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 CAM FCD-01191/3

CHAIN OF CUSTODY RECORD

Invoice Information				Report Information (if differs from invoice)				Project Information (where applicable)				Turnaround Time (TAT) Required							
Company Name: _____				Company Name: _____				Quotation #: _____				<input type="checkbox"/> Regular TAT (5-7 days) Most analyses							
Contact Name: _____				Contact Name: _____				P.O. #/ AFE#: _____				PLEASE PROVIDE ADVANCE NOTICE FOR RUSH PROJECTS							
Address: _____				Address: _____				Project #: _____				Rush TAT (Surcharges will be applied)							
Phone: _____ Fax: _____				Phone: _____ Fax: _____				Site Location: _____				<input type="checkbox"/> 1 Day <input type="checkbox"/> 2 Days <input type="checkbox"/> 3-4 Days							
Email: _____				Email: _____				Site #: _____				Date Required: _____							
Email: _____				Email: _____				Sampled By: _____				Date Required: _____							
MOE REGULATED DRINKING WATER OR WATER INTENDED FOR HUMAN CONSUMPTION MUST BE SUBMITTED ON THE MAXXAM DRINKING WATER CHAIN OF CUSTODY																			
Regulation 153				Other Regulations				Analysis Requested				LABORATORY USE ONLY							
<input type="checkbox"/> Table 1 <input type="checkbox"/> Res/Park <input type="checkbox"/> Med/ Fine <input type="checkbox"/> Table 2 <input type="checkbox"/> Ind/Comm <input type="checkbox"/> Coarse <input type="checkbox"/> Table 3 <input type="checkbox"/> Agri/ Other <input type="checkbox"/> Table _____ FOR RSC (PLEASE CIRCLE) Y / N				<input type="checkbox"/> CCME <input type="checkbox"/> Sanitary Sewer Bylaw <input type="checkbox"/> MISA <input type="checkbox"/> Storm Sewer Bylaw <input type="checkbox"/> PWQO Region _____ <input type="checkbox"/> Other (Specify) _____ <input type="checkbox"/> REG 558 (MIN. 3 DAY TAT REQUIRED)				# OF CONTAINERS SUBMITTED FIELD FILTERED (CIRCLE) Metals / Hg / CrVI BTEX/ PHC F1 PHCS F2 - F4 VOCs REG 153 METALS & INORGANICS REG 153 ICPMS METALS REG 153 METALS (Hg, CrVI, ICPMS Metals, HWS - B)				CUSTOMY SEAL Y / N COOLER TEMPERATURES Present Intact _____ _____ _____ _____ COOLING MEDIA PRESENT: Y / N							
SAMPLES MUST BE KEPT COOL (< 10 °C) FROM TIME OF SAMPLING UNTIL DELIVERY TO MAXXAM																			
SAMPLE IDENTIFICATION		DATE SAMPLED (YYYY/MM/DD)	TIME SAMPLED (HH:MM)	MATRIX	# OF CONTAINERS SUBMITTED	FIELD FILTERED (CIRCLE) Metals / Hg / CrVI	BTEX/ PHC F1	PHCS F2 - F4	VOCs	REG 153 METALS & INORGANICS	REG 153 ICPMS METALS	REG 153 METALS (Hg, CrVI, ICPMS Metals, HWS - B)				HOLD- DO NOT ANALYZE	COMMENTS		
1																			
2																			
3																			
4																			
5																			
6																			
7																			
8																			
9																			
10																			
RELINQUISHED BY: (Signature/Print)				DATE: (YYYY/MM/DD)		TIME: (HH:MM)		RECEIVED BY: (Signature/Print)				DATE: (YYYY/MM/DD)		TIME: (HH:MM)		MAXXAM JOB #			

Unless otherwise agreed to in writing, work submitted on this Chain of Custody is subject to Maxxam's standard Terms and Conditions. Signing of this Chain of Custody document is acknowledgment and acceptance of our terms which are available for viewing at [www.maxxam.ca/terms](http://maxxam.ca/terms). Sample container, preservation, hold time and packages information can be viewed at <http://maxxam.ca/wp-content/uploads/Ontario-COC.pdf>.

Sample Container, Preservation, and Hold Time Information*Hold Times and Container Types Do Not Apply to Drinking Water Samples*

WATER	Inorganic Parameters	Recommended Sample Container	Preservation	Hold Time*
	Alkalinity	500 mL plastic	None	14 days
	Anions (Br, Cl, F, NO ₃ , NO ₂ , PO ₄ , SO ₄)	500 mL plastic	None	3/28 Days
	Biochemical Oxygen Demand (BOD)	120 mL plastic	None	4 days
	Carbon, Total Organic (TOC)	250 mL plastic	H ₂ SO ₄ (pH < 2)	10 days
	Carbon, Dissolved Organic (DOC)	120 mL plastic	None	3 days
	Chemical Oxygen Demand (COD)	250 mL plastic	H ₂ SO ₄ (pH < 2)	30 days
	Chlorine, Residual (Cl)	40 mL glass vial w/septum cap**	None	Immediate
	Chromium VI - FIELD FILTER GW (Reg. 153)	125 mL plastic	(NH ₄) ₂ SO ₄ /NH ₄ OH/NaOH	28 days
	Conductivity	500 mL plastic	None	28 days
	Cyanide (CN)	125 mL plastic	NaOH (pH > 12)	14 days
	Dissolved ICPMS, ICP Metals - FIELD FILTER GW	120 mL plastic	HNO ₃ (pH < 2)	60 days
	Total ICPMS, ICP Metals - NOT FILTERED	120 mL plastic	HNO ₃ (pH < 2)	30 days
	Mercury - FIELD FILTER GW (Reg. 153) / SW (PWQO)	100 mL clear glass	HCl (pH < 2)	28 days
	Methyl Mercury (<i>Subcontracted</i>)	250 mL plastic jars (Teflon Lined)	HCl (pH < 2)	28 days
	Nitrogen - Ammonia (NH ₃ N) / Total Kjeldahl Nitrogen (TKN)	250 mL plastic	H ₂ SO ₄ (pH < 2)	10 days
	Phenolics - Total	120 mL amber glass	H ₂ SO ₄ (pH < 2)	30 days
	Solids - (TS, TSS, TDS)	500 mL plastic	None	7 days
	Sulphide (S ²⁻)	125 mL plastic	NaOH / ZnOAc (pH > 9)	7 days
	Total Phosphorus	250 mL plastic	H ₂ SO ₄ (pH < 2)	30 days
	Microbiological - Sewer	300 mL plastic - Sterilized	Na ₂ S ₂ O ₃	24 hours
	Microbiological - All Other	300 mL plastic - Sterilized	Na ₂ S ₂ O ₃	48 hours
	Organic Parameters	Recommended Sample Container	Preservation	Hold Time*
	ABNs (Acid & Base Neutral Extractables) or SVOCs (Semi-Volatiles)	2 x 1L amber glass	None	14 days
Fatty and Resin Acids	2 x 1L amber glass	None	7 days	
Herbicides	2 x 1L amber glass	None	14 days	
Dioxins and Furans	2 x 1L amber glass	None	30 days/Indefinite	
Chlorophenols	2 x 1L amber glass	None	14 days	
PAHs	2 x 250 mL amber glass	NaHSO ₄ (pH < 2)	14 days	
Pesticides / PCBs / Ocs	2 x 500 mL amber glass	None	14 days	
Oil & Grease / Heavy Oils	1 x 1L amber glass	HCl (pH < 2)	30 days	
F4 Gravimetric	1 x 250 mL amber glass	NaHSO ₄ (pH < 2)	40 days	
CCME PHCs F2-F4 / Extractable Hydrocarbons	2 x 250 mL amber glass	NaHSO ₄ (pH < 2)	40 days	
CCME PHCs F1 / BTEX	2 x 40 mL clear glass septum vial**	NaHSO ₄ (pH < 2)	14 days	
THMs / VOC's	3 x 40 mL clear glass septum vial**	NaHSO ₄ (pH < 2)	14 days	
1,4 Dioxane - processed as a VOC	3 x 40 mL clear glass septum vial**	NaHSO ₄ (pH < 2)	14 days	
1,4 Dioxane - processed as an ABN	2 x 1L amber glass	None	14 days	

SOIL	Inorganic Parameters	Recommended Sample Container	Preservation	Hold Time*
	Anions (Br, F, NO ₃ , NO ₂ , PO ₄ , SO ₄)	250 mL glass jar	None	None Specified
	Anions (Chloride)	250 mL glass jar	None	30 days
	Carbon, Total or Fraction of Organic (TOC/FOC)	250 mL glass jar, teflon lined lid	None	28 days
	Conductivity	250 mL glass jar	None	30 days
	Cyanide, Free	250 mL glass jar, teflon lined lid***	None	14 days
	Chromium VI	250 mL glass jar	None	30 days
	Metals (incl. Hydrides, SAR, HWS Boron, Ca, Mg, Na)	250 mL glass jar	None	180 days
	Mercury	250 mL glass jar	None	28 days
	Methyl Mercury (<i>Subcontracted</i>)	250 mL glass jar	None	28 days
	Nitrogen - Ammonia (NH ₃ N) / Total Kjeldahl Nitrogen (TKN)	250 mL glass jar	None	None Specified
	pH	250 mL glass jar	None	30 days
	Phenolics - Total	250 mL glass jar	None	None Specified
	Regulation 558 - TCLP - Inorganics & Organics	250 mL glass jar	None	14-180 days
	Regulation 558 - TCLP (Zero Headspace Extraction) - Volatiles	120 mL glass jar, teflon lined lid	None	14 days
	Organic Parameters	Recommended Sample Container	Preservation	Hold Time*
	BTEX, PHCs (F1), THMs, VOCs for Reg 153 - RSC work	40mL glass vial (plus 60mL jar for moisture)	10 mL methanol	14 days
	BTEX, PHCs (F1), THMs, VOCs for Reg 153 - RSC work	Hermetic Sampler (plus 60mL jar for moisture)	Stabilize with Methanol within 48 hrs of sampling	
	PHCs (F2-F4) and Moisture	120 mL glass jar, teflon lined lid	None	14 days
	Herbicides, OP Pesticides	120 mL glass jar, teflon lined lid	None	14 days
	Dioxins and Furans, PCBs	120 mL glass jar, teflon lined lid	None	Indefinite storage time
	Oil & Grease, Heavy Oils	120 mL glass jar, teflon lined lid	None	30 days
	ABNs, Chlorophenols, OC Pesticides, PAHs	120 mL glass jar, teflon lined lid	None	60 days
	1,4-Dioxane - processed as a VOC	40mL glass vial (plus 60mL jar for moisture)	10 mL methanol	14 days
1,4 Dioxane - processed as an ABN	120 mL glass jar, teflon lined lid	None	14 days	

*Based upon Reg. 153 analytical protocols and MISA (Municipal and Industrial Strategy for Abatement)

**No headspace or air bubbles in the container.

***Protect from light

Maxxam has provided a summary of holding times for convenience purposes only and is to be used only as a guide. Holding times may differ depending on required protocol.

Please consult the official regulations to ensure the appropriate holding times are followed. Please ensure samples are transported as quickly as possible to ensure hold times can be met.

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Reg 153 Metals and Inorganics Packages		
Reg 153 ICPMS Metals	Reg 153 Metals Package (Soil)	Reg 153 Metals Package (Water)
Antimony	Reg 153 ICPMS Metals with	Reg 153 ICPMS Metals with
Arsenic	Chromium VI	Chromium VI
Barium	HWS Boron	Mercury
Beryllium	Mercury	
Boron (total)		
Cadmium		
Chromium (total)		
Cobalt	Reg 153 Metals & Inorganics Package (Soil)	Reg 153 Metals & Inorganics Package (Water)
Copper		
Lead	Reg 153 Metals Package with..	Reg 153 Metals Package with...
Molybdenum	Electrical Conductivity	Chloride
Nickel	Free Cyanide	Free Cyanide
Selenium	pH	
Silver	Sodium Absorption Ratio	
Sodium (<i>water only</i>)		
Thallium		
Uranium		
Vanadium		
Zinc		

Maxxam Water Quality Packages		
RCAP - Comprehensive ICP/MS Metals - Dissolved	RCAP - Routine ICP Metals - Dissolved	RCAP - Surface Water ICP/MS Metals - Total
Alkalinity CaCO ₃	Alkalinity CaCO ₃	Alkalinity CaCO ₃
Ammonia as N	Ammonia as N	Ammonia as N
Carbon, Dissolved Org. as C	Carbon, Dissolved Org. as C	Carbon, Total Org. As C
Chloride	Chloride	Chloride
Conductivity	Conductivity	Conductivity
Nitrate as Nitrogen	Nitrate as Nitrogen	Nitrate as Nitrogen
Nitrite as Nitrogen	Nitrite as Nitrogen	Nitrite as Nitrogen
pH	pH	pH
Phosphate as o-PO ₄	Phosphate as o-PO ₄	Phosphate as o-PO ₄
Sulphate as SO ₄	Sulphate as SO ₄	Sulphate as SO ₄
		Total Phosphorus (colorimetric)
		Turbidity
CALCULATIONS:	CALCULATIONS:	CALCULATIONS:
TDS Calculated	TDS Calculated	TDS Calculated
Bicarbonate Alkalinity	Bicarbonate Alkalinity	Bicarbonate Alkalinity
Carbonate Alkalinity	Carbonate Alkalinity	Carbonate Alkalinity
Anion Sum	Anion Sum	Hardness
Cation Sum	Cation Sum	Langelier Index @5C
Hardness	Hardness	Langelier Index @20C
Ion Balance	Ion Balance	Saturation pH @5C
Langelier Index @5C	Langelier Index @5C	Saturation pH @20C
Langelier Index @20C	Langelier Index @20C	
Saturation pH @5C	Saturation pH @5C	
Saturation pH @20C	Saturation pH @20C	

Note: Samples are to be kept cool (less than 10°C) post collection; however, samples arriving at Maxxam the same day as they were collected, with an attempt made to cool, are not considered compromised at greater than 10°C.