INORG Case:	SI	OG:
	OMPLETE SDG FILE (CSF) AUDIT	
Inorganic Parameters:		
Missing Information	Date Lab Contacted	Date Received
		enen verane er inde
3.22	>	
Validator:		Date:

		Pres.	Code		M	etals		Hg		CN	
Sample No.	Matrix	Metals	CN	Date Sampled	Date Analyzed	# of Days from Samp. to Analysis	Date Analyzed	# of Days from Samp. to Analysis	Date Analyzed	# of Days from Samp. to Analysis	Action
	3										
	7										
eservation Co Cool (≤ 6°C) pH < 2 with 1 pH > 12 with Room Tempe	HNO;	7 Treated	ng agent (f	for oxidants) es		>		UJ - Est	imate (J) Det imate (UJ) N	ected Values on-Detected Values Detected Values	3

EPA-NE - Data '	Validation 1	Worksheet							
ase:		_		SDG:					
I. ICP-MS TU	NE								
ist all Tunes that	t are outside	method Q	C acceptance of	criteria. Use a sep	arate sheet	if more tha	n one instrume	ent was used for sample analysis.	
lethod:					Carlo Marie	The true	ar one manana	and was used for sample analysis.	
lethod QC accep	tance criteri	ia for resolu	ution check/pe	ak width:			at	% peak height.	
1ethod QC accep	tance criteri	ia for % RS	D:				_ at		
Analysis		-2000	Mass Calibr	ation	Mass Re	esolution	% RSD		
Date and Time	Analyte	True Mass (amu)	Measured Mass (amu)	Absolute Difference of Masses (amu)	Peak Width (amu)	% Peak Height	of Absolute Signals	Analyte/Samples Affected	Action
		-							
	-								
Comments:									
lidator:				-				Date:	

sc	C/ D	-		SDG:			
. CALIBR	ATIONS						
Initial and	Continuing C	alibration Ve	rification	ns - List a	I ICV and CCV analy	te recoveries that are outside the method QC	acceptance criteria.
						v method QC acceptance criteria:	
Date/Time	Instrument ID	Analyte	ICV/	CCV#	% R	Samples Affected	Action
			-				
	dard method QC	C acceptance c			Standard analytes that Affected Range	are outside method QC acceptance criteria (f	For non-CLP method Action
Check Stan	dard method QC	C acceptance c	riteria:		Affected		
Check Stan	dard method QC	C acceptance c	riteria:		Affected		
Check Stan	dard method QC	C acceptance c	riteria:		Affected		
L Check Stan	dard method QC	C acceptance c	riteria:		Affected		

CRQL.		elation coefficie			d QC acceptance criteria and/or the y-in	
CRQL.						
strument					Cantilation Type.	
ID A	Analyte	Correlation Coefficient.	y- Intercept	CRQL	Samples Affected	Action
						-
nstrument	ncentratio Analyte	True	Found Conc.	LP Form 16-IN a	nd list all calculated %Ds that are >30 Samples Affected	of the true value of
nstrument		True	Found			
nstrument		True	Found			

Analyte	Type of Blank	Date Blank Originated	Max. Conc. (units)	MDL or (-MDL) (units)	CRQL or (-CRQL) (units)	10xCRQL		Samples Affected	Action
							- 3-		
omments:									

		tion and negative blank results					
ler: Laboratory: Pre		Company: d) and Calibration (Instrume			cted: Y N	Date:	
Date Prepared	Date Analyzed	Blank Type (ICB/CCB#/Prep Blank)	Matrix	Instrument	Analyte	Concentration	Uni
Field: Equipmen	nt (Rinsate) and l	Bottle Blanks					
Date Sampled	Date Analyzed	Sample No. (Blank Type)	Matrix	Instrument	Analyte	Concentration	Uni
he proper number o	and the second of the second	at the proper frequency? Yes in all blanks within method			/ N		

