

**metals**  
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**MATRIX SPIKE SUMMARY**

**client:** Tetra Tech NUS, Inc. **level:** low **sdg no.:** P5316  
**contract:** TETR06 **lab code:** CHEM **case no.:** P5316 **sas no.:** P5316  
**matrix:** Solid **sample id:** P5355-01 **client id:** RBR251688MS  
**Percent Solids for Sample:** 81.7 **Spiked ID:** P5355-01MS **Percent Solids for Spike Sample:** 81.7

| Analyte   | Units | Acceptance<br>Limit %R | Spiked<br>Result | C | Sample<br>Result | C | Spike<br>Added | %<br>Recovery | Qual | M |
|-----------|-------|------------------------|------------------|---|------------------|---|----------------|---------------|------|---|
| Arsenic   | mg/Kg | 82 - 111               | 40.3             |   | 4.65             |   | 45.1           | 79            | N    | P |
| Barium    | mg/Kg | 83 - 113               | 351              |   | 332              |   | 11.3           | 170           |      | P |
| Beryllium | mg/Kg | 83 - 113               | 7.89             |   | 0.99             |   | 11.3           | 61            | N    | P |
| Cadmium   | mg/Kg | 82 - 113               | 14.6             |   | 3.59             |   | 11.3           | 97            |      | P |
| Chromium  | mg/Kg | 85 - 113               | 36.4             |   | 19.6             |   | 22.6           | 74            | N    | P |
| Copper    | mg/Kg | 81 - 117               | 51.2             |   | 37.2             |   | 16.9           | 83            |      | P |
| Lead      | mg/Kg | 81 - 112               | 151              |   | 95.0             |   | 56.4           | 99            |      | P |
| Manganese | mg/Kg | 84 - 114               | 2320             |   | 2230             |   | 11.3           | 816           |      | P |
| Nickel    | mg/Kg | 83 - 113               | 82.2             |   | 52.2             |   | 28.2           | 106           |      | P |
| Selenium  | mg/Kg | 78 - 111               | 81.0             |   | 1.08             | U | 110            | 74            | N    | P |
| Silver    | mg/Kg | 82 - 112               | 4.31             |   | 0.99             |   | 4.2            | 79            | N    | P |
| Zinc      | mg/Kg | 82 - 113               | 137              |   | 127              |   | 11.3           | 85            |      | P |

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**MATRIX SPIKE DUPLICATE SUMMARY**

**client:** Tetra Tech NUS, Inc. **level:** low **sdg no.:** P5316  
**contract:** TETR06 **lab code:** CHEM **case no.:** P5316 **sas no.:** P5316  
**matrix:** Solid **sample id:** P5355-01 **client id:** RBR251688MSD  
**Percent Solids for Sample:** 81.7 **Spiked ID:** P5355-01MSD **Percent Solids for Spike Sample:** 81.7

| Analyte   | Units | Acceptance<br>Limit %R | MSD<br>Result | C | Sample<br>Result | C | Spike<br>Added | %<br>Recovery | Qual | M |
|-----------|-------|------------------------|---------------|---|------------------|---|----------------|---------------|------|---|
| Arsenic   | mg/Kg | 82 - 111               | 37.5          |   | 4.65             |   | 42.6           | 77            | N    | P |
| Barium    | mg/Kg | 83 - 113               | 333           |   | 332              |   | 10.6           | 8             |      | P |
| Beryllium | mg/Kg | 83 - 113               | 7.46          |   | 0.99             |   | 10.6           | 61            | N    | P |
| Cadmium   | mg/Kg | 82 - 113               | 13.7          |   | 3.59             |   | 10.6           | 95            |      | P |
| Chromium  | mg/Kg | 85 - 113               | 34.3          |   | 19.6             |   | 21.3           | 69            | N    | P |
| Copper    | mg/Kg | 81 - 117               | 47.9          |   | 37.2             |   | 16.0           | 67            | N    | P |
| Lead      | mg/Kg | 81 - 112               | 141           |   | 95.0             |   | 53.2           | 87            |      | P |
| Manganese | mg/Kg | 84 - 114               | 2200          |   | 2230             |   | 10.6           | -321          |      | P |
| Nickel    | mg/Kg | 83 - 113               | 77.0          |   | 52.2             |   | 26.6           | 93            |      | P |
| Selenium  | mg/Kg | 78 - 111               | 75.6          |   | 1.08             | U | 110            | 69            | N    | P |
| Silver    | mg/Kg | 82 - 112               | 4.06          |   | 0.99             |   | 4.0            | 77            | N    | P |
| Zinc      | mg/Kg | 82 - 113               | 128           |   | 127              |   | 10.6           | 5             |      | P |

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**MATRIX SPIKE SUMMARY**

**client:** Tetra Tech NUS, Inc. **level:** low **sdg no.:** P5316  
**contract:** TETR06 **lab code:** CHEM **case no.:** P5316 **sas no.:** P5316  
**matrix:** Solid **sample id:** P5365-01 **client id:** TAPFTA-SB01I-4.5-121924-00-T1MS  
**Percent Solids for Sample:** 90.1 **Spiked ID:** P5365-01MS **Percent Solids for Spike Sample:** 90.1

| Analyte | Units | Acceptance<br>Limit %R | Spiked<br>Result | C | Sample<br>Result | C | Spike<br>Added | %<br>Recovery | Qual | M  |
|---------|-------|------------------------|------------------|---|------------------|---|----------------|---------------|------|----|
| Mercury | mg/Kg | 80 - 124               | 0.29             |   | 0.0080           | J | 0.29           | 99            |      | CV |

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**MATRIX SPIKE DUPLICATE SUMMARY**

|                                   |                             |                   |                    |                                         |                                         |                 |              |
|-----------------------------------|-----------------------------|-------------------|--------------------|-----------------------------------------|-----------------------------------------|-----------------|--------------|
| <b>client:</b>                    | <u>Tetra Tech NUS, Inc.</u> | <b>level:</b>     | <u>low</u>         | <b>sdg no.:</b>                         | <u>P5316</u>                            |                 |              |
| <b>contract:</b>                  | <u>TETR06</u>               | <b>lab code:</b>  | <u>CHEM</u>        | <b>case no.:</b>                        | <u>P5316</u>                            | <b>sas no.:</b> | <u>P5316</u> |
| <b>matrix:</b>                    | <u>Solid</u>                | <b>sample id:</b> | <u>P5365-01</u>    | <b>client id:</b>                       | <u>TAPFTA-SB01I-4.5-121924-00-T1MSD</u> |                 |              |
| <b>Percent Solids for Sample:</b> | 90.1                        | <b>Spiked ID:</b> | <u>P5365-01MSD</u> | <b>Percent Solids for Spike Sample:</b> | 90.1                                    |                 |              |

| Analyte | Units | Acceptance<br>Limit %R | MSD<br>Result | C | Sample<br>Result | C | Spike<br>Added | %<br>Recovery | Qual | M  |
|---------|-------|------------------------|---------------|---|------------------|---|----------------|---------------|------|----|
| Mercury | mg/Kg | 80 - 124               | 0.30          |   | 0.0080           | J | 0.28           | 106           |      | CV |