



Red lettering indicates minimum mandatory information. Requirements for flow reports are found in Part 5 of the Water Act, available at: http://www.env.gov.bc.ca/wsd/plan_protect_sustain/groundwater/index.html#leg.

Owner name: 554498 ONTARIO INC (DALE HOGG)
 Mailing address: 360 MOSES POINT RD Town N. SAANICH Prov. B.C. Postal Code V8L-5L9
 Well Location: Address: Street no. N/A Street name FAIRVIEW RD Town OLIVER
 or Legal description: Lot _____ Plan _____ D.L. _____ Block _____ Sec. _____ Twp. _____ Rg. _____ Land District _____
 or PID: _____ and Description of well location (attach sketch, if nec.): _____

NAD 83: Zone: _____ and UTM Easting: _____ m or Latitude: deg: 49° min: 10 sec: 22
 (Datum must be set to NAD83) UTM Northing: _____ m Longitude: deg: 119 min: 37 sec: 10

Ground elevation: _____ (ft) asl Method: GPS Differential GPS Level survey Other (specify): _____
 Class of well (see Table 1): WATER SUPPLY Sub-class of well: DOMESTIC
 Water supply wells: indicate intended water use private domestic water supply system irrigation commercial or industrial other (specify): _____

Pumping Test Summary Information

Type of well pump:
 Submersible Jet (end-suction)
 Vertical turbine Other (specify) _____
 Depth of pump setting: 220 ft (btoc)

Type of Pumping Test:
 Constant Rate Step Test Other (specify) _____
 Method of water level measurement:
 Water level sounder Datalogger Air line
 Wetted tape Other (specify) _____
 Reference datum for water level measurements:
 Top of casing Ground level Other (specify) _____
 Final stick-up: 36" in

Method of flow measurement:
 Flow meter Orifice 45-gallon drum 5-gallon pail
 Other (specify) BLANCETT

Start date of pumping test: 2011/10/12 (YYYY/MM/DD)
 Static water level: ARTISIAN ft
 Duration of pumping: 6 hrs Duration of recovery: 1 hrs
 Well yield estimated from pumping test: 70 USgpm
 Available drawdown: _____ ft Specific Capacity: _____ USgpm/ft

Method of estimating long-term well yield from pumping test:
 LONG TERM TEST IS REQUIRED TO GET AN ACCURATE FLOW RATE

Pumping test data sheet(s) attached:

Person conducting the pumping test (please print):
 Name (first, last): R. MICHAEL PEARCE
 Company name: VALUE CONTRACTING
 Registration number of person responsible*: WPI# 05080802
 Consultant (if applicable; please print): _____

* Fill in the registration of the Qualified Well Driller/Pump Installer. If the test was conducted by a driller/pump installer who is not registered, the Qualified Well Driller/Pump Installer who is directly supervising the work should fill in their registration number.

Declaration:
 The pumping test has been done in accordance with the requirements in the Water Act and the Ground Water Protection Regulation.

PLEASE NOTE: The data recorded in this pumping test report reflect conditions at the time of the test. Water levels, well performance, estimated long-term well yield and water quality are not guaranteed as they are influenced by a number of factors, including natural variability, human activities, and condition of the works, which may change over time.

Signature of Person Responsible: _____
 X _____

Note: Well reports submitted to the Deputy Comptroller, or retained by the person responsible, as required under the Water Act shall be considered part of Provincial Government records and are subject to the Freedom of Information and Protection of Privacy Act.

Return Completed Report and Data Sheets to:
Deputy Comptroller Ministry of Environment, Water Stewardship Division
Watershed & Aquifer Science Section
PO Box 9362 Stn Prov Govt Victoria BC
V8W 9M2

Questions? If you have any questions about the Water Act or this report form, please contact your local Ministry of Environment office.

white: Customer copy
canary: Driller copy
pink: Ministry copy

Diamond P. Holdings Ltd.,
 DBA Value Contracting
 PO Box 256
 Okanagan Falls, BC V0H 1R0
 Phone: 250-497-8284 Fax: 250-497-6533
 email: diamondp@vip.net

