

Date: 24-SEP-19 PO No.: 1517879 WO No.: L2348216 LSD: Project Ref: JOHN OLIVER SECONDARY Sample ID: RM 149 FS Sampled By: Robin Lenay Date Collected: 16-SEP-19 Lab Sample ID: L2348216-1 Matrix: Water

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Test Description	Result	Qualifier	Units of Measure	CDWQG MAC	Aesthetic Objective	Date Analyzed
Total Metals Lead (Pb)-Total	0.000175		mg/L	0.005		19-SEP-1
DWQG = Health Canada Guideline Limits updated CDWQG for Nitrate+Nitrite-N is the limit for nitrate only Turbidity guideline based on membrane filtration. For summary Table of Guidelines for Canadian Drinking Wa A blank entry designates no known limit. A shaded value in the Results column exceeds CDWQ	guidelines on cor iter Quality	ventional treatm	ent and slow sand	N.D. = less than de or diatomaceous e	tection limit. arth filtration plea	ase see
Approved by Edward Ngai Account Manager						

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Date: 24-SEP-19 PO No.: 1517879 WO No.: L2348216 LSD: Project Ref: JOHN OLIVER SECONDARY Sample ID: RM 153 DF Sampled By: Robin Lenay Date Collected: 16-SEP-19 Lab Sample ID: L2348216-2 Matrix: Water

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ATTN: Stephen Thomas						
Test Description	Result	Qualifier	Units of Measure	CDWQG MAC	Aesthetic Objective	Date Analyzed
Total Metals Lead (Pb)-Total	0.000384		mg/L	0.005		19-SEP-1
CDWQG = Health Canada Guideline Limits updated	JUNE 2019					
* CDWQG for Nitrate+Nitrite-N is the limit for nitrate only * Turbidity guideline based on membrane filtration. For Summary Table of Guidelines for Canadian Drinking Wa - A blank entry designates no known limit. - A shaded value in the Results column exceeds CDWQ	guidelines on cor iter Quality	ventional treatm	ent and slow sand	N.D. = less than de d or diatomaceous e	tection limit. arth filtration plea	se see
Approved by Edward Ngai Account Manager						

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Date: 24-SEP-19 PO No.: 1517879 WO No.: L2348216 LSD: Project Ref: JOHN OLIVER SECONDARY Sample ID: RM 248 DF Sampled By: Robin Lenay Date Collected: 16-SEP-19 Lab Sample ID: L2348216-3 Matrix: Water

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Total Metals Lead (Pb)-Total DWQG = Health Canada Guideline Limits updated CDWQG for Nitrate+Nitrite-N is the limit for nitrate on Turbidity guideline based on membrane filtration. Fo Immary Table of Guidelines for Canadian Drinking W A blank entry designates no known limit. A shaded value in the Results column exceeds CDW	ly. If present as N guidelines on cor ater Quality	litrate then the linventional treatm	mg/L mit is 10mg/L < or rent and slow sand	0.005 N.D. = less than de or diatomaceous e	tection limit.	19-SEP-1
CDWQG for Nitrate+Nitrite-N is the limit for nitrate on urbidity guideline based on membrane filtration. Fo immary Table of Guidelines for Canadian Drinking W blank entry designates no known limit.	ly. If present as N guidelines on cor ater Quality	litrate then the lin	mit is 10mg/L < or lent and slow sand	N.D. = less than de or diatomaceous e	tection limit.	
Turbidity guideline based on membrane filtration. Fo Immary Table of Guidelines for Canadian Drinking W A blank entry designates no known limit.	guidelines on cor ater Quality	litrate then the lin ventional treatm	nit is 10mg/L < or ent and slow sand	N.D. = less than de or diatomaceous e	tection limit.	
		esthetic Objecti	ve.		arth filtration plea	se see
pproved by						
Account Manager						

