# Target: Scaraben

**Sol:** 2921
**Elev (m.):** -4127.67201640809

**CCAM Sequence ID:** CCAM01921

**Whole Target Classification:** Bedrock
**Lamination Strength:** Weakly Laminated
**Lamination Expression:** Primary Stratification
**Grain Visibility:** Below RMI Image Resolution
**Bedrock Appearance:** Dull
**Nodule Presence:** Absent
**Nodule Diameter:** Absent
**Nodule Resistance:** Absent
**Fracture Presence:** Occasional (<10% by Visual Inspection)

| # | Feature | SiO2 (wt%) | TiO2 (wt%) | Al2O3 (wt%) | FeOT (wt%) | MgO (wt%) | CaO (wt%) | Na2O (wt%) | K2O (wt%) | Sum of Oxides (wt%) |
|---|---|---|---|---|---|---|---|---|---|---|
| 1 | Bedrock | 53.3 | 0.84 | 8 | 15.9 | 10.4 | 1.6 | 1.98 | 0.79 | 92.81 |
| 2 | Bedrock | 54.1 | 0.83 | 10.6 | 16.8 | 9.3 | 1.5 | 2.24 | 0.87 | 96.24 |
| 3 | Bedrock | 53.5 | 0.93 | 9 | 15.7 | 9 | 1.8 | 2.19 | 0.78 | 92.9 |
| 4 | Bedrock | 52.3 | 0.97 | 9.6 | 18.3 | 9.6 | 1.4 | 2.32 | 0.81 | 95.3 |
| 5 | Bedrock | 55.1 | 0.88 | 10.3 | 17.1 | 9.1 | 1.7 | 2.04 | 0.72 | 96.94 |

# Target: Ness

**Sol:** 2921
**Elev (m.):** -4127.52462637797
**CCAM Sequence ID:** CCAM02921

**Whole Target Classification:** Bedrock
**Lamination Strength:** Moderately Laminated
**Lamination Expression:** Primary Stratification
**Grain Visibility:** Below RMI Image Resolution
**Bedrock Appearance:** Dull
**Nodule Presence:** Absent
**Nodule Diameter:** Absent
**Nodule Resistance:** Absent
**Fracture Presence:** Occasional (<10% by Visual Inspection)

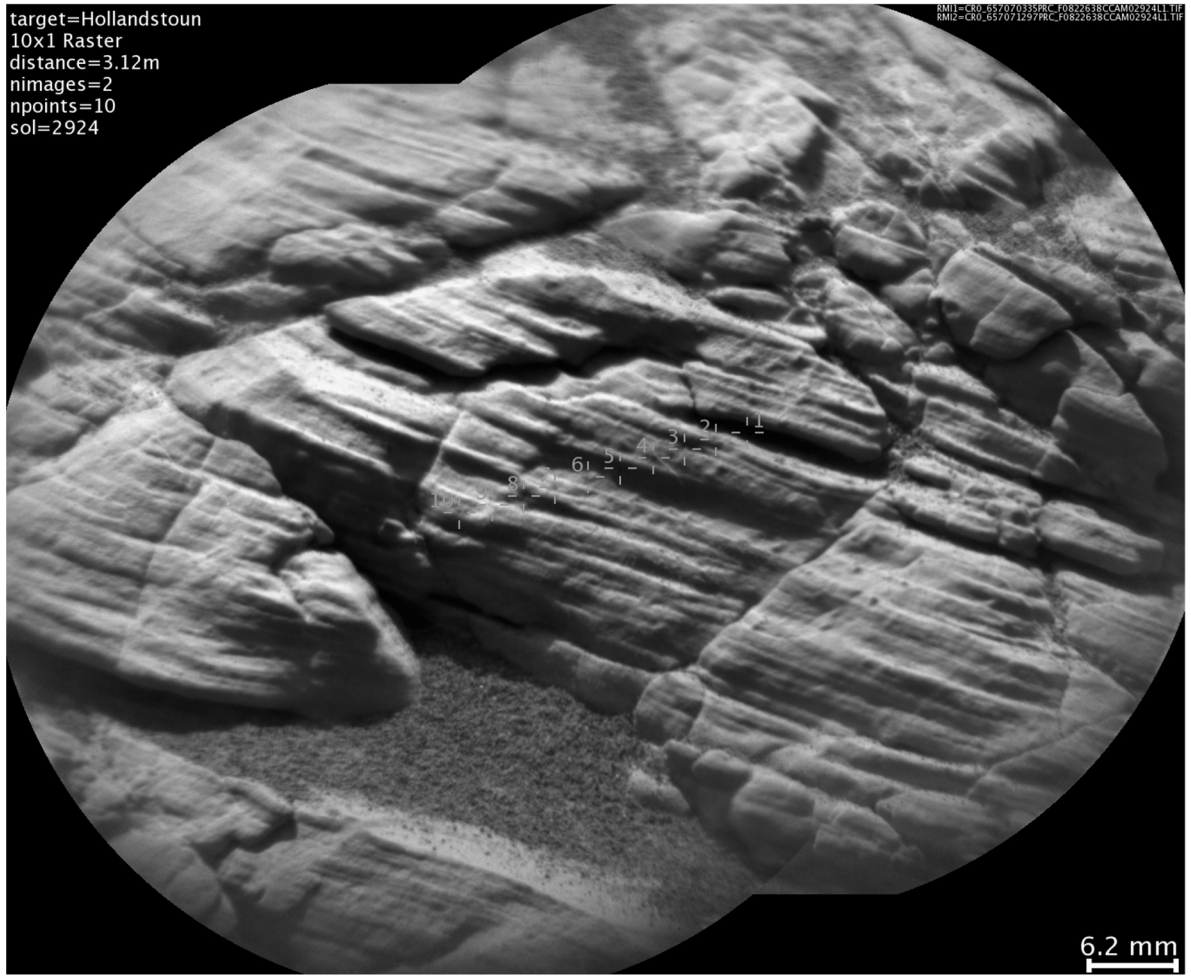
| # | Feature | SiO2 (wt%) | TiO2 (wt%) | Al2O3 (wt%) | FeOT (wt%) | MgO (wt%) | CaO (wt%) | Na2O (wt%) | K2O (wt%) | Sum of Oxides (wt%) |
|---|---|---|---|---|---|---|---|---|---|---|
| 1 | Bedrock | 55.3 | 0.91 | 12.5 | 15.3 | 9.1 | 2.3 | 2.62 | 1 | 99.03 |
| 2 | Bedrock | 54.5 | 0.92 | 12.2 | 16.8 | 10.2 | 2 | 2.35 | 0.85 | 99.82 |
| 3 | Bedrock | 54.2 | 1.7 | 12.3 | 16.1 | 9.6 | 2.1 | 2.57 | 1.01 | 99.58 |
| 4 | Vein or Fracture | 53.5 | 1.01 | 11.5 | 16.7 | 10.7 | 2.7 | 2.48 | 0.79 | 99.38 |
| 5 | Vein or Fracture | 52.2 | 0.92 | 12.5 | 16.1 | 11.8 | 2.3 | 2.4 | 0.74 | 98.96 |
| 6 | Bedrock | 55.5 | 1.3 | 10.7 | 16.2 | 11.2 | 1.9 | 2.42 | 0.87 | 100.09 |
| 7 | Bedrock | 53.7 | 0.85 | 12.2 | 15.1 | 11.6 | 2.2 | 2.43 | 0.72 | 98.8 |
| 8 | Bedrock | 52.5 | 1.28 | 11.3 | 16.9 | 11.9 | 2.4 | 2.54 | 0.67 | 99.49 |
| 9 | Bedrock | 51.4 | 0.98 | 11.9 | 15.5 | 14 | 2.1 | 2.43 | 0.63 | 98.94 |
| 10 | Bedrock | 52.6 | 0.87 | 11.4 | 15.8 | 11.1 | 2.3 | 2.63 | 0.74 | 97.44 |

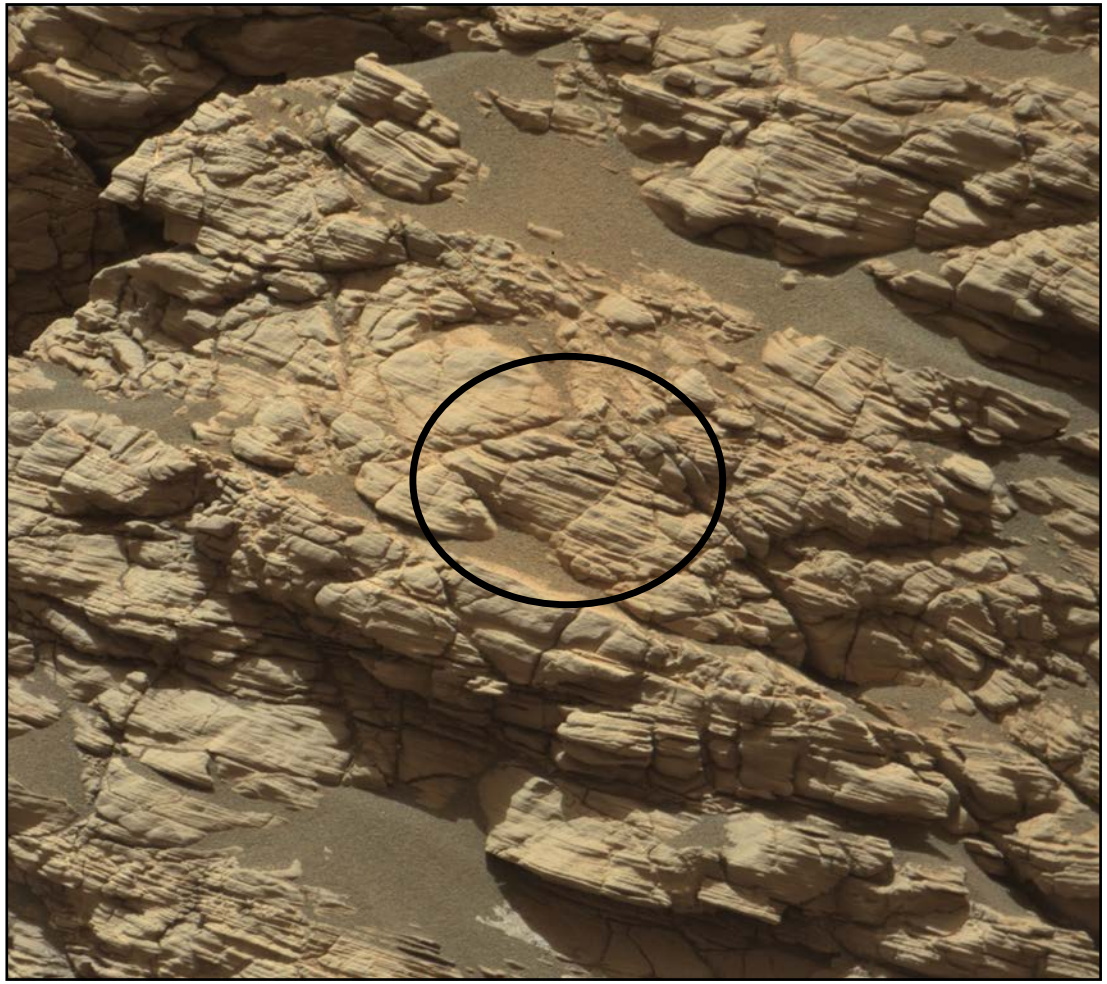
# Target: Hollandstoun

**Sol:** 2924
**Elev (m.):** -4119.37103541546
**CCAM Sequence ID:** CCAM02924

**Whole Target Classification:** Bedrock
**Lamination Strength:** Strongly Laminated
**Lamination Expression:** Primary Stratification
**Grain Visibility:** Below RMI Image Resolution
**Bedrock Appearance:** Dull
**Nodule Presence:** Absent
**Nodule Diameter:** Absent
**Nodule Resistance:** Absent
**Fracture Presence:** Occasional (<10% by Visual Inspection)

| # | Feature | SiO2 (wt%) | TiO2 (wt%) | Al2O3 (wt%) | FeOT (wt%) | MgO (wt%) | CaO (wt%) | Na2O (wt%) | K2O (wt%) | Sum of Oxides (wt%) |
|---|---|---|---|---|---|---|---|---|---|---|
| 1 | Bedrock | 54.3 | 1.14 | 13.6 | 17.3 | 9.9 | 3.4 | 2.22 | 0.71 | 102.57 |
| 2 | Bedrock | 55.6 | 0.88 | 12.1 | 17.3 | 9.7 | 1.5 | 2.77 | 1.89 | 101.74 |
| 3 | Bedrock | 55.1 | 0.91 | 12.2 | 17.2 | 9.8 | 1.5 | 2.7 | 1.7 | 101.11 |
| 4 | Bedrock | 55.4 | 0.94 | 13.1 | 17.5 | 9.3 | 1.7 | 2.88 | 1.95 | 102.77 |
| 5 | Bedrock | 54.7 | 0.96 | 12.8 | 17.6 | 10.6 | 1.8 | 2.66 | 1.82 | 102.94 |
| 6 | Bedrock | 52.1 | 1.45 | 10.2 | 17.9 | 11 | 1.4 | 2.72 | 1.12 | 97.89 |
| 7 | Bedrock | 53.9 | 0.96 | 12.8 | 17.2 | 9.9 | 2.3 | 2.84 | 1.62 | 101.52 |
| 8 | Bedrock | 55.3 | 1.18 | 12.8 | 17.8 | 8.5 | 1.9 | 2.99 | 1.83 | 102.3 |
| 9 | Bedrock | 55.7 | 1.05 | 12.7 | 16.9 | 9.1 | 2.1 | 2.89 | 1.69 | 102.13 |
| 10 | Bedrock | 55 | 1.07 | 12.6 | 17.2 | 9.4 | 2 | 2.83 | 1.74 | 101.84 |



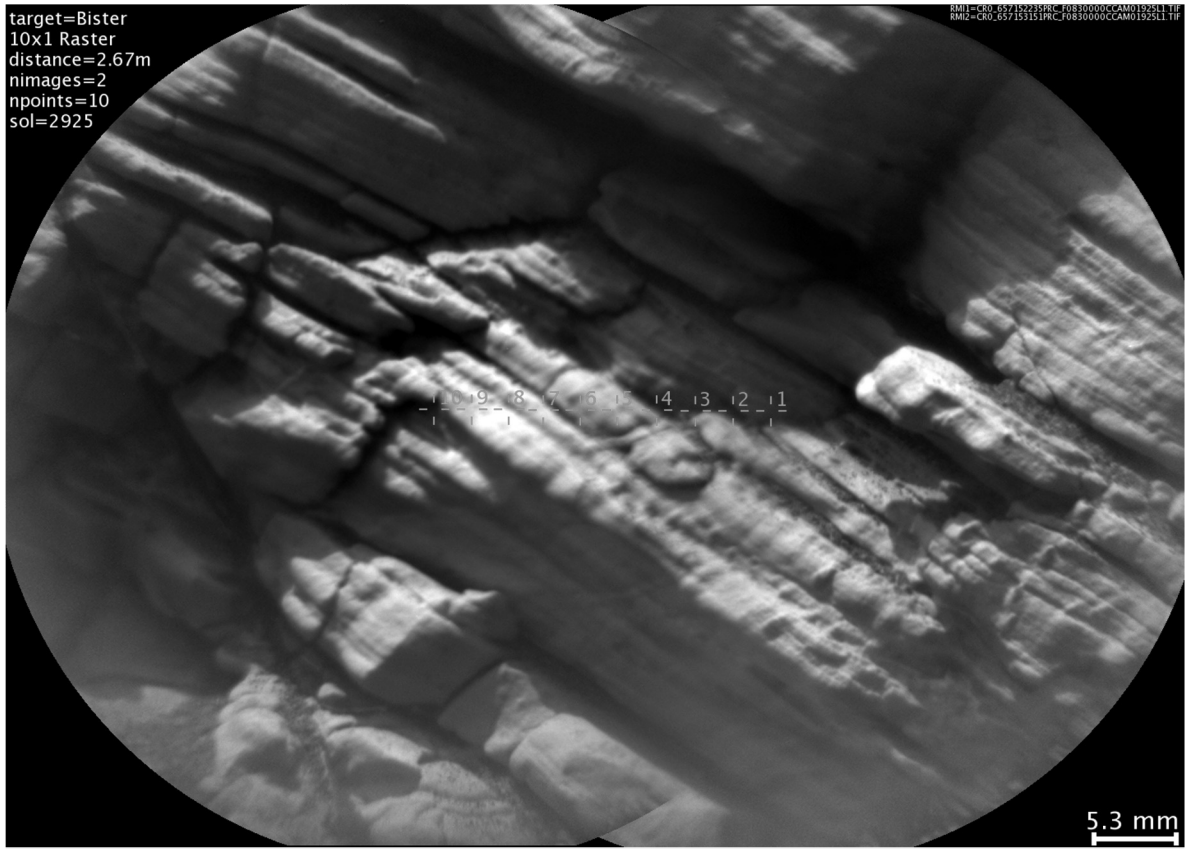



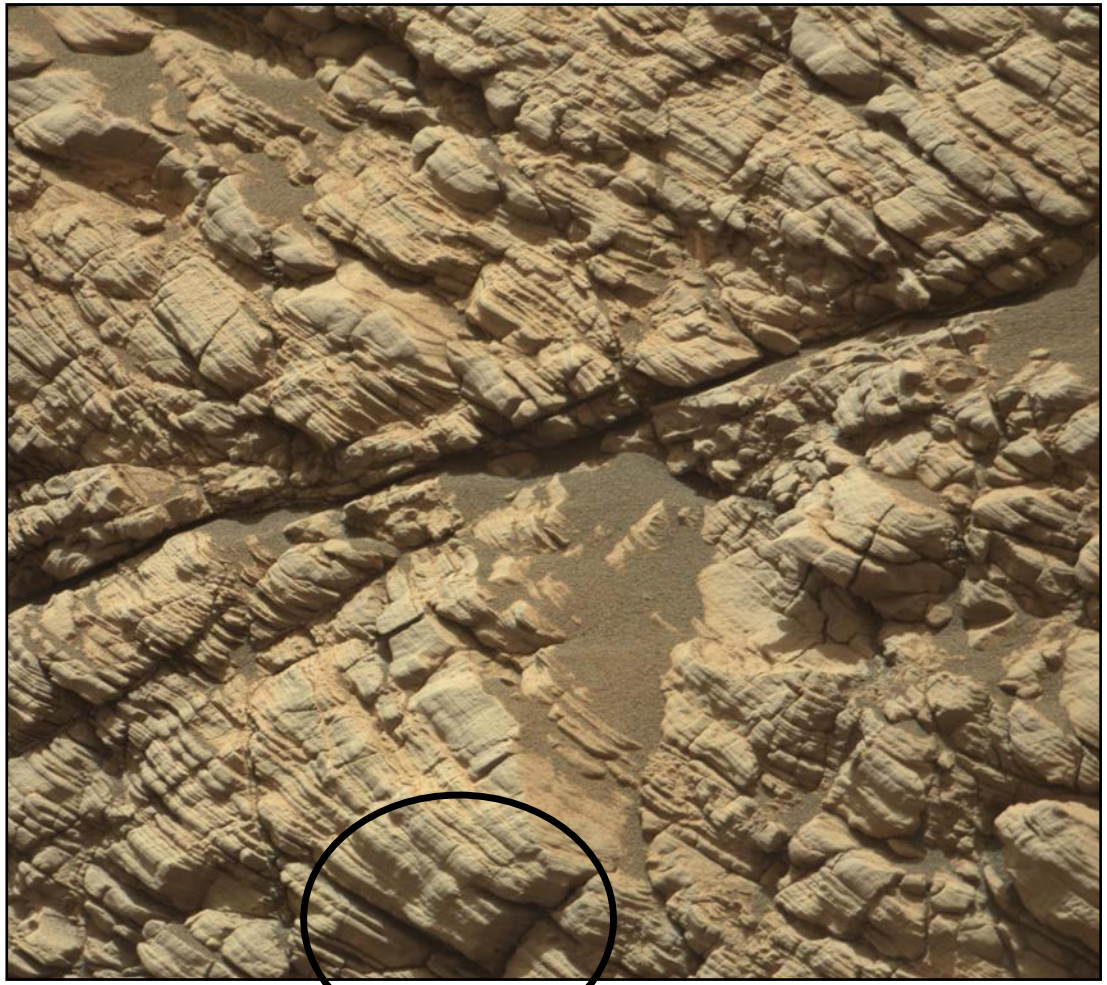
# Target: Bister

**Sol:** 2925
**Elev (m.):** -4118.84254162504
**CCAM Sequence ID:** CCAM01925

**Whole Target Classification:** Bedrock
**Lamination Strength:** Strongly Laminated
**Lamination Expression:** Primary Stratification
**Grain Visibility:** Below RMI Image Resolution
**Bedrock Appearance:** Dull
**Nodule Presence:** Absent
**Nodule Diameter:** Absent
**Nodule Resistance:** Absent
**Fracture Presence:** Occasional (<10% by Visual Inspection)

| # | Feature | SiO2 (wt%) | TiO2 (wt%) | Al2O3 (wt%) | FeOT (wt%) | MgO (wt%) | CaO (wt%) | Na2O (wt%) | K2O (wt%) | Sum of Oxides (wt%) |
|---|---|---|---|---|---|---|---|---|---|---|
| 1 | Bedrock | 56.3 | 0.94 | 12.1 | 17.7 | 8 | 1.5 | 3.03 | 2.16 | 101.73 |
| 2 | Bedrock | 54.9 | 0.9 | 11.6 | 18.2 | 8.9 | 1.5 | 2.42 | 1.63 | 100.05 |
| 3 | Bedrock | 56.7 | 0.87 | 11.6 | 17.7 | 8 | 1.2 | 2.77 | 2.24 | 101.08 |
| 4 | Bedrock | 56.3 | 1.05 | 13.5 | 17.3 | 8.5 | 3 | 2.51 | 1.13 | 103.29 |
| 5 | Bedrock | 56.8 | 1.04 | 12.9 | 15.4 | 8.6 | 1.6 | 2.77 | 1.86 | 100.97 |
| 6 | Bedrock | 56 | 0.93 | 12.1 | 17 | 9 | 1.4 | 2.72 | 1.9 | 101.05 |
| 7 | Bedrock | 55.6 | 0.81 | 13.7 | 16.7 | 8.7 | 1.9 | 3.08 | 1.96 | 102.45 |
| 8 | Bedrock | 48.7 | 1.07 | 11.7 | 16.2 | 7.7 | 7.9 | 2.23 | 0.98 | 96.48 |
| 9 | Bedrock | 57.1 | 0.97 | 12.8 | 17.2 | 8.7 | 1.4 | 3.01 | 1.99 | 103.17 |
| 10 | Bedrock | 53.6 | 1.02 | 10.4 | 16.8 | 9.4 | 2 | 2.14 | 0.99 | 96.35 |



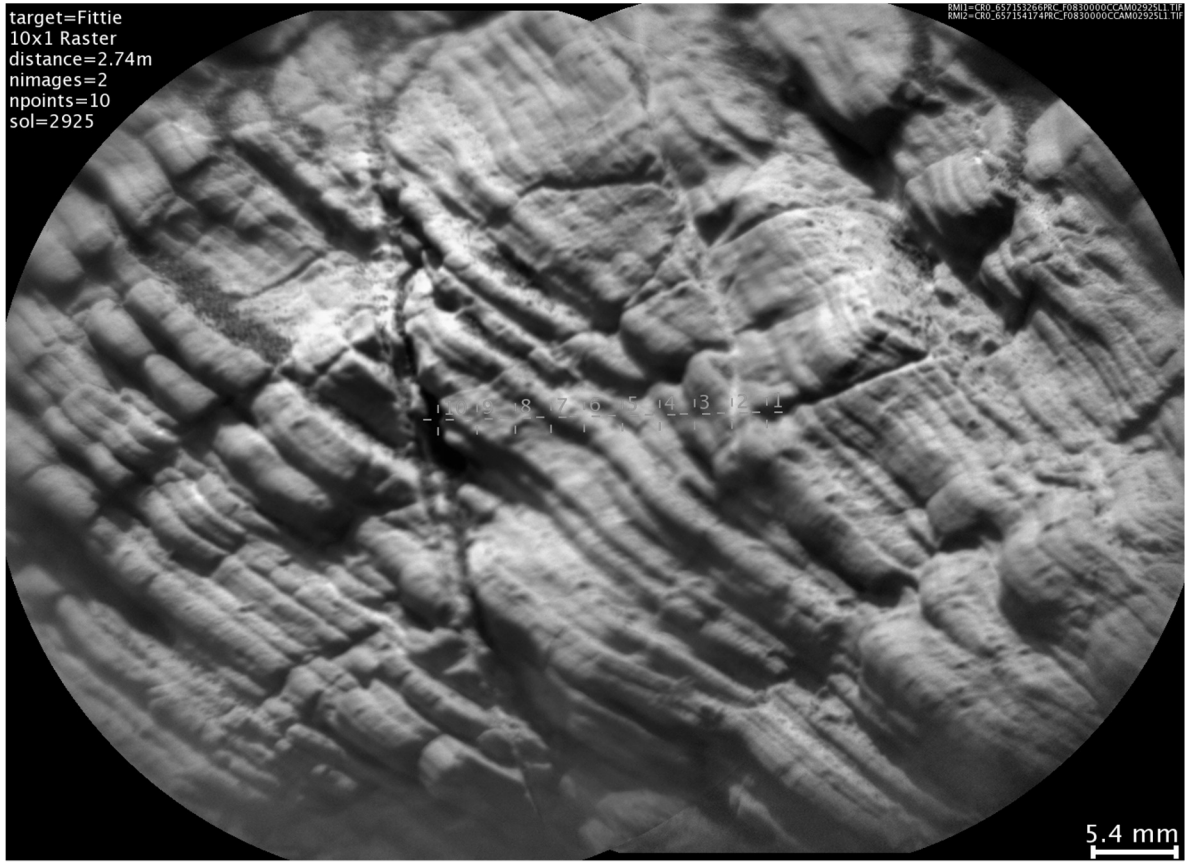



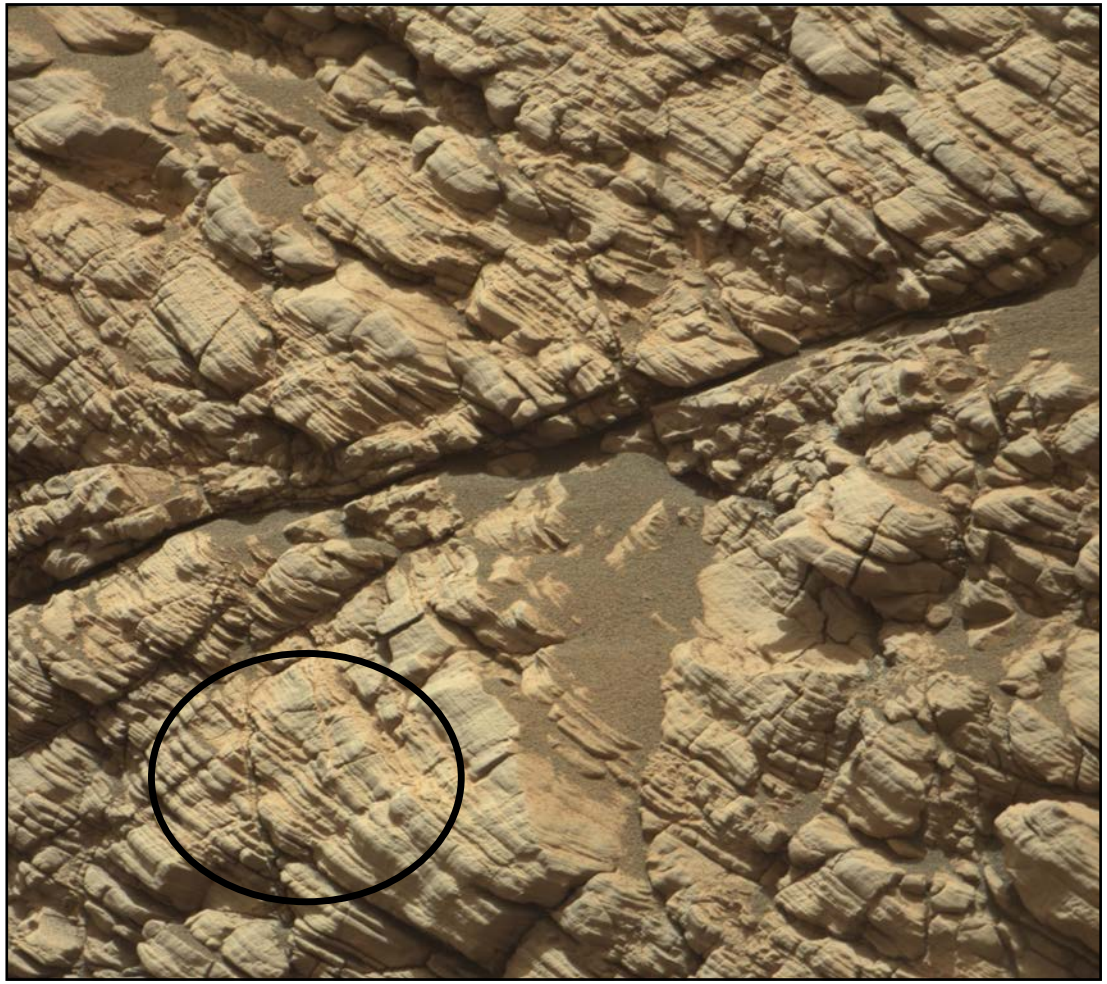
# Target: Fittie

**Sol:** 2925
**Elev (m.):** -4118.79368395781
**CCAM Sequence ID:** CCAM02925

**Whole Target Classification:** Bedrock
**Lamination Strength:** Moderately Laminated
**Lamination Expression:** Primary Stratification
**Grain Visibility:** Below RMI Image Resolution
**Bedrock Appearance:** Dull
**Nodule Presence:** Absent
**Nodule Diameter:** Absent
**Nodule Resistance:** Absent
**Fracture Presence:** Occasional (<10% by Visual Inspection)

| # | Feature | SiO2 (wt%) | TiO2 (wt%) | Al2O3 (wt%) | FeOT (wt%) | MgO (wt%) | CaO (wt%) | Na2O (wt%) | K2O (wt%) | Sum of Oxides (wt%) |
|---|---|---|---|---|---|---|---|---|---|---|
| 1 | Bedrock | 55.7 | 1.01 | 11.5 | 17.9 | 7.9 | 1.6 | 2.5 | 1.74 | 99.85 |
| 2 | Vein or Fracture | 56 | 0.99 | 11.8 | 16.4 | 9.5 | 1.7 | 2.46 | 1.5 | 100.35 |
| 3 | Bedrock | 54.8 | 1.05 | 13.2 | 17 | 9 | 1.9 | 2.6 | 1.57 | 101.12 |
| 4 | Bedrock | 51.3 | 1.03 | 11.2 | 16.4 | 7.9 | 6.8 | 2.08 | 0.86 | 97.57 |
| 5 | Bedrock | 55.7 | 0.96 | 12.6 | 18.3 | 7.4 | 1.6 | 2.67 | 1.93 | 101.16 |
| 6 | Bedrock | 56.4 | 0.98 | 12.7 | 17.5 | 8.1 | 2.6 | 2.32 | 1.12 | 101.72 |
| 7 | Bedrock | 55.7 | 1.05 | 12.7 | 18 | 8.2 | 1.7 | 2.68 | 1.94 | 101.97 |
| 8 | Bedrock | 54.9 | 1.23 | 13.2 | 17.1 | 8.1 | 2.4 | 2.76 | 1.74 | 101.43 |
| 9 | Bedrock | 55.9 | 1.1 | 13.4 | 18 | 7.9 | 1.7 | 2.72 | 1.75 | 102.47 |
| 10 | Vein or Fracture | 53.5 | 1.09 | 11 | 18.7 | 8.7 | 1.5 | 2.31 | 1.33 | 98.13 |



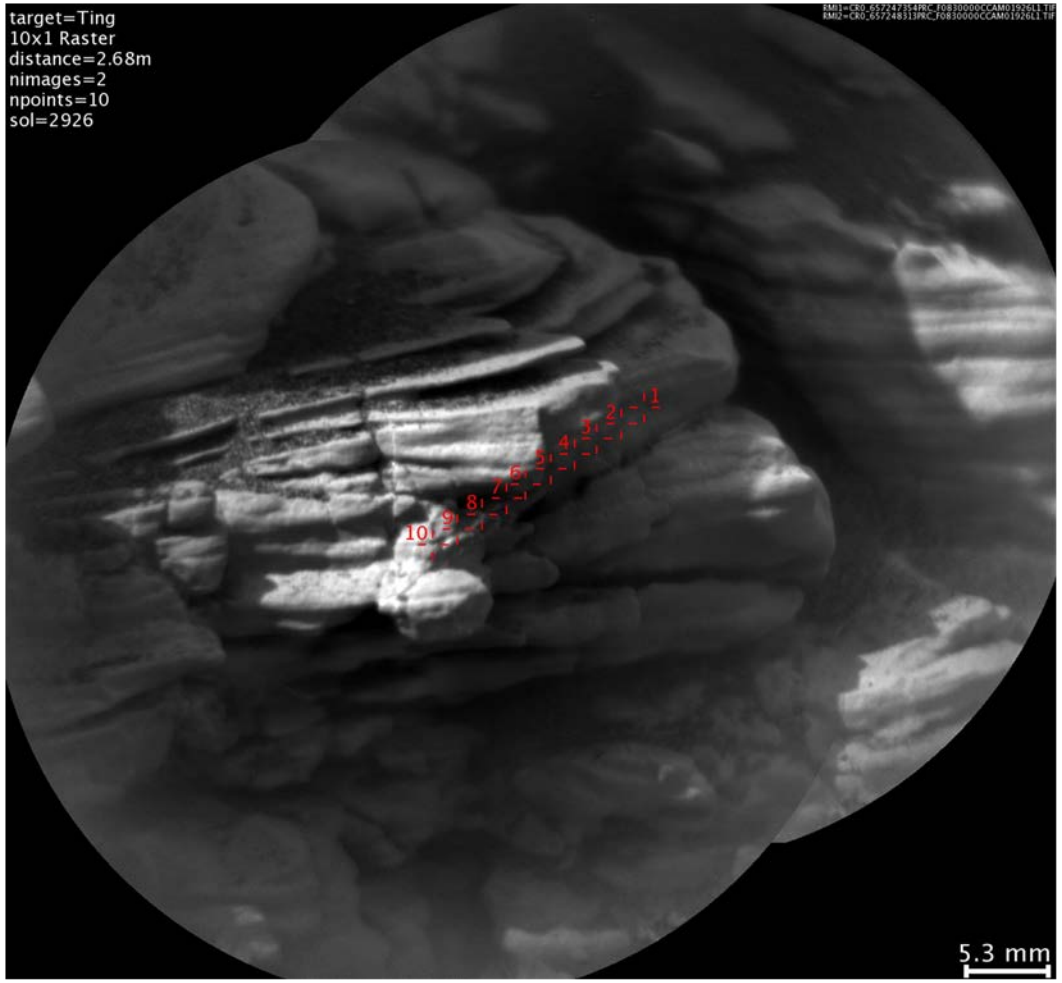



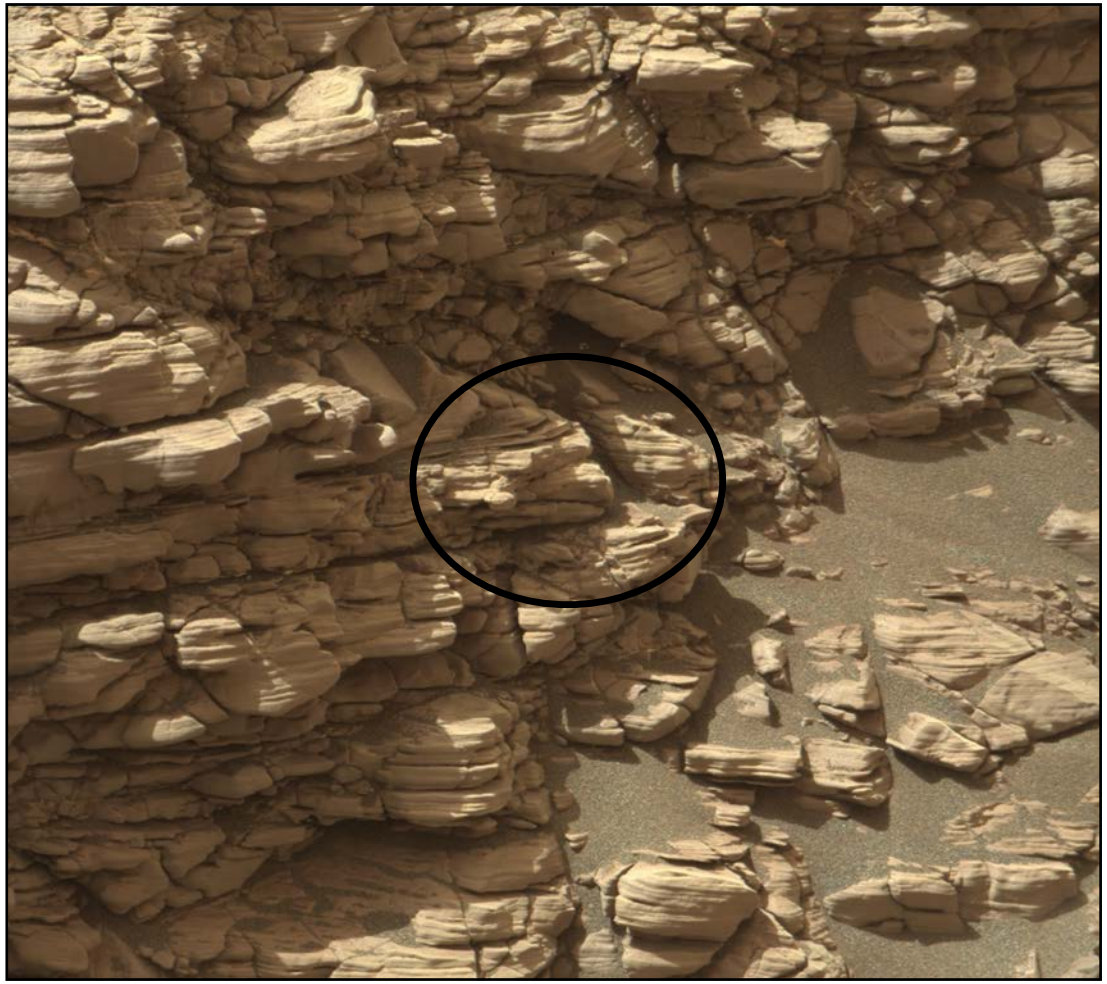
# Target: Ting

**Sol:** 2926
**Elev (m.):** -4119.90435602327
**CCAM Sequence ID:** CCAM01926

**Whole Target Classification:** Bedrock
**Lamination Strength:** Strongly Laminated
**Lamination Expression:** Primary Stratification
**Grain Visibility:** Below RMI Image Resolution
**Bedrock Appearance:** Dull
**Nodule Presence:** Absent
**Nodule Diameter:** Absent
**Nodule Resistance:** Absent
**Fracture Presence:** Occasional (<10% by Visual Inspection)

| # | Feature | SiO2 (wt%) | TiO2 (wt%) | Al2O3 (wt%) | FeOT (wt%) | MgO (wt%) | CaO (wt%) | Na2O (wt%) | K2O (wt%) | Sum of Oxides (wt%) |
|---|---|---|---|---|---|---|---|---|---|---|
| 1 | Bedrock | 52.8 | 0.88 | 11.3 | 16.3 | 9.6 | 1.4 | 2.49 | 1.45 | 96.22 |
| 2 | Bedrock | 54 | 0.82 | 11.2 | 16.4 | 8.8 | 1.8 | 2.4 | 1.53 | 96.95 |
| 3 | Bedrock | 54.1 | 1.11 | 9.7 | 16.9 | 9.1 | 1.6 | 2.41 | 1.7 | 96.62 |
| 4 | Bedrock | 54.3 | 0.94 | 11.1 | 18.2 | 8.9 | 1.9 | 2.29 | 1.58 | 99.21 |
| 5 | Bedrock | 52.9 | 1.13 | 9.8 | 18.5 | 9.4 | 1.4 | 2.15 | 1.54 | 96.82 |
| 6 | Bedrock | 53.4 | 1.02 | 9.7 | 18.5 | 9.1 | 1.5 | 2.13 | 1.62 | 96.97 |
| 7 | Bedrock | 51.9 | 0.87 | 10.1 | 17.5 | 10 | 2 | 2.09 | 0.97 | 95.43 |
| 8 | Vein or Fracture | 11 | 0.2 | 2.9 | 4.2 | 1.9 | 32.2 | 0.4 | 0.12 | 52.92 |
| 9 | Vein or Fracture | 38.1 | 0.64 | 7.6 | 12.4 | 3.6 | 18.3 | 1.35 | 0.94 | 82.93 |
| 10 | Vein or Fracture | 54.8 | 1.05 | 13.9 | 16.2 | 7.2 | 2.4 | 2.76 | 2.03 | 100.34 |



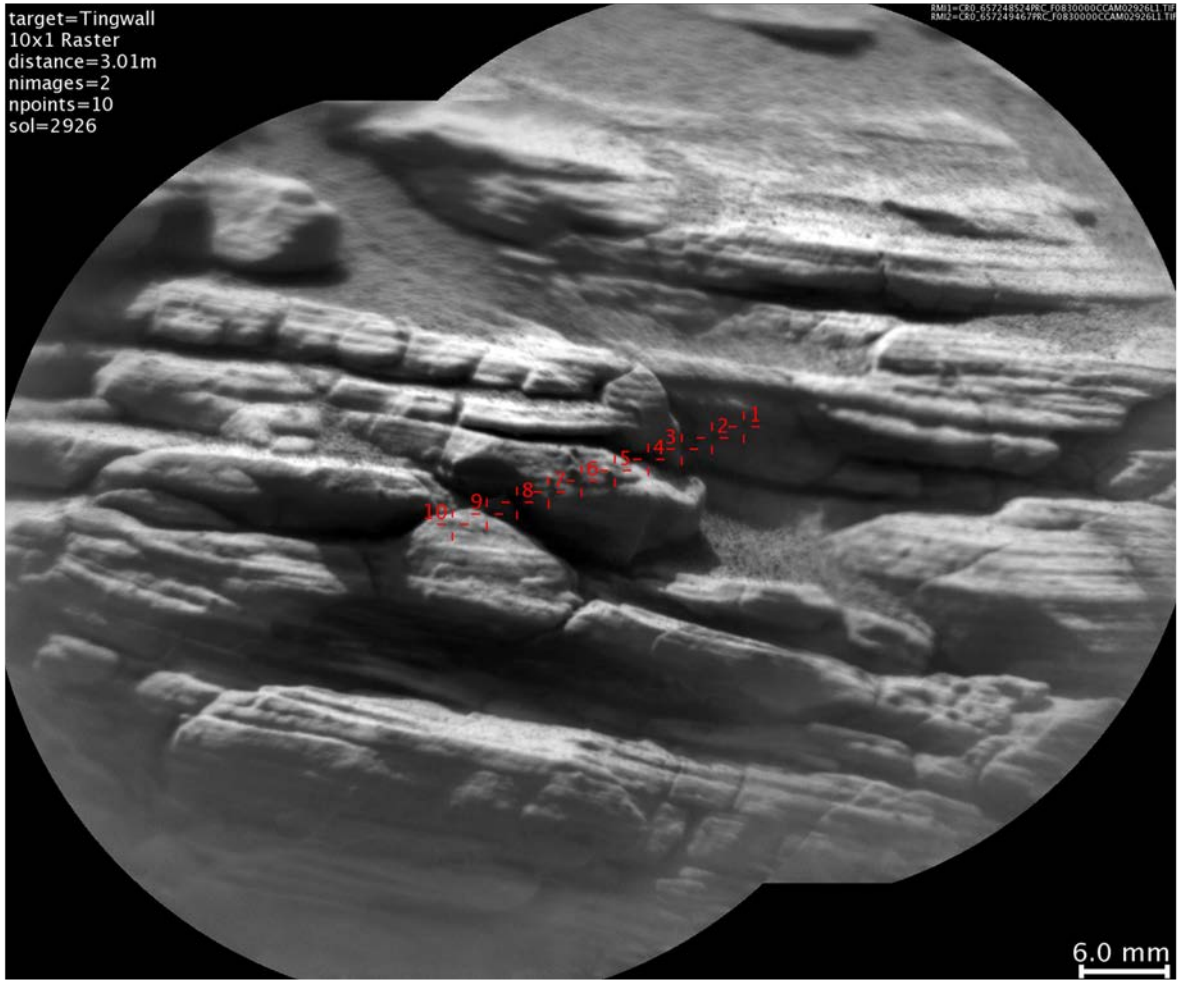



# Target: Tingwall

**Sol:** 2926
**Elev (m.):** -4118.61782048275
**CCAM Sequence ID:** CCAM02926

**Whole Target Classification:** Bedrock
**Lamination Strength:** Strongly Laminated
**Lamination Expression:** Primary Stratification
**Grain Visibility:** Below RMI Image Resolution
**Bedrock Appearance:** Dull
**Nodule Presence:** Absent
**Nodule Diameter:** Absent
**Nodule Resistance:** Absent
**Fracture Presence:** Occasional (<10% by Visual Inspection)

| # | Feature | SiO2 (wt%) | TiO2 (wt%) | Al2O3 (wt%) | FeOT (wt%) | MgO (wt%) | CaO (wt%) | Na2O (wt%) | K2O (wt%) | Sum of Oxides (wt%) |
|---|---|---|---|---|---|---|---|---|---|---|
| 1 | Bedrock | 54.6 | 0.9 | 12.1 | 19.1 | 7.5 | 1.6 | 2.68 | 2.24 | 100.72 |
| 2 | Bedrock | 55.8 | 0.98 | 11.4 | 19 | 7.4 | 1.4 | 2.52 | 2.06 | 100.56 |
| 3 | Bedrock | 56.8 | 0.8 | 12.1 | 17.5 | 7.1 | 1.1 | 2.87 | 2.27 | 100.54 |
| 4 | Sand | 52.2 | 1.14 | 9.3 | 18.2 | 10 | 2.3 | 1.55 | 0.55 | 95.24 |
| 5 | Bedrock | 57 | 0.93 | 14.4 | 19.2 | 7.3 | 1.3 | 3.14 | 2.27 | 105.54 |
| 6 | Bedrock | 56.4 | 0.97 | 13.3 | 19.3 | 7.8 | 1.2 | 3.06 | 2.58 | 104.61 |
| 7 | Bedrock | 56.3 | 0.98 | 13.3 | 20 | 6.8 | 1.1 | 3.25 | 2.74 | 104.47 |
| 8 | Bedrock | 56.3 | 1.01 | 14.2 | 18 | 8.4 | 1.7 | 3.11 | 2.49 | 105.21 |
| 9 | Bedrock | 58.2 | 0.92 | 13.3 | 19 | 7 | 1.3 | 3.36 | 3.05 | 106.13 |
| 10 | Bedrock | 55.1 | 0.87 | 12.4 | 18.2 | 7.4 | 1.5 | 2.53 | 1.89 | 99.89 |



# Target: aegis_post_2927a

**Sol:** 2926
**Elev (m.):** -4120.02425566654
**CCAM Sequence ID:** CCAM03926

**Whole Target Classification:** Unconsolidated (Sand/Soil/Pebbles)
**Lamination Strength:** Absent
**Lamination Expression:** Absent
**Grain Visibility:** Below RMI Image Resolution
**Bedrock Appearance:** Dull
**Nodule Presence:** Absent
**Nodule Diameter:** Absent
**Nodule Resistance:** Absent
**Fracture Presence:** Absent

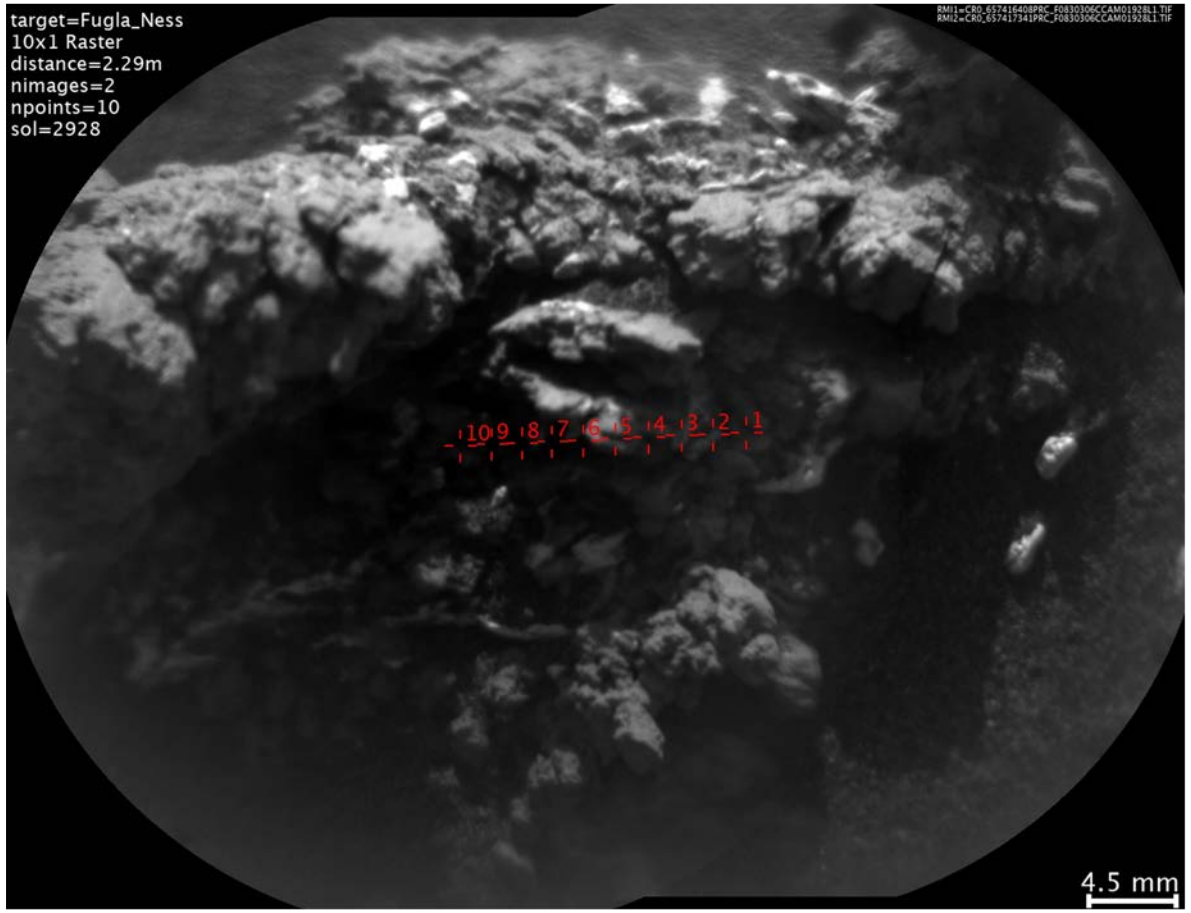
| # | Feature | SiO2 (wt%) | TiO2 (wt%) | Al2O3 (wt%) | FeOT (wt%) | MgO (wt%) | CaO (wt%) | Na2O (wt%) | K2O (wt%) | Sum of Oxides (wt%) |
|---|---|---|---|---|---|---|---|---|---|---|
| 1 | Sand | 41.4 | 0.86 | 8.6 | 19.3 | 7.6 | 7.5 | 1.81 | 0.26 | 87.33 |
| 2 | Sand | 41.1 | 0.91 | 8.4 | 19 | 7.7 | 8 | 1.78 | 0.25 | 87.14 |
| 3 | Sand | 42 | 0.9 | 8.9 | 19.2 | 7.9 | 7.3 | 1.94 | 0.33 | 88.47 |
| 4 | Bedrock | 41.6 | 0.92 | 8.7 | 19.5 | 7.5 | 7.5 | 1.82 | 0.28 | 87.82 |
| 5 | Bedrock | 57.3 | 0.93 | 10.2 | 17.2 | 5.6 | 1 | 2.32 | 1.29 | 95.84 |
| 6 | Bedrock | 56.6 | 0.92 | 10.4 | 17.1 | 6 | 1.1 | 2.49 | 1.35 | 95.96 |
| 7 | Bedrock | 55.9 | 0.94 | 10.6 | 17.3 | 6 | 1.2 | 2.59 | 1.55 | 96.08 |
| 8 | Sand | 48.4 | 1.13 | 11.2 | 19.4 | 6.7 | 6 | 2.55 | 0.83 | 96.21 |
| 9 | Sand | 42.3 | 0.89 | 9.1 | 19.9 | 7.8 | 7.2 | 1.89 | 0.33 | 89.41 |
| 10 | Sand | 41.2 | 0.85 | 8 | 18.6 | 8.3 | 7.3 | 1.58 | 0.18 | 86.01 |

# Target: Fugla_Ness

**Sol:** 2928
**Elev (m.):** -4119.99373453173
**CCAM Sequence ID:** CCAM01928

**Whole Target Classification:** Bedrock
**Lamination Strength:** Absent
**Lamination Expression:** Absent
**Grain Visibility:** Unclear
**Bedrock Appearance:** Dull
**Nodule Presence:** Pervasive (>50% by Visual Inspection)
**Nodule Diameter:** Medium (1 - 3 mm)
**Nodule Resistance:** Protruding
**Fracture Presence:** Common (~10-20% by Visual Inspection)

| # | Feature | SiO2 (wt%) | TiO2 (wt%) | Al2O3 (wt%) | FeOT (wt%) | MgO (wt%) | CaO (wt%) | Na2O (wt%) | K2O (wt%) | Sum of Oxides (wt%) |
|---|---|---|---|---|---|---|---|---|---|---|
| 1 | Bedrock | 56.1 | 0.82 | 10.4 | 17.3 | 6.4 | 1.1 | 2.57 | 1.69 | 96.38 |
| 2 | Vein or Fracture | 28.8 | 0.61 | 4.7 | 10.6 | 2.7 | 24.3 | 0.58 | 0.23 | 72.52 |
| 3 | Vein or Fracture | 8.5 | 0 | 1.8 | 0.9 | 1.4 | 32.3 | 0.12 | 0.05 | 45.07 |
| 4 | Bedrock | 55.9 | 0.82 | 12.3 | 19.1 | 6.8 | 1.2 | 2.58 | 1.53 | 100.23 |
| 5 | Bedrock | 56.1 | 0.77 | 11.2 | 18.5 | 6.1 | 1.1 | 2.78 | 1.97 | 98.52 |
| 6 | Vein or Fracture | 39.3 | 0.58 | 8.1 | 13.9 | 3.6 | 17.7 | 1.02 | 0.32 | 84.52 |
| 7 | Vein or Fracture | 48.5 | 0.81 | 9.3 | 18.7 | 5.4 | 7 | 1.62 | 0.72 | 92.05 |
| 8 | Vein or Fracture | 52.5 | 0.84 | 10.7 | 19.1 | 7.7 | 1.9 | 2.14 | 0.94 | 95.82 |
| 9 | Bedrock | 55.8 | 0.83 | 11.2 | 18.6 | 6.5 | 1.1 | 2.47 | 1.58 | 98.08 |
| 10 | Bedrock | 54.8 | 0.89 | 10.7 | 19.2 | 5.8 | 1.1 | 2.5 | 1.62 | 96.61 |



# Target: Stennes

**Sol:** 2928
**Elev (m.):** -4119.90985751769
**CCAM Sequence ID:** CCAM02928

**Whole Target Classification:** Bedrock
**Lamination Strength:** Absent
**Lamination Expression:** Absent
**Grain Visibility:** Unclear
**Bedrock Appearance:** Dull
**Nodule Presence:** Pervasive (>50% by Visual Inspection)
**Nodule Diameter:** Medium (1 - 3 mm)
**Nodule Resistance:** Protruding
**Fracture Presence:** Absent

| # | Feature | SiO2 (wt%) | TiO2 (wt%) | Al2O3 (wt%) | FeOT (wt%) | MgO (wt%) | CaO (wt%) | Na2O (wt%) | K2O (wt%) | Sum of Oxides (wt%) |
|---|---|---|---|---|---|---|---|---|---|---|
| 1 | Vein or Fracture | 51.1 | 0.89 | 10.6 | 18.8 | 5.1 | 6.1 | 2.06 | 0.99 | 95.64 |
| 2 | Vein or Fracture | 57.2 | 0.91 | 11.6 | 19.6 | 5.1 | 1.1 | 2.72 | 2.07 | 100.3 |
| 3 | Vein or Fracture | 39.2 | 0.67 | 7.9 | 13.9 | 3.3 | 16.9 | 1.05 | 0.39 | 83.31 |
| 4 | Vein or Fracture | 48.8 | 0.89 | 10.5 | 17.9 | 6.1 | 6.6 | 1.62 | 0.49 | 92.9 |
| 5 | Vein or Fracture | 52.8 | 1.04 | 10.5 | 18.5 | 7.1 | 2.2 | 2.52 | 1.21 | 95.87 |
| 6 | Bedrock | 54.9 | 1.01 | 10.5 | 18.8 | 6.2 | 1 | 2.68 | 1.72 | 96.81 |
| 7 | Bedrock | 56.1 | 0.94 | 11.2 | 19.4 | 5.7 | 1 | 2.61 | 1.89 | 98.84 |
| 8 | Bedrock | 55.3 | 0.92 | 11.2 | 19.7 | 6 | 1 | 2.63 | 1.95 | 98.7 |
| 9 | Bedrock | 55.2 | 0.87 | 12.4 | 19.2 | 6.9 | 1.5 | 2.53 | 1.24 | 99.84 |
| 10 | Bedrock | 56.2 | 0.84 | 9.5 | 17.3 | 6.4 | 1.2 | 2.64 | 1.98 | 96.06 |

# Target: Dunrossness

**Sol:** 2928
**Elev (m.):** -4119.93195193023
**CCAM Sequence ID:** CCAM03928

**Whole Target Classification:** Bedrock
**Lamination Strength:** Weakly Laminated
**Lamination Expression:** Laminae-Parallel Nodules
**Grain Visibility:** Unclear
**Bedrock Appearance:** Dull
**Nodule Presence:** Pervasive (>50% by Visual Inspection)
**Nodule Diameter:** Medium (1 - 3 mm)
**Nodule Resistance:** Protruding
**Fracture Presence:** Absent

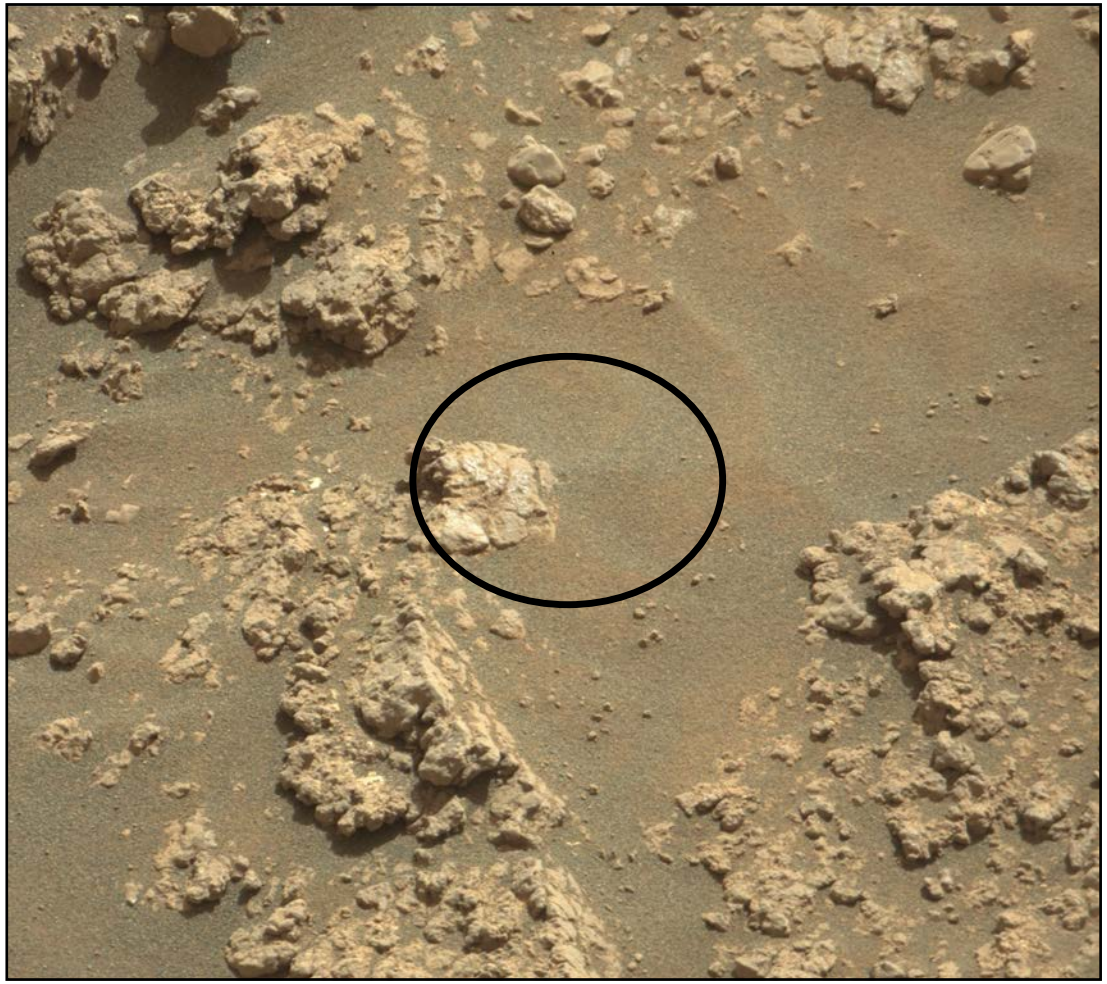
| # | Feature | SiO2 (wt%) | TiO2 (wt%) | Al2O3 (wt%) | FeOT (wt%) | MgO (wt%) | CaO (wt%) | Na2O (wt%) | K2O (wt%) | Sum of Oxides (wt%) |
|---|---|---|---|---|---|---|---|---|---|---|
| 1 | Vein or Fracture | 43.5 | 0.72 | 8.2 | 15.6 | 4.4 | 14.4 | 1.36 | 0.71 | 88.89 |
| 2 | Bedrock | 56.2 | 0.9 | 11.9 | 18.3 | 6.2 | 1.2 | 2.68 | 1.89 | 99.27 |
| 3 | Sand | 56.1 | 0.88 | 12.3 | 18.6 | 5.8 | 1.6 | 2.69 | 1.54 | 99.51 |
| 4 | Bedrock | 55.1 | 0.92 | 11.5 | 18.7 | 6.4 | 1.2 | 2.76 | 1.91 | 98.49 |
| 5 | Sand | 55.3 | 0.96 | 11.6 | 18.8 | 6.4 | 1.9 | 2.62 | 1.41 | 98.99 |
| 6 | Bedrock | 54.7 | 1.03 | 11.3 | 19.2 | 6.8 | 1.1 | 2.53 | 1.77 | 98.43 |
| 7 | Sand | 55.2 | 0.89 | 12.5 | 18.6 | 6.4 | 1.8 | 2.26 | 1.09 | 98.74 |
| 8 | Vein or Fracture | 47.2 | 0.76 | 10.1 | 16.2 | 4 | 12.9 | 1.62 | 0.64 | 93.42 |
| 9 | Sand | 54 | 0.93 | 10.3 | 18.8 | 7.2 | 1.8 | 2.18 | 1.16 | 96.37 |
| 10 | Sand | 54.1 | 0.95 | 10.8 | 19.4 | 6.1 | 1.9 | 2.39 | 1.11 | 96.75 |

# Target: Noness

**Sol:** 2928
**Elev (m.):** -4119.88566718029
**CCAM Sequence ID:** CCAM04928

**Whole Target Classification:** Bedrock
**Lamination Strength:** Absent
**Lamination Expression:** Absent
**Grain Visibility:** Below RMI Image Resolution
**Bedrock Appearance:** Shiny
**Nodule Presence:** Absent
**Nodule Diameter:** Absent
**Nodule Resistance:** Absent
**Fracture Presence:** Absent

| # | Feature | SiO2 (wt%) | TiO2 (wt%) | Al2O3 (wt%) | FeOT (wt%) | MgO (wt%) | CaO (wt%) | Na2O (wt%) | K2O (wt%) | Sum of Oxides (wt%) |
|---|---|---|---|---|---|---|---|---|---|---|
| 1 | Sand | 52.4 | 0.97 | 10.1 | 18.7 | 6.6 | 2.4 | 2.14 | 0.85 | 94.16 |
| 2 | Bedrock | 57 | 1.06 | 11.3 | 18.1 | 5.8 | 1.2 | 2.6 | 1.59 | 98.65 |
| 3 | Bedrock | 56.4 | 0.88 | 10.6 | 17.4 | 6.4 | 1.4 | 2.6 | 1.53 | 97.21 |
| 4 | Bedrock | 55.9 | 0.91 | 11.4 | 19 | 6.2 | 1.3 | 2.6 | 1.5 | 98.81 |
| 5 | Bedrock | 56.2 | 1.04 | 13.6 | 17.9 | 6.3 | 1.5 | 2.86 | 1.45 | 100.85 |
| 6 | Bedrock | 55.1 | 0.94 | 9.7 | 17.1 | 7.5 | 1.1 | 2.75 | 1.86 | 96.05 |
| 7 | Bedrock | 56.8 | 1.02 | 10.6 | 18.8 | 6.7 | 0.9 | 2.75 | 1.88 | 99.45 |
| 8 | Vein or Fracture | 58.4 | 0.93 | 12.7 | 17 | 7.1 | 1.4 | 2.75 | 2.12 | 102.4 |
| 9 | Bedrock | 54.8 | 0.84 | 10.5 | 18.1 | 8.4 | 1.2 | 2.72 | 1.63 | 98.19 |
| 10 | Bedrock | 57.4 | 1.05 | 11.7 | 19.1 | 5.4 | 1.2 | 2.71 | 1.74 | 100.3 |

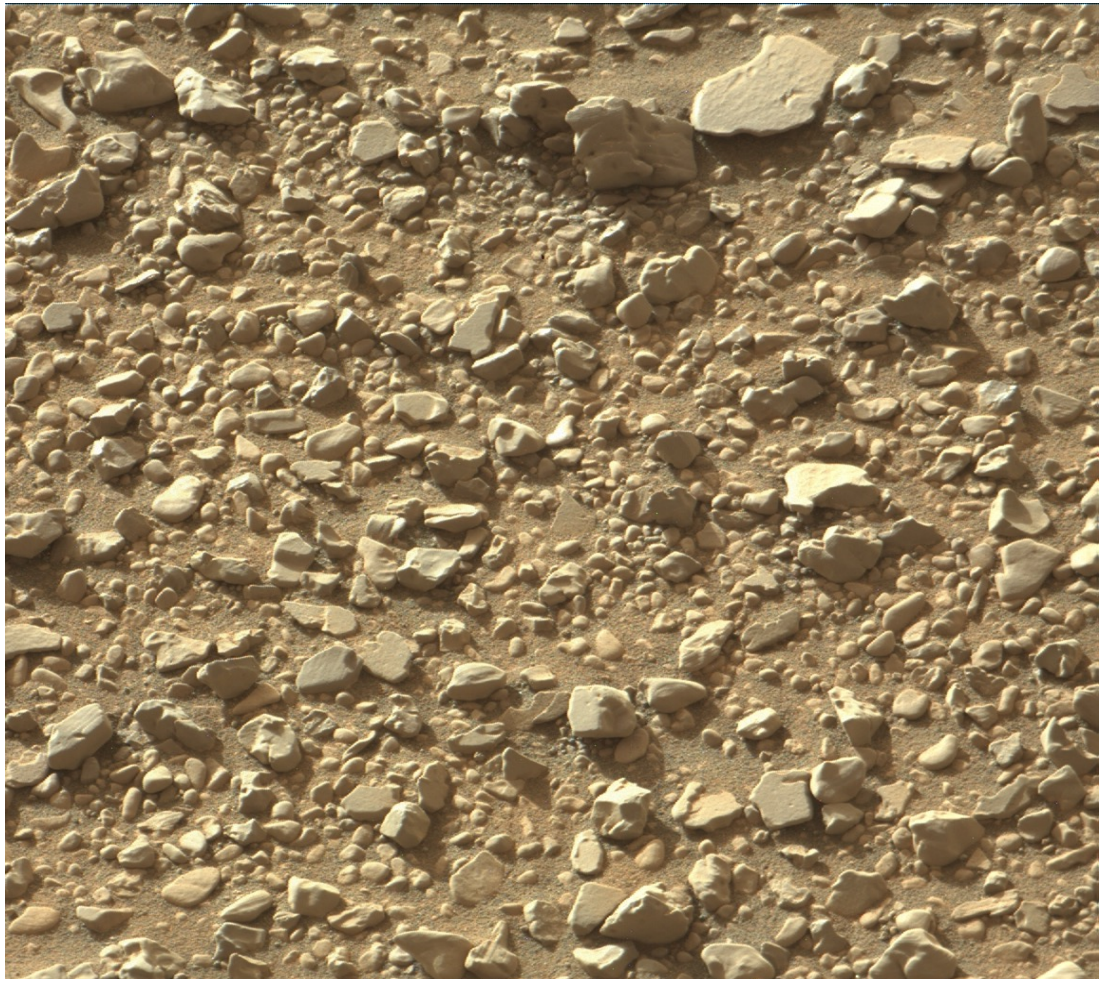


# Target: aegis_post_2930a

**Sol:** 2928
**Elev (m.):** -4117.57424079038
**CCAM Sequence ID:** CCAM05928

**Whole Target Classification:** Unconsolidated (Sand/Soil/Pebbles)
**Lamination Strength:** Absent
**Lamination Expression:** Absent
**Grain Visibility:** Below RMI Image Resolution
**Bedrock Appearance:** Dull
**Nodule Presence:** Absent
**Nodule Diameter:** Absent
**Nodule Resistance:** Absent
**Fracture Presence:** Absent

| # | Feature | SiO2 (wt%) | TiO2 (wt%) | Al2O3 (wt%) | FeOT (wt%) | MgO (wt%) | CaO (wt%) | Na2O (wt%) | K2O (wt%) | Sum of Oxides (wt%) |
|---|---|---|---|---|---|---|---|---|---|---|
| 1 | Bedrock | 56 | 1.23 | 12.4 | 19.2 | 5.9 | 1.4 | 2.93 | 1.85 | 100.91 |
| 2 | Bedrock | 56.9 | 0.98 | 12.9 | 19 | 5.4 | 1.1 | 3.07 | 2.06 | 101.41 |
| 3 | Sand | 51.1 | 0.95 | 10 | 19.5 | 6.7 | 3.4 | 2.14 | 0.79 | 94.58 |
| 4 | Bedrock | 56.3 | 1 | 12.3 | 18.6 | 6.6 | 1.4 | 2.83 | 1.86 | 100.89 |
| 5 | Bedrock | 57.4 | 1.08 | 13.3 | 19.1 | 5.4 | 1.3 | 3.1 | 2.16 | 102.84 |
| 6 | Bedrock | 57.1 | 0.91 | 12.9 | 18.7 | 5.3 | 1 | 3.12 | 1.98 | 101.01 |
| 7 | Bedrock | 57.2 | 1.03 | 12.6 | 19.5 | 5.2 | 0.8 | 3.08 | 2.09 | 101.5 |
| 8 | Bedrock | 55.8 | 1.14 | 12.1 | 19.3 | 5.8 | 1.3 | 2.81 | 1.64 | 99.89 |
| 9 | Bedrock | 56.9 | 0.89 | 11 | 18.4 | 6.8 | 0.9 | 2.49 | 2.1 | 99.48 |

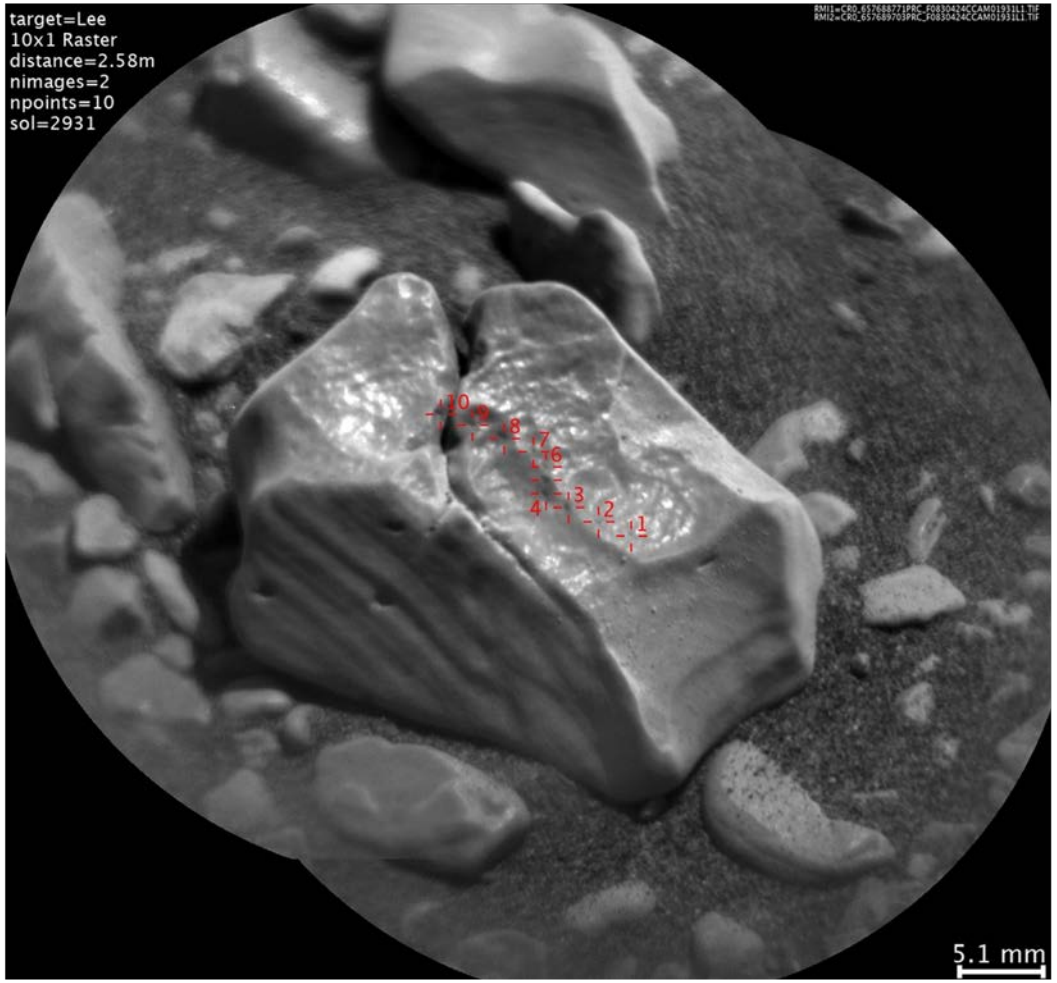


# Target: Lee

**Sol:** 2931
**Elev (m.):** -4117.89279762155
**CCAM Sequence ID:** CCAM01931

**Whole Target Classification:** Unconsolidated (Sand/Soil/Pebbles)
**Lamination Strength:** Absent
**Lamination Expression:** Absent
**Grain Visibility:** Below RMI Image Resolution
**Bedrock Appearance:** Shiny
**Nodule Presence:** Absent
**Nodule Diameter:** Absent
**Nodule Resistance:** Absent
**Fracture Presence:** Absent

| # | Feature | SiO2 (wt%) | TiO2 (wt%) | Al2O3 (wt%) | FeOT (wt%) | MgO (wt%) | CaO (wt%) | Na2O (wt%) | K2O (wt%) | Sum of Oxides (wt%) |
|---|---|---|---|---|---|---|---|---|---|---|
| 1 | Bedrock | 55.3 | 1.13 | 10.3 | 17.4 | 6.9 | 1.1 | 2.7 | 1.47 | 96.3 |
| 2 | Bedrock | 55.2 | 0.98 | 11.1 | 17.7 | 6.8 | 1 | 2.8 | 1.58 | 97.16 |
| 3 | Bedrock | 55.1 | 1.03 | 11.3 | 18.6 | 6.3 | 1.1 | 2.82 | 1.66 | 97.91 |
| 4 | Bedrock | 54.9 | 0.92 | 12 | 19 | 6.4 | 1.1 | 2.93 | 1.74 | 98.99 |
| 5 | Bedrock | 55.1 | 0.91 | 11.5 | 19.4 | 6.6 | 1 | 2.86 | 1.81 | 99.18 |
| 6 | Bedrock | 55.2 | 0.93 | 11.7 | 18 | 6.5 | 1.2 | 2.9 | 1.67 | 98.1 |
| 7 | Bedrock | 54.7 | 0.95 | 11.5 | 18 | 6.8 | 1.3 | 2.94 | 1.83 | 98.02 |
| 8 | Bedrock | 55 | 0.94 | 11.2 | 18.9 | 6.6 | 1.1 | 2.84 | 1.74 | 98.32 |
| 9 | Bedrock | 54.9 | 0.89 | 11.9 | 18.7 | 6.4 | 1.2 | 2.67 | 1.67 | 98.33 |
| 10 | Bedrock | 55.3 | 0.94 | 11 | 18.7 | 6.7 | 1 | 2.18 | 1.19 | 97.01 |



# Target: aegis_post_2932a

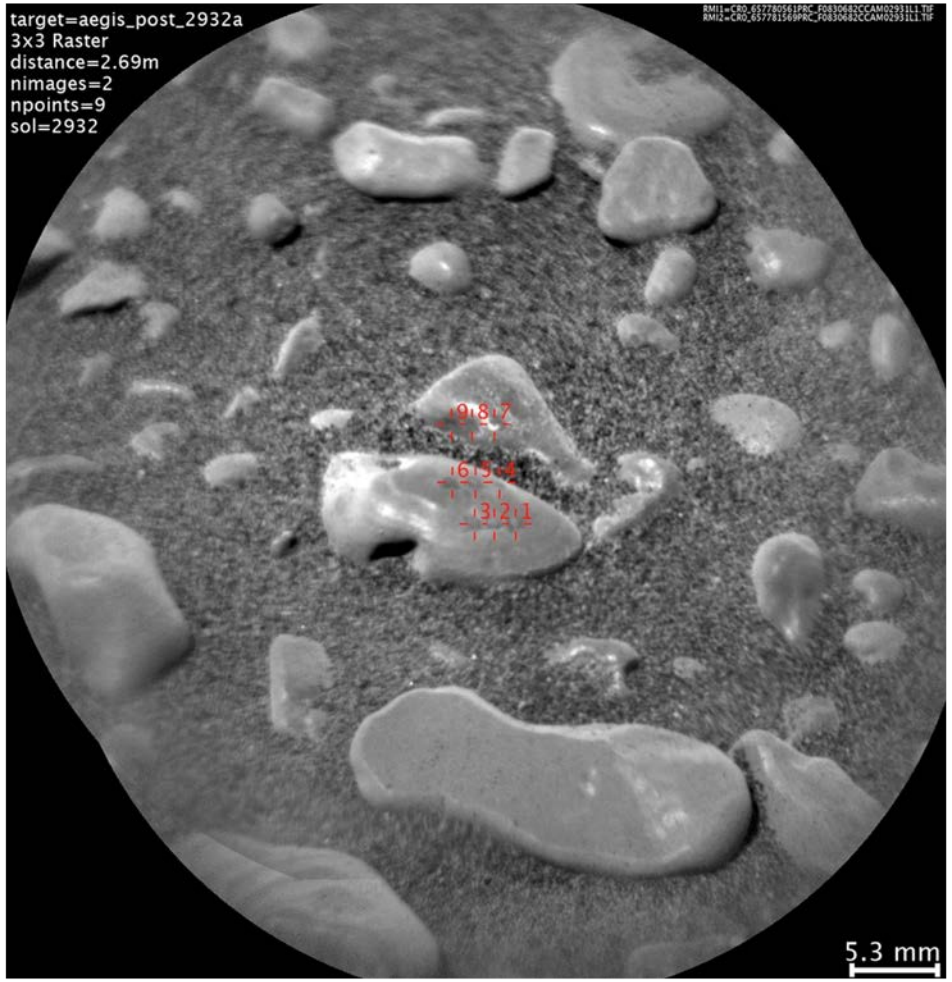
**Sol:** 2931

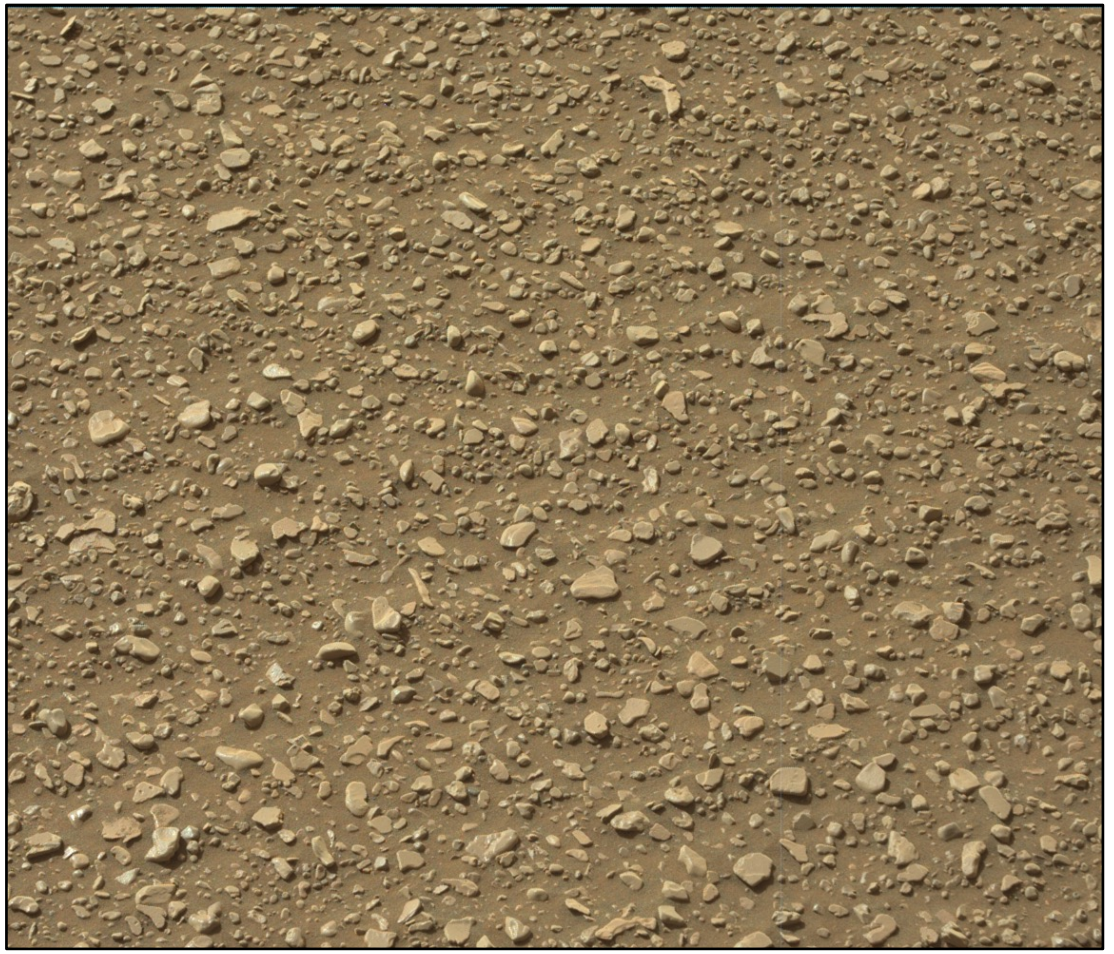
**Elev (m.):**

**CCAM Sequence ID:** CCAM02931

**Whole Target Classification:** Unconsolidated (Sand/Soil/Pebbles)
**Lamination Strength:** Absent
**Lamination Expression:** Absent
**Grain Visibility:** Below RMI Image Resolution
**Bedrock Appearance:** Dull
**Nodule Presence:** Absent
**Nodule Diameter:** Absent
**Nodule Resistance:** Absent
**Fracture Presence:** Absent

| # | Feature | SiO2 (wt%) | TiO2 (wt%) | Al2O3 (wt%) | FeOT (wt%) | MgO (wt%) | CaO (wt%) | Na2O (wt%) | K2O (wt%) | Sum of Oxides (wt%) |
|---|---|---|---|---|---|---|---|---|---|---|
| 1 | Bedrock | 55.9 | 0.98 | 11.3 | 18.6 | 5.4 | 1 | 2.74 | 1.7 | 97.62 |
| 2 | Bedrock | 56 | 1.03 | 11.5 | 18.1 | 5.7 | 1.1 | 2.76 | 1.61 | 97.8 |
| 3 | Bedrock | 56.1 | 0.93 | 11.9 | 18.4 | 5.4 | 1 | 2.87 | 1.82 | 98.42 |
| 4 | Bedrock | 57.3 | 1.06 | 11.2 | 18.2 | 5.3 | 1.2 | 2.78 | 1.5 | 98.54 |
| 5 | Sand | 57.4 | 1.01 | 10.1 | 17.3 | 5.7 | 1.1 | 2.75 | 1.69 | 97.05 |
| 6 | Bedrock | 58 | 0.92 | 10.5 | 17.9 | 5.3 | 1.1 | 2.66 | 1.59 | 97.97 |
| 7 | Bedrock | 56.2 | 0.97 | 11.6 | 19.8 | 5.5 | 1 | 3.06 | 2.04 | 100.17 |
| 8 | Bedrock | 56.8 | 0.98 | 11.5 | 20.2 | 5.6 | 0.9 | 2.88 | 1.88 | 100.74 |
| 9 | Bedrock | 56.2 | 0.99 | 11.3 | 20.2 | 5.4 | 1.2 | 2.9 | 1.86 | 100.05 |



**Target:** Windy_Standard **Sol:** 2933 **Elev (m.):**

**CCAM Sequence ID:** CCAM01933

**Whole Target Classification:** Bedrock
**Lamination Strength:** Moderately Laminated
**Lamination Expression:** Primary Stratification
**Grain Visibility:** Below RMI Image Resolution
**Bedrock Appearance:** Shiny
**Nodule Presence:** Absent
**Nodule Diameter:** Absent
**Nodule Resistance:** Absent
**Fracture Presence:** Absent

| # | Feature | SiO2 (wt%) | TiO2 (wt%) | Al2O3 (wt%) | FeOT (wt%) | MgO (wt%) | CaO (wt%) | Na2O (wt%) | K2O (wt%) | Sum of Oxides (wt%) |
|---|---|---|---|---|---|---|---|---|---|---|
| 1 | Bedrock | 54.5 | 1.16 | 11.3 | 18.3 | 6.8 | 1 | 2.67 | 1.66 | 97.39 |
| 2 | Bedrock | 54.7 | 1.06 | 11.1 | 18.2 | 6.6 | 1 | 2.56 | 1.53 | 96.75 |
| 3 | Bedrock | 55.1 | 0.98 | 11.2 | 17.8 | 6.2 | 1.1 | 2.6 | 1.52 | 96.5 |
| 4 | Bedrock | 55.6 | 0.97 | 11.7 | 18 | 5.9 | 1.2 | 2.72 | 1.61 | 97.7 |
| 5 | Bedrock | 55.9 | 0.96 | 11.8 | 18.5 | 6.1 | 1 | 2.71 | 1.74 | 98.71 |
| 6 | Bedrock | 55.5 | 0.95 | 11.6 | 18.4 | 6.2 | 1.1 | 2.73 | 1.78 | 98.26 |
| 7 | Bedrock | 56.9 | 0.92 | 11.1 | 18.6 | 5.8 | 1.1 | 2.81 | 1.98 | 99.21 |
| 8 | Bedrock | 57.5 | 0.92 | 10.8 | 18.7 | 5.5 | 1.2 | 2.72 | 1.81 | 99.15 |
| 9 | Bedrock | 55.4 | 0.98 | 11.6 | 18.7 | 6.2 | 1.1 | 2.65 | 1.62 | 98.25 |
| 10 | Bedrock | 54.6 | 1.01 | 12.5 | 18.9 | 6.6 | 1.3 | 2.64 | 1.56 | 99.11 |

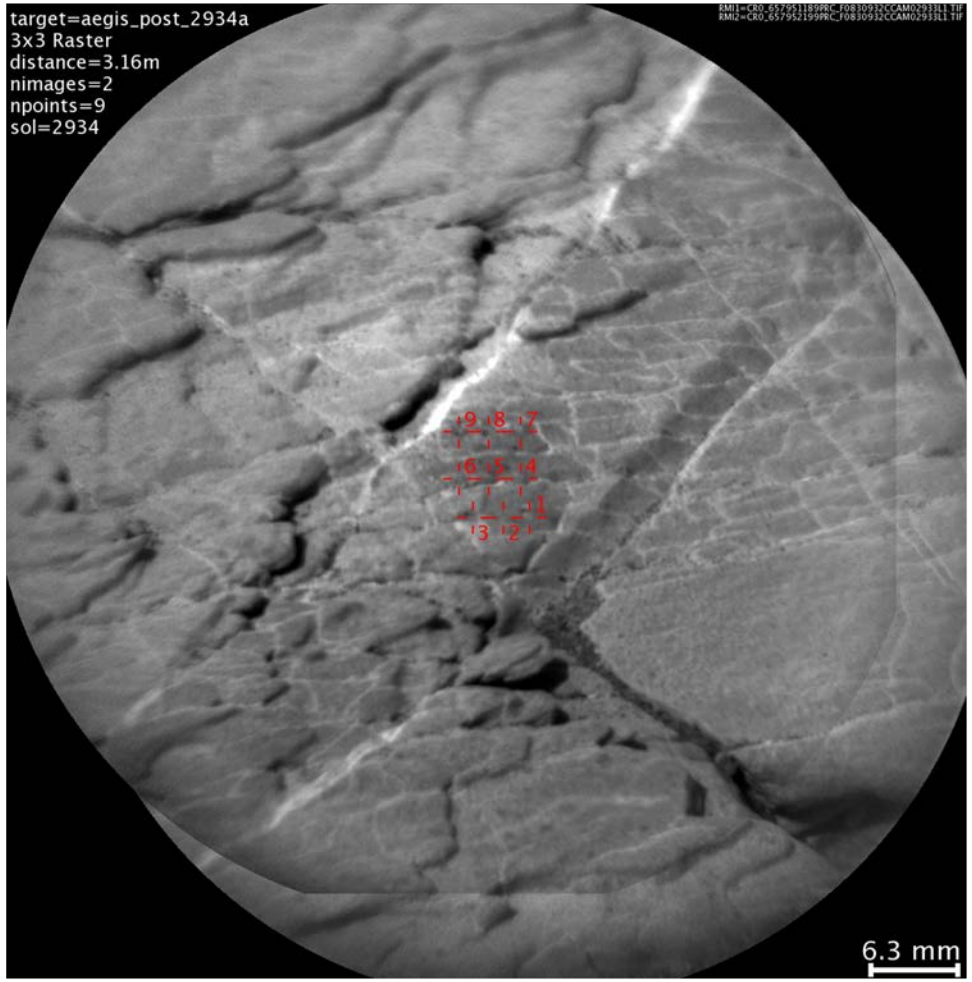
# Target: aegis_post_2934a

**Sol:** 2933 **Elev (m.):**

**CCAM Sequence ID:** CCAM02933

**Whole Target Classification:** Bedrock
**Lamination Strength:** Moderately Laminated
**Lamination Expression:** Primary Stratification
**Grain Visibility:** Below RMI Image Resolution
**Bedrock Appearance:** Dull
**Nodule Presence:** Absent
**Nodule Diameter:** Absent
**Nodule Resistance:** Absent
**Fracture Presence:** Common (~10-20% by Visual Inspection)

| # | Feature | SiO2 (wt%) | TiO2 (wt%) | Al2O3 (wt%) | FeOT (wt%) | MgO (wt%) | CaO (wt%) | Na2O (wt%) | K2O (wt%) | Sum of Oxides (wt%) |
|---|---|---|---|---|---|---|---|---|---|---|
| 1 | Bedrock | 55.4 | 0.99 | 12.2 | 17 | 9.3 | 1.7 | 2.78 | 1.35 | 100.72 |
| 2 | Vein or Fracture | 54.8 | 1.05 | 12.1 | 16.9 | 9.7 | 2.2 | 2.57 | 1.14 | 100.46 |
| 3 | Vein or Fracture | 53.5 | 0.98 | 12.3 | 16.7 | 10.6 | 2.6 | 2.61 | 1.1 | 100.39 |
| 4 | Bedrock | 54.4 | 0.84 | 11.8 | 17.7 | 10.1 | 1.2 | 2.49 | 1.48 | 100.01 |
| 5 | Bedrock | 55.5 | 0.94 | 12.1 | 17.8 | 9.5 | 1.4 | 2.58 | 1.53 | 101.35 |
| 6 | Bedrock | 55 | 1.15 | 12 | 17 | 9.3 | 1.8 | 2.79 | 1.4 | 100.44 |
| 7 | Bedrock | 55.4 | 0.99 | 13 | 17.4 | 9.7 | 1.6 | 2.83 | 1.55 | 102.47 |
| 8 | Vein or Fracture | 51.9 | 1.32 | 11.3 | 17.8 | 12.2 | 1.6 | 2.73 | 0.99 | 99.84 |
| 9 | Vein or Fracture | 53.9 | 1.09 | 10.7 | 17.3 | 11.9 | 2.1 | 2.28 | 0.92 | 100.19 |



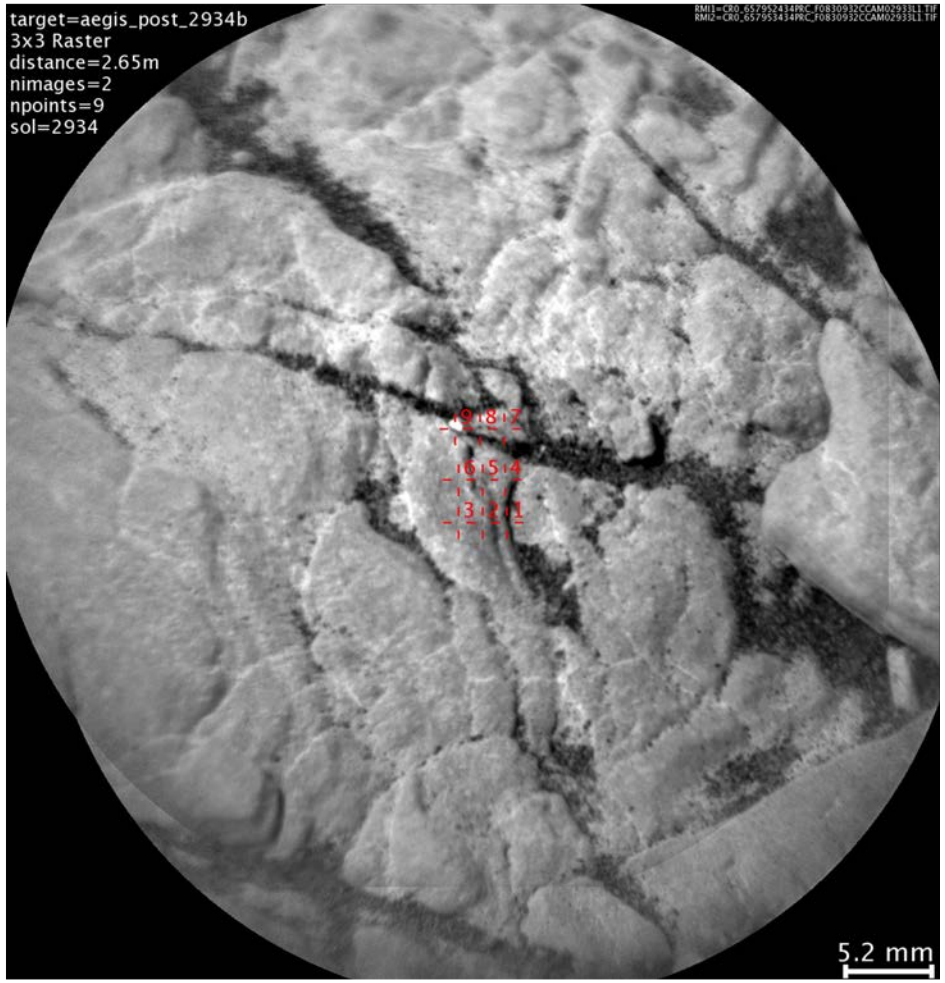
# Target: aegis_post_2934b

**Sol:** 2933 **Elev (m.):**

**CCAM Sequence ID:** CCAM02933

**Whole Target Classification:** Bedrock
**Lamination Strength:** Moderately Laminated
**Lamination Expression:** Primary Stratification
**Grain Visibility:** Below RMI Image Resolution
**Bedrock Appearance:** Dull
**Nodule Presence:** Absent
**Nodule Diameter:** Absent
**Nodule Resistance:** Absent
**Fracture Presence:** Occasional (<10% by Visual Inspection)

| # | Feature | SiO2 (wt%) | TiO2 (wt%) | Al2O3 (wt%) | FeOT (wt%) | MgO (wt%) | CaO (wt%) | Na2O (wt%) | K2O (wt%) | Sum of Oxides (wt%) |
|---|---|---|---|---|---|---|---|---|---|---|
| 1 | Bedrock | 54.7 | 1.26 | 11.6 | 17.2 | 8 | 2.3 | 2.5 | 1.21 | 98.77 |
| 2 | Bedrock | 52.9 | 0.91 | 11.3 | 18.6 | 7.9 | 1.8 | 2.48 | 1.26 | 97.15 |
| 3 | Bedrock | 53.8 | 1 | 11.1 | 18.3 | 7.9 | 2.2 | 2.57 | 1.19 | 98.06 |
| 4 | Bedrock | 54.7 | 0.92 | 11.7 | 17.8 | 7.9 | 2 | 2.71 | 1.26 | 98.99 |
| 5 | Bedrock | 52.9 | 0.9 | 10.8 | 18.6 | 8 | 1.6 | 2.58 | 1.38 | 96.76 |
| 6 | Bedrock | 53.8 | 0.92 | 11.9 | 18.1 | 7.8 | 2.4 | 2.53 | 1.05 | 98.5 |
| 7 | Bedrock | 55.3 | 0.89 | 12.1 | 19.7 | 6.3 | 1.6 | 2.81 | 1.7 | 100.4 |
| 8 | Vein or Fracture | 50.6 | 0.85 | 12.4 | 21.7 | 6.9 | 1.9 | 2.58 | 1.15 | 98.08 |
| 9 | Vein or Fracture | 47.7 | 0.81 | 11.5 | 15.1 | 4.8 | 12.2 | 1.86 | 0.6 | 94.57 |

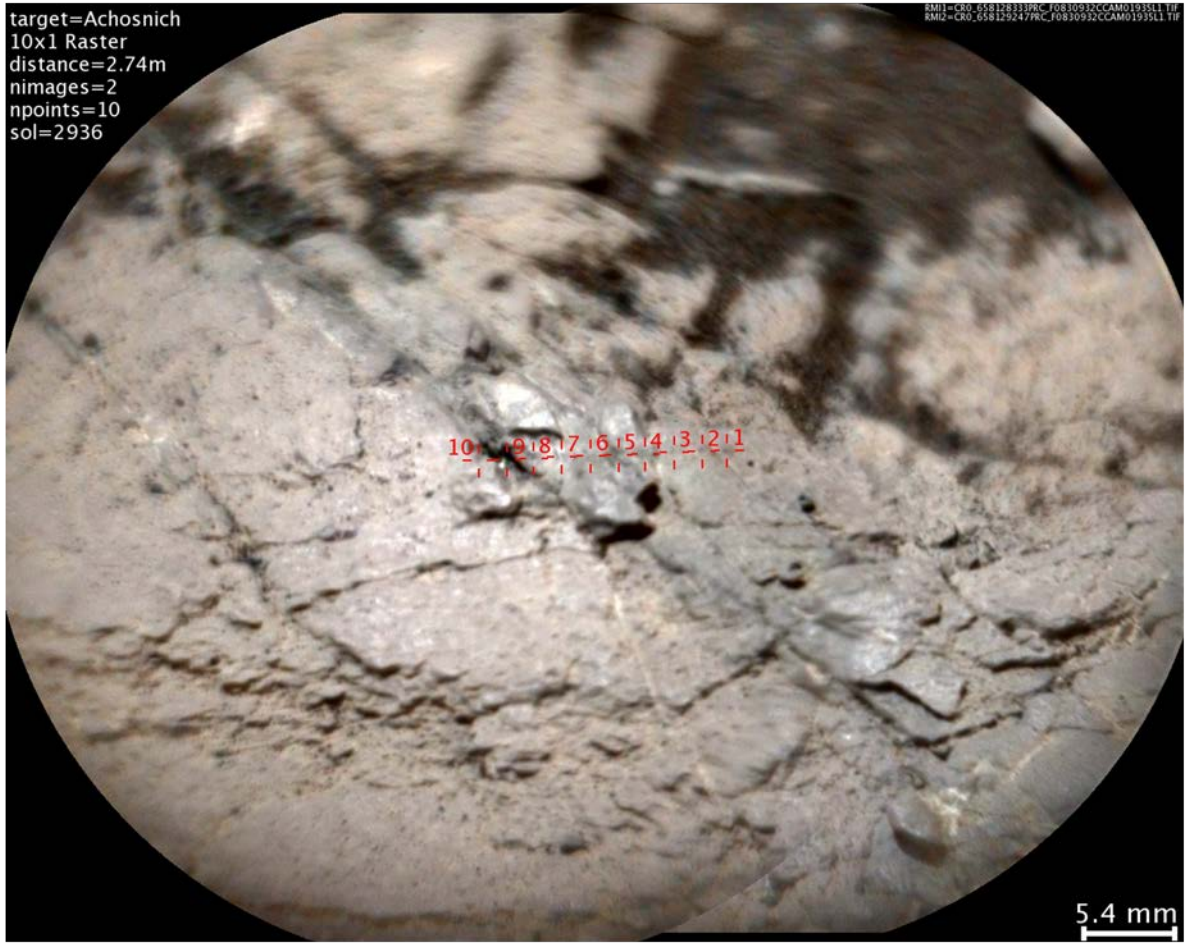


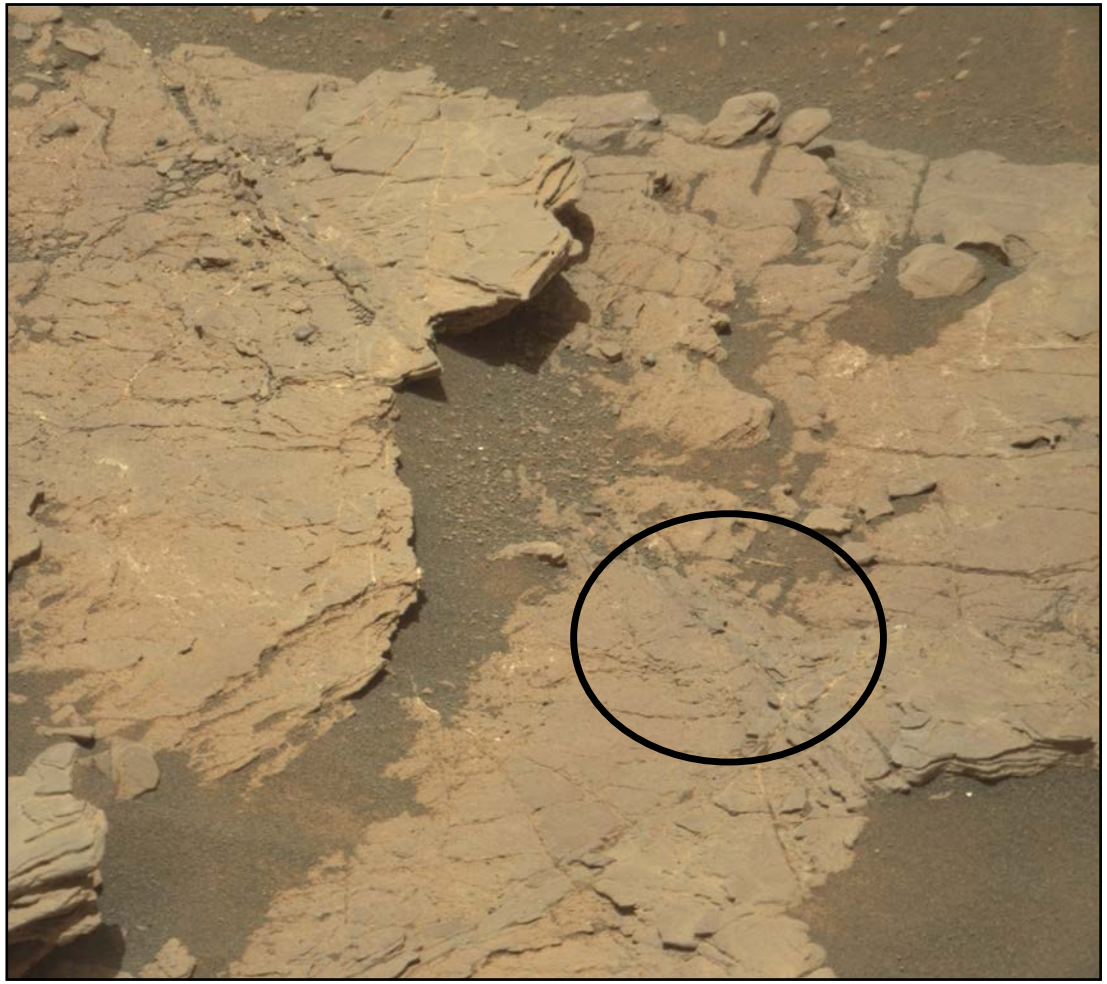
# Target: Achosnich

**Sol:** 2935
**Elev (m.):** -4112.41313202081
**CCAM Sequence ID:** CCAM01935

**Whole Target Classification:** Bedrock
**Lamination Strength:** Moderately Laminated
**Lamination Expression:** Primary Stratification
**Grain Visibility:** Below RMI Image Resolution
**Bedrock Appearance:** Dull
**Nodule Presence:** Absent
**Nodule Diameter:** Absent
**Nodule Resistance:** Absent
**Fracture Presence:** Common (~10-20% by Visual Inspection)

| # | Feature | SiO2 (wt%) | TiO2 (wt%) | Al2O3 (wt%) | FeOT (wt%) | MgO (wt%) | CaO (wt%) | Na2O (wt%) | K2O (wt%) | Sum of Oxides (wt%) |
|---|---|---|---|---|---|---|---|---|---|---|
| 1 | Bedrock | 53.7 | 0.87 | 11.5 | 18.4 | 8.4 | 1.3 | 2.53 | 1.31 | 98.01 |
| 2 | Bedrock | 53 | 0.86 | 11.2 | 17 | 10.9 | 1.4 | 2.61 | 1.11 | 98.08 |
| 3 | Bedrock | 53.3 | 0.82 | 10.8 | 16.5 | 12 | 1.7 | 2.59 | 1.11 | 98.82 |
| 4 | Vein or Fracture | 50.8 | 0.86 | 10.7 | 17.3 | 7.5 | 6.2 | 2.13 | 0.82 | 96.31 |
| 5 | Vein or Fracture | 50.1 | 0.89 | 10.9 | 17.1 | 11.9 | 2.4 | 2.06 | 0.57 | 95.92 |
| 6 | Vein or Fracture | 54.8 | 1 | 11.2 | 17.3 | 9.8 | 2.2 | 2.45 | 1.12 | 99.87 |
| 7 | Vein or Fracture | 43.3 | 0.74 | 8.2 | 15.7 | 6 | 12 | 1.79 | 0.57 | 88.3 |
| 8 | Vein or Fracture | 49.9 | 0.94 | 10.8 | 19.9 | 9.5 | 1.3 | 2.86 | 0.91 | 96.11 |
| 9 | Vein or Fracture | 42.9 | 0.87 | 8.8 | 22.4 | 5.4 | 5.2 | 1.97 | 0.64 | 88.18 |
| 10 | Bedrock | 56.9 | 0.85 | 11.4 | 17.9 | 8.2 | 1.2 | 2.5 | 1.8 | 100.75 |



# Target: Achnashellach

**Sol:** 2935
**Elev (m.):** -4112.40895474511
**CCAM Sequence ID:** CCAM02935

**Whole Target Classification:** Bedrock
**Lamination Strength:** Moderately Laminated
**Lamination Expression:** Primary Stratification
**Grain Visibility:** Below RMI Image Resolution
**Bedrock Appearance:** Dull
**Nodule Presence:** Absent
**Nodule Diameter:** Absent
**Nodule Resistance:** Absent
**Fracture Presence:** Common (~10-20% by Visual Inspection)

| # | Feature | SiO2 (wt%) | TiO2 (wt%) | Al2O3 (wt%) | FeOT (wt%) | MgO (wt%) | CaO (wt%) | Na2O (wt%) | K2O (wt%) | Sum of Oxides (wt%) |
|---|---|---|---|---|---|---|---|---|---|---|
| 1 | Bedrock | 55.1 | 1.01 | 11.9 | 18.1 | 9.4 | 1.6 | 2.67 | 1.11 | 100.89 |
| 2 | Bedrock | 56 | 0.83 | 11.6 | 17.5 | 9.1 | 1.5 | 2.65 | 1.12 | 100.3 |
| 3 | Vein or Fracture | 54.8 | 0.97 | 12.4 | 16.6 | 9.8 | 2.4 | 2.41 | 0.79 | 100.17 |
| 4 | Vein or Fracture | 53.3 | 1.09 | 12 | 17.5 | 9.9 | 2.3 | 2.39 | 0.86 | 99.34 |
| 5 | Bedrock | 52.7 | 1.44 | 10.1 | 17.9 | 10.8 | 1.8 | 2.36 | 0.81 | 97.91 |
| 6 | Bedrock | 52.4 | 0.89 | 10.4 | 20.2 | 8 | 1.4 | 2.43 | 1.09 | 96.81 |
| 7 | Bedrock | 47.5 | 0.88 | 8.7 | 19.7 | 6.2 | 1.3 | 2.42 | 0.61 | 87.31 |
| 8 | Bedrock | 45.7 | 0.89 | 8.8 | 22.8 | 5.2 | 1.5 | 2.35 | 0.72 | 87.96 |
| 9 | Bedrock | 47.6 | 0.9 | 9.4 | 20.4 | 6.9 | 1.7 | 2.39 | 0.65 | 89.94 |
| 10 | Bedrock | 52.8 | 0.89 | 10.5 | 21.7 | 6.3 | 1.6 | 2.58 | 1.17 | 97.54 |

# Target: Smugglers_Cave

**Sol:** 2935
**Elev (m.):** -4112.33967448088
**CCAM Sequence ID:** CCAM03935

**Whole Target Classification:** Bedrock
**Lamination Strength:** Moderately Laminated
**Lamination Expression:** Primary Stratification
**Grain Visibility:** Below RMI Image Resolution
**Bedrock Appearance:** Dull
**Nodule Presence:** Absent
**Nodule Diameter:** Absent
**Nodule Resistance:** Absent
**Fracture Presence:** Common (~10-20% by Visual Inspection)

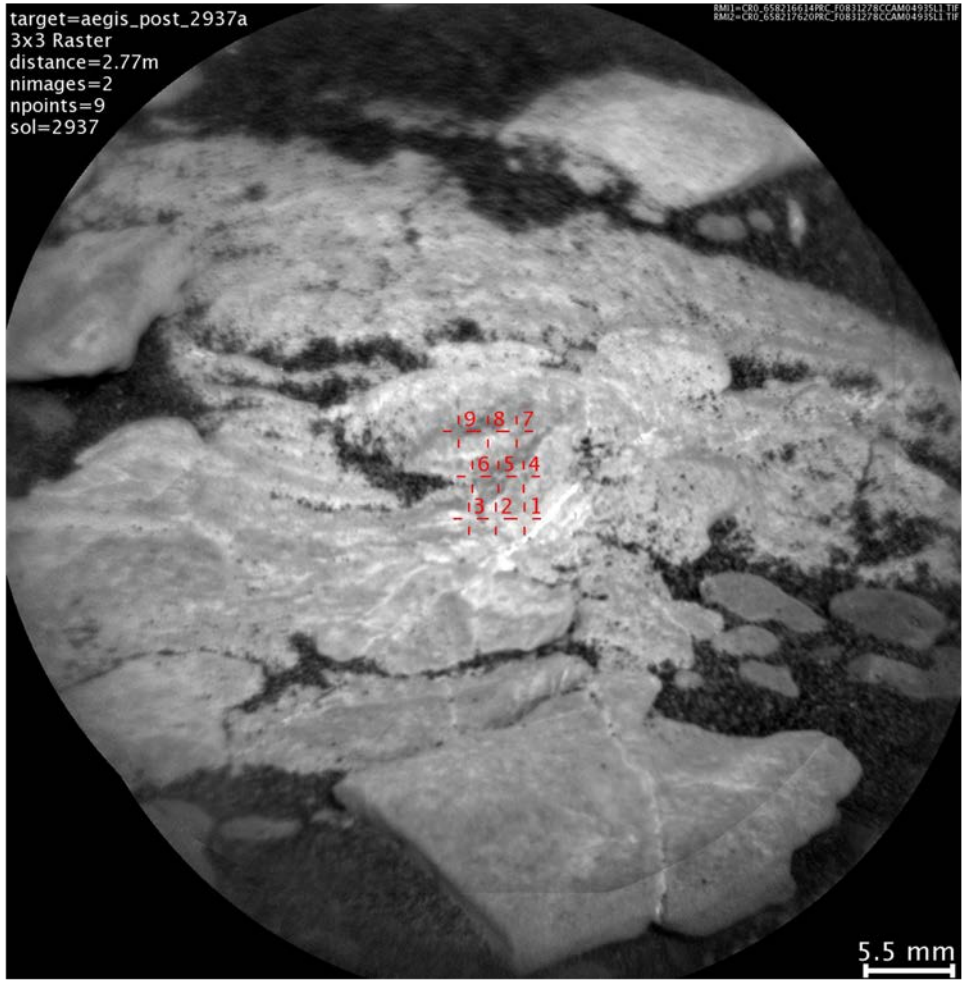
| # | Feature | SiO2 (wt%) | TiO2 (wt%) | Al2O3 (wt%) | FeOT (wt%) | MgO (wt%) | CaO (wt%) | Na2O (wt%) | K2O (wt%) | Sum of Oxides (wt%) |
|---|---|---|---|---|---|---|---|---|---|---|
| 1 | Vein or Fracture | 44 | 0.77 | 9.2 | 14.1 | 4.9 | 15.8 | 1.52 | 0.55 | 90.84 |
| 2 | Vein or Fracture | 28.5 | 0.59 | 5.1 | 8.1 | 2.8 | 27 | 0.69 | 0.2 | 72.98 |
| 3 | Vein or Fracture | 9.5 | 0.2 | 1.4 | 2.5 | 2.1 | 32 | 0.5 | 0.02 | 48.22 |
| 4 | Nodule | 50 | 0.93 | 10.1 | 20 | 9.6 | 1.6 | 2.45 | 0.81 | 95.49 |
| 5 | Vein or Fracture | 40.3 | 0.66 | 10.2 | 12.3 | 4.3 | 18.9 | 1.68 | 0.52 | 88.86 |
| 6 | Vein or Fracture | 48.5 | 0.81 | 10.7 | 17.1 | 6.7 | 10.2 | 1.84 | 0.71 | 96.56 |
| 7 | Vein or Fracture | 46.1 | 0.79 | 9.9 | 16.2 | 7.6 | 12.3 | 1.75 | 0.51 | 95.15 |
| 8 | Vein or Fracture | 38.3 | 0.7 | 6.9 | 13.6 | 4.8 | 19.1 | 1.38 | 0.32 | 85.1 |
| 9 | Vein or Fracture | 51.1 | 0.92 | 9.9 | 16.5 | 10.9 | 3.9 | 2.2 | 0.77 | 96.19 |
| 10 | Vein or Fracture | 55.7 | 0.86 | 13.3 | 16.5 | 8.9 | 3.6 | 2.74 | 1.13 | 102.73 |

# Target: aegis_post_2937a

**Sol:** 2935
**Elev (m.):** -4114.54792358757
**CCAM Sequence ID:** CCAM04935

**Whole Target Classification:** Bedrock
**Lamination Strength:** Moderately Laminated
**Lamination Expression:** Primary Stratification
**Grain Visibility:** Below RMI Image Resolution
**Bedrock Appearance:** Dull
**Nodule Presence:** Absent
**Nodule Diameter:** Absent
**Nodule Resistance:** Absent
**Fracture Presence:** Occasional (<10% by Visual Inspection)

| # | Feature | SiO2 (wt%) | TiO2 (wt%) | Al2O3 (wt%) | FeOT (wt%) | MgO (wt%) | CaO (wt%) | Na2O (wt%) | K2O (wt%) | Sum of Oxides (wt%) |
|---|---|---|---|---|---|---|---|---|---|---|
| 1 | Bedrock | 54.1 | 0.9 | 12.5 | 16 | 10.4 | 1.6 | 2.84 | 1.54 | 99.88 |
| 2 | Bedrock | 53.6 | 1.04 | 13.6 | 16.6 | 9.7 | 1.8 | 2.89 | 1.24 | 100.47 |
| 3 | Bedrock | 53.6 | 0.99 | 11.7 | 16.4 | 9.9 | 1.9 | 2.47 | 1.04 | 98 |
| 4 | Bedrock | 53.6 | 0.98 | 11.8 | 16.9 | 10.1 | 1.6 | 2.88 | 1.48 | 99.34 |
| 5 | Bedrock | 54.1 | 1.02 | 13 | 16.7 | 10.6 | 1.6 | 2.57 | 1.29 | 100.88 |
| 6 | Bedrock | 53.2 | 0.96 | 11.6 | 16.5 | 9.9 | 2.2 | 2.47 | 1.16 | 97.99 |
| 7 | Bedrock | 54.3 | 0.95 | 12.7 | 16.7 | 9.3 | 2 | 2.61 | 1.29 | 99.85 |
| 8 | Bedrock | 54.9 | 1 | 12.5 | 16.7 | 10.7 | 1.6 | 2.5 | 1.39 | 101.29 |
| 9 | Bedrock | 56.4 | 0.84 | 10.8 | 16.8 | 9.7 | 1.1 | 2.27 | 1.46 | 99.37 |

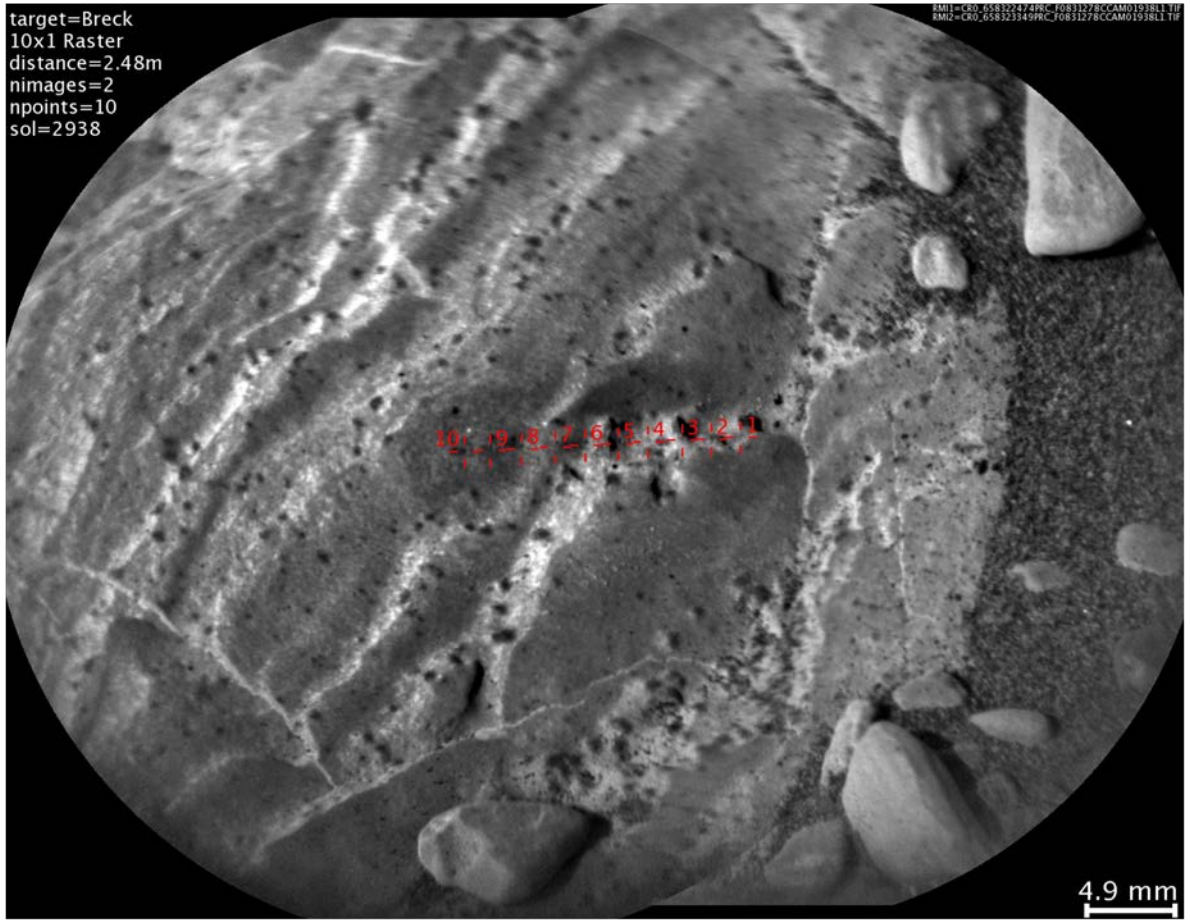


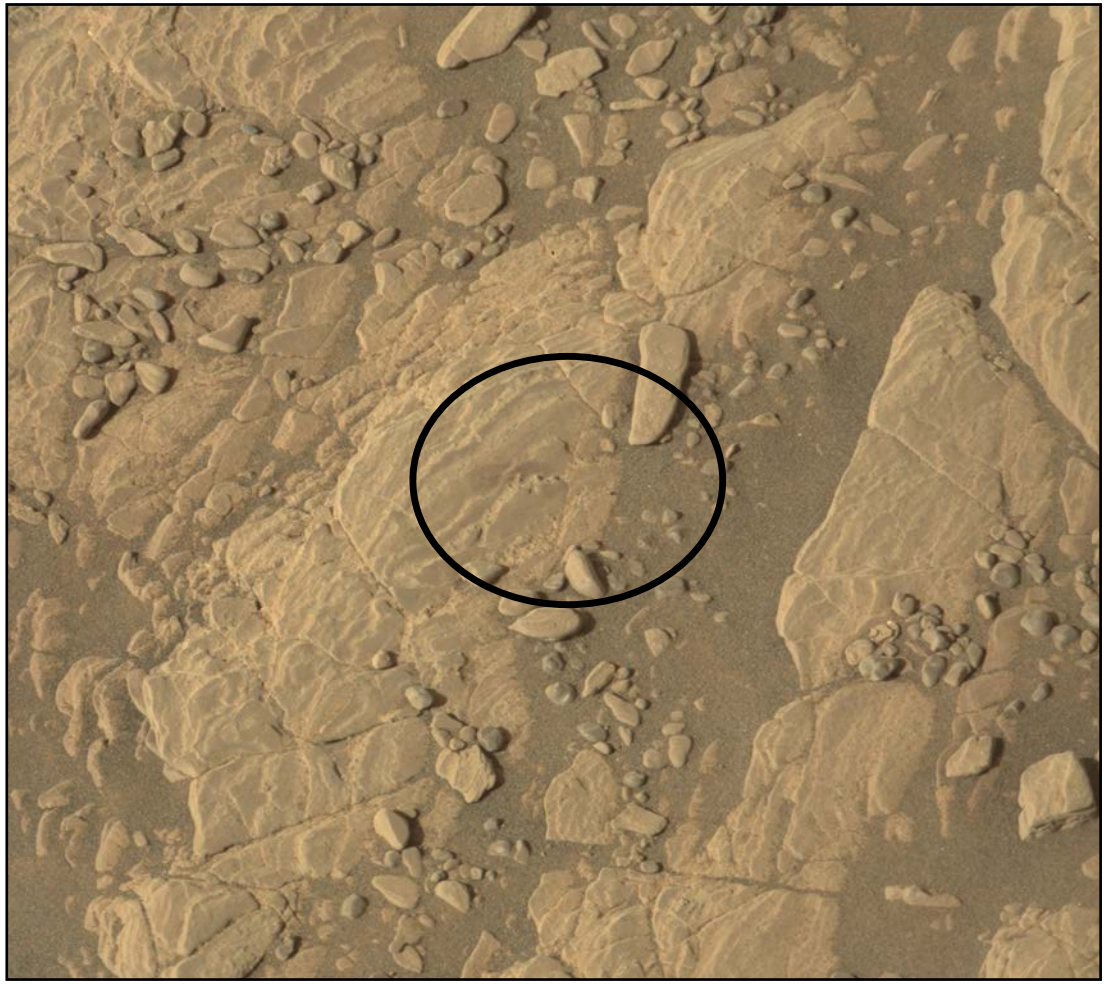
# Target: Breck

**Sol:** 2938
**Elev (m.):** -4114.50435277425
**CCAM Sequence ID:** CCAM01938

**Whole Target Classification:** Bedrock
**Lamination Strength:** Moderately Laminated
**Lamination Expression:** Primary Stratification
**Grain Visibility:** Below RMI Image Resolution
**Bedrock Appearance:** Dull
**Nodule Presence:** Absent
**Nodule Diameter:** Absent
**Nodule Resistance:** Absent
**Fracture Presence:** Occasional (<10% by Visual Inspection)

| # | Feature | SiO2 (wt%) | TiO2 (wt%) | Al2O3 (wt%) | FeOT (wt%) | MgO (wt%) | CaO (wt%) | Na2O (wt%) | K2O (wt%) | Sum of Oxides (wt%) |
|---|---|---|---|---|---|---|---|---|---|---|
| 1 | Vein or Fracture | 49.9 | 0.88 | 10.2 | 16.1 | 8.3 | 5.8 | 2.25 | 0.92 | 94.35 |
| 2 | Bedrock | 51 | 0.85 | 11 | 17.5 | 10.5 | 1.9 | 2.81 | 0.97 | 96.53 |
| 3 | Bedrock | 47.6 | 1.09 | 10.6 | 19 | 11.1 | 1.7 | 2.46 | 0.69 | 94.24 |
| 4 | Bedrock | 51 | 0.85 | 10.7 | 17 | 11.1 | 2 | 2.56 | 0.75 | 95.96 |
| 5 | Bedrock | 51.9 | 0.88 | 10.1 | 15.9 | 11.7 | 1.7 | 2.46 | 0.86 | 95.5 |
| 6 | Bedrock | 52.5 | 0.88 | 11.3 | 17.4 | 10.5 | 1.8 | 2.36 | 0.88 | 97.62 |
| 7 | Bedrock | 51.9 | 0.81 | 11 | 17.2 | 8.6 | 2 | 2.71 | 1.42 | 95.64 |
| 8 | Bedrock | 51.6 | 0.9 | 9.8 | 17 | 11.4 | 1.5 | 2.16 | 0.96 | 95.32 |
| 9 | Bedrock | 51.7 | 0.84 | 12.2 | 16.7 | 9.9 | 1.9 | 2.62 | 1.11 | 96.97 |
| 10 | Bedrock | 51.6 | 0.81 | 10.2 | 17.3 | 10.3 | 1.5 | 2.3 | 1.14 | 95.15 |



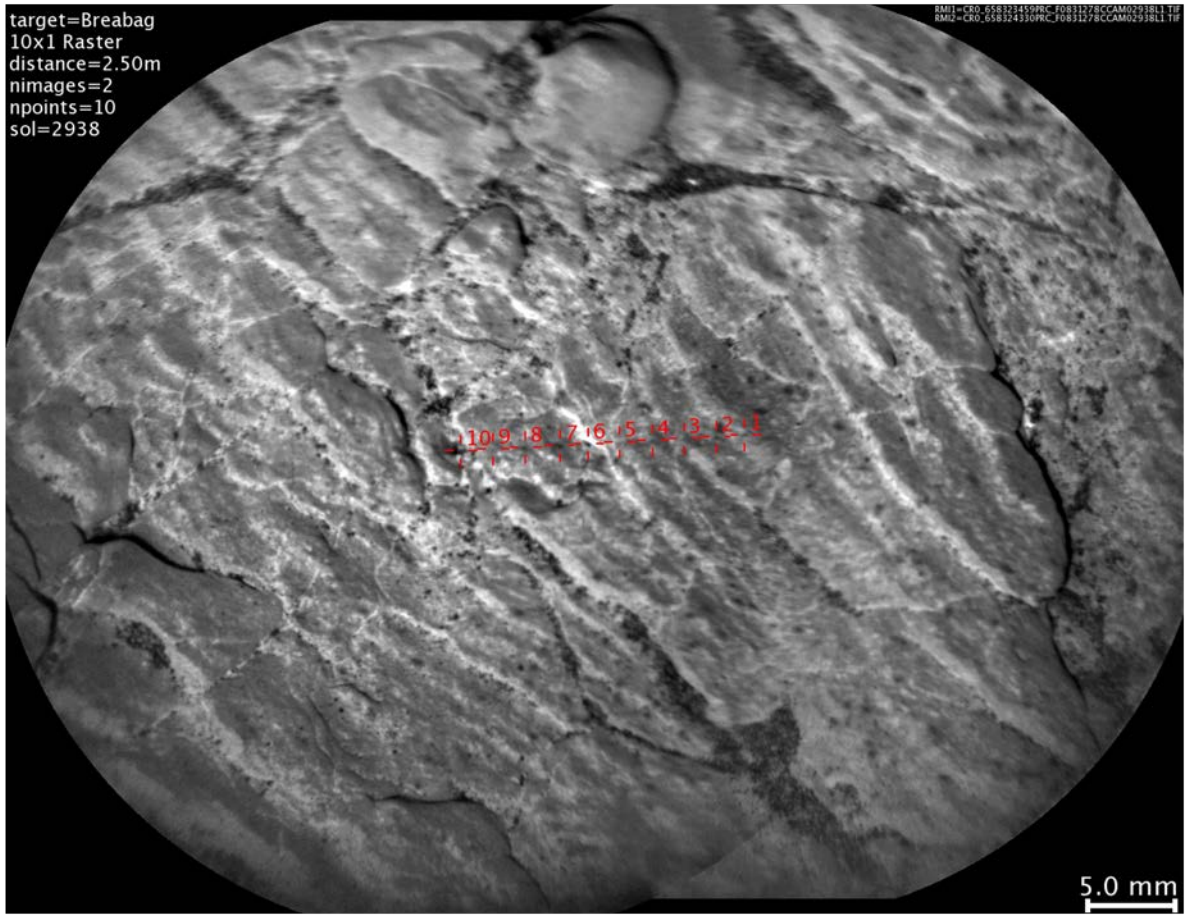
# Target: Breabag

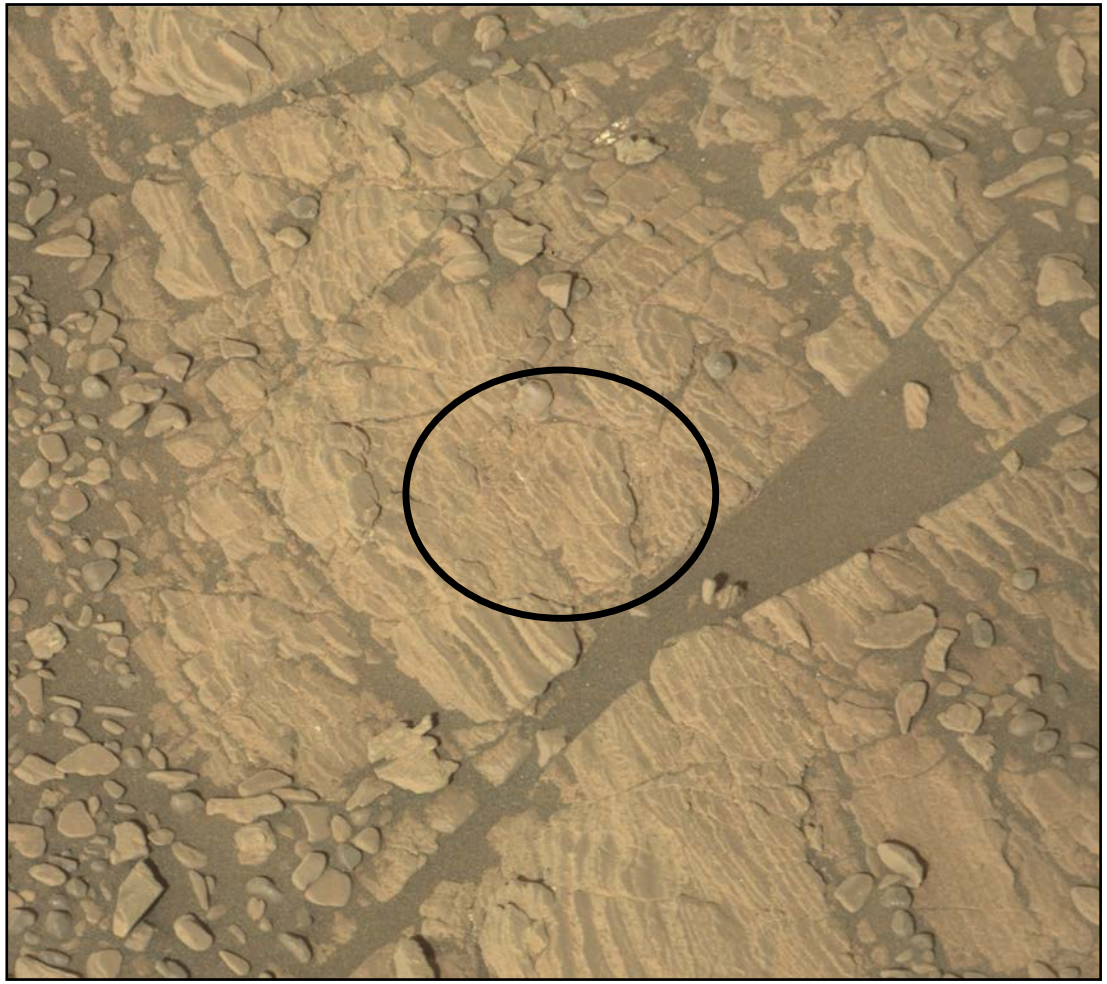
**Sol:** 2938
**Elev (m.):** -4114.450935629

**CCAM Sequence ID:** CCAM02938

**Whole Target Classification:** Bedrock
**Lamination Strength:** Moderately Laminated
**Lamination Expression:** Primary Stratification
**Grain Visibility:** Below RMI Image Resolution
**Bedrock Appearance:** Dull
**Nodule Presence:** Absent
**Nodule Diameter:** Absent
**Nodule Resistance:** Absent
**Fracture Presence:** Occasional (<10% by Visual Inspection)

| # | Feature | SiO2 (wt%) | TiO2 (wt%) | Al2O3 (wt%) | FeOT (wt%) | MgO (wt%) | CaO (wt%) | Na2O (wt%) | K2O (wt%) | Sum of Oxides (wt%) |
|---|---|---|---|---|---|---|---|---|---|---|
| 1 | Bedrock | 51.5 | 0.97 | 11.4 | 17.7 | 10.4 | 1.8 | 2.51 | 1.19 | 97.47 |
| 2 | Bedrock | 52.8 | 0.93 | 11 | 17.6 | 9.8 | 1.8 | 2.54 | 1.27 | 97.74 |
| 3 | Vein or Fracture | 54.1 | 0.9 | 12.7 | 17.5 | 7.8 | 2.1 | 2.51 | 1.32 | 98.93 |
| 4 | Bedrock | 55 | 0.86 | 11 | 16.9 | 9.1 | 1.8 | 2.45 | 1.35 | 98.46 |
| 5 | Bedrock | 54.4 | 0.9 | 11.5 | 17.7 | 9.5 | 1.8 | 2.34 | 1.09 | 99.23 |
| 6 | Vein or Fracture | 49.7 | 1 | 11.1 | 18.1 | 8.8 | 4.7 | 2.23 | 0.88 | 96.51 |
| 7 | Bedrock | 52.7 | 0.99 | 9 | 19.2 | 7.9 | 1.3 | 2.15 | 1.03 | 94.27 |
| 8 | Bedrock | 54.7 | 0.91 | 11.5 | 17.3 | 8.7 | 1.8 | 2.38 | 1.29 | 98.58 |
| 9 | Bedrock | 53.5 | 1.03 | 10.3 | 18 | 9.5 | 1.5 | 2.36 | 1.49 | 97.68 |
| 10 | Bedrock | 54.8 | 0.87 | 9.2 | 15.2 | 7.9 | 2 | 2.21 | 0.95 | 93.13 |



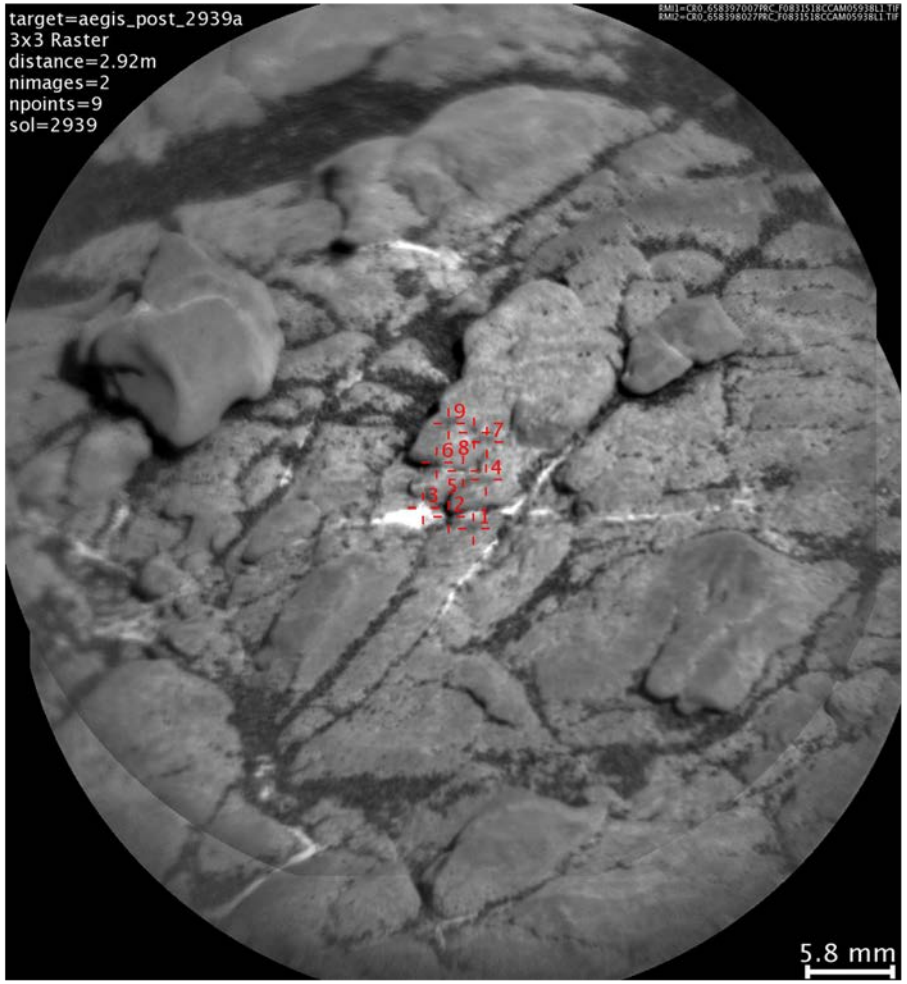



# Target: aegis_post_2939a

**Sol:** 2938
**Elev (m.):** -4113.5593490589
**CCAM Sequence ID:** CCAM05938

**Whole Target Classification:** Bedrock
**Lamination Strength:** Absent
**Lamination Expression:** Absent
**Grain Visibility:** Below RMI Image Resolution
**Bedrock Appearance:** Dull
**Nodule Presence:** Absent
**Nodule Diameter:** Absent
**Nodule Resistance:** Absent
**Fracture Presence:** Occasional (<10% by Visual Inspection)

| # | Feature | SiO2 (wt%) | TiO2 (wt%) | Al2O3 (wt%) | FeOT (wt%) | MgO (wt%) | CaO (wt%) | Na2O (wt%) | K2O (wt%) | Sum of Oxides (wt%) |
|---|---|---|---|---|---|---|---|---|---|---|
| 1 | Bedrock | 56.1 | 0.95 | 12.1 | 19 | 6.6 | 1.2 | 2.53 | 2.22 | 100.7 |
| 2 | Vein or Fracture | 32.5 | 0.58 | 6.7 | 10.7 | 2.6 | 24.6 | 0.71 | 0.23 | 78.62 |
| 3 | Vein or Fracture | 7.8 | 0.21 | 0.8 | 6.5 | 2.4 | 27.2 | 0.32 | 0.05 | 45.28 |
| 4 | Bedrock | 56.6 | 1 | 12 | 17.5 | 6.8 | 1.6 | 2.82 | 2.45 | 100.77 |
| 5 | Vein or Fracture | 51.5 | 0.92 | 11.5 | 18.7 | 7.1 | 4.9 | 2.49 | 1.69 | 98.8 |
| 6 | Bedrock | 56 | 1.04 | 10.7 | 18.5 | 8.1 | 1.3 | 2.3 | 2.14 | 100.08 |
| 7 | Bedrock | 55.5 | 1.11 | 11.9 | 17.8 | 7.8 | 1.7 | 2.64 | 2.21 | 100.66 |
| 8 | Bedrock | 56 | 0.96 | 12.4 | 18.3 | 7.2 | 1.2 | 2.49 | 2.27 | 100.82 |
| 9 | Bedrock | 56.8 | 0.98 | 10 | 16.9 | 7.6 | 1.3 | 2.44 | 2.1 | 98.12 |

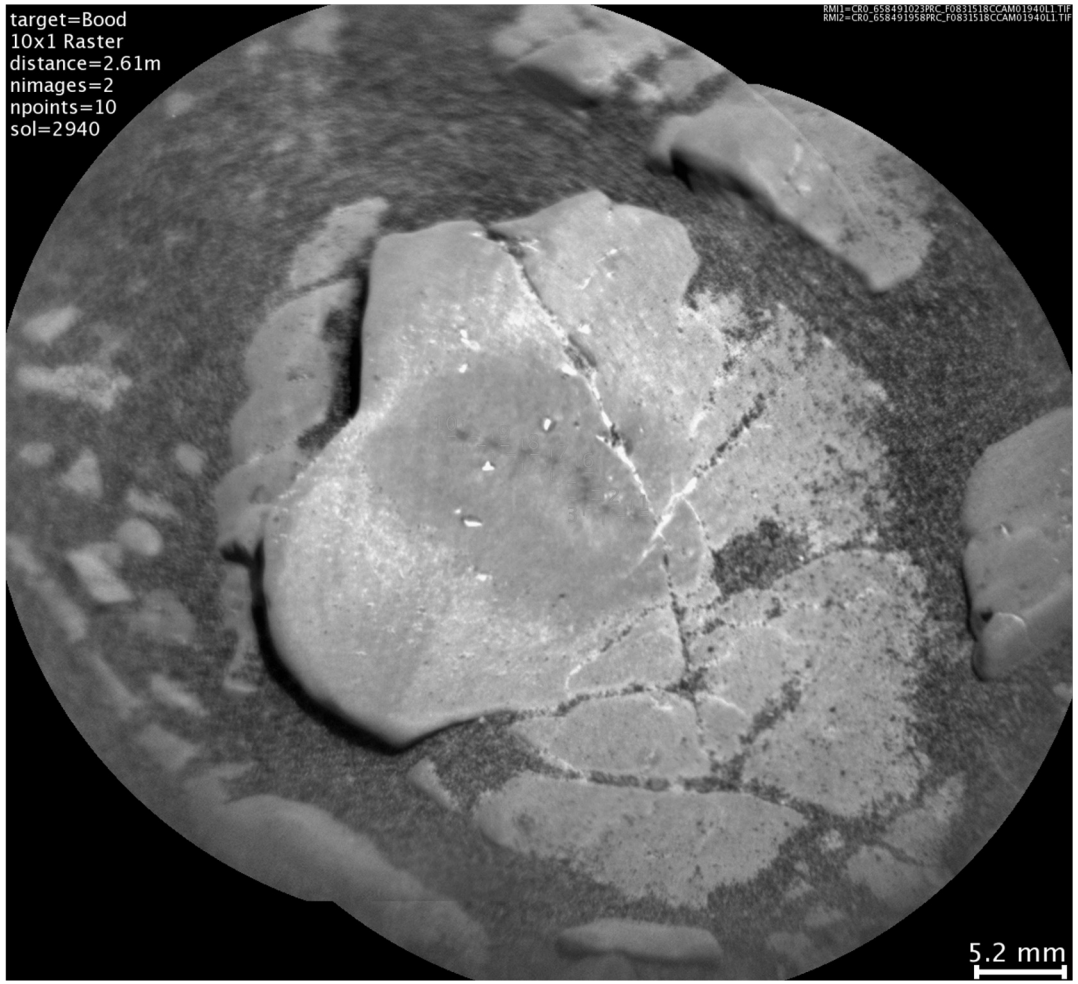


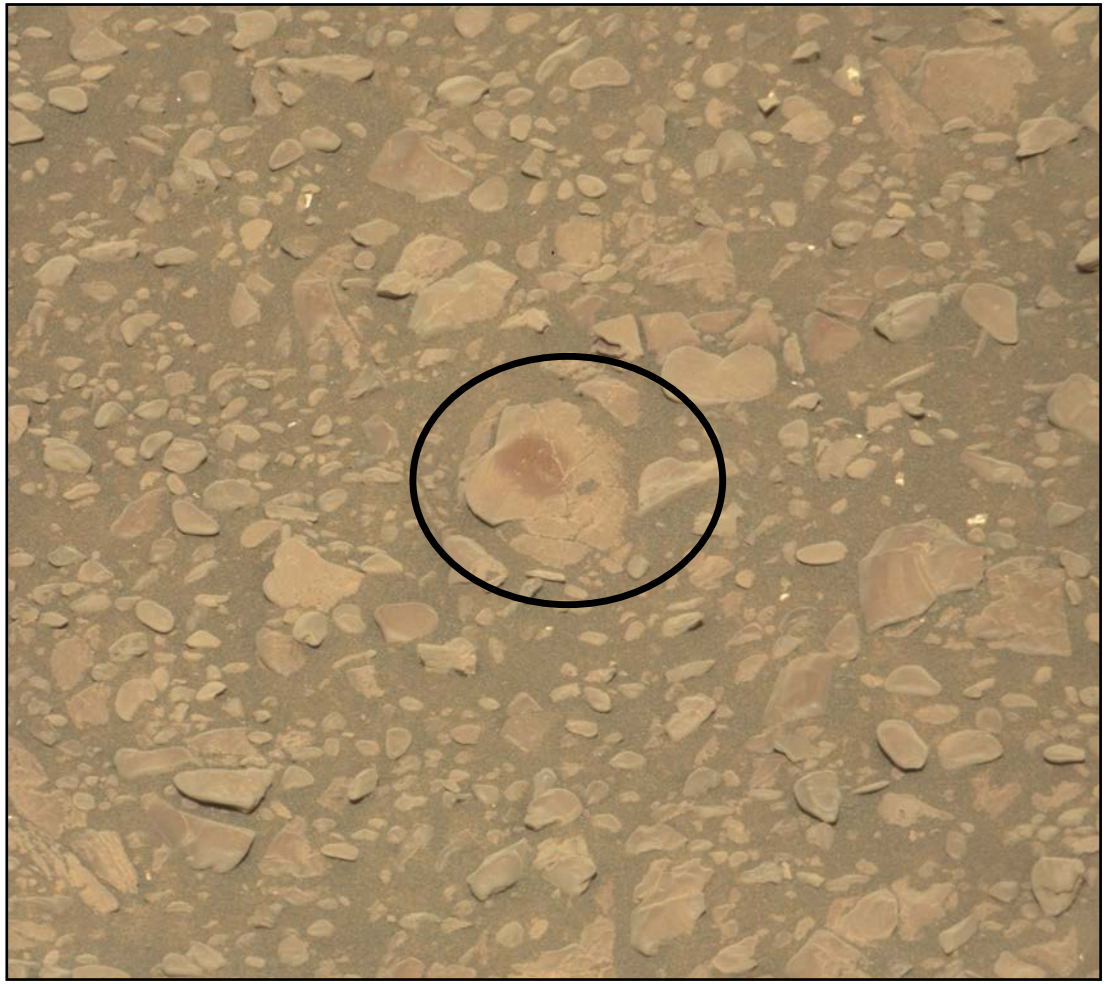
# Target: Bood

**Sol:** 2940
**Elev (m.):** -4113.31347503748
**CCAM Sequence ID:** CCAM01940

**Whole Target Classification:** Bedrock
**Lamination Strength:** Absent
**Lamination Expression:** Absent
**Grain Visibility:** Below RMI Image Resolution
**Bedrock Appearance:** Dull
**Nodule Presence:** Absent
**Nodule Diameter:** Absent
**Nodule Resistance:** Absent
**Fracture Presence:** Occasional (<10% by Visual Inspection)

| # | Feature | SiO2 (wt%) | TiO2 (wt%) | Al2O3 (wt%) | FeOT (wt%) | MgO (wt%) | CaO (wt%) | Na2O (wt%) | K2O (wt%) | Sum of Oxides (wt%) |
|---|---|---|---|---|---|---|---|---|---|---|
| 1 | Bedrock | 55.1 | 1 | 11.2 | 17.4 | 6.3 | 1.2 | 2.49 | 2.15 | 96.84 |
| 2 | Bedrock | 55.7 | 1.45 | 9.9 | 17.3 | 6.4 | 1.3 | 2.37 | 2.15 | 96.57 |
| 3 | Bedrock | 55.9 | 0.97 | 11 | 17.9 | 6.2 | 1.1 | 2.41 | 2.06 | 97.54 |
| 4 | Bedrock | 55.7 | 0.92 | 11.2 | 17.7 | 6.2 | 1.2 | 2.5 | 2.02 | 97.44 |
| 5 | Bedrock | 55.1 | 0.89 | 11.3 | 17.7 | 6.1 | 1.2 | 2.47 | 2.02 | 96.78 |
| 6 | Bedrock | 56.4 | 0.92 | 10.2 | 16.9 | 6 | 1.2 | 2.42 | 2.18 | 96.22 |
| 7 | Bedrock | 56.1 | 1.06 | 10.8 | 17.7 | 6.2 | 1.1 | 2.54 | 2.17 | 97.67 |
| 8 | Bedrock | 55.9 | 0.88 | 10.9 | 17.3 | 6.4 | 1.1 | 2.43 | 2.07 | 96.98 |
| 9 | Bedrock | 55.4 | 0.85 | 11.7 | 18.1 | 6.2 | 1.2 | 2.45 | 2.12 | 98.02 |
| 10 | Bedrock | 55.8 | 1.02 | 11 | 17.4 | 6.3 | 1.2 | 2.48 | 2.1 | 97.3 |



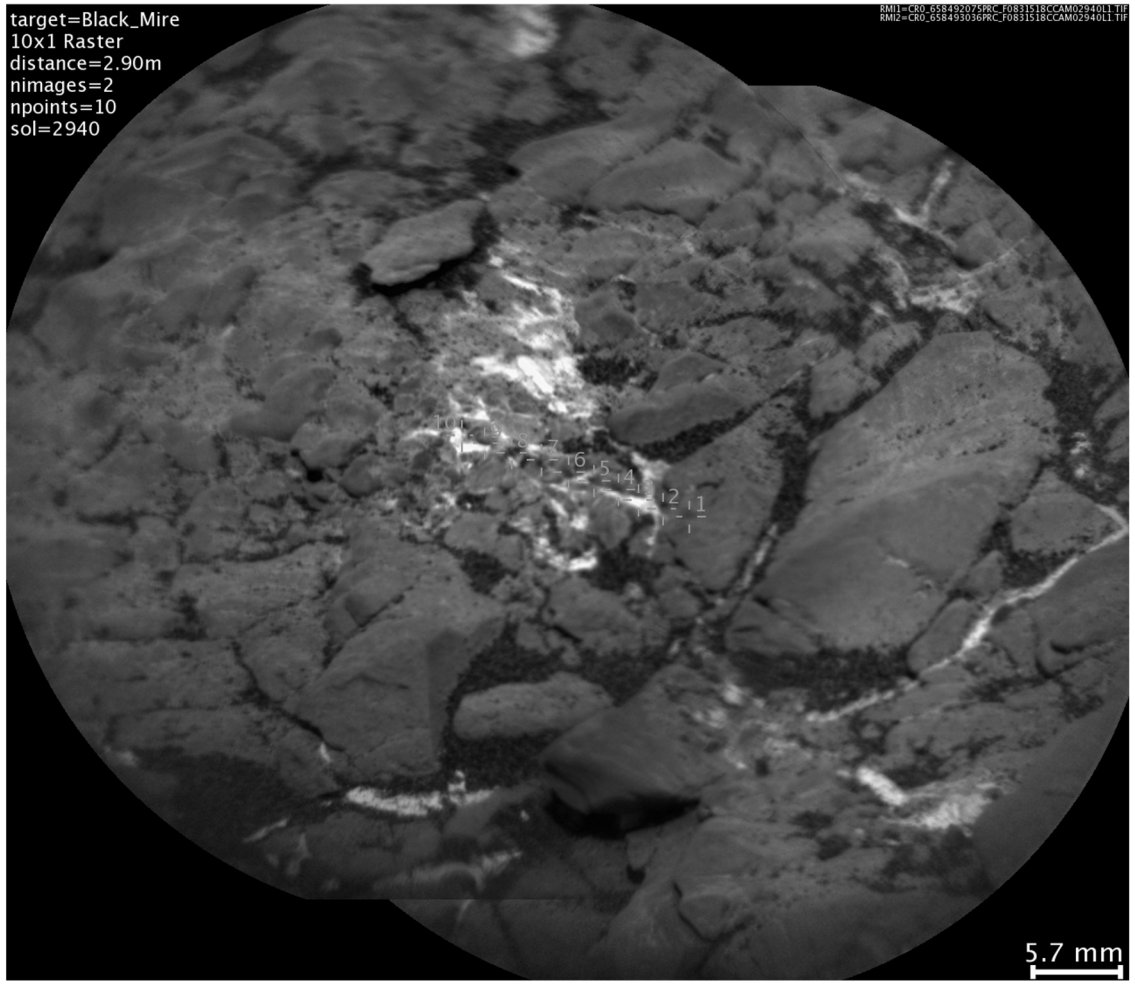



# Target: Black_Mire

**Sol:** 2940
**Elev (m.):** -4113.57236750315
**CCAM Sequence ID:** CCAM02940

**Whole Target Classification:** Bedrock
**Lamination Strength:** Absent
**Lamination Expression:** Absent
**Grain Visibility:** Below RMI Image Resolution
**Bedrock Appearance:** Dull
**Nodule Presence:** Absent
**Nodule Diameter:** Absent
**Nodule Resistance:** Absent
**Fracture Presence:** Common (~10-20% by Visual Inspection)

| # | Feature | SiO2 (wt%) | TiO2 (wt%) | Al2O3 (wt%) | FeOT (wt%) | MgO (wt%) | CaO (wt%) | Na2O (wt%) | K2O (wt%) | Sum of Oxides (wt%) |
|---|---|---|---|---|---|---|---|---|---|---|
| 1 | Bedrock | 56 | 1.15 | 11 | 17.7 | 7.1 | 1.7 | 2.45 | 1.72 | 98.82 |
| 2 | Bedrock | 55.1 | 1.08 | 12.9 | 19 | 6.7 | 1.9 | 2.44 | 1.64 | 100.76 |
| 3 | Vein or Fracture | 2.4 | 0.2 | 0.6 | 3.8 | 1.3 | 30.3 | 0.23 | 0.01 | 38.84 |
| 4 | Vein or Fracture | 46.7 | 0.79 | 9.1 | 16.7 | 5.8 | 10.2 | 1.76 | 1.16 | 92.21 |
| 5 | Bedrock | 53.7 | 0.87 | 10.3 | 18 | 7.4 | 2.3 | 2.11 | 1.91 | 96.59 |
| 6 | Vein or Fracture | 40.3 | 0.8 | 6.6 | 21 | 15.2 | 1.6 | 2.26 | 0.35 | 88.11 |
| 7 | Bedrock | 54.9 | 0.91 | 11.3 | 19.9 | 6.2 | 2.1 | 2.45 | 2.21 | 99.97 |
| 8 | Bedrock | 53.3 | 1.09 | 12 | 19 | 7 | 2.3 | 2.34 | 1.5 | 98.53 |
| 9 | Vein or Fracture | 18.8 | 0.56 | 3.5 | 7.5 | 2.3 | 28 | 0.58 | 0.17 | 61.41 |
| 10 | Vein or Fracture | 15.6 | 0.2 | 2.8 | 7.5 | 2.7 | 25.4 | 0.56 | 0.11 | 54.87 |

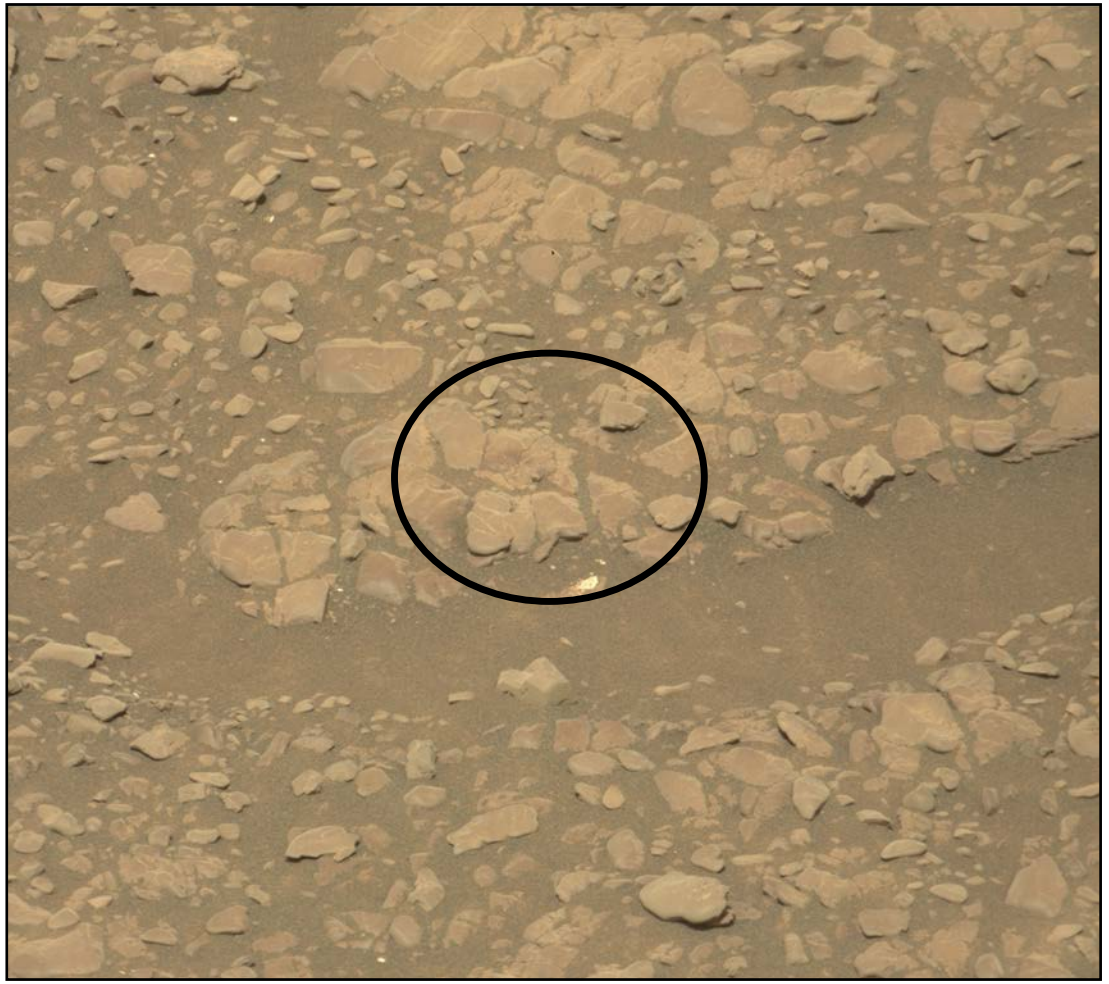


# Target: Dale

**Sol:** 2940
**Elev (m.):** -4113.37330662663
**CCAM Sequence ID:** CCAM03940

**Whole Target Classification:** Bedrock
**Lamination Strength:** Absent
**Lamination Expression:** Absent
**Grain Visibility:** Below RMI Image Resolution
**Bedrock Appearance:** Dull
**Nodule Presence:** Absent
**Nodule Diameter:** Absent
**Nodule Resistance:** Absent
**Fracture Presence:** Common (~10-20% by Visual Inspection)

| # | Feature | SiO2 (wt%) | TiO2 (wt%) | Al2O3 (wt%) | FeOT (wt%) | MgO (wt%) | CaO (wt%) | Na2O (wt%) | K2O (wt%) | Sum of Oxides (wt%) |
|---|---|---|---|---|---|---|---|---|---|---|
| 1 | Bedrock | 56.9 | 0.91 | 11.6 | 18.8 | 5.9 | 1.1 | 2.52 | 2.47 | 100.2 |
| 2 | Bedrock | 56.6 | 0.91 | 11.9 | 18.4 | 6.3 | 1.2 | 2.42 | 2.27 | 100 |
| 3 | Bedrock | 55.7 | 1.01 | 12.8 | 18.1 | 6.9 | 1.5 | 2.39 | 2.37 | 100.77 |
| 4 | Bedrock | 56.5 | 1.03 | 12.5 | 18.9 | 6.2 | 1.2 | 2.62 | 2.65 | 101.6 |
| 5 | Bedrock | 55.7 | 0.92 | 10.7 | 18.5 | 6.9 | 1.2 | 2.25 | 2.19 | 98.36 |
| 6 | Vein or Fracture | 50.5 | 0.91 | 10.7 | 18.6 | 5.5 | 6.2 | 2.07 | 1.96 | 96.44 |
| 7 | Vein or Fracture | 53 | 0.95 | 10.7 | 19 | 5.3 | 4.3 | 2.42 | 2.29 | 97.96 |
| 8 | Bedrock | 55.5 | 0.95 | 12.2 | 19 | 6.4 | 1.2 | 2.38 | 2.21 | 99.84 |
| 9 | Bedrock | 56.8 | 0.88 | 11.7 | 18.8 | 6.3 | 1.1 | 2.61 | 2.74 | 100.93 |
| 10 | Bedrock | 57.4 | 0.99 | 12.4 | 18.4 | 6.1 | 1.4 | 2.66 | 2.52 | 101.87 |

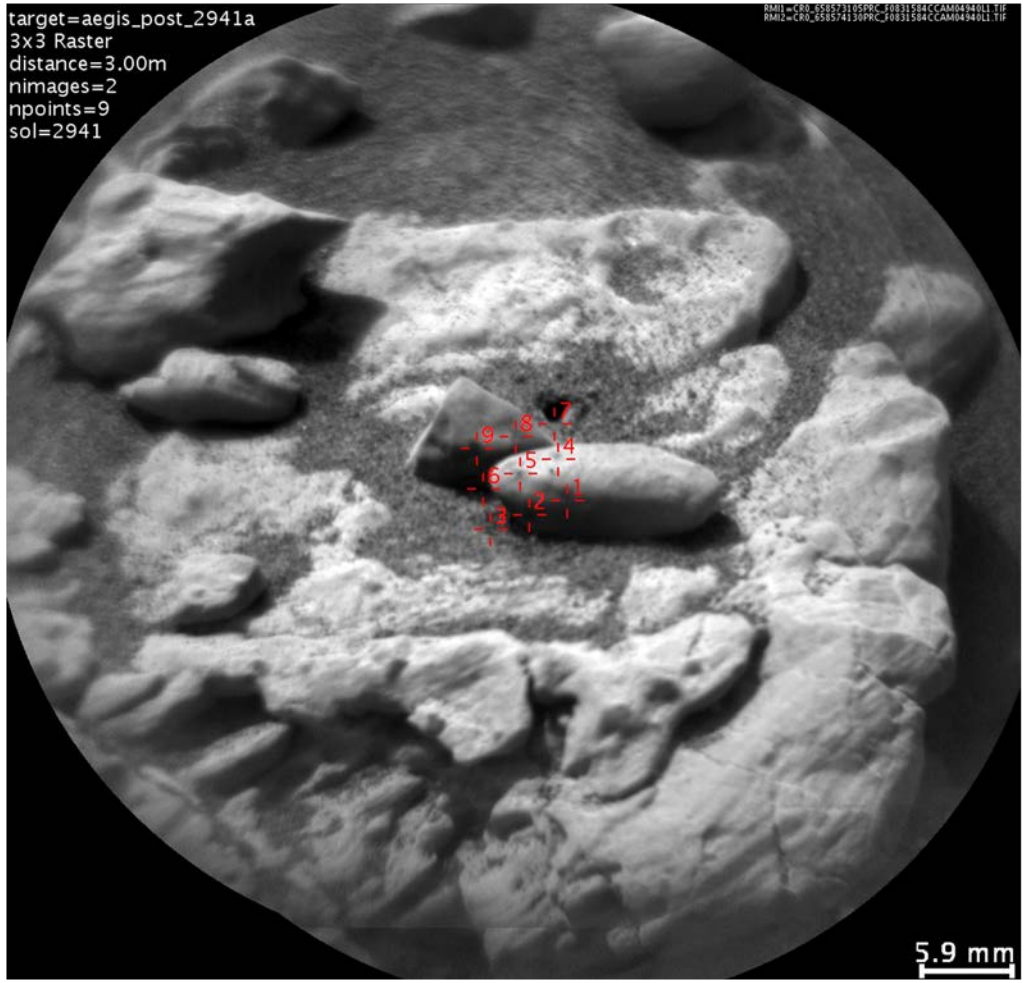


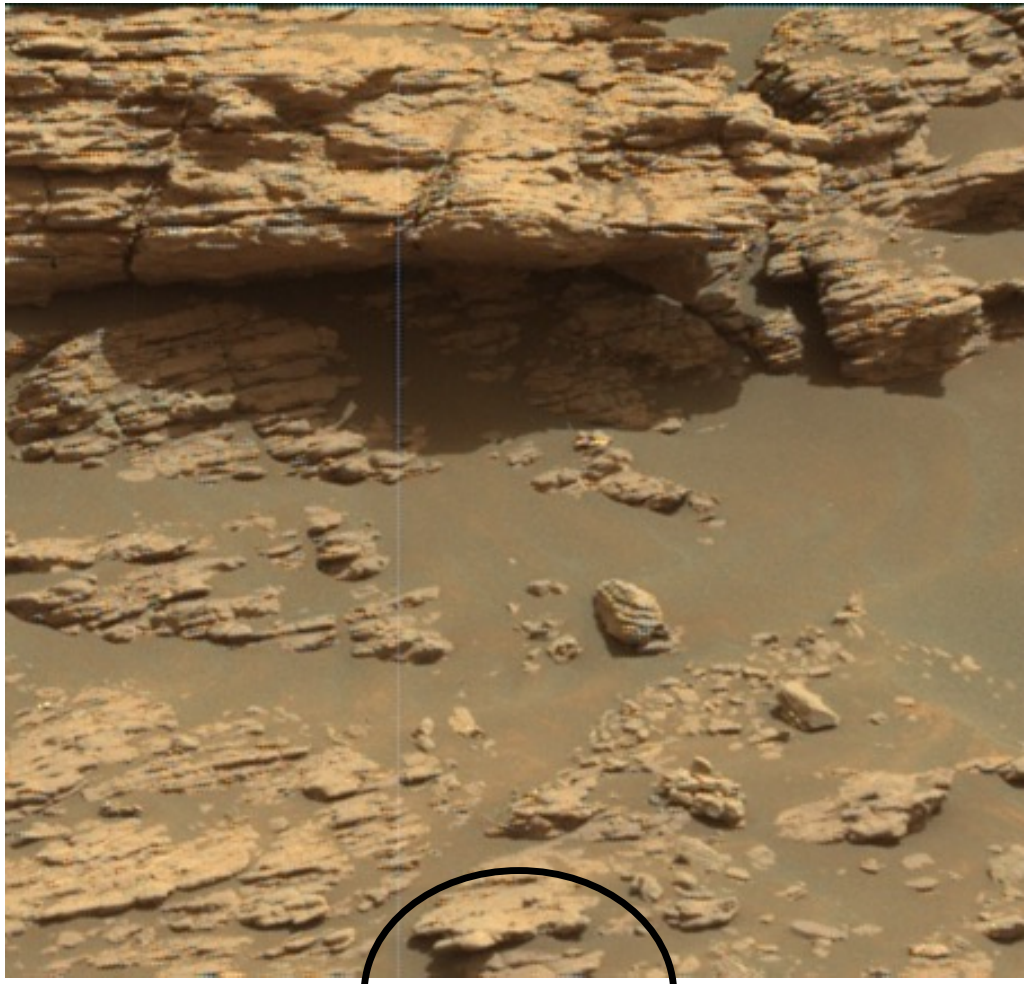
# Target: aegis_post_2941a

**Sol:** 2940
**Elev (m.):** -4111.86462319031
**CCAM Sequence ID:** CCAM04940

**Whole Target Classification:** Float
**Lamination Strength:** Absent
**Lamination Expression:** Absent
**Grain Visibility:** Below RMI Image Resolution
**Bedrock Appearance:** Dull
**Nodule Presence:** Absent
**Nodule Diameter:** Absent
**Nodule Resistance:** Absent
**Fracture Presence:** Absent

| # | Feature | SiO2 (wt%) | TiO2 (wt%) | Al2O3 (wt%) | FeOT (wt%) | MgO (wt%) | CaO (wt%) | Na2O (wt%) | K2O (wt%) | Sum of Oxides (wt%) |
|---|---|---|---|---|---|---|---|---|---|---|
| 1 | Bedrock | 56.8 | 0.92 | 11.7 | 18.6 | 6.7 | 1.3 | 2.78 | 2.55 | 101.35 |
| 2 | Bedrock | 55.7 | 0.98 | 11.8 | 18.6 | 7.3 | 1.2 | 2.81 | 2.29 | 100.68 |
| 3 | Sand | 46 | 0.84 | 9.7 | 16.4 | 5.1 | 11.8 | 1.66 | 1.11 | 92.61 |
| 4 | Bedrock | 55.6 | 0.91 | 11.6 | 18.3 | 7.5 | 1.3 | 2.74 | 2.06 | 100.01 |
| 5 | Bedrock | 55 | 0.93 | 12.6 | 18.6 | 7.4 | 1.3 | 2.87 | 2.4 | 101.1 |
| 6 | Bedrock | 54.7 | 0.98 | 10 | 19 | 7 | 1.5 | 2.92 | 1.65 | 97.75 |
| 7 | Sand | 46 | 0.86 | 10.4 | 20.2 | 7.4 | 5.4 | 2.37 | 0.77 | 93.4 |
| 8 | Bedrock | 57.9 | 1.1 | 11.9 | 19 | 5.5 | 1.2 | 2.75 | 2.93 | 102.28 |
| 9 | Bedrock | 57.9 | 0.93 | 12.4 | 19.6 | 5.2 | 1 | 2.56 | 2.94 | 102.53 |