.1 S	centration	of each c	contaminar	C.1		Contamin	ation Wo	rksheet						
					CCB				DDW	DDC	ED	DR	Max.	CRQL
Analyzed	ICB	1	2	3	4	5	6	7	PBW	FBS	БВ	DD	Conc.	CAQL
		Le concerno												
	se highest con	se highest concentration Date ICB	e highest concentration of each of Date	te highest concentration of each contaminar	SDO C.1 The highest concentration of each contaminant. Date ICB	SDG:	SDG:	SDG: C.1 Blank Contamination Wo the highest concentration of each contaminant. CCB CCB	SDG: C.1 Blank Contamination Worksheet the highest concentration of each contaminant. CCB CCB	SDG:	SDG:	SDG:	SDG:	SDG:

Magnesium Manganese Mercury Nickel Potassium Selenium Silver Sodium Thallium Vanadium Zinc Cyanide

	Data
x x 11 1	Date:
Validator:	

Date	Analyte	%R	ICSAB Found	ICSAB True	Analyte	TV ± CRQL	Conc. o	f Interfer		rved in	Associated Samples	Action
Date	Analyte		Conc.	Value	CRQL		Al	Ca	Fe	Mg		
-		+										

INORG-V	Data Validat /-B				SDG:							
	P-AES INTI				MPLE - IC	SA						
List all and	alytes in the I	CSA tha	t are outsic	de ICSA re	ecovery of 8	0-120% or outsid	le true valu	$e(TV) \pm$	CRQL, w	hichever	is greater.	
Date	Analyte	%R	ICSA Found	ICSA True	Analyte	TV ± CRQL	Conc. o	of Interfer		rved in	Associated Samples	Action
Date	Analyte	7010	Conc.	Value	CRQL	., _,,,,,	Al	Ca	Fe	Mg		Action
	1											
					4					-		
					-							
					5							
	1 7											
Comments:												
2.5.2											A	
Validator:											Date:	

Data	Amaluta	%R	ICSAB Found	ICSAB True	Analyte	TV ±			ents Obser		chever is greater. Associated Samples	Action
Date	Analyte	70 K	Conc.	Value	CRQL	2xCRQL	Al	Ca	Fe	Mg		- Tellon
									2 - 49			
											4	
-												
	- 1											

	CP-MS INT											
			ICSA	ICSA	Analyte	TV ±	Conc. of Interferents Observed in ICSA (ug/L)					
Date	Date Analyte %R	70K	Found Conc.	Value	True CPOI 2xCB	2xCRQL	Al	Ca	Fe	Mg	Associated Samples	Action
					1							
											+	
mments:												
imients.												

	standards that are out			iteria:	
Sample Number	Date and Time Analyzed	IS, amu	% RI	Analytes Affected (amu)	Action
			* -		
390					
Comments:				1.000	

		List all matrix spike		t are outside metho	d QC acceptan	ce criteria.		
		each matrix spike s						
Method	Analyte	Spiked Sample Result	Sample Result	Amount of Spike Added	MS % Recovery	Method QC Limits % Recovery	Post-Digest Spike % Recovery	Action
Comments:								

			olicate Samp					Matrix:	
	Sample	Sample		Duplicate	Duplicate		RPD	QC Acceptance	Action
Analyte	Conc.	SQL	5xSQL	Conc.	SQL	5xSQL	or Abs. Diff.	(RPD or Abs. Diff.)	Action
									_
			J. T						
				0			*		
	cate sample m	cate sample method QC acce	Cate sample method QC acceptance crit Sample Sampl	cate sample method QC acceptance criteria: Sample Sample Sample	Cate sample method QC acceptance criteria: Sample Sample Duplicate Conc	Cate sample method QC acceptance criteria: Duplicate Duplicat	Analyte Sample Sample Duplicate Duplicate Cone	Analyte Conc. SQL 5xSQL Conc. SQL 5xSQL or Abs. Diff.	Analyte Sample Conc. SQL SxSQL Duplicate Conc. SQL SxSQL SxS

FIELD D	UPLICATES	- List all field	duplicate	analytes tha	nt are outside c	riteria.				
e a separate	worksheet for	each field du	plicate pair	r.						
					ple No.:			-	Matrix:	
Method	Amoluto	Sample Conc.	Sa	mple	ple Duplicate		Duplicate		QC Acceptance	T Day of
	Analyte		SQL	5xSQL	Conc.	SQL	5xSQL	or Abs. Diff.	Criteria (RPD or Abs. Diff.)	Action
									= = = = =	
							1 -4			
fer to EPA	New England	d Data Revie	w Prograi	m Supplem	atory precision ental guidanc	e for field	l duplicate	actions (Section	on 2.9).	
				Contractor	Name:			Date	: Contacted:	