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Date: 24-SEP-19 PO No.: 1517879 WO No.: L2348216 LSD: Project Ref: JOHN OLIVER SECONDARY Sample ID: RM 239 DF Sampled By: Robin Lenay Date Collected: 16-SEP-19 Lab Sample ID: L2348216-4 Matrix: Water

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Test Description	Result	Qualifier	Units of Measure	CDWQG MAC	Aesthetic Objective	Date Analyze
Total Metals Lead (Pb)-Total	0.000281		mg/L	0.005		19-SEP-1
CDWQG = Health Canada Guideline Limits updated	JUNE 2019					
CDWQG for Nitrate+Nitrite-N is the limit for nitrate only Turbidity guideline based on membrane filtration. For Summary Table of Guidelines for Canadian Drinking Wa A blank entry designates no known limit. A shaded value in the Results column exceeds CDWQ	guidelines on cor iter Quality	ventional treatm	ent and slow sand	N.D. = less than de d or diatomaceous e	ection limit. arth filtration plea	se see
Approved by Edward Ngai Account Manager						

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Date: 24-SEP-19 PO No.: 1517879 WO No.: L2348216 LSD: Project Ref: JOHN OLIVER SECONDARY Sample ID: RM 217A DF Sampled By: Robin Lenay Date Collected: 16-SEP-19 Lab Sample ID: L2348216-5 Matrix: Water

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ATTN: Stephen Thomas						
Test Description	Result	Qualifier	Units of Measure	CDWQG MAC	Aesthetic Objective	Date Analyzed
Total Metals Lead (Pb)-Total	0.000450		mg/L	0.005		19-SEP-1
CDWQG = Health Canada Guideline Limits updated	JUNE 2019					
 * CDWQG for Nitrate+Nitrite-N is the limit for nitrate only * Turbidity guideline based on membrane filtration. For Summary Table of Guidelines for Canadian Drinking Wa - A blank entry designates no known limit. - A shaded value in the Results column exceeds CDWG 	guidelines on cor ater Quality	ventional treatm	ent and slow sand	N.D. = less than de or diatomaceous e	tection limit. arth filtration plea	se see
Approved by Edward Ngai Account Manager						

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Date: 24-SEP-19 PO No.: 1517879 WO No.: L2348216 LSD: Project Ref: JOHN OLIVER SECONDARY Sample ID: RM 315 DF Sampled By: Robin Lenay Date Collected: 16-SEP-19 Lab Sample ID: L2348216-6 Matrix: Water

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Test Description	Result	Qualifier	Units of Measure	CDWQG MAC	Aesthetic Objective	Date Analyzed
Total Metals Lead (Pb)-Total	0.000321		mg/L	0.005		19-SEP-1
DWQG = Health Canada Guideline Limits updated	JUNE 2019					
CDWQG for Nitrate+Nitrite-N is the limit for nitrate only Furbidity guideline based on membrane filtration. For ummary Table of Guidelines for Canadian Drinking Wa A blank entry designates no known limit. A shaded value in the Results column exceeds CDWC	guidelines on cor ater Quality	ventional treatm	ent and slow sand	N.D. = less than de l or diatomaceous e	tection limit. arth filtration plea	se see
Approved by Edward Ngai Account Manager						

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Date: 24-SEP-19 PO No.: 1517879 WO No.: L2348216 LSD: Project Ref: JOHN OLIVER SECONDARY Sample ID: RM 309 DF Sampled By: Robin Lenay Date Collected: 16-SEP-19 Lab Sample ID: L2348216-7 Matrix: Water

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ATTN: Stephen Thomas						
Test Description	Result	Qualifier	Units of Measure	CDWQG MAC	Aesthetic Objective	Date Analyze
Total Metals Lead (Pb)-Total	0.000408		mg/L	0.005		19-SEP-′
CDWQG = Health Canada Guideline Limits updated CDWQG for Nitrate+Nitrite-N is the limit for nitrate only Turbidity guideline based on membrane filtration. For Summary Table of Guidelines for Canadian Drinking Wa A blank entry designates no known limit. A shaded value in the Results column exceeds CDWC	guidelines on cor iter Quality	ventional treatm	ent and slow sand	N.D. = less than de t or diatomaceous e	tection limit. arth filtration plea	se see
Approved by Edward Ngai Account Manager						