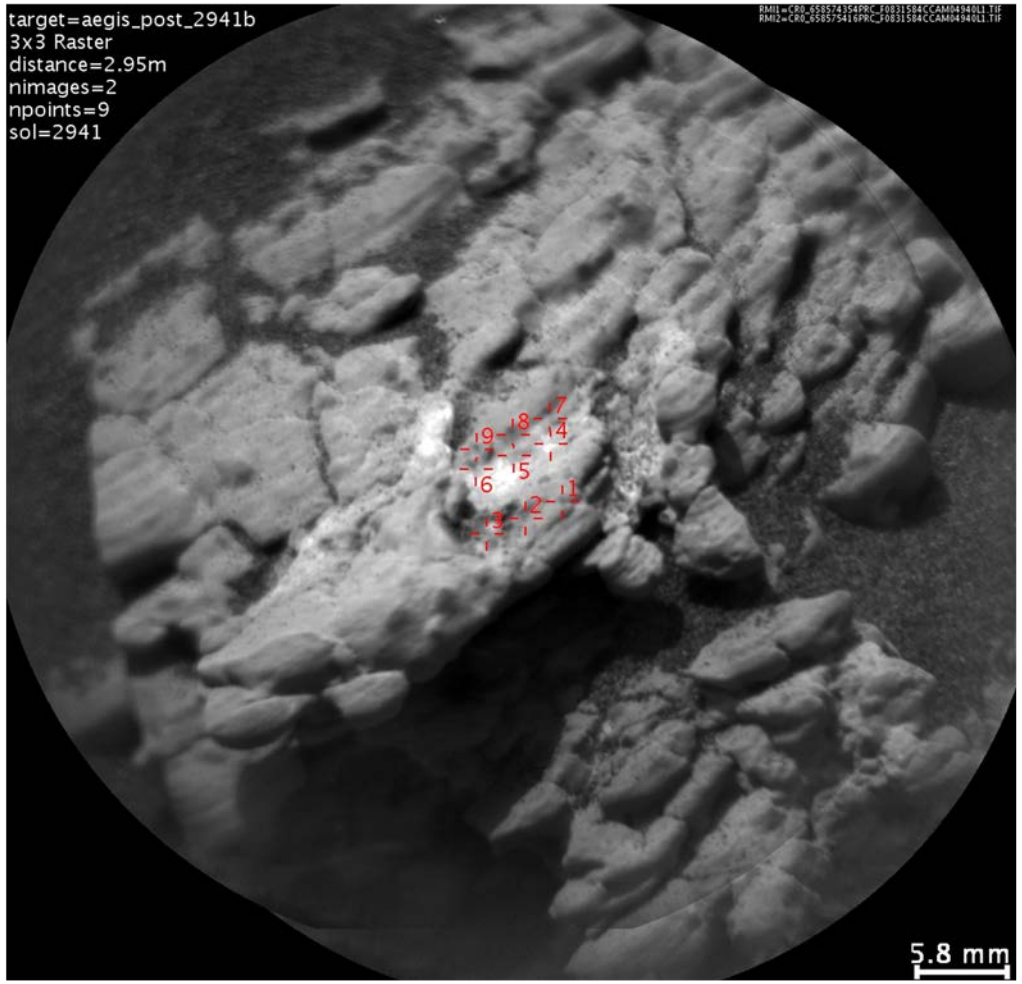



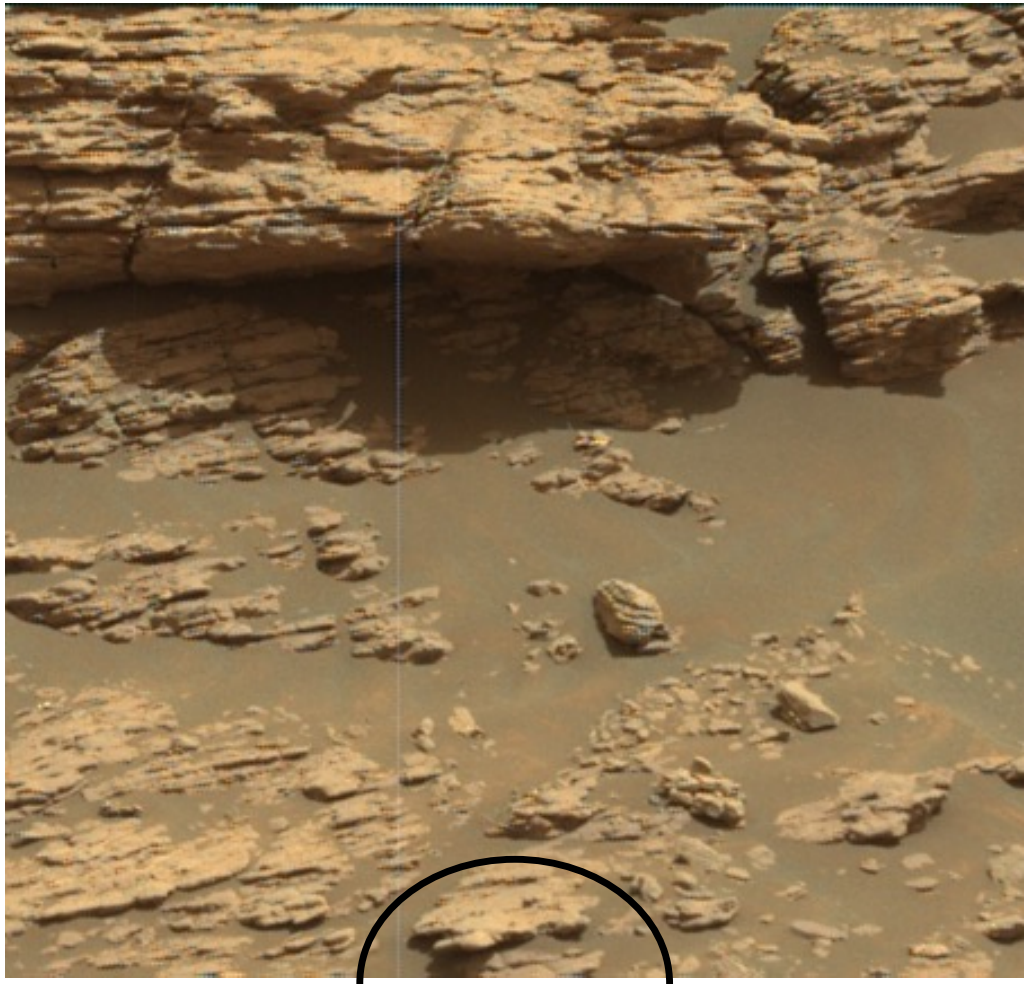
# Target: aegis_post_2941b

**Sol:** 2940
**Elev (m.):** -4111.91414719031
**CCAM Sequence ID:** CCAM04940

**Whole Target Classification:** Bedrock
**Lamination Strength:** Moderately Laminated
**Lamination Expression:** Primary Stratification
**Grain Visibility:** Below RMI Image Resolution
**Bedrock Appearance:** Dull
**Nodule Presence:** Absent
**Nodule Diameter:** Absent
**Nodule Resistance:** Absent
**Fracture Presence:** Occasional (<10% by Visual Inspection)

| # | Feature | SiO2 (wt%) | TiO2 (wt%) | Al2O3 (wt%) | FeOT (wt%) | MgO (wt%) | CaO (wt%) | Na2O (wt%) | K2O (wt%) | Sum of Oxides (wt%) |
|---|---|---|---|---|---|---|---|---|---|---|
| 1 | Bedrock | 55.8 | 1.06 | 11.5 | 18.6 | 7.2 | 1.8 | 2.6 | 1.82 | 100.38 |
| 2 | Bedrock | 57 | 1.22 | 10.9 | 17.9 | 7.2 | 1.3 | 2.58 | 2.08 | 100.18 |
| 3 | Bedrock | 55.7 | 0.9 | 11.5 | 18 | 7.3 | 1.4 | 2.55 | 1.88 | 99.23 |
| 4 | Vein or Fracture | 43 | 0.68 | 8.5 | 13.5 | 4 | 16.8 | 1.18 | 0.8 | 88.46 |
| 5 | Vein or Fracture | 51.7 | 0.85 | 10.4 | 17.3 | 6.6 | 6 | 2.31 | 1.14 | 96.3 |
| 6 | Vein or Fracture | 50.7 | 0.89 | 10.4 | 17.8 | 6 | 6.9 | 1.96 | 1.31 | 95.96 |
| 7 | Bedrock | 55.1 | 0.94 | 12.8 | 17.5 | 7.3 | 1.7 | 2.65 | 1.74 | 99.73 |
| 8 | Bedrock | 56.1 | 0.87 | 12.5 | 18.2 | 6.9 | 1.6 | 2.65 | 1.9 | 100.72 |
| 9 | Bedrock | 56.8 | 1.09 | 11.8 | 18.1 | 7.5 | 1.5 | 2.71 | 2 | 101.5 |



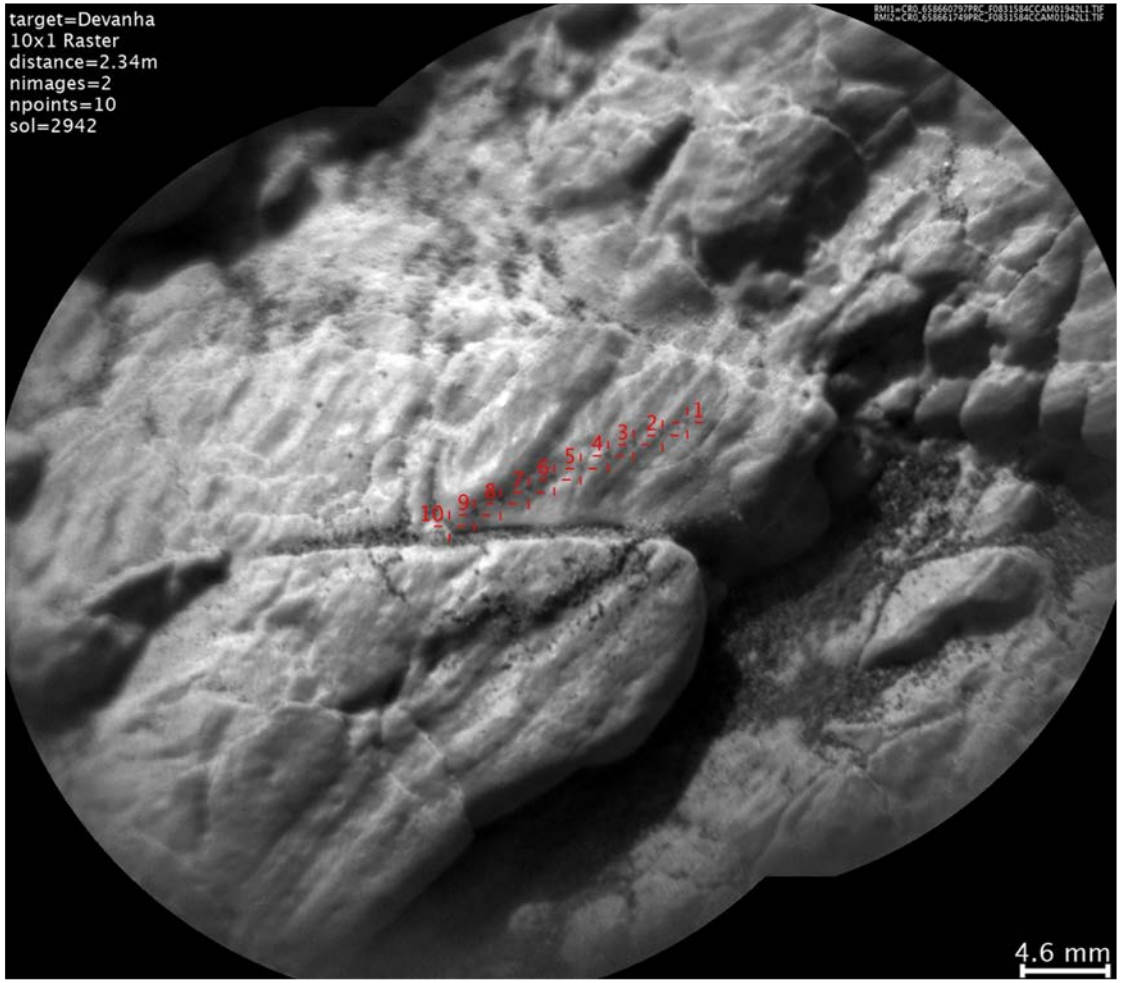



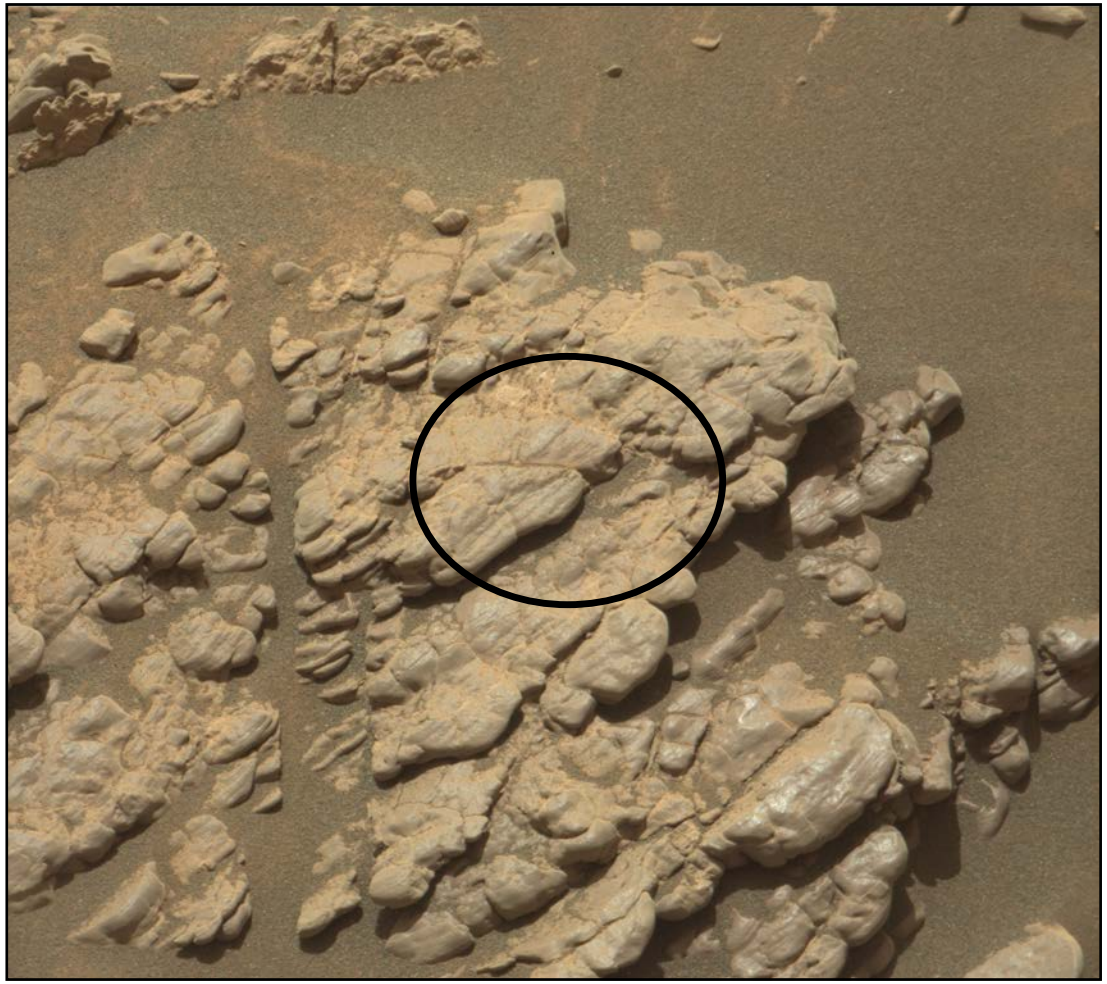
# Target: Devanha

**Sol:** 2942
**Elev (m.):** -4112.08012459609
**CCAM Sequence ID:** CCAM01942

**Whole Target Classification:** Bedrock
**Lamination Strength:** Moderately Laminated
**Lamination Expression:** Primary Stratification
**Grain Visibility:** Below RMI Image Resolution
**Bedrock Appearance:** Dull
**Nodule Presence:** Absent
**Nodule Diameter:** Absent
**Nodule Resistance:** Absent
**Fracture Presence:** Occasional (<10% by Visual Inspection)

| # | Feature | SiO2 (wt%) | TiO2 (wt%) | Al2O3 (wt%) | FeOT (wt%) | MgO (wt%) | CaO (wt%) | Na2O (wt%) | K2O (wt%) | Sum of Oxides (wt%) |
|---|---|---|---|---|---|---|---|---|---|---|
| 1 | Bedrock | 54.4 | 0.88 | 10.2 | 17.9 | 7.7 | 1.1 | 2.14 | 1.62 | 95.94 |
| 2 | Bedrock | 54.5 | 0.87 | 11 | 17.8 | 7.3 | 1.2 | 2.32 | 1.75 | 96.74 |
| 3 | Bedrock | 54.7 | 0.86 | 11 | 17.7 | 7.4 | 1.2 | 2.38 | 1.63 | 96.87 |
| 4 | Bedrock | 54.6 | 1.08 | 10.3 | 17.6 | 7 | 1.1 | 2.32 | 1.76 | 95.76 |
| 5 | Bedrock | 50 | 0.88 | 9.4 | 18.6 | 6.3 | 4.7 | 1.81 | 1.38 | 93.07 |
| 6 | Bedrock | 54 | 0.95 | 11 | 18.1 | 7.5 | 1.4 | 2.2 | 1.52 | 96.67 |
| 7 | Bedrock | 54.3 | 0.88 | 11 | 17.9 | 7.5 | 1.2 | 2.32 | 1.77 | 96.87 |
| 8 | Bedrock | 53.9 | 0.88 | 11 | 18.1 | 8 | 1.2 | 2.25 | 1.67 | 97 |
| 9 | Bedrock | 53.7 | 0.87 | 11.1 | 18.1 | 8.1 | 1.3 | 2.19 | 1.58 | 96.94 |
| 10 | Bedrock | 54.7 | 1.11 | 11 | 18.8 | 7.3 | 1.5 | 2.31 | 1.65 | 98.37 |



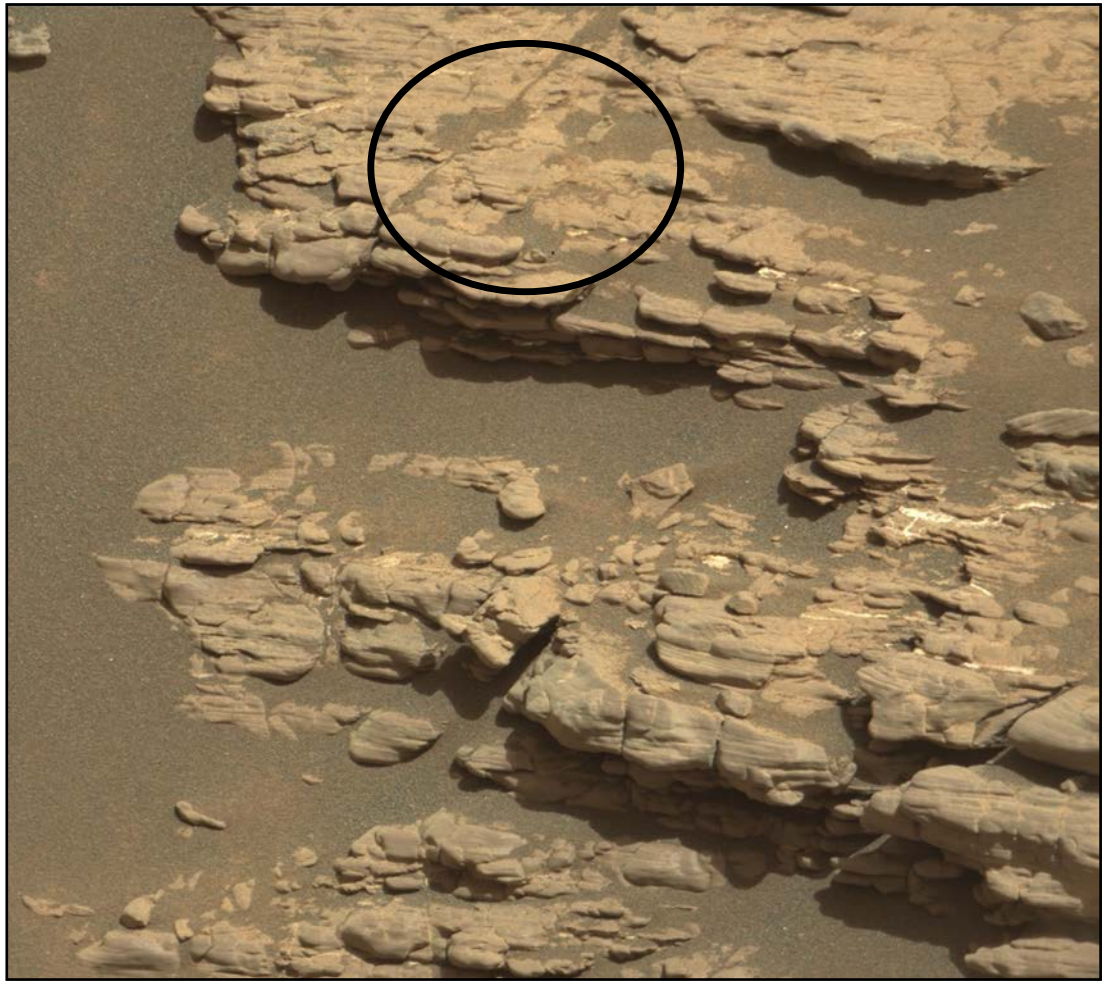



# Target: Clickimin

**Sol:** 2942
**Elev (m.):** -4111.98008378743
**CCAM Sequence ID:** CCAM02942

**Whole Target Classification:** Bedrock
**Lamination Strength:** Moderately Laminated
**Lamination Expression:** Primary Stratification
**Grain Visibility:** Above RMI Image Resolution
**Bedrock Appearance:** Dull
**Nodule Presence:** Absent
**Nodule Diameter:** Absent
**Nodule Resistance:** Absent
**Fracture Presence:** Occasional (<10% by Visual Inspection)

| # | Feature | SiO2 (wt%) | TiO2 (wt%) | Al2O3 (wt%) | FeOT (wt%) | MgO (wt%) | CaO (wt%) | Na2O (wt%) | K2O (wt%) | Sum of Oxides (wt%) |
|---|---|---|---|---|---|---|---|---|---|---|
| 1 | Bedrock | 48.3 | 0.83 | 9.9 | 18.6 | 7.6 | 6.6 | 1.78 | 0.98 | 94.59 |
| 2 | Bedrock | 52 | 0.82 | 11.1 | 18.3 | 8.4 | 1.4 | 2.47 | 1.55 | 96.04 |
| 3 | Bedrock | 46.5 | 0.86 | 8.8 | 20.8 | 5.1 | 1 | 2.28 | 1.2 | 86.54 |
| 4 | Bedrock | 54.4 | 0.91 | 11.2 | 16.6 | 9.3 | 2.3 | 2.37 | 1.3 | 98.38 |
| 5 | Bedrock | 54.8 | 0.96 | 10.6 | 17.1 | 9.6 | 1.4 | 2.19 | 1.29 | 97.94 |
| 6 | Bedrock | 54.1 | 0.84 | 10.7 | 17.7 | 8.3 | 1.6 | 2.25 | 1.49 | 96.98 |
| 7 | Bedrock | 55.1 | 0.82 | 10.3 | 17 | 9.2 | 1.3 | 2.31 | 1.5 | 97.53 |
| 8 | Bedrock | 54.9 | 0.86 | 9.9 | 17.6 | 9.3 | 1.1 | 2.34 | 1.41 | 97.41 |
| 9 | Bedrock | 54 | 1.04 | 9.8 | 16.8 | 10.3 | 1.3 | 2.46 | 1.18 | 96.88 |
| 10 | Bedrock | 54.9 | 0.89 | 11.6 | 17.3 | 8.8 | 1.4 | 2.63 | 1.43 | 98.95 |

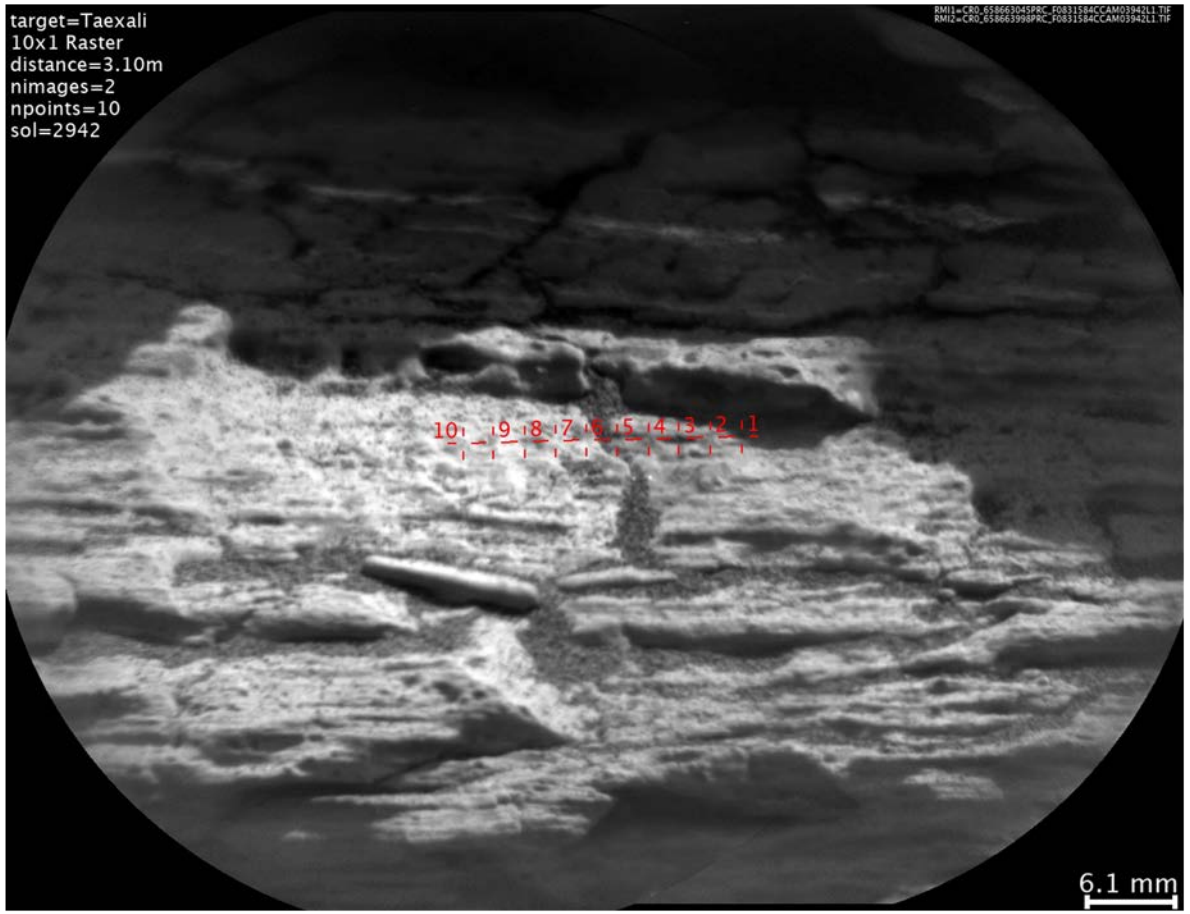


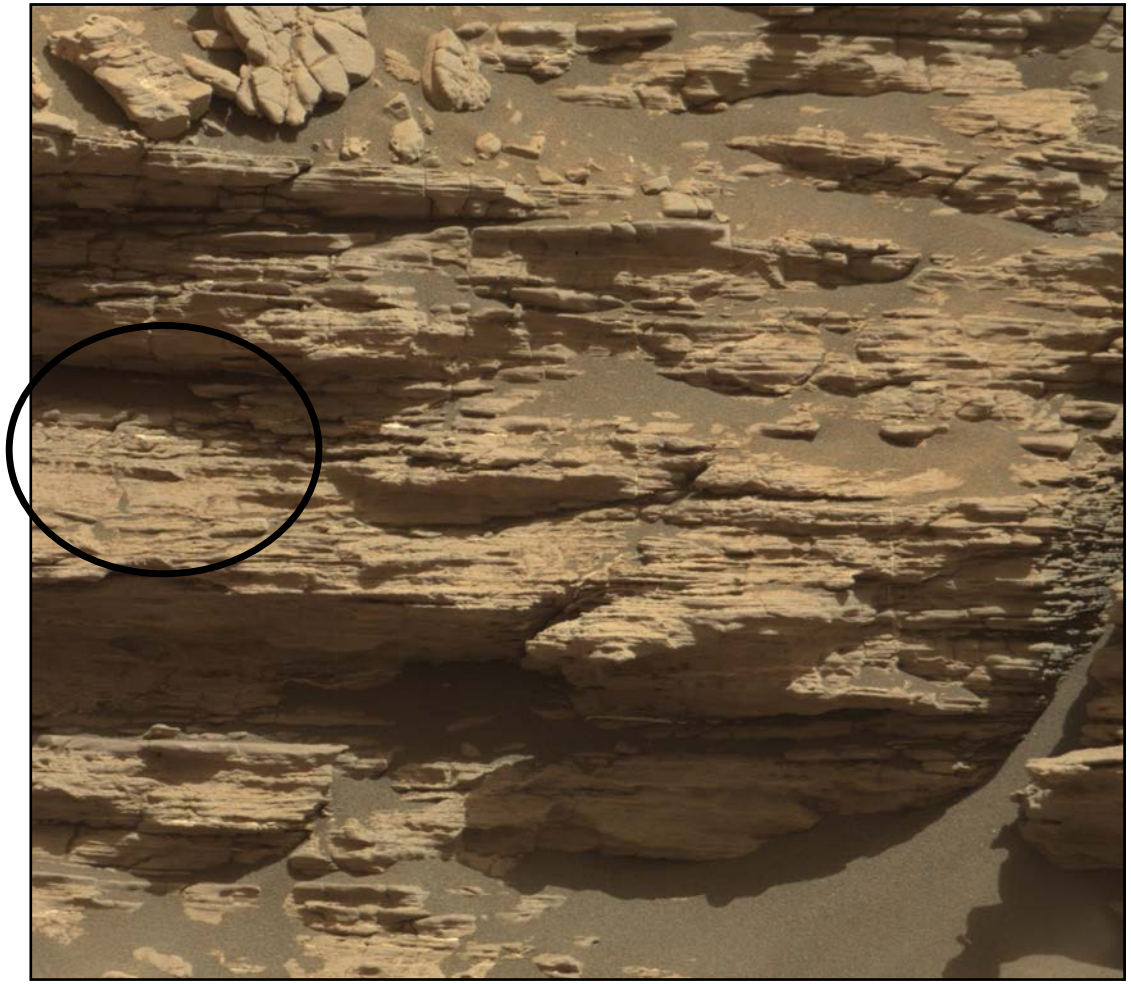
# Target: Taexali

**Sol:** 2942
**Elev (m.):** -4111.47418859722
**CCAM Sequence ID:** CCAM03942

**Whole Target Classification:** Bedrock
**Lamination Strength:** Moderately Laminated
**Lamination Expression:** Primary Stratification
**Grain Visibility:** Above RMI Image Resolution
**Bedrock Appearance:** Dull
**Nodule Presence:** Absent
**Nodule Diameter:** Absent
**Nodule Resistance:** Absent
**Fracture Presence:** Common (~10-20% by Visual Inspection)

| # | Feature | SiO2 (wt%) | TiO2 (wt%) | Al2O3 (wt%) | FeOT (wt%) | MgO (wt%) | CaO (wt%) | Na2O (wt%) | K2O (wt%) | Sum of Oxides (wt%) |
|---|---|---|---|---|---|---|---|---|---|---|
| 1 | Bedrock | 55 | 0.88 | 11.2 | 17.3 | 8.4 | 1.8 | 2.6 | 1.73 | 98.91 |
| 2 | Bedrock | 56.8 | 0.99 | 12 | 17.9 | 8.2 | 1.7 | 2.72 | 1.71 | 102.02 |
| 3 | Bedrock | 55.3 | 0.93 | 12.3 | 18.1 | 9.1 | 1.4 | 2.7 | 1.82 | 101.65 |
| 4 | Bedrock | 51.2 | 0.85 | 11 | 17.2 | 7.4 | 7.9 | 2.43 | 1.46 | 99.44 |
| 5 | Bedrock | 55.1 | 0.95 | 12.8 | 17.2 | 8.7 | 2.2 | 2.66 | 1.46 | 101.07 |
| 6 | Bedrock | 55.4 | 1.07 | 12.5 | 16.9 | 8.5 | 1.9 | 2.55 | 1.31 | 100.13 |
| 7 | Bedrock | 56.3 | 1.09 | 13.8 | 17.6 | 8.1 | 3.6 | 2.61 | 1.36 | 104.46 |
| 8 | Bedrock | 54.8 | 1.03 | 11.4 | 17.7 | 8.2 | 2.2 | 2.57 | 1.63 | 99.53 |
| 9 | Bedrock | 54.8 | 1.04 | 12.1 | 18.5 | 8.7 | 1.6 | 2.61 | 1.52 | 100.87 |
| 10 | Bedrock | 55.8 | 0.99 | 12.7 | 17.2 | 8.6 | 2 | 2.7 | 1.66 | 101.65 |



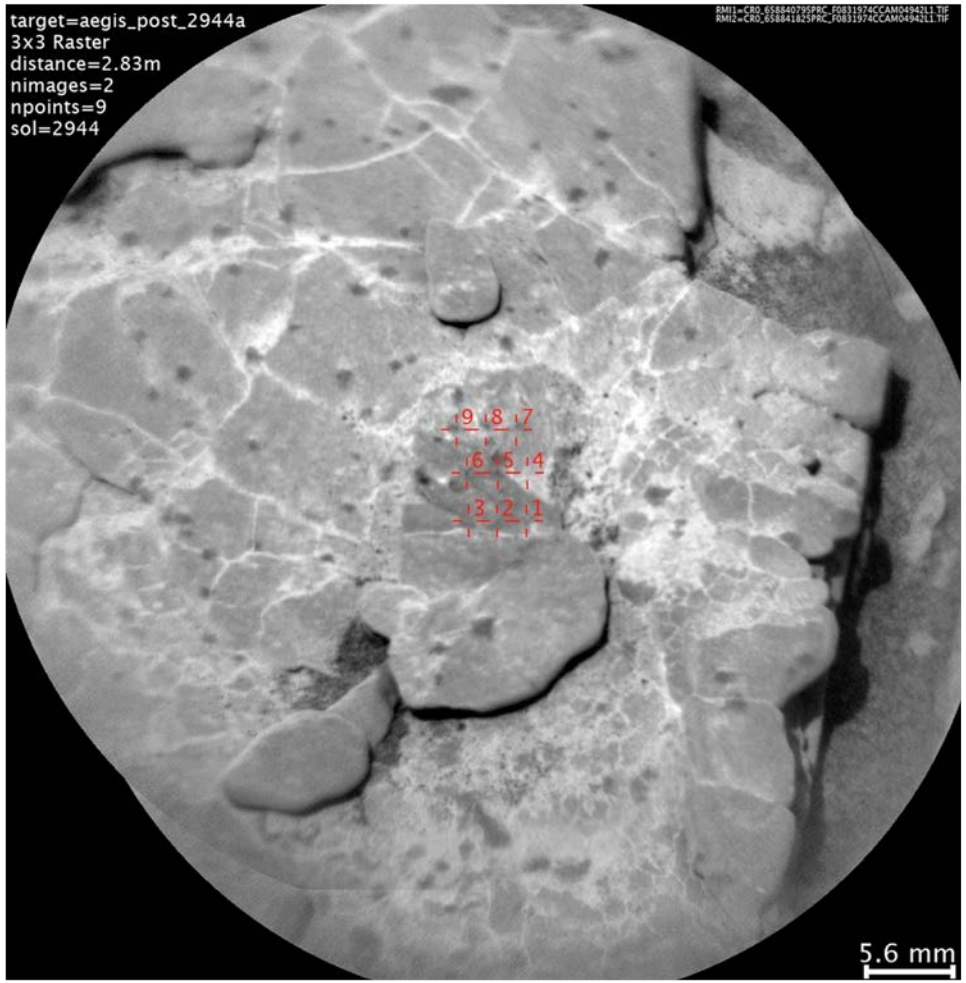
# Target: aegis_post_2944a

**Sol:** 2942

**Elev (m.):**

**CCAM Sequence ID:** CCAM04942

**Whole Target Classification:** Bedrock
**Lamination Strength:** Absent
**Lamination Expression:** Absent
**Grain Visibility:** Below RMI Image Resolution
**Bedrock Appearance:** Dull
**Nodule Presence:** Occasional (~10% by Visual Inspection)
**Nodule Diameter:** Small (<1 mm)
**Nodule Resistance:** Protruding
**Fracture Presence:** Pervasive (>20% by Visual Inspection)



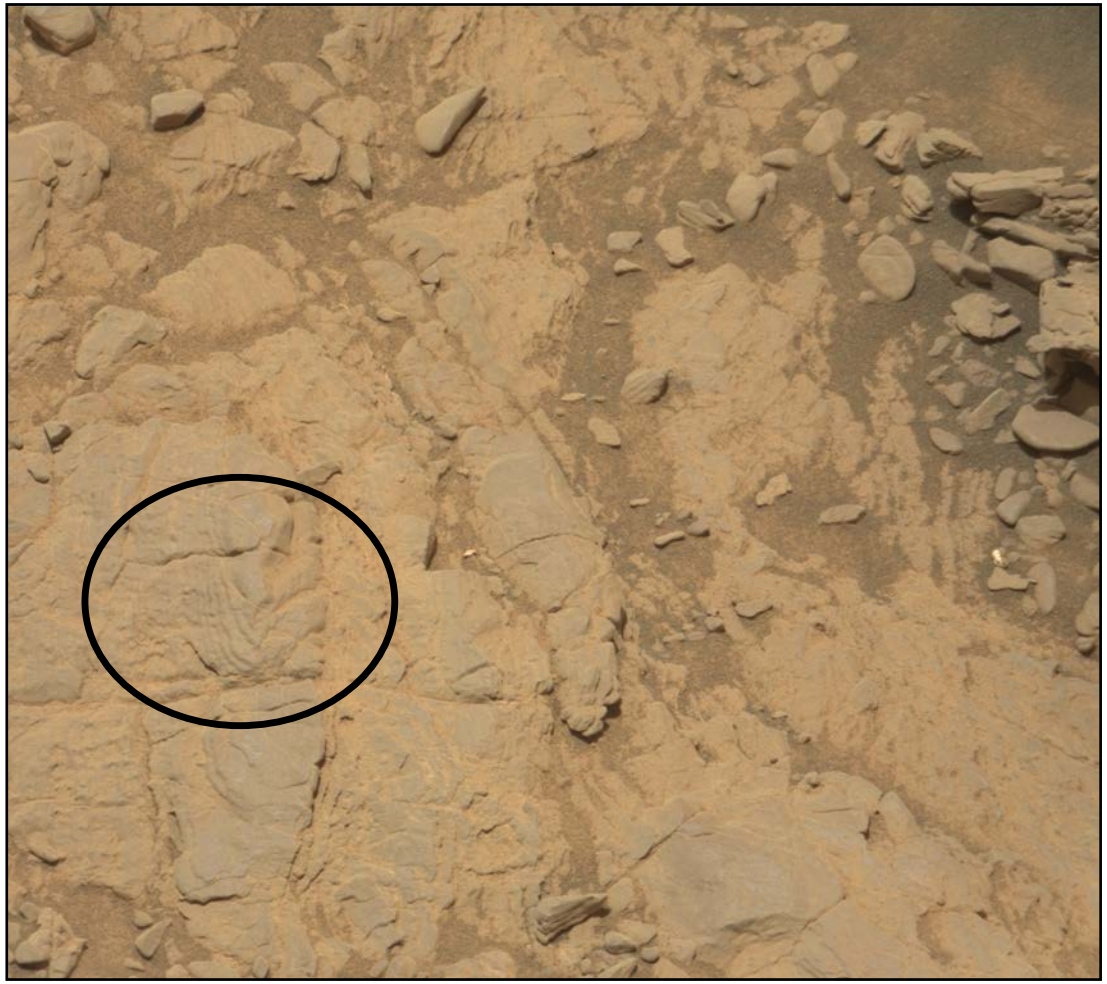

| # | Feature | SiO2 (wt%) | TiO2 (wt%) | Al2O3 (wt%) | FeOT (wt%) | MgO (wt%) | CaO (wt%) | Na2O (wt%) | K2O (wt%) | Sum of Oxides (wt%) |
|---|---|---|---|---|---|---|---|---|---|---|
| 1 | Bedrock | 54.5 | 0.9 | 12.7 | 16.7 | 8.6 | 2.1 | 2.24 | 1.3 | 99.04 |
| 2 | Bedrock | 56 | 0.89 | 12.1 | 17.8 | 7.3 | 1.4 | 2.54 | 1.86 | 99.89 |
| 3 | Bedrock | 54.8 | 1 | 12 | 17.9 | 8.1 | 1.4 | 2.48 | 1.66 | 99.34 |
| 4 | Bedrock | 54.1 | 0.99 | 11.9 | 17.3 | 9.2 | 1.8 | 2.63 | 1.65 | 99.57 |
| 5 | Bedrock | 56.1 | 0.9 | 11.3 | 17.6 | 7.7 | 1.4 | 2.46 | 1.88 | 99.34 |
| 6 | Bedrock | 53.5 | 1.04 | 13.4 | 17.8 | 8.1 | 2.3 | 2.58 | 1.59 | 100.31 |
| 7 | Bedrock | 55.4 | 0.87 | 12.6 | 18.1 | 7.4 | 1.4 | 2.6 | 2 | 100.37 |
| 8 | Bedrock | 55.1 | 1.09 | 11.3 | 17.5 | 8 | 1.6 | 2.57 | 1.91 | 99.07 |
| 9 | Bedrock | 55.4 | 0.92 | 12.7 | 17.5 | 8.1 | 1.5 | 2.49 | 1.63 | 100.24 |

# Target: Ingliston_ccam

**Sol:** 2945
**Elev (m.):** -4110.34528222312
**CCAM Sequence ID:** CCAM01945

**Whole Target Classification:** Bedrock
**Lamination Strength:** Weakly Laminated
**Lamination Expression:** Primary Stratification
**Grain Visibility:** Below RMI Image Resolution
**Bedrock Appearance:** Dull
**Nodule Presence:** Absent
**Nodule Diameter:** Absent
**Nodule Resistance:** Absent
**Fracture Presence:** Occasional (<10% by Visual Inspection)

| # | Feature | SiO2 (wt%) | TiO2 (wt%) | Al2O3 (wt%) | FeOT (wt%) | MgO (wt%) | CaO (wt%) | Na2O (wt%) | K2O (wt%) | Sum of Oxides (wt%) |
|---|---|---|---|---|---|---|---|---|---|---|
| 1 | Bedrock | 54.6 | 1.12 | 11.4 | 17.6 | 7.8 | 1.9 | 2.52 | 1.76 | 98.7 |
| 2 | Bedrock | 54.5 | 1 | 11.1 | 17.9 | 7.3 | 1.7 | 2.38 | 2 | 97.88 |
| 3 | Bedrock | 54.7 | 0.86 | 11.3 | 17.5 | 7.6 | 1.4 | 2.46 | 1.95 | 97.77 |
| 4 | Bedrock | 54.3 | 0.92 | 11.3 | 17.5 | 7.8 | 1.8 | 2.43 | 1.8 | 97.85 |
| 5 | Bedrock | 54.2 | 0.94 | 11.4 | 18 | 8 | 1.8 | 2.3 | 1.58 | 98.22 |

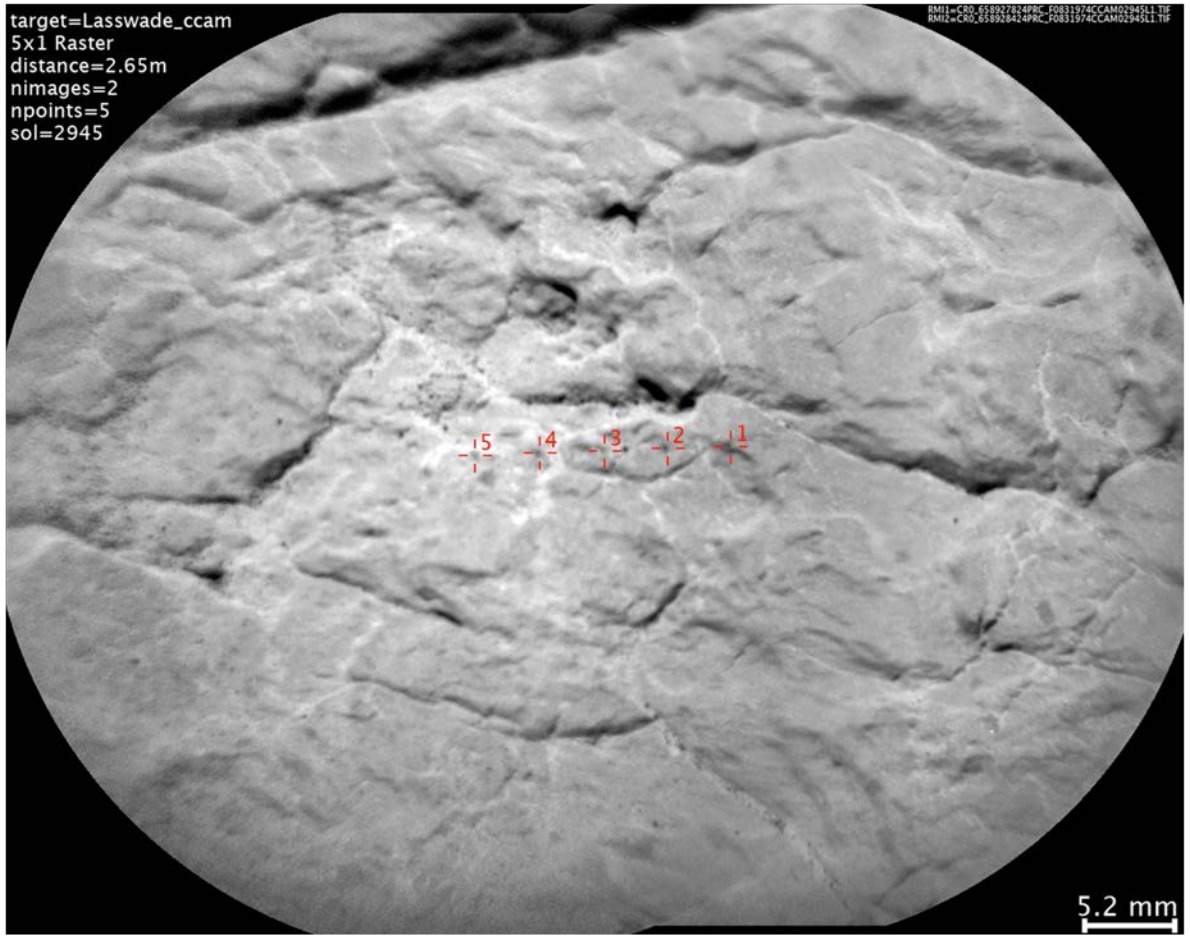


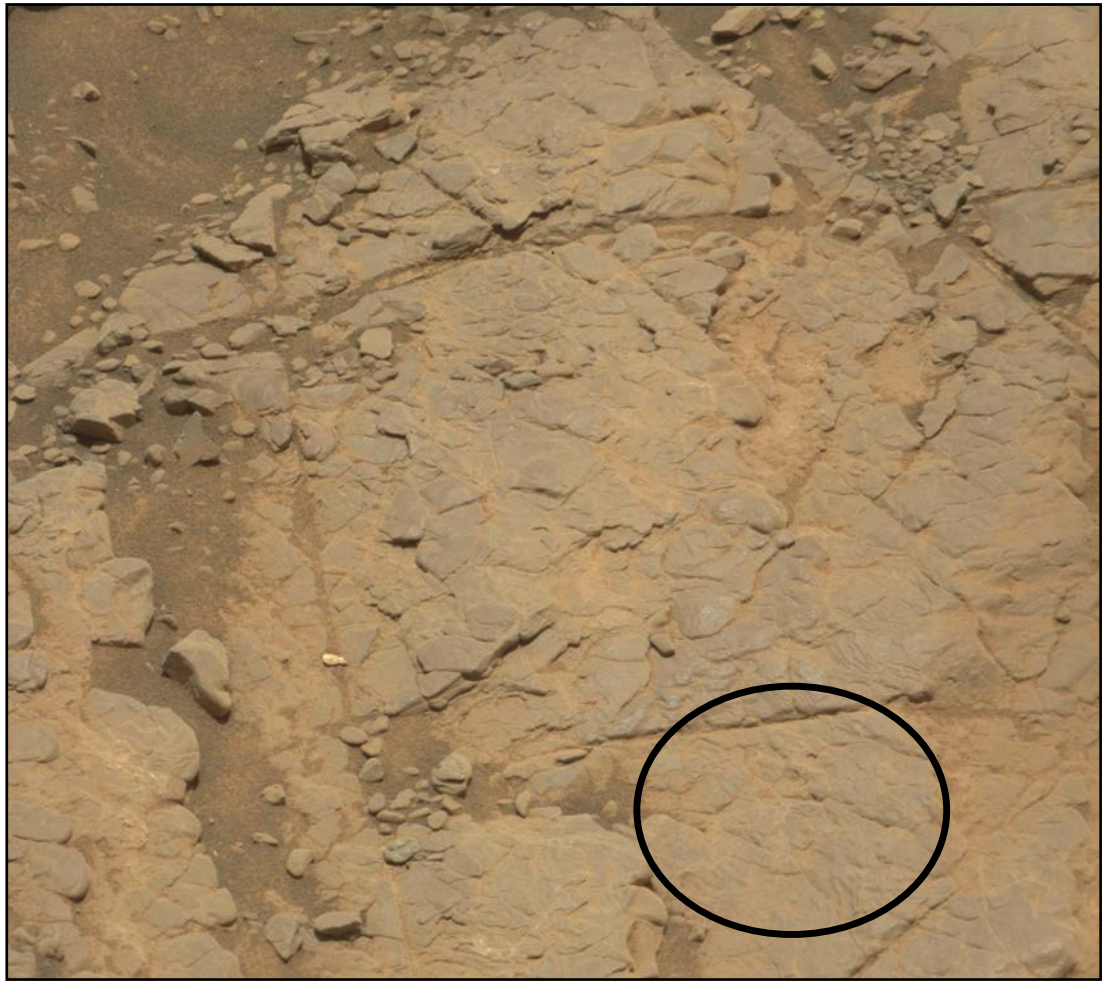
# Target: Lasswade_ccam

**Sol:** 2945
**Elev (m.):** -4110.33761627232
**CCAM Sequence ID:** CCAM02945

**Whole Target Classification:** Bedrock
**Lamination Strength:** Absent
**Lamination Expression:** Absent
**Grain Visibility:** Below RMI Image Resolution
**Bedrock Appearance:** Dull
**Nodule Presence:** Absent
**Nodule Diameter:** Absent
**Nodule Resistance:** Absent
**Fracture Presence:** Occasional (<10% by Visual Inspection)

| # | Feature | SiO2 (wt%) | TiO2 (wt%) | Al2O3 (wt%) | FeOT (wt%) | MgO (wt%) | CaO (wt%) | Na2O (wt%) | K2O (wt%) | Sum of Oxides (wt%) |
|---|---|---|---|---|---|---|---|---|---|---|
| 1 | Bedrock | 55.8 | 0.89 | 11.4 | 18 | 7.1 | 1.4 | 2.35 | 2.21 | 99.15 |
| 2 | Bedrock | 55 | 0.96 | 10.9 | 18.5 | 8.1 | 1.6 | 2.17 | 1.75 | 98.98 |
| 3 | Vein or Fracture | 54 | 1.08 | 9.7 | 17.5 | 7.4 | 2.8 | 2.18 | 1.77 | 96.43 |
| 4 | Vein or Fracture | 49.7 | 0.91 | 11.1 | 17.2 | 6.2 | 6.9 | 2.02 | 1.44 | 95.47 |
| 5 | Vein or Fracture | 48.2 | 0.83 | 9.2 | 16.7 | 5.3 | 9.2 | 1.91 | 1.55 | 92.89 |



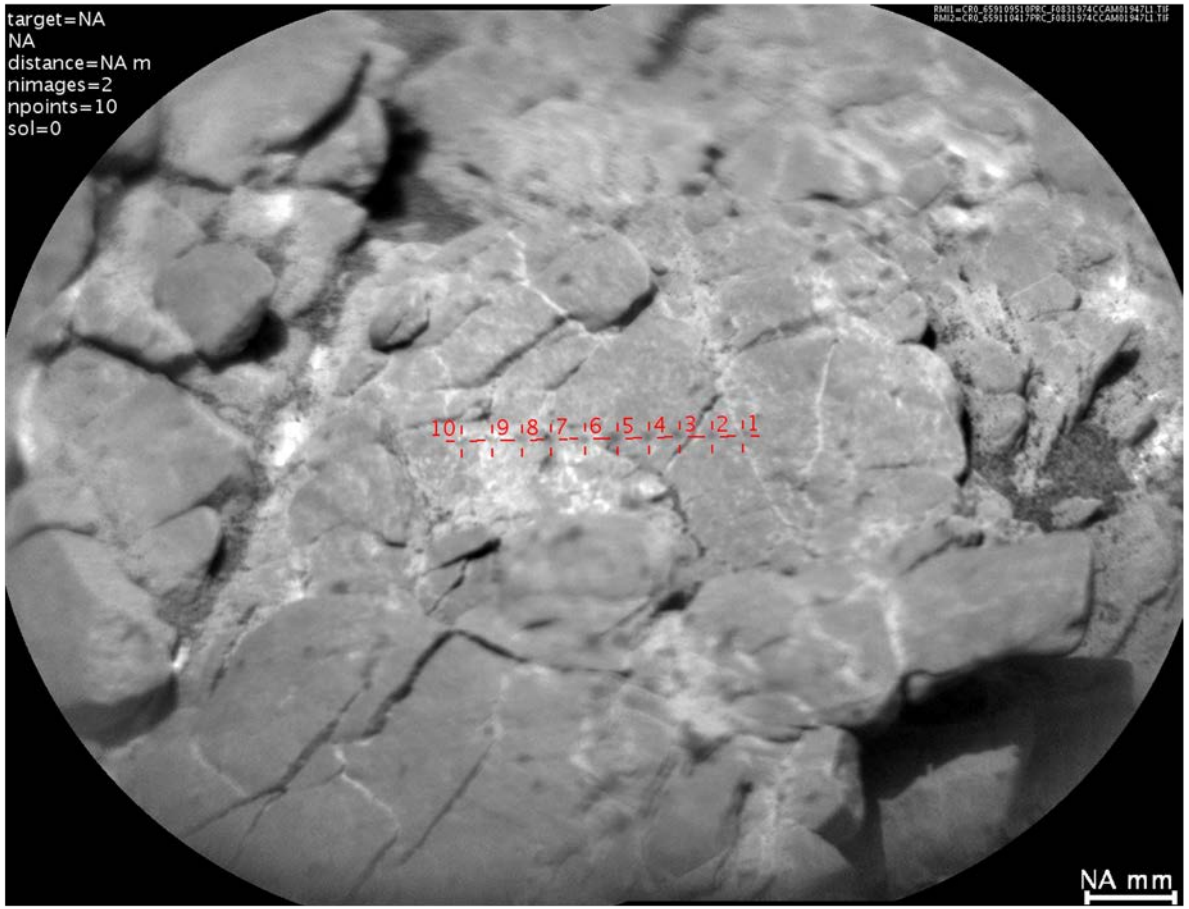



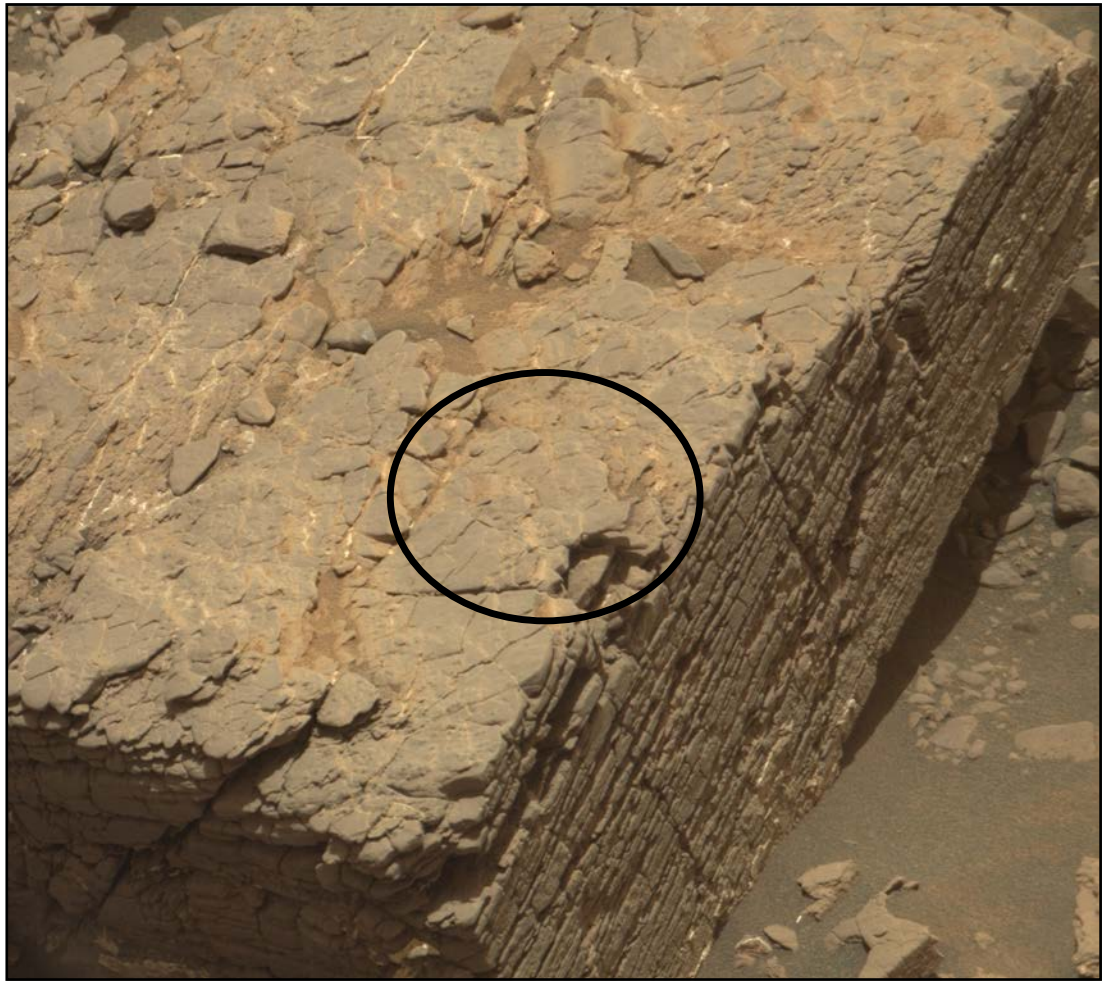
# Target: Drid_Geo

**Sol:** 2947
**Elev (m.):** -4110.2502234986
**CCAM Sequence ID:** CCAM01947

**Whole Target Classification:** Bedrock
**Lamination Strength:** Absent
**Lamination Expression:** Absent
**Grain Visibility:** Below RMI Image Resolution
**Bedrock Appearance:** Dull
**Nodule Presence:** Absent
**Nodule Diameter:** Absent
**Nodule Resistance:** Absent
**Fracture Presence:** Common (~10-20% by Visual Inspection)

| # | Feature | SiO2 (wt%) | TiO2 (wt%) | Al2O3 (wt%) | FeOT (wt%) | MgO (wt%) | CaO (wt%) | Na2O (wt%) | K2O (wt%) | Sum of Oxides (wt%) |
|---|---|---|---|---|---|---|---|---|---|---|
| 1 | Vein or Fracture | 40.1 | 0.71 | 6.6 | 13.5 | 4 | 17 | 1.25 | 0.8 | 83.96 |
| 2 | Bedrock | 56 | 0.84 | 11.8 | 17.9 | 6.8 | 1.5 | 2.63 | 2.08 | 99.55 |
| 3 | Bedrock | 56.2 | 1.03 | 10.4 | 17.2 | 7.2 | 1.2 | 2.6 | 2.13 | 97.96 |
| 4 | Bedrock | 55.5 | 0.88 | 11.4 | 18.1 | 7.8 | 1.2 | 2.47 | 1.79 | 99.14 |
| 5 | Bedrock | 54.7 | 0.92 | 11.4 | 18.1 | 7.8 | 1.3 | 2.36 | 1.78 | 98.36 |
| 6 | Vein or Fracture | 52.7 | 0.84 | 10.5 | 17 | 6.5 | 4.3 | 2.43 | 1.83 | 96.1 |
| 7 | Vein or Fracture | 53.2 | 0.9 | 10.1 | 17.8 | 7.4 | 3.3 | 2.3 | 1.44 | 96.44 |
| 8 | Vein or Fracture | 49.9 | 0.9 | 9.3 | 17.7 | 6 | 7.4 | 1.85 | 1.47 | 94.52 |
| 9 | Vein or Fracture | 38.5 | 0.67 | 7.1 | 12.9 | 3.5 | 20.1 | 1.08 | 0.72 | 84.57 |
| 10 | Bedrock | 53.8 | 0.87 | 11.9 | 17.4 | 7 | 4.4 | 2.41 | 1.75 | 99.53 |



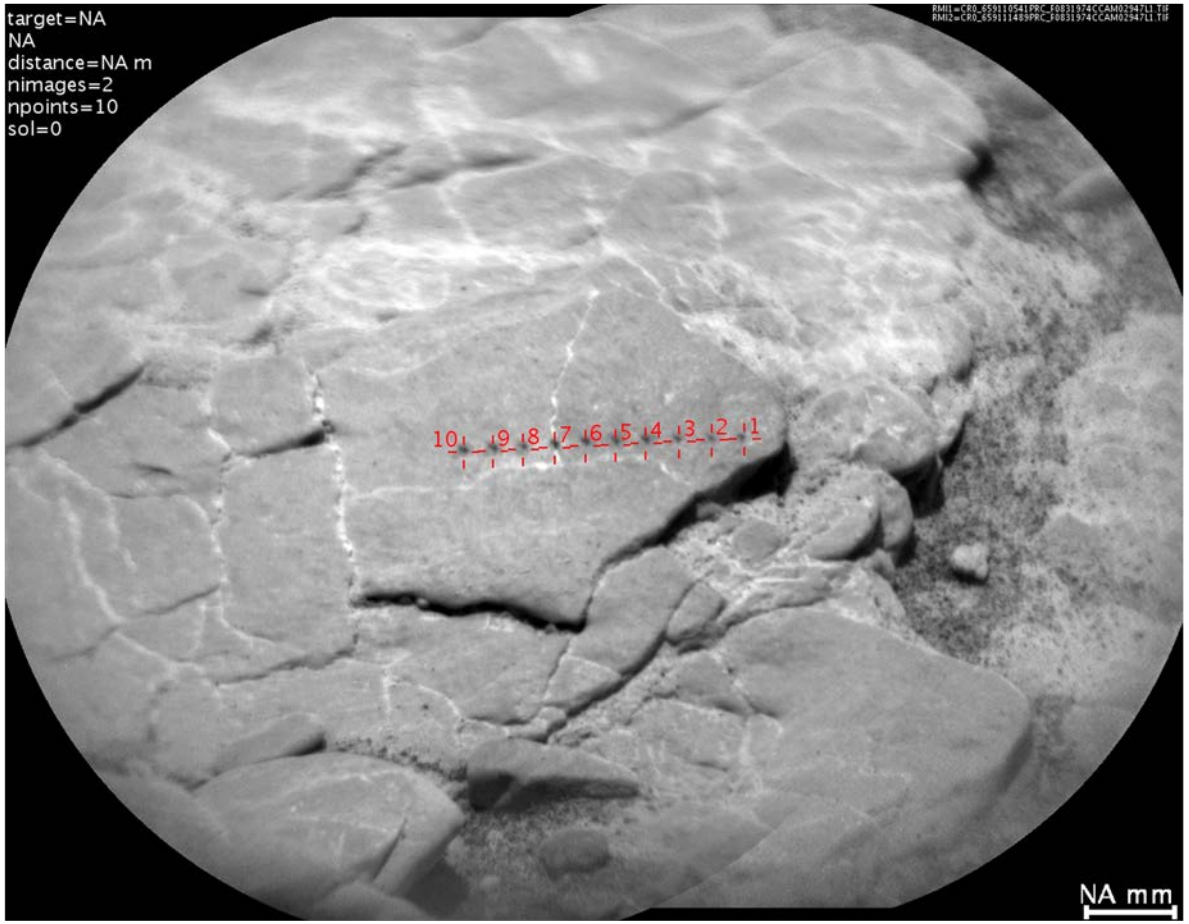



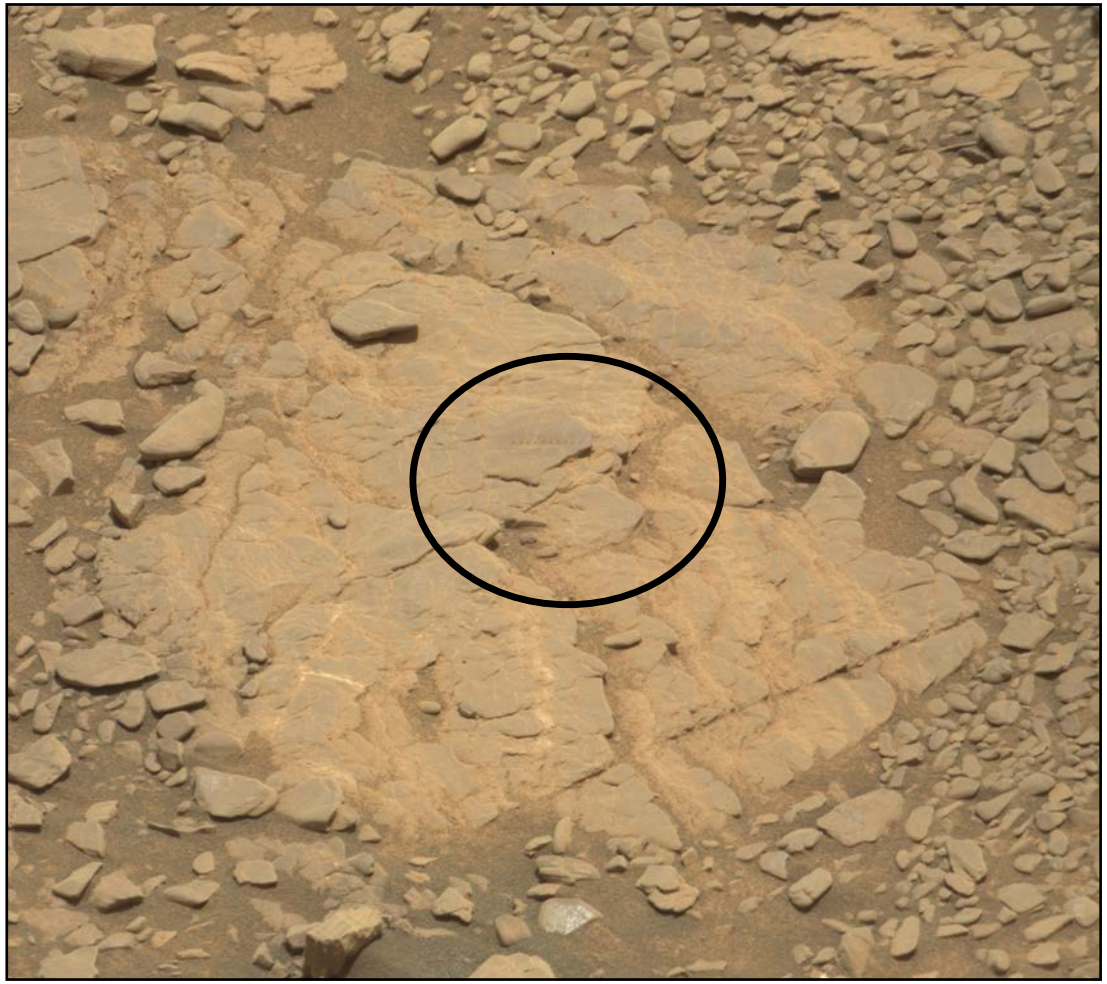
# Target: Sandsting

**Sol:** 2947
**Elev (m.):** -4110.34475436371
**CCAM Sequence ID:** CCAM02947

**Whole Target Classification:** Bedrock
**Lamination Strength:** Absent
**Lamination Expression:** Absent
**Grain Visibility:** Below RMI Image Resolution
**Bedrock Appearance:** Dull
**Nodule Presence:** Absent
**Nodule Diameter:** Absent
**Nodule Resistance:** Absent
**Fracture Presence:** Common (~10-20% by Visual Inspection)

| # | Feature | SiO2 (wt%) | TiO2 (wt%) | Al2O3 (wt%) | FeOT (wt%) | MgO (wt%) | CaO (wt%) | Na2O (wt%) | K2O (wt%) | Sum of Oxides (wt%) |
|---|---|---|---|---|---|---|---|---|---|---|
| 1 | Bedrock | 55.8 | 0.9 | 11.3 | 18.5 | 6.9 | 1.2 | 2.39 | 2.07 | 99.06 |
| 2 | Bedrock | 55.7 | 0.88 | 11.7 | 18.6 | 7.2 | 1.3 | 2.39 | 2.04 | 99.81 |
| 3 | Bedrock | 55.6 | 0.91 | 11.8 | 18.4 | 7 | 1.3 | 2.51 | 2.26 | 99.78 |
| 4 | Bedrock | 55.2 | 0.91 | 11.9 | 18.8 | 7.2 | 1.2 | 2.38 | 2.04 | 99.63 |
| 5 | Bedrock | 55.5 | 0.87 | 11.8 | 19 | 7.4 | 1.2 | 2.46 | 2.01 | 100.24 |
| 6 | Bedrock | 55.9 | 0.96 | 11.5 | 18.7 | 6.9 | 1.2 | 2.53 | 2.18 | 99.87 |
| 7 | Vein or Fracture | 54.4 | 0.86 | 12.1 | 18.8 | 7.6 | 1.5 | 2.64 | 2.18 | 100.08 |
| 8 | Bedrock | 55.8 | 0.91 | 12.2 | 18.3 | 7 | 1.4 | 2.58 | 2.04 | 100.23 |
| 9 | Bedrock | 55.7 | 0.93 | 11.7 | 19.1 | 7 | 1.2 | 2.62 | 2.21 | 100.46 |
| 10 | Bedrock | 56.5 | 1.04 | 10.8 | 17.7 | 7.3 | 1.3 | 2.44 | 2.05 | 99.13 |

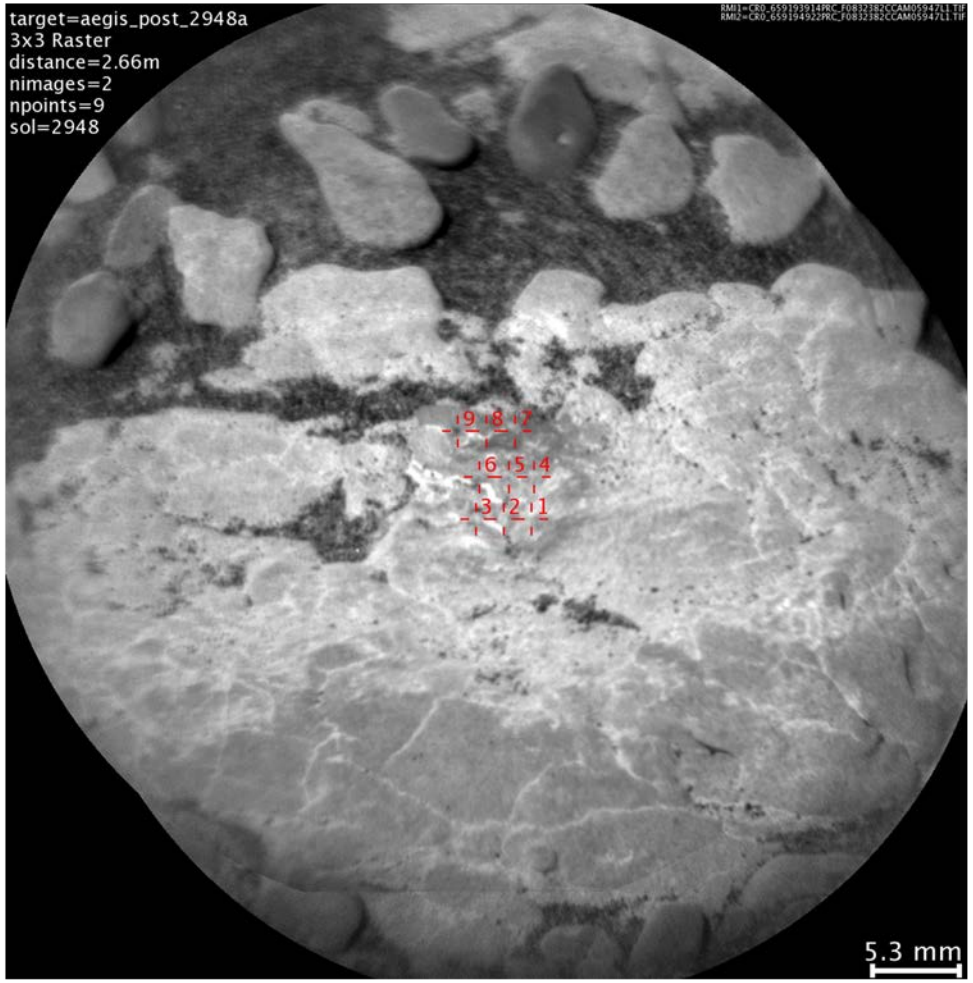


# Target: aegis_post_2948a

**Sol:** 2947
**Elev (m.):** -4109.72592827752
**CCAM Sequence ID:** CCAM05947

**Whole Target Classification:** Bedrock
**Lamination Strength:** Absent
**Lamination Expression:** Absent
**Grain Visibility:** Below RMI Image Resolution
**Bedrock Appearance:** Dull
**Nodule Presence:** Unclear
**Nodule Diameter:** Unclear
**Nodule Resistance:** Unclear
**Fracture Presence:** Common (~10-20% by Visual Inspection)



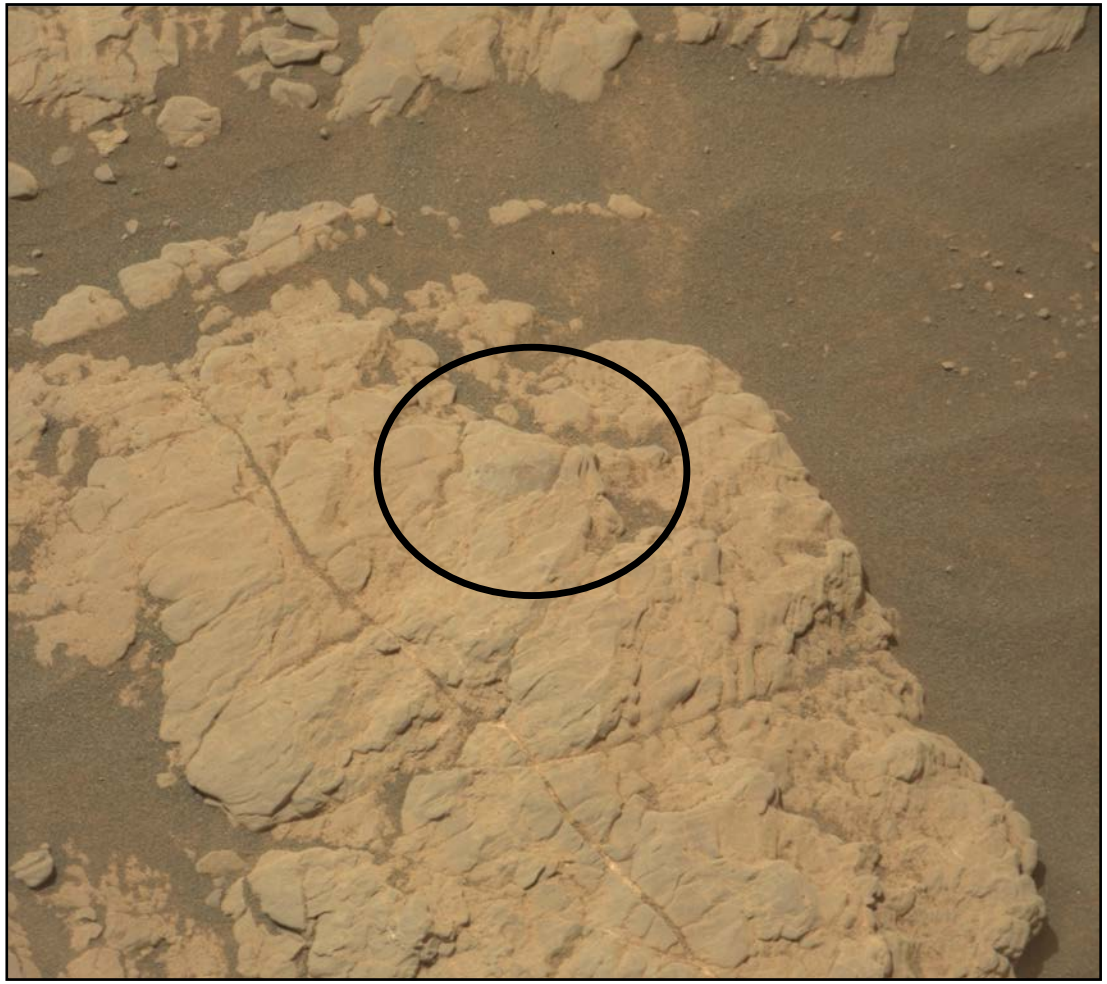

| # | Feature | SiO2 (wt%) | TiO2 (wt%) | Al2O3 (wt%) | FeOT (wt%) | MgO (wt%) | CaO (wt%) | Na2O (wt%) | K2O (wt%) | Sum of Oxides (wt%) |
|---|---|---|---|---|---|---|---|---|---|---|
| 1 | Bedrock | 54.7 | 0.89 | 12.5 | 17.2 | 9.2 | 1.8 | 2.53 | 1.3 | 100.12 |
| 2 | Bedrock | 53 | 0.82 | 10.9 | 16.6 | 10.1 | 1.9 | 2.33 | 1.25 | 96.9 |
| 3 | Bedrock | 54.3 | 1 | 11.3 | 17.1 | 8.9 | 1.8 | 2.25 | 1.23 | 97.88 |
| 4 | Bedrock | 53.9 | 0.92 | 11 | 18 | 9.7 | 2 | 2.31 | 1.5 | 99.33 |
| 5 | Bedrock | 53.9 | 1.03 | 12.6 | 18 | 9.1 | 1.7 | 2.6 | 1.51 | 100.44 |
| 6 | Bedrock | 53.3 | 0.94 | 11.2 | 18.1 | 9.9 | 1.7 | 2.38 | 1.44 | 98.96 |
| 7 | Bedrock | 53.1 | 0.78 | 12.4 | 18.1 | 9.5 | 1.3 | 2.5 | 1.54 | 99.22 |
| 8 | Bedrock | 54.1 | 1.05 | 11.2 | 17.4 | 9.1 | 1.4 | 2.54 | 1.66 | 98.45 |
| 9 | Bedrock | 54.4 | 0.9 | 12.2 | 18.5 | 9.2 | 1.4 | 2.53 | 1.76 | 100.89 |

# Target: Green_Blett

**Sol:** 2949
**Elev (m.):** -4109.55207646825
**CCAM Sequence ID:** CCAM01949

**Whole Target Classification:** Bedrock
**Lamination Strength:** Absent
**Lamination Expression:** Absent
**Grain Visibility:** Below RMI Image Resolution
**Bedrock Appearance:** Dull
**Nodule Presence:** Absent
**Nodule Diameter:** Absent
**Nodule Resistance:** Absent
**Fracture Presence:** Common (~10-20% by Visual Inspection)

| # | Feature | SiO2 (wt%) | TiO2 (wt%) | Al2O3 (wt%) | FeOT (wt%) | MgO (wt%) | CaO (wt%) | Na2O (wt%) | K2O (wt%) | Sum of Oxides (wt%) |
|---|---|---|---|---|---|---|---|---|---|---|
| 1 | Bedrock | 53.2 | 0.98 | 11.4 | 17.2 | 8.9 | 1.4 | 2.4 | 1.4 | 96.88 |
| 2 | Vein or Fracture | 49.3 | 0.85 | 9.2 | 17.9 | 8.7 | 5.5 | 1.87 | 1.16 | 94.48 |
| 3 | Bedrock | 52.5 | 0.91 | 10.6 | 17.3 | 9.9 | 1.3 | 2.13 | 1.11 | 95.75 |
| 4 | Bedrock | 54.1 | 0.92 | 11.7 | 18.2 | 8.4 | 1.2 | 2.19 | 1.25 | 97.96 |
| 5 | Bedrock | 50.5 | 0.9 | 11.2 | 17.4 | 8.2 | 4.1 | 2.17 | 1.12 | 95.59 |
| 6 | Bedrock | 51.1 | 1 | 10.7 | 17.7 | 7.9 | 4.4 | 2.08 | 1.21 | 96.09 |
| 7 | Bedrock | 53.5 | 0.82 | 10.8 | 17.7 | 9.3 | 1.5 | 2.38 | 1.3 | 97.3 |
| 8 | Bedrock | 54.4 | 0.84 | 10.3 | 17.2 | 9.3 | 1.4 | 2.29 | 1.33 | 97.06 |
| 9 | Bedrock | 54.3 | 1.15 | 9.8 | 17.4 | 10 | 1.8 | 2.08 | 1.11 | 97.64 |
| 10 | Bedrock | 54.9 | 0.86 | 9.6 | 16.4 | 8 | 1.3 | 2.32 | 1.64 | 95.02 |

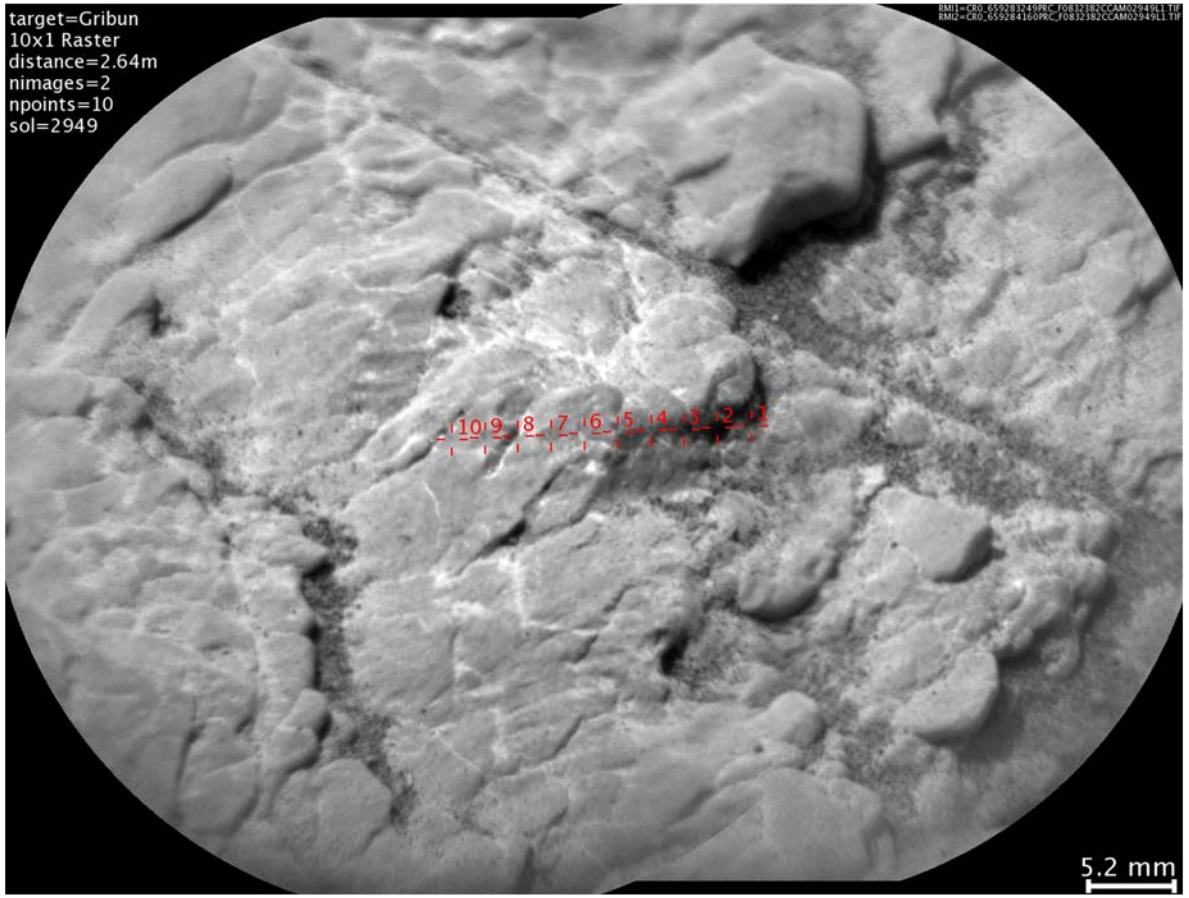


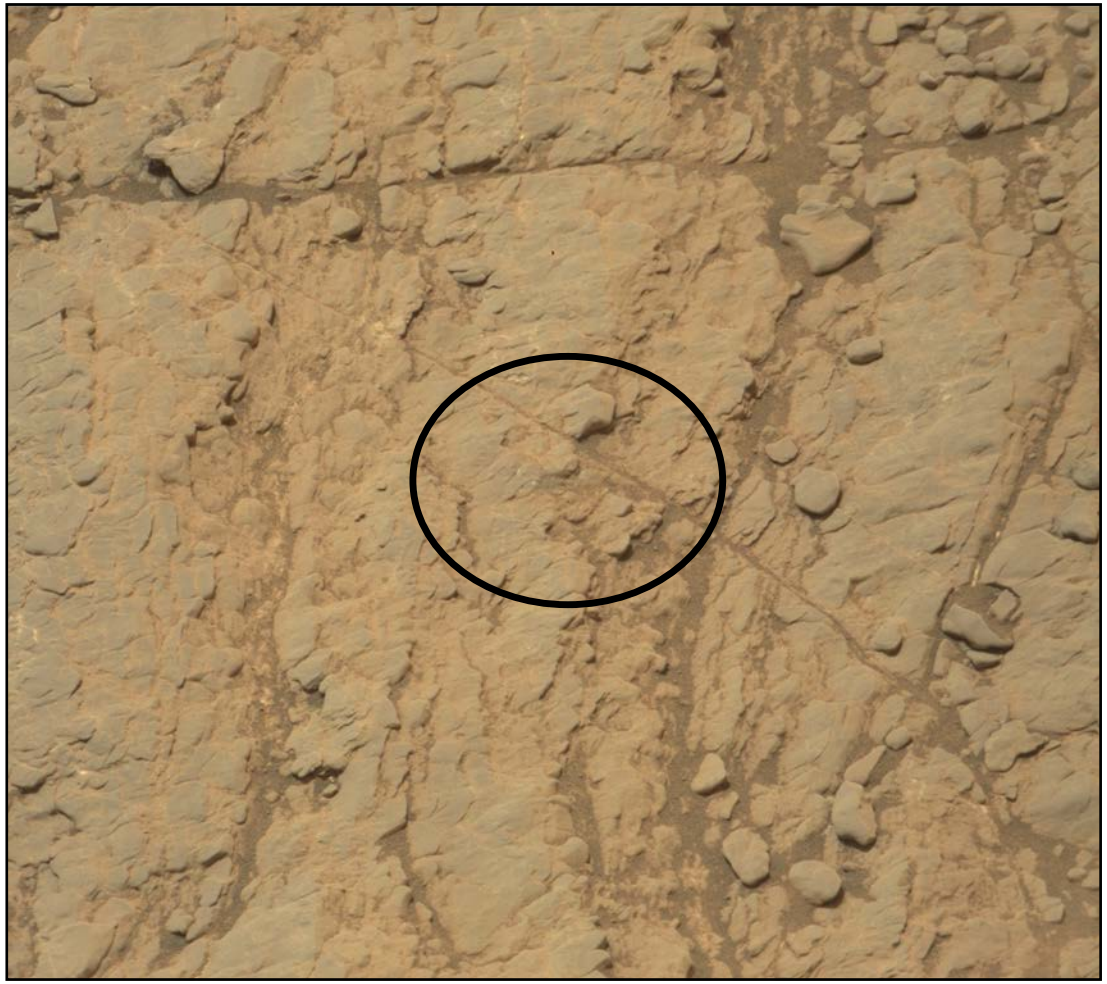
# Target: Gribun

**Sol:** 2949
**Elev (m.):** -4109.53469482569
**CCAM Sequence ID:** CCAM02949

**Whole Target Classification:** Bedrock
**Lamination Strength:** Absent
**Lamination Expression:** Absent
**Grain Visibility:** Below RMI Image Resolution
**Bedrock Appearance:** Dull
**Nodule Presence:** Absent
**Nodule Diameter:** Absent
**Nodule Resistance:** Absent
**Fracture Presence:** Pervasive (>20% by Visual Inspection)

| # | Feature | SiO2 (wt%) | TiO2 (wt%) | Al2O3 (wt%) | FeOT (wt%) | MgO (wt%) | CaO (wt%) | Na2O (wt%) | K2O (wt%) | Sum of Oxides (wt%) |
|---|---|---|---|---|---|---|---|---|---|---|
| 1 | Bedrock | 52.3 | 0.9 | 11.8 | 17.4 | 9.7 | 1.7 | 2.38 | 1.23 | 97.41 |
| 2 | Bedrock | 52.9 | 0.83 | 10.4 | 17.9 | 8.9 | 1.5 | 2.53 | 1.58 | 96.54 |
| 3 | Bedrock | 54.1 | 0.83 | 11.1 | 17.7 | 8.6 | 1.4 | 2.44 | 1.94 | 98.11 |
| 4 | Vein or Fracture | 42.9 | 0.76 | 7.9 | 16.5 | 6.7 | 11.4 | 1.46 | 0.95 | 88.57 |
| 5 | Bedrock | 54.6 | 0.89 | 10.1 | 16.8 | 8.5 | 1.6 | 2.47 | 1.73 | 96.69 |
| 6 | Vein or Fracture | 53.2 | 0.86 | 10 | 17.7 | 10.1 | 2.7 | 2.18 | 1.45 | 98.19 |
| 7 | Bedrock | 56.1 | 0.88 | 11.8 | 17.5 | 8.4 | 1.3 | 2.42 | 1.68 | 100.08 |
| 8 | Vein or Fracture | 52.3 | 0.85 | 9.6 | 17.4 | 9.2 | 2.8 | 2.16 | 1.45 | 95.76 |
| 9 | Bedrock | 55.8 | 0.81 | 10.1 | 17.8 | 8.5 | 1 | 2.37 | 1.96 | 98.34 |
| 10 | Bedrock | 55.6 | 0.8 | 11.1 | 17.6 | 8.6 | 1.4 | 2.3 | 1.4 | 98.8 |



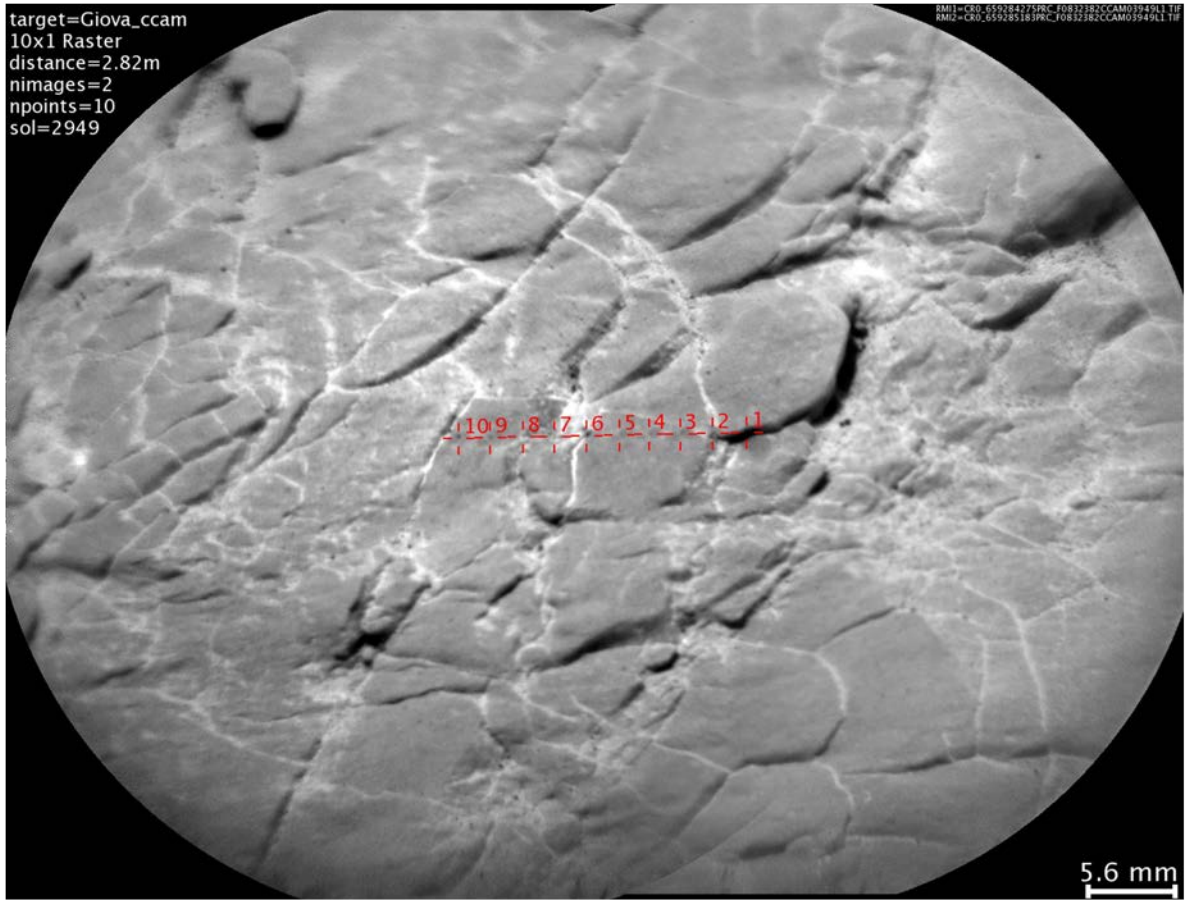



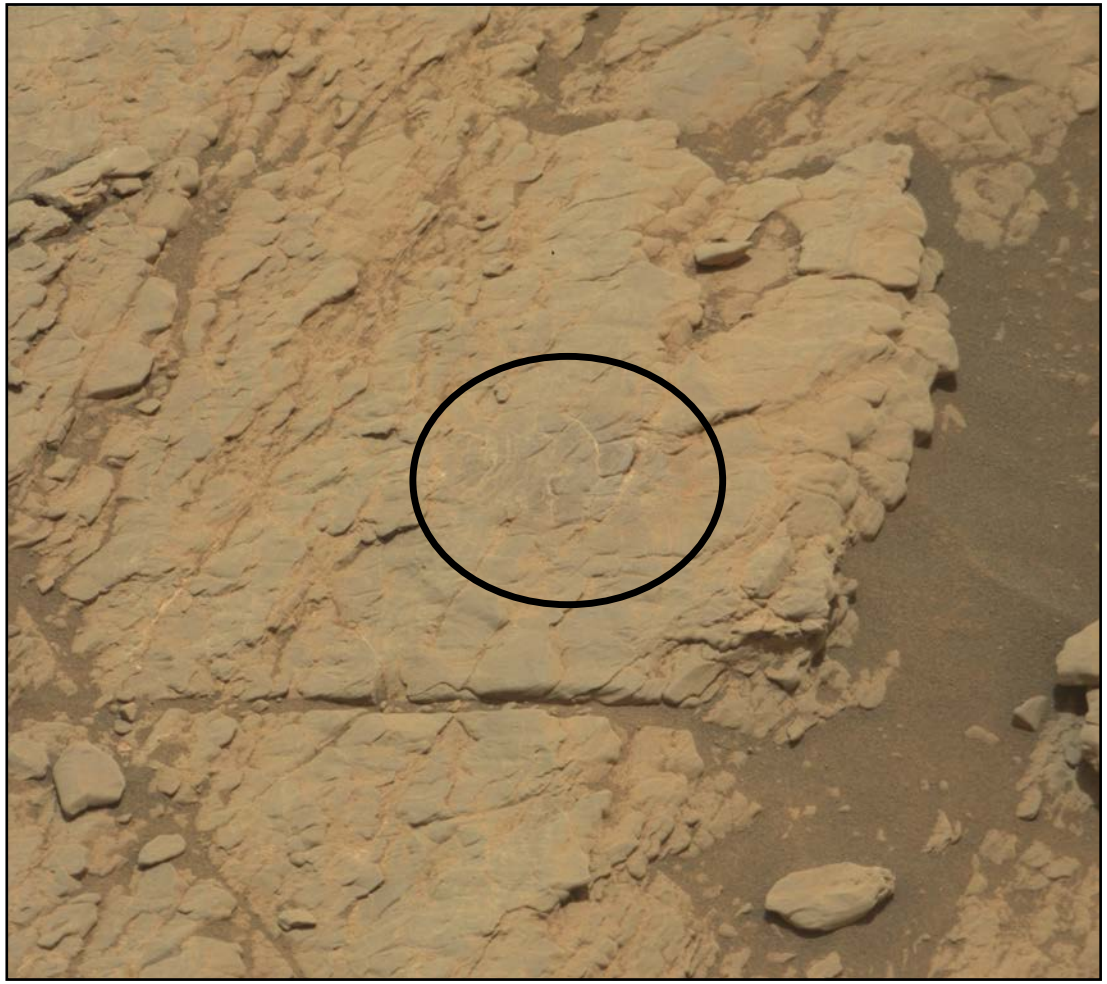
# Target: Giova_ccam

**Sol:** 2949
**Elev (m.):** -4109.49432571332
**CCAM Sequence ID:** CCAM03949

**Whole Target Classification:** Bedrock
**Lamination Strength:** Absent
**Lamination Expression:** Absent
**Grain Visibility:** Below RMI Image Resolution
**Bedrock Appearance:** Dull
**Nodule Presence:** Absent
**Nodule Diameter:** Absent
**Nodule Resistance:** Absent
**Fracture Presence:** Pervasive (>20% by Visual Inspection)

| # | Feature | SiO2 (wt%) | TiO2 (wt%) | Al2O3 (wt%) | FeOT (wt%) | MgO (wt%) | CaO (wt%) | Na2O (wt%) | K2O (wt%) | Sum of Oxides (wt%) |
|---|---|---|---|---|---|---|---|---|---|---|
| 1 | Bedrock | 55 | 0.84 | 12.6 | 18.3 | 8.2 | 1.7 | 2.83 | 2 | 101.47 |
| 2 | Vein or Fracture | 50.1 | 0.77 | 11.5 | 17.5 | 7.3 | 7.2 | 2.09 | 1.26 | 97.72 |
| 3 | Bedrock | 54.5 | 0.9 | 10.8 | 17.6 | 9.8 | 1.1 | 2.51 | 1.73 | 98.94 |
| 4 | Bedrock | 55.2 | 0.83 | 11.6 | 17.8 | 8.9 | 1.4 | 2.53 | 1.58 | 99.84 |
| 5 | Bedrock | 55.1 | 0.88 | 10.7 | 17.4 | 9.4 | 1.2 | 2.35 | 1.6 | 98.63 |
| 6 | Vein or Fracture | 53.3 | 1.06 | 11 | 17.5 | 10 | 1.9 | 2.33 | 1.36 | 98.45 |
| 7 | Vein or Fracture | 41.4 | 0.74 | 7.9 | 14.6 | 5 | 14.3 | 1.3 | 0.58 | 85.82 |
| 8 | Vein or Fracture | 36.7 | 0.63 | 6.3 | 12.3 | 3.7 | 19.8 | 1.24 | 0.58 | 81.25 |
| 9 | Bedrock | 55.6 | 0.97 | 11.2 | 17.8 | 8.9 | 1.2 | 2.48 | 1.65 | 99.8 |
| 10 | Bedrock | 53.5 | 0.98 | 11 | 18.5 | 9.9 | 1.7 | 2.57 | 1.28 | 99.43 |



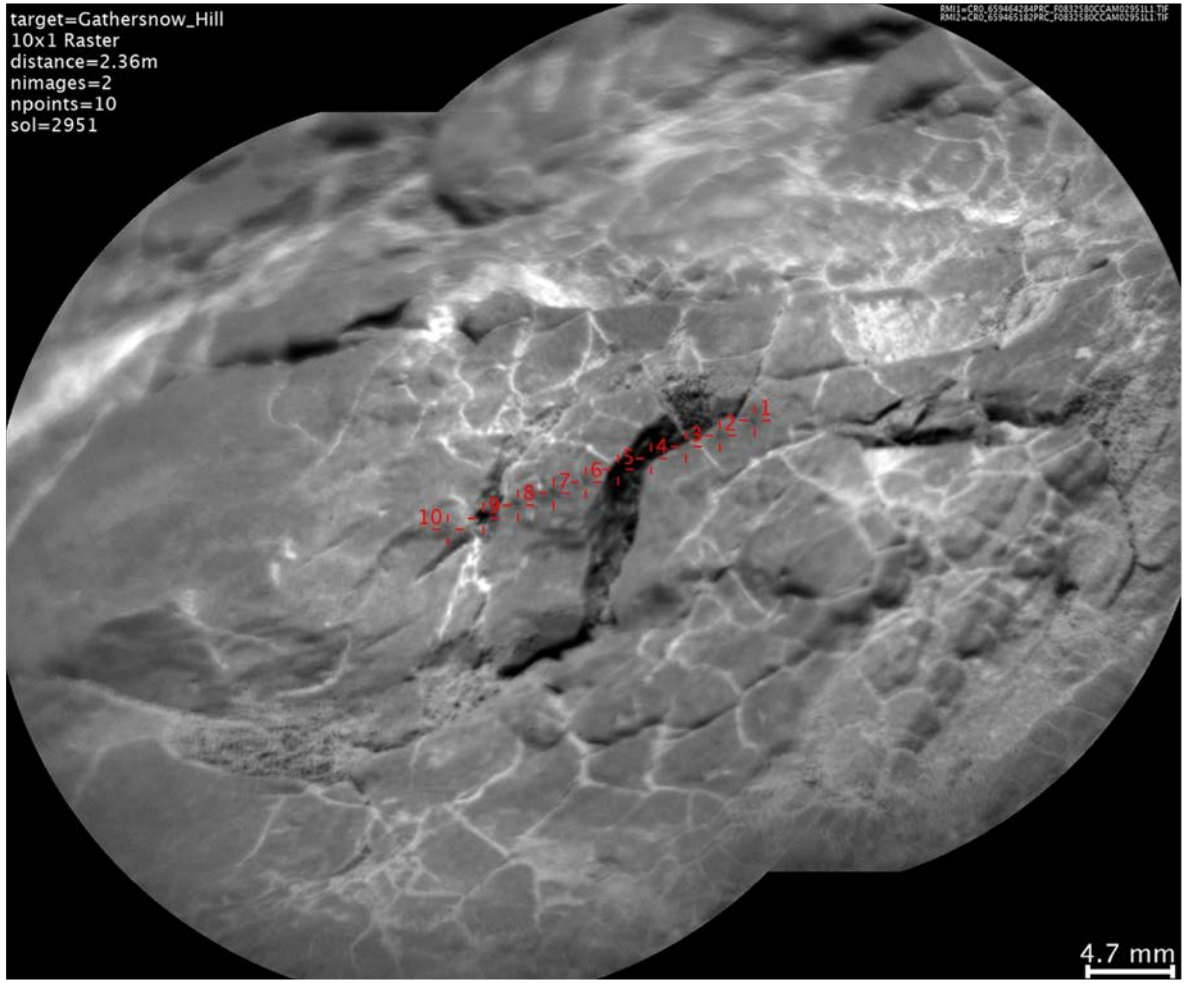



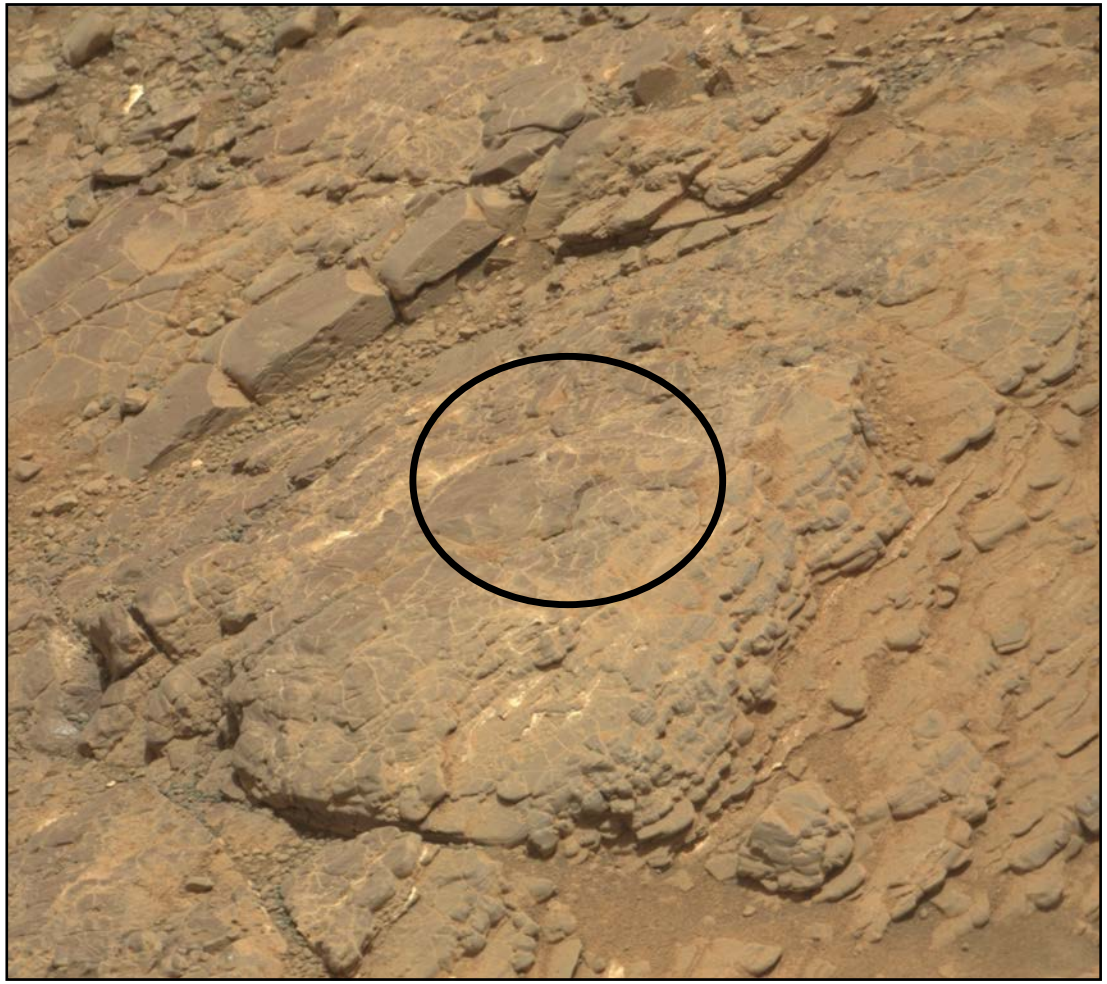
# Target: Gathersnow_Hill

**Sol:** 2951
**Elev (m.):** -4104.0805553093
**CCAM Sequence ID:** CCAM02951

**Whole Target Classification:** Bedrock
**Lamination Strength:** Absent
**Lamination Expression:** Absent
**Grain Visibility:** Below RMI Image Resolution
**Bedrock Appearance:** Dull
**Nodule Presence:** Absent
**Nodule Diameter:** Absent
**Nodule Resistance:** Absent
**Fracture Presence:** Pervasive (>20% by Visual Inspection)

| # | Feature | SiO2 (wt%) | TiO2 (wt%) | Al2O3 (wt%) | FeOT (wt%) | MgO (wt%) | CaO (wt%) | Na2O (wt%) | K2O (wt%) | Sum of Oxides (wt%) |
|---|---|---|---|---|---|---|---|---|---|---|
| 1 | Bedrock | 56.8 | 0.91 | 9.5 | 17.8 | 5.9 | 1.1 | 2.26 | 1.75 | 96.02 |
| 2 | Bedrock | 56.9 | 0.93 | 10.6 | 18.1 | 6 | 1.4 | 2.29 | 1.77 | 97.99 |
| 3 | Bedrock | 55.4 | 1.24 | 10.6 | 17.6 | 7.1 | 2.2 | 2.62 | 2.06 | 98.82 |
| 4 | Bedrock | 55.3 | 0.92 | 11.9 | 19 | 5.8 | 1.3 | 2.71 | 1.9 | 98.83 |
| 5 | Bedrock | 56.7 | 0.92 | 11.2 | 17.6 | 5.2 | 1.5 | 2.83 | 2.36 | 98.31 |
| 6 | Bedrock | 56.9 | 0.9 | 10.3 | 17.8 | 5.5 | 1.3 | 2.64 | 2.05 | 97.39 |
| 7 | Bedrock | 56.1 | 0.92 | 9.7 | 18.1 | 6 | 1.3 | 2.45 | 1.9 | 96.47 |
| 8 | Bedrock | 56.4 | 0.92 | 10 | 18 | 5.9 | 1.2 | 2.45 | 1.83 | 96.7 |
| 9 | Bedrock | 52 | 0.98 | 8.9 | 18.7 | 6.2 | 2.1 | 2.12 | 1.49 | 92.49 |
| 10 | Vein or Fracture | 44.4 | 0.83 | 8 | 16.7 | 4.4 | 11.3 | 1.5 | 0.93 | 88.06 |



