



RETURN BIDS TO:
RETOURNER LES SOUMISSIONS À:
Public Works Government Services Canada- Bid
Receiving / Réception des soumissions
189 Prince William Street
Room 405
Saint John
New Brunswick
E2L 2B9

SOLICITATION AMENDMENT **MODIFICATION DE L'INVITATION**

The referenced document is hereby revised; unless otherwise indicated, all other terms and conditions of the Solicitation remain the same.

Ce document est par la présente révisé; sauf indication contraire, les modalités de l'invitation demeurent les mêmes.

Comments - Commentaires

Vendor/Firm Name and Address
Raison sociale et adresse du
fournisseur/de l'entrepreneur

Issuing Office - Bureau de distribution
Public Works Government Services Canada- Bid
Receiving / Réception des soumissions
189 Prince William Street
Room 405
Saint John
New Bruns
E2L 2B9

Title - Sujet Water Treatment System	
Solicitation No. - N° de l'invitation 39903-170154/A	Amendment No. - N° modif. 002
Client Reference No. - N° de référence du client 39903-170154	Date 2016-07-29
GETS Reference No. - N° de référence de SEAG PW-\$PWB-101-3913	
File No. - N° de dossier PWB-6-39029 (101)	CCC No./N° CCC - FMS No./N° VME
Solicitation Closes - L'invitation prend fin at - à 02:00 PM on - le 2016-08-18	
Time Zone Fuseau horaire Atlantic Daylight Saving Time ADT	
F.O.B. - F.A.B. Plant-Usine: <input type="checkbox"/> Destination: <input checked="" type="checkbox"/> Other-Autre: <input type="checkbox"/>	
Address Enquiries to: - Adresser toutes questions à: Lomax, Sandra	Buyer Id - Id de l'acheteur pwb101
Telephone No. - N° de téléphone (506) 636-4362 ()	FAX No. - N° de FAX (506) 636-4376
Destination - of Goods, Services, and Construction: Destination - des biens, services et construction:	

Instructions: See Herein

Instructions: Voir aux présentes

Delivery Required - Livraison exigée	Delivery Offered - Livraison proposée
Vendor/Firm Name and Address Raison sociale et adresse du fournisseur/de l'entrepreneur	
Telephone No. - N° de téléphone Facsimile No. - N° de télécopieur	
Name and title of person authorized to sign on behalf of Vendor/Firm (type or print) Nom et titre de la personne autorisée à signer au nom du fournisseur/ de l'entrepreneur (taper ou écrire en caractères d'imprimerie)	
Signature	Date

Solicitation No. - N° de l'invitation
39903-170154/A
Client Ref. No. - N° de réf. du client
39903-170154

Amd. No. - N° de la modif.
002
File No. - N° du dossier
PWB-6-39029

Buyer ID - Id de l'acheteur
PWB010
CCC No./N° CCC - FMS No./N° VME

This Solicitation Amendment No. Two (2) is raised to include the following Addendum No. Two (2).

The following Addendum to the tender is effective immediately. This addendum shall form part of the contract documents.

All other terms and conditions remain the same.

Question and Answers

Question -1

Is there a water analysis that you can provide

Answer -1

See attached water analysis

Your P.O. #: PAID BY MC
Your C.O.C. #: 567255-01-01

Attention: Neevin Clow

Canadian Food Inspection Agency
93 Mt Edwards Rd
Charlottetown, PE
C1A 5T1

Report Date: 2016/07/05

Report #: R4053031

Version: 1 - Final

CERTIFICATE OF ANALYSIS

MAXXAM JOB #: B6D1808

Received: 2016/06/24, 11:18

Sample Matrix: Water
Samples Received: 1

Analyses	Quantity	Date Extracted	Date Analyzed	Laboratory Method	Reference
Carbonate, Bicarbonate and Hydroxide	1	N/A	2016/06/30	N/A	SM 22 4500-CO2 D
Alkalinity	1	N/A	2016/07/04	ATL SOP 00013	EPA 310.2 R1974 m
Chloride	1	N/A	2016/07/04	ATL SOP 00014	SM 22 4500-Cl- E m
Colour	1	N/A	2016/07/04	ATL SOP 00020	SM 22 2120C m
Conductance - water	1	N/A	2016/06/30	ATL SOP 00004	SM 22 2510B m
Hardness (calculated as CaCO3)	1	N/A	2016/06/29	ATL SOP 00048	SM 22 2340 B
Metals Water Total MS	1	2016/06/28	2016/06/29	ATL SOP 00058	EPA 6020A R1 m
Ion Balance (% Difference)	1	N/A	2016/07/05		Auto Calc.
Anion and Cation Sum	1	N/A	2016/06/30		Auto Calc.
Nitrogen Ammonia - water	1	N/A	2016/06/30	ATL SOP 00015	EPA 350.1 R2 m
Nitrogen - Nitrate + Nitrite	1	N/A	2016/07/05	ATL SOP 00016	USGS SOPINCF0452.2 m
Nitrogen - Nitrite	1	N/A	2016/07/04	ATL SOP 00017	SM 22 4500-NO2- B m
Nitrogen - Nitrate (as N)	1	N/A	2016/07/05	ATL SOP 00018	ASTM D3867
pH (1)	1	N/A	2016/06/30	ATL SOP 00003	SM 22 4500-H+ B m
Phosphorus - ortho	1	N/A	2016/07/04	ATL SOP 00021	EPA 365.2 m
Sat. pH and Langelier Index (@ 20C)	1	N/A	2016/07/05	ATL SOP 00049	Auto Calc.
Sat. pH and Langelier Index (@ 4C)	1	N/A	2016/07/05	ATL SOP 00049	Auto Calc.
Reactive Silica	1	N/A	2016/07/04	ATL SOP 00022	EPA 366.0 m
Sulphate	1	N/A	2016/07/05	ATL SOP 00023	ASTMD516-11 m
Total Dissolved Solids (TDS calc)	1	N/A	2016/07/05		Auto Calc.
Organic carbon - Total (TOC) (2)	1	N/A	2016/06/29	ATL SOP 00037	SM 22 5310C m
Turbidity	1	N/A	2016/06/29	ATL SOP 00011	EPA 180.1 R2 m

Reference Method suffix "m" indicates test methods incorporate validated modifications from specific reference methods to improve performance.

* RPDs calculated using raw data. The rounding of final results may result in the apparent difference.

(1) The APHA Standard Method require pH to be analyzed within 15 minutes of sampling and therefore field analysis is required for compliance. All Laboratory pH analyses in this report are reported past the APHA Standard Method holding time.

(2) TOC / DOC present in the sample should be considered as non-purgeable TOC / DOC.

Your P.O. #: PAID BY MC
Your C.O.C. #: 567255-01-01

Attention:Neevin Clow

Canadian Food Inspection Agency
93 Mt Edwards Rd
Charlottetown, PE
C1A 5T1

Report Date: 2016/07/05
Report #: R4053031
Version: 1 - Final

CERTIFICATE OF ANALYSIS

MAXXAM JOB #: B6D1808

Received: 2016/06/24, 11:18

Encryption Key



Maxxam
05 Jul 2016 17:02:56 -03:00

Please direct all questions regarding this Certificate of Analysis to your Project Manager.

Avery Withrow, Project Manager

Email: AWithrow@maxxam.ca

Phone# (902)420-0203 Ext:233

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This report has been generated and distributed using a secure automated process.

Maxxam has procedures in place to guard against improper use of the electronic signature and have the required "signatories", as per section 5.10.2 of ISO/IEC 17025:2005(E), signing the reports. For Service Group specific validation please refer to the Validation Signature Page.

Maxxam Job #: B6D1808
Report Date: 2016/07/05

Canadian Food Inspection Agency
Your P.O. #: PAID BY MC

RESULTS OF ANALYSES OF WATER

Maxxam ID		CPK123		
Sampling Date		2016/06/23 11:30		
COC Number		567255-01-01		
	UNITS	BO-10	RDL	QC Batch
Calculated Parameters				
Anion Sum	me/L	3.54	N/A	4556380
Bicarb. Alkalinity (calc. as CaCO ₃)	mg/L	130	1.0	4555846
Calculated TDS	mg/L	210	1.0	4556383
Carb. Alkalinity (calc. as CaCO ₃)	mg/L	1.1	1.0	4555846
Cation Sum	me/L	3.44	N/A	4556380
Hardness (CaCO ₃)	mg/L	ND	1.0	4556378
Ion Balance (% Difference)	%	1.43	N/A	4556379
Langelier Index (@ 20C)	N/A	NC		4555851
Langelier Index (@ 4C)	N/A	NC		4555852
Nitrate (N)	mg/L	3.5	0.050	4556381
Saturation pH (@ 20C)	N/A	NC		4555851
Saturation pH (@ 4C)	N/A	NC		4555852
Inorganics				
Total Alkalinity (Total as CaCO ₃)	mg/L	140	25	4563674
Dissolved Chloride (Cl)	mg/L	14	1.0	4563678
Colour	TCU	ND	5.0	4563687
Nitrate + Nitrite (N)	mg/L	3.5	0.050	4563692
Nitrite (N)	mg/L	ND	0.010	4563695
Nitrogen (Ammonia Nitrogen)	mg/L	ND	0.050	4559813
Total Organic Carbon (C)	mg/L	0.73	0.50	4559378
Orthophosphate (P)	mg/L	0.047	0.010	4563689
pH	pH	7.96	N/A	4560781
Reactive Silica (SiO ₂)	mg/L	8.3	0.50	4563684
Dissolved Sulphate (SO ₄)	mg/L	8.6	2.0	4563682
Turbidity	NTU	0.21	0.10	4559037
Conductivity	uS/cm	340	1.0	4560783
RDL = Reportable Detection Limit QC Batch = Quality Control Batch N/A = Not Applicable ND = Not detected				

Maxxam Job #: B6D1808
Report Date: 2016/07/05

Canadian Food Inspection Agency
Your P.O. #: PAID BY MC

ELEMENTS BY ICP/MS (WATER)

Maxxam ID		CPK123		
Sampling Date		2016/06/23 11:30		
COC Number		567255-01-01		
	UNITS	BO-10	RDL	QC Batch
Metals				
Total Aluminum (Al)	ug/L	8.2	5.0	4557313
Total Antimony (Sb)	ug/L	ND	1.0	4557313
Total Arsenic (As)	ug/L	ND	1.0	4557313
Total Barium (Ba)	ug/L	ND	1.0	4557313
Total Beryllium (Be)	ug/L	ND	1.0	4557313
Total Bismuth (Bi)	ug/L	ND	2.0	4557313
Total Boron (B)	ug/L	ND	50	4557313
Total Cadmium (Cd)	ug/L	0.13	0.010	4557313
Total Calcium (Ca)	ug/L	ND	100	4557313
Total Chromium (Cr)	ug/L	ND	1.0	4557313
Total Cobalt (Co)	ug/L	ND	0.40	4557313
Total Copper (Cu)	ug/L	120	2.0	4557313
Total Iron (Fe)	ug/L	ND	50	4557313
Total Lead (Pb)	ug/L	0.78	0.50	4557313
Total Magnesium (Mg)	ug/L	ND	100	4557313
Total Manganese (Mn)	ug/L	ND	2.0	4557313
Total Molybdenum (Mo)	ug/L	ND	2.0	4557313
Total Nickel (Ni)	ug/L	ND	2.0	4557313
Total Phosphorus (P)	ug/L	ND	100	4557313
Total Potassium (K)	ug/L	120	100	4557313
Total Selenium (Se)	ug/L	ND	1.0	4557313
Total Silver (Ag)	ug/L	ND	0.10	4557313
Total Sodium (Na)	ug/L	79000	100	4557313
Total Strontium (Sr)	ug/L	ND	2.0	4557313
Total Thallium (Tl)	ug/L	ND	0.10	4557313
Total Tin (Sn)	ug/L	ND	2.0	4557313
Total Titanium (Ti)	ug/L	ND	2.0	4557313
Total Uranium (U)	ug/L	0.32	0.10	4557313
Total Vanadium (V)	ug/L	4.1	2.0	4557313
Total Zinc (Zn)	ug/L	9.7	5.0	4557313
RDL = Reportable Detection Limit				
QC Batch = Quality Control Batch				
ND = Not detected				

Maxxam Job #: B6D1808
Report Date: 2016/07/05

Canadian Food Inspection Agency
Your P.O. #: PAID BY MC

GENERAL COMMENTS

Each temperature is the average of up to three cooler temperatures taken at receipt

Package 1	5.3°C
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Results relate only to the items tested.

Maxxam Job #: B6D1808
Report Date: 2016/07/05

Canadian Food Inspection Agency
Your P.O. #: PAID BY MC

QUALITY ASSURANCE REPORT

QA/QC	Batch	Init	QC Type	Parameter	Date Analyzed	Value	Recovery	UNITS	QC Limits
4557313	BAN	Matrix Spike		Total Aluminum (Al)	2016/06/29		91	%	80 - 120
				Total Antimony (Sb)	2016/06/29		102	%	80 - 120
				Total Arsenic (As)	2016/06/29		95	%	80 - 120
				Total Barium (Ba)	2016/06/29		NC	%	80 - 120
				Total Beryllium (Be)	2016/06/29		107	%	80 - 120
				Total Bismuth (Bi)	2016/06/29		97	%	80 - 120
				Total Boron (B)	2016/06/29		103	%	80 - 120
				Total Cadmium (Cd)	2016/06/29		99	%	80 - 120
				Total Calcium (Ca)	2016/06/29		NC	%	80 - 120
				Total Chromium (Cr)	2016/06/29		96	%	80 - 120
				Total Cobalt (Co)	2016/06/29		97	%	80 - 120
				Total Copper (Cu)	2016/06/29		95	%	80 - 120
				Total Iron (Fe)	2016/06/29		100	%	80 - 120
				Total Lead (Pb)	2016/06/29		98	%	80 - 120
				Total Magnesium (Mg)	2016/06/29		100	%	80 - 120
				Total Manganese (Mn)	2016/06/29		NC	%	80 - 120
				Total Molybdenum (Mo)	2016/06/29		97	%	80 - 120
				Total Nickel (Ni)	2016/06/29		96	%	80 - 120
				Total Phosphorus (P)	2016/06/29		100	%	80 - 120
				Total Potassium (K)	2016/06/29		99	%	80 - 120
				Total Selenium (Se)	2016/06/29		93	%	80 - 120
				Total Silver (Ag)	2016/06/29		99	%	80 - 120
				Total Sodium (Na)	2016/06/29		97	%	80 - 120
				Total Strontium (Sr)	2016/06/29		NC	%	80 - 120
				Total Thallium (Tl)	2016/06/29		97	%	80 - 120
				Total Tin (Sn)	2016/06/29		100	%	80 - 120
				Total Titanium (Ti)	2016/06/29		100	%	80 - 120
				Total Uranium (U)	2016/06/29		104	%	80 - 120
				Total Vanadium (V)	2016/06/29		100	%	80 - 120
				Total Zinc (Zn)	2016/06/29		96	%	80 - 120
4557313	BAN	Spiked Blank		Total Aluminum (Al)	2016/06/29		98	%	80 - 120
				Total Antimony (Sb)	2016/06/29		97	%	80 - 120
				Total Arsenic (As)	2016/06/29		91	%	80 - 120
				Total Barium (Ba)	2016/06/29		95	%	80 - 120
				Total Beryllium (Be)	2016/06/29		103	%	80 - 120
				Total Bismuth (Bi)	2016/06/29		97	%	80 - 120
				Total Boron (B)	2016/06/29		100	%	80 - 120
				Total Cadmium (Cd)	2016/06/29		96	%	80 - 120
				Total Calcium (Ca)	2016/06/29		99	%	80 - 120
				Total Chromium (Cr)	2016/06/29		94	%	80 - 120
				Total Cobalt (Co)	2016/06/29		96	%	80 - 120
				Total Copper (Cu)	2016/06/29		94	%	80 - 120
				Total Iron (Fe)	2016/06/29		98	%	80 - 120
				Total Lead (Pb)	2016/06/29		97	%	80 - 120
				Total Magnesium (Mg)	2016/06/29		98	%	80 - 120
				Total Manganese (Mn)	2016/06/29		97	%	80 - 120
				Total Molybdenum (Mo)	2016/06/29		95	%	80 - 120
				Total Nickel (Ni)	2016/06/29		95	%	80 - 120
				Total Phosphorus (P)	2016/06/29		99	%	80 - 120
				Total Potassium (K)	2016/06/29		99	%	80 - 120
				Total Selenium (Se)	2016/06/29		91	%	80 - 120
				Total Silver (Ag)	2016/06/29		97	%	80 - 120
				Total Sodium (Na)	2016/06/29		95	%	80 - 120
				Total Strontium (Sr)	2016/06/29		97	%	80 - 120

Maxxam Job #: B6D1808
Report Date: 2016/07/05

Canadian Food Inspection Agency
Your P.O. #: PAID BY MC

QUALITY ASSURANCE REPORT(CONT'D)

QA/QC Batch	Init	QC Type	Parameter	Date Analyzed	Value	Recovery	UNITS	QC Limits
4557313	BAN	Method Blank	Total Thallium (Tl)	2016/06/29		96	%	80 - 120
			Total Tin (Sn)	2016/06/29		98	%	80 - 120
			Total Titanium (Ti)	2016/06/29		96	%	80 - 120
			Total Uranium (U)	2016/06/29		100	%	80 - 120
			Total Vanadium (V)	2016/06/29		97	%	80 - 120
			Total Zinc (Zn)	2016/06/29		93	%	80 - 120
			Total Aluminum (Al)	2016/06/29	ND, RDL=5.0		ug/L	
			Total Antimony (Sb)	2016/06/29	ND, RDL=1.0		ug/L	
			Total Arsenic (As)	2016/06/29	ND, RDL=1.0		ug/L	
			Total Barium (Ba)	2016/06/29	ND, RDL=1.0		ug/L	
			Total Beryllium (Be)	2016/06/29	ND, RDL=1.0		ug/L	
			Total Bismuth (Bi)	2016/06/29	ND, RDL=2.0		ug/L	
			Total Boron (B)	2016/06/29	ND, RDL=50		ug/L	
			Total Cadmium (Cd)	2016/06/29	ND, RDL=0.010		ug/L	
			Total Calcium (Ca)	2016/06/29	ND, RDL=100		ug/L	
			Total Chromium (Cr)	2016/06/29	ND, RDL=1.0		ug/L	
			Total Cobalt (Co)	2016/06/29	ND, RDL=0.40		ug/L	
			Total Copper (Cu)	2016/06/29	ND, RDL=2.0		ug/L	
			Total Iron (Fe)	2016/06/29	ND, RDL=50		ug/L	
			Total Lead (Pb)	2016/06/29	ND, RDL=0.50		ug/L	
			Total Magnesium (Mg)	2016/06/29	ND, RDL=100		ug/L	
			Total Manganese (Mn)	2016/06/29	ND, RDL=2.0		ug/L	
			Total Molybdenum (Mo)	2016/06/29	ND, RDL=2.0		ug/L	
			Total Nickel (Ni)	2016/06/29	ND, RDL=2.0		ug/L	
			Total Phosphorus (P)	2016/06/29	ND, RDL=100		ug/L	
			Total Potassium (K)	2016/06/29	ND, RDL=100		ug/L	
			Total Selenium (Se)	2016/06/29	ND, RDL=1.0		ug/L	
			Total Silver (Ag)	2016/06/29	ND, RDL=0.10		ug/L	

Maxxam Job #: B6D1808
Report Date: 2016/07/05

Canadian Food Inspection Agency
Your P.O. #: PAID BY MC

QUALITY ASSURANCE REPORT(CONT'D)

QA/QC Batch	Init	QC Type	Parameter	Date Analyzed	Value	Recovery	UNITS	QC Limits
4557313	BAN	RPD	Total Sodium (Na)	2016/06/29	ND, RDL=100		ug/L	
			Total Strontium (Sr)	2016/06/29	ND, RDL=2.0		ug/L	
			Total Thallium (Tl)	2016/06/29	ND, RDL=0.10		ug/L	
			Total Tin (Sn)	2016/06/29	ND, RDL=2.0		ug/L	
			Total Titanium (Ti)	2016/06/29	ND, RDL=2.0		ug/L	
			Total Uranium (U)	2016/06/29	ND, RDL=0.10		ug/L	
			Total Vanadium (V)	2016/06/29	ND, RDL=2.0		ug/L	
			Total Zinc (Zn)	2016/06/29	ND, RDL=5.0		ug/L	
			Total Aluminum (Al)	2016/06/29	NC		%	20
			Total Antimony (Sb)	2016/06/29	NC		%	20
			Total Arsenic (As)	2016/06/29	NC		%	20
			Total Barium (Ba)	2016/06/29	1.2		%	20
			Total Beryllium (Be)	2016/06/29	NC		%	20
			Total Bismuth (Bi)	2016/06/29	NC		%	20
			Total Boron (B)	2016/06/29	NC		%	20
			Total Cadmium (Cd)	2016/06/29	NC		%	20
			Total Calcium (Ca)	2016/06/29	2.6		%	20
			Total Chromium (Cr)	2016/06/29	NC		%	20
			Total Cobalt (Co)	2016/06/29	NC		%	20
			Total Copper (Cu)	2016/06/29	NC		%	20
			Total Iron (Fe)	2016/06/29	3.3		%	20
			Total Lead (Pb)	2016/06/29	NC		%	20
			Total Magnesium (Mg)	2016/06/29	2.3		%	20
			Total Manganese (Mn)	2016/06/29	2.3		%	20
			Total Molybdenum (Mo)	2016/06/29	NC		%	20
			Total Nickel (Ni)	2016/06/29	NC		%	20
			Total Phosphorus (P)	2016/06/29	NC		%	20
			Total Potassium (K)	2016/06/29	2.6		%	20
			Total Selenium (Se)	2016/06/29	NC		%	20
			Total Silver (Ag)	2016/06/29	NC		%	20
			Total Sodium (Na)	2016/06/29	2.7		%	20
			Total Strontium (Sr)	2016/06/29	2.0		%	20
			Total Thallium (Tl)	2016/06/29	NC		%	20
			Total Tin (Sn)	2016/06/29	NC		%	20
			Total Titanium (Ti)	2016/06/29	NC		%	20
			Total Uranium (U)	2016/06/29	2.6		%	20
			Total Vanadium (V)	2016/06/29	NC		%	20
			Total Zinc (Zn)	2016/06/29	NC		%	20
4559037	KMC	QC Standard	Turbidity	2016/06/29		99	%	80 - 120
4559037	KMC	Spiked Blank	Turbidity	2016/06/29		100	%	80 - 120
4559037	KMC	Method Blank	Turbidity	2016/06/29	ND, RDL=0.10		NTU	
4559037	KMC	RPD	Turbidity	2016/06/29	2.9		%	20
4559378	SMT	Matrix Spike [CPK123-01]	Total Organic Carbon (C)	2016/06/29		96	%	80 - 120
4559378	SMT	Spiked Blank	Total Organic Carbon (C)	2016/06/29		94	%	80 - 120