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Date: 24-SEP-19 PO No.: 1517879 WO No.: L2348216 LSD: Project Ref: JOHN OLIVER SECONDARY Sample ID: RM 303 SSDF Sampled By: Robin Lenay Date Collected: 16-SEP-19 Lab Sample ID: L2348216-8 Matrix: Water

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ATTN: Stephen Thomas		0	Units of	CDWQG	Aesthetic	Date
Test Description	Result	Qualifier	Measure	MAC	Objective	Analyze
Total Metals Lead (Pb)-Total	0.000385		mg/L	0.005		19-SEP-
CDWQG = Health Canada Guideline Limits updated	JUNE 2019					
 * CDWQG for Nitrate+Nitrite-N is the limit for nitrate only * Turbidity guideline based on membrane filtration. For Summary Table of Guidelines for Canadian Drinking Wa - A blank entry designates no known limit. - A shaded value in the Results column exceeds CDWQ 	guidelines on con iter Quality	ventional treatm	ent and slow sand	N.D. = less than de l or diatomaceous e	tection limit. arth filtration plea	ise see
Approved by Edward Ngai Account Manager						

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Date: 24-SEP-19 PO No.: 1517879 WO No.: L2348216 LSD: Project Ref: JOHN OLIVER SECONDARY Sample ID: RM 109 DF Sampled By: Robin Lenay Date Collected: 16-SEP-19 Lab Sample ID: L2348216-9 Matrix: Water

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ATTN: Stephen Thomas						
Test Description	Result	Qualifier	Units of Measure	CDWQG MAC	Aesthetic Objective	Date Analyze
Total Metals Lead (Pb)-Total	0.000331		mg/L	0.005		19-SEP-
CDWQG = Health Canada Guideline Limits updated CDWQG for Nitrate+Nitrite-N is the limit for nitrate only Turbidity guideline based on membrane filtration. For Summary Table of Guidelines for Canadian Drinking Wa A blank entry designates no known limit. A shaded value in the Results column exceeds CDWQ	guidelines on cor iter Quality	ventional treatm	ent and slow sand	N.D. = less than de l or diatomaceous e	tection limit. arth filtration plea	se see
Approved by Edward Ngai Account Manager						

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Test Description	Result	Qualifier	Units of Measure	CDWQG MAC	Aesthetic Objective	Date Analyzed
Total Metals Lead (Pb)-Total	0.00526		mg/L	0.005		19-SEP-19
CDWQG = Health Canada Guideline Limits updated	JUNE 2019					
 * CDWQG for Nitrate+Nitrite-N is the limit for nitrate only * Turbidity guideline based on membrane filtration. For Summary Table of Guidelines for Canadian Drinking Wa - A blank entry designates no known limit. - A shaded value in the Results column exceeds CDWC 	guidelines on cor iter Quality	ventional treatm	ent and slow sand	N.D. = less than de or diatomaceous e	tection limit. arth filtration plea	se see
Approved by Edward Ngai Account Manager						
ADDRESS: 8081 Lougheed Hwy. Suite 1				E2.4400.15		

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Date: 24-SEP-19 PO No.: 1517879 WO No.: L2348216 LSD: Project Ref: JOHN OLIVER SECONDARY Sample ID: RM 132 DF Sampled By: Robin Lenay Date Collected: 16-SEP-19 Lab Sample ID: L2348216-11 Matrix: Water

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Test Description	Result	Qualifier	Units of Measure	CDWQG MAC	Aesthetic Objective	Date Analyze
Total Metals Lead (Pb)-Total	0.00130		mg/L	0.005		19-SEP-
DWQG = Health Canada Guideline Limits updated	JUNE 2019					
CDWQG for Nitrate+Nitrite-N is the limit for nitrate only Turbidity guideline based on membrane filtration. For ummary Table of Guidelines for Canadian Drinking Wa A blank entry designates no known limit. A shaded value in the Results column exceeds CDWC	guidelines on cor iter Quality	ventional treatm	ent and slow sand	N.D. = less than de l or diatomaceous e	tection limit. arth filtration plea	se see
Approved by						
Edward Ngai Account Manager						