# Target: aegis_post_2952a

**Sol:** 2951
**Elev (m.):** -4102.77286446314
**CCAM Sequence ID:** CCAM03951

**Whole Target Classification:** Bedrock
**Lamination Strength:** Weakly Laminated
**Lamination Expression:** Primary Stratification
**Grain Visibility:** Below RMI Image Resolution
**Bedrock Appearance:** Dull
**Nodule Presence:** Absent
**Nodule Diameter:** Absent
**Nodule Resistance:** Absent
**Fracture Presence:** Occasional (<10% by Visual Inspection)

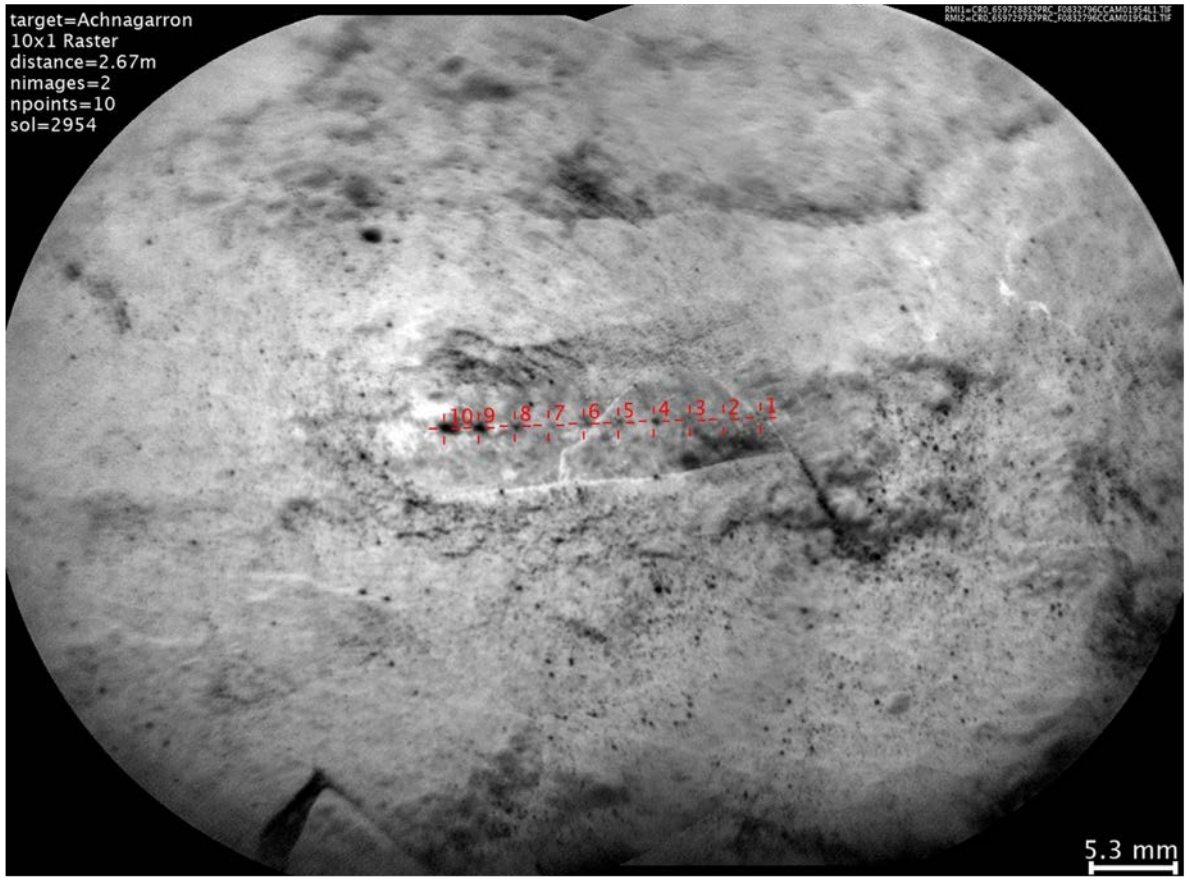
| # | Feature | SiO2 (wt%) | TiO2 (wt%) | Al2O3 (wt%) | FeOT (wt%) | MgO (wt%) | CaO (wt%) | Na2O (wt%) | K2O (wt%) | Sum of Oxides (wt%) |
|---|---|---|---|---|---|---|---|---|---|---|
| 1 | Bedrock | 51.8 | 0.79 | 13.7 | 21.2 | 5.2 | 4.5 | 2.75 | 1.54 | 101.48 |
| 2 | Bedrock | 32.8 | 0.58 | 9.3 | 9.1 | 2.1 | 25.7 | 1.2 | 0.38 | 81.16 |
| 3 | Bedrock | 32.6 | 0.61 | 6.2 | 13.1 | 2.5 | 21.5 | 1.11 | 0.47 | 78.09 |
| 4 | Bedrock | 51.5 | 0.85 | 12.7 | 20.6 | 5.6 | 1.1 | 2.81 | 1.6 | 96.76 |
| 5 | Bedrock | 53.6 | 0.83 | 11.4 | 20.2 | 8.3 | 1.2 | 2.55 | 1.63 | 99.71 |
| 6 | Bedrock | 38.8 | 0.63 | 7.6 | 12.6 | 3.4 | 22.9 | 1.28 | 0.68 | 87.89 |
| 7 | Bedrock | 52.4 | 0.77 | 12.8 | 20.3 | 5 | 1 | 3.3 | 2.11 | 97.68 |
| 8 | Bedrock | 56.2 | 0.72 | 13 | 22.3 | 5.6 | 0.9 | 3.31 | 2.14 | 104.17 |
| 9 | Bedrock | 53.7 | 0.87 | 11.1 | 20.4 | 7.9 | 1.3 | 2.84 | 1.57 | 99.68 |

# Target: Achnagarron

**Sol:** 2954
**Elev (m.):** -4103.0046063933
**CCAM Sequence ID:** CCAM01954

**Whole Target Classification:** Bedrock
**Lamination Strength:** Absent
**Lamination Expression:** Absent
**Grain Visibility:** Below RMI Image Resolution
**Bedrock Appearance:** Dull
**Nodule Presence:** Absent
**Nodule Diameter:** Absent
**Nodule Resistance:** Absent
**Fracture Presence:** Occasional (<10% by Visual Inspection)

| # | Feature | SiO2 (wt%) | TiO2 (wt%) | Al2O3 (wt%) | FeOT (wt%) | MgO (wt%) | CaO (wt%) | Na2O (wt%) | K2O (wt%) | Sum of Oxides (wt%) |
|---|---|---|---|---|---|---|---|---|---|---|
| 1 | Vein or Fracture | 51.5 | 1.09 | 9.9 | 17.8 | 9.7 | 2.4 | 1.92 | 0.71 | 95.02 |
| 2 | Bedrock | 54.5 | 0.94 | 12.6 | 18.4 | 6.6 | 1.7 | 2.97 | 1.65 | 99.36 |
| 3 | Bedrock | 52.2 | 0.96 | 10 | 20.3 | 7.3 | 1.4 | 2.25 | 1.02 | 95.43 |
| 4 | Bedrock | 49.4 | 0.9 | 10.2 | 20.4 | 7.8 | 1.4 | 2.18 | 0.91 | 93.19 |
| 5 | Bedrock | 55.4 | 1.07 | 11.5 | 18.6 | 7.2 | 1.7 | 2.58 | 1.45 | 99.5 |
| 6 | Bedrock | 50.5 | 1.09 | 11.5 | 20 | 8 | 1.8 | 2.65 | 1.19 | 96.73 |
| 7 | Bedrock | 46.6 | 0.82 | 9.7 | 17.3 | 4.7 | 10.2 | 1.89 | 0.82 | 92.03 |
| 8 | Bedrock | 50 | 0.95 | 10.7 | 19.7 | 5.5 | 1.5 | 2.74 | 1.16 | 92.25 |
| 9 | Bedrock | 52.6 | 1.02 | 12.3 | 21 | 5.6 | 1.8 | 2.94 | 1.43 | 98.69 |
| 10 | Bedrock | 50.6 | 0.98 | 11.9 | 20.2 | 5.7 | 1.6 | 2.81 | 1.11 | 94.9 |

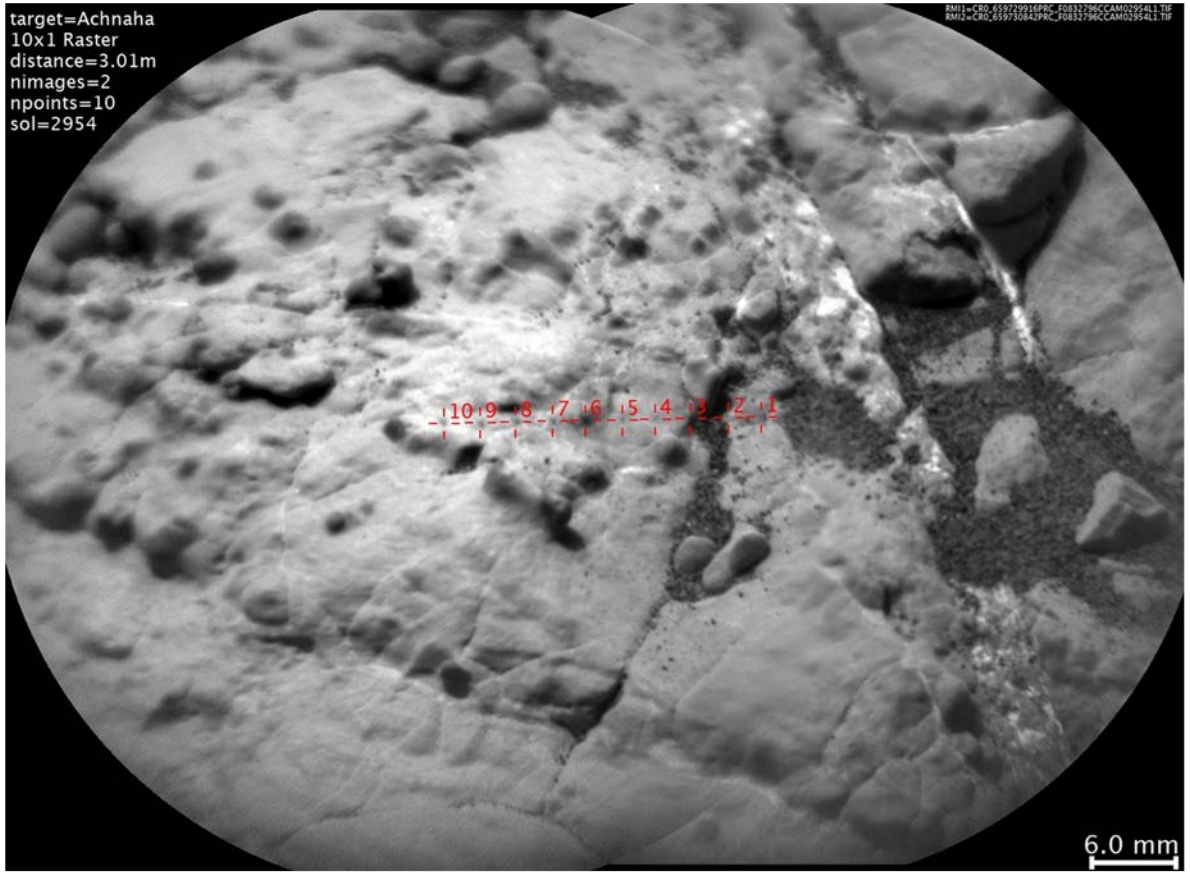


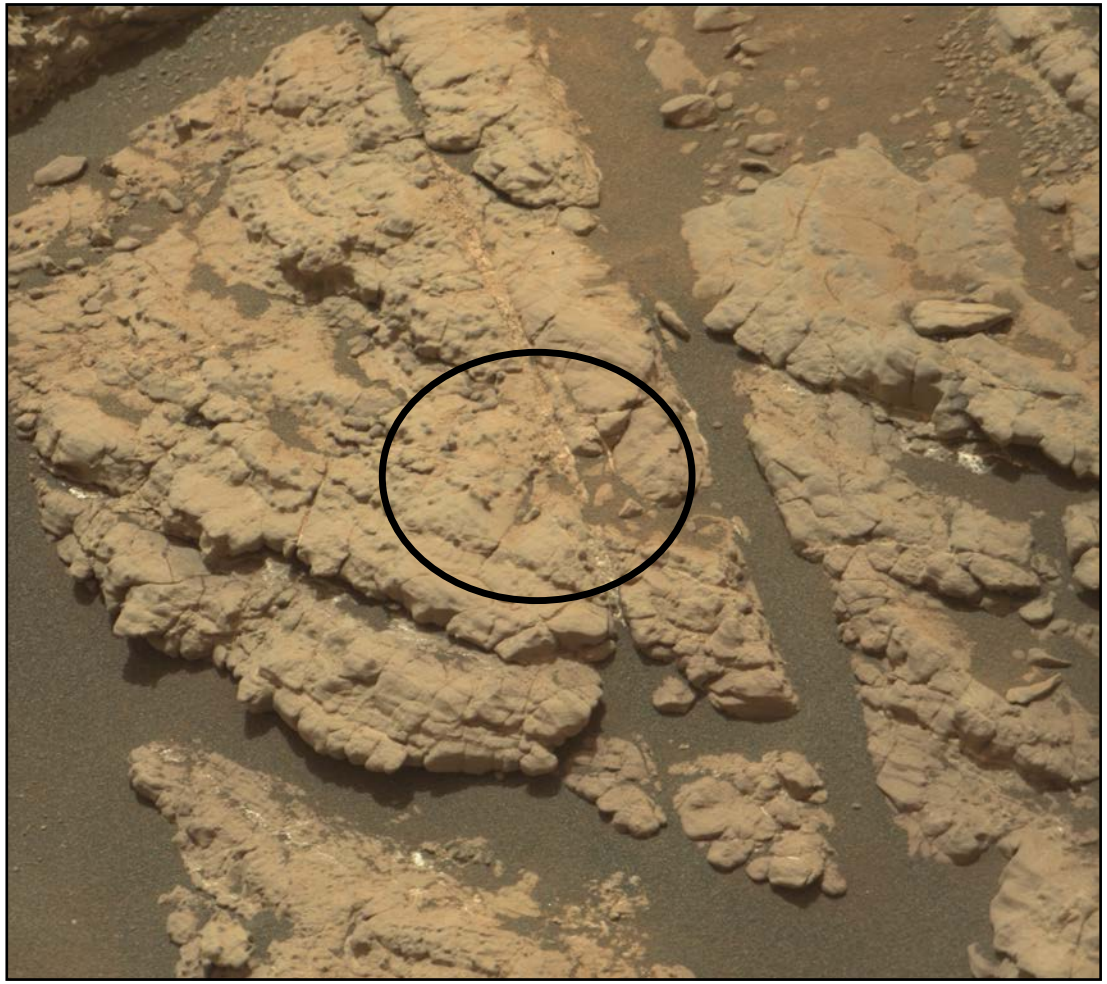
# Target: Achnaha

**Sol:** 2954
**Elev (m.):** -4102.86224447194
**CCAM Sequence ID:** CCAM02954

**Whole Target Classification:** Bedrock
**Lamination Strength:** Weakly Laminated
**Lamination Expression:** Laminae-Parallel Nodules
**Grain Visibility:** Below RMI Image Resolution
**Bedrock Appearance:** Dull
**Nodule Presence:** Pervasive (>50% by Visual Inspection)
**Nodule Diameter:** Medium (1 - 3 mm)
**Nodule Resistance:** Protruding
**Fracture Presence:** Pervasive (>20% by Visual Inspection)

| # | Feature | SiO2 (wt%) | TiO2 (wt%) | Al2O3 (wt%) | FeOT (wt%) | MgO (wt%) | CaO (wt%) | Na2O (wt%) | K2O (wt%) | Sum of Oxides (wt%) |
|---|---|---|---|---|---|---|---|---|---|---|
| 1 | Bedrock | 54.2 | 0.94 | 11.8 | 18.1 | 9.6 | 1.7 | 2.57 | 1.67 | 100.58 |
| 2 | Vein or Fracture | 39.3 | 0.7 | 7.4 | 13.3 | 3.6 | 20.6 | 1.01 | 0.55 | 86.46 |
| 3 | Bedrock | 50.1 | 0.89 | 10.3 | 19.7 | 4.7 | 1.2 | 2.93 | 1.77 | 91.59 |
| 4 | Bedrock | 56.4 | 1.07 | 12.8 | 18.6 | 5.5 | 1.9 | 2.64 | 1.47 | 100.38 |
| 5 | Bedrock | 57.2 | 1 | 13.9 | 17.7 | 5.5 | 2.2 | 3.01 | 1.76 | 102.27 |
| 6 | Nodule | 44.5 | 0.88 | 9.4 | 28.3 | 3.5 | 1 | 2.58 | 1.13 | 91.29 |
| 7 | Bedrock | 56.6 | 0.9 | 12.6 | 19.7 | 5.2 | 1.4 | 2.92 | 1.83 | 101.15 |
| 8 | Bedrock | 55.7 | 0.94 | 11.3 | 19 | 5.9 | 1.7 | 2.69 | 1.61 | 98.84 |
| 9 | Bedrock | 54 | 1.03 | 12.7 | 19 | 5.6 | 3.4 | 2.49 | 1.37 | 99.59 |
| 10 | Bedrock | 57.7 | 1.04 | 12.8 | 18.3 | 5.8 | 2 | 2.63 | 1.53 | 101.8 |



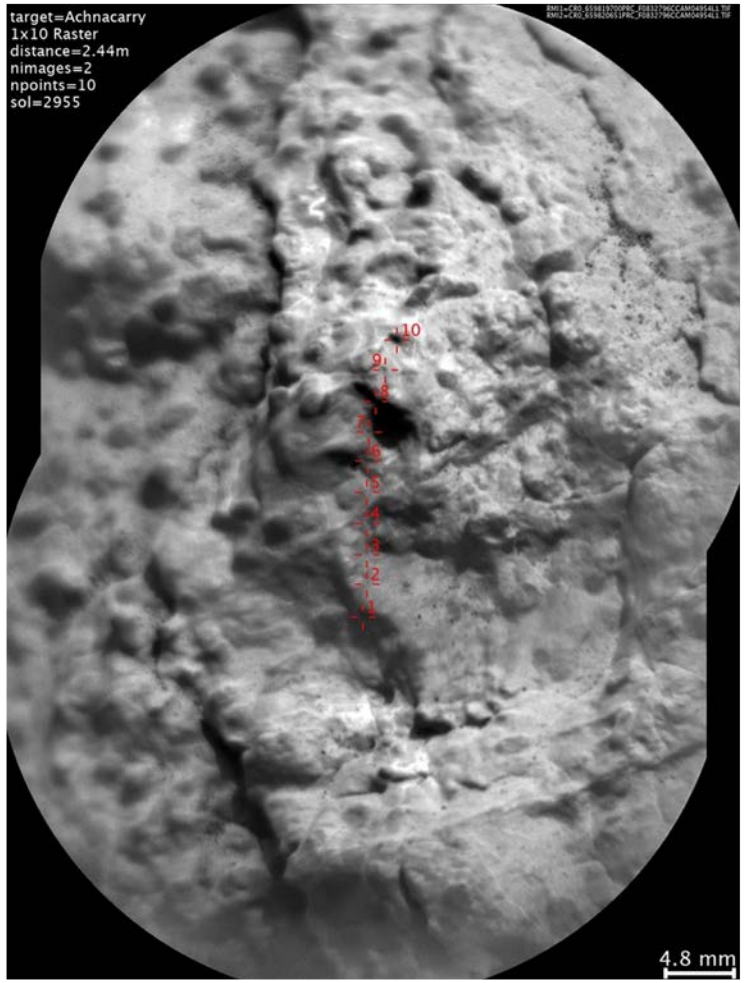



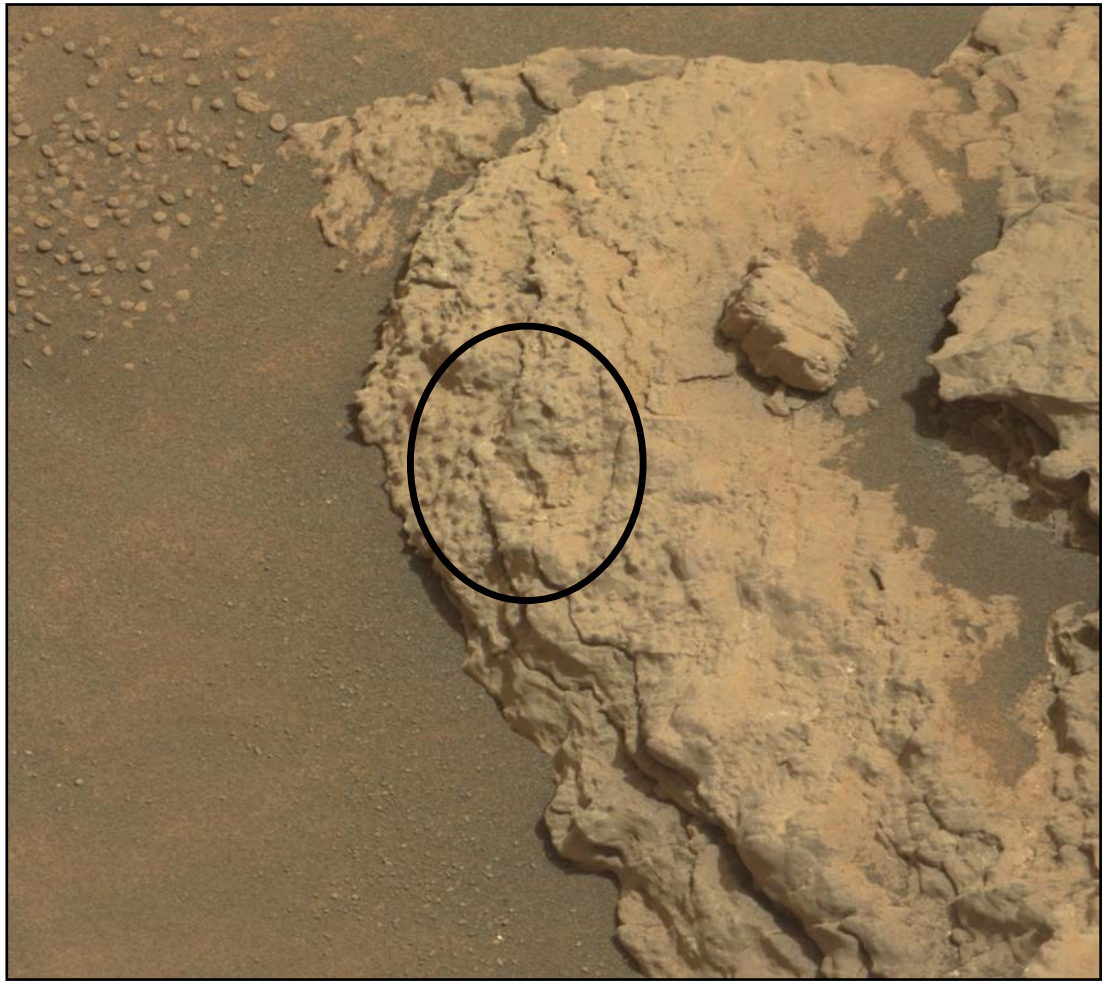
# Target: Achnacarry

**Sol:** 2954
**Elev (m.):** -4103.15678427425
**CCAM Sequence ID:** CCAM04954

**Whole Target Classification:** Bedrock
**Lamination Strength:** Absent
**Lamination Expression:** Absent
**Grain Visibility:** Below RMI Image Resolution
**Bedrock Appearance:** Dull
**Nodule Presence:** Pervasive (>50% by Visual Inspection)
**Nodule Diameter:** Medium (1 - 3 mm)
**Nodule Resistance:** Protruding
**Fracture Presence:** Pervasive (>20% by Visual Inspection)

| # | Feature | SiO2 (wt%) | TiO2 (wt%) | Al2O3 (wt%) | FeOT (wt%) | MgO (wt%) | CaO (wt%) | Na2O (wt%) | K2O (wt%) | Sum of Oxides (wt%) |
|---|---|---|---|---|---|---|---|---|---|---|
| 1 | Nodule | 41.7 | 0.86 | 8.5 | 27.3 | 4.1 | 1.4 | 2.27 | 1.1 | 87.23 |
| 2 | Bedrock | 56.6 | 0.89 | 11.2 | 17.7 | 7.2 | 1.4 | 2.48 | 1.57 | 99.04 |
| 3 | Vein or Fracture | 49.3 | 0.92 | 10.7 | 17.8 | 5.9 | 6 | 2.1 | 1.07 | 93.79 |
| 4 | Vein or Fracture | 33.6 | 0.65 | 6 | 11.7 | 3.1 | 22.3 | 0.79 | 0.46 | 78.6 |
| 5 | Bedrock | 51 | 0.79 | 9.8 | 19.3 | 5.5 | 3.2 | 2.29 | 1.28 | 93.16 |
| 6 | Bedrock | 54.5 | 0.98 | 11 | 18.7 | 7.3 | 1.7 | 2.59 | 1.78 | 98.55 |
| 7 | Bedrock | 54 | 0.85 | 12.9 | 16.5 | 8.3 | 1.6 | 2.87 | 1.72 | 98.74 |
| 8 | Bedrock | 55 | 0.88 | 9.5 | 15.8 | 7.3 | 1.9 | 2.58 | 1.53 | 94.49 |
| 9 | Bedrock | 52.1 | 0.96 | 12 | 19.6 | 5.9 | 2.9 | 2.58 | 1.23 | 97.27 |
| 10 | Nodule | 43.8 | 0.89 | 9.2 | 28 | 3.5 | 1.2 | 2.02 | 0.72 | 89.33 |



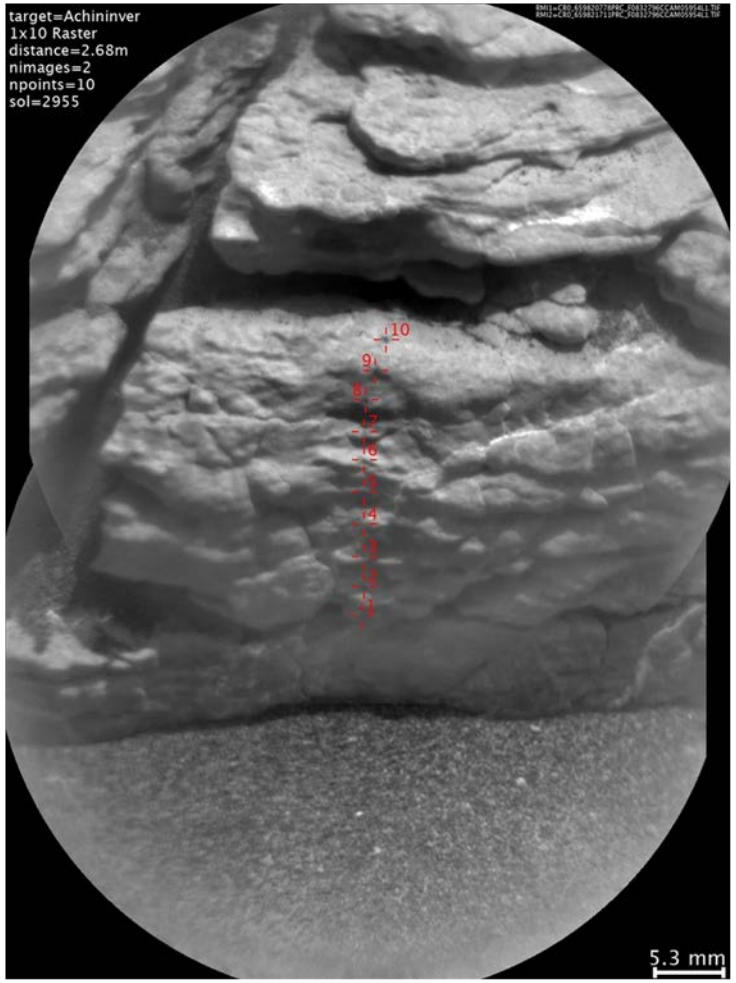



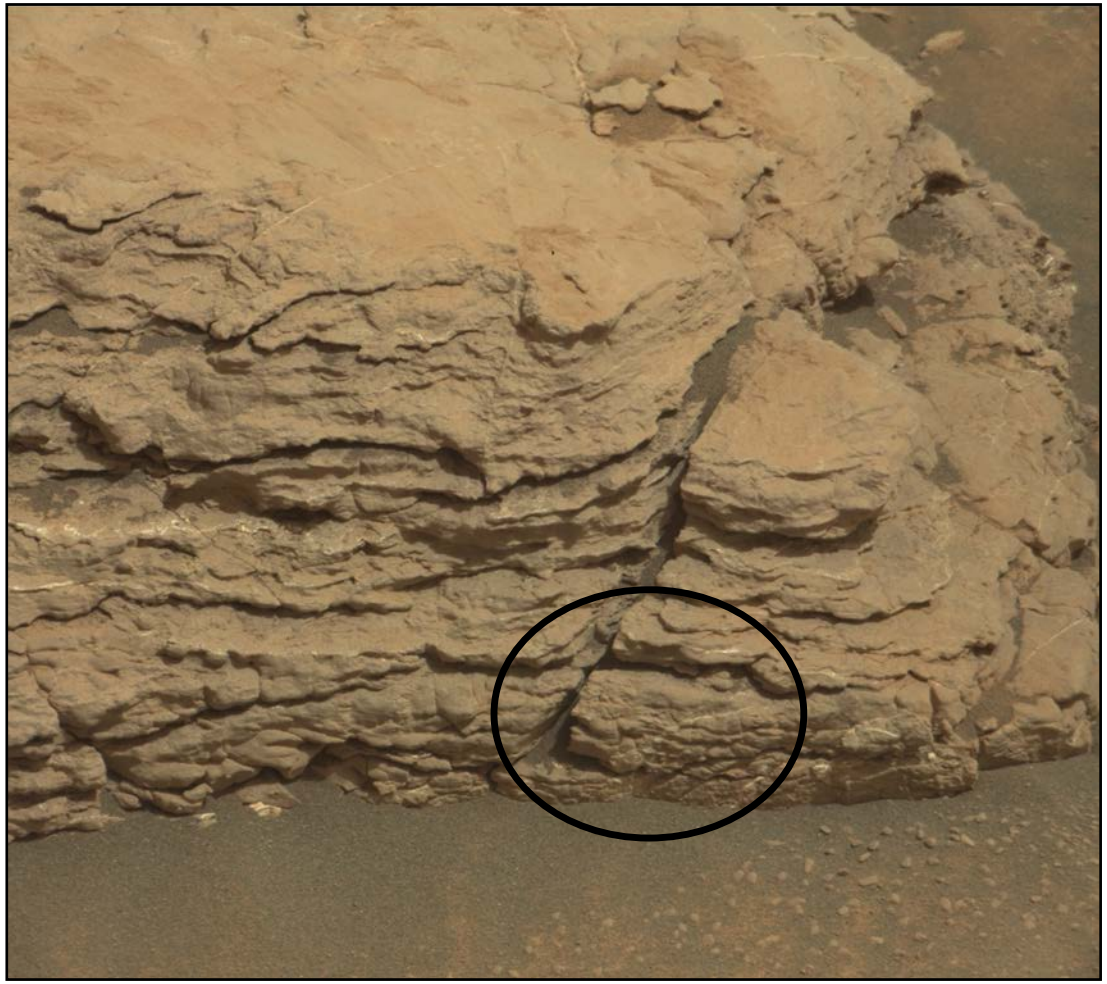
# Target: Achininver

**Sol:** 2954
**Elev (m.):** -4103.1189192614
**CCAM Sequence ID:** CCAM05954

**Whole Target Classification:** Bedrock
**Lamination Strength:** Moderately Laminated
**Lamination Expression:** Primary Stratification
**Grain Visibility:** Below RMI Image Resolution
**Bedrock Appearance:** Dull
**Nodule Presence:** Unclear
**Nodule Diameter:** Unclear
**Nodule Resistance:** Unclear
**Fracture Presence:** Common (~10-20% by Visual Inspection)

| # | Feature | SiO2 (wt%) | TiO2 (wt%) | Al2O3 (wt%) | FeOT (wt%) | MgO (wt%) | CaO (wt%) | Na2O (wt%) | K2O (wt%) | Sum of Oxides (wt%) |
|---|---|---|---|---|---|---|---|---|---|---|
| 1 | Bedrock | 54.6 | 1.01 | 10.2 | 18.5 | 6.6 | 1.9 | 2.92 | 1.85 | 97.58 |
| 2 | Bedrock | 50.3 | 1 | 9.9 | 22.6 | 5.6 | 1.3 | 2.73 | 1.62 | 95.05 |
| 3 | Bedrock | 53.4 | 0.82 | 11.2 | 20.5 | 6.6 | 1.3 | 3.03 | 1.83 | 98.68 |
| 4 | Vein or Fracture | 32 | 0.58 | 5.6 | 9.8 | 2.8 | 25.5 | 0.75 | 0.39 | 77.42 |
| 5 | Bedrock | 53.6 | 0.89 | 10.4 | 19.4 | 7.2 | 1.4 | 2.65 | 1.74 | 97.28 |
| 6 | Bedrock | 53.1 | 0.96 | 10.9 | 20.5 | 6.7 | 1.4 | 2.91 | 1.89 | 98.36 |
| 7 | Bedrock | 55.2 | 0.84 | 11.8 | 19.9 | 5.9 | 1.4 | 3.19 | 2.06 | 100.29 |
| 8 | Bedrock | 51.2 | 0.99 | 11.4 | 21.5 | 7.4 | 1.4 | 2.6 | 1.55 | 98.04 |
| 9 | Bedrock | 52.5 | 1 | 11.8 | 21.8 | 6.2 | 1.5 | 2.84 | 1.75 | 99.39 |
| 10 | Bedrock | 48.7 | 0.89 | 11.2 | 21.2 | 8.6 | 1.7 | 2.4 | 0.95 | 95.64 |



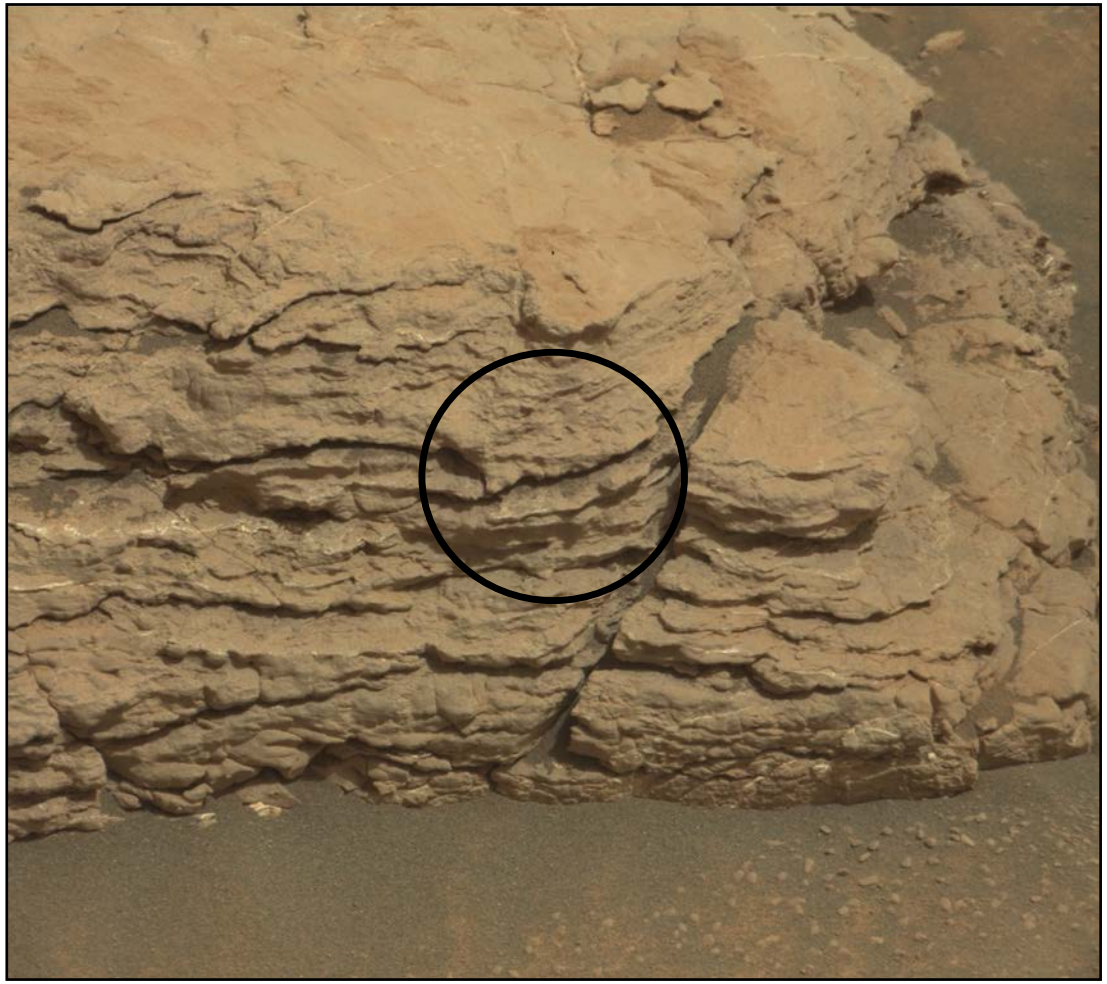



# Target: Achnasau

**Sol:** 2954
**Elev (m.):** -4103.05748497401
**CCAM Sequence ID:** CCAM06954

**Whole Target Classification:** Bedrock
**Lamination Strength:** Moderately Laminated
**Lamination Expression:** Primary Stratification
**Grain Visibility:** Below RMI Image Resolution
**Bedrock Appearance:** Dull
**Nodule Presence:** Unclear
**Nodule Diameter:** Unclear
**Nodule Resistance:** Unclear
**Fracture Presence:** Common (~10-20% by Visual Inspection)

| # | Feature | SiO2 (wt%) | TiO2 (wt%) | Al2O3 (wt%) | FeOT (wt%) | MgO (wt%) | CaO (wt%) | Na2O (wt%) | K2O (wt%) | Sum of Oxides (wt%) |
|---|---|---|---|---|---|---|---|---|---|---|
| 1 | Bedrock | 55.7 | 0.9 | 11.1 | 17.6 | 7.4 | 1.6 | 2.5 | 1.29 | 98.09 |
| 2 | Bedrock | 53 | 0.86 | 10.5 | 18.3 | 7.1 | 1.7 | 2.68 | 1.51 | 95.65 |
| 3 | Bedrock | 55.4 | 0.99 | 11.2 | 19 | 6.3 | 1.6 | 2.72 | 1.75 | 98.96 |
| 4 | Bedrock | 52.5 | 1.11 | 11.7 | 21.1 | 6.7 | 1.7 | 2.87 | 1.68 | 99.36 |
| 5 | Vein or Fracture | 43.4 | 0.76 | 8.3 | 16.8 | 3.9 | 11.9 | 2.03 | 1.31 | 88.4 |
| 6 | Vein or Fracture | 44.5 | 0.92 | 10.1 | 18.8 | 4.9 | 9.3 | 1.91 | 0.81 | 91.24 |
| 7 | Bedrock | 52.2 | 0.99 | 11.2 | 19.2 | 6.5 | 1.8 | 2.85 | 1.53 | 96.27 |
| 8 | Bedrock | 51.4 | 0.87 | 10.3 | 20.5 | 6.3 | 1.8 | 2.87 | 1.98 | 96.02 |
| 9 | Bedrock | 52.9 | 0.92 | 10 | 18.7 | 6.2 | 1.7 | 2.74 | 1.4 | 94.56 |
| 10 | Bedrock | 51.3 | 0.91 | 10.7 | 18.9 | 8.1 | 1.7 | 3.5 | 1.17 | 96.28 |

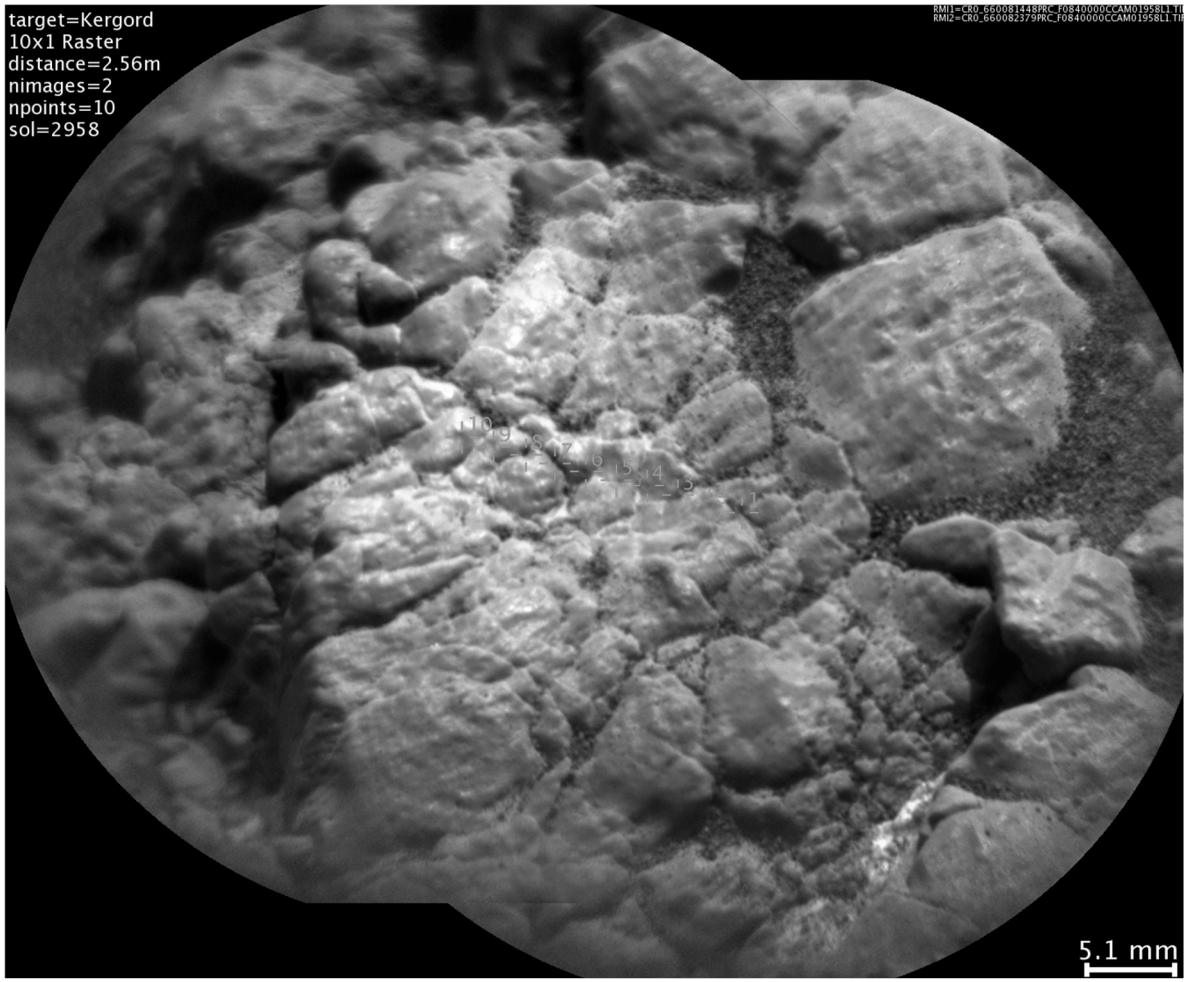


# Target: Kergord

**Sol:** 2958
**Elev (m.):** -4097.31683586887
**CCAM Sequence ID:** CCAM01958

**Whole Target Classification:** Bedrock
**Lamination Strength:** Absent
**Lamination Expression:** Absent
**Grain Visibility:** Below RMI Image Resolution
**Bedrock Appearance:** Shiny
**Nodule Presence:** Unclear
**Nodule Diameter:** Unclear
**Nodule Resistance:** Unclear
**Fracture Presence:** Common (~10-20% by Visual Inspection)

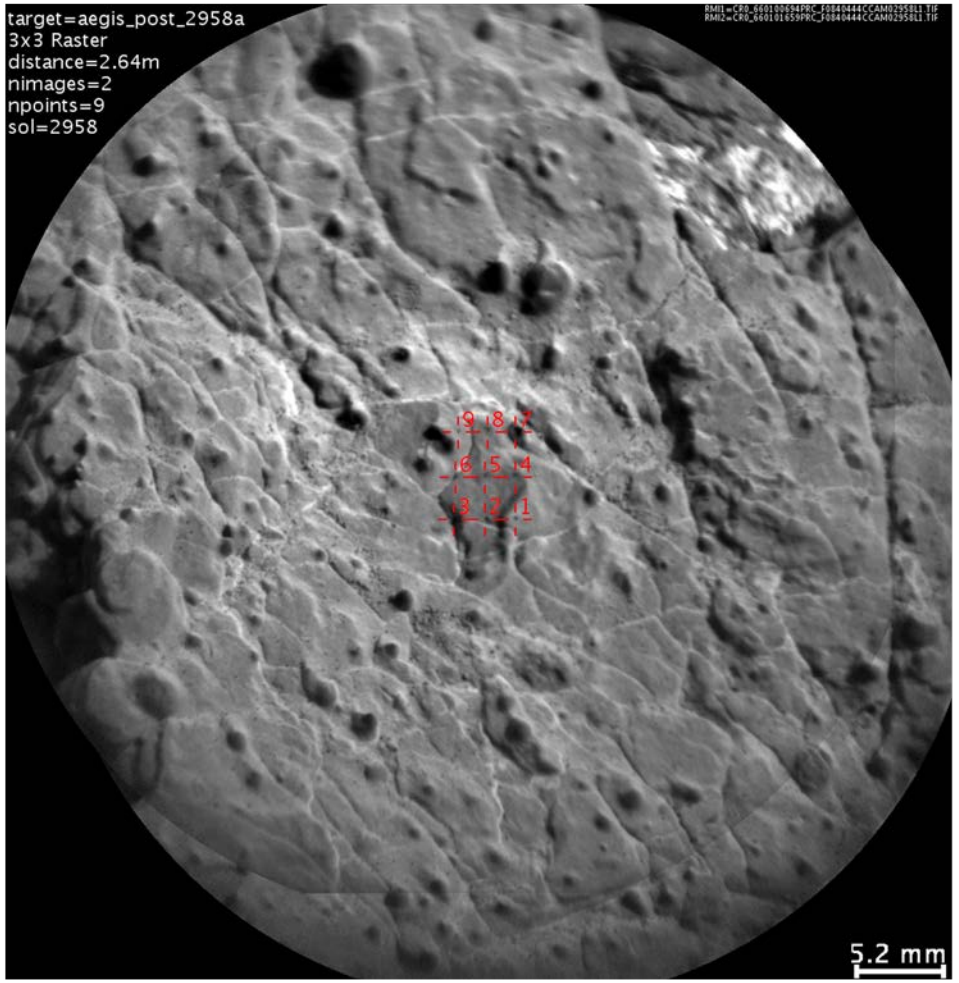
| # | Feature | SiO2 (wt%) | TiO2 (wt%) | Al2O3 (wt%) | FeOT (wt%) | MgO (wt%) | CaO (wt%) | Na2O (wt%) | K2O (wt%) | Sum of Oxides (wt%) |
|---|---|---|---|---|---|---|---|---|---|---|
| 1 | Vein or Fracture | 42.9 | 0.73 | 8.7 | 15.8 | 3.9 | 13.8 | 1.31 | 0.84 | 87.98 |
| 2 | Bedrock | 55.8 | 0.96 | 11.2 | 18.3 | 6.3 | 1.1 | 2.39 | 1.86 | 97.91 |
| 3 | Sand | 55.6 | 0.94 | 11.8 | 19.1 | 5.9 | 1.1 | 2.36 | 1.86 | 98.66 |
| 4 | Bedrock | 55.6 | 1.06 | 11.7 | 18.8 | 6.2 | 1.4 | 2.46 | 1.76 | 98.98 |
| 5 | Bedrock | 54.9 | 0.97 | 12.2 | 18.8 | 6.3 | 1.3 | 2.22 | 1.43 | 98.12 |
| 6 | Bedrock | 55.6 | 1.06 | 11.9 | 19.3 | 5.8 | 1.3 | 2.58 | 2.07 | 99.61 |
| 7 | Vein or Fracture | 52.8 | 0.9 | 11.5 | 18.7 | 7 | 2.8 | 2.17 | 1.26 | 97.13 |
| 8 | Vein or Fracture | 53.1 | 0.83 | 9.9 | 18.1 | 6.8 | 2.9 | 2.09 | 1.41 | 95.13 |
| 9 | Bedrock | 54.9 | 0.91 | 11 | 17.9 | 7.5 | 1.2 | 2.29 | 1.66 | 97.36 |
| 10 | Bedrock | 55.8 | 0.87 | 11.5 | 18.3 | 6.1 | 1.1 | 2.33 | 2.01 | 98.01 |



# Target: aegis_post_2958a

**Sol:** 2958
**Elev (m.):** -4091.95864062342
**CCAM Sequence ID:** CCAM02958

**Whole Target Classification:** Bedrock
**Lamination Strength:** Absent
**Lamination Expression:** Absent
**Grain Visibility:** Below RMI Image Resolution
**Bedrock Appearance:** Dull
**Nodule Presence:** Common (~30% by Visual Inspection
**Nodule Diameter:** Medium (1 - 3 mm)
**Nodule Resistance:** Protruding
**Fracture Presence:** Pervasive (>20% by Visual Inspection)



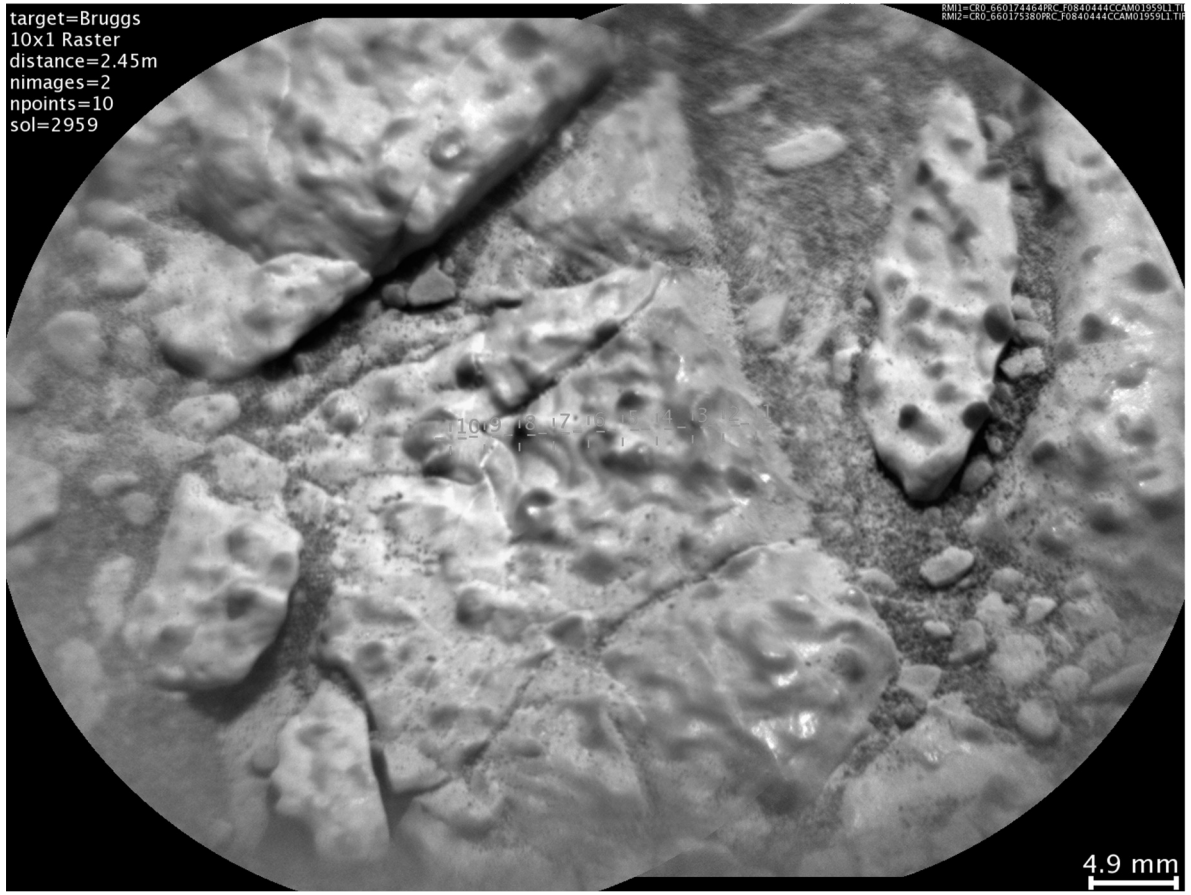

| # | Feature | SiO2 (wt%) | TiO2 (wt%) | Al2O3 (wt%) | FeOT (wt%) | MgO (wt%) | CaO (wt%) | Na2O (wt%) | K2O (wt%) | Sum of Oxides (wt%) |
|---|---|---|---|---|---|---|---|---|---|---|
| 1 | Bedrock | 57.1 | 1.08 | 13.4 | 16.4 | 5.6 | 1.9 | 3.1 | 1.98 | 100.56 |
| 2 | Bedrock | 56.4 | 0.94 | 12.3 | 17.8 | 5.4 | 1.9 | 2.93 | 1.87 | 99.54 |
| 3 | Vein or Fracture | 52.9 | 0.96 | 11.5 | 20.4 | 5.2 | 1.9 | 2.64 | 1.34 | 96.84 |
| 4 | Bedrock | 56.8 | 0.93 | 11.5 | 17.4 | 5.5 | 1.7 | 2.82 | 1.81 | 98.46 |
| 5 | Bedrock | 57.7 | 0.94 | 12.1 | 16.2 | 5.1 | 1.6 | 3.04 | 2.11 | 98.79 |
| 6 | Vein or Fracture | 54.9 | 0.89 | 11.8 | 17 | 6 | 2.3 | 2.81 | 1.58 | 97.28 |
| 7 | Nodule | 53.8 | 0.95 | 11.8 | 20.5 | 5.3 | 1.6 | 2.66 | 1.53 | 98.14 |
| 8 | Bedrock | 56 | 0.94 | 11.6 | 18 | 5.4 | 1.7 | 2.99 | 1.94 | 98.57 |
| 9 | Bedrock | 57 | 1.02 | 11.7 | 17 | 5.7 | 1.9 | 2.58 | 1.37 | 98.27 |