Maxxam Job #: B6D1808
Report Date: 2016/07/05

Canadian Food Inspection Agency
Your P.O. #: PAID BY MC

QUALITY ASSURANCE REPORT(CONT'D)

QA/QC Batch	Init	QC Type	Parameter	Date Analyzed	Value	Recovery	UNITS	QC Limits
4559378	SMT	Method Blank	Total Organic Carbon (C)	2016/06/29	ND, RDL=0.50		mg/L	
4559378	SMT	RPD	Total Organic Carbon (C)	2016/06/29	2.7		%	20
4559813	NRG	Matrix Spike	Nitrogen (Ammonia Nitrogen)	2016/06/30		97	%	80 - 120
4559813	NRG	Spiked Blank	Nitrogen (Ammonia Nitrogen)	2016/06/29		102	%	80 - 120
4559813	NRG	Method Blank	Nitrogen (Ammonia Nitrogen)	2016/06/29	ND, RDL=0.050		mg/L	
4559813	NRG	RPD	Nitrogen (Ammonia Nitrogen)	2016/06/30	NC		%	20
4560781	JMV	QC Standard	pH	2016/06/30		100	%	97 - 103
4560781	JMV	RPD	pH	2016/06/30	2.1		%	N/A
4560783	JMV	Spiked Blank	Conductivity	2016/06/30		105	%	80 - 120
4560783	JMV	Method Blank	Conductivity	2016/06/30	1.4, RDL=1.0		uS/cm	
4560783	JMV	RPD	Conductivity	2016/06/30	0.86		%	25
4563674	NRG	Matrix Spike	Total Alkalinity (Total as CaCO3)	2016/07/04		NC	%	80 - 120
4563674	NRG	Spiked Blank	Total Alkalinity (Total as CaCO3)	2016/07/04		103	%	80 - 120
4563674	NRG	Method Blank	Total Alkalinity (Total as CaCO3)	2016/07/04	ND, RDL=5.0		mg/L	
4563674	NRG	RPD	Total Alkalinity (Total as CaCO3)	2016/07/04	0.55		%	25
4563678	MCN	Matrix Spike	Dissolved Chloride (Cl)	2016/07/04		102	%	80 - 120
4563678	MCN	QC Standard	Dissolved Chloride (Cl)	2016/07/04		107	%	80 - 120
4563678	MCN	Spiked Blank	Dissolved Chloride (Cl)	2016/07/04		103	%	80 - 120
4563678	MCN	Method Blank	Dissolved Chloride (Cl)	2016/07/04	ND, RDL=1.0		mg/L	
4563678	MCN	RPD	Dissolved Chloride (Cl)	2016/07/04	NC		%	25
4563682	MCN	Matrix Spike	Dissolved Sulphate (SO4)	2016/07/05		97	%	80 - 120
4563682	MCN	Spiked Blank	Dissolved Sulphate (SO4)	2016/07/05		102	%	80 - 120
4563682	MCN	Method Blank	Dissolved Sulphate (SO4)	2016/07/05	ND, RDL=2.0		mg/L	
4563682	MCN	RPD	Dissolved Sulphate (SO4)	2016/07/05	NC		%	25
4563684	NRG	Matrix Spike	Reactive Silica (SiO2)	2016/07/04		NC	%	80 - 120
4563684	NRG	Spiked Blank	Reactive Silica (SiO2)	2016/07/04		102	%	80 - 120
4563684	NRG	Method Blank	Reactive Silica (SiO2)	2016/07/04	ND, RDL=0.50		mg/L	
4563684	NRG	RPD	Reactive Silica (SiO2)	2016/07/04	1.2		%	25
4563687	MCN	Spiked Blank	Colour	2016/07/04		100	%	80 - 120
4563687	MCN	Method Blank	Colour	2016/07/04	ND, RDL=5.0		TCU	
4563687	MCN	RPD	Colour	2016/07/04	NC		%	20
4563689	MCN	Matrix Spike	Orthophosphate (P)	2016/07/04		NC	%	80 - 120
4563689	MCN	Spiked Blank	Orthophosphate (P)	2016/07/04		100	%	80 - 120
4563689	MCN	Method Blank	Orthophosphate (P)	2016/07/04	ND, RDL=0.010		mg/L	
