  TOTAL  TOTAL  TOTAL  TOTAL  TOTAL  TOTAL  TOTAL  TOTAL  TOTAL  TOTAL  TOTAL  TOTAL  TOTAL  TOTAL  TOTAL  TOTAL  TOTAL  TOTAL  TOTAL  TOTAL  TOTAL  TOTAL  TOTAL  TOTAL  TOTAL  TOTAL  TOTAL  TOTAL  TOTAL  TOTAL  TOTAL  TOTAL  TOTAL  TOTAL  TOTAL  TOTAL  TOTAL  TOTAL  TOTAL  TOTAL  TOTAL  TOTAL  TOTAL  TOTAL  TOTAL  TOTAL  TOTAL  TOTAL  TOTAL  TOTAL  TOTAL  TOTAL  TOTAL  TOTAL  TOTAL  TOTAL  TOTAL  TOTAL  TOTAL  TOTAL  TOTAL  TOTAL  TOTAL  TOTAL  TOTAL  TOTAL  TOTAL  TOTAL  TOTAL  TOTAL  TOTAL  TOTAL  TOTAL  TOTAL	POS WELL (()	TAL CODE  14-W 16  L-DRILLER'S TELEF  004) 85-7  L	PHONE NO.  ODO 8  other (specify)  tt.	DATE WELL ORIGINALL CONSTRUCT DATE OF L RECONSTRUCT DEPTH TO	AST YYYY MARTINGTION WELL LOG AVAIL  WELL LOG AVAIL  Wes (attach) TOP OF SCREEN  m or  TER-BEARING FRACE	ABLE? no ft.		
WELL-DRILLER'S NAME, COMPANY AND ADDRE COLUMBIA WATER 25188 - 57nd Av Alderg vove, BC  TYPE OF WELL  Mortilled dug other (specify)  DEPTH OF WELL  m or 61.0 ft.  WELL CAPACITY  33 L/s or 1gpm	METHOD OF DRILLING TOTAL METHOD OF DRILLING TOTAL METHOD OF DRILLING TOTAL METHOD OF DRILLING TOTAL METHOD OF DRILLING TOTAL TOTAL METHOD OF DRILLING TOTAL TOTAL METHOD OF DRILLING TOTAL TOTAL METHOD OF DRILLING TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTA	POS WELL (()	TAL CODE  14-W 16-  15-PRILLER'S TELEF  004) 85-7    jetted   jetted   jetted   jetted   jetted   jetted   jetted   jetted   jetted   jetted   jetted   jetted   jetted   jetted   jetted   jetted   jetted   jetted   jetted   jetted   jetted   jetted   jetted   jetted   jetted   jetted   jetted   jetted   jetted   jetted   jetted   jetted   jetted   jetted   jetted   jetted   jetted   jetted   jetted   jetted   jetted   jetted   jetted   jetted   jetted   jetted   jetted   jetted   jetted   jetted   jetted   jetted   jetted   jetted   jetted   jetted   jetted   jetted   jetted   jetted   jetted   jetted   jetted   jetted   jetted   jetted   jetted   jetted   jetted   jetted   jetted   jetted   jetted   jetted   jetted   jetted   jetted   jetted   jetted   jetted   jetted   jetted   jetted   jetted   jetted   jetted   jetted   jetted   jetted   jetted   jetted   jetted   jetted   jetted   jetted   jetted   jetted   jetted   jetted   jetted   jetted   jetted   jetted   jetted   jetted   jetted   jetted   jetted   jetted   jetted   jetted   jetted   jetted   jetted   jetted   jetted   jetted   jetted   jetted   jetted   jetted   jetted   jetted   jetted   jetted   jetted   jetted   jetted   jetted   jetted   jetted   jetted   jetted   jetted   jetted   jetted   jetted   jetted   jetted   jetted   jetted   jetted   jetted   jetted   jetted   jetted   jetted   jetted   jetted   jetted   jetted   jetted   jetted   jetted   jetted   jetted   jetted   jetted   jetted   jetted   jetted   jetted   jetted   jetted   jetted   jetted   jetted   jetted   jetted   jetted   jetted   jetted   jetted   jetted   jetted   jetted   jetted   jetted   jetted   jetted   jetted   jetted   jetted   jetted   jetted   jetted   jetted   jetted   jetted   jetted   jetted   jetted   jetted   jetted   jetted   jetted   jetted   jetted   jetted   jetted   jetted   jetted   jetted   jetted   jetted   jetted   jetted   jetted   jetted   jetted   jetted   jetted   jetted   jetted   jetted   jetted   jetted   jetted   jetted   jetted   jetted   jett	PHONE NO.  ODO 8  other (specify)  tt.	DATE WELL ORIGINALL CONSTRUCT DATE OF L RECONSTRUCT DEPTH TO	AST YYYY MARKETED   GQQ    AST YYYY MARKETION    WELLLOG AVAIL    Wes (attach)  TOP OF SCREEN    M or	ABLE? no		
WELL-DRILLER'S NAME, COMPANY AND ADDRE  COLUMBIA WATER  25188 - 57nd Av  Alderg vove, BC  TYPE OF WELL  Morilled dug other (specify)  DEPTH OF WELL  MORILL CAPACITY  33 Us or 1gpm  WELLHEAD ENCLOSURE	METHOD OF DRILLING Totary Cabl  IAMETER OF WELL  m or  LOCATION OF WATER-BEARING FF	POS WELL (()  de driven  SCREEN LE  in. 4.3  RACTION(S) (for be	TAL CODE  14 W 16  L-DRILLER'S TELER  004) 857  Lighted []  ENGTH  mor  drock wells):	- 7. PHONE NO. P 0008 Other (specify)	DATE WELL ORIGINALL CONSTRUCT DATE OF LE RECONSTRUCT DEPTH TO 13 , IELD OF WAY	AST YYYY MARKETION WELLLOG AVAIL  WELLLOG AVAIL  Yes (attach)  TOP OF SCREEN  MOT  TER-BEARING FRACT	ABLE?  no  tt.  TION(S)  Igpm		
WELL-DRILLER'S NAME, COMPANY AND ADDRE  COLUMBIA WATER  25188 - 57nd Av  Alderg vove, BC  TYPE OF WELL  Metal and a mor of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the	METHOD OF DRILLING Totary Cabl IMMETER OF WELL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL T	POS WELL (()  Ge driven  SCREEN LE  in. 4.3  FACTION(S) (for be  SURFACE SANITAR grouted to 3.	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TION(S)  Igpm		
WELL-DRILLER'S NAME, COMPANY AND ADDRE  COLUMBIA WATER  25188 - 57nd An  Alderg vove, BC  TYPE OF WELL  Mortilled dug other (specify)  DEPTH OF WELL  m or 61.0 ti.  WELL CAPACITY  33 Us or 1gpm  WELLHEAD ENCLOSURE	METHOD OF DRILLING Totary Cabl IAMETER OF WELL TO OF WATER-BEARING FF  THOW WAS PUMPING RATE PETERI	POS WELL (()  In driven  In 4.3  RACTION(S) (for be SURFACE SANITAF grouted to 3.	TAL CODE  14-W 16-  15-PRILLER'S TELEF  604) 85-7  15-PRILLER'S TELEF  604) 85-7  15-PRILLER'S TELEF  604) 85-7  15-PRILLER'S TELEF  604) 85-7  15-PRILLER'S TELEF  604) 85-7  15-PRILLER'S TELEF  604) 85-7  15-PRILLER'S TELEF  604) 85-7  15-PRILLER'S TELEF  604) 85-7  15-PRILLER'S TELEF  604) 85-7  15-PRILLER'S TELEF  604) 85-7  15-PRILLER'S TELEF  604) 85-7  15-PRILLER'S TELEF  604) 85-7  15-PRILLER'S TELEF  604) 85-7  15-PRILLER'S TELEF  605  15-PRILLER'S TELEF  605  15-PRILLER'S TELEF  605  15-PRILLER'S TELEF  605  15-PRILLER'S TELEF  605  15-PRILLER'S TELEF  605  15-PRILLER'S TELEF  605  15-PRILLER'S TELEF  605  15-PRILLER'S TELEF  605  15-PRILLER'S TELEF  605  15-PRILLER'S TELEF  605  15-PRILLER'S TELEF  605  15-PRILLER'S TELEF  605  15-PRILLER'S TELEF  605  15-PRILLER'S TELEF  605  15-PRILLER'S TELEF  605  15-PRILLER'S TELEF  605  15-PRILLER'S TELEF  605  15-PRILLER'S TELEF  605  15-PRILLER'S TELEF  605  15-PRILLER'S TELEF  605  15-PRILLER'S TELEF  605  15-PRILLER'S TELEF  605  15-PRILLER'S TELEF  605  15-PRILLER'S TELEF  605  15-PRILLER'S TELEF  605  15-PRILLER'S TELEF  605  15-PRILLER'S TELEF  605  15-PRILLER'S TELEF  605  15-PRILLER'S TELEF  605  15-PRILLER'S TELEF  605  15-PRILLER'S TELEF  605  15-PRILLER'S TELEF  605  15-PRILLER'S TELEF  605  15-PRILLER'S TELEF  605  15-PRILLER'S TELEF  605  15-PRILLER'S TELEF  605  15-PRILLER'S TELEF  605  15-PRILLER'S TELEF  605  15-PRILL'S TELEF  605  15-PRILL'S TELEF  605  15-PRILL'S TELEF  605  15-PRILL'S TELEF  605  15-PRILL'S TELEF  605  15-PRILL'S TELEF  605  15-PRILL'S TELEF  605  15-PRILL'S TELEF  605  15-PRILL'S TELEF  605  15-PRILL'S TELEF  605  15-PRILL'S TELEF  605  15-PRILL'S TELEF  605  15-PRILL'S TELEF  605  15-PRILL'S TELEF  605  15-PRILL'S TELEF  605  15-PRILL'S TELEF  605  15-PRILL'S TELEF  605  15-PRILL'S TELEF  605  15-PRILL'S TELEF  605  15-PRILL'S TELEF  605  15-PRILL'S TELEF  605  15-PRILL'S TELEF  605  15-PRILL'S TELEF  605  15-PRILL'S TELEF  605  15-PRILL'S TELEF  605  15-PRILL'S TELEF  605  15-PRILL'S TELEF  605  15-PRILL'S TELEF  605  15-P	7 2 PHONE NO. 7 0008 Other (specify) ft. 1 D	DATE WELL ORIGINALL CONSTRUCT  DATE OF L RECONSTR	AST YYYY MALL LOG AVAIL  WELL LOG AVAIL  Well LOG AVAIL  Yes (attach)  TOP OF SCREEN  On or  TER-BEARING FRACT  L's or  Trace seal   pillo	ABLE?  no  tt.  TION(S)  Igpm		
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WELL-DRILLER'S NAME, COMPANY AND ADDRE  COLUMBIA WATER  25 188 - 5 2nd Av  Alderg vove, BC  TYPE OF WELL  Morified dug other (specify)  DEPTH OF WELL  MELL CAPACITY  WELL CAPACITY  SUBJECT DEPTH OF WELL  MORIFIED ENCLOSURE  pump house manhole other (specify)  Other (specify)  Other (specify)  Other (specify)  Other (specify)  Other (specify)	METHOD OF DRILLING Totary Cabl IAMETER OF WELL TO OF WATER-BEARING FF  THOW WAS PUMPING RATE PETERI	WELL  de driven  SCREEN LE  in. 4.3  FACTION(S) (for be  SURFACE SANITAR  grouted to 3.  MINED?  2 6/28/26/4	TAL CODE  14-W 16-  15-PRILLER'S TELEF  604) 85-7  15-PRILLER'S TELEF  604) 85-7  15-PRILLER'S TELEF  604) 85-7  15-PRILLER'S TELEF  604) 85-7  15-PRILLER'S TELEF  604) 85-7  15-PRILLER'S TELEF  604) 85-7  15-PRILLER'S TELEF  604) 85-7  15-PRILLER'S TELEF  604) 85-7  15-PRILLER'S TELEF  604) 85-7  15-PRILLER'S TELEF  604) 85-7  15-PRILLER'S TELEF  604) 85-7  15-PRILLER'S TELEF  604) 85-7  15-PRILLER'S TELEF  604) 85-7  15-PRILLER'S TELEF  605  15-PRILLER'S TELEF  605  15-PRILLER'S TELEF  605  15-PRILLER'S TELEF  605  15-PRILLER'S TELEF  605  15-PRILLER'S TELEF  605  15-PRILLER'S TELEF  605  15-PRILLER'S TELEF  605  15-PRILLER'S TELEF  605  15-PRILLER'S TELEF  605  15-PRILLER'S TELEF  605  15-PRILLER'S TELEF  605  15-PRILLER'S TELEF  605  15-PRILLER'S TELEF  605  15-PRILLER'S TELEF  605  15-PRILLER'S TELEF  605  15-PRILLER'S TELEF  605  15-PRILLER'S TELEF  605  15-PRILLER'S TELEF  605  15-PRILLER'S TELEF  605  15-PRILLER'S TELEF  605  15-PRILLER'S TELEF  605  15-PRILLER'S TELEF  605  15-PRILLER'S TELEF  605  15-PRILLER'S TELEF  605  15-PRILLER'S TELEF  605  15-PRILLER'S TELEF  605  15-PRILLER'S TELEF  605  15-PRILLER'S TELEF  605  15-PRILLER'S TELEF  605  15-PRILLER'S TELEF  605  15-PRILLER'S TELEF  605  15-PRILLER'S TELEF  605  15-PRILLER'S TELEF  605  15-PRILLER'S TELEF  605  15-PRILLER'S TELEF  605  15-PRILLER'S TELEF  605  15-PRILLER'S TELEF  605  15-PRILLER'S TELEF  605  15-PRILL'S TELEF  605  15-PRILL'S TELEF  605  15-PRILL'S TELEF  605  15-PRILL'S TELEF  605  15-PRILL'S TELEF  605  15-PRILL'S TELEF  605  15-PRILL'S TELEF  605  15-PRILL'S TELEF  605  15-PRILL'S TELEF  605  15-PRILL'S TELEF  605  15-PRILL'S TELEF  605  15-PRILL'S TELEF  605  15-PRILL'S TELEF  605  15-PRILL'S TELEF  605  15-PRILL'S TELEF  605  15-PRILL'S TELEF  605  15-PRILL'S TELEF  605  15-PRILL'S TELEF  605  15-PRILL'S TELEF  605  15-PRILL'S TELEF  605  15-PRILL'S TELEF  605  15-PRILL'S TELEF  605  15-PRILL'S TELEF  605  15-PRILL'S TELEF  605  15-PRILL'S TELEF  605  15-PRILL'S TELEF  605  15-PRILL'S TELEF  605  15-PRILL'S TELEF  605  15-P	7 2 PHONE NO. 7 0008 Other (specify) ft. 1 D	DATE WELL ORIGINALL CONSTRUCT  DATE OF L RECONSTR	AST YYYY MALL LOG AVAIL  WELL LOG AVAIL  Well LOG AVAIL  Yes (attach)  TOP OF SCREEN  On or  TER-BEARING FRACT  L's or  Trace seal   pillo	ABLE? no  tt.  TION(S)  Igpm		
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#### **Appendix 1.3 Well Assessment Form (continued)**