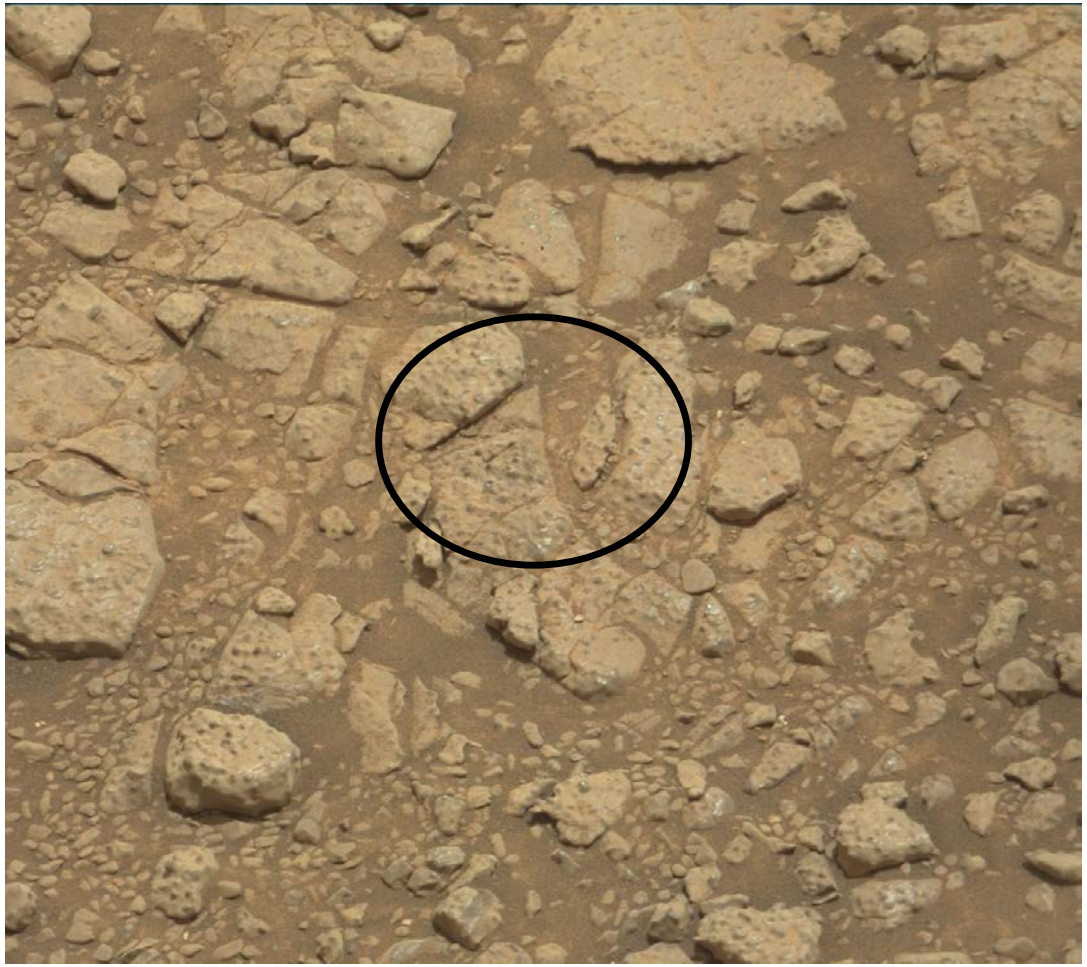
# Target: Bruggs

**Sol:** 2959
**Elev (m.):** -4092.00576890702
**CCAM Sequence ID:** CCAM01959

**Whole Target Classification:** Bedrock
**Lamination Strength:** Absent
**Lamination Expression:** Absent
**Grain Visibility:** Below RMI Image Resolution
**Bedrock Appearance:** Shiny
**Nodule Presence:** Pervasive (>50% by Visual Inspection)
**Nodule Diameter:** Medium (1 - 3 mm)
**Nodule Resistance:** Protruding
**Fracture Presence:** Common (~10-20% by Visual Inspection)

| # | Feature | SiO2 (wt%) | TiO2 (wt%) | Al2O3 (wt%) | FeOT (wt%) | MgO (wt%) | CaO (wt%) | Na2O (wt%) | K2O (wt%) | Sum of Oxides (wt%) |
|---|---|---|---|---|---|---|---|---|---|---|
| 1 | Bedrock | 57.6 | 0.97 | 10.5 | 16.9 | 4.7 | 1.3 | 2.59 | 1.5 | 96.06 |
| 2 | Bedrock | 58.3 | 0.94 | 13.6 | 15.5 | 4.3 | 1.9 | 2.86 | 1.6 | 99 |
| 3 | Nodule | 47 | 0.93 | 9.2 | 19.7 | 4.5 | 1 | 2.22 | 1.09 | 85.64 |
| 4 | Bedrock | 57.6 | 0.97 | 12.3 | 17 | 4.6 | 1.6 | 2.82 | 1.79 | 98.68 |
| 5 | Bedrock | 62.6 | 0.86 | 12.4 | 12.9 | 4.3 | 1.5 | 2.69 | 1.81 | 99.06 |
| 6 | Nodule | 55.2 | 0.98 | 14.1 | 20 | 4.8 | 1.5 | 2.85 | 1.62 | 101.05 |
| 7 | Bedrock | 59.1 | 0.99 | 12.8 | 17.1 | 4.5 | 1.4 | 2.84 | 2.22 | 100.95 |
| 8 | Nodule | 42.2 | 0.86 | 8.2 | 27.3 | 3 | 0.8 | 2.22 | 1.09 | 85.67 |
| 9 | Bedrock | 59 | 1.01 | 13.7 | 16.8 | 5 | 1.9 | 2.68 | 1.54 | 101.63 |
| 10 | Bedrock | 57.6 | 0.93 | 12.6 | 18.2 | 4.7 | 1.4 | 2.62 | 1.84 | 99.89 |

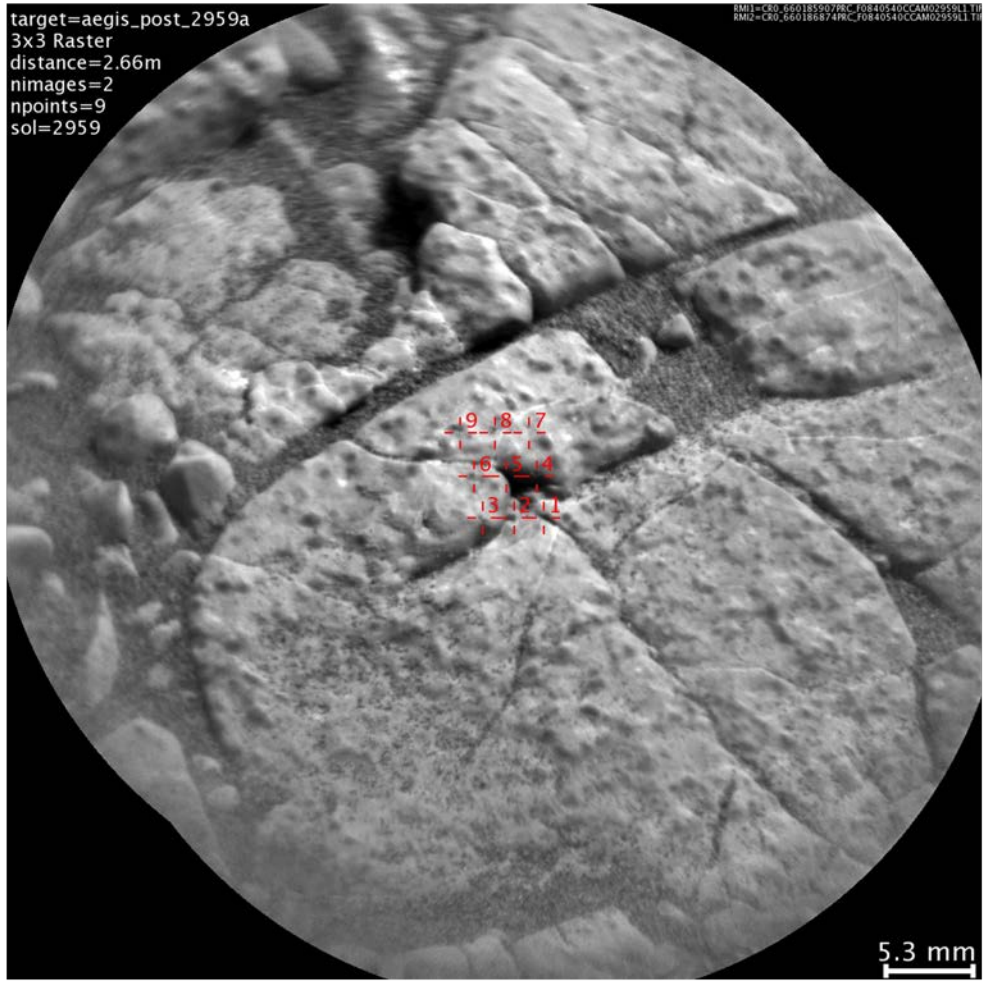


# Target: aegis_post_2959a

**Sol:** 2959
**Elev (m.):** -4090.32477843432
**CCAM Sequence ID:** CCAM02959

**Whole Target Classification:** Bedrock
**Lamination Strength:** Absent
**Lamination Expression:** Absent
**Grain Visibility:** Unclear
**Bedrock Appearance:** Dull
**Nodule Presence:** Pervasive (>50% by Visual Inspection)
**Nodule Diameter:** Small (<1 mm)
**Nodule Resistance:** Protruding
**Fracture Presence:** Common (~10-20% by Visual Inspection)



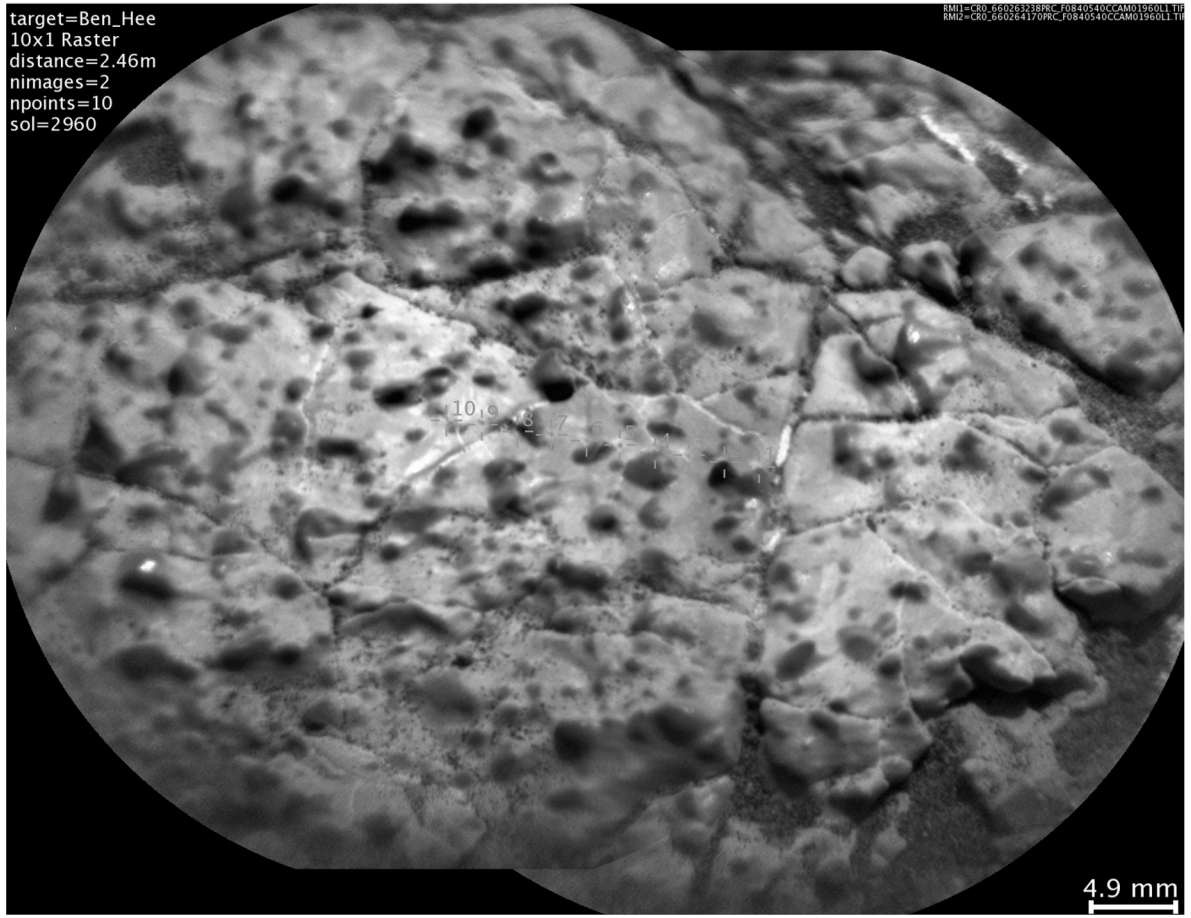

| # | Feature | SiO2 (wt%) | TiO2 (wt%) | Al2O3 (wt%) | FeOT (wt%) | MgO (wt%) | CaO (wt%) | Na2O (wt%) | K2O (wt%) | Sum of Oxides (wt%) |
|---|---|---|---|---|---|---|---|---|---|---|
| 1 | Vein or Fracture | 51.5 | 0.85 | 11.7 | 20.7 | 6.2 | 3 | 2.55 | 1.01 | 97.51 |
| 2 | Bedrock | 54.7 | 1.06 | 12.6 | 17.9 | 5.6 | 1.7 | 2.62 | 1.55 | 97.73 |
| 3 | Bedrock | 55.6 | 0.99 | 12.7 | 18.7 | 5.6 | 1.8 | 2.9 | 2 | 100.29 |
| 4 | Bedrock | 56 | 0.98 | 12 | 18.4 | 5.6 | 1.5 | 3.08 | 2.24 | 99.8 |
| 5 | Bedrock | 57.4 | 1.08 | 13.7 | 18.4 | 5.7 | 1.8 | 3.04 | 1.7 | 102.82 |
| 6 | Nodule | 51.3 | 0.95 | 10.3 | 19.3 | 4.5 | 1.4 | 2.52 | 1.44 | 91.71 |
| 7 | Bedrock | 56 | 0.9 | 11.6 | 17.8 | 5.7 | 1.6 | 2.9 | 1.95 | 98.45 |
| 8 | Nodule | 52.2 | 0.96 | 12.3 | 21.6 | 4.8 | 1.8 | 2.65 | 1.36 | 97.67 |
| 9 | Bedrock | 54.5 | 0.93 | 11.9 | 19.5 | 4.8 | 1.6 | 2.84 | 1.59 | 97.66 |

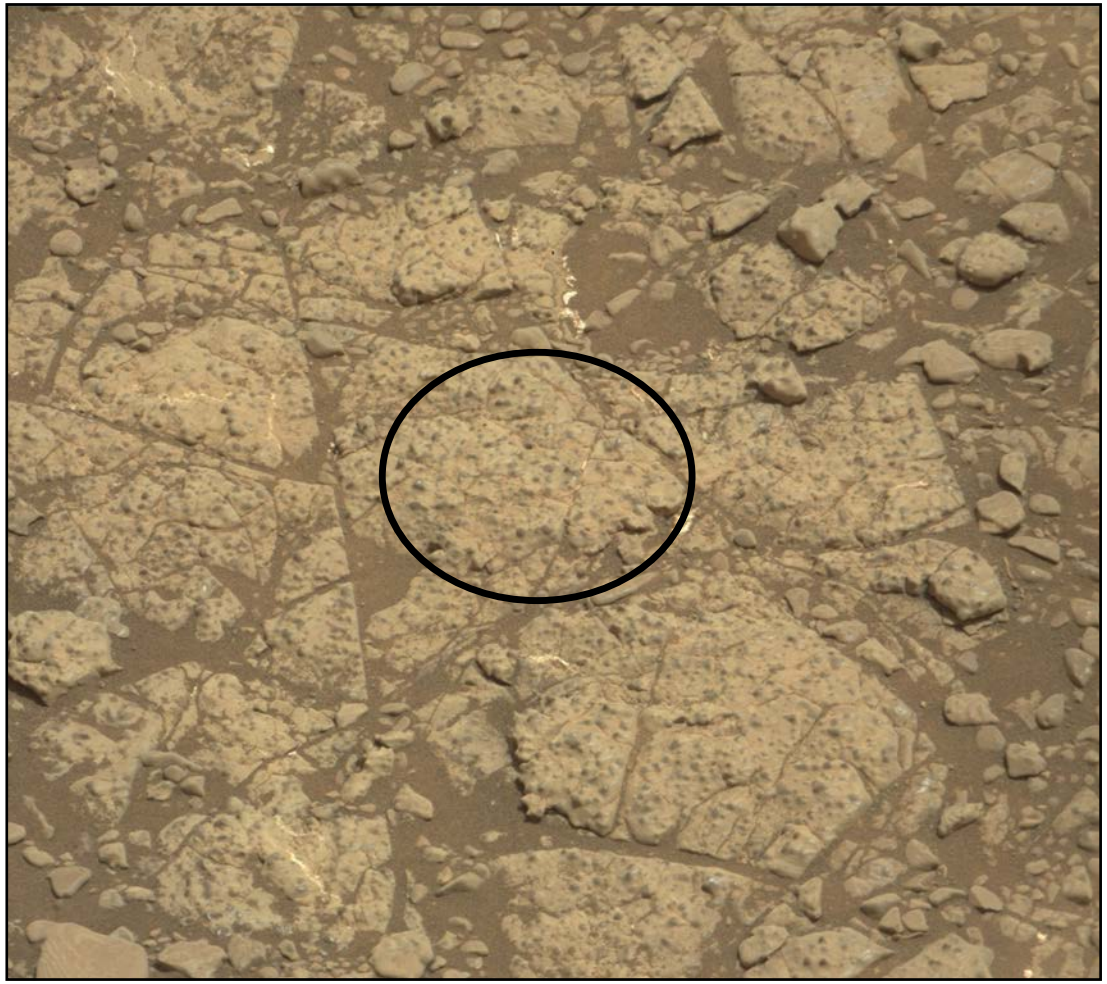
# Target: Ben_Hee

**Sol:** 2960
**Elev (m.):** -4090.47887310125
**CCAM Sequence ID:** CCAM01960

**Whole Target Classification:** Bedrock
**Lamination Strength:** Absent
**Lamination Expression:** Absent
**Grain Visibility:** Below RMI Image Resolution
**Bedrock Appearance:** Dull
**Nodule Presence:** Pervasive (>50% by Visual Inspection)
**Nodule Diameter:** Medium (1 - 3 mm)
**Nodule Resistance:** Protruding
**Fracture Presence:** Common (~10-20% by Visual Inspection)

| # | Feature | SiO2 (wt%) | TiO2 (wt%) | Al2O3 (wt%) | FeOT (wt%) | MgO (wt%) | CaO (wt%) | Na2O (wt%) | K2O (wt%) | Sum of Oxides (wt%) |
|---|---|---|---|---|---|---|---|---|---|---|
| 1 | Bedrock | 55.1 | 0.96 | 10.9 | 16 | 5.7 | 1.9 | 2.51 | 1.21 | 94.28 |
| 2 | Nodule | 45.3 | 0.84 | 8.3 | 27.4 | 2.9 | 1 | 2.28 | 1.12 | 89.14 |
| 3 | Bedrock | 60.9 | 1 | 12.5 | 13.3 | 4.9 | 1.5 | 2.66 | 1.7 | 98.46 |
| 4 | Nodule | 53.5 | 0.91 | 9.8 | 18.9 | 5.8 | 1.4 | 2.3 | 1.02 | 93.63 |
| 5 | Bedrock | 60 | 0.98 | 14.2 | 13.8 | 4.9 | 1.9 | 3.05 | 1.8 | 100.63 |
| 6 | Bedrock | 59.2 | 1.11 | 13.2 | 14.2 | 5.2 | 1.6 | 2.68 | 1.73 | 98.92 |
| 7 | Nodule | 58 | 0.92 | 13 | 16.8 | 5.2 | 1.5 | 2.75 | 1.93 | 100.1 |
| 8 | Nodule | 51.8 | 0.93 | 10.7 | 20.8 | 5.9 | 1.3 | 2.57 | 1.26 | 95.26 |
| 9 | Bedrock | 57.7 | 1.06 | 13.8 | 15.7 | 5.8 | 1.8 | 2.87 | 1.64 | 100.37 |
| 10 | Bedrock | 60.1 | 0.89 | 12.6 | 15.4 | 5.4 | 1.4 | 2.67 | 1.76 | 100.22 |



# Target: Grarkinn

**Sol:** 2960
**Elev (m.):** -4090.56288715692
**CCAM Sequence ID:** CCAM02960

**Whole Target Classification:** Bedrock
**Lamination Strength:** Moderately Laminated
**Lamination Expression:** Primary Stratification
**Grain Visibility:** Below RMI Image Resolution
**Bedrock Appearance:** Shiny
**Nodule Presence:** Absent
**Nodule Diameter:** Absent
**Nodule Resistance:** Absent
**Fracture Presence:** Occasional (<10% by Visual Inspection)

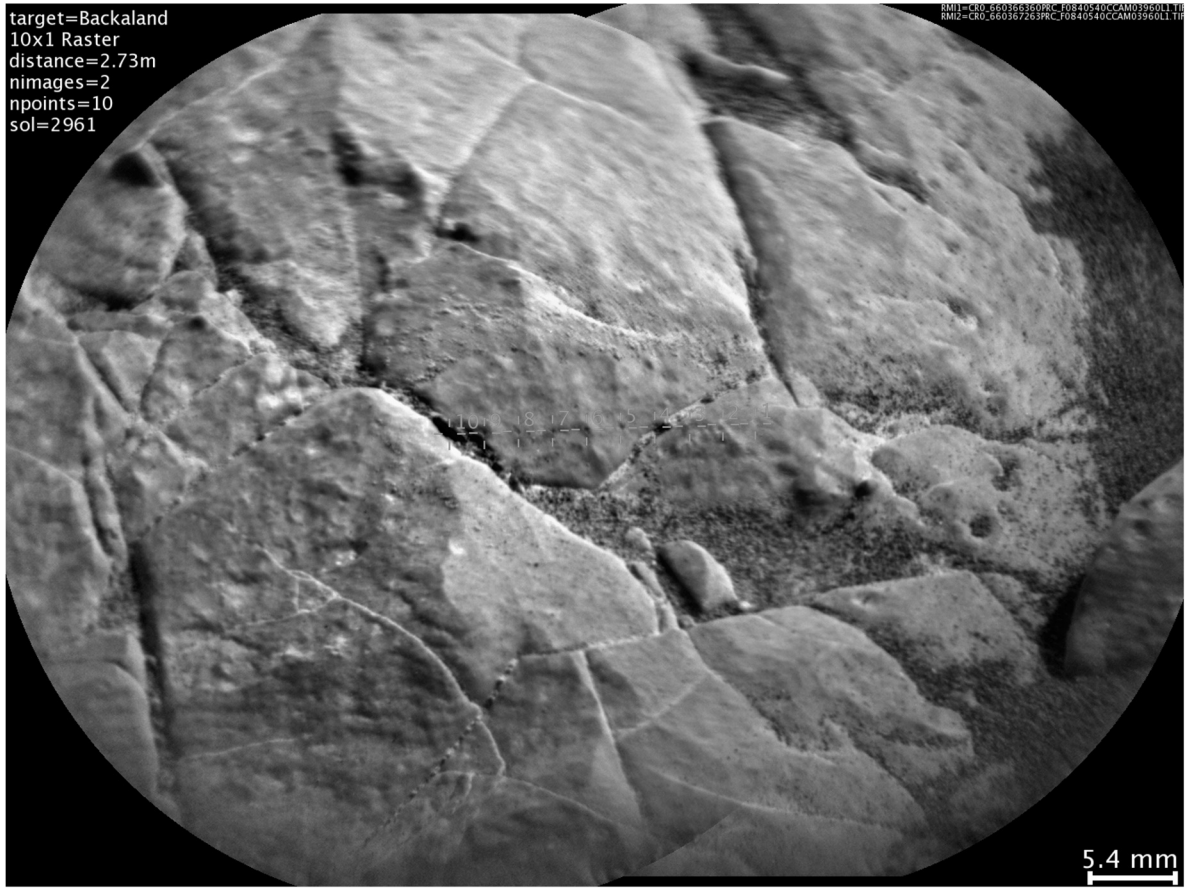
| # | Feature | SiO2 (wt%) | TiO2 (wt%) | Al2O3 (wt%) | FeOT (wt%) | MgO (wt%) | CaO (wt%) | Na2O (wt%) | K2O (wt%) | Sum of Oxides (wt%) |
|---|---|---|---|---|---|---|---|---|---|---|
| 1 | Bedrock | 55.1 | 1 | 12.1 | 19.3 | 6.2 | 1.3 | 2.76 | 1.84 | 99.6 |
| 2 | Bedrock | 52.5 | 0.96 | 10.6 | 19.5 | 5 | 1.2 | 2.58 | 1.65 | 93.99 |
| 3 | Bedrock | 56.5 | 0.99 | 11.9 | 18.6 | 5.9 | 1.4 | 2.71 | 1.82 | 99.82 |
| 4 | Bedrock | 53.6 | 0.97 | 11 | 20.9 | 5.8 | 1.2 | 2.54 | 1.72 | 97.73 |
| 5 | Bedrock | 57.1 | 0.93 | 11.7 | 18.5 | 5.3 | 1.4 | 2.99 | 1.94 | 99.86 |
| 6 | Bedrock | 52.9 | 1.07 | 11.9 | 22 | 5.4 | 1.3 | 2.61 | 1.45 | 98.63 |
| 7 | Bedrock | 57.3 | 1.08 | 12.2 | 19.2 | 5.4 | 1.7 | 2.92 | 1.79 | 101.59 |
| 8 | Bedrock | 57.4 | 1.17 | 11.3 | 18.8 | 5.9 | 1.7 | 2.67 | 1.71 | 100.65 |
| 9 | Bedrock | 57.7 | 0.94 | 13.1 | 18.1 | 5.7 | 1.5 | 2.95 | 1.93 | 101.92 |
| 10 | Bedrock | 55.8 | 0.93 | 11.7 | 18.8 | 5.9 | 1.6 | 2.68 | 1.69 | 99.1 |

# Target: Backaland

**Sol:** 2960
**Elev (m.):** -4090.29802763718
**CCAM Sequence ID:** CCAM03960

**Whole Target Classification:** Bedrock
**Lamination Strength:** Weakly Laminated
**Lamination Expression:** Primary Stratification
**Grain Visibility:** Below RMI Image Resolution
**Bedrock Appearance:** Dull
**Nodule Presence:** Absent
**Nodule Diameter:** Absent
**Nodule Resistance:** Absent
**Fracture Presence:** Occasional (<10% by Visual Inspection)

| # | Feature | SiO2 (wt%) | TiO2 (wt%) | Al2O3 (wt%) | FeOT (wt%) | MgO (wt%) | CaO (wt%) | Na2O (wt%) | K2O (wt%) | Sum of Oxides (wt%) |
|---|---|---|---|---|---|---|---|---|---|---|
| 1 | Bedrock | 57.2 | 0.93 | 10.5 | 16.4 | 5.7 | 1.7 | 2.55 | 1.54 | 96.52 |
| 2 | Bedrock | 56.5 | 0.9 | 10.9 | 17.4 | 5.9 | 1.6 | 2.55 | 1.47 | 97.22 |
| 3 | Bedrock | 54.7 | 1.07 | 11.6 | 19 | 6 | 1.8 | 2.68 | 1.59 | 98.44 |
| 4 | Vein or Fracture | 48.7 | 0.93 | 9.3 | 20.3 | 5.7 | 1.3 | 2.45 | 1.24 | 89.92 |
| 5 | Bedrock | 53.5 | 0.96 | 11.7 | 19.4 | 5.8 | 1.5 | 2.7 | 1.61 | 97.17 |
| 6 | Bedrock | 53.8 | 0.93 | 11.5 | 20.2 | 5.4 | 1.6 | 2.72 | 1.84 | 97.99 |
| 7 | Bedrock | 55.3 | 0.91 | 12.2 | 18.9 | 5.4 | 1.6 | 2.82 | 1.96 | 99.09 |
| 8 | Bedrock | 56.4 | 0.94 | 11.8 | 17.8 | 5.8 | 1.6 | 2.69 | 1.8 | 98.83 |
| 9 | Bedrock | 56.3 | 0.95 | 10.9 | 18.6 | 5.9 | 1.7 | 2.62 | 1.64 | 98.61 |
| 10 | Vein or Fracture | 53.7 | 0.69 | 10.8 | 17.8 | 7.5 | 4.3 | 2.47 | 0.67 | 97.93 |

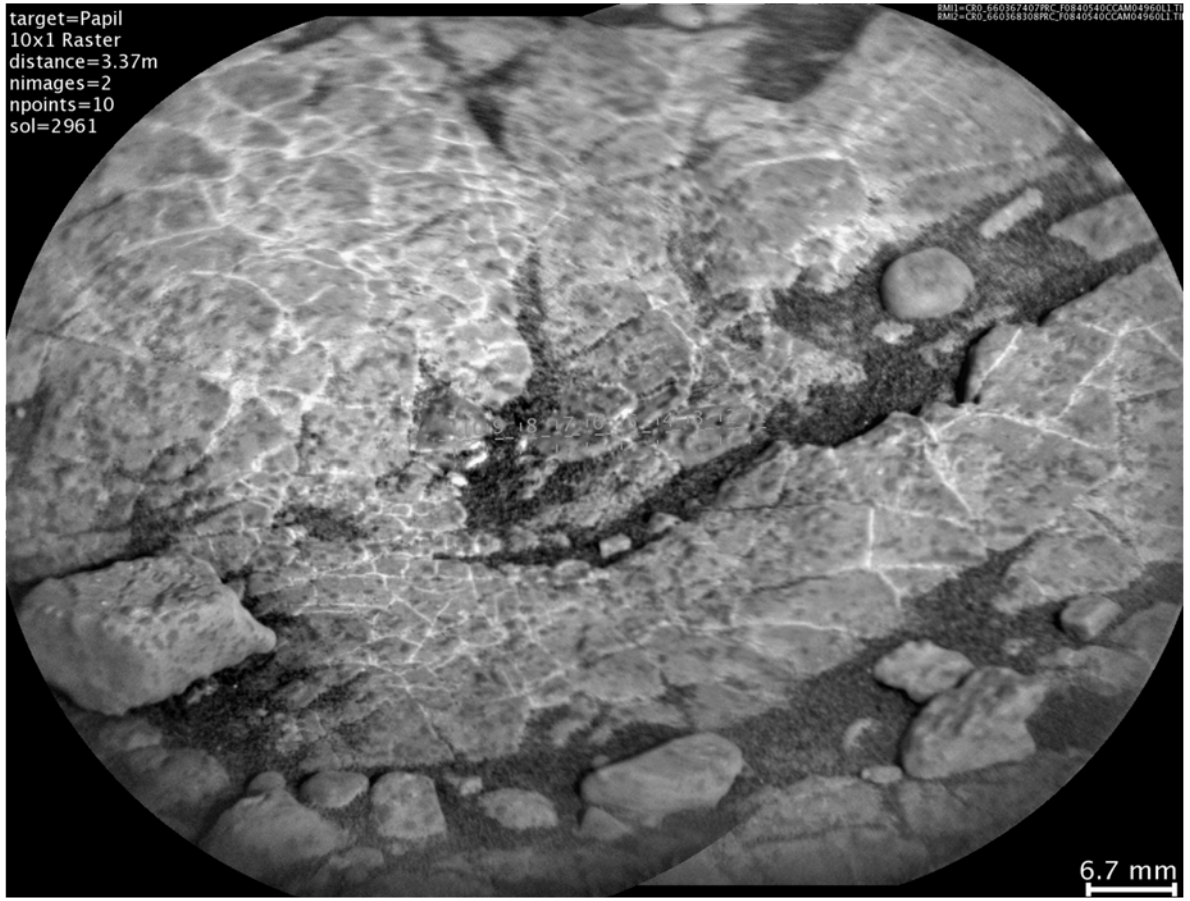


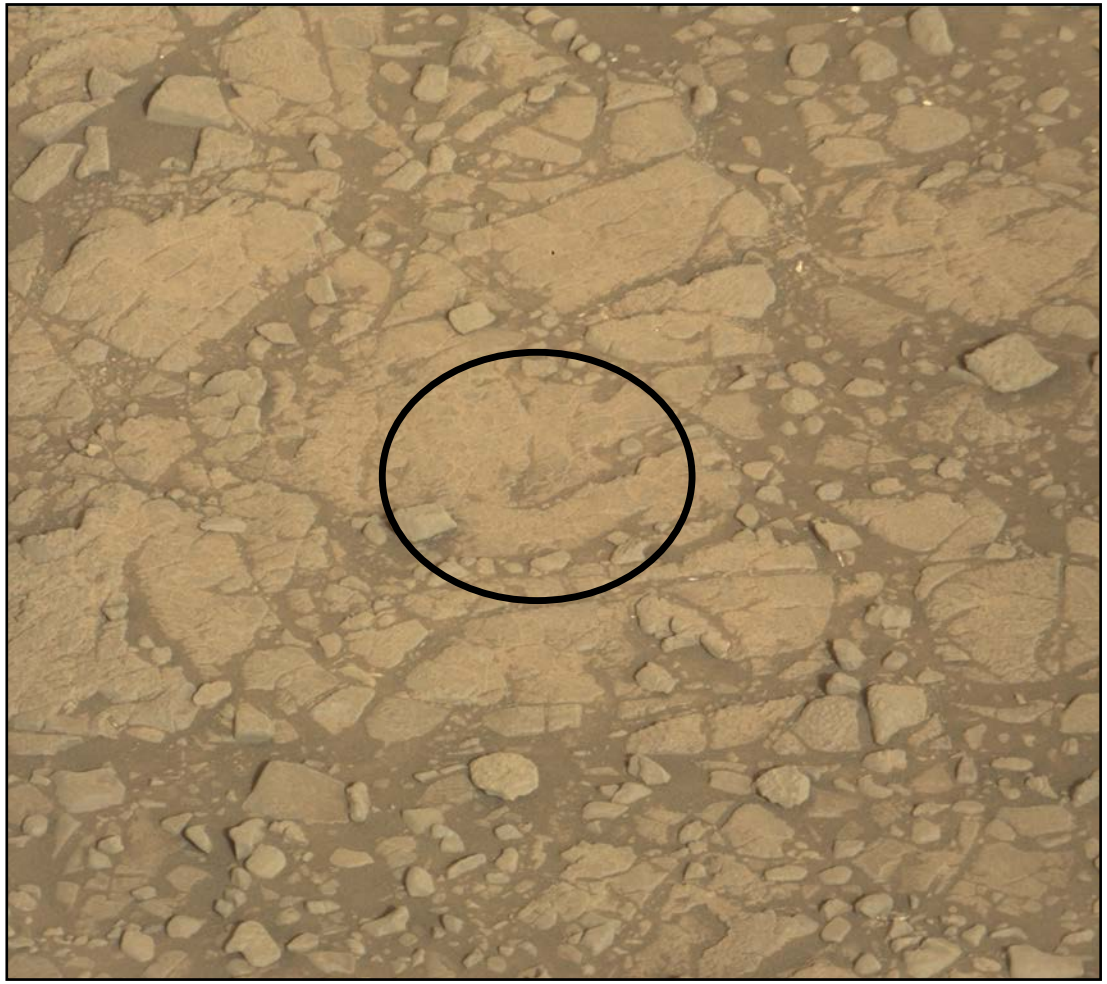
# Target: Papil

**Sol:** 2960
**Elev (m.):** -4090.46099659301
**CCAM Sequence ID:** CCAM04960

**Whole Target Classification:** Bedrock
**Lamination Strength:** Absent
**Lamination Expression:** Absent
**Grain Visibility:** Below RMI Image Resolution
**Bedrock Appearance:** Dull
**Nodule Presence:** Common (~30% by Visual Inspection
**Nodule Diameter:** Small (<1 mm)
**Nodule Resistance:** Protruding
**Fracture Presence:** Pervasive (>20% by Visual Inspection)

| # | Feature | SiO2 (wt%) | TiO2 (wt%) | Al2O3 (wt%) | FeOT (wt%) | MgO (wt%) | CaO (wt%) | Na2O (wt%) | K2O (wt%) | Sum of Oxides (wt%) |
|---|---|---|---|---|---|---|---|---|---|---|
| 1 | Bedrock | 50.5 | 0.97 | 11.3 | 18.3 | 4 | 1.4 | 2.77 | 1.47 | 90.71 |
| 2 | Bedrock | 57.2 | 1.06 | 14.1 | 17.5 | 5.3 | 1.7 | 3.13 | 2.05 | 102.04 |
| 3 | Bedrock | 58.2 | 0.96 | 14 | 16.7 | 5.2 | 1.9 | 3.05 | 2.06 | 102.07 |
| 4 | Bedrock | 56.7 | 0.93 | 14.2 | 17.6 | 4.9 | 2.1 | 2.96 | 1.77 | 101.16 |
| 5 | Bedrock | 59.4 | 0.94 | 13.6 | 15.1 | 5.2 | 1.7 | 3.28 | 2.28 | 101.5 |
| 6 | Bedrock | 57.2 | 1 | 12 | 17 | 6.7 | 1.7 | 2.75 | 1.69 | 100.04 |
| 7 | Bedrock | 56.6 | 0.96 | 12.4 | 18.5 | 5.9 | 1.6 | 2.96 | 1.87 | 100.79 |
| 8 | Vein or Fracture | 55.1 | 1 | 13.6 | 19.2 | 6 | 2.9 | 2.96 | 0.93 | 101.69 |
| 9 | Sand | 46 | 0.92 | 9.4 | 23.2 | 3.3 | 1.4 | 2.73 | 1.22 | 88.17 |
| 10 | Bedrock | 59 | 0.97 | 14.2 | 16 | 5.2 | 1.7 | 3.55 | 2.52 | 103.14 |



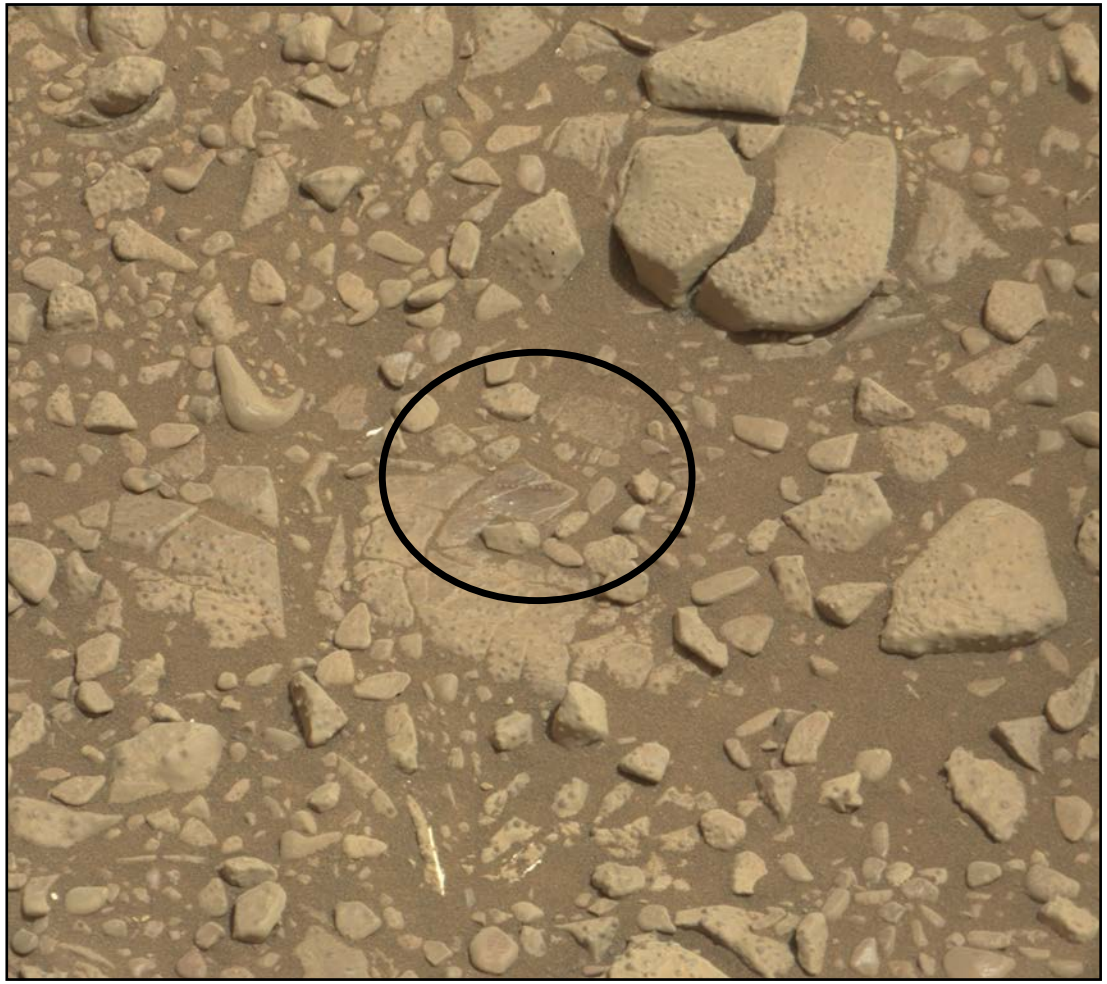



# Target: MacBrayne

**Sol:** 2962
**Elev (m.):** -4090.40029614208
**CCAM Sequence ID:** CCAM01962

**Whole Target Classification:** Bedrock
**Lamination Strength:** Weakly Laminated
**Lamination Expression:** Primary Stratification
**Grain Visibility:** Below RMI Image Resolution
**Bedrock Appearance:** Shiny
**Nodule Presence:** Common (~30% by Visual Inspection)
**Nodule Diameter:** Medium (1 - 3 mm)
**Nodule Resistance:** Protruding
**Fracture Presence:** Occasional (<10% by Visual Inspection)

| # | Feature | SiO2 (wt%) | TiO2 (wt%) | Al2O3 (wt%) | FeOT (wt%) | MgO (wt%) | CaO (wt%) | Na2O (wt%) | K2O (wt%) | Sum of Oxides (wt%) |
|---|---|---|---|---|---|---|---|---|---|---|
| 1 | Bedrock | 52.2 | 0.99 | 10.3 | 18.7 | 7.4 | 1.4 | 2.44 | 1.12 | 94.55 |
| 2 | Bedrock | 51.5 | 1.02 | 9.8 | 18.2 | 6.8 | 1.4 | 2.51 | 1.06 | 92.29 |
| 3 | Bedrock | 48 | 1 | 9.1 | 19.1 | 5.4 | 1.2 | 2.37 | 0.93 | 87.1 |
| 4 | Bedrock | 51.2 | 0.99 | 9.7 | 19.6 | 7.1 | 1.4 | 2.46 | 1.07 | 93.52 |
| 5 | Bedrock | 53.9 | 1.03 | 9.3 | 17.9 | 6.6 | 1.2 | 2.48 | 1.34 | 93.75 |
| 6 | Bedrock | 48.1 | 0.97 | 8.7 | 19.4 | 5 | 1.1 | 2.27 | 0.8 | 86.34 |
| 7 | Bedrock | 54.4 | 0.96 | 10.6 | 17.6 | 7 | 1.4 | 2.48 | 1.4 | 95.84 |
| 8 | Bedrock | 54.5 | 0.96 | 11.1 | 18 | 6.4 | 1.5 | 2.54 | 1.32 | 96.32 |
| 9 | Bedrock | 54.3 | 0.99 | 10.9 | 17.7 | 7 | 1.4 | 2.56 | 1.29 | 96.14 |
| 10 | Bedrock | 54.2 | 1.01 | 10.5 | 17.3 | 6.6 | 1.5 | 2.74 | 1.5 | 95.35 |

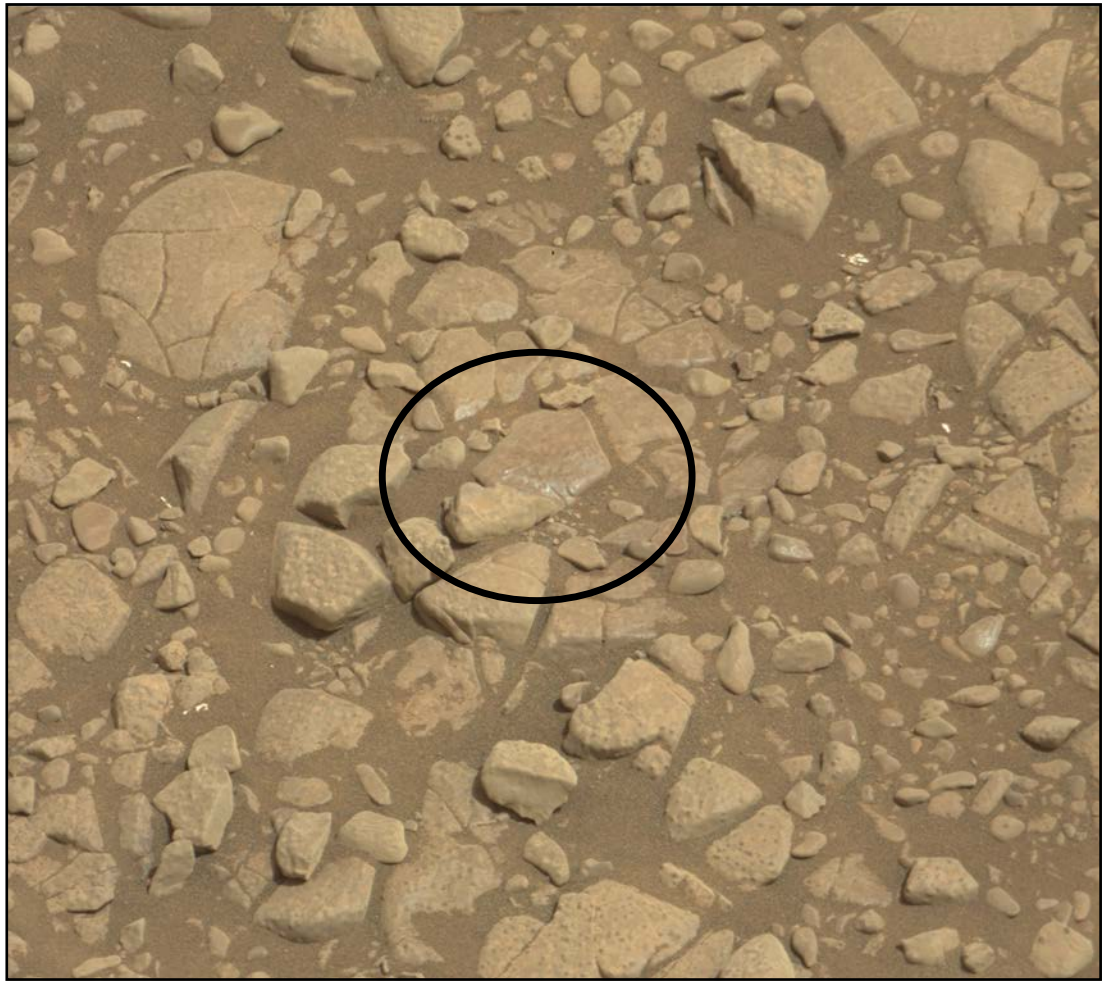


# Target: Luncarty

**Sol:** 2962
**Elev (m.):** -4090.36962329363
**CCAM Sequence ID:** CCAM02962

**Whole Target Classification:** Bedrock
**Lamination Strength:** Absent
**Lamination Expression:** Absent
**Grain Visibility:** Below RMI Image Resolution
**Bedrock Appearance:** Shiny
**Nodule Presence:** Common (~30% by Visual Inspection)
**Nodule Diameter:** Medium (1 - 3 mm)
**Nodule Resistance:** Protruding
**Fracture Presence:** Occasional (<10% by Visual Inspection)

| # | Feature | SiO2 (wt%) | TiO2 (wt%) | Al2O3 (wt%) | FeOT (wt%) | MgO (wt%) | CaO (wt%) | Na2O (wt%) | K2O (wt%) | Sum of Oxides (wt%) |
|---|---|---|---|---|---|---|---|---|---|---|
| 1 | Bedrock | 52.8 | 1.1 | 11.7 | 20.1 | 5.7 | 1.6 | 2.57 | 1.79 | 97.36 |
| 2 | Bedrock | 52.3 | 0.94 | 11.8 | 21.3 | 4.7 | 1.5 | 2.71 | 1.67 | 96.92 |
| 3 | Bedrock | 53.3 | 0.99 | 11.9 | 21 | 4.9 | 1.5 | 2.66 | 1.73 | 97.98 |
| 4 | Bedrock | 53.2 | 0.98 | 12.1 | 20.9 | 5 | 1.6 | 2.66 | 1.7 | 98.14 |
| 5 | Bedrock | 55.5 | 0.96 | 12.3 | 18.6 | 5.3 | 1.5 | 2.75 | 2.01 | 98.92 |
| 6 | Bedrock | 56.9 | 0.96 | 12.3 | 17.6 | 5.6 | 1.6 | 2.61 | 1.87 | 99.44 |
| 7 | Bedrock | 57.3 | 1.12 | 13.4 | 16.1 | 5.4 | 1.7 | 2.83 | 1.98 | 99.83 |
| 8 | Bedrock | 56.8 | 0.92 | 11.8 | 17.8 | 5.4 | 1.5 | 2.75 | 2.06 | 99.03 |
| 9 | Bedrock | 55.4 | 0.95 | 11.9 | 19.5 | 5.1 | 1.6 | 2.76 | 1.92 | 99.13 |
| 10 | Bedrock | 56.6 | 0.95 | 11.8 | 17.7 | 5.1 | 1.5 | 2.9 | 2.05 | 98.6 |

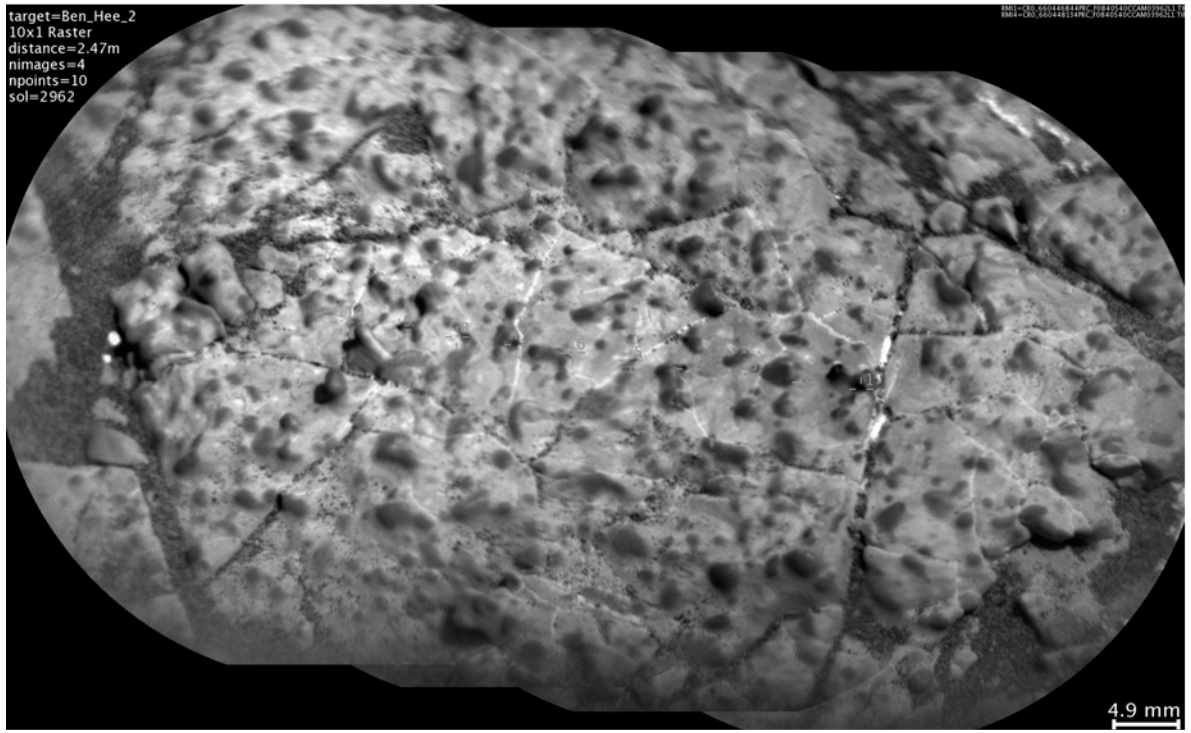


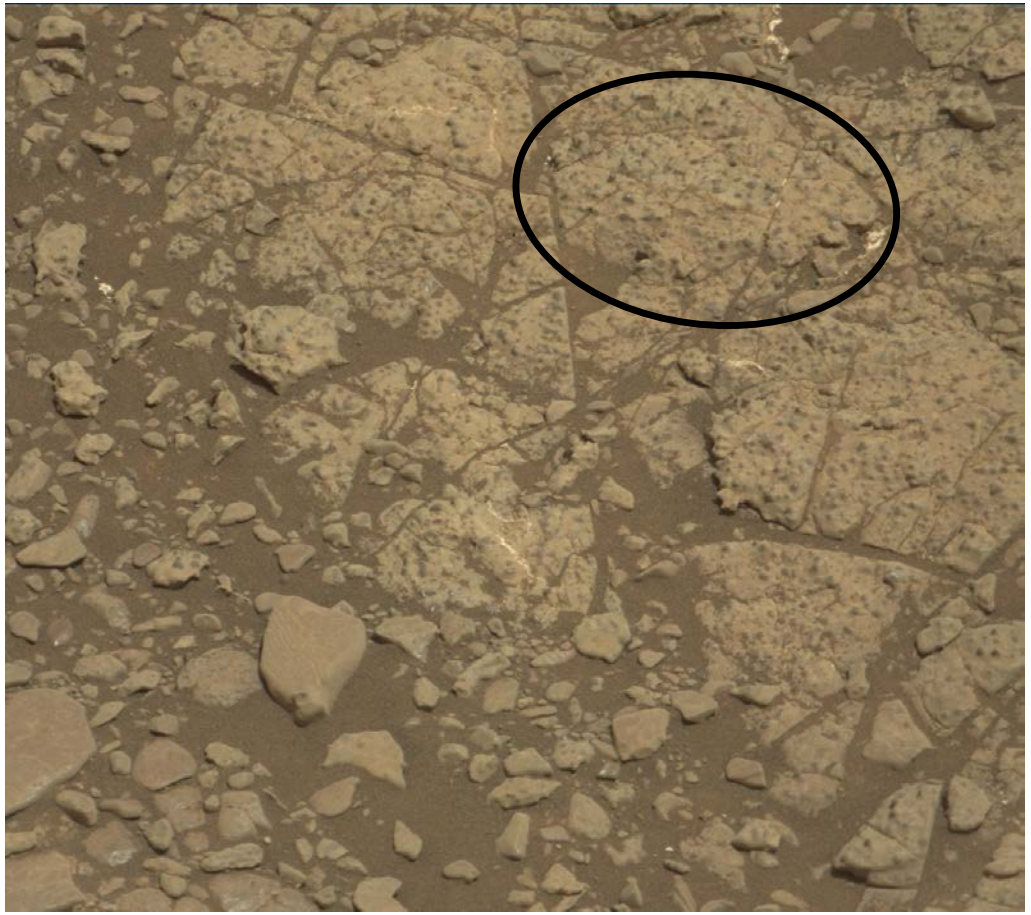
# Target: Ben_Hee_2

**Sol:** 2962
**Elev (m.):** -4090.47884208942
**CCAM Sequence ID:** CCAM03962

**Whole Target Classification:** Bedrock
**Lamination Strength:** Absent
**Lamination Expression:** Absent
**Grain Visibility:** Below RMI Image Resolution
**Bedrock Appearance:** Dull
**Nodule Presence:** Common (~30% by Visual Inspection
**Nodule Diameter:** Medium (1 - 3 mm)
**Nodule Resistance:** Protruding
**Fracture Presence:** Common (~10-20% by Visual Inspection)

| # | Feature | SiO2 (wt%) | TiO2 (wt%) | Al2O3 (wt%) | FeOT (wt%) | MgO (wt%) | CaO (wt%) | Na2O (wt%) | K2O (wt%) | Sum of Oxides (wt%) |
|---|---|---|---|---|---|---|---|---|---|---|
| 1 | Nodule | 42.9 | 0.91 | 8 | 26.2 | 3.6 | 1 | 2.04 | 0.78 | 85.43 |
| 2 | Bedrock | 58.8 | 1.05 | 13.2 | 13.5 | 5.4 | 1.7 | 2.84 | 1.64 | 98.13 |
| 3 | Bedrock | 61.1 | 0.91 | 12.2 | 12.7 | 4.7 | 1.6 | 2.98 | 1.87 | 98.06 |
| 4 | Nodule | 51.8 | 0.91 | 11.5 | 20.8 | 4.5 | 1.4 | 2.74 | 1.61 | 95.26 |
| 5 | Bedrock | 59.3 | 0.93 | 12.5 | 14.5 | 5.4 | 1.6 | 2.71 | 1.67 | 98.61 |
| 6 | Bedrock | 59.1 | 0.93 | 13.8 | 14.1 | 5 | 2 | 2.93 | 1.73 | 99.59 |
| 7 | Nodule | 42 | 0.83 | 8.7 | 27.6 | 3.7 | 1 | 2.69 | 1.01 | 87.53 |
| 8 | Bedrock | 59.3 | 0.96 | 13.7 | 14.8 | 5 | 1.8 | 2.86 | 1.6 | 100.02 |
| 9 | Nodule | 50.7 | 0.95 | 10.7 | 19.4 | 4.9 | 1.4 | 2.45 | 1.05 | 91.55 |
| 10 | Bedrock | 60.9 | 0.94 | 12.1 | 12.6 | 5 | 1.6 | 2.96 | 1.84 | 97.94 |