4563689	MCN	RPD	Orthophosphate (P)	2016/07/04	2.9		%	25
4563692	MCN	Matrix Spike	Nitrate + Nitrite (N)	2016/07/05		113	%	80 - 120
4563692	MCN	Spiked Blank	Nitrate + Nitrite (N)	2016/07/05		111	%	80 - 120
4563692	MCN	Method Blank	Nitrate + Nitrite (N)	2016/07/05	ND, RDL=0.050		mg/L	
4563692	MCN	RPD	Nitrate + Nitrite (N)	2016/07/05	NC		%	25
4563695	MCN	Matrix Spike	Nitrite (N)	2016/07/04		90	%	80 - 120
4563695	MCN	Spiked Blank	Nitrite (N)	2016/07/04		102	%	80 - 120
4563695	MCN	Method Blank	Nitrite (N)	2016/07/04	ND, RDL=0.010		mg/L	

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QUALITY ASSURANCE REPORT(CONT'D)

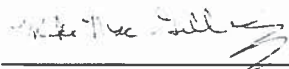
QA/QC			Date		Value	Recovery	UNITS	QC Limits
Batch	Init	QC Type	Parameter	Analyzed				
4563695	MCN	RPD	Nitrite (N)	2016/07/04	NC		%	25
<p>N/A = Not Applicable</p> <p>Duplicate: Paired analysis of a separate portion of the same sample. Used to evaluate the variance in the measurement.</p> <p>Matrix Spike: A sample to which a known amount of the analyte of interest has been added. Used to evaluate sample matrix interference.</p> <p>QC Standard: A sample of known concentration prepared by an external agency under stringent conditions. Used as an independent check of method accuracy.</p> <p>Spiked Blank: A blank matrix sample to which a known amount of the analyte, usually from a second source, has been added. Used to evaluate method accuracy.</p> <p>Method Blank: A blank matrix containing all reagents used in the analytical procedure. Used to identify laboratory contamination.</p> <p>NC (Matrix Spike): The recovery in the matrix spike was not calculated. The relative difference between the concentration in the parent sample and the spiked amount was too small to permit a reliable recovery calculation (matrix spike concentration was less than 2x that of the native sample concentration).</p> <p>NC (Duplicate RPD): The duplicate RPD was not calculated. The concentration in the sample and/or duplicate was too low to permit a reliable RPD calculation (one or both samples < 5x RDL).</p>								

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VALIDATION SIGNATURE PAGE

The analytical data and all QC contained in this report were reviewed and validated by the following individual(s).



Mike MacGillivray, Scientific Specialist (Inorganics)

Maxxam has procedures in place to guard against improper use of the electronic signature and have the required "signatories", as per section 5.10.2 of ISO/IEC 17025:2005(E), signing the reports. For Service Group specific validation please refer to the Validation Signature Page.

