

**metals**  
**- 5a -**  
**MATRIX SPIKE SUMMARY**

**client:** RU2 Engineering, LLC      **level:** low      **sdg no.:** Q1241  
**contract:** RUTW01      **lab code:** CHEM      **case no.:** Q1241      **sas no.:** Q1241  
**matrix:** Water      **sample id:** Q1262-05      **client id:** 3762MS  
**Percent Solids for Sample:** NA      **Spiked ID:** Q1262-05MS      **Percent Solids for Spike Sample:** NA

| Analyte  | Units | Acceptance<br>Limit %R | Spiked<br>Result | C | Sample<br>Result | C | Spike<br>Added | %<br>Recovery | Qual | M  |
|----------|-------|------------------------|------------------|---|------------------|---|----------------|---------------|------|----|
| Arsenic  | ug/L  | 75 - 125               | 3880             |   | 100              | U | 4000           | 97            |      | P  |
| Barium   | ug/L  | 75 - 125               | 1640             |   | 644              |   | 1000           | 100           |      | P  |
| Cadmium  | ug/L  | 75 - 125               | 967              |   | 1.09             | J | 1000           | 97            |      | P  |
| Chromium | ug/L  | 75 - 125               | 2040             |   | 18.7             | J | 2000           | 101           |      | P  |
| Lead     | ug/L  | 75 - 125               | 4580             |   | 60.0             | U | 5000           | 92            |      | P  |
| Mercury  | ug/L  | 75 - 125               | 49.9             |   | 2.00             | U | 40.0           | 125           |      | CV |
| Selenium | ug/L  | 75 - 125               | 9410             |   | 100              | U | 10000          | 94            |      | P  |
| Silver   | ug/L  | 75 - 125               | 369              |   | 50.0             | U | 380            | 97            |      | P  |

**metals**  
**- 5a -**  
**MATRIX SPIKE DUPLICATE SUMMARY**

|                                             |                                      |                                                            |
|---------------------------------------------|--------------------------------------|------------------------------------------------------------|
| <b>client:</b> <u>RU2 Engineering, LLC</u>  | <b>level:</b> <u>low</u>             | <b>sdg no.:</b> <u>Q1241</u>                               |
| <b>contract:</b> <u>RUTW01</u>              | <b>lab code:</b> <u>CHEM</u>         | <b>case no.:</b> <u>Q1241</u> <b>sas no.:</b> <u>Q1241</u> |
| <b>matrix:</b> <u>Water</u>                 | <b>sample id:</b> <u>Q1262-05</u>    | <b>client id:</b> <u>3762MSD</u>                           |
| <b>Percent Solids for Sample:</b> <u>NA</u> | <b>Spiked ID:</b> <u>Q1262-05MSD</u> | <b>Percent Solids for Spike Sample:</b> <u>NA</u>          |

| Analyte  | Units | Acceptance<br>Limit %R | MSD<br>Result | C | Sample<br>Result | C | Spike<br>Added | %<br>Recovery | Qual | M  |
|----------|-------|------------------------|---------------|---|------------------|---|----------------|---------------|------|----|
| Arsenic  | ug/L  | 75 - 125               | 3860          |   | 100              | U | 4000           | 96            |      | P  |
| Barium   | ug/L  | 75 - 125               | 1560          |   | 644              |   | 1000           | 92            |      | P  |
| Cadmium  | ug/L  | 75 - 125               | 964           |   | 1.09             | J | 1000           | 96            |      | P  |
| Chromium | ug/L  | 75 - 125               | 2040          |   | 18.7             | J | 2000           | 101           |      | P  |
| Lead     | ug/L  | 75 - 125               | 4560          |   | 60.0             | U | 5000           | 91            |      | P  |
| Mercury  | ug/L  | 75 - 125               | 47.2          |   | 2.00             | U | 40.0           | 118           |      | CV |
| Selenium | ug/L  | 75 - 125               | 9480          |   | 100              | U | 10000          | 95            |      | P  |
| Silver   | ug/L  | 75 - 125               | 366           |   | 50.0             | U | 380            | 96            |      | P  |