PUMP TEST RESULTS

OWNER'S NAME:	554498 Ontario Inc.	
LOCATION:	N 49 10'-22"/ W 119 37'-10" Well Tag # 34658 11/01	
DEPTH:	260'	
STATIC LEVEL:	Artesian	
TEST DONE BY:	Mike Pearce	
DATE OF TEST:	October 12, 2011	
TIME OF START UP:	9:00am	
TIME FROM START-UP		
	7-9'	75.75 USGPM
12 SECONDS		
35 SECONDS	9-7'	75.65 USGPM
1 MINUTE	10-75'	75.65 USGPM
2 MINUTES	12-2'	75.10 USGPM
4 MINUTES	14-0'	75.0 USGPM
6 MINUTES	17-0'	75.10 USGPM
8 MINUTES	18-4'	75.0 USGPM
10 MINUTES	18-72'	74.65 USGPM
12 MINUTES	18-96'	74.6 USGPM
14 MINUTES	19-0'	74.42 USGPM
16 MINUTES	19-47'	73.9 USGPM
18 MINUTES	19-86'	74.33 USGPM
20 MINUTES	20-02'	74.60 USGPM
25 MINUTES	20-45'	74.72 USGPM
30 MINUTES	20-47'	74.44 USGPM
35 MINUTES	20-8'	73.99 USGPM
40 MINUTES	21-22'	74.11 USGPM
41 MINUTES		
42 MINUTES		
43 MINUTES		
44 MINUTES		
45 MINUTES	21-72'	74.60 USGPM
46 MINUTES		
47 MINUTES		
48 MINUTES		
49 MINUTES		
50 MINUTES	22-72'	74.5 USGPM
55 MINUTES	23-61'	74.33 USGPM
60 MINUTES - 1 HOUR	24-41/2'	73.89 USGPM
75 MINUTES	27-0'	72.11 USGPM
90 MINUTES	32-44'	74.5 USGPM
105 MINUTES	34-98'	74.33 USGPM
120 MINUTES - 2 HOURS	33-42'	72.8 USGPM

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email: diamondp@vip.net

PUMP TEST RESULTS

150 MINUTES	36-80'	72.0 USGPM
180MINUTES – 3 HOURS	38-8'	71.80 USGPM
210 MINUTES	41-6'	70.6 USGPM
240 MINUTES/4 HOURS	44-5'	69.92 USGPM
270 MINUTES	45-1'	69.87 USGPM
300 MINUTES/5 HOURS	47-15'	70.0USGPM
360 MINUTES/6 HOURS	49-3'	70.09 USGPM

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PUMP TEST RECOVERY RESULTS

OWNER'S NAME:	554498 Ontario Inc. Well Tag # 34658	11/01
STATIC LEVEL:	Artesian	
TEST DONE BY:	Mike Pearce	
DATE OF TEST:	October 12, 2011	
TIME OF START UP 9:00am START OF RECOVERY: 3:00P.M.		
TIME FROM SHUTDOWN		DEPTH TO WATER
10 SECONDS	43'	
20 SECONDS	41-22'	
30 SECONDS	39-6'	
40 SECONDS	39-52'	
1 MINUTE	37-76'	
2 MINUTES	34-5'	
4 MINUTES	30-45'	
6 MINUTES	28-0'	
8 MINUTES	26-9'	
10 MINUTES	25-2'	
15 MINUTES	22-45'	
20 MINUTES	20-7'	
25 MINUTES	19-1'	
30 MINUTES	17-55'	
40 MINUTES	15-2'	
50 MINUTES	13-91'	
55 MINUTES		
60 MINUTES / 1 HOUR	12-55'	
75 MINUTES		
90 MINUTES		
105 MINUTES		
120 MINUTES / 2 HOURS		
150 MINUTES		
180 MINUTES / 3 HOURS		
210 MINUTES		
240 MINUTES / 4 HOURS		
270 MINUTES		
300 MINUTES / 5 HOURS		
330 MINUTES		
360 MINUTES / 6 HOURS		
390 MINUTES		
420 MINUTES / 7 HOURS		
450 MINUTES		
480 MINUTES / 8 HOURS		
540 MINUTES / 9 HOURS		
720 MINUTES / 12 HOURS		
1440 MINUTES / 24 HOURS		
2880 MINUTES / 48 HOURS		
3600 MINUTES / 60 HOURS		
4320 MINUTES / 72 HOURS		

CERTIFICATE OF ANALYSIS**CLIENT Value Contracting**P.O. Box 256
Okanagan Falls BC
V0H 1R0TEL 1-250-497-8284
FAX 1-250-497-6533**ATTENTION Heather Pearce****RECEIVED / TEMP** Oct-13-11 13:30 / 6.0 °C
REPORTED Oct-19-11
COC #(s) COC No#**WORK ORDER** K1J0469
PROJECT Comprehensive Analysis
PROJECT INFO 554498 Ontario Inc Well Tag#34658**General Comments:**

CARO Analytical Services employs methods which are based on those found in "Standard Methods for the Examination of Water and Wastewater", 21st Edition, 2005, published by the American Public Health Association (APHA); US EPA protocols found in "Test Methods for Evaluating Solid Waste, Physical/Chemical Methods, SW846", 3rd Edition; protocols published by the British Columbia Ministry of Environment (BCMEOE); and/or CCME Canada-wide Standard Reference methods.