SOOTION OF THE MONEY I HECOLOGY FIRST STREET STREET	WATER QUALITY RECORDS (Refer to Step 1)
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Please indicate the occurrence of any test results in the last 10 years that meet the following conditions:

PARAMETER	RECURRING PROBLEMS	TEST RESULTS	EXCEEDENCES OF CDWQG 1
Bacteriological Total/Faecal Coliforms Background Heterotrophic plate counts Iron and Sulphate Reducers	NA		
<u>Disinfection by-products</u> Bromodichloromethane Dibromochloromethane Chloroform	17/8	·	
Physical Parameters pH, colour, alkalinity, specific conductance, hardness, total dissolved solids, total organic carbon, turbidity	NB		
inorganic Parameters Nitrates, fluoride, sulfate, sulphide, ammonia, chloride, nitrite, nitrogen (organic)	216		
Metals* Calcium, iron, magnesium, manganese, sodium	11/18		

<sup>1</sup> Canadian Drinking Water Quality Guidelines, 6th edition

Please sketch in the box below the location sampling point with respect to the well.

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<sup>\*</sup> A metal scan is usually performed every 3 years at least, and includes aluminum, arsenic, barium, cadmium, chromium, copper, lead, molybdenum, nickel, phosphorus, silver and zinc.

## Appendix 1.3 Well Assessment Form (continued)

PART V: WA		ATMENT	INFORM	IATION (R	efer to	Step 1)		
IS THIS SOURCE TREATED? I IF YES, TYPE OF TREATI	MEN I	carbon filter	alr strippe	er waters	oftener	other		
PURPOSE OF TREATMENT		]				specify)		
TOTAL OSE OF THE WHILE IT								
IF SOURCE IS CHLORINATED, Total Chlorine	Fre	e Chlorine	WHAT IS TH	E RESIDUAL LEV	EL OF TREAT	MENT?		
IS A CHLORINE RESIDUAL   MAINTAINED?	m	ppm						
IS THERE ANY WATER STORAGE IN THE SYSTEM?	yes	no		ER TREATMENT B	EFORE OR AF	TER _	before after	
WHAT IS THE TOTAL AND Total Chlorine	L *	e Chlorine	THE STORA	GE UNIT? NY ADDITIONAL	1 Total	al Chlorine	Free Chlorin	· ·
FREE CHLORINE IN THE DISTRIBUTION SYSTEM?	1	ppm	CHLORINE	ADDED AFTER E (rechlorination)	1	ppm	1	ppm
WHAT TYPE OF CHEMICALS ARE USED IN THIS PROCES	S? (specify)			CHEMICALS STO			1	
		,						
IS THERE PROPER STORAGE Yes IF STORED II	N PUMP HOUSE	E, HOW ARE CHE	MICALS ISOLA	TED FROM THE W	/ELL?			
FOR THESE CHEMICALS? no								
PART VI: MAPPING THE C	APTURE	ZONE TO	YOUR	COMMUN	ITY WE	LL (Refe	r to Step 2)	
A map (1:5000 to 1:20,000 are typical so Multiple wells in the same area can be	cales) Will i	be needed to	complete	e this section	n.			
CIRCULAR CAPTURE ZONE (refer to			P	ARABOLIC CA	PTURE ZO	NE (refer to A	Appendix 2.2)*	
*attach calculation sheets F	RADIUS (m)		Downgradies			Width of		
Arbitrary Fixed Radius See	iteau	1	distance		m	capture zone		
g (1-year travel time)* 1000		٧.	surface wa	iver, lake, pond, ter body within ti	stream or oth ne 6-month tir	ne of travel	∫ yes (identify on map Tno	P)
(5-year travel time)*	· 2	003	boundary?					
(1-year travel time)* Vepoy + (5-year travel time)* Dec			treatment la	tormwater and/o	pond located	facility, I within the	yes (identify on map	0)
L (10-year naver nine)			6-month tin	ne of travel boun	dary?	L	] 110	
	VII: SO	URCE SU	RVEY (R	efer to Si	ep 3)			
4 REGIONAL SOURCES OF RISK TO GROUND WATER	V-1	-4 <del>-</del>	11	46 a a a melecena a a		ee	W212-	
Please Indicate if any of the following potent	T.O.T. NOT		ion within	T	one. 5		VV 21 Z	
ACTIVITY	SPECIFIED	1-YEAR	5-YEAR	10-YEAR		COMM	ENTS	
Chemical Storage (specify)								
Injection wells			·					
Abandoned wells								
Landfills, dumps, disposal areas								
Commercial/industrial sites								
Known hazardous materials clean-up site								[]
Household hazardous waste							-A	
Population density > 2 houses per hectare								
On-site sewage treatment								
Wastewater treatment facility  Sites used for land application of waste								
Golf course					<del> </del>			$-\!\!\!\!\!\!\!\!\!\!\!\!\!\!\!\!\!\!\!\!\!\!\!\!\!\!\!\!\!\!\!\!\!\!\!\!$
								$-\parallel$
Dairy or beef farms Poultry barns				<del> </del>				$-\parallel$
Hobby farms		<del></del>		<b></b>				$-\parallel$
Fields: vegetables, hay, fruit (specify)								
								$-\!\!\!\!\!\!\!\!\!\!\!\!\!\!\!\!\!\!\!\!\!\!\!\!\!\!\!\!\!\!\!\!\!\!\!\!$
Mining operations  Gravel pite				· · · · · · · · · · · · · · · · · · ·				$-\parallel$
Gravel pits								
* Mark and Identify on map any of the potential s	ources listed	above which	are located	within the capt	ure zone b	oundary.		
SEPTIC FIELD SETBACK GRADIÈNT TO SE	-	<u> </u>			F ON-SITE SE	WAGE DISPOSA		
upgrade		same gra	4-1-004404	ITY SYSTEM		LOVOTEM DEG		
	downgrade	same gra	de COMMUN	HIT STOTEM		SYSTEM PER	LOI	l

HLTH 160, page 4 of 4 99/03/18

PHCL PRO			CASING STICKUP: 2.0 ft (0.61 m)			WELL NO: TW 2-99 W2/2		
	DJECT NO: 1705102	STATIC W	ATER LEV	EL: 11.	47 ft (3.496 m)	PUMPING TEST: Yes		
LOCATION	l: RMoW's Re-Use-It Site	COMPLE	TION DEPTI	1: 61.0	ft (18.6 m)	WATER ANALYSIS: Yes		
Depth	Description	on	Depth (m)	Symbol	Well Data	Remarks		
0 t m 0 2	Ground Surface Sand (0 to 3.7 m) - brown, silty, conta wood and lighter in colour belo	nining wood; less ow 6 ft (1.8 m)	0-		7	8" (200 mm) diameter casing stickup = 2.0 ft (0.61 m).		
6 8 1 10 12 14 14 14 14 16 11 16 11 16 11 16 11 16 11 16 11 16 11 16 11 16 11 16 11 16 11 16 11 16 11 16 11 16 11 16 11 16 11 16 11 16 11 16 11 16 11 16 11 16 11 16 11 16 11 16 11 16 11 16 11 16 11 16 11 16 11 16 11 16 11 16 11 16 11 16 11 16 11 16 11 16 11 16 11 16 11 16 11 16 11 16 11 16 11 16 11 16 11 16 11 16 11 16 11 16 11 16 11 16 11 16 11 16 11 16 11 16 11 16 11 16 11 16 11 16 11 16 11 16 11 16 11 16 11 16 11 16 11 16 11 16 11 16 11 16 11 16 11 16 11 16 11 16 11 16 11 16 11 16 11 16 11 16 11 16 11 16 11 16 11 16 11 16 11 16 11 16 11 16 11 16 11 16 11 16 11 16 11 16 11 16 11 16 11 16 11 16 11 16 11 16 11 16 11 16 11 16 11 16 11 16 11 16 11 16 11 16 11 16 11 16 11 16 11 16 11 16 11 16 11 16 11 16 11 16 11 16 11 16 11 16 11 16 11 16 11 16 11 16 11 16 11 16 11 16 11 16 11 16 11 16 11 16 11 16 11 16 11 16 11 16 11 16 11 16 11 16 11 16 11 16 11 16 11 16 11 16 11 16 11 16 11 16 11 16 11 16 11 16 11 16 11 16 11 16 11 16 11 16 11 16 11 16 11 16 11 16 11 16 11 16 11 16 11 16 11 16 11 16 11 16 11 16 11 16 11 16 11 16 11 16 11 16 11 16 11 16 11 16 11 16 11 16 11 16 11 16 11 16 11 16 11 16 11 16 11 16 11 16 11 16 11 16 11 16 11 16 11 16 11 16 11 16 11 16 11 16 11 16 11 16 11 16 11 16 11 16 11 16 11 16 11 16 11 16 11 16 11 16 11 16 11 16 11 16 11 16 11 16 11 16 11 16 11 16 11 16 11 16 11 16 11 16 11 16 11 16 11 16 11 16 11 16 11 16 11 16 11 16 11 16 11 16 11 16 11 16 11 16 11 16 11 16 11 16 11 16 11 16 11 16 11 16 11 16 11 16 11 16 11 16 11 16 11 16 11 16 11 16 11 16 11 16 11 16 11 16 11 16 11 16 11 16 11 16 11 16 11 16 11 16 11 16 11 16 11 16 11 16 11 16 11 16 11 16 11 16 11 16 11 16 11 16 11 16 11 16 11 16 11 16 11 16 11 16 11 16 11 16 11 16 11 16 11 16 11 16 11 16 11 16 11 16 11 16 11 16 11 16 11 16 11 16 11 16 11 16 11 16 11 16 11 16 11 16 11 16 11 16 11 16 11 16 11 16 11 16 11 16 11 16 11 16 11 16 11 16 11 16 11 16 11 16 11 16 11 16 11 16 11 16 11 16 11 16 11 16 11 16 11 16 11 16 11 16 11 16 11 16 11 16 11 16 11 16 11 16 11 16 11 16 11 16 11 16 11 16 11 16 11 16 11 16 11 16 11 16 11 16 11 16 11 16 11 16 11 16 11	Sand (3.7 to 7.0 m) - light brown, silty, stones	, containing some	2			Static water level on November 29, 1999, = 11.47 ft (3.496 m) below ground. Grout surface seal was placed as 12.5 ft (3.8 m) of 10" (250 mm) diameter surface casing was		
18	Cobbles, coarse gravel and (7.0 to 10.1 m)	nd sand	8-7			recovered.		
34 - 10 34 - 38 - 12 40 - 12 42 - 44 - 14 48 - 14 48 - 50 - 15 52 - 1	Sand (10.1 to 15.8 m) - coarse, and fir	ne gravel	10 — 3			8" casing shoe is at 50 ft (15.2 m).  Type K packer and riser pipe, 2.5 ft (0.76 m) long, at top of well screen assembly = 45.75 ft (13.9 m).  Well screen is 8" (200 mm) nominal		
54 - 16 54 - 58 - 18 60 - 62 - 62 - 62 - 62 - 62 - 62 - 62 -	Gravel (15.8 to 18.0 m) - coarse to fine,  Sand (18.0 to 18.9 m) - coarse, stone		16 - 16 - 18 - 18 - 18 - 18 - 18 - 18 -			diameter (telescopic) Johnson stainless steel, with 5 ft (1.5 m) of 0.150" (3.81 mm) slot over 5 ft of 0.200" (5.08 mm) slot; screen is exposed to the aquifer between 48 and 58 ft (14.6 and 17.7 m). Bottom of assembly, at 61.0 ft (18.6 m),		
64						and which is closed with a flat steel plate, includes 2 ft (0.6 m) of pipe.		
ONTRACT	FOR: CWW (1986) Ltd.	DATE: 11/16/99		PA	Const	COLOGY CONSULTANTS LTD.  ulting Hydrogeologists		
PAGE: 1 of	METHOD: Cable Tool	BY: cp	·		Suite 20' VANCOUV	I, 1537 West 8th Avenue ER, B.C. Canada V6J 1T5 hone: (604) 730-6990		



Ministry of Health and Ministry Responsible for Seniors Lands and Parks

Ministry of Environment,

#### WELL ASSESSMENT FORM

TO BE USED WITH THE WELL PROTECTION TOOLKIT.

IMPORTANTI Please complete one form for each ground water source used in your water system. Fill in available information.

If missing information, it may be advisable to contact the Ministry of Environment, Lands and Parks' Groundwater Section [(250) 387-1115], or the local driller who drilled the well, to assist. Photocopy this form as necessary.