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Date: 24-SEP-19 PO No.: 1517879 WO No.: L2348216 LSD: Project Ref: JOHN OLIVER SECONDARY Sample ID: RM 123 SSDF Sampled By: Robin Lenay Date Collected: 16-SEP-19 Lab Sample ID: L2348216-12 Matrix: Water

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Test Description	Result	Qualifier	Units of Measure	CDWQG MAC	Aesthetic Objective	Date Analyze
Total Metals Lead (Pb)-Total	0.000972		mg/L	0.005		19-SEP-
DWQG = Health Canada Guideline Limits updated	JUNE 2019					
CDWQG for Nitrate+Nitrite-N is the limit for nitrate only Turbidity guideline based on membrane filtration. For ummary Table of Guidelines for Canadian Drinking Wa A blank entry designates no known limit. A shaded value in the Results column exceeds CDWC	guidelines on cor ater Quality	ventional treatm	ent and slow sand	N.D. = less than de l or diatomaceous e	tection limit. arth filtration plea	ase see
Approved by	·					
Edward Ngai Account Manager						

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Date: 24-SEP-19 PO No.: 1517879 WO No.: L2348216 LSD: Project Ref: JOHN OLIVER SECONDARY Sample ID: RM 115 BUB Sampled By: Robin Lenay Date Collected: 16-SEP-19 Lab Sample ID: L2348216-13 Matrix: Water

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Test Description	Result	Qualifier	Units of Measure	CDWQG MAC	Aesthetic Objective	Date Analyze
Total Metals Lead (Pb)-Total	0.000377		mg/L	0.005		19-SEP-
DWQG = Health Canada Guideline Limits updated CDWQG for Nitrate+Nitrite-N is the limit for nitrate only Furbidity guideline based on membrane filtration. For ummary Table of Guidelines for Canadian Drinking Wa A blank entry designates no known limit. A shaded value in the Results column exceeds CDWQ	guidelines on cor ter Quality	ventional treatm	ent and slow sand	N.D. = less than de l or diatomaceous e	tection limit. arth filtration plea	se see
Approved by Edward Ngai Account Manager						

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Date: 24-SEP-19 PO No.: 1517879 WO No.: L2348216 LSD: Project Ref: JOHN OLIVER SECONDARY Sample ID: RM 114 BUB Sampled By: Robin Lenay Date Collected: 16-SEP-19 Lab Sample ID: L2348216-14 Matrix: Water

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Test Description	Result	Qualifier	Units of Measure	CDWQG MAC	Aesthetic Objective	Date Analyze
Total Metals Lead (Pb)-Total	0.00335		mg/L	0.005		19-SEP-
DWQG = Health Canada Guideline Limits updated	JUNE 2019					
CDWQG for Nitrate+Nitrite-N is the limit for nitrate only Furbidity guideline based on membrane filtration. For ummary Table of Guidelines for Canadian Drinking Wa A blank entry designates no known limit. A shaded value in the Results column exceeds CDWQ	guidelines on cor iter Quality	ventional treatm	ent and slow sand	N.D. = less than de or diatomaceous e	ection limit. arth filtration plea	ise see
Approved by Edward Ngai Account Manager						

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Date: 24-SEP-19 PO No.: 1517879 WO No.: L2348216 LSD: Project Ref: JOHN OLIVER SECONDARY Sample ID: RM 157 DF Sampled By: Robin Lenay Date Collected: 16-SEP-19 Lab Sample ID: L2348216-15 Matrix: Water

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Test Description	Result	Qualifier	Units of Measure	CDWQG MAC	Aesthetic Objective	Date Analyze
Total Metals Lead (Pb)-Total	0.000128		mg/L	0.005		19-SEP-1
WQG = Health Canada Guideline Limits updated	JUNE 2019					
CDWQG for Nitrate+Nitrite-N is the limit for nitrate only Furbidity guideline based on membrane filtration. For ummary Table of Guidelines for Canadian Drinking Wa A blank entry designates no known limit. A shaded value in the Results column exceeds CDWC	guidelines on cor ater Quality	ventional treatm	ent and slow sand	N.D. = less than de or diatomaceous e	ection limit. arth filtration plea	se see
Approved by Edward Ngai Account Manager	· 					

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L2348216 CONTD.... PAGE 16 of 16

Guidelines & Objectives

Health Canada MAC Health Related Criteria Limits

Nitrate/Nitrite-N*	Criteria limit is 10 mg/L (1.0 mg/L if present as all Nitrite-N). High concentrations may contribute to blue baby syndrome in infants.
Lead*	A cumulative body poison, uncommon in naturally occurring hard waters.
Fluoride*	Present in fluoridated water supplies at 0.8 mg/L to reduce dental caries. Elevated levels causes fluorosis (mottling of teeth).
Total Coliforms*	Criteria is 0 CFU/100mL. Adverse health effects.
E. Coli*	Criteria is 0 CFU/100 mL. Certain E. Coli bacteria can be life threatening.
Manganese*	Criteria limit is 0.12 mg/L. Possible neurological effects in infants.

*Health Canada Canadian Drinking Water Quality Guidelines (MAC limit)

Aesthetic Objective Conce	entration Levels
Alkalinity	Acid neutralizing capacity. Usually a measure of carbonate and bicarbonates and calculated and reported as calcium carbonate.
Balance	Quality control parameter ratioing cations to anions
Bicarbonate	See Alkalinity. Report as the anion HCO3-1
Carbonate	See Alkalinity. Reported at the anion CO3-2
Calcium	See Hardness. Common major cation of water chemistry.
Chloride	Common major anion of water chemistry.
Conductance	Physical test measuring water salinity (dissolved ions or solids)
Hardness	Classical measure or capacity of water to precipitate soap (chiefly calcium and magnesium ions). Causes scaling tendency in water if carbonates/bicarbonates are present (if >200 mg/L). For drinking water purposes waters with results <200 mg/L are considered acceptable, results >200 mg/L are considered poor but can be tolerated. Results >500 mg/L are unacceptable.
Hydroxide	See alkalinity
Magnesium	See hardness. Common major cation of water chemistry. Elevated levels (>125 mg/L) may exert a cathartic or diuretic action.
рН	Measure of water acidity/alkalinity. Normal range is 7.0-8.5.
Potassium	Common major cation of water chemistry.
Sodium	Common major cation of water chemistry. Measure of salinity (saltiness).
Sulphate	Common major anion of water chemistry. Elevated levels may exert a cathartic or diuretic action.
Total Dissolved Solids	A measure of water salinity.
Iron Heterotrophic	Causes staining to laundry and porcelain and astringent taste. Oxidizes to red-brown precipitate on exposure to air.
Plate Count	Criteria is 500 cfu/mL Measure of heterotrophic bacteria present.

GLOSSARY OF REPORT TERMS

Surrogates are compounds that are similar in behaviour to target analyte(s), but that do not normally occur in environmental samples. For applicable tests, surrogates are added to samples prior to analysis as a check on recovery. In reports that display the D.L. column, laboratory objectives for surrogates are listed there.

mg/kg - milligrams per kilogram based on dry weight of sample

mg/kg wwt - milligrams per kilogram based on wet weight of sample

mg/kg lwt - milligrams per kilogram based on lipid-adjusted weight

mg/L - unit of concentration based on volume, parts per million.

< - Less than.

D.L. - The reporting limit.

N/A - Result not available. Refer to qualifier code and definition for explanation.

