

## INORG

SDG: \_\_\_\_\_

## Inorganic Parameters: \_\_\_\_\_

Date Received

[illegible]

Date: \_\_\_\_\_

**Case:**

Circle sample numbers with exceeded technical holding times or omitted preservation.  
Circle all exceeded technical holding times.

Circle sample numbers with exceeded technical holding times or omitted preservation.  
Circle all exceeded technical holding times.

**Preservation Code:**

- Action Code:**

- Sampler: \_\_\_\_\_ Company: \_\_\_\_\_ Contacted: Y N Date: \_\_\_\_\_

Date: \_\_\_\_\_

## INORG-II

SDG: \_\_\_\_\_

List all Tunes that are outside method QC acceptance criteria. Use a separate sheet if more than one instrument was used for sample analysis.

Method QC acceptance criteria for mass calibration: \_\_\_\_\_

Method QC acceptance criteria for resolution check/peak width: \_\_\_\_\_ at \_\_\_\_\_ % peak height.

Method QC acceptance criteria for % RSD: \_\_\_\_\_

Validator: \_\_\_\_\_

Date: \_\_\_\_\_

**INORG-III-C/D**

Case: \_\_\_\_\_

SDG: \_\_\_\_\_

**III. CALIBRATIONS****C. Initial and Continuing Calibration Verifications** - List all ICV and CCV analyte recoveries that are outside the method QC acceptance criteria.

ICV method QC acceptance criteria: \_\_\_\_\_ CCV method QC acceptance criteria: \_\_\_\_\_

Date/Time	Instrument ID	Analyte	ICV/CCV #	% R	Samples Affected	Action

**D. Quantitation Limit Check Standard** - List all QL Check Standard analytes that are outside method QC acceptance criteria (for non-CLP methods).

QL Check Standard method QC acceptance criteria: \_\_\_\_\_

Date	Instr.	Analyte	QL Check Std. #	% R	Affected Range	Samples Affected	Action

Comments: \_\_\_\_\_

## EPA-NE - Data Validation Worksheet

## INORG-III-A/B

Case: \_\_\_\_\_

SDG: \_\_\_\_\_

## III. CALIBRATIONS

**A. Initial Calibration** - List all calibration correlation coefficients that are outside the method QC acceptance criteria and/or the y-intercept of the calibration curve that is >CRQL.

Calibration correlation QC acceptance criteria: \_\_\_\_\_

Calibration Type: \_\_\_\_\_

Date/Time	Instrument ID	Analyte	Correlation Coefficient.	y-Intercept	CRQL	Samples Affected	Action

**B. Initial Calibration Standard Concentration Verifications** – Review CLP Form 16-IN and list all calculated %Ds that are >30 of the true value of any non-zero standard.

Date/time	Instrument ID	Analyte	True Conc.	Found Conc.	%D	Samples Affected	Action

Comments: \_\_\_\_\_

Validator: \_\_\_\_\_

Date: \_\_\_\_\_

EPA-NE - Data Validation Worksheet  
INORG-IV-C.2

Case: \_\_\_\_\_ SDG: \_\_\_\_\_

IV. BLANKS

C.2 Blank Actions - List the maximum concentrations of each analyte among all blanks associated with each sample.

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

Comments: \_\_\_\_\_

Refer to EPA New England Data Review Program Supplemental guidance for blank contamination actions (Section 2.6).

Validator: \_\_\_\_\_ Date: \_\_\_\_\_

## EPA-NE - Data Validation Worksheet

**INORG-IV-A/B**

Case: \_\_\_\_\_

SDG: \_\_\_\_\_

**IV. BLANKS** - List the blank contamination and negative blank results below.

Sampler: \_\_\_\_\_

Company: \_\_\_\_\_

Contacted: Y N

Date: \_\_\_\_\_

**A. Laboratory: Preparation (Method) and Calibration (Instrument) Blanks**

Date Prepared	Date Analyzed	Blank Type (ICB/CCB#/Prep Blank)	Matrix	Instrument	Analyte	Concentration	Units

**B. Field: Equipment (Rinsate) and Bottle Blanks**

Date Sampled	Date Analyzed	Sample No. (Blank Type)	Matrix	Instrument	Analyte	Concentration	Units

Were the proper number of blanks analyzed at the proper frequency? Y N

For ICP MS - Are internal standard responses in all blanks within method QC acceptance criteria? Y N

Comments: \_\_\_\_\_

Validator: \_\_\_\_\_

Date: \_\_\_\_\_



**INORG-IV-C.1**

#### IV. BLANKS

### C.1 Blank Contamination Worksheet

[illegible]

Date: \_\_\_\_\_



Case: \_\_\_\_\_

SDG: \_\_\_\_\_

### V. A. ICP-AES INTERFERENCE CHECK SAMPLE - ICSAB

List all analytes in the ICSAB that are outside ICSAB recovery of 80-120% or outside true value (TV)  $\pm$  CRQL, whichever is greater.

[illegible]

Validator: \_\_\_\_\_

Date: \_\_\_\_\_

**INORG-V-B**

SDG: \_\_\_\_\_

List all analytes in the ICSA that are outside ICSA recovery of 80-120% or outside true value (TV)  $\pm$  CRQL, whichever is greater.

[illegible]

Comments:

Date: \_\_\_\_\_

## INORG-VI-A

SDG: \_\_\_\_\_

List all analytes in the ICSAB that are outside ICSAB recovery of 80-120% or outside true value (TV)  $\pm 2 \times \text{CRQL}$ , whichever is greater.

[illegible]

Date: \_\_\_\_\_

## INORG-VI-B

SDG: 11

List all analytes in the ICSA that are outside ICSA recovery of 80-120% or outside true value (TV)  $\pm 2 \times \text{CRQL}$ , whichever is greater.