PA	RT I: WELL ST	YSTEM INF	ORMAT	ION (Refer to	Step 1)				
WATER SYSTEM LEGAL NAME	1		LEGAL DES	CRIPTION OF WELL LO	CATION				
Cheakamus Crossi	19 W21	+							
WATER SYSTEM LEGAL ADDRESS	U					•			
LATITUDE / LONGITUDE :	HOW WERE LOCATION	COORDINATES DET	TERMINED?		<u> </u>	16			
123° 2' 16.6" W	GPS	(specify accu	uracy)s	survey 🔀 digitized	from Grongle 1=	arth map (specify scale)			
UTM COORDINATES	HOW MANY OTHER			WATER SYSTEM		-			
-	WELLS MAKE UP THE WATER SYSTEM?		ALSO USE A WATER SOU	RCE? (describe)					
NUMBER OF CONNECTIONS	POPULATION SERVED	WATER USE	<u> </u>		othe	r (specify)			
Maximum Actual	·	domestic	irrigation	commercial	industrial				
WIN NO.	EMS NO.			WE	LL TAG NO.				
23194					_				
Contact your loc	al Ministry of Environme	ent, Lands and Pa	arks office or	local Health Unit for	r the following inform	 nation:			
WIN NO. = MoELP's metal tag affixed to the			nber for the wa	ter chemistry on BC V	WELL TAG NO. = MoELI	P's computer number for the well.			
Identification.	their data	adase.	1						
Bulk supply X yes no	Back-up supply	yes no	Emergency	supply yes	no Meter	red 🔀 yes 🗌 no			
WELL OPERATOR			·			RATOR'S PHONE NO.			
WELL OWNER WELL OWNER WELL OWNER WELL OWNER					(604	1932-5535			
WELL OPERATOR'S ADDRESS	<u> </u>	. 1		<u> </u>		·			
9 4325 Black	comb Wai	1. Whist	Her 1	£					
WELL OWNER		1	<del>)</del>	<del> </del>	WELL OW	NER'S PHONE NO.			
NO NI NI NI NI NI NI NI NI NI NI NI NI NI	-as a	bore -			(	)			
WELL OWNER'S ADDRESS					<del></del>				
*									
PART I	: WELL CONS	TRUCTION	INFOR	MATION (Ref	er to Step 1	}			
THE I DOWN FOR MANY COMPANY AND AD	DDEGG			AL CODE	DATE WELL				
Field Drilling Con	tractois L	_td.	i va	414/ 0.00	ORIGINALL CONSTRUC				
Field Drilling Con Box 841, 2532	n Frosor H	chiery		1W 241		08 104 106			
111, 45 52	() 11-251 ///	and y	•	-DRILLER'S TELEPHON	I DATE OF L	AST YYYY MM DD			
Aldergrove, B.C.			(60	4)857-22	66 RECONSTR	UCTION			
TYPE OF WELL	METHOD	OF DRILLING			L	WELL LOG AVAILABLE?			
drilled due other	rota		driven	jetted other		yes (attach) no			
DEPTH OF WELL	DIAMETER OF WELL	tool L	LSCREENIE	(spec		TOP OF SCREEN			
20.7 mor tt.		· in.	SOMEEN LE		ft.				
WELL CAPACITY	LOCATION OF WATE		IONIC) /for bod	m or		m or ft.			
7.4		N-BEARING PHACTI	ION(S) (IOF Dec	rock wells);	TIELD OF WA	TER-BEARING FRACTION(S)			
WELLHEAD ENCLOSURE	om	CUR	FACE SANITAR	VOCAL		Us or Igpm			
D nump bouse D manhole Col			ted to \$_	_	ft. 🗆 no sur	face seal  pitless adapter			
	pecify)	<u> </u>				·			
AVERAGE PUMPING RATE	HOW WAS PUMPING	HAIE DETERMINE	Uf			TAKE SETTING PUMP AGE			
L/s or igp		DIRIDED OFFERIM	IEDA			or ft.			
ANNUAL VOLUME OF WATER PUMPED	HOW WAS VOLUME I	PUMPED DETERMIN	NED?						
L or Igal	ANY CHANCES OF F	EDAIDO MADE TO T	THE DI WOULD	FOUNDATION (and all the	<u> </u>				
PUMPING CAPACITY		ierains made 10 T	INE PUMPING	EQUIPMENT? (specify)	,				
L/s or Igg	om		ı	STORAGE CARACTI		COMMON IN STOR OF STREET			
TYPE OF STORAGE tank(s) reservoir other			ļ	STORAGE CAPACITY	•	COMMON INLET OR OUTLET?			
(specin)	/)				r Igal				
ATTACHED INFORMATION  well log drawings reports	s pump test data	water quality d	lata	documenti	ing well constructio	se attach any other records   n (i.e., "as built" drawings,			
N   1   1   1   1   1   1   1   1   1					g reports).	- 1			

PART III	: HYDRO	OGEOLOGI	C INFO	RMATION	(Refer to Steps 1 and 2)	
DEPTH TO PUMPING WATER LEVEL	DEPTH TO N			HOW WAS WATER	_EVEL MEASURED?  wetted tape  probe  transduc	· ·
m orft.  IF WELL IS FLOWING, WHAT IS THE ARTESIAN				<u> </u>	IF SOURCE IS A FLOWING WELL OR SPRING	, IS THERE A STORAGE
PRESSURE HEAD AND FLOW? m or ft.					IMPOUNDMENT OR RESERVOIR ASSOCIATE yes (specify)	ED WITH THIS SOURCE?
WELLHEAD ELEVATION (height above mea					map (specify scale other	
TYPE OF CONFINING LAYER FROM WELL	- '   -	· •	altimeter	topographic	and contour interval) (specify)	XTENSIVE IS CONFINING
LOG (e.g., day, till)	FROM WELL L	PTH	r ft.	THICKNESS OF CONFINING LAYER FROM WELL LOG	m or ft. LAYER?	
IS YOUR WELL ASSOCIATED NAME OF A WITH A KNOWN AQUIFER?  yes no	QUIFER				AQUIFER CLASSIFICATION AQUIFE NUMBER (from MoELP) (from M	R CLASSIFICATION oELP)
TYPE OF AQUIFER  unconsolidated, unconsolidated confined  aQUIFER TRANSMISSIVITY		rock (agricultural, industrial), L	JS OR 500 C , municipal a OCATED WI THE COMMI	Ind/or Ho THIN A 300-m JNITY WELL?	yes ANNUAL RAINF w many? no	m or in.
2.	ppd/ft.	from pumping test		n specific capacity	other (specify)	
HYDRAULIC GRADIENT	HOW W	AS HYDRAULIC GR			<u> </u>	
1 to 3%		from well water le		from topography	other (specify)  IEVE MAY AFFECT THE SHAPE OF THE CAPTU	
PART  1 HOW LONG HAS THE WATER SYSTEM  ANY WATER QUALITY PROBLEMS?  yes no don't know	'IV: ASS	ESSMENT ENCE?  ND WHAT OF THESE SLEMS IMP failure, ined usage,		ITER QUAL	ITY (Refer to Step 1) ELL EVER BEEN DEEPENED, CLEANED, NEW	
	ALITY CHANGES	WERE APPARENT	(Le., taste,	colour, turbidity, oth	er)? • WHAT ACTION WAS TAKEN TO OVERO	OME THIS PROBLEM?
			•••••			
			•••••			
······································				· · · · · · · · · · · · · · · · · · ·		
4		PACT	EDIAL C	OTTAMINATION	<u> </u>	
ANY BACTERIAL DETECTION(S) IN THE PA		BACI	ENIAL C	HAVE THERE BEE	EN SAMPLING PROTOCOLS OR QA/QC	
BASED ON SOURCE-MONITORING RECOR HAS SOURCE (IN PAST 3 YEARS) HAD A BA CONTAMINATION PROBLEM FOUND IN DIS	CTERIOLOGICA			IF YES, WHAT AR	E THEY?	
THAT WAS ATTRIBUTED TO THE SOURCE? WAS THE BACTERIOLOGICAL CONTAMINA THE SOURCE?		yes				
WAS THE BACTERIOLOGICAL CONTAMINA CROSS-CONNECTIONS?	TION DUE TO			1		
	HON DUE TO	yes	no no		······································	

SOURCE-SPECIFIC WATER QUALITY RECORDS (Refer to Step 1)

Please indicate the occurrence of any test results in the last 10 years that meet the following conditions:

PARAMETER	RECURRING PROBLEMS	TEST RESULTS	EXCEEDENCES OF CDWQG 1
Bacteriological			-
Total/Faecal Coliforms			
Background Heterotrophic			
plate counts			
Iron and Sulphate Reducers			
Disinfection by-products			
Bromodichloromethane			
Dibromochloromethane			
Chloroform			
Physical Parameters			
pH, colour, alkalinity, specific		i	
conductance, hardness, total			
dissolved solids, total organic			
carbon, turbidity			
Inorganic Parameters			
Nitrates, fluoride, sulfate,			
sulphide, ammonia, chloride,			
nitrite, nitrogen (organic)			
Metals*	,		
Calcium, iron, magnesium,	·		
manganese, sodium			
manganoo, oodidiii			

<sup>&</sup>lt;sup>1</sup> Canadian Drinking Water Quality Guidelines, 6th edition

					,				•							
			•	•	•	٠	•	•		٠	٠	٠	٠		٠	•
			•				•					•				
							•									
	•	•	•	٠	•	•		•	•	•	•	•	•	•	•	•
	•		•	•	•	•	•			•	•	•	•		•	•
					•		•	-		٠		٠	•	٠	•	
	•				•			٠		•			٠	٠		
	•	. •	٠	•	•	•	•	•	•	•	٠	•	•	•	٠	•
•	•		•	•		•	•	•	•					•	•	

<sup>\*</sup> A metal scan is usually performed every 3 years at least, and includes aluminum, arsenic, barium, cadmium, chromium, copper, lead, molybdenum, nickel, phosphorus, silver and zinc.

PART V: WA	TER TREA	TMENT	INFORMA	TION (Re	efer to St	ep 1)
IS THIS SOURCE TREATED?   IF YES, TYPE OF TREAT			_		at	301
yes no disinfection	fittration	carbon filter	air strlpper	water so		ner pecify)
PURPOSE OF TREATMENT			-			
IF SOURCE IS CHLORINATED,   Total Chlorine IS A CHLORINE RESIDUAL   MAINTAINED?   pp	1 .	Chlorine ppm	WHAT IS THE	RESIDUAL LEVE	L OF TREATMEN	iT?
IS THERE ANY WATER STORAGE IN THE SYSTEM?	yes [	nó	IS THE WATER	R TREATMENT BE	FORE OR AFTE	R before after
WHAT IS THE TOTAL AND I Total Chlorine FREE CHLORINE IN THE I DISTRIBUTION SYSTEM? PF WHAT TYPE OF CHEMICALS ARE USED IN THIS PROCES	im	Chlorine ppm	IS THERE ANY CHLORINE AD THE SOURCE	Y ADDITIONAL	<del></del>	hlorine Free Chlorine ppm ppm
IS THERE PROPER STORAGE YES. IF STORED	IN PUMP HOUSE,	HOW ARE CH	EMICALS ISOLATI	ED FROM THE W	ELL?	
FOR THESE CHEMICALS? no						
PART VI: MAPPING THE	APTURE	ZONE T	O YOUR (	COMMUN	ITY WEL	L (Refer to Step 2)
A map (1:5000 to 1:20,000 are typical s Multiple wells in the same area can be	cales) will b	e needed	<del></del>			
CIRCULAR CAPTURE ZONE (refer	to Appendix 2.	.1)	PA	RABOLIC CA	PTURE ZONE	(refer to Appendix 2.2)*
*attach calculation sheets	RADIUS (m)		Downgradient distance	1		ridth of apture zone m
Arbitrary Fixed Radius			Is there a riv	ver, lake, pond,	stream or other	obvious ves (identify on map)
(1-year travel time)*			boundary?			no
(10-year travel time)*  (10-year travel time)*  (10-year travel time)*		-	treatment la	ormwater and/o goon or holding e of travel boun	pond located w	
DAP	r VII: SO	IIDOE GI	IDVEV (b	ofor to Ci	ion 3)	
4 REGIONAL SOURCES OF RISK TO GROUND WATER	VIII: 30	UNCE SC	MVETIN	eler to 3	eb 31	
Please indicate if any of the following poter	ntial sources	of contamin	ation within t	he capture z	one.	
ACTIVITY	T.O.T. NOT SPECIFIED	1-YEAR	5-YEAR	10-YEAR		COMMENTS
Chemical Storage (specify)						
Injection wells						
Abandoned wells						
Landfills, dumps, disposal areas						
Commercial/industrial sites						
Known hazardous materials clean-up site						
Household hazardous waste						
Population density > 2 houses per hectare						
On-site sewage treatment						
Wastewater treatment facility						
Sites used for land application of waste						
Golf course						
Dairy or beef farms						
Poultry barns						
Hobby farms						
Fields: vegetables, hay, fruit (specify)						
Mining operations				,		
Gravel pits						
** Mark and identify on map any of the potential	l sources liste	d above whic	ch are located	within the cap	oture zone bo	undary.
SEPTIC FIELD SETBACK GRADIENT TO	SEPTIC FIELD		<u> </u>		OF ON-SITE SEV	/AGE DISPOSAL SYSTEMS
upgrade	downgrade	e same	grade COMMUI	NITY SYSTEM		SYSTEM PER LOT
m or ft%	%					



#### PITEAU ASSOCIATES

GEOTECHNICAL AND HYDROGEOLOGICAL CONSULTANTS VANCOUVER LIMA

Client: Resort Municipality of Whistler

**Drilling Contractor: Field Drilling Contractors Ltd** 

Drilling Method: Dual Air Rotary Drilling Date: March 4-6, 2008 Well Number: W217

Location: Function Junction, Whistler B.C

Project Number: 2858 Logged By: M.Kehoe

Borehole Diameter: 406mm (16")

Well I.D. Plate: 23194

Depth Below Ground Gurface	Depth (mbGL)	Lithologic Description	Lithology	Remarks	Constructed Well
-3 -1 -1 -1 -1 -1 -1 -1 -1 -1 -1 -1 -1 -1	0.00 0.30 0.76	SAND Dark brown, fine to coarse grained sand,	0000	0.6m stick-up	
7 - 2 2 8 9 - 10 - 12 3 11 12 3 11 12 3 11 12 3 11 12 3 11 12 3 11 12 3 11 12 3 11 12 3 11 12 3 11 12 3 11 12 3 11 12 3 11 12 3 11 12 3 11 12 3 11 12 3 11 12 3 11 12 3 11 12 3 11 12 3 11 12 3 11 12 3 11 12 3 11 12 3 11 12 3 11 12 3 11 12 3 11 12 3 11 12 3 11 12 3 11 12 3 11 12 3 11 12 3 11 12 3 11 12 3 11 12 3 11 12 3 11 12 3 11 12 3 11 12 3 11 12 3 11 12 3 11 12 3 11 12 3 11 12 3 11 12 3 11 12 3 11 12 3 11 12 3 11 12 3 11 12 3 11 12 3 11 12 3 11 12 3 11 12 3 11 12 3 11 12 3 11 12 3 11 12 3 11 12 3 11 12 3 11 12 3 11 12 3 11 12 3 11 12 3 11 12 3 11 12 3 11 12 3 11 12 3 11 12 3 11 12 3 11 12 3 11 12 3 11 12 3 11 12 3 11 12 3 11 12 3 11 12 3 11 12 3 11 12 3 11 12 3 11 12 3 11 12 3 11 12 3 11 12 3 11 12 3 11 12 3 11 12 3 11 12 3 11 12 3 11 12 3 11 12 3 11 12 3 11 12 3 11 12 3 11 12 3 11 12 3 11 12 3 11 12 3 11 12 3 11 12 3 11 12 3 11 12 3 11 12 3 11 12 3 11 12 3 11 12 3 11 12 3 11 12 3 11 12 3 11 12 3 11 12 3 11 12 3 11 12 3 11 12 3 11 12 3 11 12 3 11 12 3 11 12 3 11 12 3 11 12 3 11 12 3 11 12 3 11 12 3 11 12 3 11 12 3 11 12 3 11 12 3 11 12 3 11 12 3 11 12 3 11 12 3 11 12 3 11 12 3 11 12 3 11 12 3 11 12 3 11 12 3 11 12 3 11 12 3 11 12 3 11 12 3 11 12 3 11 12 3 11 12 3 11 12 3 11 12 3 11 12 3 11 12 3 11 12 3 11 12 3 11 12 3 11 12 3 11 12 3 11 12 3 11 12 3 11 12 3 11 12 3 11 12 3 11 12 3 11 12 3 11 12 3 11 12 3 11 12 3 11 12 3 11 12 3 11 12 3 11 12 3 11 12 3 11 12 3 11 12 3 11 12 3 11 12 3 11 12 3 11 12 3 11 12 3 11 12 3 11 12 3 11 12 3 11 12 3 11 12 3 11 12 3 11 12 3 11 12 3 11 12 3 11 12 3 11 12 3 11 12 3 11 12 3 11 12 3 11 12 3 11 12 3 11 12 3 11 12 3 11 12 3 11 12 3 11 12 3 11 12 3 11 12 3 11 12 3 11 12 3 11 12 3 11 12 3 11 12 3 11 12 3 11 12 3 11 12 3 11 12 3 11 12 3 11 12 3 11 12 3 11 12 3 11 12 3 11 12 3 11 12 3 11 12 3 11 12 3 11 12 3 11 12 3 11 12 3 11 12 3 11 12 3 11 12 3 11 12 3 11 12 3 11 12 3 11 12 3 11 12 3 11 12 3 11 12 3 11 12 3 11 12 3 11 12 3 11 12 3 11 12 3 11 12 3 11 12 3 11 12 3 11 12 3 11 12 3 11 12 3 11 12 3 11 12 3 11 12 3 11 12 3 11 12 3 11 12 3 11 12 3 11 12 3 11 12 3 11 12 3 11 12 3 11 12	3.35	Brown-grey granitic boulder, brown medium to coarse grained sand, some fine grained silt, dry.  COBBLES Brown, coarse grained cobbles, fine to medium grained sand, dry.  SAND Brown- tan, medium to coarse grained sand, some gravel, well sorted, moist.  SAND and GRAVEL	00000000	0.51m (20") Surface casing installed to 5.2m bgl. Removed during installation of bentonite seal.	
13 4 14 15 15 15 16 17 17 18 18 16 19 19 19 19 19 19 19 19 19 19 19 19 19	4.88 5.49	Brown, medium to coarse grained, well rounded, moist.  SILTY SAND and GRAVEL Brown, fine to coarse grained, moist.  BOULDER Brown-grey granitic boulder.			800:
20 - 6 21 - 22 22 - 7 23 - 7 24 - 7 25 - 8 27 - 8	6.40 8.53	SAND and GRAVEL Brown, medium to coarse grained, rounded, moist.		406mm (16") diameter steel casing, wall thickness 9.5mm (0.375")	ı
29 4 9 30 4 9 31 4 10 33 4 10 34 4 11	9.75	BOULDER Brown-grey granitic boulder.  SAND and GRAVEL Brown, medium to coarse grained sand and gravel, rounded, wet.			

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Ministry of Health and Ministry Responsible for Seniors Lands and Parks

Ministry of Environment,

#### **WELL ASSESSMENT FORM**

TO BE USED WITH THE WELL PROTECTION TOOLKIT.

IMPORTANT! Please complete one form for each ground water source used in your water system. Fill in available information. If missing information, it may be advisable to contact the Ministry of Environment, Lands and Parks' Groundwater Section [(250) 387-1115], or the local driller who drilled the well, to assist. Photocopy this form as necessary.

PA	RT I: WELL SY	STEM INF	ORMATI	ON (Refer	to Step	1)	•-	
WATER SYSTEM LEGAL NAME RAINBOW PARK	W218	3	LEGAL DESC	RIPTION OF WELL	LOCATION			
WATER SYSTEM LEGAL ADDRESS			•			-		
LATITUDE (LONGITUDE	HOW WERE LOCATION (	COORDINATES DET	EDMINEDO					
LATITUDE/LONGITUDE // N	GPS	(specify accus	_	rvey 🔀 digitiz	ed from G	rogle for	25th map (s	pecify scale)
121 58 48" W UTM COORDINATES	HOW MANY OTHER		DOES THE W	ATER SYSTEM	-	- 0		
	WELLS MAKE UP THE WATER SYSTEM?		ALSO USE A: WATER SOUP	SURFACE RCE? (describe)				
NUMBER OF CONNECTIONS	POPULATION SERVED	WATERUSE					(specify)	·
Maximum Actual		domestic	irrigation	commercial	indus			
1495Z	EMS NO.	<del></del>			VELL TAG NO	- — — –		
Contact your local WIN NO. = MoELP's metal tag affixed to the vildentification.	al Ministry of Environme well for on-site EMS NO. their data	= MoELP's site num				-		r for the well.
Bulk supply yes no	Back-up supply	yes no	Emergency	supply 🔀 yes	no	Meter	<u> </u>	no
E RMOW				·			RATOR'S PHONE N	
WELL OWNER  WELL OWNER  WELL OWNER  WELL OWNER	Kcomb	Way.	Whe	Her,	30			
WELL OWNER		30YB		•		WELL OWN	ER'S PHONE NO.	
WELL OWNER'S ADDRESS			<del></del>					
PART II	: WELL CONS	TRUCTION	INFORM	AATION (B	efer to	Step 1)	i	
WELL-DRILLER'S NAME, COMPANY AND ADD			POSTA	AATION (R	efer to	DATE WELL	YYYY	MM DD
WELL-DRILLER'S NAME, COMPANY AND ADD	DRESS		POSTA		efer to		YYYY (	MM DD
	Wells (19)		/,   POSTA		2	DATE WELL ORIGINALLY CONSTRUC	YYYY TED 07-1	MM DD 06 07
WELL-DRILLER'S NAME, COMPANY AND ADD Columbia Water	Wells (19)		POSTA	L CODE	Z ONE NO.	DATE WELL ORIGINALLY	TED 07-	MM DD 66 07 MM DD
WELL-DRILLER'S NAME, COMPANY AND ADD Columbia Water 25188 - 52 nd 5 Alder grove, BC TYPE OF WELL	oress Weils (19) Freet	86) L+0	POSTA	L CODE  TWI 16-  DRILLER'S TELEPH  T) 657	Z	DATE WELL ORIGINALLY CONSTRUC	TED 07-	06 07 MM DD
WELL-DRILLER'S NAME, COMPANY AND ADD Columbia Water 25188 - 52nd S Alder grove, BC TYPE OF WELL	PRESS Wells (19) Freet	OF DRILLING	POSTA   V	L CODE  TWI 16-  DRILLER'S TELEPH  T) 657  Jietted (s)	Z ONE NO.	DATE WELL ORIGINALLY CONSTRUC  DATE OF LA RECONSTRUC	YYYY  (TED O THE INTERPOLATION INTERPOLATION INTERPOLATION INTERPOLATION INTERPOLATION INTERPOLATION INTERPOLATION INTERPOLATION INTERPOLATION INTERPOLATION INTERPOLATION INTERPOLATION INTERPOLATION INTERPOLATION INTERPOLATION INTERPOLATION INTERPOLATION INTERPOLATION INTERPOLATION INTERPOLATION INTERPOLATION INTERPOLATION INTERPOLATION INTERPOLATION INTERPOLATION INTERPOLATION INTERPOLATION INTERPOLATION INTERPOLATION INTERPOLATION INTERPOLATION INTERPOLATION INTERPOLATION INTERPOLATION INTERPOLATION INTERPOLATION INTERPOLATION INTERPOLATION INTERPOLATION INTERPOLATION INTERPOLATION INTERPOLATION INTERPOLATION INTERPOLATION INTERPOLATION INTERPOLATION INTERPOLATION INTERPOLATION INTERPOLATION INTERPOLATION INTERPOLATION INTERPOLATION INTERPOLATION INTERPOLATION INTERPOLATION INTERPOLATION INTERPOLATION INTERPOLATION INTERPOLATION INTERPOLATION INTERPOLATION INTERPOLATION INTERPOLATION INTERPOLATION INTERPOLATION INTERPOLATION INTERPOLATION INTERPOLATION INTERPOLATION INTERPOLATION INTERPOLATION INTERPOLATION INTERPOLATION INTERPOLATION INTERPOLATION INTERPOLATION INTERPOLATION INTERPOLATION INTERPOLATION INTERPOLATION INTERPOLATION INTERPOLATION INTERPOLATION INTERPOLATION INTERPOLATION INTERPOLATION INTERPOLATION INTERPOLATION INTERPOLATION INTERPOLATION INTERPOLATION INTERPOLATION INTERPOLATION INTERPOLATION INTERPOLATION INTERPOLATION INTERPOLATION INTERPOLATION INTERPOLATION INTERPOLATION INTERPOLATION INTERPOLATION INTERPOLATION INTERPOLATION INTERPOLATION INTERPOLATION INTERPOLATION INTERPOLATION INTERPOLATION INTERPOLATION INTERPOLATION INTERPOLATION INTERPOLATION INTERPOLATION INTERPOLATION INTERPOLATION INTERPOLATION INTERPOLATION INTERPOLATION INTERPOLATION INTERPOLATION INTERPOLATION INTERPOLATION INTERPOLATION INTERPOLATION INTERPOLATION INTERPOLATION INTERPOLATION INTERPOLATION INTERPOLATION INTERPOLATION INTERPOLATION INTERPOLATION INTERPOLATION INTERPOLATION INTERPOLATION INTERPOLATION INTERPOLATION INTERPOLATION INTERPOLATION INTERPOLATION INTERPOLATION INTERPOLATION INTERPOLATION INTERPOLATION	06 07 MM DD
WELL-DRILLER'S NAME, COMPANY AND ADD Columbia Water 25188 - 52 nd 5 Alder grove, BC TYPE OF WELL Addition of ther (specify)	PRESS  Wells (19)  Preet  METHOD  rota	OF DRILLING  of Lable  ty Zable	POSTA  V  WELL-  (66)  driven	L CODE  TWI 16-  DRILLER'S TELEPH  T) 657  Jietted (s)	Z	DATE WELL ORIGINALLY CONSTRUC  DATE OF LA RECONSTRUC	TED OT	06 07 MM DD
WELL-DRILLER'S NAME, COMPANY AND ADD Columbia Water 25188 - 52 nd 5 Alder grove, BC TYPE OF WELL A drilled dug dither (specify)	METHOD rotal DIAMETER OF WELL  O.406 m or  LOCATION OF WATER	OF DRILLING  OF IX cable [  16 in.	POSTA	CODE  TWI 16- DRILLER'S TELEPH  T) \$57  jetted	ONE NO.  Occity)  tt.	DATE WELL ORIGINALLY CONSTRUC  DATE OF LA RECONSTRUC  DEPTH TO T	TED  OT  ST  JOTION  WELL LOG AVA  Wes (attack)  OP OF SCREEN  OP OF SCREEN  OP OF SCREEN  OP OF SCREEN  OP OF SCREEN  OP OF SCREEN  OP OF SCREEN  OP OF SCREEN  OP OF SCREEN	06 07   MM DD
WELL-DRILLER'S NAME, COMPANY AND ADDRESS  Columbia Water  25188 - 52 and 5  Alder grove, BC  TYPE OF WELL  Adrilled dug dither (specify)  DEPT: 1 OF WELL  L9.6 m or ft.  WELL CAPACITY	METHOD TOTAL  DIAMETER OF WELL  O.406 m or  LOCATION OF WATER	OF DRILLING  OF DRILLING  TY X cable  Lool  I 6 in.  R-BEARING FRACTION	POSTA	CODE  TWI 16- DRILLER'S TELEPH  T) 657  jetted (sp. (sp. (sp. (sp. (sp. (sp. (sp. (sp.	ONE NO.  Occity)  tt.	DATE WELL ORIGINALLY CONSTRUC  DATE OF LA RECONSTRUC  DEPTH TO T	TED OTYTY  ST JOTION  WELL LOG AVA  Wes (attack OP OF SCREEN OP OF SCREEN OF M OF  ER-BEARING FRA L/s or	MM DD  ILABLE? th) no  ft.  CTION(S)  Igpm
WELL-DRILLER'S NAME, COMPANY AND ADIC COLUMBIA Water  25188 - 52 nd 5  Alder grove BC  TYPE OF WELL  Adrilled dug other (specify)  DEPT: 1 OF WELL  19.6 m or ft.  WELL CAPACITY  74 L/s or igp  WELLHEAD ENCLOSURE	METHOD rotal DIAMETER OF WELL  O.406 m or  LOCATION OF WATER	OF DRILLING  OF DRILLING  TY X cable  Lool  I 6 in.  R-BEARING FRACTION  SURF	POSTA	CODE  TWI 16- DRILLER'S TELEPH  T) 657  jetted (sp. (sp. (sp. (sp. (sp. (sp. (sp. (sp.	ONE NO.  Occity)  tt.	DATE WELL ORIGINALLY CONSTRUC  DATE OF LA RECONSTRUC  DEPTH TO T 24	TED OTYTY  ST JOTION  WELL LOG AVA  Wes (attack OP OF SCREEN OP OF SCREEN OF M OF  ER-BEARING FRA L/s or	06 07   MM DD
WELL-DRILLER'S NAME, COMPANY AND ADIC COLUMBIA Water  25188 - 52 nd 5  Alder grove BC  TYPE OF WELL  Adrilled dug other (specify)  DEPT: 1 OF WELL  19.6 m or ft.  WELL CAPACITY  74 L/s or igp  WELLHEAD ENCLOSURE	METHOD rotal DIAMETER OF WELL O.40 m or LOCATION OF WATER TOPER HOW WAS PUMPING	OF DRILLING  OF DRILLING  TY X cable  TO in.  R-BEARING FRACTION  SURF  groute	POSTA  WELL-  GEÓ  driven  SCREEN LEN  4.7  ON(S) (for bedi	CODE  TWI 16- DRILLER'S TELEPH  T) 657  jetted (sp. (sp. (sp. (sp. (sp. (sp. (sp. (sp.	ONE NO.  OPERIOR  It.  It.  It.	DATE WELL ORIGINALLY CONSTRUC  DATE OF LA RECONSTRUC  DEPTH TO T  24  ELD OF WAT	TED OTYTY  ST JOTION  WELL LOG AVA  Wes (attack OP OF SCREEN OP OF SCREEN OF M OF  ER-BEARING FRA L/s or	MM DD  ILABLE? th) no  ft.  CTION(S)  Igpm
WELL-DRILLER'S NAME, COMPANY AND ADIC COLUMBIA Water  25188 - 52 ad 5  Alder grove, BC  TYPE OF WELL Adrilled dug other (specify)  DEPT: 1 OF WELL  19.6 m or ft.  WELL CAPACITY  74 L/s or lgp  WELLHEAD ENCLOSURE pump house manhole of states.	METHOD rotal DIAMETER OF WELL O.40 m or LOCATION OF WATER TOPER HOW WAS PUMPING	OF DRILLING  OF DRILLING  TO Cable  Lool  I G in.  R-BEARING FRACTION  SURF  Groute  RATE DETERMINED	driven CACE SANITARY ed to So	CODE  TWI 16- DRILLER'S TELEPH  T) 657  jetted (sp. (sp. (sp. (sp. (sp. (sp. (sp. (sp.	ONE NO.  OPERIOR  It.  It.  It.	DATE WELL ORIGINALLY CONSTRUC  DATE OF LA RECONSTRUC  DEPTH TO T  24  ELD OF WAT	TED OF STATE OF STATE OF STATE OF STATE OF STATE OF STATE OF STATE OF STATE OF STATE OF STATE OF STATE OF STATE OF STATE OF STATE OF STATE OF STATE OF STATE OF STATE OF STATE OF STATE OF STATE OF STATE OF STATE OF STATE OF STATE OF STATE OF STATE OF STATE OF STATE OF STATE OF STATE OF STATE OF STATE OF STATE OF STATE OF STATE OF STATE OF STATE OF STATE OF STATE OF STATE OF STATE OF STATE OF STATE OF STATE OF STATE OF STATE OF STATE OF STATE OF STATE OF STATE OF STATE OF STATE OF STATE OF STATE OF STATE OF STATE OF STATE OF STATE OF STATE OF STATE OF STATE OF STATE OF STATE OF STATE OF STATE OF STATE OF STATE OF STATE OF STATE OF STATE OF STATE OF STATE OF STATE OF STATE OF STATE OF STATE OF STATE OF STATE OF STATE OF STATE OF STATE OF STATE OF STATE OF STATE OF STATE OF STATE OF STATE OF STATE OF STATE OF STATE OF STATE OF STATE OF STATE OF STATE OF STATE OF STATE OF STATE OF STATE OF STATE OF STATE OF STATE OF STATE OF STATE OF STATE OF STATE OF STATE OF STATE OF STATE OF STATE OF STATE OF STATE OF STATE OF STATE OF STATE OF STATE OF STATE OF STATE OF STATE OF STATE OF STATE OF STATE OF STATE OF STATE OF STATE OF STATE OF STATE OF STATE OF STATE OF STATE OF STATE OF STATE OF STATE OF STATE OF STATE OF STATE OF STATE OF STATE OF STATE OF STATE OF STATE OF STATE OF STATE OF STATE OF STATE OF STATE OF STATE OF STATE OF STATE OF STATE OF STATE OF STATE OF STATE OF STATE OF STATE OF STATE OF STATE OF STATE OF STATE OF STATE OF STATE OF STATE OF STATE OF STATE OF STATE OF STATE OF STATE OF STATE OF STATE OF STATE OF STATE OF STATE OF STATE OF STATE OF STATE OF STATE OF STATE OF STATE OF STATE OF STATE OF STATE OF STATE OF STATE OF STATE OF STATE OF STATE OF STATE OF STATE OF STATE OF STATE OF STATE OF STATE OF STATE OF STATE OF STATE OF STATE OF STATE OF STATE OF STATE OF STATE OF STATE OF STATE OF STATE OF STATE OF STATE OF STATE OF STATE OF STATE OF STATE OF STATE OF STATE OF STATE OF STATE OF STATE OF STATE OF STATE OF STATE OF STATE OF STATE OF STATE OF STATE OF STATE OF STATE OF STATE OF STATE OF STATE OF STATE	MM DD  ILABLE? th) no  ft.  CTION(S)  Igpm  itless adapter
WELL-DRILLER'S NAME, COMPANY AND ADI  Columbia Water  25188 - 52 ad 5  Alder grove, BC  TYPE OF WELL  Adrilled dug other (specify)  DEPT: 1 OF WELL  29.6 m or ft.  WELL CAPACITY  744 L/s or igp  WELLHEAD ENCLOSURE  pump house manhole of (s)  AVERAGE PUMPING RATE  L/s or igp  ANNUAL VOLUME OF WATER PUMPED	METHOD rotal  DIAMETER OF WELL  O.40 m or  LOCATION OF WATER  THOSE HOW WAS PUMPING	OF DRILLING  TY X cable  TO In.  R-BEARING FRACTION  RATE DETERMINED  PUMPED DETERMINED	POSTA  WELL-  WELL-  GEO  driven  SCREEN LEN  4.7  ON(S) (for bedi  FACE SANITARY  ed to 5.2  D?	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WELL-DRILLER'S NAME, COMPANY AND ADI  Columbia Water  25188 - 52 ad 5  Alder grove BC  TYPE OF WELL  Adrilled dug other (specify)  DEPT: 1 OF WELL  L'S or lgp  WELLHEAD ENCLOSURE  pump house manhole other  L'S or lgp  AVERAGE PUMPING RATE  L'S or lgp  ANNUAL VOLUME OF WATER PUMPED  L or lgal	DIAMETER OF WELL  O.406 m or  LOCATION OF WATER  HOW WAS PUMPING  HOW WAS VOLUME F	OF DRILLING  TY X cable  TO In.  R-BEARING FRACTION  RATE DETERMINED  PUMPED DETERMINED	POSTA  WELL-  WELL-  GEO  driven  SCREEN LEN  4.7  ON(S) (for bedi  FACE SANITARY  ed to 5.2  D?	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PART III	: HYDROGEO	DLOGIC IN	FORM	NOITAN	(Refer to	Steps	1 and 2	}	
DEPTH TO PUMPING WATER LEVEL	DEPTH TO NON-PUMP	PING WATER LEVE	L HOW	_	_	_			
m or ft.		r fi		well log	wetted tape	probe			
IF WELL IS FLOWING, WHAT IS THE ARTESIAN PRESSURE HEAD AND FLOW?	1		EASURED	? (specify)	IF SOURCE IS A				
ft.	manome	eter			yes (spec	cify)			Xno
WELLHEAD ELEVATION (height above mea	· I —				map (specify	scale r	other		
<u>69.0</u> m or	<del> '</del>		<del></del> -	pographic	and contour	interval) L	(specify)		
TYPE OF CONFINING LAYER FROM WELL LOG (e.g., day, till)	LOCATION OF CONFINI LAYER AT DEPTH FROM WELL LOG	#ING m or	CON	KNESS OF FINING LAYER I WELL LOG	3 23.8m or _		OW LATERALLY	YEXTENSIVE	E IS CONFINING
IS YOUR WELL ASSOCIATED NAME OF A WITH A KNOWN AQUIFER?  yes no	QUIFER				AQUIFER CLAS NUMBER (from			IFER CLASSI 1 MoELP)	FICATION
TYPE OF AQUIFER		RE THERE OTHER			yes		ANNUAL RAI	INFALL	
unconsolidated, unconsolidated unconfined unconfined	ed, bedrock (a)	VELLS, 30 L/s OR 5 agricultural, municipadustrial), LOCATED	pal and/or WITHIN	Ho A 300-m	ow many?		1.229	m or	in.
AQUIFER TRANSMISSIVITY		ADIUS OF THE CO SMISSIVITY DETE			<u> </u>				
276_ m²/d or Ig	pd/ft. from pu	umping test	from spe	cific capacity	other (spe	cify)			
HYDRAULIC GRADIENT		RAULIC GRADIENT	DETERM	NED?	<u>.</u>				
6%	from we	eli water levels [	from	opography	other (speci	(ty)			
1 HOW LONG HAS THE WATER SYSTEM  1 15 NOW  3 IN THIS TIME, HAVE THERE BEEN ANY WATER QUALITY PROBLEMS?	IV: ASSESSI BEEN IN EXISTENCE? FYES, WHEN AND WHAT WAS THE CAUSE OF THES REVIOUS PROBLEMS	MENT OF V	WATE	R QUAI	LITY (Refe	er to St	ep 1)		
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APPARENT (i.e., ta ON?  BACTERIAL yes yes	ste, colou	R QUAI  HAS YOUR W  yes — V  r, turbidity, other  AMINATIO  /E THERE BE  FABLISHED?	LITY (Reference of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second	DEEPENED,	CLEANED, NE	EW WELL CO	S PROBLEM?
PART  1 HOW LONG HAS THE WATER SYSTEM  1 1	IV: ASSESSIBEEN IN EXISTENCE?  EYES, WHEN AND WHAT AND THE CAUSE OF THES REVIOUS PROBLEMS .e., drought, pump failure lugging, increased usage interference, contamination NUTY CHANGES WERE A EFFECTS OF THIS ACTIC ST 3 YEARS DS?  CTERIOLOGICAL TRIBUTION SAMPLES	MENT OF V  SE  e, e, on)?  APPARENT (i.e., ta ON?  BACTERIAL  yes  yes  yes	Ste, colou	R QUAI  HAS YOUR W  yes — V  r, turbidity, other  AMINATIO  /E THERE BE  FABLISHED?	LITY (Reference of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second	DEEPENED,	CLEANED, NE	EW WELL CO	S PROBLEM?

SOURCE-SPECIFIC WATER QUALITY RECORDS (Refer to Step 1)

Please Indicate the occurrence of any test results in the last 10 years that meet the following conditions:

PARAMETER	RECURRING PROBLEMS	TEST RESULTS	EXCEEDENCES OF CDWQG 1
Bacteriological			
Total/Faecal Coliforms			
Background Heterotrophic			
plate counts			
Iron and Sulphate Reducers			
Disinfection by-products	•		
Bromodichloromethane			
Dibromochloromethane			
Chloroform			
			- <del></del> -
Physical Parameters			
pH, colour, alkalinity, specific			
conductance, hardness, total			
dissolved solids, total organic			
carbon, turbidity	<u> </u>		
inorganic Parameters			
Nitrates, fluoride, sulfate,			
sulphide, ammonia, chloride,			
nitrite, nitrogen (organic)			
· · ·			
Metals*	,		
Calcium, iron, magnesium,			
manganese, sodium			
_			

<sup>&</sup>lt;sup>1</sup> Canadian Drinking Water Quality Guidelines, 6th edition

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•	•	•	٠	•	•	•	•		•	•	•		•	•	
•	•	٠	•		•		٠	٠	:	•	•	٠	•	•	•
•	•	•	•	٠	•	•	•	•		•	•	٠	٠	•	٠
				•											
•	•	•	٠	•	•	•	•	٠	•	•	٠	•	•	•	•
	,	•							•	•	٠				
•	٠	•	•	•	•	•	•	•	•	•	•	•	•	•	٠

<sup>\*</sup>A metal scan is usually performed every 3 years at least, and includes aluminum, arsenic, barium, cadmium, chromium, copper, lead, molybdenum, nickel, phosphorus, silver and zinc.

PART V: WA	TER TREA	TMENT	INFORMA	TION (Re	fer to St	ep 1)
IS THIS SOURCE TREATED?   IF YES, TYPE OF TREATE	_				oth	nar
yes no disinfection	filtration	carbon filter	air stripper	water sof		pecify)
PURPOSE OF TREATMENT						
IF SOURCE IS CHLORINATED, Total Chlorine IS A CHLORINE RESIDUAL   MAINTAINED? PP	1	Chlorine ppm	WHAT IS THE	RESIDUAL LEVE	L OF TREATMEN	π?
IS THERE ANY WATER STORAGE IN THE SYSTEM?	yes [	no	IS THE WATER	R TREATMENT BE	FORE OR AFTE	R before after
WHAT IS THE TOTAL AND Total Chlorine	Free	Chlorine	IS THERE AN	Y ADDITIONAL	I Total C	hlorine Free Chlorine
FREE CHLORINE IN THE DISTRIBUTION SYSTEM?	m	ррт	THE SOURCE	DDED AFTER (rechlorination)?	<del></del>	ppm   ppr
WHAT TYPE OF CHEMICALS ARE USED IN THIS PROCES	SS? (specity)		WHERE ARE	CHEMICALS STO	RED?	· · · · · · · · · · · · · · · · · · ·
IS THERE PROPER STORAGE YES-	IN PUMP HOUSE,	HOW ARE CHE	EMICALS ISOLATI	ED FROM THE W	ELL?	
		<del></del>				1.15
PART VI: MAPPING THE C						L (Refer to Step 2)
A map (1:5000 to 1:20,000 are typical a Multiple wells in the same area can be	plotted on d	one map.	o complete	inis <b>se</b> ctioi	1.	
CIRCULAR CAPTURE ZONE (refer		1)	P#	RABOLIC CA	PTURE ZONE	(refer to Appendix 2.2)*
	RADIUS (m)		Downgradient distance	t 		fidth of apture zone
Arbitrary Fixed Radius	<del></del>		surface wat	ver, lake, pond, t er body within th		
(5-year travel time)*			boundary?			
O in the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second			treatment la	tormwater and/o agoon or holding ne of travel boun	pond located w	
PAR	r VII: SO	URCE SL	JRVEY (R	efer to St	ep 3)	
4 REGIONAL SOURCES OF RISK TO GROUND WATER						
Please indicate if any of the following poter	ntial sources	of contamin	ation within	the capture z	one.	
ACTIVITY	T.O.T. NOT SPECIFIED	1-YEAR	5-YEAR	10-YEAR		COMMENTS
Chemical Storage (specify)						
Injection wells			-			
Abandoned wells						
Landfills, dumps, disposal areas						
Commercial/industrial sites						
Known hazardous materials clean-up site		-				
Household hazardous waste						
Population density > 2 houses per hectare						
On-site sewage treatment					_	<u> </u>
Wastewater treatment facility						
Sites used for land application of waste						
Golf course						
Dairy or beef farms			ļ			
Poultry barns						
Hobby farms			1.			
Fields: vegetables, hay, fruit (specify)						
Mining operations						
Gravel pits						
** Mark and identify on map any of the potentia	ıl sources liste	d above whic	ch are located	within the car	oture zone bo	undary.
	SEPTIC FIELD		made COMM		OF ON-SITE SEV	VAGE DISPOSAL SYSTEMS
m or ft.  %	downgrad	ш.	grade COMMU	NITY SYSTEM		SYSTEM PER LOT
						<u></u>

Drillhole Number: W218

Well Tag No.: 14952

Project: Rainbow Park Production Well Construction

Location: Rainbow Park, Whistler, B.C.

Project Number: 2848

Logged By: Bob Franks / D.Tiplady Borehole Diameter: 406mm (16")

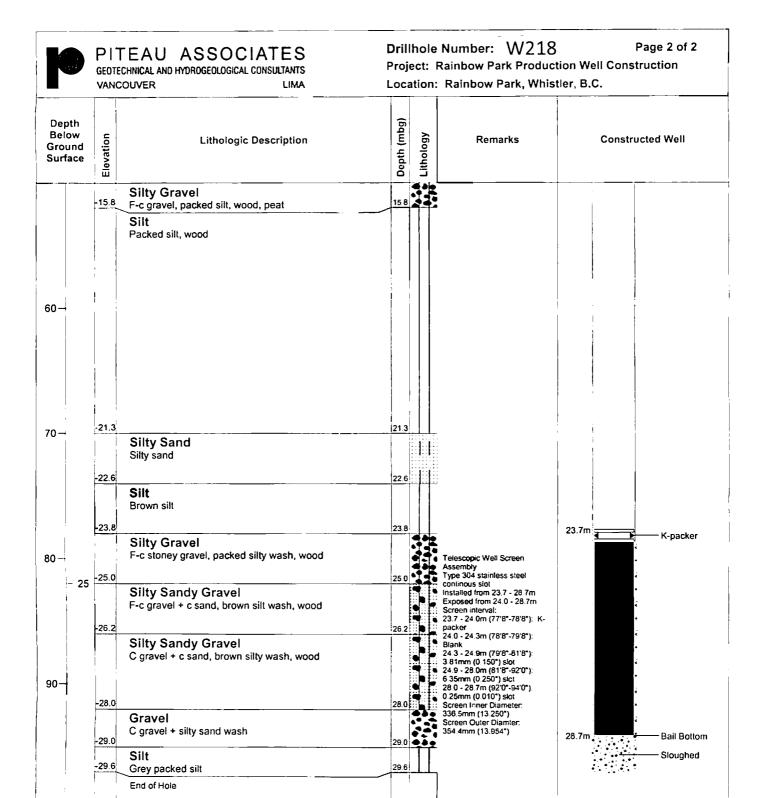
Client: Resort Municipality of Whistler
Coordinates: E N
Ground Elevation: 639m ASL (approx)

Elevation (maSL) Depth Below Remarks **Constructed Well** Lithologic Description Depth (mbg) Ground Lithology Surface -3 ft m Casing stick-up = 0.8 m - Welded Cap Plate **Ground Surface** Silty Sand 11 Brown silty sand, wood & peat Well flowing at > 6 L/s 7 -2.7 Bentonite Seal 32.37 Silty Peat 2 52 5 Lighter brown silty wash in peat, wood + stones 34 17 2 25 3 0.51m (20") Surface Casing installed to 5.5 mbgl (18"). Removed during installation of bentonite seal. 17-4 35 3 22. 15 1. 25. 3 34. 15. 2 25 3 406mm (16") **运** 拉 Steel casing, -8.2 27 wall thickness = Silty Sand 9.5mm (0.375°) Wood, silty sand + peat 10 10.4 10.4 Silty Sand -11.Q 11.0 Silty sand, f gravel, wood 37 -Gravel F-c gravel, silty wash, wood 13.4 Gravel F-c gravel, brown silt, wood 47-15.2

Drilling Contractor: Columbia Water Wells (1986) Ltd.

Drilling Method: Cable Tool
Drilling Started: May 18th, 2007
Drilling Ended: June 8th, 2007

Page 1 of 2



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