Test results reported relate only to the samples as received by the laboratory. UNLESS OTHERWISE STATED, ALL SAMPLES WERE RECEIVED IN ACCEPTABLE CONDITION. Analytical results in unsigned test reports with the DRAFT watermark are subject to change, pending final QC review.



Chain of Custody (COC) / Analytical Request Form



1

COC Number: 17 - 762139

Canada	Toll	Free:	1	800	668	9878

	www.aisglobai.com									· •									
Report To	Contact and company name below will appear	on the final report	af report Report Format / Distribution					Select Service Level Below - Contact your AM to confirm all E&P TATs (surcharges may apply)											
Company:	Varcouver School F	Joand	OG Select Report Format: PDF EXCEL EDD (DIGITAL)					Regular [R] 🖉 Standard TAT if received by 3 pm - business days - no surcharges apply											
Contact:	Stephen Thomas	•	Quality Control (QC) Report with Report SES NO				, E a	🚡 4 day [P4-20%] 🕴 🕴 1 Business day [E - 100%]											
Phone:	604 - 713 - 5637		Compare Resul	its to Criteria on Report - J	provide details below if	box checked	TINON	3 day [P	3-25%]		AERO	Same Da	y, Weeke	nd or Sta	atutory h	oliday [E2	2 -200%	_	
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REFER TO BACK PAGE FOR ALS LOCATIONS AND SAMPLING INFORMATION WHITE - LABORATORY COPY YELLOW						<u>+</u> W - CLIEF	NT COPY		<u>`</u>				· _		<u> </u>	J	E 2018 FROM		

1. If any water samples are taken from a Regulated Drinking Water (DW) System, please submit using an Authorized DW COC form.



Chain of Custody (COC) / Analytical Request Form



COC Number: 17 - 762140

Page 2 of 2

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Report To	Contact and company name below will appe	ar on the final report	Report Format / Distribution					Select Service Level Below - Contact your AM to confirm all E&P TATs (surcharges may apply)													
Company:		Board	Select Report Format: YZ PDF EXCEL EDD (DIGITAL)					Regular [R] Standard TAT if received by 3 pm - business days - no surcharges apply													
Contact:	Stephen Thomas		Quality Control	Quality Control (QC) Report with Report					[P4-2	20%]		NCY	1 Bu	siness	day [E -	100%]		,	,		T
Phone:	604-713-5637	•	Compare Res	sults to Criteria on Report -			ECIRIT THESE	3 day	[P3-2	25%]		ERG!	Same	Day, V	Neekend	l or Sta	atutory	holiday	(E2 -200%	6	
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Street:	1549 Clark 1	Dr.	Email 1 or Fax	ssthoma	s@vsb.	be ca		Date a	nd Time	Require	d for all E	&P TATe	;			do	i-mmm	-yy hh:m	m		
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	Project Information		-	Oil and Gas Require	d Fields (client u	se)	1 P			.										-	cial
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Drinkin	g Water (DW) Samples ¹ (client use)	Special Instructions /		add on report by clic actronic COC only)	king on the drop-d	own list below		SAMPLE CONDIT							_						
Are samples take	n from a Regulated DW System?	• •			· · · ·		Froze				г		Observa		Yes				¥o No		l T
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	uman consumption/ use?	10 pres	er va u	ives a	ooeo						TEMPEO	ATHORS	9 7	<u> </u>		CINA			ATURES *C		
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⊢ ── <u>'</u> ''	SHIPMENT RELEASE (client use)			INITIAL SHIPMEN	T RECEPTION (ah usa onivi	1					EIN			RECEP				<u> </u>		
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L										-	I.	14					11	16		1 pr	÷
REFER TO BACK	PAGE FOR ALS LOCATIONS AND SAMPLING INF	ORMATION		WHI	ITE - LABORATORY	COPY YELLO	W - CLI	ENT CO	PY								-			JUNE 201	e FRON

1. If any water samples are taken from a Regulated Drinking Water (DW) System, please submit using an Authorized DW COC form.