Methods not described in these publications are conducted according to procedures accepted by appropriate regulatory agencies, and/or are done in accordance with recognized professional standards using accepted testing methodologies and quality control efforts except where otherwise agreed to by the client.

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety. CARO is not responsible for any loss or damage resulting directly or indirectly from error or omission in the conduct of testing. Liability is limited to the cost of analysis. Samples will be disposed of 30 days after the test report has been issued unless otherwise agreed to in writing.

- All solids results are reported on a dry weight basis unless otherwise noted
- Units: mg/kg = milligrams per kilogram, equivalent to parts per million (ppm)
mg/L = milligrams per litre, equivalent to parts per million (ppm)
ug/L = micrograms per litre, equivalent to parts per billion (ppb)
ug/g = micrograms per gram, equivalent to parts per million (ppm)
ug/m3 = micrograms per cubic meter of air
- "RDL" Reported detection limit
- "<" Less than reported detection limit
- "AO" Aesthetic objective
- "MAC" Maximum acceptable concentration (health-related guideline)
- "LAB" RMD = Richmond location, KEL = Kelowna location, EDM = Edmonton location, SUB = Subcontracted

Please contact CARO if more information is needed or to provide feedback on our services.

CARO Analytical ServicesFinal Review Per: **Sarah Speier, B.Sc. For Jennifer Shanko, ASCT**
Administration Coordinator**CARO Analytical Services**#120 12791 Clarke Place
Richmond, BC V6V 2H9
Tel: 604-279-1499 Fax: 604-279-1599#102 3677 Highway 97N
Kelowna, BC V1X 5C3
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www.caro.ca

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SAMPLE DATA



CLIENT Value Contracting
PROJECT Comprehensive Analysis

WORK ORDER # K110469
REPORTED Oct-19-11

Analyte	Result	Canadian DW Guideline (Dec 10)	RDL Units	Prepared	Analyzed	Notes
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General Parameters

554498 Ontario Inc. Well Tag #34658 (K1J0469-01) Matrix: Water Sampled: Oct-12-11 15:30

Alkalinity, Total as CaCO3	338		1.0 mg/L	Oct-14-11	Oct-14-11	
Chloride	0.76	AO ≤ 250	0.10 mg/L	Oct-14-11	Oct-15-11	
Colour, True	< 5	AO ≤ 15	5 Color Unit	Oct-14-11	Oct-19-11	
Conductivity (EC)	691		2 uS/cm	Oct-14-11	Oct-14-11	
Cyanide (total)	< 0.01	MAC = 0.2	0.01 mg/L	Oct-13-11	Oct-17-11	
Fluoride	0.10	MAC = 1.5	0.10 mg/L	Oct-14-11	Oct-15-11	
Hardness, Total (Total as CaCO3)	408		5.41 mg/L	Oct-16-11	Oct-17-11	
Nitrogen, Nitrate as N	< 0.010	MAC = 10	0.010 mg/L	Oct-14-11	Oct-15-11	
Nitrogen, Nitrite as N	< 0.01	MAC = 1	0.01 mg/L	Oct-14-11	Oct-15-11	
pH	7.62	AO = 6.5 - 8.5	0.01 pH Units	Oct-14-11	Oct-14-11	
Solids, Total Dissolved	455	AO ≤ 500	5 mg/L	Oct-19-11	Oct-19-11	
Sulfate	89.1	AO ≤ 500	1.0 mg/L	Oct-14-11	Oct-15-11	
Turbidity	1.1	Varies, See Guidelines	0.1 NTU	Oct-14-11	Oct-17-11	
UV Transmittance @ 254nm	97.1		0.1 %	Oct-17-11	Oct-19-11	