ORG-XI se:			SDG:			
. ICP SERIAL	DILUTIONS	1				
se a separate work	sheet for each	serial dilution sa	imple.			
ample No.:		Matrix:		Method:		
ist all serial dilutio	on analytes tha	t are outside met	hod QC acceptance	criteria.		
Difference metho	od QC accepta	nce criteria:	criteria (e.g. 50x N	NDI).		
Analyte	MDL	Min. Conc.	Sample Result	Serial Dilution Sample Result (corrected for	% D	Action
		Required		dilution)		
				L. L.		
Comments:						

Are more than one-half of the LCS analytes within criteria for each parameter and method? Date Prepared Date Prepared Parameter Method Matrix Analyte Matrix Analyte Matrix M	NORG-XI	1			SDG: _				
DG No.: Case: No.: Case: No.: Case: No.: Case: No.: Case: No.: No.: No.: No.: No.: Case: No.: No.: No.: No.: No.: No.: No.: No.	II. LABO	RATORY C	ONTROL SAI	MPLES					
Date Prepared Analyzed Parameter/ Method Matrix Analyte (or Observed Conc.) Method QC Acceptance Criteria Samples Affected Analyzed Analyzed Analyzed Method QC Acceptance Criteria	ist all analy	tes that are ou	itside criteria.						
Date Prepared Analyzed Parameter/ Method Matrix Analyte (or Observed Conc.) Method QC Acceptance Criteria Samples Affected Analyzed Analyzed Analyzed Method QC Acceptance Criteria	DG No.:		(Case:					
Date Prepared Date Analyzed Parameter/ Method Matrix Analyte (or Observed Conc.) Method QC Acceptance Criteria Samples Affected Analyzed Conc.)							nethod? Y	N	
	Date	Date	Parameter/	27-2		% Recovery	Method QC		Action
Comments:						Conc.)	Criteria		
Comments:									
Comments:									
Comments:									
Comments:									
Comments:									
Comments:									
Comments:									
Comments:			7						
Comments:									
Comments:									
Comments:									
	Comments:								
Date:									

INORG-XI	Ш	tion Workshee	et	SDG:					
Case:				300.		100			
XIII. PERI	FORMANC	E EVALUATI	ON SAMP	LES					
List all analy	tes that are o	utside criteria.							
Indicate the	source of the	PES:	Region 1	EPA PES		Non-EPA F	PES		
Are more tha	n one-half o	f the PES analy	tes within cr	riteria for ea	ch parameter	and metho	d? Y	N	Na
PE Sample Number	Ampule Number	Parameter/ Method	Type of PES	Matrix	Analyte	Conc.	PES Score*	Samples Affected	Action
				2.91					
								,	
For Non-E Refer to EPA	PA PESs indic New England	ate the Region I F cate the Non-EPA Data Review Pro	A PES Score: ogram Supple	PES Analyte emental guid	e Missed; PES ance for EPA	Analyte Cor PES and act	ntaminant; PES ions (Section 2.	Analyte Hit (% Recovery Limits).	
the second secon	400								
V-1: Joseph								Date	

EPA-NE - Data Validation Workshe	eet eet
INORG-XIV Case:	SDG:
Recalculate, from the raw data, the concent analytical method Do all soil/sediment samples have % solids If no, were any steps employed to addr Indicate the action and list the affected	N, REPORTED QUANTITATION LIMITS AND % SOLIDS trations for one positive detect and one reported sample quantitation limit for a non-detect in a diluted sample or soil sample per a greater than 30%? Y N ress the high moisture content?
Method	Calculation
ICP-AES	
Sample No.:	
Reported Analyte:	
Reported Value:	
Non-Detected Analyte:	
Reported Quantitation Limit:	
ICP-MS	
Sample No.:	
Reported Analyte:	
Reported Value:	
Non-Detected Analyte:	
Reported Quantitation Limit:	
Mercury	
Sample No.:	
Reported Value:	
Sample No.:	
Reported Quantitation Limit:	
Cyanide	
Sample No.:	
Reported Value:	
Sample No.:	
Reported Quantitation Limit:	
Validator:	Date: