



Lab Number: L2540791

Client: Phoenix Environmental

ATTN: James Barish

Project Name: RAMSEY SD

Project Number: RAMSEY SD

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**Title Page - NJDEP**

**ANALYTICAL DATA PACKAGE FOR THE  
NEW JERSEY DEPARTMENT OF ENVIRONMENTAL PROTECTION  
TRENTON NEW JERSEY 08625**

|                                                 |                                 |                                                |                                |
|-------------------------------------------------|---------------------------------|------------------------------------------------|--------------------------------|
| <b>Agency/Division:</b>                         |                                 | <b>Bureau/Office:</b>                          |                                |
| <b>Project No:</b> RAMSEY SD                    |                                 | <b>Contract No:</b>                            |                                |
| <b>Laboratory:</b> Pace Analytical Services     |                                 | <b>Laboratory Location:</b> Westborough, Ma.   |                                |
|                                                 |                                 | <b>Laboratory Phone Number:</b> (508) 898-9220 |                                |
| <b>SDG No:</b> L2540791                         |                                 | <b>NJDEP Certification #:</b> MA935/MA015      |                                |
| <b>Date of First Sample Receipt:</b> 06/27/2025 |                                 | <b>Date of Last Sample Receipt:</b> 06/27/2025 |                                |
| <b>Agency Sample Number</b>                     | <b>Laboratory Sample Number</b> | <b>Sample Location</b>                         | <b>Date/Time of Collection</b> |
| 13-0627-01A                                     | L2540791-01                     | RAMSEY SD                                      | 06/27/2025 13:34               |
| 13-0627-01B                                     | L2540791-02                     | RAMSEY SD                                      | 06/27/2025 13:34               |

I certify that this data package is in compliance with the terms and conditions of this contract, both technically and for completeness, for other than the conditions detailed above. Release of the data contained in this hardcopy data package and in the computer-readable data submitted on disk or electronically has been authorized by the laboratory director or his/her designee, as verified by the following signature.

|                                                               |                 |
|---------------------------------------------------------------|-----------------|
| <b>Technical Director/Representative (Typed)</b> Kelly ONeill | <b>07/02/25</b> |
|---------------------------------------------------------------|-----------------|

|                                                      |  |
|------------------------------------------------------|--|
| <b>Technical Director/Representative (Signature)</b> |  |
|------------------------------------------------------|--|

*Kelly ONeill*

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# **Chain of Custody**



NEW JERSEY  
CHAIN OF  
CUSTODY

Westborough, MA 01581  
8 Walkup Dr.  
TEL: 508-898-9220  
FAX: 508-898-9193

Mansfield, MA 02048  
320 Forbes Blvd  
TEL: 508-822-9300  
FAX: 508-822-3288

Service Centers

Mahwah, NJ 07430: 35 Whitney Rd, Suite 5  
Albany, NY 12205: 14 Walker Way  
Tonawanda, NY 14150: 275 Cooper Ave, Suite 105

Page

1 of 1

Date Rec'd  
In Lab 6/27/25

L2540791  
PHOENIX - NJ



Project Information

Project Name: Ramsey SD  
Project Location: Ramsey HS

Project #

(Use Project name as Project #) ☐

Project Manager: Jim Barish

ALPHAQuote #:

Turn-Around Time

Standard ☐

Due Date: 6/30/25

Rush (only if pre approved) ☒

# of Days: 1

Deliverables

☒ NJ Full ☒ Reduced  
☐ EQUIS (1 File) ☐ EQUIS (4 File)  
☐ Other

Billing Information

☒ Same as Client Info

PO #

Regulatory Requirement

☐ SRS Residential/Non Residential  
☐ SRS Impact to Groundwater  
☒ NJ Ground Water Quality Standards  
☐ NJ IGW SPLP Leachate Criteria  
☐ Other

Site Information

Is this site impacted by  
Petroleum? Yes ☒

Petroleum Product:

gasoline/fuel oil

Client Information

Client: Phoenix - NJ

Address:

Phone: 267-221-1481

Fax:

Email: jibphoenixenviro@optonline.net

These samples have been previously analyzed by Alpha ☐

For EPH, selection is  
REQUIRED:

☐ Category 1  
☐ Category 2

For VOC, selection  
is REQUIRED:

☐ 1,4-Dioxane  
☐ 8011

Other project specific requirements/comments:

email results to: jibphoenixenviro@optonline.net

Please specify Metals or TAL.

ANALYSIS

Dissolved TAL  
Metals 6020/Hg

Total TAL  
Metals 6020

Sample Filtration

☐ Done  
☒ Lab to do  
Preservation  
☐ Lab to do

(Please Specify below)

Sample Specific Comments

ALPHA Lab ID  
(Lab Use Only)

Sample ID

Collection

Date

Time

Sample  
Matrix

Sampler's  
Initials

40741-01

13-0627-01A

6/27/25

13:34

water

JB

X

X

Garage Area

-02

13-0627-01B

6/27/25

13:34

water

JB

X

X

Garage Area

Preservative Code:

A = None  
B = HCl  
C = HNO<sub>3</sub>  
D = H<sub>2</sub>SO<sub>4</sub>  
E = NaOH  
F = MeOH  
G = NaHSO<sub>4</sub>  
H = Na<sub>2</sub>S<sub>2</sub>O<sub>3</sub>  
K/E = Zn Ac/NaOH  
O = Other

Container Code

P = Plastic  
A = Amber Glass  
V = Vial  
G = Glass  
B = Bacteria Cup  
C = Cube  
O = Other  
E = Encore  
D = BOD Bottle

Westboro: Certification No: MA935

Mansfield: Certification No: MA015

Container Type

P P

Preservative

A C

Relinquished By:

Date/Time

Received By:

Date/Time

JB 6/27/25 14:10

JB 6/27/25 14:10

JB 6/27/25 14:10

JB 6/27/25 14:10

JB 6/27/25 14:10

JB 6/27/25 14:10

Form No: 01-14 HC (rev. 30-Sept-2013)

Please print clearly, legibly  
and completely. Samples can  
not be logged in and  
turnaround time clock will not  
start until any ambiguities are  
resolved. BY EXECUTING  
THIS COC, THE CLIENT  
HAS READ AND AGREES  
TO BE BOUND BY ALPHA'S  
TERMS & CONDITIONS.  
(See reverse side.)

PACE ANALYTICAL SERVICES  
LOGIN CHAIN OF CUSTODY REPORT  
Jul 02 2025, 06:54 pm

Login Number: L2540791

Account: PHOENIX-NJ Phoenix Environmental Project: RAMSEY SD

Received: 27JUN25 Due Date: 30JUN25

| Sample #                                                                                                                                                                                                                                                                                                                                                                            | Client ID   | Mat PR Collected   |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------|--------------------|
| L2540791-01                                                                                                                                                                                                                                                                                                                                                                         | 13-0627-01A | 1 1A 27JUN25 13:34 |
| NJ-RED Package Due Date: 06/30/25                                                                                                                                                                                                                                                                                                                                                   |             |                    |
| DISPOSAL, ENVIMPACT-FEE, NJ-RED, NJ-TAL-S, AG-6020S-PPB, AL-6020S-PPB, AS-6020S-PPB, BA-6020S-PPB, BE-6020S-PPB, CA-6020S-PPB, CD-6020S-PPB, CO-6020S-PPB, CR-6020S-PPB, CU-6020S-PPB, FE-6020S-PPB, HG-S-PPB, K-6020S-PPB, MG-6020S-PPB, MN-6020S-PPB, NA-6020S-PPB, NI-6020S-PPB, PB-6020S-PPB, PREPS, SB-6020S-PPB, SE-6020S-PPB, TL-6020S-PPB, V-6020S-PPB, ZN-6020S-PPB, NJDEP |             |                    |
| L2540791-02                                                                                                                                                                                                                                                                                                                                                                         | 13-0627-01B | 1 1A 27JUN25 13:34 |
| Package Due Date: 06/30/25                                                                                                                                                                                                                                                                                                                                                          |             |                    |
| NJ-TAL, AG-6020T-PPB, AL-6020T-PPB, AS-6020T-PPB, BA-6020T-PPB, BE-6020T-PPB, CA-6020T-PPB, CD-6020T-PPB, CO-6020T-PPB, CR-6020T-PPB, CU-6020T-PPB, FE-6020T-PPB, HG-T-PPB, K-6020T-PPB, MG-6020T-PPB, MN-6020T-PPB, NA-6020T-PPB, NI-6020T-PPB, PB-6020T-PPB, PREPT, SB-6020T-PPB, SE-6020T-PPB, TL-6020T-PPB, V-6020T-PPB, ZN-6020T-PPB                                           |             |                    |

# PACE ANALYTICAL SERVICES Container Tracking Report

| Container ID | Type           | Status | Transaction Date | From Response                  | Location                       | To Operator         | Response                       | Location                       | Operator            |
|--------------|----------------|--------|------------------|--------------------------------|--------------------------------|---------------------|--------------------------------|--------------------------------|---------------------|
| L2540791-01A | Plastic-A.25   | EMPTY  | 28-JUN-25        |                                | ORGPREP                        | Isabel Quintus-Bosz | CUSTODY                        | CUSTODY                        | Isabel Quintus-Bosz |
| L2540791-01A | Plastic-A.25   | INTACT | 28-JUN-25        | CUSTODY                        | CUSTODY                        | John Awuah          | ORGPREP                        | ORGPREP                        | John Awuah          |
| L2540791-01A | Plastic-A.25   | INTACT | 28-JUN-25        | LOGIN                          | LOGIN                          | Owen Jefferson      | CUSTODY                        | CUSTODY                        | Owen Jefferson      |
| L2540791-01X | FPlastic-C.120 | INTACT | 30-JUN-25        | A2-CUSTODY-REFRIDGE            | A2-METALS PREP                 | Aidan Martin        | A2-CUSTODY-WH-2A               | A2-CUSTODY-WH-2A               | Aidan Martin        |
| L2540791-01X | FPlastic-C.120 | INTACT | 30-JUN-25        | A2-CUSTODY-REFRIDGE            | A2-CUSTODY-METPREP1            | Aidan Martin        | A2-METALS PREP                 | A2-METALS PREP                 | Aidan Martin        |
| L2540791-01X | FPlastic-C.120 | INTACT | 28-JUN-25        | A2-CUSTODY-REFRIDGE            | A2-CUSTODY                     | Bethany Bedard      | A2-CUSTODY-METPREP1            | A2-CUSTODY-METPREP1            | Bethany Bedard      |
| L2540791-01X | FPlastic-C.120 | INTACT | 28-JUN-25        | TRANSIT COURIER                | COOLER69_TRANSFER_TO_MANSFIELD | Isabel Quintus-Bosz | A2-CUSTODY                     | A2-CUSTODY                     | Adam Plummer        |
| L2540791-01X | FPlastic-C.120 | INTACT | 28-JUN-25        | COOLER69_TRANSFER_TO_MANSFIELD | COOLER69_TRANSFER_TO_MANSFIELD | Isabel Quintus-Bosz | TRANSIT COURIER                | COOLER69_TRANSFER_TO_MANSFIELD | Isabel Quintus-Bosz |
| L2540791-01X | FPlastic-C.120 | INTACT | 28-JUN-25        |                                | CUSTODY                        | Isabel Quintus-Bosz | COOLER69_TRANSFER_TO_MANSFIELD | COOLER69_TRANSFER_TO_MANSFIELD | Isabel Quintus-Bosz |
| L2540791-01X | FPlastic-C.120 | INTACT | 28-JUN-25        | LOGIN                          | LOGIN                          | Owen Jefferson      | CUSTODY                        | CUSTODY                        | Owen Jefferson      |
| L2540791-02A | Plastic-C.25   | INTACT | 30-JUN-25        | A2-CUSTODY-REFRIDGE            | A2-METALS PREP                 | Aidan Martin        | A2-CUSTODY-WH-2A               | A2-CUSTODY-WH-2A               | Aidan Martin        |
| L2540791-02A | Plastic-C.25   | INTACT | 30-JUN-25        | A2-CUSTODY-REFRIDGE            | A2-CUSTODY-METPREP1            | Aidan Martin        | A2-METALS PREP                 | A2-METALS PREP                 | Aidan Martin        |
| L2540791-02A | Plastic-C.25   | INTACT | 28-JUN-25        | A2-CUSTODY-REFRIDGE            | A2-CUSTODY                     | Bethany Bedard      | A2-CUSTODY-METPREP1            | A2-CUSTODY-METPREP1            | Bethany Bedard      |
| L2540791-02A | Plastic-C.25   | INTACT | 28-JUN-25        | TRANSIT COURIER                | COOLER35-TRANSFER_TO_MANSFIELD | Owen Jefferson      | A2-CUSTODY                     | A2-CUSTODY                     | Ashley Lang         |
| L2540791-02A | Plastic-C.25   | INTACT | 28-JUN-25        | COOLER35-TRANSFER_TO_MANSFIELD | COOLER35-TRANSFER_TO_MANSFIELD | Owen Jefferson      | TRANSIT COURIER                | COOLER35-TRANSFER_TO_MANSFIELD | Owen Jefferson      |
| L2540791-02A | Plastic-C.25   | INTACT | 28-JUN-25        | CUSTODY                        | CUSTODY                        | Owen Jefferson      | COOLER35-TRANSFER_TO_MANSFIELD | COOLER35-TRANSFER_TO_MANSFIELD | Owen Jefferson      |
| L2540791-02A | Plastic-C.25   | INTACT | 28-JUN-25        | LOGIN                          | LOGIN                          | Owen Jefferson      | CUSTODY                        | CUSTODY                        | Owen Jefferson      |



# **Methodology Review**

**Project Name:** RAMSEY SD  
**Project Number:** RAMSEY SD

**Lab Number:** L2540791  
**Report Date:** 07/02/25

## REFERENCES

- 1 Test Methods for Evaluating Solid Waste: Physical/Chemical Methods. EPA SW-846. Third Edition. Updates I - VI, 2018.

## LIMITATION OF LIABILITIES

Alpha Analytical performs services with reasonable care and diligence normal to the analytical testing laboratory industry. In the event of an error, the sole and exclusive responsibility of Alpha Analytical shall be to re-perform the work at it's own expense. In no event shall Alpha Analytical be held liable for any incidental, consequential or special damages, including but not limited to, damages in any way connected with the use of, interpretation of, information or analysis provided by Alpha Analytical.

We strongly urge our clients to comply with EPA protocol regarding sample volume, preservation, cooling, containers, sampling procedures, holding time and splitting of samples in the field.



# **Laboratory Chronicle**

**Project Name:** RAMSEY SD

**Project Number:** RAMSEY SD

**Lab Number:** L2540791

**Report Date:** 07/02/25

**Sample Receipt and Container Information**

Were project specific reporting limits specified?

YES

**Cooler Information**

| Cooler | Custody Seal |
|--------|--------------|
| A      | Absent       |

**Container Information**

| Container ID | Container Type                         | Cooler | Initial pH | Final pH | Temp deg C | Pres | Seal   | Frozen Date/Time | Analysis(*)                                                                                                                                                                                                                                                                                                                                                                                                            |
|--------------|----------------------------------------|--------|------------|----------|------------|------|--------|------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| L2540791-01A | Plastic 250ml unpreserved              | NA     | NA         |          |            | Y    | Absent |                  | -                                                                                                                                                                                                                                                                                                                                                                                                                      |
| L2540791-01X | Plastic 120ml HNO3 preserved Filtrates | NA     | NA         |          |            | Y    | Absent |                  | PB-6020S-PPB(180),AG-6020S-PPB(180),K-6020S-PPB(180),BE-6020S-PPB(180),TL-6020S-PPB(180),ZN-6020S-PPB(180),HG-S-PPB(28),CD-6020S-PPB(180),CU-6020S-PPB(180),CO-6020S-PPB(180),MN-6020S-PPB(180),CR-6020S-PPB(180),AS-6020S-PPB(180),SB-6020S-PPB(180),BA-6020S-PPB(180),CA-6020S-PPB(180),MG-6020S-PPB(180),V-6020S-PPB(180),FE-6020S-PPB(180),NA-6020S-PPB(180),NI-6020S-PPB(180),AL-6020S-PPB(180),SE-6020S-PPB(180) |
| L2540791-02A | Plastic 250ml HNO3 preserved           | NA     | <2         | <2       |            | Y    | Absent |                  | AL-6020T-PPB(180),CO-6020T-PPB(180),CR-6020T-PPB(180),HG-T-PPB(28),SB-6020T-PPB(180),BE-6020T-PPB(180),CD-6020T-PPB(180),CA-6020T-PPB(180),CU-6020T-PPB(180),BA-6020T-PPB(180),TL-6020T-PPB(180),AS-6020T-PPB(180),PB-6020T-PPB(180),AG-6020T-PPB(180),K-6020T-PPB(180),FE-6020T-PPB(180),NA-6020T-PPB(180),NI-6020T-PPB(180),MG-6020T-PPB(180),ZN-6020T-PPB(180),MN-6020T-PPB(180),SE-6020T-PPB(180),V-6020T-PPB(180) |

**NJ DEP**  
**Data of Known Quality Protocols**  
**Conformance/Non-Conformance**  
**Summary Questionnaire**

**Project Name:** RAMSEY SD  
**Project Number:** RAMSEY SD

**Lab Number:** L2540791  
**Report Date:** 07/02/25

**NJ DEP Data of Known Quality Protocols  
Conformance/Non-Conformance  
Summary Questionnaire**

|    |                                                                                                                                                                                                                                                                                                     |     |
|----|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----|
| 1  | For each analytical method referenced in this laboratory report package, were all specified QA/QC performance criteria followed, including the requirement to explain any criteria falling outside of acceptable guidelines, as specified in the NJDEP Data of Known Quality performance standards? | YES |
| 1a | Were the method specified handling, preservation, and holding time requirements met?                                                                                                                                                                                                                | YES |
| 1b | EPH Method: Was the EPH Method conducted without significant modifications (see Section 11.3 of respective DKQ methods)?                                                                                                                                                                            | N/A |
| 2  | Were all samples received by the laboratory in a condition consistent with that described on the associated chain-of-custody document(s)?                                                                                                                                                           | YES |
| 3  | Were all samples received at an appropriate temperature ( $4 \pm 2^{\circ} \text{C}$ )?                                                                                                                                                                                                             | YES |
| 4  | Were all QA/QC performance criteria specified in the NJDEP DKQP standards achieved?                                                                                                                                                                                                                 | NO  |
| 5a | Were reporting limits specified or referenced on the chain-of-custody or communicated to the laboratory prior to sample receipt?                                                                                                                                                                    | YES |
| 5b | Were these reporting limits met?                                                                                                                                                                                                                                                                    | NO  |
| 6  | For each analytical method referenced in this laboratory report package, were results reported for all constituents identified in the method-specific analyte lists presented in the DKQP documents and/or site-specific QAPP?                                                                      | YES |
| 7  | Are project-specific matrix spikes and/or laboratory duplicates included in this data set?                                                                                                                                                                                                          | YES |

**Note:** For all questions to which the response was "No" (with the exception of question #7), additional information must be provided in an attached narrative. If the answer to question #1, #1a or #1b is "No", the data package does not meet the requirements for "Data of Known Quality".



# **Conformance/Non-Conformance Summary**

**Project Name:** RAMSEY SD  
**Project Number:** RAMSEY SD

**Lab Number:** L2540791  
**Report Date:** 07/02/25

### Case Narrative

The samples were received in accordance with the Chain of Custody and no significant deviations were encountered during the preparation or analysis unless otherwise noted. Sample Receipt, Container Information, and the Chain of Custody are located at the back of the report.

Results contained within this report relate only to the samples submitted under this Pace Lab Number and meet NELAP requirements for all NELAP accredited parameters unless otherwise noted in the following narrative. The data presented in this report is organized by parameter (i.e. VOC, SVOC, etc.). Sample specific Quality Control data (i.e. Surrogate Spike Recovery) is reported at the end of the target analyte list for each individual sample, followed by the Laboratory Batch Quality Control at the end of each parameter. Tentatively Identified Compounds (TICs), if requested, are reported for compounds identified to be present and are not part of the method/program Target Compound List, even if only a subset of the TCL are being reported. If a sample was re-analyzed or re-extracted due to a required quality control corrective action and if both sets of data are reported, the Laboratory ID of the re-analysis or re-extraction is designated with an "R" or "RE", respectively. When multiple Batch Quality Control elements are reported (e.g. more than one LCS), the associated samples for each element are noted in the grey shaded header line of each data table. Any Laboratory Batch, Sample Specific % recovery or RPD value that is outside the listed Acceptance Criteria is bolded in the report. All specific QC information is also incorporated in the Data Usability format of our Data Merger tool where it can be reviewed along with any associated usability implications. Soil/sediments, solids and tissues are reported on a dry weight basis unless otherwise noted. Definitions of all data qualifiers and acronyms used in this report are provided in the Glossary located at the back of the report.

In reference to questions H (CAM) or 4 (RCP) when "NO" is checked, the performance criteria for CAM and RCP methods allow for some quality control failures to occur and still be within method compliance. In these instances the specific failure is not narrated but noted in the associated QC table. The information is also incorporated in the Data Usability format of our Data Merger tool where it can be reviewed along with any associated usability implications.

Please see the associated ADEx data file for a comparison of laboratory reporting limits that were achieved with the regulatory Numerical Standards requested on the Chain of Custody.

#### HOLD POLICY

For samples submitted on hold, Pace's policy is to hold samples (with the exception of Air canisters) free of charge for 21 calendar days from the date the project is completed. After 21 calendar days, we will dispose of all samples submitted including those put on hold unless you have contacted your Client Service Representative and made arrangements for Pace to continue to hold the samples. Air canisters will be disposed after 3 business days from the date the project is completed.

Please contact Client Services at 800-624-9220 with any questions.



**Project Name:** RAMSEY SD  
**Project Number:** RAMSEY SD

**Lab Number:** L2540791  
**Report Date:** 07/02/25

**Case Narrative (continued)**

Report Submission

All non-detect (ND) or estimated concentrations (J-qualified) have been quantitated to the limit noted in the MDL column.

DKQP Related Narratives

Dissolved Metals

In reference to question 5b:

L2540791-01: One or more of the target analytes did not achieve the requested regulatory limits.

In reference to question 4:

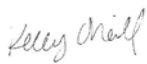
The WG2085103-3 MS recovery performed on L2540791-01 does not apply for sodium (68%) because the sample concentration is greater than four times the spike amount added.

Total Metals

In reference to question 5b:

L2540791-02: One or more of the target analytes did not achieve the requested regulatory limits.

I, the undersigned, attest under the pains and penalties of perjury that, to the best of my knowledge and belief and based upon my personal inquiry of those responsible for providing the information contained in this analytical report, such information is accurate and complete. This certificate of analysis is not complete unless this page accompanies any and all pages of this report.

Authorized Signature:   
Title: Technical Director/Representative

Report Date: 07/02/25

# Glossary

## DATA PACKAGE GLOSSARY

### Acronyms

|          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
|----------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| DL       | - Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the limit of quantitation (LOQ). The DL includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.)                                                                                                                                                                |
| EDL      | - Estimated Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the reporting limit (RL). The EDL includes any adjustments from dilutions, concentrations or moisture content, where applicable. The use of EDLs is specific to the analysis of PAHs using Solid-Phase Microextraction (SPME).                                                                                         |
| EMPC     | - Estimated Maximum Possible Concentration: The concentration that results from the signal present at the retention time of an analyte when the ions meet all of the identification criteria except the ion abundance ratio criteria. An EMPC is a worst-case estimate of the concentration.                                                                                                                                                                                                                               |
| EPA      | - Environmental Protection Agency.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| LCS      | - Laboratory Control Sample: A sample matrix, free from the analytes of interest, spiked with verified known amounts of analytes or a material containing known and verified amounts of analytes.                                                                                                                                                                                                                                                                                                                          |
| LCSD     | - Laboratory Control Sample Duplicate: Refer to LCS.                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| LFB      | - Laboratory Fortified Blank: A sample matrix, free from the analytes of interest, spiked with verified known amounts of analytes or a material containing known and verified amounts of analytes.                                                                                                                                                                                                                                                                                                                         |
| LOD      | - Limit of Detection: This value represents the level to which a target analyte can reliably be detected for a specific analyte in a specific matrix by a specific method. The LOD includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.)                                                                                                                                                                                                               |
| LOQ      | - Limit of Quantitation: The value at which an instrument can accurately measure an analyte at a specific concentration. The LOQ includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.)<br><br>Limit of Quantitation: The value at which an instrument can accurately measure an analyte at a specific concentration. The LOQ includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.) |
| MDL      | - Method Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the reporting limit (RL). The MDL includes any adjustments from dilutions, concentrations or moisture content, where applicable.                                                                                                                                                                                          |
| MS       | - Matrix Spike Sample: A sample prepared by adding a known mass of target analyte to a specified amount of matrix sample for which an independent estimate of target analyte concentration is available. For Method 332.0, the spike recovery is calculated using the native concentration, including estimated values.                                                                                                                                                                                                    |
| MSD      | - Matrix Spike Sample Duplicate: Refer to MS.                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| NA       | - Not Applicable.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| NC       | - Not Calculated: Term is utilized when one or more of the results utilized in the calculation are non-detect at the parameter's reporting unit.                                                                                                                                                                                                                                                                                                                                                                           |
| NDPA/DPA | - N-Nitrosodiphenylamine/Diphenylamine.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| NI       | - Not Ignitable.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| NP       | - Non-Plastic: Term is utilized for the analysis of Atterberg Limits in soil.                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| NR       | - No Results: Term is utilized when 'No Target Compounds Requested' is reported for the analysis of Volatile or Semivolatile Organic TIC only requests.                                                                                                                                                                                                                                                                                                                                                                    |
| RL       | - Reporting Limit: The value at which an instrument can accurately measure an analyte at a specific concentration. The RL includes any adjustments from dilutions, concentrations or moisture content, where applicable.                                                                                                                                                                                                                                                                                                   |
| RPD      | - Relative Percent Difference: The results from matrix and/or matrix spike duplicates are primarily designed to assess the precision of analytical results in a given matrix and are expressed as relative percent difference (RPD). Values which are less than five times the reporting limit for any individual parameter are evaluated by utilizing the absolute difference between the values; although the RPD value will be provided in the report.                                                                  |
| SRM      | - Standard Reference Material: A reference sample of a known or certified value that is of the same or similar matrix as the associated field samples.                                                                                                                                                                                                                                                                                                                                                                     |
| STLP     | - Semi-dynamic Tank Leaching Procedure per EPA Method 1315.                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| TEF      | - Toxic Equivalency Factors: The values assigned to each dioxin and furan to evaluate their toxicity relative to 2,3,7,8-TCDD.                                                                                                                                                                                                                                                                                                                                                                                             |
| TEQ      | - Toxic Equivalent: The measure of a sample's toxicity derived by multiplying each dioxin and furan by its corresponding TEF and then summing the resulting values.                                                                                                                                                                                                                                                                                                                                                        |
| TIC      | - Tentatively Identified Compound: A compound that has been identified to be present and is not part of the target compound list (TCL) for the method and/or program. All TICs are qualitatively identified and reported as estimated concentrations.                                                                                                                                                                                                                                                                      |

Report Format: DU Report with 'J' Qualifiers



#### Footnotes

- 1 - The reference for this analyte should be considered modified since this analyte is absent from the target analyte list of the original method.

#### Terms

**Analytical Method:** Both the document from which the method originates and the analytical reference method. (Example: EPA 8260B is shown as 1,8260B.) The codes for the reference method documents are provided in the References section of the Addendum.

**Chlordane:** The target compound Chlordane (CAS No. 57-74-9) is reported for GC ECD analyses. Per EPA, this compound "refers to a mixture of chlordane isomers, other chlorinated hydrocarbons and numerous other components." (Reference: USEPA Toxicological Review of Chlordane, In Support of Summary Information on the Integrated Risk Information System (IRIS), December 1997.)

**Difference:** With respect to Total Oxidizable Precursor (TOP) Assay analysis, the difference is defined as the Post-Treatment value minus the Pre-Treatment value.

**Final pH:** As it pertains to Sample Receipt & Container Information section of the report, Final pH reflects pH of container determined after adjustment at the laboratory, if applicable. If no adjustment required, value reflects Initial pH.

**Frozen Date/Time:** With respect to Volatile Organics in soil, Frozen Date/Time reflects the date/time at which associated Reagent Water-preserved vials were initially frozen. Note: If frozen date/time is beyond 48 hours from sample collection, value will be reflected in 'bold'.

**Gasoline Range Organics (GRO):** Gasoline Range Organics (GRO) results include all chromatographic peaks eluting from Methyl tert butyl ether through Naphthalene, with the exception of GRO analysis in support of State of Ohio programs, which includes all chromatographic peaks eluting from Hexane through Dodecane.

**Initial pH:** As it pertains to Sample Receipt & Container Information section of the report, Initial pH reflects pH of container determined upon receipt, if applicable.

**PAH Total:** With respect to Alkylated PAH analyses, the 'PAHs, Total' result is defined as the summation of results for all or a subset of the following compounds: Naphthalene, C1-C4 Naphthalenes, 2-Methylnaphthalene, 1-Methylnaphthalene, Biphenyl, Acenaphthylene, Acenaphthene, Fluorene, C1-C3 Fluorenes, Phenanthrene, C1-C4 Phenanthrenes/Anthracenes, Anthracene, Fluoranthene, Pyrene, C1-C4 Fluoranthenes/Pyrenes, Benz(a)anthracene, Chrysene, C1-C4 Chrysenes, Benzo(b)fluoranthene, Benzo(j)+(k)fluoranthene, Benzo(e)pyrene, Benzo(a)pyrene, Perylene, Indeno(1,2,3-cd)pyrene, Dibenz(ah)+(ac)anthracene, Benzo(g,h,i)perylene. If a 'Total' result is requested, the results of its individual components will also be reported.

**PFAS Total:** With respect to PFAS analyses, the 'PFAS, Total (5)' result is defined as the summation of results for: PFHpA, PFHxS, PFOA, PFNA and PFOS. In addition, the 'PFAS, Total (6)' result is defined as the summation of results for: PFHpA, PFHxS, PFOA, PFNA, PFDA and PFOS. For MassDEP DW compliance analysis only, the 'PFAS, Total (6)' result is defined as the summation of results at or above the RL. Note: If a 'Total' result is requested, the results of its individual components will also be reported.

**Total:** With respect to Organic analyses, a 'Total' result is defined as the summation of results for individual isomers or Aroclors. If a 'Total' result is requested, the results of its individual components will also be reported. This is applicable to 'Total' results for methods 8260, 8081 and 8082.

#### Data Qualifiers

- A** - Spectra identified as "Aldol Condensates" are byproducts of the extraction/concentration procedures when acetone is introduced in the process.
- B** - The analyte was detected above the reporting limit in the associated method blank. Flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank. For MCP-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank. For DOD-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank AND the analyte was detected above one-half the reporting limit (or above the reporting limit for common lab contaminants) in the associated method blank. For NJ-Air-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte above the reporting limit. For NJ-related projects (excluding Air), flag only applies to associated field samples that have detectable concentrations of the analyte, which was detected above the reporting limit in the associated method blank or above five times the reporting limit for common lab contaminants (Phthalates, Acetone, Methylene Chloride, 2-Butanone).
- C** - Co-elution: The target analyte co-elutes with a known lab standard (i.e. surrogate, internal standards, etc.) for co-extracted analyses.
- D** - Concentration of analyte was quantified from diluted analysis. Flag only applies to field samples that have detectable concentrations of the analyte.
- E** - Concentration of analyte exceeds the range of the calibration curve and/or linear range of the instrument.
- F** - The ratio of quantifier ion response to qualifier ion response falls outside of the laboratory criteria. Results are considered to be an estimated maximum concentration.
- G** - The concentration may be biased high due to matrix interferences (i.e. co-elution) with non-target compound(s). The result should be considered estimated.
- H** - The analysis of pH was performed beyond the regulatory-required holding time of 15 minutes from the time of sample collection.
- I** - The lower value for the two columns has been reported due to obvious interference.
- M** - Reporting Limit (RL) exceeds the MCP CAM Reporting Limit for this analyte.
- NJ** - Presumptive evidence of compound. This represents an estimated concentration for Tentatively Identified Compounds (TICs), where

**Report Format:** DU Report with 'J' Qualifiers



**Project Name:** RAMSEY SD  
**Project Number:** RAMSEY SD

**Lab Number:** L2540791  
**Report Date:** 07/02/25

#### Data Qualifiers

the identification is based on a mass spectral library search.

- P** - The RPD between the results for the two columns exceeds the method-specified criteria.
- Q** - The quality control sample exceeds the associated acceptance criteria. For DOD-related projects, LCS and/or Continuing Calibration Standard exceedences are also qualified on all associated sample results. Note: This flag is not applicable for matrix spike recoveries when the sample concentration is greater than 4x the spike added or for batch duplicate RPD when the sample concentrations are less than 5x the RL. (Metals only.)
- R** - Analytical results are from sample re-analysis.
- RE** - Analytical results are from sample re-extraction.
- S** - Analytical results are from modified screening analysis.
- V** - The surrogate associated with this target analyte has a recovery outside the QC acceptance limits. (Applicable to MassDEP DW Compliance samples only.)
- Z** - The batch matrix spike and/or duplicate associated with this target analyte has a recovery/RPD outside the QC acceptance limits. (Applicable to MassDEP DW Compliance samples only.)
- J** - Estimated value. The Target analyte concentration is below the quantitation limit (RL), but above the Method Detection Limit (MDL) or Estimated Detection Limit (EDL) for SPME-related analyses. This represents an estimated concentration for Tentatively Identified Compounds (TICs). For calculated parameters, this represents that one or more values used in the calculation were estimated.
- ND or U** - Not detected at the method detection limit (MDL) for the sample, or estimated detection limit (EDL) for SPME-related analyses.

# Metals

## **Inorganic Data (ICPMS Analysis)**

## **Sample Results Summary**



# Form 1

## METALS

Client : Phoenix Environmental  
Project Name : RAMSEY SD  
Lab ID : L2540791-01  
Client ID : 13-0627-01A  
Sample Location : RAMSEY HS  
Sample Matrix : WATER  
Analytical Method : 1,6020B  
Lab File ID : WG2085087.pdf  
Sample Amount : 50ml  
Digestion Method : EPA 3005A

Lab Number : L2540791  
Project Number : RAMSEY SD  
Date Collected : 06/27/25 13:34  
Date Received : 06/27/25  
Date Analyzed : 06/30/25 17:08  
Dilution Factor : 1  
Analyst : BLR  
Instrument ID : ICPMSQ2  
%Solids : N/A  
Date Digested : 06/30/25

| CAS NO.   | Parameter           | ug/L    |       |        | Qualifier |
|-----------|---------------------|---------|-------|--------|-----------|
|           |                     | Results | RL    | MDL    |           |
| 7440-28-0 | Thallium, Dissolved | ND      | 1.000 | 0.1430 | U         |

# Form 1

## METALS

Client : Phoenix Environmental  
Project Name : RAMSEY SD  
Lab ID : WG2085103-1  
Client ID : WG2085103-1BLANK  
Sample Location :  
Sample Matrix : WATER  
Analytical Method : 1,6020B  
Lab File ID : WG2085087.pdf  
Sample Amount : 50ml  
Digestion Method : EPA 3005A

Lab Number : L2540791  
Project Number : RAMSEY SD  
Date Collected : NA  
Date Received : NA  
Date Analyzed : 06/30/25 16:59  
Dilution Factor : 1  
Analyst : BLR  
Instrument ID : ICPMSQ2  
%Solids : N/A  
Date Digested : 06/30/25

| CAS NO.   | Parameter           | ug/L    |       |        | Qualifier |
|-----------|---------------------|---------|-------|--------|-----------|
|           |                     | Results | RL    | MDL    |           |
| 7440-28-0 | Thallium, Dissolved | ND      | 1.000 | 0.1430 | U         |



# Form 1

## METALS

Client : Phoenix Environmental  
Project Name : RAMSEY SD  
Lab ID : WG2085103-4  
Client ID : 13-0627-01ADUP  
Sample Location :  
Sample Matrix : WATER  
Analytical Method : 1,6020B  
Lab File ID : WG2085087.pdf  
Sample Amount : 50ml  
Digestion Method : EPA 3005A

Lab Number : L2540791  
Project Number : RAMSEY SD  
Date Collected : 06/27/25 13:34  
Date Received : 06/27/25  
Date Analyzed : 06/30/25 17:17  
Dilution Factor : 1  
Analyst : BLR  
Instrument ID : ICPMSQ2  
%Solids : N/A  
Date Digested : 06/30/25

| CAS NO.   | Parameter           | ug/L    |       |        | Qualifier |
|-----------|---------------------|---------|-------|--------|-----------|
|           |                     | Results | RL    | MDL    |           |
| 7440-28-0 | Thallium, Dissolved | ND      | 1.000 | 0.1430 | U         |



# Form 1

## METALS

Client : Phoenix Environmental  
Project Name : RAMSEY SD  
Lab ID : L2540791-02  
Client ID : 13-0627-01B  
Sample Location : RAMSEY HS  
Sample Matrix : WATER  
Analytical Method : 1,6020B  
Lab File ID : WG2085087.pdf  
Sample Amount : 50ml  
Digestion Method : EPA 3005A

Lab Number : L2540791  
Project Number : RAMSEY SD  
Date Collected : 06/27/25 13:34  
Date Received : 06/27/25  
Date Analyzed : 06/30/25 15:17  
Dilution Factor : 1  
Analyst : BLR  
Instrument ID : ICPMSQ2  
%Solids : N/A  
Date Digested : 06/30/25

| CAS NO.   | Parameter       | ug/L    |       |        | Qualifier |
|-----------|-----------------|---------|-------|--------|-----------|
|           |                 | Results | RL    | MDL    |           |
| 7440-36-0 | Antimony, Total | 1.427   | 4.000 | 0.4290 | J         |
| 7440-28-0 | Thallium, Total | ND      | 1.000 | 0.1430 | U         |



# Form 1

## METALS

Client : Phoenix Environmental  
 Project Name : RAMSEY SD  
 Lab ID : WG2085094-1  
 Client ID : WG2085094-1BLANK  
 Sample Location :  
 Sample Matrix : WATER  
 Analytical Method : 1,6020B  
 Lab File ID : WG2085087.pdf  
 Sample Amount : 50ml  
 Digestion Method : EPA 3005A

Lab Number : L2540791  
 Project Number : RAMSEY SD  
 Date Collected : NA  
 Date Received : NA  
 Date Analyzed : 06/30/25 14:02  
 Dilution Factor : 1  
 Analyst : BLR  
 Instrument ID : ICPMSQ2  
 %Solids : N/A  
 Date Digested : 06/30/25

| CAS NO.   | Parameter       | ug/L    |       |        | Qualifier |
|-----------|-----------------|---------|-------|--------|-----------|
|           |                 | Results | RL    | MDL    |           |
| 7440-36-0 | Antimony, Total | ND      | 4.000 | 0.4290 | U         |
| 7440-28-0 | Thallium, Total | ND      | 1.000 | 0.1430 | U         |



# Form 1 METALS

Client : Phoenix Environmental  
 Project Name : RAMSEY SD  
 Lab ID : L2540791-01  
 Client ID : 13-0627-01A  
 Sample Location : RAMSEY HS  
 Sample Matrix : WATER  
 Analytical Method : 1,6020B  
 Lab File ID : WG2085206.pdf  
 Sample Amount : 50ml  
 Digestion Method : EPA 3005A

Lab Number : L2540791  
 Project Number : RAMSEY SD  
 Date Collected : 06/27/25 13:34  
 Date Received : 06/27/25  
 Date Analyzed : 06/30/25 14:27  
 Dilution Factor : 1  
 Analyst : BLR  
 Instrument ID : ICPMSQ  
 %Solids : N/A  
 Date Digested : 06/30/25

| CAS NO.   | Parameter            | ug/L    |        |        | Qualifier |
|-----------|----------------------|---------|--------|--------|-----------|
|           |                      | Results | RL     | MDL    |           |
| 7429-90-5 | Aluminum, Dissolved  | 101.    | 10.0   | 3.27   |           |
| 7440-38-2 | Arsenic, Dissolved   | 6.584   | 0.5000 | 0.1650 |           |
| 7440-41-7 | Beryllium, Dissolved | ND      | 0.5000 | 0.1070 | U         |
| 7440-43-9 | Cadmium, Dissolved   | ND      | 0.2000 | 0.0599 | U         |
| 7440-70-2 | Calcium, Dissolved   | 15000   | 100    | 39.4   |           |
| 7440-47-3 | Chromium, Dissolved  | 0.7101  | 1.000  | 0.1780 | J         |
| 7440-48-4 | Cobalt, Dissolved    | 0.2092  | 0.5000 | 0.1630 | J         |
| 7440-50-8 | Copper, Dissolved    | 1.938   | 1.000  | 0.3840 |           |
| 7439-89-6 | Iron, Dissolved      | 25.4    | 50.0   | 19.1   | J         |
| 7439-92-1 | Lead, Dissolved      | ND      | 1.000  | 0.3430 | U         |
| 7439-95-4 | Magnesium, Dissolved | 6310    | 70.0   | 24.2   |           |
| 7439-96-5 | Manganese, Dissolved | 0.6756  | 1.000  | 0.4400 | J         |
| 7440-02-0 | Nickel, Dissolved    | ND      | 2.000  | 0.5560 | U         |
| 7440-09-7 | Potassium, Dissolved | 2700    | 100    | 30.9   |           |
| 7782-49-2 | Selenium, Dissolved  | ND      | 5.00   | 1.73   | U         |
| 7440-22-4 | Silver, Dissolved    | ND      | 0.4000 | 0.1630 | U         |
| 7440-23-5 | Sodium, Dissolved    | 76400   | 500    | 29.3   |           |
| 7440-62-2 | Vanadium, Dissolved  | 2.149   | 5.000  | 1.570  | J         |
| 7440-66-6 | Zinc, Dissolved      | ND      | 10.00  | 3.410  | U         |



# Form 1 METALS

Client : Phoenix Environmental  
Project Name : RAMSEY SD  
Lab ID : WG2085103-1  
Client ID : WG2085103-1BLANK  
Sample Location :  
Sample Matrix : WATER  
Analytical Method : 1,6020B  
Lab File ID : WG2085206.pdf  
Sample Amount : 50ml  
Digestion Method : EPA 3005A

Lab Number : L2540791  
Project Number : RAMSEY SD  
Date Collected : NA  
Date Received : NA  
Date Analyzed : 06/30/25 14:18  
Dilution Factor : 1  
Analyst : BLR  
Instrument ID : ICPMSQ  
%Solids : N/A  
Date Digested : 06/30/25

| CAS NO.   | Parameter            | ug/L    |        |        | Qualifier |
|-----------|----------------------|---------|--------|--------|-----------|
|           |                      | Results | RL     | MDL    |           |
| 7429-90-5 | Aluminum, Dissolved  | ND      | 10.0   | 3.27   | U         |
| 7440-38-2 | Arsenic, Dissolved   | ND      | 0.5000 | 0.1650 | U         |
| 7440-41-7 | Beryllium, Dissolved | ND      | 0.5000 | 0.1070 | U         |
| 7440-43-9 | Cadmium, Dissolved   | ND      | 0.2000 | 0.0599 | U         |
| 7440-70-2 | Calcium, Dissolved   | ND      | 100    | 39.4   | U         |
| 7440-47-3 | Chromium, Dissolved  | ND      | 1.000  | 0.1780 | U         |
| 7440-48-4 | Cobalt, Dissolved    | ND      | 0.5000 | 0.1630 | U         |
| 7440-50-8 | Copper, Dissolved    | ND      | 1.000  | 0.3840 | U         |
| 7439-89-6 | Iron, Dissolved      | ND      | 50.0   | 19.1   | U         |
| 7439-92-1 | Lead, Dissolved      | ND      | 1.000  | 0.3430 | U         |
| 7439-95-4 | Magnesium, Dissolved | ND      | 70.0   | 24.2   | U         |
| 7439-96-5 | Manganese, Dissolved | ND      | 1.000  | 0.4400 | U         |
| 7440-02-0 | Nickel, Dissolved    | ND      | 2.000  | 0.5560 | U         |
| 7440-09-7 | Potassium, Dissolved | ND      | 100    | 30.9   | U         |
| 7782-49-2 | Selenium, Dissolved  | ND      | 5.00   | 1.73   | U         |
| 7440-22-4 | Silver, Dissolved    | ND      | 0.4000 | 0.1630 | U         |
| 7440-23-5 | Sodium, Dissolved    | 34.6    | 500    | 29.3   | J         |
| 7440-62-2 | Vanadium, Dissolved  | ND      | 5.000  | 1.570  | U         |
| 7440-66-6 | Zinc, Dissolved      | ND      | 10.00  | 3.410  | U         |



# Form 1 METALS

Client : Phoenix Environmental  
Project Name : RAMSEY SD  
Lab ID : WG2085103-4  
Client ID : 13-0627-01ADUP  
Sample Location :  
Sample Matrix : WATER  
Analytical Method : 1,6020B  
Lab File ID : WG2085206.pdf  
Sample Amount : 50ml  
Digestion Method : EPA 3005A

Lab Number : L2540791  
Project Number : RAMSEY SD  
Date Collected : 06/27/25 13:34  
Date Received : 06/27/25  
Date Analyzed : 06/30/25 14:37  
Dilution Factor : 1  
Analyst : BLR  
Instrument ID : ICPMSQ  
%Solids : N/A  
Date Digested : 06/30/25

| CAS NO.   | Parameter            | ug/L    |        |        | Qualifier |
|-----------|----------------------|---------|--------|--------|-----------|
|           |                      | Results | RL     | MDL    |           |
| 7429-90-5 | Aluminum, Dissolved  | 100.    | 10.0   | 3.27   |           |
| 7440-38-2 | Arsenic, Dissolved   | 6.627   | 0.5000 | 0.1650 |           |
| 7440-41-7 | Beryllium, Dissolved | ND      | 0.5000 | 0.1070 | U         |
| 7440-43-9 | Cadmium, Dissolved   | ND      | 0.2000 | 0.0599 | U         |
| 7440-70-2 | Calcium, Dissolved   | 14800   | 100    | 39.4   |           |
| 7440-47-3 | Chromium, Dissolved  | 0.8461  | 1.000  | 0.1780 | J         |
| 7440-48-4 | Cobalt, Dissolved    | 0.2096  | 0.5000 | 0.1630 | J         |
| 7440-50-8 | Copper, Dissolved    | 1.956   | 1.000  | 0.3840 |           |
| 7439-89-6 | Iron, Dissolved      | 30.2    | 50.0   | 19.1   | J         |
| 7439-92-1 | Lead, Dissolved      | ND      | 1.000  | 0.3430 | U         |
| 7439-95-4 | Magnesium, Dissolved | 6380    | 70.0   | 24.2   |           |
| 7439-96-5 | Manganese, Dissolved | 0.7396  | 1.000  | 0.4400 | J         |
| 7440-02-0 | Nickel, Dissolved    | ND      | 2.000  | 0.5560 | U         |
| 7440-09-7 | Potassium, Dissolved | 2670    | 100    | 30.9   |           |
| 7782-49-2 | Selenium, Dissolved  | ND      | 5.00   | 1.73   | U         |
| 7440-22-4 | Silver, Dissolved    | ND      | 0.4000 | 0.1630 | U         |
| 7440-23-5 | Sodium, Dissolved    | 77600   | 500    | 29.3   |           |
| 7440-62-2 | Vanadium, Dissolved  | 2.135   | 5.000  | 1.570  | J         |
| 7440-66-6 | Zinc, Dissolved      | ND      | 10.00  | 3.410  | U         |





# Form 1

## METALS

Client : Phoenix Environmental  
 Project Name : RAMSEY SD  
 Lab ID : WG2085103-6  
 Client ID : Serial Dilution  
 Sample Location :  
 Sample Matrix : WATER  
 Analytical Method : 1,6020B  
 Lab File ID : WG2085206.pdf  
 Sample Amount : 50ml  
 Digestion Method : EPA 3005A

Lab Number : L2540791  
 Project Number : RAMSEY SD  
 Date Collected :  
 Date Received :  
 Date Analyzed : 06/30/25 15:40  
 Dilution Factor : 5  
 Analyst : BLR  
 Instrument ID : ICPMSQ  
 %Solids : N/A  
 Date Digested : 06/30/25

| CAS NO.   | Parameter            | ug/L    |      |      | Qualifier |
|-----------|----------------------|---------|------|------|-----------|
|           |                      | Results | RL   | MDL  |           |
| 7440-70-2 | Calcium, Dissolved   | 15000   | 500  | 197. |           |
| 7439-95-4 | Magnesium, Dissolved | 6330    | 350  | 121. |           |
| 7440-09-7 | Potassium, Dissolved | 2680    | 500  | 154. |           |
| 7440-23-5 | Sodium, Dissolved    | 74600   | 2500 | 146. |           |



# Form 1 METALS

Client : Phoenix Environmental  
 Project Name : RAMSEY SD  
 Lab ID : L2540791-02  
 Client ID : 13-0627-01B  
 Sample Location : RAMSEY HS  
 Sample Matrix : WATER  
 Analytical Method : 1,6020B  
 Lab File ID : WG2085206.pdf  
 Sample Amount : 50ml  
 Digestion Method : EPA 3005A

Lab Number : L2540791  
 Project Number : RAMSEY SD  
 Date Collected : 06/27/25 13:34  
 Date Received : 06/27/25  
 Date Analyzed : 06/30/25 13:51  
 Dilution Factor : 1  
 Analyst : BLR  
 Instrument ID : ICPMSQ  
 %Solids : N/A  
 Date Digested : 06/30/25

| CAS NO.   | Parameter        | ug/L    |        |        | Qualifier |
|-----------|------------------|---------|--------|--------|-----------|
|           |                  | Results | RL     | MDL    |           |
| 7429-90-5 | Aluminum, Total  | 678.    | 10.0   | 3.27   |           |
| 7440-38-2 | Arsenic, Total   | 7.448   | 0.5000 | 0.1650 |           |
| 7440-39-3 | Barium, Total    | 15.02   | 0.5000 | 0.1730 |           |
| 7440-41-7 | Beryllium, Total | ND      | 0.5000 | 0.1070 | U         |
| 7440-43-9 | Cadmium, Total   | ND      | 0.2000 | 0.0599 | U         |
| 7440-70-2 | Calcium, Total   | 15700   | 100    | 39.4   |           |
| 7440-47-3 | Chromium, Total  | 1.328   | 1.000  | 0.1780 |           |
| 7440-48-4 | Cobalt, Total    | 0.3632  | 0.5000 | 0.1630 | J         |
| 7440-50-8 | Copper, Total    | 2.853   | 1.000  | 0.3840 |           |
| 7439-89-6 | Iron, Total      | 394.    | 50.0   | 19.1   |           |
| 7439-92-1 | Lead, Total      | 1.157   | 1.000  | 0.3430 |           |
| 7439-95-4 | Magnesium, Total | 6690    | 70.0   | 24.2   |           |
| 7439-96-5 | Manganese, Total | 3.672   | 1.000  | 0.4400 |           |
| 7440-02-0 | Nickel, Total    | 0.6779  | 2.000  | 0.5560 | J         |
| 7440-09-7 | Potassium, Total | 2900    | 100    | 30.9   |           |
| 7782-49-2 | Selenium, Total  | ND      | 5.00   | 1.73   | U         |
| 7440-22-4 | Silver, Total    | ND      | 0.4000 | 0.1630 | U         |
| 7440-23-5 | Sodium, Total    | 78600   | 500    | 29.3   |           |
| 7440-62-2 | Vanadium, Total  | 3.143   | 5.000  | 1.570  | J         |
| 7440-66-6 | Zinc, Total      | 3.612   | 10.00  | 3.410  | J         |



# Form 1 METALS

Client : Phoenix Environmental  
Project Name : RAMSEY SD  
Lab ID : WG2085094-1  
Client ID : WG2085094-1BLANK  
Sample Location :  
Sample Matrix : WATER  
Analytical Method : 1,6020B  
Lab File ID : WG2085206.pdf  
Sample Amount : 50ml  
Digestion Method : EPA 3005A

Lab Number : L2540791  
Project Number : RAMSEY SD  
Date Collected : NA  
Date Received : NA  
Date Analyzed : 06/30/25 13:17  
Dilution Factor : 1  
Analyst : BLR  
Instrument ID : ICPMSQ  
%Solids : N/A  
Date Digested : 06/30/25

| CAS NO.   | Parameter        | ug/L    |        |        | Qualifier |
|-----------|------------------|---------|--------|--------|-----------|
|           |                  | Results | RL     | MDL    |           |
| 7429-90-5 | Aluminum, Total  | ND      | 10.0   | 3.27   | U         |
| 7440-38-2 | Arsenic, Total   | ND      | 0.5000 | 0.1650 | U         |
| 7440-39-3 | Barium, Total    | ND      | 0.5000 | 0.1730 | U         |
| 7440-41-7 | Beryllium, Total | ND      | 0.5000 | 0.1070 | U         |
| 7440-43-9 | Cadmium, Total   | ND      | 0.2000 | 0.0599 | U         |
| 7440-70-2 | Calcium, Total   | ND      | 100    | 39.4   | U         |
| 7440-47-3 | Chromium, Total  | ND      | 1.000  | 0.1780 | U         |
| 7440-48-4 | Cobalt, Total    | ND      | 0.5000 | 0.1630 | U         |
| 7440-50-8 | Copper, Total    | ND      | 1.000  | 0.3840 | U         |
| 7439-89-6 | Iron, Total      | ND      | 50.0   | 19.1   | U         |
| 7439-92-1 | Lead, Total      | ND      | 1.000  | 0.3430 | U         |
| 7439-95-4 | Magnesium, Total | ND      | 70.0   | 24.2   | U         |
| 7439-96-5 | Manganese, Total | ND      | 1.000  | 0.4400 | U         |
| 7440-02-0 | Nickel, Total    | ND      | 2.000  | 0.5560 | U         |
| 7440-09-7 | Potassium, Total | ND      | 100    | 30.9   | U         |
| 7782-49-2 | Selenium, Total  | ND      | 5.00   | 1.73   | U         |
| 7440-22-4 | Silver, Total    | ND      | 0.4000 | 0.1630 | U         |
| 7440-23-5 | Sodium, Total    | ND      | 500    | 29.3   | U         |
| 7440-62-2 | Vanadium, Total  | ND      | 5.000  | 1.570  | U         |
| 7440-66-6 | Zinc, Total      | ND      | 10.00  | 3.410  | U         |



# Form 1

## METALS

Client : Phoenix Environmental  
 Project Name : RAMSEY SD  
 Lab ID : L2540791-01  
 Client ID : 13-0627-01A  
 Sample Location : RAMSEY HS  
 Sample Matrix : WATER  
 Analytical Method : 1,6020B  
 Lab File ID : WG2085359.pdf  
 Sample Amount : 50ml  
 Digestion Method : EPA 3005A

Lab Number : L2540791  
 Project Number : RAMSEY SD  
 Date Collected : 06/27/25 13:34  
 Date Received : 06/27/25  
 Date Analyzed : 06/30/25 19:48  
 Dilution Factor : 1  
 Analyst : TAA  
 Instrument ID : ICPMSQ3  
 %Solids : N/A  
 Date Digested : 06/30/25

| CAS NO.   | Parameter           | ug/L    |        |        | Qualifier |
|-----------|---------------------|---------|--------|--------|-----------|
|           |                     | Results | RL     | MDL    |           |
| 7440-36-0 | Antimony, Dissolved | 1.535   | 4.000  | 0.4290 | J         |
| 7440-39-3 | Barium, Dissolved   | 12.33   | 0.5000 | 0.1730 |           |



# Form 1

## METALS

Client : Phoenix Environmental  
 Project Name : RAMSEY SD  
 Lab ID : WG2085103-1  
 Client ID : WG2085103-1BLANK  
 Sample Location :  
 Sample Matrix : WATER  
 Analytical Method : 1,6020B  
 Lab File ID : WG2085359.pdf  
 Sample Amount : 50ml  
 Digestion Method : EPA 3005A

Lab Number : L2540791  
 Project Number : RAMSEY SD  
 Date Collected : NA  
 Date Received : NA  
 Date Analyzed : 06/30/25 19:38  
 Dilution Factor : 1  
 Analyst : TAA  
 Instrument ID : ICPMSQ3  
 %Solids : N/A  
 Date Digested : 06/30/25

| CAS NO.   | Parameter           | ug/L    |        |        | Qualifier |
|-----------|---------------------|---------|--------|--------|-----------|
|           |                     | Results | RL     | MDL    |           |
| 7440-36-0 | Antimony, Dissolved | ND      | 4.000  | 0.4290 | U         |
| 7440-39-3 | Barium, Dissolved   | ND      | 0.5000 | 0.1730 | U         |



# Form 1 METALS

Client : Phoenix Environmental  
 Project Name : RAMSEY SD  
 Lab ID : WG2085103-4  
 Client ID : 13-0627-01ADUP  
 Sample Location :  
 Sample Matrix : WATER  
 Analytical Method : 1,6020B  
 Lab File ID : WG2085359.pdf  
 Sample Amount : 50ml  
 Digestion Method : EPA 3005A

Lab Number : L2540791  
 Project Number : RAMSEY SD  
 Date Collected : 06/27/25 13:34  
 Date Received : 06/27/25  
 Date Analyzed : 06/30/25 19:58  
 Dilution Factor : 1  
 Analyst : TAA  
 Instrument ID : ICPMSQ3  
 %Solids : N/A  
 Date Digested : 06/30/25

| CAS NO.   | Parameter           | ug/L    |        |        | Qualifier |
|-----------|---------------------|---------|--------|--------|-----------|
|           |                     | Results | RL     | MDL    |           |
| 7440-36-0 | Antimony, Dissolved | 1.575   | 4.000  | 0.4290 | J         |
| 7440-39-3 | Barium, Dissolved   | 12.44   | 0.5000 | 0.1730 |           |



## **Blank Results Summary**

## Form 3 Blanks

Client : Phoenix Environmental  
 Project Name : RAMSEY SD  
 Instrument ID : ICPMSQ2

Lab Number : L2540791  
 Project Number : RAMSEY SD

| Parameter     | Initial Calibration |   | Continuing Calibration |   |                |   | Preparation    |   |                |   |
|---------------|---------------------|---|------------------------|---|----------------|---|----------------|---|----------------|---|
|               | Blank               |   | Blank(s)               |   |                |   | Blank          |   |                |   |
| Lab ID        | : R1982793-2        |   | R1982793-5             |   | R1982793-7     |   | R1982793-9     |   | WG2085103-1    |   |
| Date Analyzed | : 06/30/25 07:19    |   | 06/30/25 07:42         |   | 06/30/25 08:40 |   | 06/30/25 09:11 |   | 06/30/25 16:59 |   |
|               | ug/l                | Q | ug/l                   | Q | ug/l           | Q | ug/l           | Q | ug/l           | Q |
| Thallium      | 0.271               | J | 0.218                  | J | 0.217          | J | 0.236          | J | 0.1430         | U |





## Form 3 Blanks

Client : Phoenix Environmental  
 Project Name : RAMSEY SD  
 Instrument ID : ICPMSQ2

Lab Number : L2540791  
 Project Number : RAMSEY SD

| Parameter       | Initial Calibration<br>Blank |   | Continuing Calibration<br>Blank(s) |   |                |   | Preparation<br>Blank |   |
|-----------------|------------------------------|---|------------------------------------|---|----------------|---|----------------------|---|
|                 | ug/l                         | Q | ug/l                               | Q | ug/l           | Q | ug/l                 | Q |
| Lab ID :        |                              |   | R1982793-12                        |   | R1982793-14    |   | R1982793-16          |   |
| Date Analyzed : |                              |   | 06/30/25 10:08                     |   | 06/30/25 11:09 |   | 06/30/25 11:32       |   |
| Thallium        |                              |   | 0.214                              | J | 0.235          | J | 0.238                | J |



## Form 3 Blanks

Client : Phoenix Environmental  
 Project Name : RAMSEY SD  
 Instrument ID : ICPMSQ2

Lab Number : L2540791  
 Project Number : RAMSEY SD

| Parameter       | Initial Calibration Blank |   | Continuing Calibration Blank(s) |   |                |   | Preparation Blank |   |
|-----------------|---------------------------|---|---------------------------------|---|----------------|---|-------------------|---|
|                 | ug/l                      | Q | ug/l                            | Q | ug/l           | Q | ug/l              | Q |
| Lab ID :        |                           |   | R1982793-18                     |   | R1982793-20    |   | R1982793-22       |   |
| Date Analyzed : |                           |   | 06/30/25 12:27                  |   | 06/30/25 12:43 |   | 06/30/25 13:50    |   |
| Thallium        |                           |   | 0.221                           | J | 0.219          | J | 0.143             | U |



## Form 3 Blanks

Client : Phoenix Environmental  
 Project Name : RAMSEY SD  
 Instrument ID : ICPMSQ2

Lab Number : L2540791  
 Project Number : RAMSEY SD

| Parameter | Initial Calibration Blank |   | Continuing Calibration Blank(s) |   |       |   | Preparation Blank |   |
|-----------|---------------------------|---|---------------------------------|---|-------|---|-------------------|---|
|           | ug/l                      | Q | ug/l                            | Q | ug/l  | Q | ug/l              | Q |
| Thallium  |                           |   | 0.143                           | U | 0.143 | U | 0.143             | U |



## Form 3 Blanks

Client : Phoenix Environmental  
 Project Name : RAMSEY SD  
 Instrument ID : ICPMSQ2

Lab Number : L2540791  
 Project Number : RAMSEY SD

| Parameter | Initial Calibration<br>Blank |   | Continuing Calibration<br>Blank(s) |   |      |   | Preparation<br>Blank |   |
|-----------|------------------------------|---|------------------------------------|---|------|---|----------------------|---|
|           | ug/l                         | Q | ug/l                               | Q | ug/l | Q | ug/l                 | Q |
| Thallium  |                              |   | 0.212                              | J |      |   |                      |   |



## Form 3 Blanks

Client : Phoenix Environmental  
 Project Name : RAMSEY SD  
 Instrument ID : ICPMSQ2

Lab Number : L2540791  
 Project Number : RAMSEY SD

| Parameter       | Initial Calibration Blank |   | Continuing Calibration Blank(s) |   |                |   | Preparation Blank |   |
|-----------------|---------------------------|---|---------------------------------|---|----------------|---|-------------------|---|
|                 | ug/l                      | Q | ug/l                            | Q | ug/l           | Q | ug/l              | Q |
| Lab ID :        | R1982793-2                |   | R1982793-5                      |   | R1982793-7     |   | R1982793-9        |   |
| Date Analyzed : | 06/30/25 07:19            |   | 06/30/25 07:42                  |   | 06/30/25 08:40 |   | 06/30/25 09:11    |   |
|                 |                           |   |                                 |   |                |   | WG2085094-1       |   |
| Antimony        | 0.429                     | U | 0.429                           | U | 0.429          | U | 0.4290            | U |
| Thallium        | 0.271                     | J | 0.218                           | J | 0.217          | J | 0.236             | J |
|                 |                           |   |                                 |   |                |   | 0.1430            | U |



## Form 3 Blanks

Client : Phoenix Environmental  
 Project Name : RAMSEY SD  
 Instrument ID : ICPMSQ2

Lab Number : L2540791  
 Project Number : RAMSEY SD

| Parameter       | Initial Calibration<br>Blank |   | Continuing Calibration<br>Blank(s) |   |                |   | Preparation<br>Blank |   |
|-----------------|------------------------------|---|------------------------------------|---|----------------|---|----------------------|---|
|                 | ug/l                         | Q | ug/l                               | Q | ug/l           | Q | ug/l                 | Q |
| Lab ID :        |                              |   | R1982793-12                        |   | R1982793-14    |   | R1982793-16          |   |
| Date Analyzed : |                              |   | 06/30/25 10:08                     |   | 06/30/25 11:09 |   | 06/30/25 11:32       |   |
| Antimony        |                              |   | 0.429                              | U | 0.429          | U | 0.429                | U |
| Thallium        |                              |   | 0.214                              | J | 0.235          | J | 0.238                | J |



## Form 3 Blanks

Client : Phoenix Environmental  
 Project Name : RAMSEY SD  
 Instrument ID : ICPMSQ2

Lab Number : L2540791  
 Project Number : RAMSEY SD

| Parameter       | Initial Calibration Blank |   | Continuing Calibration Blank(s) |   |                |   | Preparation Blank |   |
|-----------------|---------------------------|---|---------------------------------|---|----------------|---|-------------------|---|
|                 | ug/l                      | Q | ug/l                            | Q | ug/l           | Q | ug/l              | Q |
| Lab ID :        |                           |   | R1982793-18                     |   | R1982793-20    |   | R1982793-22       |   |
| Date Analyzed : |                           |   | 06/30/25 12:27                  |   | 06/30/25 12:43 |   | 06/30/25 13:50    |   |
| Antimony        |                           |   | 0.429                           | U | 0.429          | U | 0.429             | U |
| Thallium        |                           |   | 0.221                           | J | 0.219          | J | 0.143             | U |



## Form 3 Blanks

Client : Phoenix Environmental  
 Project Name : RAMSEY SD  
 Instrument ID : ICPMSQ2

Lab Number : L2540791  
 Project Number : RAMSEY SD

| Parameter | Initial Calibration Blank |   | Continuing Calibration Blank(s) |   |       |   | Preparation Blank |   |
|-----------|---------------------------|---|---------------------------------|---|-------|---|-------------------|---|
|           | ug/l                      | Q | ug/l                            | Q | ug/l  | Q | ug/l              | Q |
| Antimony  |                           |   | 0.429                           | U | 0.429 | U |                   |   |
| Thallium  |                           |   | 0.143                           | U | 0.143 | U |                   |   |





## Form 3 Blanks

Client : Phoenix Environmental  
Project Name : RAMSEY SD  
Instrument ID : ICPMSQ

Lab Number : L2540791  
Project Number : RAMSEY SD

| Parameter | Initial Calibration Blank |   | Continuing Calibration Blank(s) |   |        |   | Preparation Blank |   |
|-----------|---------------------------|---|---------------------------------|---|--------|---|-------------------|---|
|           | ug/l                      | Q | ug/l                            | Q | ug/l   | Q | ug/l              | Q |
| Aluminum  | 3.27                      | U | 3.27                            | U | 3.27   | U | 3.27              | U |
| Arsenic   | 0.165                     | U | 0.230                           | J | 0.165  | U | 0.165             | U |
| Beryllium | 0.107                     | U | 0.107                           | U | 0.107  | U | 0.107             | U |
| Cadmium   | 0.0599                    | U | 0.0599                          | U | 0.0599 | U | 0.0599            | U |
| Calcium   | 39.4                      | U | 39.4                            | U | 39.4   | U | 39.4              | U |
| Chromium  | 0.178                     | U | 0.178                           | U | 0.178  | U | 0.178             | U |
| Cobalt    | 0.163                     | U | 0.163                           | U | 0.163  | U | 0.163             | U |
| Copper    | 0.384                     | U | 0.384                           | U | 0.384  | U | 0.384             | U |
| Iron      | 19.1                      | U | 19.1                            | U | 19.1   | U | 19.1              | U |
| Lead      | 0.343                     | U | 0.543                           | J | 0.343  | U | 0.343             | U |
| Magnesium | 24.2                      | U | 24.2                            | U | 24.2   | U | 24.2              | U |
| Manganese | 0.440                     | U | 0.440                           | U | 0.440  | U | 0.440             | U |
| Nickel    | 0.556                     | U | 0.556                           | U | 0.556  | U | 0.556             | U |
| Potassium | 30.9                      | U | 30.9                            | U | 30.9   | U | 30.9              | U |
| Selenium  | 1.73                      | U | 1.73                            | U | 1.73   | U | 1.73              | U |
| Silver    | 0.163                     | U | 0.163                           | U | 0.163  | U | 0.163             | U |
| Sodium    | 29.3                      | U | 29.3                            | U | 29.3   | U | 29.3              | U |
| Vanadium  | 1.57                      | U | 1.57                            | U | 1.57   | U | 1.57              | U |
| Zinc      | 3.41                      | U | 3.41                            | U | 3.41   | U | 3.41              | U |



## Form 3 Blanks

Client : Phoenix Environmental  
Project Name : RAMSEY SD  
Instrument ID : ICPMSQ

Lab Number : L2540791  
Project Number : RAMSEY SD

| Parameter | Initial Calibration Blank |   | Continuing Calibration Blank(s) |   |        |   | Preparation Blank |   |
|-----------|---------------------------|---|---------------------------------|---|--------|---|-------------------|---|
|           | ug/l                      | Q | ug/l                            | Q | ug/l   | Q | ug/l              | Q |
| Aluminum  | 3.27                      | U | 3.27                            | U | 3.27   | U | 3.27              | U |
| Arsenic   | 0.165                     | U | 0.165                           | U | 0.165  | U | 0.165             | U |
| Beryllium | 0.107                     | U | 0.107                           | U | 0.107  | U | 0.107             | U |
| Cadmium   | 0.0599                    | U | 0.0599                          | U | 0.0599 | U | 0.0599            | U |
| Calcium   | 39.4                      | U | 39.4                            | U | 39.4   | U | 39.4              | U |
| Chromium  | 0.178                     | U | 0.178                           | U | 0.178  | U | 0.178             | U |
| Cobalt    | 0.163                     | U | 0.163                           | U | 0.163  | U | 0.163             | U |
| Copper    | 0.384                     | U | 0.384                           | U | 0.384  | U | 0.384             | U |
| Iron      | 19.1                      | U | 19.1                            | U | 19.1   | U | 19.1              | U |
| Lead      | 0.343                     | U | 0.343                           | U | 0.343  | U | 0.343             | U |
| Magnesium | 24.2                      | U | 24.2                            | U | 24.2   | U | 24.2              | U |
| Manganese | 0.440                     | U | 0.440                           | U | 0.440  | U | 0.440             | U |
| Nickel    | 0.556                     | U | 0.556                           | U | 0.556  | U | 0.556             | U |
| Potassium | 30.9                      | U | 30.9                            | U | 30.9   | U | 30.9              | U |
| Selenium  | 1.73                      | U | 1.73                            | U | 1.73   | U | 1.73              | U |
| Silver    | 0.163                     | U | 0.163                           | U | 0.163  | U | 0.163             | U |
| Sodium    | 29.3                      | U | 29.3                            | U | 29.3   | U | 29.3              | U |
| Vanadium  | 1.57                      | U | 1.57                            | U | 1.57   | U | 1.57              | U |
| Zinc      | 3.41                      | U | 3.41                            | U | 3.41   | U | 3.41              | U |



# Form 3 Blanks

Client : Phoenix Environmental  
Project Name : RAMSEY SD  
Instrument ID : ICPMSQ

Lab Number : L2540791  
Project Number : RAMSEY SD

| Parameter | Initial Calibration Blank |   | Continuing Calibration Blank(s) |   |      |   | Preparation Blank |   |
|-----------|---------------------------|---|---------------------------------|---|------|---|-------------------|---|
|           | ug/l                      | Q | ug/l                            | Q | ug/l | Q | ug/l              | Q |
| Aluminum  |                           |   | 3.27                            | U |      |   |                   |   |
| Arsenic   |                           |   | 0.165                           | U |      |   |                   |   |
| Beryllium |                           |   | 0.107                           | U |      |   |                   |   |
| Cadmium   |                           |   | 0.0599                          | U |      |   |                   |   |
| Calcium   |                           |   | 39.4                            | U |      |   |                   |   |
| Chromium  |                           |   | 0.178                           | U |      |   |                   |   |
| Cobalt    |                           |   | 0.163                           | U |      |   |                   |   |
| Copper    |                           |   | 0.384                           | U |      |   |                   |   |
| Iron      |                           |   | 19.1                            | U |      |   |                   |   |
| Lead      |                           |   | 0.343                           | U |      |   |                   |   |
| Magnesium |                           |   | 24.2                            | U |      |   |                   |   |
| Manganese |                           |   | 0.440                           | U |      |   |                   |   |
| Nickel    |                           |   | 0.556                           | U |      |   |                   |   |
| Potassium |                           |   | 30.9                            | U |      |   |                   |   |
| Selenium  |                           |   | 1.73                            | U |      |   |                   |   |
| Silver    |                           |   | 0.163                           | U |      |   |                   |   |
| Sodium    |                           |   | 29.3                            | U |      |   |                   |   |
| Vanadium  |                           |   | 1.57                            | U |      |   |                   |   |
| Zinc      |                           |   | 3.41                            | U |      |   |                   |   |



## Form 3 Blanks

Client : Phoenix Environmental  
Project Name : RAMSEY SD  
Instrument ID : ICPMSQ

Lab Number : L2540791  
Project Number : RAMSEY SD

| Parameter       | Lab ID         | Initial Calibration |                | Continuing Calibration |                |            |                |             |                | Preparation |   |
|-----------------|----------------|---------------------|----------------|------------------------|----------------|------------|----------------|-------------|----------------|-------------|---|
|                 |                | Blank               |                | Blank(s)               |                |            |                |             |                | Blank       |   |
|                 |                | R1982915-2          |                | R1982915-6             |                | R1982915-8 |                | R1982915-11 |                | WG2085094-1 |   |
| Date Analyzed : | 06/30/25 10:21 |                     | 06/30/25 10:55 |                        | 06/30/25 12:06 |            | 06/30/25 14:01 |             | 06/30/25 13:17 |             |   |
|                 |                | ug/l                | Q              | ug/l                   | Q              | ug/l       | Q              | ug/l        | Q              | ug/l        | Q |
| Aluminum        |                | 3.27                | U              | 3.27                   | U              | 3.27       | U              | 3.27        | U              | 3.27        | U |
| Arsenic         |                | 0.165               | U              | 0.230                  | J              | 0.165      | U              | 0.165       | U              | 0.1650      | U |
| Barium          |                | 0.173               | U              | 0.266                  | J              | 0.173      | U              | 0.173       | U              | 0.1730      | U |
| Beryllium       |                | 0.107               | U              | 0.107                  | U              | 0.107      | U              | 0.107       | U              | 0.1070      | U |
| Cadmium         |                | 0.0599              | U              | 0.0599                 | U              | 0.0599     | U              | 0.0599      | U              | 0.0599      | U |
| Calcium         |                | 39.4                | U              | 39.4                   | U              | 39.4       | U              | 39.4        | U              | 39.4        | U |
| Chromium        |                | 0.178               | U              | 0.178                  | U              | 0.178      | U              | 0.178       | U              | 0.1780      | U |
| Cobalt          |                | 0.163               | U              | 0.163                  | U              | 0.163      | U              | 0.163       | U              | 0.1630      | U |
| Copper          |                | 0.384               | U              | 0.384                  | U              | 0.384      | U              | 0.384       | U              | 0.3840      | U |
| Iron            |                | 19.1                | U              | 19.1                   | U              | 19.1       | U              | 19.1        | U              | 19.1        | U |
| Lead            |                | 0.343               | U              | 0.543                  | J              | 0.343      | U              | 0.343       | U              | 0.3430      | U |
| Magnesium       |                | 24.2                | U              | 24.2                   | U              | 24.2       | U              | 24.2        | U              | 24.2        | U |
| Manganese       |                | 0.440               | U              | 0.440                  | U              | 0.440      | U              | 0.440       | U              | 0.4400      | U |
| Nickel          |                | 0.556               | U              | 0.556                  | U              | 0.556      | U              | 0.556       | U              | 0.5560      | U |
| Potassium       |                | 30.9                | U              | 30.9                   | U              | 30.9       | U              | 30.9        | U              | 30.9        | U |
| Selenium        |                | 1.73                | U              | 1.73                   | U              | 1.73       | U              | 1.73        | U              | 1.73        | U |
| Silver          |                | 0.163               | U              | 0.163                  | U              | 0.163      | U              | 0.163       | U              | 0.1630      | U |
| Sodium          |                | 29.3                | U              | 29.3                   | U              | 29.3       | U              | 29.3        | U              | 29.3        | U |
| Vanadium        |                | 1.57                | U              | 1.57                   | U              | 1.57       | U              | 1.57        | U              | 1.570       | U |
| Zinc            |                | 3.41                | U              | 3.41                   | U              | 3.41       | U              | 3.41        | U              | 3.410       | U |



## Form 3 Blanks

Client : Phoenix Environmental  
Project Name : RAMSEY SD  
Instrument ID : ICPMSQ

Lab Number : L2540791  
Project Number : RAMSEY SD

| Parameter | Initial Calibration<br>Blank |   | Continuing Calibration<br>Blank(s) |   |      |   | Preparation<br>Blank |   |
|-----------|------------------------------|---|------------------------------------|---|------|---|----------------------|---|
|           | ug/l                         | Q | ug/l                               | Q | ug/l | Q | ug/l                 | Q |
| Aluminum  | 3.27                         | U | 3.27                               | U |      |   |                      |   |
| Arsenic   | 0.165                        | U | 0.165                              | U |      |   |                      |   |
| Barium    | 0.173                        | U | 0.173                              | U |      |   |                      |   |
| Beryllium | 0.107                        | U | 0.107                              | U |      |   |                      |   |
| Cadmium   | 0.0599                       | U | 0.0599                             | U |      |   |                      |   |
| Calcium   | 39.4                         | U | 39.4                               | U |      |   |                      |   |
| Chromium  | 0.178                        | U | 0.178                              | U |      |   |                      |   |
| Cobalt    | 0.163                        | U | 0.163                              | U |      |   |                      |   |
| Copper    | 0.384                        | U | 0.384                              | U |      |   |                      |   |
| Iron      | 19.1                         | U | 19.1                               | U |      |   |                      |   |
| Lead      | 0.343                        | U | 0.343                              | U |      |   |                      |   |
| Magnesium | 24.2                         | U | 24.2                               | U |      |   |                      |   |
| Manganese | 0.440                        | U | 0.440                              | U |      |   |                      |   |
| Nickel    | 0.556                        | U | 0.556                              | U |      |   |                      |   |
| Potassium | 30.9                         | U | 30.9                               | U |      |   |                      |   |
| Selenium  | 1.73                         | U | 1.73                               | U |      |   |                      |   |
| Silver    | 0.163                        | U | 0.163                              | U |      |   |                      |   |
| Sodium    | 29.3                         | U | 29.3                               | U |      |   |                      |   |
| Vanadium  | 1.57                         | U | 1.57                               | U |      |   |                      |   |
| Zinc      | 3.41                         | U | 3.41                               | U |      |   |                      |   |



## Form 3 Blanks

Client : Phoenix Environmental  
 Project Name : RAMSEY SD  
 Instrument ID : ICPMSQ3

Lab Number : L2540791  
 Project Number : RAMSEY SD

| Parameter       | Initial Calibration |   | Continuing Calibration |   |       |   | Preparation    |   |
|-----------------|---------------------|---|------------------------|---|-------|---|----------------|---|
|                 | Blank               |   | Blank(s)               |   |       |   | Blank          |   |
| Lab ID :        | R1983052-2          |   | R1983052-5             |   |       |   | WG2085103-1    |   |
| Date Analyzed : | 06/30/25 15:30      |   | 06/30/25 17:04         |   |       |   | 06/30/25 19:38 |   |
|                 | ug/l                | Q | ug/l                   | Q | ug/l  | Q | ug/l           | Q |
| Antimony        | 0.429               | U | 0.429                  | U | 0.429 | U | 0.4290         | U |
| Barium          | 0.173               | U | 0.173                  | U | 0.173 | U | 0.1730         | U |



## Form 3 Blanks

Client : Phoenix Environmental  
 Project Name : RAMSEY SD  
 Instrument ID : ICPMSQ3

Lab Number : L2540791  
 Project Number : RAMSEY SD

| Parameter       | Initial Calibration<br>Blank |   | Continuing Calibration<br>Blank(s) |   |                |   | Preparation<br>Blank |   |
|-----------------|------------------------------|---|------------------------------------|---|----------------|---|----------------------|---|
|                 | ug/l                         | Q | ug/l                               | Q | ug/l           | Q | ug/l                 | Q |
| Lab ID :        |                              |   | R1983052-12                        |   | R1983052-14    |   | R1983052-16          |   |
| Date Analyzed : |                              |   | 06/30/25 18:49                     |   | 06/30/25 19:07 |   | 06/30/25 20:18       |   |
| Antimony        |                              |   | 0.429                              | U | 0.429          | U | 0.429                | U |
| Barium          |                              |   | 0.173                              | U | 0.173          | U | 0.173                | U |



## **Calibration Summary**



## Form 2A

### Initial and Continuing Calibration Verification

Client : Phoenix Environmental  
 Project Name : RAMSEY SD  
 Instrument ID : ICPMSQ2

Lab Number : L2540791  
 Project Number : RAMSEY SD  
 Units : ug/l

| Parameter | Initial Calibration |                  |     | Continuing Calibration(s) |                |     |       |                |       |                |  |
|-----------|---------------------|------------------|-----|---------------------------|----------------|-----|-------|----------------|-------|----------------|--|
|           | Lab ID              | : R1982793-1     |     |                           | R1982793-4     |     |       | R1982793-6     |       | R1982793-8     |  |
|           | Date Analyzed       | : 06/30/25 07:15 |     |                           | 06/30/25 07:37 |     |       | 06/30/25 08:35 |       | 06/30/25 09:06 |  |
|           | True                | Found            | %R  | True                      | Found          | %R  | Found | %R             | Found | %R             |  |
| Thallium  | 50.0                | 50.6000          | 101 | 60.0000                   | 62.7           | 104 | 62.2  | 104            | 61.7  | 103            |  |

**Acceptance Criteria:**

ICV: 95-105% (Methods 200.7, 245.1)  
 90-110% (Methods 200.8, 6010, 6020, 7470, 7471, 7474)  
 77-123% (Method 1631)  
 76-113% (Method 245.7)

CCV: 90-110% (Methods 200.7, 245.1, 6010, 6020, 7474)  
 85-115% (Method 200.8)  
 80-120% (Methods 7470, 7471)  
 77-123% (Method 1631)  
 76-113% (Method 245.7)



## Form 2A

### Initial and Continuing Calibration Verification

Client : Phoenix Environmental  
 Project Name : RAMSEY SD  
 Instrument ID : ICPMSQ2

Lab Number : L2540791  
 Project Number : RAMSEY SD  
 Units : ug/l

| Parameter | Lab ID :<br>Date Analyzed : | Initial Calibration |       |    | Continuing Calibration(s)     |       |     |                               |     |                               |     |
|-----------|-----------------------------|---------------------|-------|----|-------------------------------|-------|-----|-------------------------------|-----|-------------------------------|-----|
|           |                             | True                | Found | %R | R1982793-11<br>06/30/25 10:04 |       |     | R1982793-13<br>06/30/25 11:05 |     | R1982793-15<br>06/30/25 11:27 |     |
|           |                             |                     |       |    | True                          | Found | %R  | Found                         | %R  | Found                         | %R  |
| Thallium  |                             |                     |       |    | 60.0000                       | 60.2  | 100 | 61.3                          | 102 | 61.9                          | 103 |

**Acceptance Criteria:**

ICV: 95-105% (Methods 200.7, 245.1)  
 90-110% (Methods 200.8, 6010, 6020, 7470, 7471, 7474)  
 77-123% (Method 1631)  
 76-113% (Method 245.7)

CCV: 90-110% (Methods 200.7, 245.1, 6010, 6020, 7474)  
 85-115% (Method 200.8)  
 80-120% (Methods 7470, 7471)  
 77-123% (Method 1631)  
 76-113% (Method 245.7)



## Form 2A

### Initial and Continuing Calibration Verification

Client : Phoenix Environmental  
 Project Name : RAMSEY SD  
 Instrument ID : ICPMSQ2

Lab Number : L2540791  
 Project Number : RAMSEY SD  
 Units : ug/l

| Parameter | Lab ID :<br>Date Analyzed : | Initial Calibration |       |    | Continuing Calibration(s)     |       |     |                               |     |                               |     |
|-----------|-----------------------------|---------------------|-------|----|-------------------------------|-------|-----|-------------------------------|-----|-------------------------------|-----|
|           |                             | True                | Found | %R | R1982793-17<br>06/30/25 12:22 |       |     | R1982793-19<br>06/30/25 12:39 |     | R1982793-21<br>06/30/25 13:45 |     |
|           |                             |                     |       |    | True                          | Found | %R  | Found                         | %R  | Found                         | %R  |
| Thallium  |                             |                     |       |    | 60.0000                       | 60.9  | 102 | 63.0                          | 105 | 63.1                          | 105 |

**Acceptance Criteria:**

ICV: 95-105% (Methods 200.7, 245.1)  
 90-110% (Methods 200.8, 6010, 6020, 7470, 7471, 7474)  
 77-123% (Method 1631)  
 76-113% (Method 245.7)

CCV: 90-110% (Methods 200.7, 245.1, 6010, 6020, 7474)  
 85-115% (Method 200.8)  
 80-120% (Methods 7470, 7471)  
 77-123% (Method 1631)  
 76-113% (Method 245.7)



## Form 2A

### Initial and Continuing Calibration Verification

Client : Phoenix Environmental  
 Project Name : RAMSEY SD  
 Instrument ID : ICPMSQ2

Lab Number : L2540791  
 Project Number : RAMSEY SD  
 Units : ug/l

| Parameter | Lab ID :<br>Date Analyzed : | Initial Calibration |       |    | Continuing Calibration(s)     |       |     |                               |     |                               |     |
|-----------|-----------------------------|---------------------|-------|----|-------------------------------|-------|-----|-------------------------------|-----|-------------------------------|-----|
|           |                             | True                | Found | %R | R1982793-23<br>06/30/25 14:43 |       |     | R1982793-25<br>06/30/25 15:53 |     | R1982793-27<br>06/30/25 16:40 |     |
|           |                             |                     |       |    | True                          | Found | %R  | Found                         | %R  | Found                         | %R  |
| Thallium  |                             |                     |       |    | 60.0000                       | 62.9  | 105 | 62.1                          | 104 | 61.0                          | 102 |

**Acceptance Criteria:**

ICV: 95-105% (Methods 200.7, 245.1)  
 90-110% (Methods 200.8, 6010, 6020, 7470, 7471, 7474)  
 77-123% (Method 1631)  
 76-113% (Method 245.7)

CCV: 90-110% (Methods 200.7, 245.1, 6010, 6020, 7474)  
 85-115% (Method 200.8)  
 80-120% (Methods 7470, 7471)  
 77-123% (Method 1631)  
 76-113% (Method 245.7)



## Form 2A

### Initial and Continuing Calibration Verification

Client : Phoenix Environmental  
 Project Name : RAMSEY SD  
 Instrument ID : ICPMSQ2

Lab Number : L2540791  
 Project Number : RAMSEY SD  
 Units : ug/l

| Parameter | Initial Calibration |       |    | Continuing Calibration(s) |       |    |       |    |       |
|-----------|---------------------|-------|----|---------------------------|-------|----|-------|----|-------|
|           | True                | Found | %R | True                      | Found | %R | Found | %R | Found |
| Thallium  |                     |       |    | 60.0000                   | 59.6  | 99 |       |    |       |

**Acceptance Criteria:**

ICV: 95-105% (Methods 200.7, 245.1)  
 90-110% (Methods 200.8, 6010, 6020, 7470, 7471, 7474)  
 77-123% (Method 1631)  
 76-113% (Method 245.7)

CCV: 90-110% (Methods 200.7, 245.1, 6010, 6020, 7474)  
 85-115% (Method 200.8)  
 80-120% (Methods 7470, 7471)  
 77-123% (Method 1631)  
 76-113% (Method 245.7)



## Form 2A

### Initial and Continuing Calibration Verification

Client : Phoenix Environmental  
 Project Name : RAMSEY SD  
 Instrument ID : ICPMSQ2

Lab Number : L2540791  
 Project Number : RAMSEY SD  
 Units : ug/l

| Parameter | Lab ID :<br>Date Analyzed : | Initial Calibration |         |     | Continuing Calibration(s) |       |     |                |     |                |     |
|-----------|-----------------------------|---------------------|---------|-----|---------------------------|-------|-----|----------------|-----|----------------|-----|
|           |                             | R1982793-1          |         |     | R1982793-4                |       |     | R1982793-6     |     | R1982793-8     |     |
|           |                             | 06/30/25 07:15      |         |     | 06/30/25 07:37            |       |     | 06/30/25 08:35 |     | 06/30/25 09:06 |     |
|           |                             | True                | Found   | %R  | True                      | Found | %R  | Found          | %R  | Found          | %R  |
| Antimony  |                             | 50.0                | 50.6000 | 101 | 60.0000                   | 62.2  | 104 | 63.2           | 105 | 62.7           | 104 |
| Thallium  |                             | 50.0                | 50.6000 | 101 | 60.0000                   | 62.7  | 104 | 62.2           | 104 | 61.7           | 103 |

#### Acceptance Criteria:

ICV: 95-105% (Methods 200.7, 245.1)  
 90-110% (Methods 200.8, 6010, 6020, 7470, 7471, 7474)  
 77-123% (Method 1631)  
 76-113% (Method 245.7)

CCV: 90-110% (Methods 200.7, 245.1, 6010, 6020, 7474)  
 85-115% (Method 200.8)  
 80-120% (Methods 7470, 7471)  
 77-123% (Method 1631)  
 76-113% (Method 245.7)



## Form 2A

### Initial and Continuing Calibration Verification

Client : Phoenix Environmental  
 Project Name : RAMSEY SD  
 Instrument ID : ICPMSQ2

Lab Number : L2540791  
 Project Number : RAMSEY SD  
 Units : ug/l

| Parameter | Lab ID :<br>Date Analyzed : | Initial Calibration |       |    | Continuing Calibration(s) |       |     |                |     |                |     |
|-----------|-----------------------------|---------------------|-------|----|---------------------------|-------|-----|----------------|-----|----------------|-----|
|           |                             | True                | Found | %R | R1982793-11               |       |     | R1982793-13    |     | R1982793-15    |     |
|           |                             |                     |       |    | 06/30/25 10:04            |       |     | 06/30/25 11:05 |     | 06/30/25 11:27 |     |
|           |                             |                     |       |    | True                      | Found | %R  | Found          | %R  | Found          | %R  |
| Antimony  |                             |                     |       |    | 60.0000                   | 61.3  | 102 | 63.3           | 106 | 61.2           | 102 |
| Thallium  |                             |                     |       |    | 60.0000                   | 60.2  | 100 | 61.3           | 102 | 61.9           | 103 |

#### Acceptance Criteria:

ICV: 95-105% (Methods 200.7, 245.1)  
 90-110% (Methods 200.8, 6010, 6020, 7470, 7471, 7474)  
 77-123% (Method 1631)  
 76-113% (Method 245.7)

CCV: 90-110% (Methods 200.7, 245.1, 6010, 6020, 7474)  
 85-115% (Method 200.8)  
 80-120% (Methods 7470, 7471)  
 77-123% (Method 1631)  
 76-113% (Method 245.7)



## Form 2A

### Initial and Continuing Calibration Verification

Client : Phoenix Environmental  
 Project Name : RAMSEY SD  
 Instrument ID : ICPMSQ2

Lab Number : L2540791  
 Project Number : RAMSEY SD  
 Units : ug/l

| Parameter | Initial Calibration |       |    | Continuing Calibration(s) |       |     |       |     |       |
|-----------|---------------------|-------|----|---------------------------|-------|-----|-------|-----|-------|
|           | True                | Found | %R | True                      | Found | %R  | Found | %R  | Found |
| Antimony  |                     |       |    | 60.0000                   | 63.9  | 106 | 60.5  | 101 | 54.4  |
| Thallium  |                     |       |    | 60.0000                   | 60.9  | 102 | 63.0  | 105 | 63.1  |

#### Acceptance Criteria:

ICV: 95-105% (Methods 200.7, 245.1)  
 90-110% (Methods 200.8, 6010, 6020, 7470, 7471, 7474)  
 77-123% (Method 1631)  
 76-113% (Method 245.7)

CCV: 90-110% (Methods 200.7, 245.1, 6010, 6020, 7474)  
 85-115% (Method 200.8)  
 80-120% (Methods 7470, 7471)  
 77-123% (Method 1631)  
 76-113% (Method 245.7)





## Form 2A

### Initial and Continuing Calibration Verification

Client : Phoenix Environmental  
 Project Name : RAMSEY SD  
 Instrument ID : ICPMSQ2

Lab Number : L2540791  
 Project Number : RAMSEY SD  
 Units : ug/l

| Parameter | Lab ID :        | Initial Calibration |       |    | Continuing Calibration(s) |       |     |             |     |       |    |
|-----------|-----------------|---------------------|-------|----|---------------------------|-------|-----|-------------|-----|-------|----|
|           | Date Analyzed : |                     |       |    | R1982793-23               |       |     | R1982793-25 |     |       |    |
|           |                 | True                | Found | %R | True                      | Found | %R  | Found       | %R  | Found | %R |
| Antimony  |                 |                     |       |    | 60.0000                   | 55.0  | 92  | 54.6        | 91  |       |    |
| Thallium  |                 |                     |       |    | 60.0000                   | 62.9  | 105 | 62.1        | 104 |       |    |

**Acceptance Criteria:**

ICV: 95-105% (Methods 200.7, 245.1)  
 90-110% (Methods 200.8, 6010, 6020, 7470, 7471, 7474)  
 77-123% (Method 1631)  
 76-113% (Method 245.7)

CCV: 90-110% (Methods 200.7, 245.1, 6010, 6020, 7474)  
 85-115% (Method 200.8)  
 80-120% (Methods 7470, 7471)  
 77-123% (Method 1631)  
 76-113% (Method 245.7)



## Form 2A

### Initial and Continuing Calibration Verification

Client : Phoenix Environmental  
 Project Name : RAMSEY SD  
 Instrument ID : ICPMSQ

Lab Number : L2540791  
 Project Number : RAMSEY SD  
 Units : ug/l

| Parameter | Initial Calibration |                  |     | Continuing Calibration(s) |       |     |                |     |                |     |  |
|-----------|---------------------|------------------|-----|---------------------------|-------|-----|----------------|-----|----------------|-----|--|
|           | Lab ID              | : R1982915-1     |     | R1982915-5                |       |     | R1982915-7     |     | R1982915-10    |     |  |
|           | Date Analyzed       | : 06/30/25 10:16 |     | 06/30/25 10:50            |       |     | 06/30/25 12:01 |     | 06/30/25 13:56 |     |  |
|           | True                | Found            | %R  | True                      | Found | %R  | Found          | %R  | Found          | %R  |  |
| Aluminum  | 50.0                | 53.9000          | 108 | 60.0000                   | 61.1  | 102 | 58.3           | 97  | 64.4           | 107 |  |
| Arsenic   | 50.0                | 52.6000          | 105 | 60.0000                   | 62.0  | 103 | 60.8           | 101 | 64.1           | 107 |  |
| Beryllium | 50.0                | 50.9000          | 102 | 60.0000                   | 57.6  | 96  | 64.4           | 107 | 62.0           | 103 |  |
| Cadmium   | 50.0                | 51.0000          | 102 | 60.0000                   | 60.9  | 102 | 60.2           | 100 | 64.3           | 107 |  |
| Calcium   | 5000                | 5300.0000        | 106 | 6000.0000                 | 6040  | 101 | 5970           | 100 | 6360           | 106 |  |
| Chromium  | 50.0                | 50.7000          | 101 | 60.0000                   | 60.1  | 100 | 59.8           | 100 | 62.8           | 105 |  |
| Cobalt    | 50.0                | 51.2000          | 102 | 60.0000                   | 61.2  | 102 | 60.6           | 101 | 64.0           | 107 |  |
| Copper    | 50.0                | 52.5000          | 105 | 60.0000                   | 61.9  | 103 | 61.1           | 102 | 64.0           | 107 |  |
| Iron      | 5000                | 5130.0000        | 103 | 6000.0000                 | 6090  | 102 | 6000           | 100 | 6300           | 105 |  |
| Lead      | 50.0                | 49.7000          | 99  | 60.0000                   | 61.4  | 102 | 59.9           | 100 | 64.8           | 108 |  |
| Magnesium | 5000                | 5120.0000        | 102 | 6000.0000                 | 6050  | 101 | 5870           | 98  | 6390           | 106 |  |
| Manganese | 50.0                | 51.6000          | 103 | 60.0000                   | 60.5  | 101 | 59.4           | 99  | 62.3           | 104 |  |
| Nickel    | 50.0                | 52.1000          | 104 | 60.0000                   | 62.3  | 104 | 61.6           | 103 | 64.6           | 108 |  |
| Potassium | 5000                | 4980.0000        | 100 | 6000.0000                 | 5770  | 96  | 5810           | 97  | 6100           | 102 |  |
| Selenium  | 50.0                | 52.3000          | 105 | 60.0000                   | 61.8  | 103 | 60.3           | 100 | 63.9           | 106 |  |
| Silver    | 50.0                | 51.6000          | 103 | 60.0000                   | 60.2  | 100 | 60.4           | 101 | 63.8           | 106 |  |
| Sodium    | 5000                | 5020.0000        | 100 | 6000.0000                 | 5880  | 98  | 5780           | 96  | 6320           | 105 |  |
| Vanadium  | 50.0                | 51.3000          | 103 | 60.0000                   | 59.2  | 99  | 58.2           | 97  | 61.5           | 102 |  |
| Zinc      | 50.0                | 51.7000          | 103 | 60.0000                   | 59.9  | 100 | 58.2           | 97  | 60.7           | 101 |  |

#### Acceptance Criteria:

ICV: 95-105% (Methods 200.7, 245.1)  
 90-110% (Methods 200.8, 6010, 6020, 7470, 7471, 7474)  
 77-123% (Method 1631)  
 76-113% (Method 245.7)

CCV: 90-110% (Methods 200.7, 245.1, 6010, 6020, 7474)  
 85-115% (Method 200.8)  
 80-120% (Methods 7470, 7471)  
 77-123% (Method 1631)  
 76-113% (Method 245.7)



## Form 2A

### Initial and Continuing Calibration Verification

Client : Phoenix Environmental  
 Project Name : RAMSEY SD  
 Instrument ID : ICPMSQ

Lab Number : L2540791  
 Project Number : RAMSEY SD  
 Units : ug/l

| Parameter | Lab ID :<br>Date Analyzed : | Initial Calibration |       | Continuing Calibration(s) |                               |       |                               |       |                               |       |
|-----------|-----------------------------|---------------------|-------|---------------------------|-------------------------------|-------|-------------------------------|-------|-------------------------------|-------|
|           |                             | True                | Found | %R                        | R1982915-12<br>06/30/25 14:07 |       | R1982915-14<br>06/30/25 15:06 |       | R1982915-16<br>06/30/25 15:21 |       |
|           |                             |                     |       |                           | True                          | Found | %R                            | Found | %R                            | Found |
| Aluminum  |                             |                     |       | 60.0000                   | 58.2                          | 97    | 65.1                          | 108   | 65.1                          | 108   |
| Arsenic   |                             |                     |       | 60.0000                   | 60.3                          | 100   | 62.6                          | 104   | 63.7                          | 106   |
| Beryllium |                             |                     |       | 60.0000                   | 65.3                          | 109   | 61.8                          | 103   | 60.7                          | 101   |
| Cadmium   |                             |                     |       | 60.0000                   | 59.1                          | 98    | 62.8                          | 105   | 63.3                          | 106   |
| Calcium   |                             |                     |       | 6000.0000                 | 5910                          | 98    | 6490                          | 108   | 6270                          | 104   |
| Chromium  |                             |                     |       | 60.0000                   | 58.2                          | 97    | 61.7                          | 103   | 62.4                          | 104   |
| Cobalt    |                             |                     |       | 60.0000                   | 59.3                          | 99    | 60.7                          | 101   | 63.4                          | 106   |
| Copper    |                             |                     |       | 60.0000                   | 59.4                          | 99    | 60.9                          | 102   | 63.5                          | 106   |
| Iron      |                             |                     |       | 6000.0000                 | 5790                          | 96    | 6090                          | 102   | 6260                          | 104   |
| Lead      |                             |                     |       | 60.0000                   | 57.2                          | 95    | 61.0                          | 102   | 61.8                          | 103   |
| Magnesium |                             |                     |       | 6000.0000                 | 5930                          | 99    | 6420                          | 107   | 6330                          | 106   |
| Manganese |                             |                     |       | 60.0000                   | 58.1                          | 97    | 60.9                          | 102   | 62.4                          | 104   |
| Nickel    |                             |                     |       | 60.0000                   | 60.3                          | 100   | 375.                          | 625   | 64.3                          | 107   |
| Potassium |                             |                     |       | 6000.0000                 | 5720                          | 95    | 6180                          | 103   | 6100                          | 102   |
| Selenium  |                             |                     |       | 60.0000                   | 60.4                          | 101   | 62.2                          | 104   | 62.6                          | 104   |
| Silver    |                             |                     |       | 60.0000                   | 59.2                          | 99    | 61.6                          | 103   | 63.6                          | 106   |
| Sodium    |                             |                     |       | 6000.0000                 | 5780                          | 96    | 6580                          | 110   | 6160                          | 103   |
| Vanadium  |                             |                     |       | 60.0000                   | 57.1                          | 95    | 61.0                          | 102   | 61.5                          | 102   |
| Zinc      |                             |                     |       | 60.0000                   | 56.4                          | 94    | 58.2                          | 97    | 60.4                          | 101   |

#### Acceptance Criteria:

ICV: 95-105% (Methods 200.7, 245.1)  
 90-110% (Methods 200.8, 6010, 6020, 7470, 7471, 7474)  
 77-123% (Method 1631)  
 76-113% (Method 245.7)

CCV: 90-110% (Methods 200.7, 245.1, 6010, 6020, 7474)  
 85-115% (Method 200.8)  
 80-120% (Methods 7470, 7471)  
 77-123% (Method 1631)  
 76-113% (Method 245.7)



## Form 2A

### Initial and Continuing Calibration Verification

Client : Phoenix Environmental  
 Project Name : RAMSEY SD  
 Instrument ID : ICPMSQ

Lab Number : L2540791  
 Project Number : RAMSEY SD  
 Units : ug/l

| Parameter | Initial Calibration |       |    | Continuing Calibration(s) |       |     |       |    |       |    |
|-----------|---------------------|-------|----|---------------------------|-------|-----|-------|----|-------|----|
|           | True                | Found | %R | True                      | Found | %R  | Found | %R | Found | %R |
| Aluminum  |                     |       |    | 60.0000                   | 64.3  | 107 |       |    |       |    |
| Arsenic   |                     |       |    | 60.0000                   | 62.3  | 104 |       |    |       |    |
| Beryllium |                     |       |    | 60.0000                   | 57.8  | 96  |       |    |       |    |
| Cadmium   |                     |       |    | 60.0000                   | 61.8  | 103 |       |    |       |    |
| Calcium   |                     |       |    | 6000.0000                 | 6250  | 104 |       |    |       |    |
| Chromium  |                     |       |    | 60.0000                   | 61.4  | 102 |       |    |       |    |
| Cobalt    |                     |       |    | 60.0000                   | 61.7  | 103 |       |    |       |    |
| Copper    |                     |       |    | 60.0000                   | 62.2  | 104 |       |    |       |    |
| Iron      |                     |       |    | 6000.0000                 | 6190  | 103 |       |    |       |    |
| Lead      |                     |       |    | 60.0000                   | 62.1  | 104 |       |    |       |    |
| Magnesium |                     |       |    | 6000.0000                 | 6300  | 105 |       |    |       |    |
| Manganese |                     |       |    | 60.0000                   | 61.9  | 103 |       |    |       |    |
| Nickel    |                     |       |    | 60.0000                   | 63.2  | 105 |       |    |       |    |
| Potassium |                     |       |    | 6000.0000                 | 6030  | 100 |       |    |       |    |
| Selenium  |                     |       |    | 60.0000                   | 64.5  | 108 |       |    |       |    |
| Silver    |                     |       |    | 60.0000                   | 61.6  | 103 |       |    |       |    |
| Sodium    |                     |       |    | 6000.0000                 | 6200  | 103 |       |    |       |    |
| Vanadium  |                     |       |    | 60.0000                   | 60.3  | 100 |       |    |       |    |
| Zinc      |                     |       |    | 60.0000                   | 59.6  | 99  |       |    |       |    |

**Acceptance Criteria:**

|      |         |                                               |
|------|---------|-----------------------------------------------|
| ICV: | 95-105% | (Methods 200.7, 245.1)                        |
|      | 90-110% | (Methods 200.8, 6010, 6020, 7470, 7471, 7474) |
|      | 77-123% | (Method 1631)                                 |
|      | 76-113% | (Method 245.7)                                |
| CCV: | 90-110% | (Methods 200.7, 245.1, 6010, 6020, 7474)      |
|      | 85-115% | (Method 200.8)                                |
|      | 80-120% | (Methods 7470, 7471)                          |
|      | 77-123% | (Method 1631)                                 |
|      | 76-113% | (Method 245.7)                                |



## Form 2A

### Initial and Continuing Calibration Verification

Client : Phoenix Environmental  
 Project Name : RAMSEY SD  
 Instrument ID : ICPMSQ

Lab Number : L2540791  
 Project Number : RAMSEY SD  
 Units : ug/l

| Parameter | Lab ID        | Initial Calibration |           |     | Continuing Calibration(s) |       |     |            |     |             |     |
|-----------|---------------|---------------------|-----------|-----|---------------------------|-------|-----|------------|-----|-------------|-----|
|           | Date Analyzed | R1982915-1          |           |     | R1982915-5                |       |     | R1982915-7 |     | R1982915-10 |     |
|           |               | True                | Found     | %R  | True                      | Found | %R  | Found      | %R  | Found       | %R  |
|           |               |                     |           |     |                           |       |     |            |     |             |     |
| Aluminum  |               | 50.0                | 53.9000   | 108 | 60.0000                   | 61.1  | 102 | 58.3       | 97  | 64.4        | 107 |
| Arsenic   |               | 50.0                | 52.6000   | 105 | 60.0000                   | 62.0  | 103 | 60.8       | 101 | 64.1        | 107 |
| Barium    |               | 50.0                | 49.4000   | 99  | 60.0000                   | 64.8  | 108 | 63.8       | 106 | 68.2        | 114 |
| Beryllium |               | 50.0                | 50.9000   | 102 | 60.0000                   | 57.6  | 96  | 64.4       | 107 | 62.0        | 103 |
| Cadmium   |               | 50.0                | 51.0000   | 102 | 60.0000                   | 60.9  | 102 | 60.2       | 100 | 64.3        | 107 |
| Calcium   |               | 5000                | 5300.0000 | 106 | 6000.0000                 | 6040  | 101 | 5970       | 100 | 6360        | 106 |
| Chromium  |               | 50.0                | 50.7000   | 101 | 60.0000                   | 60.1  | 100 | 59.8       | 100 | 62.8        | 105 |
| Cobalt    |               | 50.0                | 51.2000   | 102 | 60.0000                   | 61.2  | 102 | 60.6       | 101 | 64.0        | 107 |
| Copper    |               | 50.0                | 52.5000   | 105 | 60.0000                   | 61.9  | 103 | 61.1       | 102 | 64.0        | 107 |
| Iron      |               | 5000                | 5130.0000 | 103 | 6000.0000                 | 6090  | 102 | 6000       | 100 | 6300        | 105 |
| Lead      |               | 50.0                | 49.7000   | 99  | 60.0000                   | 61.4  | 102 | 59.9       | 100 | 64.8        | 108 |
| Magnesium |               | 5000                | 5120.0000 | 102 | 6000.0000                 | 6050  | 101 | 5870       | 98  | 6390        | 106 |
| Manganese |               | 50.0                | 51.6000   | 103 | 60.0000                   | 60.5  | 101 | 59.4       | 99  | 62.3        | 104 |
| Nickel    |               | 50.0                | 52.1000   | 104 | 60.0000                   | 62.3  | 104 | 61.6       | 103 | 64.6        | 108 |
| Potassium |               | 5000                | 4980.0000 | 100 | 6000.0000                 | 5770  | 96  | 5810       | 97  | 6100        | 102 |
| Selenium  |               | 50.0                | 52.3000   | 105 | 60.0000                   | 61.8  | 103 | 60.3       | 100 | 63.9        | 106 |
| Silver    |               | 50.0                | 51.6000   | 103 | 60.0000                   | 60.2  | 100 | 60.4       | 101 | 63.8        | 106 |
| Sodium    |               | 5000                | 5020.0000 | 100 | 6000.0000                 | 5880  | 98  | 5780       | 96  | 6320        | 105 |
| Vanadium  |               | 50.0                | 51.3000   | 103 | 60.0000                   | 59.2  | 99  | 58.2       | 97  | 61.5        | 102 |
| Zinc      |               | 50.0                | 51.7000   | 103 | 60.0000                   | 59.9  | 100 | 58.2       | 97  | 60.7        | 101 |

#### Acceptance Criteria:

ICV: 95-105% (Methods 200.7, 245.1)  
 90-110% (Methods 200.8, 6010, 6020, 7470, 7471, 7474)  
 77-123% (Method 1631)  
 76-113% (Method 245.7)

CCV: 90-110% (Methods 200.7, 245.1, 6010, 6020, 7474)  
 85-115% (Method 200.8)  
 80-120% (Methods 7470, 7471)  
 77-123% (Method 1631)  
 76-113% (Method 245.7)



## Form 2A

### Initial and Continuing Calibration Verification

Client : Phoenix Environmental  
 Project Name : RAMSEY SD  
 Instrument ID : ICPMSQ

Lab Number : L2540791  
 Project Number : RAMSEY SD  
 Units : ug/l

| Parameter | Initial Calibration |       |    | Continuing Calibration(s) |       |     |       |    |       |    |
|-----------|---------------------|-------|----|---------------------------|-------|-----|-------|----|-------|----|
|           | True                | Found | %R | True                      | Found | %R  | Found | %R | Found | %R |
| Aluminum  |                     |       |    | 60.0000                   | 58.2  | 97  |       |    |       |    |
| Arsenic   |                     |       |    | 60.0000                   | 60.3  | 100 |       |    |       |    |
| Barium    |                     |       |    | 60.0000                   | 63.3  | 106 |       |    |       |    |
| Beryllium |                     |       |    | 60.0000                   | 65.3  | 109 |       |    |       |    |
| Cadmium   |                     |       |    | 60.0000                   | 59.1  | 98  |       |    |       |    |
| Calcium   |                     |       |    | 6000.0000                 | 5910  | 98  |       |    |       |    |
| Chromium  |                     |       |    | 60.0000                   | 58.2  | 97  |       |    |       |    |
| Cobalt    |                     |       |    | 60.0000                   | 59.3  | 99  |       |    |       |    |
| Copper    |                     |       |    | 60.0000                   | 59.4  | 99  |       |    |       |    |
| Iron      |                     |       |    | 6000.0000                 | 5790  | 96  |       |    |       |    |
| Lead      |                     |       |    | 60.0000                   | 57.2  | 95  |       |    |       |    |
| Magnesium |                     |       |    | 6000.0000                 | 5930  | 99  |       |    |       |    |
| Manganese |                     |       |    | 60.0000                   | 58.1  | 97  |       |    |       |    |
| Nickel    |                     |       |    | 60.0000                   | 60.3  | 100 |       |    |       |    |
| Potassium |                     |       |    | 6000.0000                 | 5720  | 95  |       |    |       |    |
| Selenium  |                     |       |    | 60.0000                   | 60.4  | 101 |       |    |       |    |
| Silver    |                     |       |    | 60.0000                   | 59.2  | 99  |       |    |       |    |
| Sodium    |                     |       |    | 6000.0000                 | 5780  | 96  |       |    |       |    |
| Vanadium  |                     |       |    | 60.0000                   | 57.1  | 95  |       |    |       |    |
| Zinc      |                     |       |    | 60.0000                   | 56.4  | 94  |       |    |       |    |

#### Acceptance Criteria:

|      |         |                                               |
|------|---------|-----------------------------------------------|
| ICV: | 95-105% | (Methods 200.7, 245.1)                        |
|      | 90-110% | (Methods 200.8, 6010, 6020, 7470, 7471, 7474) |
|      | 77-123% | (Method 1631)                                 |
|      | 76-113% | (Method 245.7)                                |
| CCV: | 90-110% | (Methods 200.7, 245.1, 6010, 6020, 7474)      |
|      | 85-115% | (Method 200.8)                                |
|      | 80-120% | (Methods 7470, 7471)                          |
|      | 77-123% | (Method 1631)                                 |
|      | 76-113% | (Method 245.7)                                |



## Form 2A

### Initial and Continuing Calibration Verification

Client : Phoenix Environmental  
 Project Name : RAMSEY SD  
 Instrument ID : ICPMSQ3

Lab Number : L2540791  
 Project Number : RAMSEY SD  
 Units : ug/l

| Parameter | Initial Calibration |                |     | Continuing Calibration(s) |                |     |            |                |       |            |                |
|-----------|---------------------|----------------|-----|---------------------------|----------------|-----|------------|----------------|-------|------------|----------------|
|           | Lab ID              | Date Analyzed  |     | Lab ID                    | Date Analyzed  |     |            |                |       |            |                |
|           | R1983052-1          | 06/30/25 15:25 |     | R1983052-4                | 06/30/25 16:59 |     | R1983052-6 | 06/30/25 17:29 |       | R1983052-8 | 06/30/25 17:53 |
|           | True                | Found          | %R  | True                      | Found          | %R  | Found      | %R             | Found | %R         |                |
| Antimony  | 50.0                | 53.6000        | 107 | 60.0000                   | 56.0           | 93  | 58.2       | 97             | 54.1  | 90         |                |
| Barium    | 50.0                | 53.6000        | 107 | 60.0000                   | 65.3           | 109 | 66.4       | 111            | 64.5  | 108        |                |

#### Acceptance Criteria:

ICV: 95-105% (Methods 200.7, 245.1)  
 90-110% (Methods 200.8, 6010, 6020, 7470, 7471, 7474)  
 77-123% (Method 1631)  
 76-113% (Method 245.7)

CCV: 90-110% (Methods 200.7, 245.1, 6010, 6020, 7474)  
 85-115% (Method 200.8)  
 80-120% (Methods 7470, 7471)  
 77-123% (Method 1631)  
 76-113% (Method 245.7)



## Form 2A

### Initial and Continuing Calibration Verification

Client : Phoenix Environmental  
 Project Name : RAMSEY SD  
 Instrument ID : ICPMSQ3

Lab Number : L2540791  
 Project Number : RAMSEY SD  
 Units : ug/l

| Parameter | Lab ID :<br>Date Analyzed : | Initial Calibration |       |    | Continuing Calibration(s) |       |     |                |    |                |     |
|-----------|-----------------------------|---------------------|-------|----|---------------------------|-------|-----|----------------|----|----------------|-----|
|           |                             | True                | Found | %R | R1983052-11               |       |     | R1983052-13    |    | R1983052-15    |     |
|           |                             |                     |       |    | 06/30/25 18:44            |       |     | 06/30/25 19:02 |    | 06/30/25 20:13 |     |
|           |                             |                     |       |    | True                      | Found | %R  | Found          | %R | Found          | %R  |
| Antimony  |                             |                     |       |    | 60.0000                   | 58.0  | 97  | 58.6           | 98 | 57.7           | 96  |
| Barium    |                             |                     |       |    | 60.0000                   | 66.8  | 111 | 57.9           | 96 | 65.9           | 110 |

#### Acceptance Criteria:

ICV: 95-105% (Methods 200.7, 245.1)  
 90-110% (Methods 200.8, 6010, 6020, 7470, 7471, 7474)  
 77-123% (Method 1631)  
 76-113% (Method 245.7)

CCV: 90-110% (Methods 200.7, 245.1, 6010, 6020, 7474)  
 85-115% (Method 200.8)  
 80-120% (Methods 7470, 7471)  
 77-123% (Method 1631)  
 76-113% (Method 245.7)





# **ICP Interference Check Sample Results Summary**

# Form 4a

## Interference Check Sample

Client : Phoenix Environmental  
 Project Name : RAMSEY SD  
 Instrument ID : ICPMSQ2

Lab Number : L2540791  
 Project Number : RAMSEY SD  
 Concentration Units : ug/l

| Analyte         | True |      | Initial Found  |    |      | Final Found |      |    |      |
|-----------------|------|------|----------------|----|------|-------------|------|----|------|
|                 | Sol. | Sol. | Sol.           | %R | Sol. | %R          | Sol. | %R | Sol. |
|                 | A    | AB   | A              | %R | AB   | %R          | A    | %R | AB   |
| Lab ID :        |      |      | R1982793-3     |    |      |             |      |    |      |
| Analysis Date : |      |      | 06/30/25 07:24 |    |      |             |      |    |      |
| Thallium        |      |      | 0.116          |    |      |             |      |    |      |

Acceptance Criteria: Methods 200.7, 200.8, 6010, 6020

ICSA: 80-120%

ICSAB: 80-120%



# Form 4a

## Interference Check Sample

Client : Phoenix Environmental  
 Project Name : RAMSEY SD  
 Instrument ID : ICPMSQ2

Lab Number : L2540791  
 Project Number : RAMSEY SD  
 Concentration Units : ug/l

| Analyte         | True |      | Initial Found  |    |      | Final Found |      |    |      |
|-----------------|------|------|----------------|----|------|-------------|------|----|------|
|                 | Sol. | Sol. | Sol.           | %R | Sol. | %R          | Sol. | %R | Sol. |
|                 | A    | AB   | A              | %R | AB   | %R          | A    | %R | AB   |
| Lab ID :        |      |      | R1982793-3     |    |      |             |      |    |      |
| Analysis Date : |      |      | 06/30/25 07:24 |    |      |             |      |    |      |
| Antimony        |      |      | 1.27           |    |      |             |      |    |      |
| Thallium        |      |      | 0.116          |    |      |             |      |    |      |

Acceptance Criteria: Methods 200.7, 200.8, 6010, 6020

ICSA: 80-120%

ICSAB: 80-120%



## Form 4a Interference Check Sample

Client : Phoenix Environmental  
Project Name : RAMSEY SD  
Instrument ID : ICPMSQ

Lab Number : L2540791  
Project Number : RAMSEY SD  
Concentration Units : ug/l

| Analyte   | True            |      | Initial Found  |     |      |    | Final Found |    |      |    |
|-----------|-----------------|------|----------------|-----|------|----|-------------|----|------|----|
|           | Lab ID :        |      | R1982915-4     |     |      |    |             |    |      |    |
|           | Analysis Date : |      | 06/30/25 10:35 |     |      |    |             |    |      |    |
|           | Sol.            | Sol. | Sol.           |     | Sol. |    | Sol.        |    | Sol. |    |
|           | A               | AB   | A              | %R  | AB   | %R | A           | %R | AB   | %R |
| Aluminum  | 100000          |      | 94600          | 95  |      |    |             |    |      |    |
| Arsenic   |                 |      | 0.460          |     |      |    |             |    |      |    |
| Beryllium |                 |      | 0.123          |     |      |    |             |    |      |    |
| Cadmium   |                 |      | 0.443          |     |      |    |             |    |      |    |
| Calcium   | 300000          |      | 287000         | 96  |      |    |             |    |      |    |
| Chromium  |                 |      | 1.00           |     |      |    |             |    |      |    |
| Cobalt    |                 |      | 2.59           |     |      |    |             |    |      |    |
| Copper    |                 |      | 0.868          |     |      |    |             |    |      |    |
| Iron      | 250000          |      | 251000         | 100 |      |    |             |    |      |    |
| Lead      |                 |      | 1.09           |     |      |    |             |    |      |    |
| Magnesium | 100000          |      | 96500          | 96  |      |    |             |    |      |    |
| Manganese |                 |      | 3.36           |     |      |    |             |    |      |    |
| Nickel    |                 |      | 2.19           |     |      |    |             |    |      |    |
| Potassium | 100000          |      | 110000         | 110 |      |    |             |    |      |    |
| Selenium  |                 |      | 0.197          |     |      |    |             |    |      |    |
| Silver    |                 |      | 0.0294         |     |      |    |             |    |      |    |
| Sodium    | 250000          |      | 258000         | 103 |      |    |             |    |      |    |
| Vanadium  |                 |      | -0.185         |     |      |    |             |    |      |    |
| Zinc      |                 |      | 2.63           |     |      |    |             |    |      |    |

Acceptance Criteria: Methods 200.7, 200.8, 6010, 6020

ICSA: 80-120%

ICSAB: 80-120%



# Form 4a

## Interference Check Sample

Client : Phoenix Environmental  
Project Name : RAMSEY SD  
Instrument ID : ICPMSQ

Lab Number : L2540791  
Project Number : RAMSEY SD  
Concentration Units : ug/l

| Analyte   | True            |      | Initial Found  |     |      |    | Final Found |    |      |    |
|-----------|-----------------|------|----------------|-----|------|----|-------------|----|------|----|
|           | Lab ID :        |      | R1982915-4     |     |      |    |             |    |      |    |
|           | Analysis Date : |      | 06/30/25 10:35 |     |      |    |             |    |      |    |
|           | Sol.            | Sol. | Sol.           |     | Sol. |    | Sol.        |    | Sol. |    |
|           | A               | AB   | A              | %R  | AB   | %R | A           | %R | AB   | %R |
| Aluminum  | 100000          |      | 94600          | 95  |      |    |             |    |      |    |
| Arsenic   |                 |      | 0.460          |     |      |    |             |    |      |    |
| Barium    |                 |      | 0.730          |     |      |    |             |    |      |    |
| Beryllium |                 |      | 0.123          |     |      |    |             |    |      |    |
| Cadmium   |                 |      | 0.443          |     |      |    |             |    |      |    |
| Calcium   | 300000          |      | 287000         | 96  |      |    |             |    |      |    |
| Chromium  |                 |      | 1.00           |     |      |    |             |    |      |    |
| Cobalt    |                 |      | 2.59           |     |      |    |             |    |      |    |
| Copper    |                 |      | 0.868          |     |      |    |             |    |      |    |
| Iron      | 250000          |      | 251000         | 100 |      |    |             |    |      |    |
| Lead      |                 |      | 1.09           |     |      |    |             |    |      |    |
| Magnesium | 100000          |      | 96500          | 96  |      |    |             |    |      |    |
| Manganese |                 |      | 3.36           |     |      |    |             |    |      |    |
| Nickel    |                 |      | 2.19           |     |      |    |             |    |      |    |
| Potassium | 100000          |      | 110000         | 110 |      |    |             |    |      |    |
| Selenium  |                 |      | 0.197          |     |      |    |             |    |      |    |
| Silver    |                 |      | 0.0294         |     |      |    |             |    |      |    |
| Sodium    | 250000          |      | 258000         | 103 |      |    |             |    |      |    |
| Vanadium  |                 |      | -0.185         |     |      |    |             |    |      |    |
| Zinc      |                 |      | 2.63           |     |      |    |             |    |      |    |

Acceptance Criteria: Methods 200.7, 200.8, 6010, 6020

ICSA: 80-120%

ICSAB: 80-120%



# Form 4a

## Interference Check Sample

Client : Phoenix Environmental  
 Project Name : RAMSEY SD  
 Instrument ID : ICPMSQ3

Lab Number : L2540791  
 Project Number : RAMSEY SD  
 Concentration Units : ug/l

| Analyte         | True |      | Initial Found  |    |      | Final Found |      |    |      |
|-----------------|------|------|----------------|----|------|-------------|------|----|------|
|                 | Sol. | Sol. | Sol.           | %R | Sol. | %R          | Sol. | %R | Sol. |
|                 | A    | AB   | A              | %R | AB   | %R          | A    | %R | AB   |
| Lab ID :        |      |      | R1983052-3     |    |      |             |      |    |      |
| Analysis Date : |      |      | 06/30/25 16:25 |    |      |             |      |    |      |
| Antimony        |      |      | 1.26           |    |      |             |      |    |      |
| Barium          |      |      | 0.960          |    |      |             |      |    |      |

Acceptance Criteria: Methods 200.7, 200.8, 6010, 6020

ICSA: 80-120%

ICSAB: 80-120%



## **Spike Sample Results**

## Form 5a Matrix Spike

Client : Phoenix Environmental  
 Project Name : RAMSEY SD  
 Client Sample ID : 13-0627-01A  
 Lab Sample ID : L2540791-01  
 Matrix Spike : WG2085103-3  
 Matrix Spike Dup :

Lab Number : L2540791  
 Project Number : RAMSEY SD  
 Matrix : WATER  
 MS Analysis Date : 06/30/25 17:12  
 MSD Analysis Date :

| Parameter           | Sample<br>Conc.<br>(ug/l) | Matrix Spike Sample      |                          | %R  | Matrix Spike Duplicate   |                          | %R | RPD | Recovery<br>Limits | RPD<br>Limit |
|---------------------|---------------------------|--------------------------|--------------------------|-----|--------------------------|--------------------------|----|-----|--------------------|--------------|
|                     |                           | Spike<br>Added<br>(ug/l) | Spike<br>Conc.<br>(ug/l) |     | Spike<br>Added<br>(ug/l) | Spike<br>Conc.<br>(ug/l) |    |     |                    |              |
| Thallium, Dissolved | ND                        | 120                      | 128.9                    | 107 |                          |                          |    |     | 75-125             | 20           |





## Form 5a Matrix Spike

Client : Phoenix Environmental  
 Project Name : RAMSEY SD  
 Client Sample ID : 13-0627-01A  
 Lab Sample ID : L2540791-01  
 Matrix Spike : WG2085103-3  
 Matrix Spike Dup :

Lab Number : L2540791  
 Project Number : RAMSEY SD  
 Matrix : WATER  
 MS Analysis Date : 06/30/25 14:32  
 MSD Analysis Date :

| Parameter            | Sample<br>Conc.<br>(ug/l) | Matrix Spike Sample      |                          | %R   | Matrix Spike Duplicate   |                          | %R | RPD | Recovery<br>Limits | RPD<br>Limit |
|----------------------|---------------------------|--------------------------|--------------------------|------|--------------------------|--------------------------|----|-----|--------------------|--------------|
|                      |                           | Spike<br>Added<br>(ug/l) | Spike<br>Conc.<br>(ug/l) |      | Spike<br>Added<br>(ug/l) | Spike<br>Conc.<br>(ug/l) |    |     |                    |              |
| Aluminum, Dissolved  | 101.                      | 2000                     | 2190                     | 104  |                          |                          |    |     | 75-125             | 20           |
| Arsenic, Dissolved   | 6.584                     | 120                      | 129.3                    | 102  |                          |                          |    |     | 75-125             | 20           |
| Beryllium, Dissolved | ND                        | 50                       | 55.70                    | 111  |                          |                          |    |     | 75-125             | 20           |
| Cadmium, Dissolved   | ND                        | 53                       | 50.21                    | 95   |                          |                          |    |     | 75-125             | 20           |
| Calcium, Dissolved   | 15000                     | 10000                    | 25000                    | 100  |                          |                          |    |     | 75-125             | 20           |
| Chromium, Dissolved  | 0.7101J                   | 200                      | 207.9                    | 104  |                          |                          |    |     | 75-125             | 20           |
| Cobalt, Dissolved    | 0.2092J                   | 500                      | 519.3                    | 104  |                          |                          |    |     | 75-125             | 20           |
| Copper, Dissolved    | 1.938                     | 250                      | 269.9                    | 107  |                          |                          |    |     | 75-125             | 20           |
| Iron, Dissolved      | 25.4J                     | 1000                     | 1100                     | 110  |                          |                          |    |     | 75-125             | 20           |
| Lead, Dissolved      | ND                        | 530                      | 512.4                    | 97   |                          |                          |    |     | 75-125             | 20           |
| Magnesium, Dissolved | 6310                      | 10000                    | 16300                    | 100  |                          |                          |    |     | 75-125             | 20           |
| Manganese, Dissolved | 0.6756J                   | 500                      | 521.6                    | 104  |                          |                          |    |     | 75-125             | 20           |
| Nickel, Dissolved    | ND                        | 500                      | 530.1                    | 106  |                          |                          |    |     | 75-125             | 20           |
| Potassium, Dissolved | 2700                      | 10000                    | 12100                    | 94   |                          |                          |    |     | 75-125             | 20           |
| Selenium, Dissolved  | ND                        | 120                      | 121.                     | 101  |                          |                          |    |     | 75-125             | 20           |
| Silver, Dissolved    | ND                        | 50                       | 53.90                    | 108  |                          |                          |    |     | 75-125             | 20           |
| Sodium, Dissolved    | 76400                     | 10000                    | 83200                    | 68 Q |                          |                          |    |     | 75-125             | 20           |
| Vanadium, Dissolved  | 2.149J                    | 500                      | 516.9                    | 103  |                          |                          |    |     | 75-125             | 20           |
| Zinc, Dissolved      | ND                        | 500                      | 507.4                    | 101  |                          |                          |    |     | 75-125             | 20           |



## Form 5a Matrix Spike

Client : Phoenix Environmental  
 Project Name : RAMSEY SD  
 Client Sample ID : 13-0627-01A  
 Lab Sample ID : L2540791-01  
 Matrix Spike : WG2085103-3  
 Matrix Spike Dup :

Lab Number : L2540791  
 Project Number : RAMSEY SD  
 Matrix : WATER  
 MS Analysis Date : 06/30/25 19:53  
 MSD Analysis Date :

| Parameter           | Sample<br>Conc.<br>(ug/l) | Matrix Spike Sample      |                          | %R  | Matrix Spike Duplicate   |                          | %R | RPD | Recovery<br>Limits | RPD<br>Limit |
|---------------------|---------------------------|--------------------------|--------------------------|-----|--------------------------|--------------------------|----|-----|--------------------|--------------|
|                     |                           | Spike<br>Added<br>(ug/l) | Spike<br>Conc.<br>(ug/l) |     | Spike<br>Added<br>(ug/l) | Spike<br>Conc.<br>(ug/l) |    |     |                    |              |
| Antimony, Dissolved | 1.535J                    | 500                      | 477.8                    | 96  |                          |                          |    |     | 75-125             | 20           |
| Barium, Dissolved   | 12.33                     | 2000                     | 2233.                    | 111 |                          |                          |    |     | 75-125             | 20           |



## **Duplicate Sample Results Summary**

## Form 6 Lab Duplicates

Client : Phoenix Environmental  
Project Name : RAMSEY SD  
Client Sample ID : 13-0627-01A  
Lab Sample ID : L2540791-01  
Dup Sample ID : WG2085103-4

Lab Number : L2540791  
Project Number : RAMSEY SD  
Matrix : WATER  
Analysis Date : 06/30/25 17:08  
DUP Analysis Date : 06/30/25 17:17

| Parameter           | Sample<br>Concentration<br>(ug/l) | Duplicate<br>Concentration<br>(ug/l) | RPD | RPD<br>Limit |
|---------------------|-----------------------------------|--------------------------------------|-----|--------------|
| Thallium, Dissolved | ND                                | ND                                   | NC  | 20           |



## Form 6 Lab Duplicates

Client : Phoenix Environmental  
 Project Name : RAMSEY SD  
 Client Sample ID : 13-0627-01A  
 Lab Sample ID : L2540791-01  
 Dup Sample ID : WG2085103-4

Lab Number : L2540791  
 Project Number : RAMSEY SD  
 Matrix : WATER  
 Analysis Date : 06/30/25 14:27  
 DUP Analysis Date : 06/30/25 14:37

| Parameter            | Sample<br>Concentration<br>(ug/l) | Duplicate<br>Concentration<br>(ug/l) | RPD | RPD<br>Limit |
|----------------------|-----------------------------------|--------------------------------------|-----|--------------|
| Aluminum, Dissolved  | 101.                              | 100.                                 | 1   | 20           |
| Arsenic, Dissolved   | 6.584                             | 6.627                                | 1   | 20           |
| Beryllium, Dissolved | ND                                | ND                                   | NC  | 20           |
| Cadmium, Dissolved   | ND                                | ND                                   | NC  | 20           |
| Calcium, Dissolved   | 15000                             | 14800                                | 1   | 20           |
| Chromium, Dissolved  | 0.7101J                           | 0.8461J                              | NC  | 20           |
| Cobalt, Dissolved    | 0.2092J                           | 0.2096J                              | NC  | 20           |
| Copper, Dissolved    | 1.938                             | 1.956                                | 1   | 20           |
| Iron, Dissolved      | 25.4J                             | 30.2J                                | NC  | 20           |
| Lead, Dissolved      | ND                                | ND                                   | NC  | 20           |
| Magnesium, Dissolved | 6310                              | 6380                                 | 1   | 20           |
| Manganese, Dissolved | 0.6756J                           | 0.7396J                              | NC  | 20           |
| Nickel, Dissolved    | ND                                | ND                                   | NC  | 20           |
| Potassium, Dissolved | 2700                              | 2670                                 | 1   | 20           |
| Selenium, Dissolved  | ND                                | ND                                   | NC  | 20           |
| Silver, Dissolved    | ND                                | ND                                   | NC  | 20           |
| Sodium, Dissolved    | 76400                             | 77600                                | 2   | 20           |
| Vanadium, Dissolved  | 2.149J                            | 2.135J                               | NC  | 20           |
| Zinc, Dissolved      | ND                                | ND                                   | NC  | 20           |



## Form 6

### Lab Duplicates

Client : Phoenix Environmental  
Project Name : RAMSEY SD  
Client Sample ID : 13-0627-01A  
Lab Sample ID : L2540791-01  
Dup Sample ID : WG2085103-4

Lab Number : L2540791  
Project Number : RAMSEY SD  
Matrix : WATER  
Analysis Date : 06/30/25 19:48  
DUP Analysis Date : 06/30/25 19:58

| Parameter           | Sample<br>Concentration<br>(ug/l) | Duplicate<br>Concentration<br>(ug/l) | RPD | RPD<br>Limit |
|---------------------|-----------------------------------|--------------------------------------|-----|--------------|
| Antimony, Dissolved | 1.535J                            | 1.575J                               | NC  | 20           |
| Barium, Dissolved   | 12.33                             | 12.44                                | 1   | 20           |



## **LCS Sample Results Summary**

# Form 7

## Laboratory Control Sample

Client : Phoenix Environmental  
 Project Name : RAMSEY SD  
 Client Sample ID : NA  
 Lab Sample ID : WG2085103-2  
 Dup Sample ID :

Lab Number : L2540791  
 Project Number : RAMSEY SD  
 Matrix : WATER  
 LCS Analysis Date : 06/30/25 17:03  
 LCSD Analysis Date :

| Parameter           | Laboratory Control Sample |              |      | Laboratory Control Duplicate |              |    | RPD | Recovery Limits | RPD Limit |
|---------------------|---------------------------|--------------|------|------------------------------|--------------|----|-----|-----------------|-----------|
|                     | True (ug/l)               | Found (ug/l) | %R   | True (ug/l)                  | Found (ug/l) | %R |     |                 |           |
| Thallium, Dissolved | 120.                      | 123.         | 103. |                              |              |    |     | 80-120          | 20        |





# Form 7

## Laboratory Control Sample

Client : Phoenix Environmental  
 Project Name : RAMSEY SD  
 Client Sample ID : NA  
 Lab Sample ID : WG2085094-2  
 Dup Sample ID :

Lab Number : L2540791  
 Project Number : RAMSEY SD  
 Matrix : WATER  
 LCS Analysis Date : 06/30/25 14:07  
 LCSD Analysis Date :

| Parameter       | Laboratory Control Sample |              |      | Laboratory Control Duplicate |              |    | RPD | Recovery Limits | RPD Limit |
|-----------------|---------------------------|--------------|------|------------------------------|--------------|----|-----|-----------------|-----------|
|                 | True (ug/l)               | Found (ug/l) | %R   | True (ug/l)                  | Found (ug/l) | %R |     |                 |           |
| Antimony, Total | 500.                      | 429.         | 86.  |                              |              |    |     | 80-120          | 20        |
| Thallium, Total | 120.                      | 126.         | 105. |                              |              |    |     | 80-120          | 20        |



## Form 7 Laboratory Control Sample

Client : Phoenix Environmental  
Project Name : RAMSEY SD  
Client Sample ID : NA  
Lab Sample ID : WG2085103-2  
Dup Sample ID :

Lab Number : L2540791  
Project Number : RAMSEY SD  
Matrix : WATER  
LCS Analysis Date : 06/30/25 14:22  
LCSD Analysis Date :

| Parameter            | Laboratory Control Sample |              |      | Laboratory Control Duplicate |              |    | RPD | Recovery Limits | RPD Limit |
|----------------------|---------------------------|--------------|------|------------------------------|--------------|----|-----|-----------------|-----------|
|                      | True (ug/l)               | Found (ug/l) | %R   | True (ug/l)                  | Found (ug/l) | %R |     |                 |           |
| Aluminum, Dissolved  | 2000                      | 2060         | 103. |                              |              |    |     | 80-120          | 20        |
| Arsenic, Dissolved   | 120.                      | 119.         | 99.  |                              |              |    |     | 80-120          | 20        |
| Beryllium, Dissolved | 50.0                      | 54.1         | 108. |                              |              |    |     | 80-120          | 20        |
| Cadmium, Dissolved   | 53.0                      | 50.1         | 94.  |                              |              |    |     | 80-120          | 20        |
| Calcium, Dissolved   | 10000                     | 10200        | 102. |                              |              |    |     | 80-120          | 20        |
| Chromium, Dissolved  | 200.                      | 205.         | 102. |                              |              |    |     | 80-120          | 20        |
| Cobalt, Dissolved    | 500.                      | 515.         | 103. |                              |              |    |     | 80-120          | 20        |
| Copper, Dissolved    | 250.                      | 266.         | 106. |                              |              |    |     | 80-120          | 20        |
| Iron, Dissolved      | 1000                      | 1010         | 101. |                              |              |    |     | 80-120          | 20        |
| Lead, Dissolved      | 530.                      | 498.         | 94.  |                              |              |    |     | 80-120          | 20        |
| Magnesium, Dissolved | 10000                     | 9750         | 98.  |                              |              |    |     | 80-120          | 20        |
| Manganese, Dissolved | 500.                      | 516.         | 103. |                              |              |    |     | 80-120          | 20        |
| Nickel, Dissolved    | 500.                      | 528.         | 106. |                              |              |    |     | 80-120          | 20        |
| Potassium, Dissolved | 10000                     | 9450         | 94.  |                              |              |    |     | 80-120          | 20        |
| Selenium, Dissolved  | 120.                      | 119.         | 99.  |                              |              |    |     | 80-120          | 20        |
| Silver, Dissolved    | 50.0                      | 53.1         | 106. |                              |              |    |     | 80-120          | 20        |
| Sodium, Dissolved    | 10000                     | 10200        | 102. |                              |              |    |     | 80-120          | 20        |
| Vanadium, Dissolved  | 500.                      | 513.         | 102. |                              |              |    |     | 80-120          | 20        |
| Zinc, Dissolved      | 500.                      | 511.         | 102. |                              |              |    |     | 80-120          | 20        |



## Form 7 Laboratory Control Sample

Client : Phoenix Environmental  
 Project Name : RAMSEY SD  
 Client Sample ID : NA  
 Lab Sample ID : WG2085094-2  
 Dup Sample ID :

Lab Number : L2540791  
 Project Number : RAMSEY SD  
 Matrix : WATER  
 LCS Analysis Date : 06/30/25 13:21  
 LCSD Analysis Date :

| Parameter        | Laboratory Control Sample |              |      | Laboratory Control Duplicate |              |    | RPD | Recovery Limits | RPD Limit |
|------------------|---------------------------|--------------|------|------------------------------|--------------|----|-----|-----------------|-----------|
|                  | True (ug/l)               | Found (ug/l) | %R   | True (ug/l)                  | Found (ug/l) | %R |     |                 |           |
| Aluminum, Total  | 2000                      | 2060         | 103. |                              |              |    |     | 80-120          | 20        |
| Arsenic, Total   | 120.                      | 119.         | 100  |                              |              |    |     | 80-120          | 20        |
| Barium, Total    | 2000                      | 2100         | 105. |                              |              |    |     | 80-120          | 20        |
| Beryllium, Total | 50.0                      | 54.4         | 109. |                              |              |    |     | 80-120          | 20        |
| Cadmium, Total   | 53.0                      | 50.0         | 94.  |                              |              |    |     | 80-120          | 20        |
| Calcium, Total   | 10000                     | 10200        | 102. |                              |              |    |     | 80-120          | 20        |
| Chromium, Total  | 200.                      | 209.         | 105. |                              |              |    |     | 80-120          | 20        |
| Cobalt, Total    | 500.                      | 527.         | 105. |                              |              |    |     | 80-120          | 20        |
| Copper, Total    | 250.                      | 269.         | 107. |                              |              |    |     | 80-120          | 20        |
| Iron, Total      | 1000                      | 1090         | 109. |                              |              |    |     | 80-120          | 20        |
| Lead, Total      | 530.                      | 504.         | 95.  |                              |              |    |     | 80-120          | 20        |
| Magnesium, Total | 10000                     | 9370         | 94.  |                              |              |    |     | 80-120          | 20        |
| Manganese, Total | 500.                      | 530.         | 106. |                              |              |    |     | 80-120          | 20        |
| Nickel, Total    | 500.                      | 544.         | 109. |                              |              |    |     | 80-120          | 20        |
| Potassium, Total | 10000                     | 9430         | 94.  |                              |              |    |     | 80-120          | 20        |
| Selenium, Total  | 120.                      | 116.         | 97.  |                              |              |    |     | 80-120          | 20        |
| Silver, Total    | 50.0                      | 52.9         | 106. |                              |              |    |     | 80-120          | 20        |
| Sodium, Total    | 10000                     | 9800         | 98.  |                              |              |    |     | 80-120          | 20        |
| Vanadium, Total  | 500.                      | 520.         | 104. |                              |              |    |     | 80-120          | 20        |
| Zinc, Total      | 500.                      | 515.         | 103. |                              |              |    |     | 80-120          | 20        |



## Form 7 Laboratory Control Sample

Client : Phoenix Environmental  
 Project Name : RAMSEY SD  
 Client Sample ID : NA  
 Lab Sample ID : WG2085103-2  
 Dup Sample ID :

Lab Number : L2540791  
 Project Number : RAMSEY SD  
 Matrix : WATER  
 LCS Analysis Date : 06/30/25 19:43  
 LCSD Analysis Date :

| Parameter           | Laboratory Control Sample |              |      | Laboratory Control Duplicate |              |    | RPD | Recovery Limits | RPD Limit |
|---------------------|---------------------------|--------------|------|------------------------------|--------------|----|-----|-----------------|-----------|
|                     | True (ug/l)               | Found (ug/l) | %R   | True (ug/l)                  | Found (ug/l) | %R |     |                 |           |
| Antimony, Dissolved | 500.                      | 452.         | 90.  |                              |              |    |     | 80-120          | 20        |
| Barium, Dissolved   | 2000                      | 2190         | 110. |                              |              |    |     | 80-120          | 20        |



## **Serial Dilution Summary**

## Form 8 Serial Dilutions

**Client** : Phoenix Environmental  
**Project Name** : RAMSEY SD  
**Client Sample ID** : 13-0627-01A  
**Lab Sample ID** : L2540791-01  
**Serial Dilution ID** : WG2085103-6

**Lab Number** : L2540791  
**Project Number** : RAMSEY SD  
**Matrix** : WATER  
**Analysis Date** : 06/30/25 14:27  
**Analysis Date** : 06/30/25 15:40

| Parameter            | Initial Sample<br>Result<br>(ug/l) | Serial Dilution<br>Result<br>(ug/l) | % Difference | %D Limit |
|----------------------|------------------------------------|-------------------------------------|--------------|----------|
| Calcium, Dissolved   | 15000                              | 15000                               | 0            | 20       |
| Magnesium, Dissolved | 6310                               | 6330                                | 0            | 20       |
| Potassium, Dissolved | 2700                               | 2680                                | 1            | 20       |
| Sodium, Dissolved    | 76400                              | 74600                               | 2            | 20       |



# **Internal Standard Summary**

# Form 15

## ICP-MS Internal Standards Relative Intensity Summary

Client : Phoenix Environmental  
 Project Name : RAMSEY SD  
 Instrument ID : ICPMSQ2  
 Start Date : 06/30/25

Lab Number : L2540791  
 Project Number : RAMSEY SD  
 Analysis Method : 1,6020B  
 End Date : 06/30/25

| Sample #         | Time     | Internal Standards %RI For: |          |     |    |         |
|------------------|----------|-----------------------------|----------|-----|----|---------|
|                  |          | Lithium                     | Scandium | Ge  | In | Bismuth |
| R1982793-1 ICV   | 07:15:20 | 94                          | 95       | 90  | 89 | 90      |
| R1982793-2 ICB   | 07:19:51 | 82                          | 80       | 86  | 85 | 86      |
| R1982793-3 ICSEA | 07:24:33 | 67                          | 77       | 82  | 85 | 69      |
| R1982793-4 CCV   | 07:37:58 | 81                          | 87       | 89  | 86 | 84      |
| R1982793-5 CCB   | 07:42:30 | 82                          | 85       | 87  | 84 | 83      |
| R1982793-6 CCV   | 08:35:30 | 90                          | 96       | 95  | 91 | 88      |
| R1982793-7 CCB   | 08:40:01 | 88                          | 97       | 95  | 91 | 89      |
| R1982793-8 CCV   | 09:06:34 | 88                          | 95       | 88  | 86 | 84      |
| R1982793-9 CCB   | 09:11:04 | 87                          | 91       | 89  | 86 | 84      |
| R1982793-11 CCV  | 10:04:12 | 75                          | 83       | 92  | 82 | 82      |
| R1982793-12 CCB  | 10:08:44 | 74                          | 79       | 109 | 76 | 77      |
| R1982793-13 CCV  | 11:05:11 | 56                          | 61       | 72  | 63 | 62      |
| R1982793-14 CCB  | 11:09:42 | 60                          | 65       | 83  | 65 | 65      |
| R1982793-15 CCV  | 11:27:41 | 81                          | 88       | 136 | 85 | 82      |
| R1982793-16 CCB  | 11:32:12 | 73                          | 78       | 90  | 77 | 75      |
| R1982793-17 CCV  | 12:22:48 | 62                          | 68       | 72  | 66 | 66      |
| R1982793-18 CCB  | 12:27:20 | 62                          | 67       | 74  | 66 | 67      |
| R1982793-19 CCV  | 12:39:15 | 93                          | 98       | 298 | 95 | 94      |
| R1982793-20 CCB  | 12:43:47 | 94                          | 96       | 103 | 95 | 96      |
| R1982793-21 CCV  | 13:45:31 | 95                          | 104      | 130 | 99 | 95      |
| R1982793-22 CCB  | 13:50:03 | 95                          | 101      | 116 | 98 | 96      |
| R1982793-23 CCV  | 14:43:04 | 98                          | 103      | 103 | 97 | 94      |
| R1982793-24 CCB  | 14:47:37 | 96                          | 100      | 106 | 97 | 95      |
| R1982793-25 CCV  | 15:53:27 | 93                          | 102      | 100 | 99 | 94      |
| R1982793-26 CCB  | 15:58:00 | 95                          | 100      | 102 | 99 | 96      |
| R1982793-27 CCV  | 16:40:55 | 95                          | 105      | 101 | 98 | 94      |
| R1982793-28 CCB  | 16:45:27 | 94                          | 100      | 100 | 97 | 93      |





# Form 15

## ICP-MS Internal Standards Relative Intensity Summary

Client : Phoenix Environmental  
 Project Name : RAMSEY SD  
 Instrument ID : ICPMSQ2  
 Start Date : 06/30/25

Lab Number : L2540791  
 Project Number : RAMSEY SD  
 Analysis Method : 1,6020B  
 End Date : 06/30/25

| Sample #          | Time     | Internal Standards %RI For: |          |     |     |         |
|-------------------|----------|-----------------------------|----------|-----|-----|---------|
|                   |          | Lithium                     | Scandium | Ge  | In  | Bismuth |
| WG2085103-1 BLANK | 16:59:24 | 99                          | 103      | 100 | 97  | 93      |
| WG2085103-2 LCS   | 17:03:53 | 98                          | 106      | 104 | 102 | 98      |
| L2540791-01       | 17:08:21 | 108                         | 117      | 101 | 100 | 92      |
| WG2085103-3 MS    | 17:12:49 | 99                          | 106      | 104 | 100 | 96      |
| WG2085103-4 DUP   | 17:17:17 | 109                         | 117      | 103 | 99  | 91      |
| R1982793-29 CCV   | 18:10:29 | 102                         | 109      | 95  | 93  | 92      |
| R1982793-30 CCB   | 18:15:01 | 101                         | 105      | 104 | 101 | 97      |



# Form 15

## ICP-MS Internal Standards Relative Intensity Summary

Client : Phoenix Environmental  
 Project Name : RAMSEY SD  
 Instrument ID : ICPMSQ2  
 Start Date : 06/30/25

Lab Number : L2540791  
 Project Number : RAMSEY SD  
 Analysis Method : 1,6020B  
 End Date : 06/30/25

| Sample #          | Time     | Internal Standards %RI For: |          |     |     |         |
|-------------------|----------|-----------------------------|----------|-----|-----|---------|
|                   |          | Lithium                     | Scandium | Ge  | In  | Bismuth |
| R1982793-1 ICV    | 07:15:20 | 94                          | 95       | 90  | 89  | 90      |
| R1982793-2 ICB    | 07:19:51 | 82                          | 80       | 86  | 85  | 86      |
| R1982793-3 ICSA   | 07:24:33 | 67                          | 77       | 82  | 85  | 69      |
| R1982793-4 CCV    | 07:37:58 | 81                          | 87       | 89  | 86  | 84      |
| R1982793-5 CCB    | 07:42:30 | 82                          | 85       | 87  | 84  | 83      |
| R1982793-6 CCV    | 08:35:30 | 90                          | 96       | 95  | 91  | 88      |
| R1982793-7 CCB    | 08:40:01 | 88                          | 97       | 95  | 91  | 89      |
| R1982793-8 CCV    | 09:06:34 | 88                          | 95       | 88  | 86  | 84      |
| R1982793-9 CCB    | 09:11:04 | 87                          | 91       | 89  | 86  | 84      |
| R1982793-11 CCV   | 10:04:12 | 75                          | 83       | 92  | 82  | 82      |
| R1982793-12 CCB   | 10:08:44 | 74                          | 79       | 109 | 76  | 77      |
| R1982793-13 CCV   | 11:05:11 | 56                          | 61       | 72  | 63  | 62      |
| R1982793-14 CCB   | 11:09:42 | 60                          | 65       | 83  | 65  | 65      |
| R1982793-15 CCV   | 11:27:41 | 81                          | 88       | 136 | 85  | 82      |
| R1982793-16 CCB   | 11:32:12 | 73                          | 78       | 90  | 77  | 75      |
| R1982793-17 CCV   | 12:22:48 | 62                          | 68       | 72  | 66  | 66      |
| R1982793-18 CCB   | 12:27:20 | 62                          | 67       | 74  | 66  | 67      |
| R1982793-19 CCV   | 12:39:15 | 93                          | 98       | 298 | 95  | 94      |
| R1982793-20 CCB   | 12:43:47 | 94                          | 96       | 103 | 95  | 96      |
| R1982793-21 CCV   | 13:45:31 | 95                          | 104      | 130 | 99  | 95      |
| R1982793-22 CCB   | 13:50:03 | 95                          | 101      | 116 | 98  | 96      |
| WG2085094-1 BLANK | 14:02:46 | 100                         | 104      | 122 | 100 | 96      |
| WG2085094-2 LCS   | 14:07:14 | 99                          | 104      | 111 | 100 | 97      |
| R1982793-23 CCV   | 14:43:04 | 98                          | 103      | 103 | 97  | 94      |
| R1982793-24 CCB   | 14:47:37 | 96                          | 100      | 106 | 97  | 95      |
| L2540791-02       | 15:17:41 | 102                         | 107      | 102 | 100 | 92      |
| R1982793-25 CCV   | 15:53:27 | 93                          | 102      | 100 | 99  | 94      |



**Form 15**  
**ICP-MS Internal Standards Relative Intensity Summary**

**Client** : Phoenix Environmental  
**Project Name** : RAMSEY SD  
**Instrument ID** : ICPMSQ2  
**Start Date** : 06/30/25

**Lab Number** : L2540791  
**Project Number** : RAMSEY SD  
**Analysis Method** : 1,6020B  
**End Date** : 06/30/25

| Sample #        | Time     | Internal Standards %RI For: |          |     |    |         |
|-----------------|----------|-----------------------------|----------|-----|----|---------|
|                 |          | Lithium                     | Scandium | Ge  | In | Bismuth |
| R1982793-26 CCB | 15:58:00 | 95                          | 100      | 102 | 99 | 96      |



# Form 15

## ICP-MS Internal Standards Relative Intensity Summary

Client : Phoenix Environmental  
 Project Name : RAMSEY SD  
 Instrument ID : ICPMSQ  
 Start Date : 06/30/25

Lab Number : L2540791  
 Project Number : RAMSEY SD  
 Analysis Method : 1,6020B  
 End Date : 06/30/25

| Sample #           | Time     | Internal Standards %RI For: |          |     |    |         |
|--------------------|----------|-----------------------------|----------|-----|----|---------|
|                    |          | Lithium                     | Scandium | Ge  | In | Bismuth |
| R1982915-1 ICV     | 10:16:12 | 97                          | 94       | 94  | 93 | 94      |
| R1982915-2 ICB     | 10:21:08 | 97                          | 95       | 94  | 92 | 93      |
| R1982915-3 ICB     | 10:28:59 | 98                          | 96       | 95  | 94 | 95      |
| R1982915-4 ICSA    | 10:35:28 | 65                          | 77       | 92  | 90 | 79      |
| R1982915-5 CCV     | 10:50:08 | 82                          | 88       | 98  | 94 | 96      |
| R1982915-6 CCB     | 10:55:05 | 68                          | 71       | 96  | 94 | 96      |
| R1982915-7 CCV     | 12:01:20 | 79                          | 82       | 96  | 94 | 95      |
| R1982915-8 CCB     | 12:06:16 | 81                          | 82       | 95  | 93 | 95      |
| R1982915-10 CCV    | 13:56:08 | 81                          | 83       | 98  | 92 | 91      |
| R1982915-11 CCB    | 14:01:05 | 81                          | 83       | 101 | 95 | 97      |
| R1982915-12 CCV    | 14:07:13 | 78                          | 83       | 98  | 95 | 97      |
| R1982915-13 CCB    | 14:12:09 | 80                          | 79       | 96  | 89 | 91      |
| WG2085103-1 BLANK  | 14:18:01 | 83                          | 85       | 96  | 93 | 95      |
| WG2085103-2 LCS    | 14:22:54 | 80                          | 83       | 98  | 93 | 96      |
| L2540791-01        | 14:27:49 | 80                          | 85       | 96  | 90 | 89      |
| WG2085103-3 MS     | 14:32:43 | 79                          | 84       | 100 | 93 | 94      |
| WG2085103-4 DUP    | 14:37:38 | 79                          | 84       | 98  | 91 | 89      |
| R1982915-14 CCV    | 15:06:51 | 78                          | 82       | 75  | 70 | 71      |
| R1982915-15 CCB    | 15:11:48 | 78                          | 79       | 98  | 90 | 93      |
| R1982915-16 CCV    | 15:21:16 | 79                          | 82       | 96  | 90 | 93      |
| R1982915-17 CCB    | 15:26:12 | 79                          | 83       | 99  | 92 | 95      |
| WG2085103-6 SERDIL | 15:40:02 | 78                          | 82       | 99  | 93 | 95      |
| R1982915-18 CCV    | 15:49:48 | 81                          | 86       | 97  | 92 | 93      |
| R1982915-19 CCB    | 15:54:45 | 79                          | 82       | 99  | 93 | 96      |



# Form 15

## ICP-MS Internal Standards Relative Intensity Summary

Client : Phoenix Environmental  
 Project Name : RAMSEY SD  
 Instrument ID : ICPMSQ  
 Start Date : 06/30/25

Lab Number : L2540791  
 Project Number : RAMSEY SD  
 Analysis Method : 1,6020B  
 End Date : 06/30/25

| Sample #          | Time     | Internal Standards %RI For: |          |     |    |         |
|-------------------|----------|-----------------------------|----------|-----|----|---------|
|                   |          | Lithium                     | Scandium | Ge  | In | Bismuth |
| R1982915-1 ICV    | 10:16:12 | 97                          | 94       | 94  | 93 | 94      |
| R1982915-2 ICB    | 10:21:08 | 97                          | 95       | 94  | 92 | 93      |
| R1982915-3 ICB    | 10:28:59 | 98                          | 96       | 95  | 94 | 95      |
| R1982915-4 ICSA   | 10:35:28 | 65                          | 77       | 92  | 90 | 79      |
| R1982915-5 CCV    | 10:50:08 | 82                          | 88       | 98  | 94 | 96      |
| R1982915-6 CCB    | 10:55:05 | 68                          | 71       | 96  | 94 | 96      |
| R1982915-7 CCV    | 12:01:20 | 79                          | 82       | 96  | 94 | 95      |
| R1982915-8 CCB    | 12:06:16 | 81                          | 82       | 95  | 93 | 95      |
| WG2085094-1 BLANK | 13:17:07 | 84                          | 85       | 94  | 92 | 92      |
| WG2085094-2 LCS   | 13:21:59 | 81                          | 84       | 95  | 92 | 94      |
| L2540791-02       | 13:51:14 | 84                          | 89       | 98  | 91 | 88      |
| R1982915-10 CCV   | 13:56:08 | 81                          | 83       | 98  | 92 | 91      |
| R1982915-11 CCB   | 14:01:05 | 81                          | 83       | 101 | 95 | 97      |
| R1982915-12 CCV   | 14:07:13 | 78                          | 83       | 98  | 95 | 97      |
| R1982915-13 CCB   | 14:12:09 | 80                          | 79       | 96  | 89 | 91      |



# Form 15

## ICP-MS Internal Standards Relative Intensity Summary

Client : Phoenix Environmental  
 Project Name : RAMSEY SD  
 Instrument ID : ICPMSQ3  
 Start Date : 06/30/25

Lab Number : L2540791  
 Project Number : RAMSEY SD  
 Analysis Method : 1,6020B  
 End Date : 06/30/25

| Sample #          | Time     | Internal Standards %RI For: |          |    |    |         |
|-------------------|----------|-----------------------------|----------|----|----|---------|
|                   |          | Lithium                     | Scandium | Ge | In | Bismuth |
| R1983052-1 ICV    | 15:25:36 | 93                          | 98       | 95 | 97 | 97      |
| R1983052-2 ICB    | 15:30:39 | 92                          | 96       | 96 | 95 | 97      |
| R1983052-3 ICSA   | 16:25:06 | 54                          | 75       | 70 | 83 | 83      |
| R1983052-4 CCV    | 16:59:04 | 81                          | 93       | 92 | 92 | 92      |
| R1983052-5 CCB    | 17:04:08 | 81                          | 92       | 91 | 91 | 94      |
| R1983052-6 CCV    | 17:29:51 | 82                          | 94       | 93 | 94 | 94      |
| R1983052-7 CCB    | 17:34:55 | 86                          | 96       | 95 | 93 | 95      |
| R1983052-8 CCV    | 17:53:47 | 80                          | 92       | 93 | 90 | 93      |
| R1983052-9 CCB    | 17:58:51 | 86                          | 94       | 96 | 96 | 96      |
| R1983052-11 CCV   | 18:44:06 | 87                          | 97       | 99 | 98 | 99      |
| R1983052-12 CCB   | 18:49:10 | 85                          | 98       | 96 | 95 | 97      |
| R1983052-13 CCV   | 19:02:08 | 86                          | 97       | 98 | 96 | 99      |
| R1983052-14 CCB   | 19:07:12 | 85                          | 94       | 94 | 95 | 96      |
| WG2085103-1 BLANK | 19:38:16 | 85                          | 93       | 92 | 91 | 95      |
| WG2085103-2 LCS   | 19:43:16 | 81                          | 93       | 93 | 90 | 94      |
| L2540791-01       | 19:48:17 | 82                          | 95       | 94 | 93 | 93      |
| WG2085103-3 MS    | 19:53:18 | 86                          | 96       | 95 | 95 | 97      |
| WG2085103-4 DUP   | 19:58:19 | 86                          | 100      | 97 | 96 | 96      |
| R1983052-15 CCV   | 20:13:21 | 87                          | 98       | 98 | 98 | 99      |
| R1983052-16 CCB   | 20:18:25 | 87                          | 97       | 94 | 96 | 97      |



## **Run Logs**

## Form 13

### Analysis Run Log

Client : Phoenix Environmental  
Project Name : RAMSEY SD  
Instrument ID : ICPMSQ2  
Start Date : 06/30/25 06:12

**Lab Number : L2540791**  
**Project Number : RAMSEY SD**  
**Analysis Method : 1,6020B**  
**End Date : 06/30/25 18:15**

[illegible]



## Form 13

### Analysis Run Log

Client : Phoenix Environmental  
Project Name : RAMSEY SD  
Instrument ID : ICPMSQ2  
Start Date : 06/30/25 06:12

**Lab Number : L2540791**  
**Project Number : RAMSEY SD**  
**Analysis Method : 1,6020B**  
**End Date : 06/30/25 18:15**

[illegible]

## Form 13

### Analysis Run Log

**Client** : Phoenix Environmental  
**Project Name** : RAMSEY SD  
**Instrument ID** : ICPMSQ2  
**Start Date** : 06/30/25 06:12

**Lab Number : L2540791**  
**Project Number : RAMSEY SD**  
**Analysis Method : 1,6020B**  
**End Date : 06/30/25 15:58**

[illegible]

## Form 13

### Analysis Run Log

Client : Phoenix Environmental  
Project Name : RAMSEY SD  
Instrument ID : ICPMSQ2  
Start Date : 06/30/25 06:12

Lab Number : L2540791  
Project Number : RAMSEY SD  
Analysis Method : 1,6020B  
End Date : 06/30/25 15:58

[illegible]

## Form 13

### Analysis Run Log

Client : Phoenix Environmental  
Project Name : RAMSEY SD  
Instrument ID : ICPMSQ  
Start Date : 06/30/25 09:04

**Lab Number : L2540791**  
**Project Number : RAMSEY SD**  
**Analysis Method : 1,6020B**  
**End Date : 06/30/25 15:54**

[illegible]

## Form 13

### Analysis Run Log

Client : Phoenix Environmental  
Project Name : RAMSEY SD  
Instrument ID : ICPMSQ  
Start Date : 06/30/25 09:04

Lab Number : L2540791  
Project Number : RAMSEY SD  
Analysis Method : 1,6020B  
End Date : 06/30/25 14:12

[illegible]

## Form 13

### Analysis Run Log

Client : Phoenix Environmental  
Project Name : RAMSEY SD  
Instrument ID : ICPMSQ3  
Start Date : 06/30/25 14:06

**Lab Number : L2540791**  
**Project Number : RAMSEY SD**  
**Analysis Method : 1,6020B**  
**End Date : 06/30/25 20:18**

[illegible]

# **Digestion Logs**

## **ICPMS**

## Form 12

### Preparation Log

Client : Phoenix Environmental  
Project Name : RAMSEY SD  
Matrix : WATER

Lab Number : L2540791  
Project Number : RAMSEY SD  
Prep Method : EPA 3005A

| Sample<br>Number | Preparation<br>Date | Weight<br>(gram) | Volume<br>(mL) |
|------------------|---------------------|------------------|----------------|
| L2540791-01      | 06/30/25 08:55      | -                | 50             |
| WG2085103-1      | 06/30/25 08:55      | -                | 50             |
| WG2085103-2      | 06/30/25 08:55      | -                | 50             |
| WG2085103-3      | 06/30/25 08:55      | -                | 50             |
| WG2085103-4      | 06/30/25 08:55      | -                | 50             |



## Form 12

### Preparation Log

Client : Phoenix Environmental  
Project Name : RAMSEY SD  
Matrix : WATER

Lab Number : L2540791  
Project Number : RAMSEY SD  
Prep Method : EPA 3005A

| Sample<br>Number | Preparation<br>Date | Weight<br>(gram) | Volume<br>(mL) |
|------------------|---------------------|------------------|----------------|
| L2540791-02      | 06/30/25 08:55      | -                | 50             |
| WG2085094-1      | 06/30/25 08:55      | -                | 50             |
| WG2085094-2      | 06/30/25 08:55      | -                | 50             |

## Form 12 Preparation Log

Client : Phoenix Environmental  
Project Name : RAMSEY SD  
Matrix : WATER

Lab Number : L2540791  
Project Number : RAMSEY SD  
Prep Method : EPA 3005A

| Sample<br>Number | Preparation<br>Date | Weight<br>(gram) | Volume<br>(mL) |
|------------------|---------------------|------------------|----------------|
| L2540791-01      | 06/30/25 08:55      | -                | 50             |
| WG2085103-1      | 06/30/25 08:55      | -                | 50             |
| WG2085103-2      | 06/30/25 08:55      | -                | 50             |
| WG2085103-3      | 06/30/25 08:55      | -                | 50             |
| WG2085103-4      | 06/30/25 08:55      | -                | 50             |
| WG2085103-6      | 06/30/25 08:55      | -                | 50             |



## Form 12

### Preparation Log

Client : Phoenix Environmental  
Project Name : RAMSEY SD  
Matrix : WATER

Lab Number : L2540791  
Project Number : RAMSEY SD  
Prep Method : EPA 3005A

| Sample<br>Number | Preparation<br>Date | Weight<br>(gram) | Volume<br>(mL) |
|------------------|---------------------|------------------|----------------|
| L2540791-02      | 06/30/25 08:55      | -                | 50             |
| WG2085094-1      | 06/30/25 08:55      | -                | 50             |
| WG2085094-2      | 06/30/25 08:55      | -                | 50             |

## Form 12

### Preparation Log

Client : Phoenix Environmental  
Project Name : RAMSEY SD  
Matrix : WATER

Lab Number : L2540791  
Project Number : RAMSEY SD  
Prep Method : EPA 3005A

| Sample<br>Number | Preparation<br>Date | Weight<br>(gram) | Volume<br>(mL) |
|------------------|---------------------|------------------|----------------|
| L2540791-01      | 06/30/25 08:55      | -                | 50             |
| WG2085103-1      | 06/30/25 08:55      | -                | 50             |
| WG2085103-2      | 06/30/25 08:55      | -                | 50             |
| WG2085103-3      | 06/30/25 08:55      | -                | 50             |
| WG2085103-4      | 06/30/25 08:55      | -                | 50             |

## **Inorganic Data (Mercury Analysis)**

## **Sample Results Summary**

# Form 1

## METALS

Client : Phoenix Environmental  
Project Name : RAMSEY SD  
Lab ID : L2540791-02  
Client ID : 13-0627-01B  
Sample Location : RAMSEY HS  
Sample Matrix : WATER  
Analytical Method : 1,7470A  
Lab File ID : WG2085200.pdf  
Sample Amount : 25ml  
Digestion Method : EPA 7470A

Lab Number : L2540791  
Project Number : RAMSEY SD  
Date Collected : 06/27/25 13:34  
Date Received : 06/27/25  
Date Analyzed : 06/30/25 14:23  
Dilution Factor : 1  
Analyst : MJR  
Instrument ID : NIC5  
%Solids : N/A  
Date Digested : 06/30/25

| CAS NO.   | Parameter      | ug/L    |        |        | Qualifier |
|-----------|----------------|---------|--------|--------|-----------|
|           |                | Results | RL     | MDL    |           |
| 7439-97-6 | Mercury, Total | ND      | 0.2000 | 0.0915 | U         |



# Form 1 METALS

Client : Phoenix Environmental  
 Project Name : RAMSEY SD  
 Lab ID : WG2085095-1  
 Client ID : WG2085095-1BLANK  
 Sample Location :  
 Sample Matrix : WATER  
 Analytical Method : 1,7470A  
 Lab File ID : WG2085200.pdf  
 Sample Amount : 25ml  
 Digestion Method : EPA 7470A

Lab Number : L2540791  
 Project Number : RAMSEY SD  
 Date Collected : NA  
 Date Received : NA  
 Date Analyzed : 06/30/25 14:08  
 Dilution Factor : 1  
 Analyst : MJR  
 Instrument ID : NIC5  
 %Solids : N/A  
 Date Digested : 06/30/25

| CAS NO.   | Parameter      | ug/L    |        |        | Qualifier |
|-----------|----------------|---------|--------|--------|-----------|
|           |                | Results | RL     | MDL    |           |
| 7439-97-6 | Mercury, Total | ND      | 0.2000 | 0.0915 | U         |





# Form 1

## METALS

Client : Phoenix Environmental  
 Project Name : RAMSEY SD  
 Lab ID : L2540791-01  
 Client ID : 13-0627-01A  
 Sample Location : RAMSEY HS  
 Sample Matrix : WATER  
 Analytical Method : 1,7470A  
 Lab File ID : WG2085284.pdf  
 Sample Amount : 25ml  
 Digestion Method : EPA 7470A

Lab Number : L2540791  
 Project Number : RAMSEY SD  
 Date Collected : 06/27/25 13:34  
 Date Received : 06/27/25  
 Date Analyzed : 06/30/25 14:37  
 Dilution Factor : 1  
 Analyst : CME  
 Instrument ID : NIC1  
 %Solids : N/A  
 Date Digested : 06/30/25

| CAS NO.   | Parameter          | ug/L    |        |        | Qualifier |
|-----------|--------------------|---------|--------|--------|-----------|
|           |                    | Results | RL     | MDL    |           |
| 7439-97-6 | Mercury, Dissolved | ND      | 0.2000 | 0.0915 | U         |



# Form 1

## METALS

Client : Phoenix Environmental  
Project Name : RAMSEY SD  
Lab ID : WG2085104-1  
Client ID : WG2085104-1BLANK  
Sample Location :  
Sample Matrix : WATER  
Analytical Method : 1,7470A  
Lab File ID : WG2085284.pdf  
Sample Amount : 25ml  
Digestion Method : EPA 7470A

Lab Number : L2540791  
Project Number : RAMSEY SD  
Date Collected : NA  
Date Received : NA  
Date Analyzed : 06/30/25 14:30  
Dilution Factor : 1  
Analyst : CME  
Instrument ID : NIC1  
%Solids : N/A  
Date Digested : 06/30/25

| CAS NO.   | Parameter          | ug/L    |        |        | Qualifier |
|-----------|--------------------|---------|--------|--------|-----------|
|           |                    | Results | RL     | MDL    |           |
| 7439-97-6 | Mercury, Dissolved | ND      | 0.2000 | 0.0915 | U         |



# Form 1

## METALS

Client : Phoenix Environmental  
 Project Name : RAMSEY SD  
 Lab ID : WG2085104-4  
 Client ID : 13-0627-01ADUP  
 Sample Location :  
 Sample Matrix : WATER  
 Analytical Method : 1,7470A  
 Lab File ID : WG2085284.pdf  
 Sample Amount : 25ml  
 Digestion Method : EPA 7470A

Lab Number : L2540791  
 Project Number : RAMSEY SD  
 Date Collected : 06/27/25 13:34  
 Date Received : 06/27/25  
 Date Analyzed : 06/30/25 14:43  
 Dilution Factor : 1  
 Analyst : CME  
 Instrument ID : NIC1  
 %Solids : N/A  
 Date Digested : 06/30/25

| CAS NO.   | Parameter          | ug/L    |        |        | Qualifier |
|-----------|--------------------|---------|--------|--------|-----------|
|           |                    | Results | RL     | MDL    |           |
| 7439-97-6 | Mercury, Dissolved | ND      | 0.2000 | 0.0915 | U         |



## **Blank Results Summary**

## Form 3 Blanks

Client : Phoenix Environmental  
Project Name : RAMSEY SD  
Instrument ID : NIC5

Lab Number : L2540791  
Project Number : RAMSEY SD

|                 | Initial Calibration<br>Blank |   | Continuing Calibration<br>Blank(s) |                |                |   | Preparation<br>Blank |   |
|-----------------|------------------------------|---|------------------------------------|----------------|----------------|---|----------------------|---|
| Lab ID :        | R1982855-2                   |   | R1982855-4                         | R1982855-6     | R1982855-8     |   | WG2085095-1          |   |
| Date Analyzed : | 06/30/25 09:50               |   | 06/30/25 11:08                     | 06/30/25 11:44 | 06/30/25 12:19 |   | 06/30/25 14:08       |   |
| Parameter       | mg/l                         | Q | mg/l                               | Q              | mg/l           | Q | ug/l                 | Q |
| Mercury         | 0.0000915                    | U | 0.0000915                          | U              | 0.0000915      | U | 0.0915               | U |



## Form 3 Blanks

Client : Phoenix Environmental  
 Project Name : RAMSEY SD  
 Instrument ID : NIC5

Lab Number : L2540791  
 Project Number : RAMSEY SD

| Parameter       | Initial Calibration |   | Continuing Calibration |   |      |   | Preparation |   |
|-----------------|---------------------|---|------------------------|---|------|---|-------------|---|
|                 | Blank               |   | Blank(s)               |   |      |   | Blank       |   |
| Lab ID :        |                     |   | R1982855-10            |   |      |   |             |   |
| Date Analyzed : |                     |   | 06/30/25 15:06         |   |      |   |             |   |
|                 | mg/l                | Q | mg/l                   | Q | mg/l | Q | mg/l        | Q |
| Mercury         |                     |   | 0.0000915              | U |      |   |             |   |



## Form 3 Blanks

Client : Phoenix Environmental  
 Project Name : RAMSEY SD  
 Instrument ID : NIC1

Lab Number : L2540791  
 Project Number : RAMSEY SD

|                 | Initial Calibration |   | Continuing Calibration |                |                |   | Preparation    |   |
|-----------------|---------------------|---|------------------------|----------------|----------------|---|----------------|---|
|                 | Blank               |   | Blank(s)               |                |                |   | Blank          |   |
| Lab ID :        | R1983001-2          |   | R1983001-4             | R1983001-6     | R1983001-8     |   | WG2085104-1    |   |
| Date Analyzed : | 06/30/25 12:17      |   | 06/30/25 12:50         | 06/30/25 13:41 | 06/30/25 14:20 |   | 06/30/25 14:30 |   |
| Parameter       | mg/l                | Q | mg/l                   | Q              | mg/l           | Q | ug/l           | Q |
| Mercury         | 0.0000915           | U | 0.0000915              | U              | 0.0000915      | U | 0.0915         | U |



# Form 3 Blanks

Client : Phoenix Environmental  
Project Name : RAMSEY SD  
Instrument ID : NIC1

Lab Number : L2540791  
Project Number : RAMSEY SD

| Parameter       | Initial Calibration Blank |   | Continuing Calibration Blank(s) |   |      |   | Preparation Blank |   |
|-----------------|---------------------------|---|---------------------------------|---|------|---|-------------------|---|
|                 | mg/l                      | Q | mg/l                            | Q | mg/l | Q | mg/l              | Q |
| Lab ID :        |                           |   | R1983001-10                     |   |      |   |                   |   |
| Date Analyzed : |                           |   | 06/30/25 14:59                  |   |      |   |                   |   |
| Mercury         |                           |   | 0.0000915                       | U |      |   |                   |   |





## **Calibration Summary**

## Form 2A

### Initial and Continuing Calibration Verification

Client : Phoenix Environmental  
 Project Name : RAMSEY SD  
 Instrument ID : NIC5

Lab Number : L2540791  
 Project Number : RAMSEY SD  
 Units : mg/l

| Parameter | Initial Calibration |                |     | Continuing Calibration(s) |                |    |            |                |            |
|-----------|---------------------|----------------|-----|---------------------------|----------------|----|------------|----------------|------------|
|           | Lab ID              | Date Analyzed  |     | Lab ID                    | Date Analyzed  |    |            |                |            |
|           | R1982855-1          | 06/30/25 09:47 |     | R1982855-3                | 06/30/25 11:05 |    | R1982855-5 | 06/30/25 11:41 | R1982855-7 |
|           | True                | Found          | %R  | True                      | Found          | %R | Found      | %R             | Found      |
| Mercury   | 0.00300             | 0.0032         | 108 | 0.0050                    | 0.00490        | 98 | 0.00490    | 98             | 0.00490    |

**Acceptance Criteria:**

ICV: 95-105% (Methods 200.7, 245.1)  
 90-110% (Methods 200.8, 6010, 6020, 7470, 7471, 7474)  
 77-123% (Method 1631)  
 76-113% (Method 245.7)

CCV: 90-110% (Methods 200.7, 245.1, 6010, 6020, 7474)  
 85-115% (Method 200.8)  
 80-120% (Methods 7470, 7471)  
 77-123% (Method 1631)  
 76-113% (Method 245.7)



## Form 2A

### Initial and Continuing Calibration Verification

Client : Phoenix Environmental  
 Project Name : RAMSEY SD  
 Instrument ID : NIC5

Lab Number : L2540791  
 Project Number : RAMSEY SD  
 Units : mg/l

| Parameter | Lab ID :<br>Date Analyzed : | Initial Calibration |       |    | Continuing Calibration(s) |         |    |       |    |       |    |
|-----------|-----------------------------|---------------------|-------|----|---------------------------|---------|----|-------|----|-------|----|
|           |                             | True                | Found | %R | True                      | Found   | %R | Found | %R | Found | %R |
| Mercury   |                             |                     |       |    | 0.0050                    | 0.00480 | 97 |       |    |       |    |

#### Acceptance Criteria:

ICV: 95-105% (Methods 200.7, 245.1)  
 90-110% (Methods 200.8, 6010, 6020, 7470, 7471, 7474)  
 77-123% (Method 1631)  
 76-113% (Method 245.7)

CCV: 90-110% (Methods 200.7, 245.1, 6010, 6020, 7474)  
 85-115% (Method 200.8)  
 80-120% (Methods 7470, 7471)  
 77-123% (Method 1631)  
 76-113% (Method 245.7)



## Form 2A

### Initial and Continuing Calibration Verification

Client : Phoenix Environmental  
 Project Name : RAMSEY SD  
 Instrument ID : NIC1

Lab Number : L2540791  
 Project Number : RAMSEY SD  
 Units : mg/l

|           | Initial Calibration |                  |        | Continuing Calibration(s) |                |         |    |                |    |                |    |
|-----------|---------------------|------------------|--------|---------------------------|----------------|---------|----|----------------|----|----------------|----|
|           | Lab ID              | : R1983001-1     |        |                           | R1983001-3     |         |    | R1983001-5     |    | R1983001-7     |    |
|           | Date Analyzed       | : 06/30/25 12:14 |        |                           | 06/30/25 12:47 |         |    | 06/30/25 13:37 |    | 06/30/25 14:17 |    |
| Parameter |                     | True             | Found  | %R                        | True           | Found   | %R | Found          | %R | Found          | %R |
| Mercury   |                     | 0.00300          | 0.0032 | 108                       | 0.0050         | 0.00490 | 99 | 0.00490        | 98 | 0.00490        | 98 |

#### Acceptance Criteria:

ICV: 95-105% (Methods 200.7, 245.1)  
 90-110% (Methods 200.8, 6010, 6020, 7470, 7471, 7474)  
 77-123% (Method 1631)  
 76-113% (Method 245.7)

CCV: 90-110% (Methods 200.7, 245.1, 6010, 6020, 7474)  
 85-115% (Method 200.8)  
 80-120% (Methods 7470, 7471)  
 77-123% (Method 1631)  
 76-113% (Method 245.7)



## Form 2A

### Initial and Continuing Calibration Verification

Client : Phoenix Environmental  
 Project Name : RAMSEY SD  
 Instrument ID : NIC1

Lab Number : L2540791  
 Project Number : RAMSEY SD  
 Units : mg/l

| Parameter | Initial Calibration |       |    | Continuing Calibration(s) |         |    |       |    |       |
|-----------|---------------------|-------|----|---------------------------|---------|----|-------|----|-------|
|           | True                | Found | %R | True                      | Found   | %R | Found | %R | Found |
| Mercury   |                     |       |    | 0.0050                    | 0.00490 | 98 |       |    |       |

#### Acceptance Criteria:

ICV: 95-105% (Methods 200.7, 245.1)  
 90-110% (Methods 200.8, 6010, 6020, 7470, 7471, 7474)  
 77-123% (Method 1631)  
 76-113% (Method 245.7)

CCV: 90-110% (Methods 200.7, 245.1, 6010, 6020, 7474)  
 85-115% (Method 200.8)  
 80-120% (Methods 7470, 7471)  
 77-123% (Method 1631)  
 76-113% (Method 245.7)



## **Spike Sample Results**

## Form 5a Matrix Spike

Client : Phoenix Environmental  
 Project Name : RAMSEY SD  
 Client Sample ID : 13-0627-01A  
 Lab Sample ID : L2540791-01  
 Matrix Spike : WG2085104-3  
 Matrix Spike Dup :

Lab Number : L2540791  
 Project Number : RAMSEY SD  
 Matrix : WATER  
 MS Analysis Date : 06/30/25 14:40  
 MSD Analysis Date :

| Parameter          | Sample<br>Conc.<br>(ug/l) | Matrix Spike Sample      |                          |    | Matrix Spike Duplicate   |                          |    | RPD | Recovery<br>Limits | RPD<br>Limit |
|--------------------|---------------------------|--------------------------|--------------------------|----|--------------------------|--------------------------|----|-----|--------------------|--------------|
|                    |                           | Spike<br>Added<br>(ug/l) | Spike<br>Conc.<br>(ug/l) | %R | Spike<br>Added<br>(ug/l) | Spike<br>Conc.<br>(ug/l) | %R |     |                    |              |
| Mercury, Dissolved | ND                        | 5                        | 4.608                    | 92 |                          |                          |    |     | 75-125             | 20           |



## **Duplicate Sample Results Summary**



## Form 6 Lab Duplicates

Client : Phoenix Environmental  
Project Name : RAMSEY SD  
Client Sample ID : 13-0627-01A  
Lab Sample ID : L2540791-01  
Dup Sample ID : WG2085104-4

Lab Number : L2540791  
Project Number : RAMSEY SD  
Matrix : WATER  
Analysis Date : 06/30/25 14:37  
DUP Analysis Date : 06/30/25 14:43

| Parameter          | Sample<br>Concentration<br>(ug/l) | Duplicate<br>Concentration<br>(ug/l) | RPD | RPD<br>Limit |
|--------------------|-----------------------------------|--------------------------------------|-----|--------------|
| Mercury, Dissolved | ND                                | ND                                   | NC  | 20           |



## **LCS Sample Results Summary**

## Form 7 Laboratory Control Sample

Client : Phoenix Environmental  
 Project Name : RAMSEY SD  
 Client Sample ID : NA  
 Lab Sample ID : WG2085095-2  
 Dup Sample ID :

Lab Number : L2540791  
 Project Number : RAMSEY SD  
 Matrix : WATER  
 LCS Analysis Date : 06/30/25 14:11  
 LCSD Analysis Date :

| Parameter      | Laboratory Control Sample |              |     | Laboratory Control Duplicate |              |    | RPD | Recovery Limits | RPD Limit |
|----------------|---------------------------|--------------|-----|------------------------------|--------------|----|-----|-----------------|-----------|
|                | True (ug/l)               | Found (ug/l) | %R  | True (ug/l)                  | Found (ug/l) | %R |     |                 |           |
| Mercury, Total | 1.00                      | 0.960        | 96. |                              |              |    |     | 80-120          | 20        |



# Form 7

## Laboratory Control Sample

Client : Phoenix Environmental  
 Project Name : RAMSEY SD  
 Client Sample ID : NA  
 Lab Sample ID : WG2085104-2  
 Dup Sample ID :

Lab Number : L2540791  
 Project Number : RAMSEY SD  
 Matrix : WATER  
 LCS Analysis Date : 06/30/25 14:33  
 LCSD Analysis Date :

| Parameter          | Laboratory Control Sample |              |     | Laboratory Control Duplicate |              |    | RPD | Recovery Limits | RPD Limit |
|--------------------|---------------------------|--------------|-----|------------------------------|--------------|----|-----|-----------------|-----------|
|                    | True (ug/l)               | Found (ug/l) | %R  | True (ug/l)                  | Found (ug/l) | %R |     |                 |           |
| Mercury, Dissolved | 1.00                      | 0.946        | 95. |                              |              |    |     | 80-120          | 20        |



# Run Logs

## Form 13

### Analysis Run Log

**Client** : Phoenix Environmental  
**Project Name** : RAMSEY SD  
**Instrument ID** : NIC5  
**Start Date** : 06/30/25 09:47

**Lab Number : L2540791**  
**Project Number : RAMSEY SD**  
**Analysis Method : 1,7470A**  
**End Date : 06/30/25 15:06**

[illegible]

## Form 13

### Analysis Run Log

**Client** : Phoenix Environmental  
**Project Name** : RAMSEY SD  
**Instrument ID** : NIC1  
**Start Date** : 06/30/25 12:14

**Lab Number : L2540791**  
**Project Number : RAMSEY SD**  
**Analysis Method : 1,7470A**  
**End Date : 06/30/25 14:59**

[illegible]

# **Digestion Logs**

## **Mercury**



## Form 12

### Preparation Log

Client : Phoenix Environmental  
Project Name : RAMSEY SD  
Matrix : WATER

Lab Number : L2540791  
Project Number : RAMSEY SD  
Prep Method : EPA 7470A

| Sample<br>Number | Preparation<br>Date | Weight<br>(gram) | Volume<br>(mL) |
|------------------|---------------------|------------------|----------------|
| L2540791-02      | 06/30/25 11:40      | -                | 25             |
| WG2085095-1      | 06/30/25 11:40      | -                | 25             |
| WG2085095-2      | 06/30/25 11:40      | -                | 25             |

## Form 12

### Preparation Log

Client : Phoenix Environmental  
Project Name : RAMSEY SD  
Matrix : WATER

Lab Number : L2540791  
Project Number : RAMSEY SD  
Prep Method : EPA 7470A

| Sample<br>Number | Preparation<br>Date | Weight<br>(gram) | Volume<br>(mL) |
|------------------|---------------------|------------------|----------------|
| L2540791-01      | 06/30/25 11:40      | -                | 25             |
| WG2085104-1      | 06/30/25 11:40      | -                | 25             |
| WG2085104-2      | 06/30/25 11:40      | -                | 25             |
| WG2085104-3      | 06/30/25 11:40      | -                | 25             |
| WG2085104-4      | 06/30/25 11:40      | -                | 25             |