

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

**client:** Coppola Services **level:** low **sdg no.:** Q2409  
**contract:** COPP02 **lab code:** CHEM **case no.:** Q2409 **sas no.:** Q2409  
**matrix:** Water **sample id:** Q2409-02 **client id:** COP-SOIL-PILEMS  
**Percent Solids for Sample:** NA **Spiked ID:** Q2409-02MS **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               | 4180             |   | 100              | U | 4000           | 104           |      | P  |
| Barium   | ug/L  | 75 - 125               | 1740             |   | 765              |   | 1000           | 98            |      | P  |
| Cadmium  | ug/L  | 75 - 125               | 1100             |   | 65.9             |   | 1000           | 103           |      | P  |
| Chromium | ug/L  | 75 - 125               | 2110             |   | 11.8             | J | 2000           | 105           |      | P  |
| Copper   | ug/L  | 75 - 125               | 1530             |   | 85.3             | J | 1500           | 96            |      | P  |
| Lead     | ug/L  | 75 - 125               | 5040             |   | 155              |   | 5000           | 98            |      | P  |
| Mercury  | ug/L  | 75 - 125               | 37.9             |   | 2.00             | U | 40.0           | 95            |      | CV |
| Nickel   | ug/L  | 75 - 125               | 2550             |   | 200              | U | 2500           | 102           |      | P  |
| Selenium | ug/L  | 75 - 125               | 9720             |   | 100              | U | 10000          | 97            |      | P  |
| Silver   | ug/L  | 75 - 125               | 351              |   | 50.0             | U | 380            | 94            |      | P  |
| Zinc     | ug/L  | 75 - 125               | 1600             |   | 580              |   | 1000           | 102           |      | P  |

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

**client:** Coppola Services **level:** low **sdg no.:** Q2409  
**contract:** COPP02 **lab code:** CHEM **case no.:** Q2409 **sas no.:** Q2409  
**matrix:** Water **sample id:** Q2409-02 **client id:** COP-SOIL-PILEMSD  
**Percent Solids for Sample:** NA **Spiked ID:** Q2409-02MSD **Percent Solids for Spike Sample:** NA

| 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               | 4250          |   | 100              | U | 4000           | 106           |      | P  |
| Barium   | ug/L  | 75 - 125               | 1730          |   | 765              |   | 1000           | 97            |      | P  |
| Cadmium  | ug/L  | 75 - 125               | 1110          |   | 65.9             |   | 1000           | 105           |      | P  |
| Chromium | ug/L  | 75 - 125               | 2150          |   | 11.8             | J | 2000           | 107           |      | P  |
| Copper   | ug/L  | 75 - 125               | 1540          |   | 85.3             | J | 1500           | 97            |      | P  |
| Lead     | ug/L  | 75 - 125               | 5110          |   | 155              |   | 5000           | 99            |      | P  |
| Mercury  | ug/L  | 75 - 125               | 37.9          |   | 2.00             | U | 40.0           | 95            |      | CV |
| Nickel   | ug/L  | 75 - 125               | 2600          |   | 200              | U | 2500           | 104           |      | P  |
| Selenium | ug/L  | 75 - 125               | 9860          |   | 100              | U | 10000          | 99            |      | P  |
| Silver   | ug/L  | 75 - 125               | 357           |   | 50.0             | U | 380            | 95            |      | P  |
| Zinc     | ug/L  | 75 - 125               | 1620          |   | 580              |   | 1000           | 103           |      | P  |