Total Recoverable Metals by ICPMS

554498 Ontario Inc. Well Tag #34658 (K1J0469-01) Matrix: Water Sampled: Oct-12-11 15:30

Aluminum	< 0.050	AO ≤ 0.1	0.050 mg/L	Oct-16-11	Oct-17-11	
Antimony	< 0.0010	MAC = 0.006	0.0010 mg/L	Oct-16-11	Oct-17-11	
Arsenic	< 0.0050	MAC = 0.01	0.0050 mg/L	Oct-16-11	Oct-17-11	
Barium	< 0.050	MAC = 1	0.050 mg/L	Oct-16-11	Oct-17-11	
Beryllium	< 0.0010		0.0010 mg/L	Oct-16-11	Oct-17-11	
Boron	< 0.040	MAC = 5	0.040 mg/L	Oct-16-11	Oct-17-11	
Cadmium	0.00034	MAC = 0.005	0.00010 mg/L	Oct-16-11	Oct-17-11	
Calcium	134		2.0 mg/L	Oct-16-11	Oct-17-11	
Chromium	< 0.0050	MAC = 0.05	0.0050 mg/L	Oct-16-11	Oct-17-11	
Cobalt	< 0.00050		0.00050 mg/L	Oct-16-11	Oct-17-11	
Copper	< 0.0020	AO ≤ 1	0.0020 mg/L	Oct-16-11	Oct-17-11	
Iron	0.16	AO ≤ 0.3	0.10 mg/L	Oct-16-11	Oct-17-11	
Lead	< 0.0010	MAC = 0.01	0.0010 mg/L	Oct-16-11	Oct-17-11	
Magnesium	18.2		0.10 mg/L	Oct-16-11	Oct-17-11	
Manganese	0.0291	AO ≤ 0.05	0.0020 mg/L	Oct-16-11	Oct-17-11	
Mercury	< 0.00020	MAC = 0.001	0.00020 mg/L	Oct-16-11	Oct-17-11	
Molybdenum	0.0088		0.0010 mg/L	Oct-16-11	Oct-17-11	
Nickel	< 0.0020		0.0020 mg/L	Oct-16-11	Oct-17-11	
Phosphorus	< 0.20		0.20 mg/L	Oct-16-11	Oct-17-11	
Potassium	1.79		0.20 mg/L	Oct-16-11	Oct-17-11	
Selenium	< 0.0050	MAC = 0.01	0.0050 mg/L	Oct-16-11	Oct-17-11	
Silicon	8.8		5.0 mg/L	Oct-16-11	Oct-17-11	
Silver	< 0.00050		0.00050 mg/L	Oct-16-11	Oct-17-11	
Sodium	8.43	AO ≤ 200	0.20 mg/L	Oct-16-11	Oct-17-11	
Uranium	0.00693	MAC = 0.02	0.00020 mg/L	Oct-16-11	Oct-17-11	
Vanadium	< 0.010		0.010 mg/L	Oct-16-11	Oct-17-11	
Zinc	< 0.040	AO ≤ 5	0.040 mg/L	Oct-16-11	Oct-17-11	

SAMPLE DATA



CLIENT Value Contracting
PROJECT Comprehensive Analysis

WORK ORDER # K1J0469
REPORTED Oct-19-11

Analyte	Result	Canadian DW Guideline (Dec 10)	RDL Units	Prepared	Analyzed	Notes
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Microbiological Parameters

554498 Ontario Inc. Well Tag #34658 (K1J0469-01) Matrix: Water Sampled: Oct-12-11 15:30

Coliforms, Total	< 1	MAC < 1	1 CFU/100mL	Oct-13-11	Oct-14-11	
Background Colonies	> 200		200 CFU/100mL	Oct-13-11	Oct-14-11	
E. coli	< 1	MAC < 1	1 CFU/100mL	Oct-13-11	Oct-14-11	

ANALYSIS / REPORT INFORMATION



CLIENT Value Contracting
PROJECT Comprehensive Analysis

WORK ORDER # K1J0469
REPORTED Oct-19-11

Analysis Description	Method Reference(s) (* = modified from)		LAB
	Preparation	Analysis	
Alkalinity, total	N/A	APHA 2320 B *	KEL
Chloride by IC	N/A	APHA 4110 B	KEL
True Colour	N/A	APHA 2120 B	KEL
Conductivity-Water	N/A	APHA 2510 B	KEL
Cyanide, Total	APHA 4500-CN C	APHA 4500-CN E	KEL
Fluoride by IC	N/A	APHA 4110 B	KFL
Nitrate by IC	N/A	APHA 4110 B	KEL
Nitrite by IC	N/A	APHA 4110 B	KEL
pH	N/A	APHA 4500-H+ B	KEL
Total Dissolved Solids (180C)- CALC.	N/A	APHA 2540 C	KEL
Sulfate by IC	N/A	APHA 4110 B	KEL
UV Transmittance at 254nm	N/A	APHA 5910 B	KEL
Turbidity	N/A	APHA 2130 B	KFL
Total Coliforms (Membrane Filtration)	NA	APHA 9222 *	KEL
E. coli (MF)	NA	APHA 9222 *	KEL
Total Recoverable Metals by ICPMS	EPA 200.2 *	EPA 6020A	RMD