Validator: \_\_\_\_\_

Date: \_\_\_\_\_

## INORG-VII

SDG: \_\_\_\_\_

List all internal standards that are outside method QC acceptance criteria.

Method: \_\_\_\_\_ Method QC acceptance criteria: \_\_\_\_\_

Validator: \_\_\_\_\_

Date: \_\_\_\_\_

## INORG-VIII

Case: \_\_\_\_\_

SDG: \_\_\_\_\_

Use a separate worksheet for each matrix spike sample.

Sample No.: \_\_\_\_\_

Matrix: \_\_\_\_\_

[illegible]

Refer to EPA New England Data Review Program Supplemental guidance for additional matrix spike actions (Section 2.12).

Validator: \_\_\_\_\_

Date: \_\_\_\_\_

## INORG-IX

SDG: \_\_\_\_\_

Use a separate worksheet for each laboratory duplicate sample.

Matrix: \_\_\_\_\_

Laboratory duplicate sample method QC acceptance criteria: \_\_\_\_\_

[illegible]

Do the field duplicate sample data indicate acceptable field precision?      Y      N

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Date: \_\_\_\_\_



## INORG-X

SDG: \_\_\_\_\_

Use a separate worksheet for each field duplicate pair.

Matrix:

[illegible]

Refer to EPA New England Data Review Program Supplemental guidance for field duplicate actions (Section 2.9).

Comments: \_\_\_\_\_

Sampler Name: \_\_\_\_\_ Contractor Name: \_\_\_\_\_ Date Contacted: \_\_\_\_\_

Reason for contact and resolution obtained: \_\_\_\_\_

Date: \_\_\_\_\_

## EPA-NE - Data Validation Worksheet

**INORG-XI**

Case: \_\_\_\_\_

SDG: \_\_\_\_\_

**XI. ICP SERIAL DILUTIONS**

Use a separate worksheet for each serial dilution sample.

Sample No.: \_\_\_\_\_ Matrix: \_\_\_\_\_ Method: \_\_\_\_\_

List all serial dilution analytes that are outside method QC acceptance criteria.

% Difference method QC acceptance criteria: \_\_\_\_\_

Minimum concentration required to apply the % D criteria (e.g., 50x MDL): \_\_\_\_\_

Analyte	MDL	Min. Conc. Required	Sample Result	Serial Dilution Sample Result (corrected for dilution)	% D	Action
Comments:						

Validator: \_\_\_\_\_

Date: \_\_\_\_\_

## EPA-NE - Data Validation Worksheet

**INORG-XII**

Case: \_\_\_\_\_

SDG: \_\_\_\_\_

**XII. LABORATORY CONTROL SAMPLES**

List all analytes that are outside criteria.

SDG No.: \_\_\_\_\_ Case: \_\_\_\_\_

Are more than one-half of the LCS analytes within criteria for each parameter and method?      Y      N

Date Prepared	Date Analyzed	Parameter/ Method	Matrix	Analyte	% Recovery (or Observed Conc.)	Method QC Acceptance Criteria	Samples Affected	Action
Comments:								

Validator: \_\_\_\_\_

Date: \_\_\_\_\_

EPA-NE - Data Validation Worksheet

**INORG-XIII**

Case: \_\_\_\_\_

SDG: \_\_\_\_\_

**XIII. PERFORMANCE EVALUATION SAMPLES**

List all analytes that are outside criteria.

Indicate the source of the PES:                      Region I EPA PES                      Non-EPA PES

Are more than one-half of the PES analytes within criteria for each parameter and method?                      Y                      N

PE Sample Number	Ampule Number	Parameter/ Method	Type of PES	Matrix	Analyte	Conc.	PES Score*	Samples Affected	Action

\* For Region I PESs indicate the Region I PES Score Report Result: Action High, Action Low, Analyte Missed, Contaminant.  
 For Non-EPA PESs indicate the Non-EPA PES Score: PES Analyte Missed; PES Analyte Contaminant; PES Analyte Hit (% Recovery Limits).  
 Refer to EPA New England Data Review Program Supplemental guidance for EPA PES and actions (Section 2.7).

Comments: \_\_\_\_\_

Validator: \_\_\_\_\_

Date: \_\_\_\_\_

EPA-NE - Data Validation Worksheet

**INORG-XIV**

Case: \_\_\_\_\_

SDG: \_\_\_\_\_

**XIV. ANALYTE QUANTITATION, REPORTED QUANTITATION LIMITS AND % SOLIDS**

Recalculate, from the raw data, the concentrations for one positive detect and one reported sample quantitation limit for a non-detect in a diluted sample or soil sample per analytical method

Do all soil/sediment samples have % solids greater than 30%?      **Y**      **N**

- If no, were any steps employed to address the high moisture content? \_\_\_\_\_
- Indicate the action and list the affected sample nos.: \_\_\_\_\_

Refer to EPA New England Data Review Supplemental Program guidance for actions related to %solids (Section 2.10).

Method		Calculation
<b>ICP-AES</b>		
Sample No.:		
Reported Analyte:		
Reported Value:		
Non-Detected Analyte:		
Reported Quantitation Limit:		
<b>ICP-MS</b>		
Sample No.:		
Reported Analyte:		
Reported Value:		
Non-Detected Analyte:		
Reported Quantitation Limit:		
<b>Mercury</b>		
Sample No.:		
Reported Value:		
Sample No.:		
Reported Quantitation Limit:		
<b>Cyanide</b>		
Sample No.:		
Reported Value:		
Sample No.:		
Reported Quantitation Limit:		

Validator: \_\_\_\_\_

Date: \_\_\_\_\_