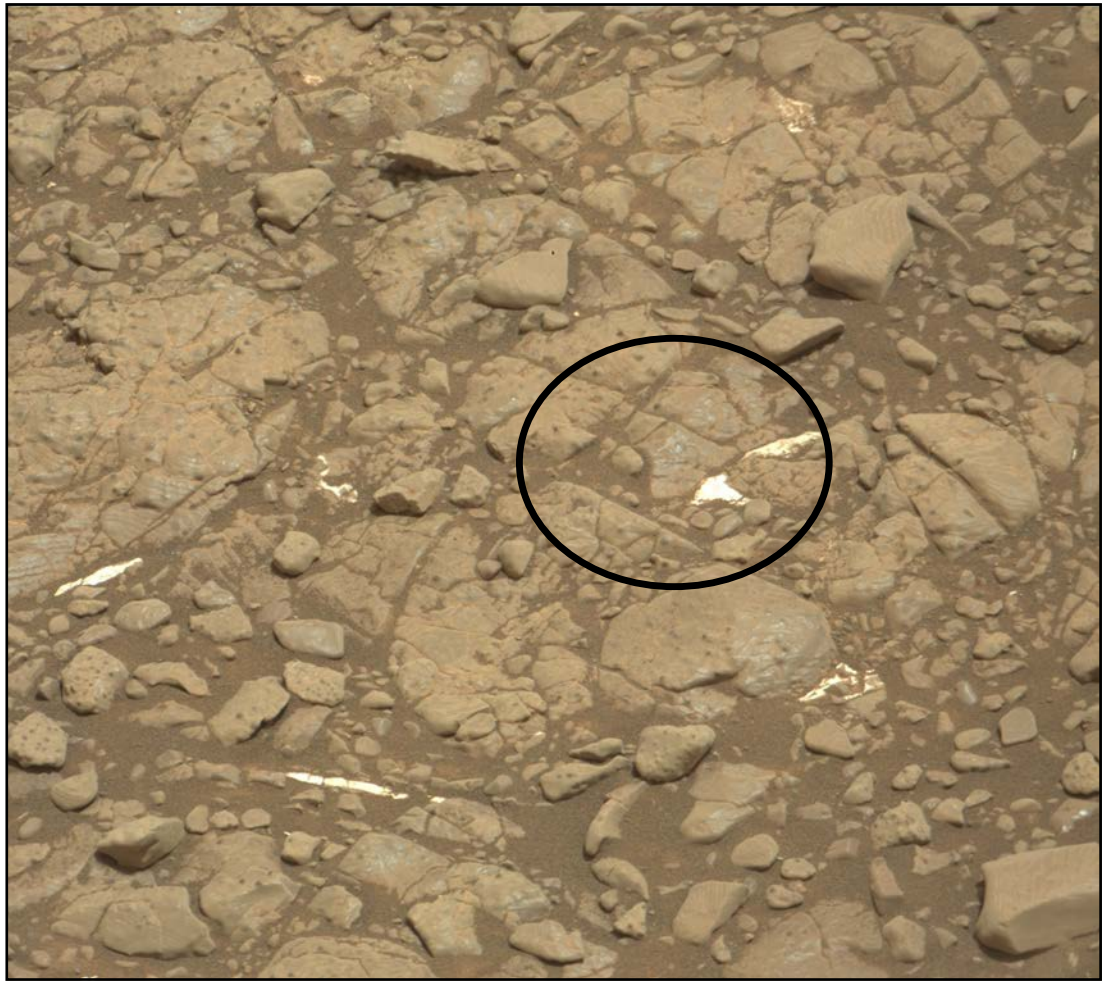



# Target: White_Coomb

**Sol:** 2965
**Elev (m.):** -4090.43255348888
**CCAM Sequence ID:** CCAM01965

**Whole Target Classification:** Bedrock
**Lamination Strength:** Weakly Laminated
**Lamination Expression:** Primary Stratification
**Grain Visibility:** Unclear
**Bedrock Appearance:** Shiny
**Nodule Presence:** Common (~30% by Visual Inspection)
**Nodule Diameter:** Medium (1 - 3 mm)
**Nodule Resistance:** Protruding
**Fracture Presence:** Common (~10-20% by Visual Inspection)

| # | Feature | SiO2 (wt%) | TiO2 (wt%) | Al2O3 (wt%) | FeOT (wt%) | MgO (wt%) | CaO (wt%) | Na2O (wt%) | K2O (wt%) | Sum of Oxides (wt%) |
|---|---|---|---|---|---|---|---|---|---|---|
| 1 | Bedrock | 52.3 | 0.98 | 11.5 | 21.4 | 5.4 | 1.2 | 2.82 | 1.79 | 97.39 |
| 2 | Bedrock | 54.9 | 0.93 | 12.3 | 19.6 | 5.6 | 1.4 | 2.94 | 2.03 | 99.7 |
| 3 | Vein or Fracture | 49.9 | 0.76 | 10.2 | 14.2 | 4.7 | 12.1 | 1.75 | 0.93 | 94.54 |
| 4 | Vein or Fracture | 2.2 | 0 | 0.4 | 0.1 | 1 | 38.3 | 0.09 | 0.02 | 42.11 |
| 5 | Vein or Fracture | 7.8 | 0 | 1.9 | 0.5 | 1.2 | 37.4 | 0.17 | 0.06 | 49.03 |
| 6 | Vein or Fracture | 9.9 | 0.51 | 2.8 | 6.8 | 2.4 | 34.5 | 0.42 | 0.05 | 57.38 |
| 7 | Bedrock | 53.5 | 0.91 | 11.3 | 19.3 | 6.8 | 1.6 | 2.66 | 1.54 | 97.61 |
| 8 | Bedrock | 52.1 | 0.92 | 11.4 | 20.4 | 6.5 | 1.3 | 2.8 | 1.43 | 96.85 |
| 9 | Bedrock | 47.4 | 0.97 | 9.6 | 20.9 | 8.4 | 1 | 2.42 | 1.09 | 91.78 |
| 10 | Bedrock | 53.7 | 1.11 | 11.5 | 19.6 | 6.7 | 1.5 | 2.74 | 1.69 | 98.54 |

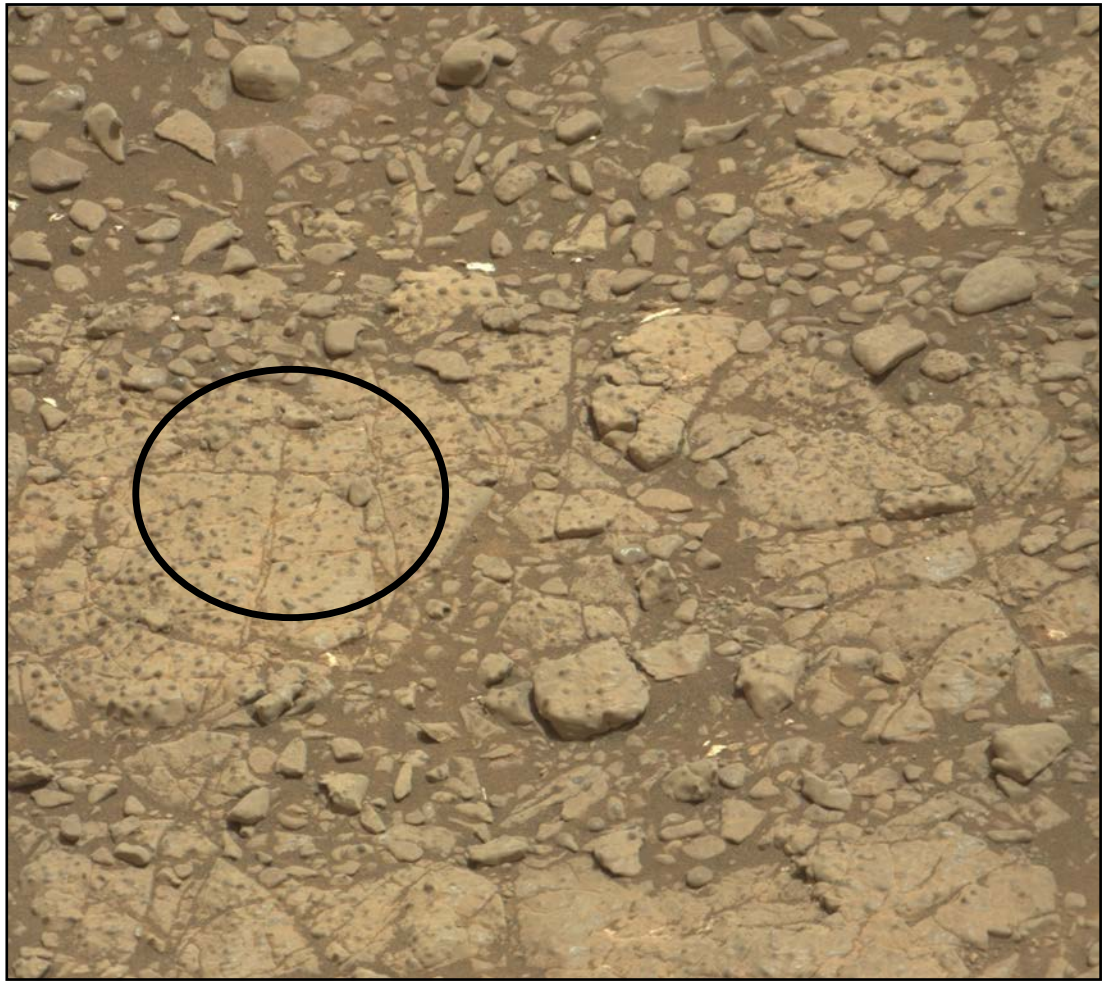


# Target: Rattray

**Sol:** 2965
**Elev (m.):** -4090.45719090231
**CCAM Sequence ID:** CCAM02965

**Whole Target Classification:** Bedrock
**Lamination Strength:** Absent
**Lamination Expression:** Absent
**Grain Visibility:** Below RMI Image Resolution
**Bedrock Appearance:** Dull
**Nodule Presence:** Common (~30% by Visual Inspection
**Nodule Diameter:** Medium (1 - 3 mm)
**Nodule Resistance:** Protruding
**Fracture Presence:** Common (~10-20% by Visual Inspection)

| # | Feature | SiO2 (wt%) | TiO2 (wt%) | Al2O3 (wt%) | FeOT (wt%) | MgO (wt%) | CaO (wt%) | Na2O (wt%) | K2O (wt%) | Sum of Oxides (wt%) |
|---|---|---|---|---|---|---|---|---|---|---|
| 1 | Bedrock | 56.4 | 0.89 | 11.7 | 15.3 | 7.6 | 1.6 | 2.05 | 1.07 | 96.61 |
| 2 | Nodule | 42.4 | 0.88 | 8.2 | 29.2 | 3.5 | 0.9 | 2.44 | 0.82 | 88.34 |
| 3 | Bedrock | 56.3 | 0.92 | 12.1 | 16.4 | 8 | 1.7 | 2.51 | 1.37 | 99.3 |
| 4 | Bedrock | 59.5 | 0.94 | 12.1 | 13.3 | 6.5 | 1.5 | 2.83 | 1.68 | 98.35 |
| 5 | Bedrock | 57.7 | 1.05 | 13.8 | 16 | 6.3 | 1.9 | 2.66 | 1.48 | 100.89 |
| 6 | Bedrock | 56.3 | 0.92 | 13.8 | 17.2 | 6.5 | 1.7 | 2.57 | 1.31 | 100.3 |
| 7 | Bedrock | 60.4 | 0.92 | 12.5 | 12.4 | 6.7 | 1.5 | 2.7 | 1.83 | 98.95 |
| 8 | Nodule | 47.1 | 0.9 | 8.7 | 20.5 | 4.1 | 0.9 | 2.52 | 1.04 | 85.76 |
| 9 | Bedrock | 57.7 | 0.91 | 13.4 | 16.1 | 5.6 | 1.8 | 2.94 | 1.83 | 100.28 |
| 10 | Bedrock | 58.8 | 0.95 | 13.3 | 16.8 | 5.3 | 1.4 | 2.84 | 2.03 | 101.42 |

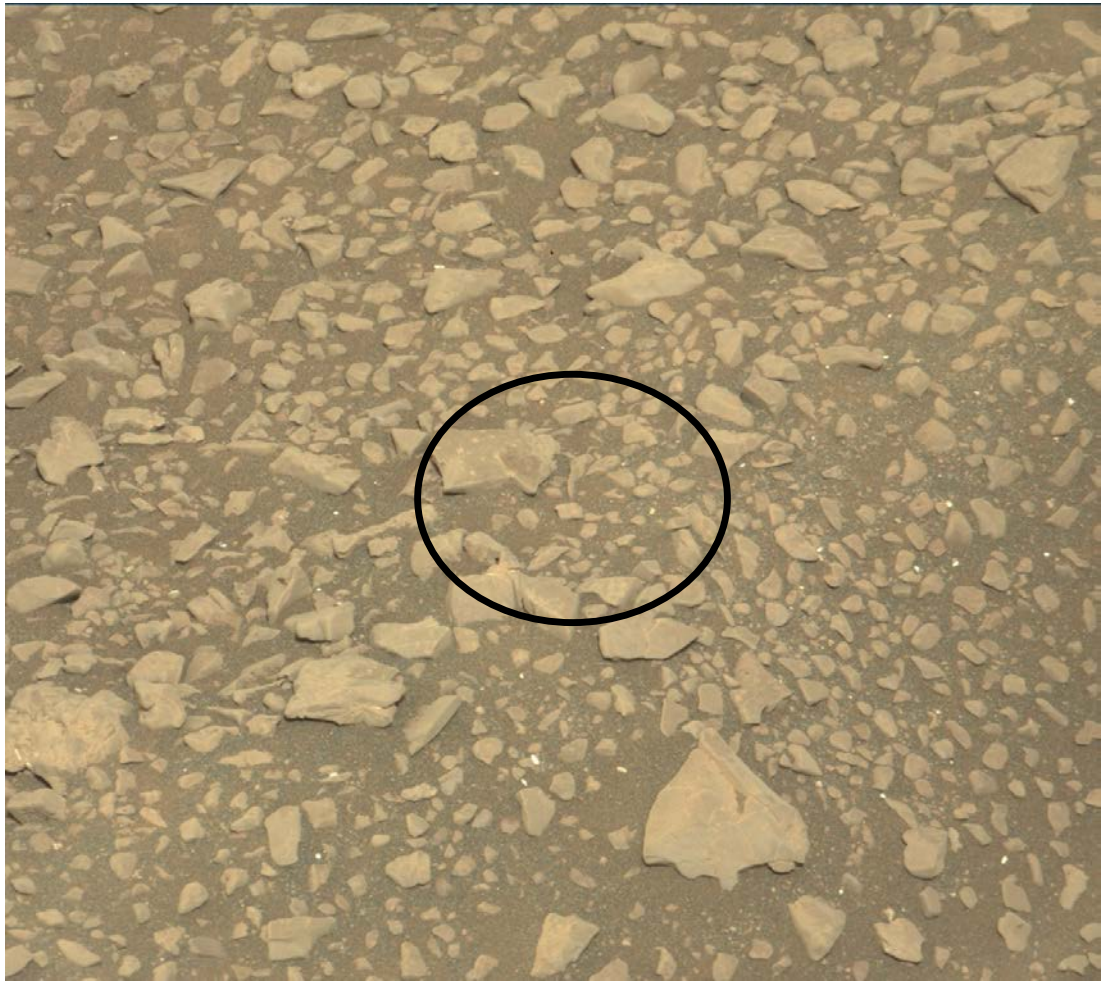


# Target: aegis_post_2966a

**Sol:** 2965
**Elev (m.):** -4088.52259941586
**CCAM Sequence ID:** CCAM03965

**Whole Target Classification:** Float
**Lamination Strength:** Absent
**Lamination Expression:** Absent
**Grain Visibility:** Below RMI Image Resolution
**Bedrock Appearance:** Dull
**Nodule Presence:** Absent
**Nodule Diameter:** Absent
**Nodule Resistance:** Absent
**Fracture Presence:** Absent

| # | Feature | SiO2 (wt%) | TiO2 (wt%) | Al2O3 (wt%) | FeOT (wt%) | MgO (wt%) | CaO (wt%) | Na2O (wt%) | K2O (wt%) | Sum of Oxides (wt%) |
|---|---|---|---|---|---|---|---|---|---|---|
| 1 | Bedrock | 50.5 | 0.96 | 9.4 | 19.2 | 3.9 | 1.1 | 2.52 | 1.22 | 88.8 |
| 2 | Bedrock | 56.3 | 0.98 | 12.1 | 19 | 4.3 | 1.4 | 2.84 | 1.8 | 98.72 |
| 3 | Bedrock | 55 | 1 | 11.9 | 19.9 | 4.6 | 1.3 | 2.82 | 1.85 | 98.37 |
| 4 | Bedrock | 55.3 | 0.92 | 11 | 18.8 | 4.7 | 2.7 | 2.4 | 1.5 | 97.32 |
| 5 | Bedrock | 57.3 | 0.95 | 12.2 | 19.7 | 4.4 | 1.2 | 2.78 | 1.85 | 100.38 |
| 6 | Bedrock | 56.5 | 1.02 | 11.8 | 19.1 | 5.4 | 1.4 | 2.81 | 1.72 | 99.75 |
| 7 | Bedrock | 56.4 | 0.93 | 12 | 20 | 4.7 | 1.4 | 2.66 | 1.64 | 99.73 |
| 8 | Bedrock | 57.4 | 0.84 | 14.1 | 20.1 | 4.5 | 1.6 | 3.17 | 1.84 | 103.55 |
| 9 | Bedrock | 54.8 | 1 | 12.3 | 20.7 | 4.9 | 1.7 | 2.34 | 0.91 | 98.65 |

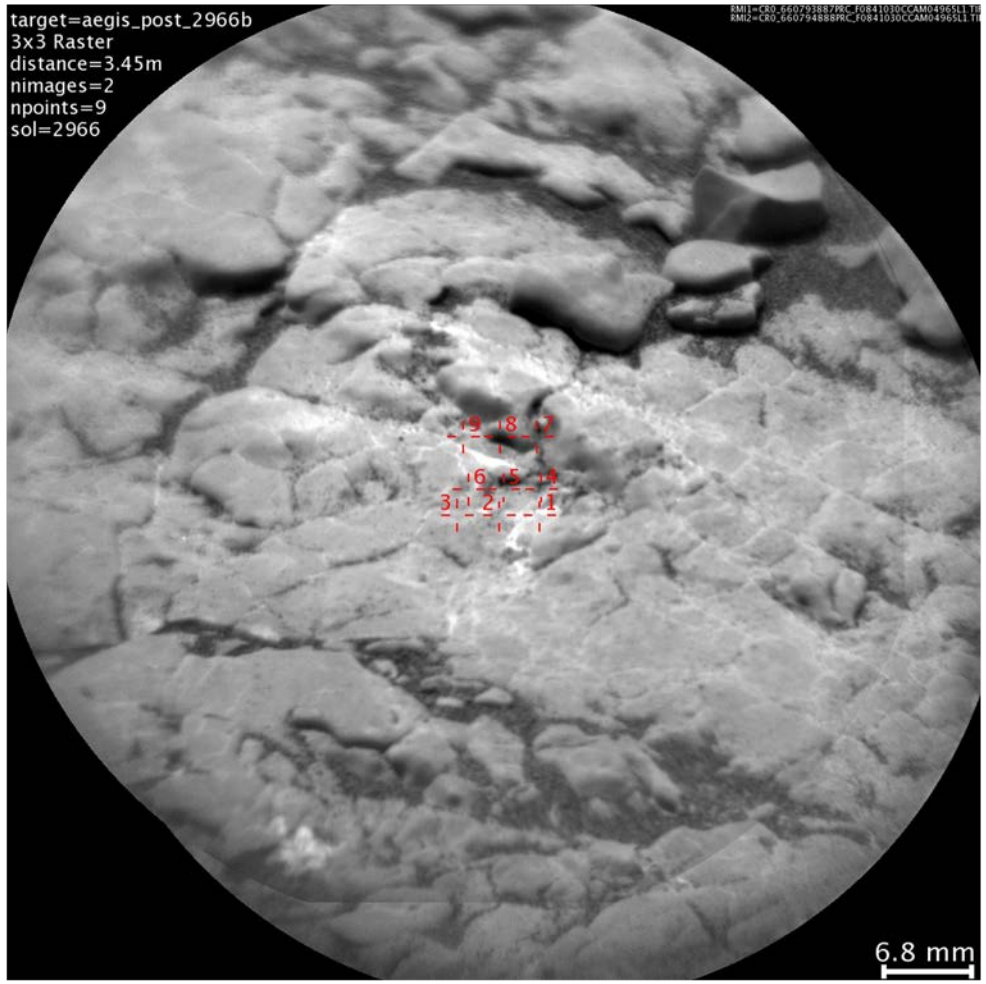


# Target: aegis_post_2966b

**Sol:** 2965
**Elev (m.):** -4087.79089141586
**CCAM Sequence ID:** CCAM04965

**Whole Target Classification:** Bedrock
**Lamination Strength:** Absent
**Lamination Expression:** Absent
**Grain Visibility:** Below RMI Image Resolution
**Bedrock Appearance:** Dull
**Nodule Presence:** Common (~30% by Visual Inspection
**Nodule Diameter:** Medium (1 - 3 mm)
**Nodule Resistance:** Protruding
**Fracture Presence:** Pervasive (>20% by Visual Inspection)

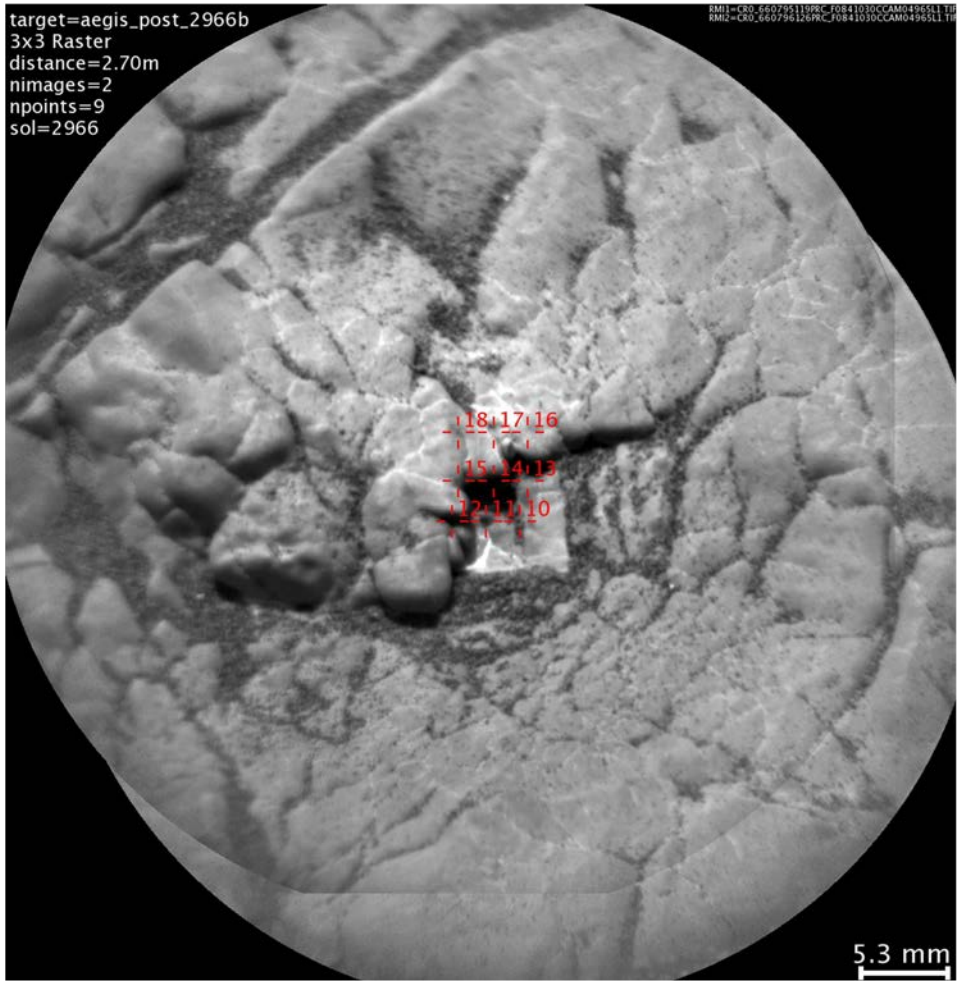
| # | Feature | SiO2 (wt%) | TiO2 (wt%) | Al2O3 (wt%) | FeOT (wt%) | MgO (wt%) | CaO (wt%) | Na2O (wt%) | K2O (wt%) | Sum of Oxides (wt%) |
|---|---|---|---|---|---|---|---|---|---|---|
| 1 | Vein or Fracture | 51.3 | 0.8 | 13.3 | 15.9 | 3.6 | 10.3 | 2.09 | 1.51 | 98.8 |
| 2 | Bedrock | 57.6 | 0.96 | 13.3 | 19.3 | 5.1 | 1.6 | 3.01 | 2.21 | 103.08 |
| 3 | Bedrock | 59.8 | 0.93 | 14.3 | 17.7 | 4.6 | 1.6 | 3.19 | 2.41 | 104.53 |
| 4 | Bedrock | 55 | 1 | 13.3 | 20.5 | 4.9 | 1.5 | 3.03 | 2.19 | 101.42 |
| 5 | Bedrock | 56.9 | 0.91 | 13.5 | 19.9 | 5 | 2 | 2.96 | 1.86 | 103.03 |
| 6 | Bedrock | 57.3 | 1.05 | 14.1 | 19.5 | 4.8 | 1.5 | 3.18 | 2.28 | 103.71 |
| 7 | Bedrock | 55.7 | 0.97 | 15 | 20.2 | 5.2 | 1.2 | 2.84 | 1.87 | 102.98 |
| 8 | Bedrock | 58.2 | 0.97 | 14.5 | 19.9 | 4.7 | 1.2 | 3.58 | 2.8 | 105.85 |
| 9 | Bedrock | 57.3 | 1.02 | 13.8 | 19 | 5.5 | 1.5 | 3.49 | 2.6 | 104.21 |



# Target: aegis_post_2966c

**Sol:** 2965
**Elev (m.):** -4088.00028941586
**CCAM Sequence ID:**

**Whole Target Classification:** Bedrock
**Lamination Strength:** Absent
**Lamination Expression:** Absent
**Grain Visibility:** Below RMI Image Resolution
**Bedrock Appearance:** Dull
**Nodule Presence:** Common (~30% by Visual Inspection
**Nodule Diameter:** Medium (1 - 3 mm)
**Nodule Resistance:** Protruding
**Fracture Presence:** Pervasive (>20% by Visual Inspection)



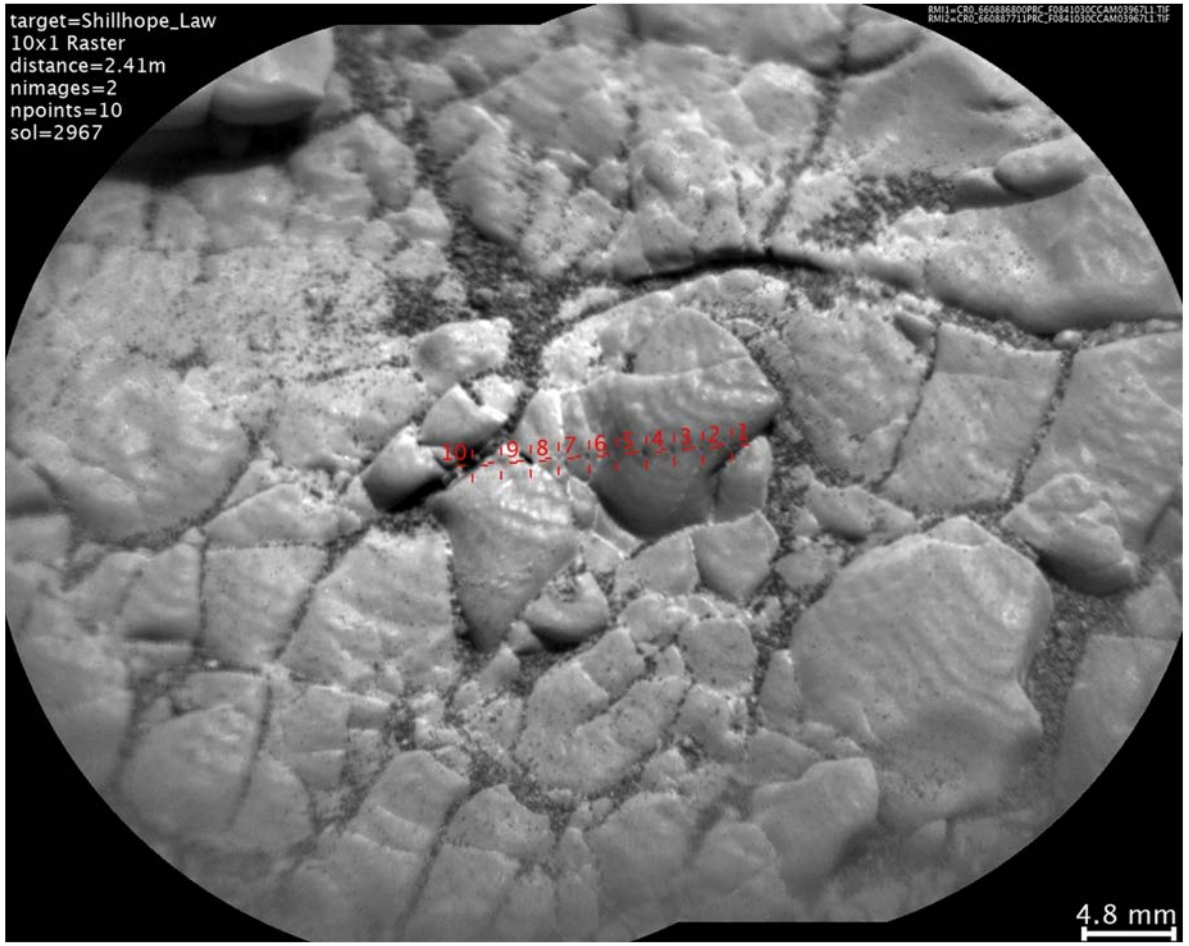

| # | Feature | SiO2 (wt%) | TiO2 (wt%) | Al2O3 (wt%) | FeOT (wt%) | MgO (wt%) | CaO (wt%) | Na2O (wt%) | K2O (wt%) | Sum of Oxides (wt%) |
|---|---|---|---|---|---|---|---|---|---|---|
| 10 | Vein or Fracture | 51.1 | 1.02 | 11.4 | 20.4 | 5.3 | 3.6 | 2.68 | 1.49 | 96.99 |

# Target: Shillhope_Law

**Sol:** 2967
**Elev (m.):** -4088.25336534634
**CCAM Sequence ID:** CCAM03967

**Whole Target Classification:** Bedrock
**Lamination Strength:** Moderately Laminated
**Lamination Expression:** Primary Stratification
**Grain Visibility:** Below RMI Image Resolution
**Bedrock Appearance:** Shiny
**Nodule Presence:** Absent
**Nodule Diameter:** Absent
**Nodule Resistance:** Absent
**Fracture Presence:** Common (~10-20% by Visual Inspection)

| # | Feature | SiO2 (wt%) | TiO2 (wt%) | Al2O3 (wt%) | FeOT (wt%) | MgO (wt%) | CaO (wt%) | Na2O (wt%) | K2O (wt%) | Sum of Oxides (wt%) |
|---|---|---|---|---|---|---|---|---|---|---|
| 1 | Bedrock | 51.7 | 0.95 | 11 | 21 | 5.5 | 1.3 | 2.79 | 1.87 | 96.11 |
| 2 | Bedrock | 54.6 | 1.05 | 11.7 | 19.2 | 5.9 | 1.4 | 2.74 | 1.98 | 98.57 |
| 3 | Bedrock | 53.9 | 1 | 12.3 | 20.5 | 5.6 | 1.6 | 2.62 | 1.75 | 99.27 |
| 4 | Bedrock | 51.6 | 1.01 | 10.5 | 19.6 | 4.6 | 1.4 | 2.45 | 1.6 | 92.76 |
| 5 | Bedrock | 53.5 | 0.98 | 9.6 | 21.6 | 4.7 | 1.2 | 2.74 | 1.81 | 96.13 |
| 6 | Bedrock | 54.3 | 1.12 | 11.9 | 21.1 | 4.9 | 1.6 | 2.6 | 1.85 | 99.37 |
| 7 | Bedrock | 57.4 | 0.94 | 12.9 | 16.8 | 4.9 | 1.7 | 3.13 | 2.01 | 99.78 |
| 8 | Vein or Fracture | 50.5 | 0.81 | 11 | 20 | 8.5 | 2.9 | 2.39 | 0.97 | 97.07 |
| 9 | Bedrock | 55.8 | 0.99 | 10.4 | 19.8 | 5 | 1.4 | 2.72 | 1.85 | 97.96 |
| 10 | Sand | 45.2 | 0.66 | 8.7 | 16.2 | 5.8 | 4.4 | 8.88 | 0.28 | 90.12 |

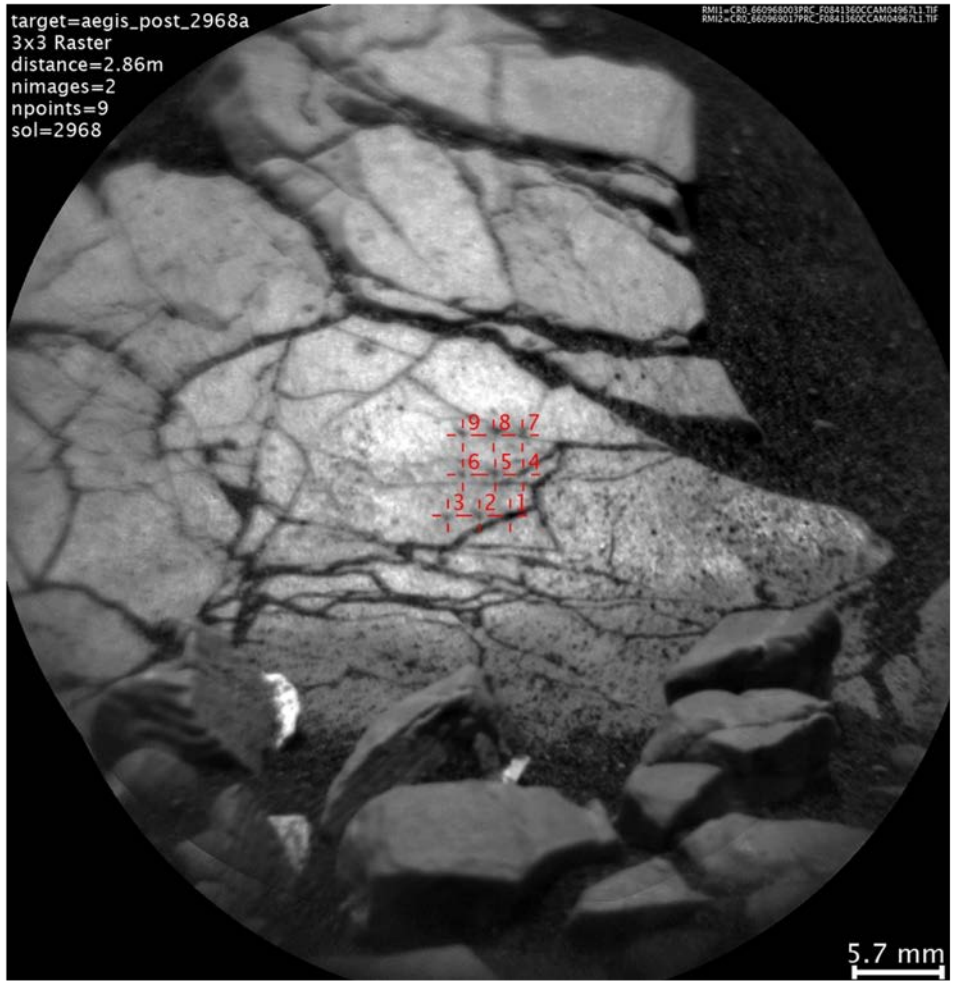


# Target: aegis_post_2968a

**Sol:** 2967
**Elev (m.):**

**CCAM Sequence ID:** CCAM04967

**Whole Target Classification:** Bedrock
**Lamination Strength:** Absent
**Lamination Expression:** Absent
**Grain Visibility:** Below RMI Image Resolution
**Bedrock Appearance:** Dull
**Nodule Presence:** Absent
**Nodule Diameter:** Absent
**Nodule Resistance:** Absent
**Fracture Presence:** Pervasive (>20% by Visual Inspection)



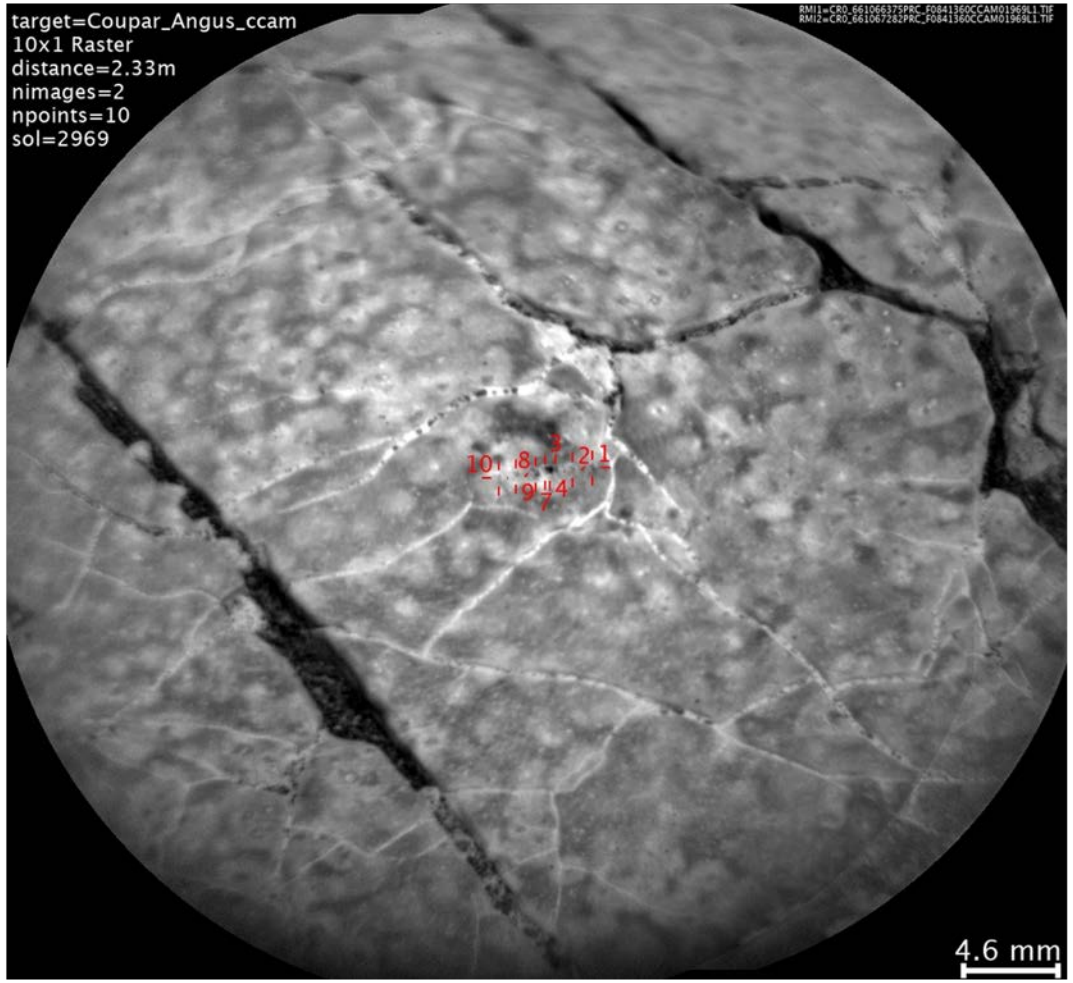

| # | Feature | SiO2 (wt%) | TiO2 (wt%) | Al2O3 (wt%) | FeOT (wt%) | MgO (wt%) | CaO (wt%) | Na2O (wt%) | K2O (wt%) | Sum of Oxides (wt%) |
|---|---|---|---|---|---|---|---|---|---|---|
| 1 | Sand | 53.2 | 0.79 | 12.6 | 20.3 | 5.9 | 2.5 | 3.13 | 1.69 | 100.11 |
| 2 | Bedrock | 55.3 | 1.03 | 11.9 | 20.5 | 5.3 | 1.5 | 2.73 | 1.85 | 100.11 |
| 3 | Bedrock | 54.2 | 0.92 | 11 | 20.6 | 5.4 | 1.2 | 2.66 | 1.78 | 97.76 |
| 4 | Bedrock | 53.7 | 0.9 | 11.5 | 19.5 | 5.7 | 1.6 | 2.56 | 1.7 | 97.16 |
| 5 | Bedrock | 54.5 | 0.95 | 11.1 | 20.8 | 5.1 | 1.3 | 2.67 | 1.74 | 98.16 |
| 6 | Bedrock | 58.2 | 0.98 | 12.6 | 17.4 | 5.8 | 1.6 | 2.79 | 1.9 | 101.27 |
| 7 | Vein or Fracture | 56.8 | 0.93 | 12.4 | 18.3 | 5.8 | 1.4 | 2.71 | 1.96 | 100.3 |
| 8 | Bedrock | 56.4 | 0.93 | 13.3 | 18.9 | 5.4 | 1.5 | 2.87 | 1.92 | 101.22 |
| 9 | Bedrock | 53.3 | 0.9 | 12.3 | 20.5 | 5.1 | 1.3 | 2.86 | 1.81 | 98.07 |

# Target: Coupar_Angus_ccam

**Sol:** 2969
**Elev (m.):** -4086.32096419942
**CCAM Sequence ID:** CCAM01969

**Whole Target Classification:** Bedrock
**Lamination Strength:** Absent
**Lamination Expression:** Absent
**Grain Visibility:** Below RMI Image Resolution
**Bedrock Appearance:** Dull
**Nodule Presence:** Pervasive (>50% by Visual Inspection)
**Nodule Diameter:** Medium (1 - 3 mm)
**Nodule Resistance:** Recessed
**Fracture Presence:** Occasional (<10% by Visual Inspection)

| # | Feature | SiO2 (wt%) | TiO2 (wt%) | Al2O3 (wt%) | FeOT (wt%) | MgO (wt%) | CaO (wt%) | Na2O (wt%) | K2O (wt%) | Sum of Oxides (wt%) |
|---|---|---|---|---|---|---|---|---|---|---|
| 1 | Bedrock | 54.4 | 0.92 | 9.5 | 18.5 | 5.6 | 1.4 | 2.47 | 1.61 | 94.4 |
| 2 | Bedrock | 57.4 | 0.92 | 11 | 16.5 | 5.5 | 1.5 | 2.47 | 1.71 | 97 |
| 3 | Bedrock | 56.1 | 0.92 | 11 | 17 | 5.9 | 1.5 | 2.43 | 1.52 | 96.37 |
| 4 | Bedrock | 56.4 | 0.92 | 10.5 | 16.8 | 5.8 | 1.5 | 2.4 | 1.46 | 95.78 |
| 5 | Bedrock | 53.3 | 0.9 | 11.3 | 18.6 | 5.7 | 1.9 | 2.65 | 1.24 | 95.59 |
| 6 | Bedrock | 52.4 | 0.84 | 11.8 | 19.8 | 5.3 | 1.9 | 2.85 | 1.17 | 96.06 |
| 7 | Bedrock | 57.9 | 0.99 | 11.8 | 16 | 5.7 | 1.5 | 2.46 | 1.5 | 97.85 |
| 8 | Bedrock | 49 | 0.92 | 7.8 | 20.7 | 6.4 | 1.1 | 3.29 | 0.79 | 90 |
| 9 | Bedrock | 57.4 | 0.91 | 11.5 | 15.1 | 6.4 | 1.5 | 2.43 | 1.47 | 96.71 |
| 10 | Bedrock | 56 | 0.99 | 10.8 | 15 | 6.4 | 1.6 | 2.59 | 1.34 | 94.72 |

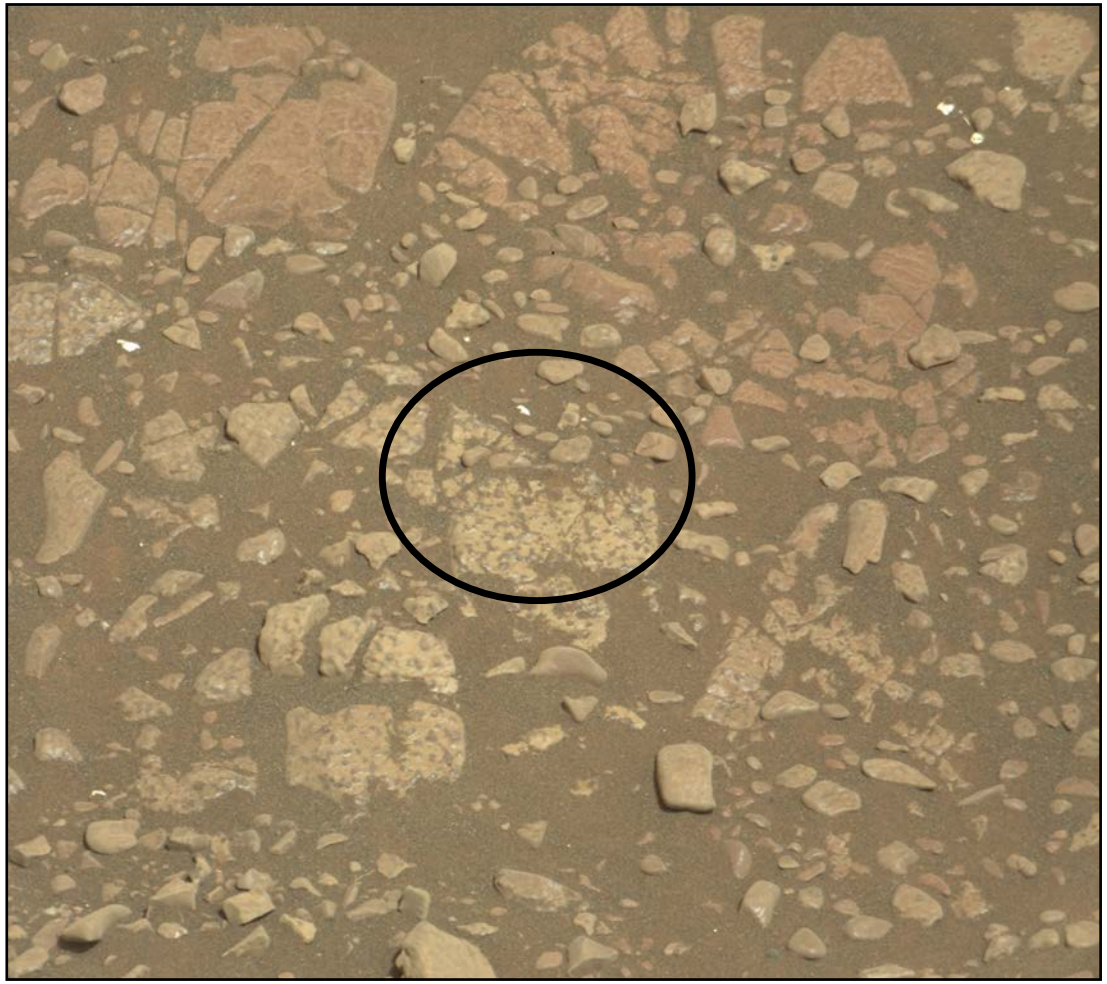


# Target: Ayre_of_Tonga

**Sol:** 2969
**Elev (m.):** -4086.34746419539
**CCAM Sequence ID:** CCAM02969

**Whole Target Classification:** Bedrock
**Lamination Strength:** Absent
**Lamination Expression:** Absent
**Grain Visibility:** Below RMI Image Resolution
**Bedrock Appearance:** Shiny
**Nodule Presence:** Pervasive (>50% by Visual Inspection)
**Nodule Diameter:** Large (>3 mm)
**Nodule Resistance:** Protruding
**Fracture Presence:** Occasional (<10% by Visual Inspection)

| # | Feature | SiO2 (wt%) | TiO2 (wt%) | Al2O3 (wt%) | FeOT (wt%) | MgO (wt%) | CaO (wt%) | Na2O (wt%) | K2O (wt%) | Sum of Oxides (wt%) |
|---|---|---|---|---|---|---|---|---|---|---|
| 1 | Sand | 50.8 | 0.94 | 7.9 | 20.9 | 5.3 | 1.8 | 2.11 | 0.7 | 90.45 |
| 2 | Sand | 42.9 | 0.93 | 8.1 | 25.5 | 3.8 | 1 | 1.87 | 0.55 | 84.65 |
| 3 | Sand | 46.9 | 0.97 | 9.8 | 18.7 | 7.4 | 5.3 | 1.92 | 0.52 | 91.51 |
| 4 | Bedrock | 57.1 | 0.97 | 13 | 15.9 | 5.7 | 1.6 | 2.71 | 1.54 | 98.52 |
| 5 | Bedrock | 50.5 | 0.92 | 11.3 | 18.5 | 4.8 | 1.4 | 2.83 | 1.28 | 91.53 |



# Target: Ocraquoy

**Sol:** 2969
**Elev (m.):** -4086.27291451869
**CCAM Sequence ID:** CCAM03969

**Whole Target Classification:** Bedrock
**Lamination Strength:** Absent
**Lamination Expression:** Absent
**Grain Visibility:** Below RMI Image Resolution
**Bedrock Appearance:** Dull
**Nodule Presence:** Common (~30% by Visual Inspection
**Nodule Diameter:** Small (<1 mm)
**Nodule Resistance:** Recessed
**Fracture Presence:** Occasional (<10% by Visual Inspection)

| # | Feature | SiO2 (wt%) | TiO2 (wt%) | Al2O3 (wt%) | FeOT (wt%) | MgO (wt%) | CaO (wt%) | Na2O (wt%) | K2O (wt%) | Sum of Oxides (wt%) |
|---|---|---|---|---|---|---|---|---|---|---|
| 1 | Sand | 53.3 | 1.08 | 8.9 | 18.4 | 6.7 | 1.5 | 2.18 | 1.06 | 93.12 |
| 2 | Bedrock | 52.9 | 0.98 | 9.2 | 18.7 | 6 | 1.4 | 2.63 | 1.41 | 93.22 |
| 3 | Bedrock | 56 | 0.93 | 10.7 | 17.9 | 5.6 | 1.5 | 2.61 | 1.64 | 96.88 |
| 4 | Bedrock | 56 | 1.01 | 11.5 | 17.9 | 5.5 | 1.5 | 2.5 | 1.61 | 97.52 |
| 5 | Bedrock | 55.7 | 0.94 | 10.3 | 18.2 | 5.2 | 1.5 | 2.67 | 1.7 | 96.21 |
| 6 | Bedrock | 54.3 | 0.95 | 10.4 | 19.7 | 5.2 | 1.4 | 2.71 | 1.58 | 96.24 |
| 7 | Bedrock | 54.7 | 0.92 | 12 | 19.4 | 5.1 | 1.5 | 2.71 | 1.73 | 98.06 |
| 8 | Nodule | 55.1 | 0.94 | 10.9 | 20.7 | 4.9 | 1.4 | 2.71 | 1.71 | 98.36 |
| 9 | Bedrock | 57.5 | 1.1 | 11 | 18.2 | 5.2 | 1.5 | 2.68 | 1.85 | 99.03 |
| 10 | Bedrock | 55.2 | 1.02 | 10.5 | 18.9 | 5.1 | 1.5 | 2.65 | 1.57 | 96.44 |

# Target: aegis_post_2971a

**Sol:** 2969
**Elev (m.):** -4084.12283545133
**CCAM Sequence ID:** CCAM04969

**Whole Target Classification:** Unconsolidated (Sand/Soil/Pebbles)
**Lamination Strength:** Absent
**Lamination Expression:** Absent
**Grain Visibility:** Below RMI Image Resolution
**Bedrock Appearance:** Dull
**Nodule Presence:** Absent
**Nodule Diameter:** Absent
**Nodule Resistance:** Absent
**Fracture Presence:** Absent

| # | Feature | SiO2 (wt%) | TiO2 (wt%) | Al2O3 (wt%) | FeOT (wt%) | MgO (wt%) | CaO (wt%) | Na2O (wt%) | K2O (wt%) | Sum of Oxides (wt%) |
|---|---|---|---|---|---|---|---|---|---|---|
| 1 | Sand | 55 | 1.23 | 13.1 | 18.5 | 6.7 | 2.3 | 2.47 | 1.24 | 100.54 |
| 2 | Bedrock | 53.5 | 1.14 | 10.3 | 19.3 | 7.1 | 1.2 | 2.6 | 1.68 | 96.82 |
| 3 | Bedrock | 54.6 | 0.95 | 11.6 | 19.3 | 6.9 | 1.4 | 2.84 | 2.09 | 99.68 |
| 4 | Sand | 41.1 | 0.86 | 9 | 19.6 | 7.4 | 7.1 | 2.05 | 0.42 | 87.53 |
| 5 | Bedrock | 56 | 1.47 | 11.7 | 18.9 | 6 | 1.4 | 2.98 | 2.24 | 100.69 |
| 6 | Bedrock | 55.9 | 0.99 | 12.2 | 19 | 6.3 | 1.4 | 3.04 | 2.06 | 100.89 |
| 7 | Sand | 51.4 | 1.03 | 9.5 | 20.5 | 5.9 | 1.4 | 2.2 | 1.04 | 92.97 |
| 8 | Bedrock | 58.3 | 0.97 | 7.8 | 16.3 | 5.3 | 1.8 | 2.86 | 1.74 | 95.07 |
| 9 | Bedrock | 56.5 | 1.13 | 12.1 | 18.8 | 6.5 | 1.5 | 2.83 | 1.96 | 101.32 |

# Target: Windlestraw_Law

**Sol:** 2972
**Elev (m.):** -4083.87563445277
**CCAM Sequence ID:** CCAM01972

**Whole Target Classification:** Bedrock
**Lamination Strength:** Absent
**Lamination Expression:** Absent
**Grain Visibility:** Below RMI Image Resolution
**Bedrock Appearance:** Dull
**Nodule Presence:** Pervasive (>50% by Visual Inspection)
**Nodule Diameter:** Small (<1 mm)
**Nodule Resistance:** Recessed
**Fracture Presence:** Pervasive (>20% by Visual Inspection)

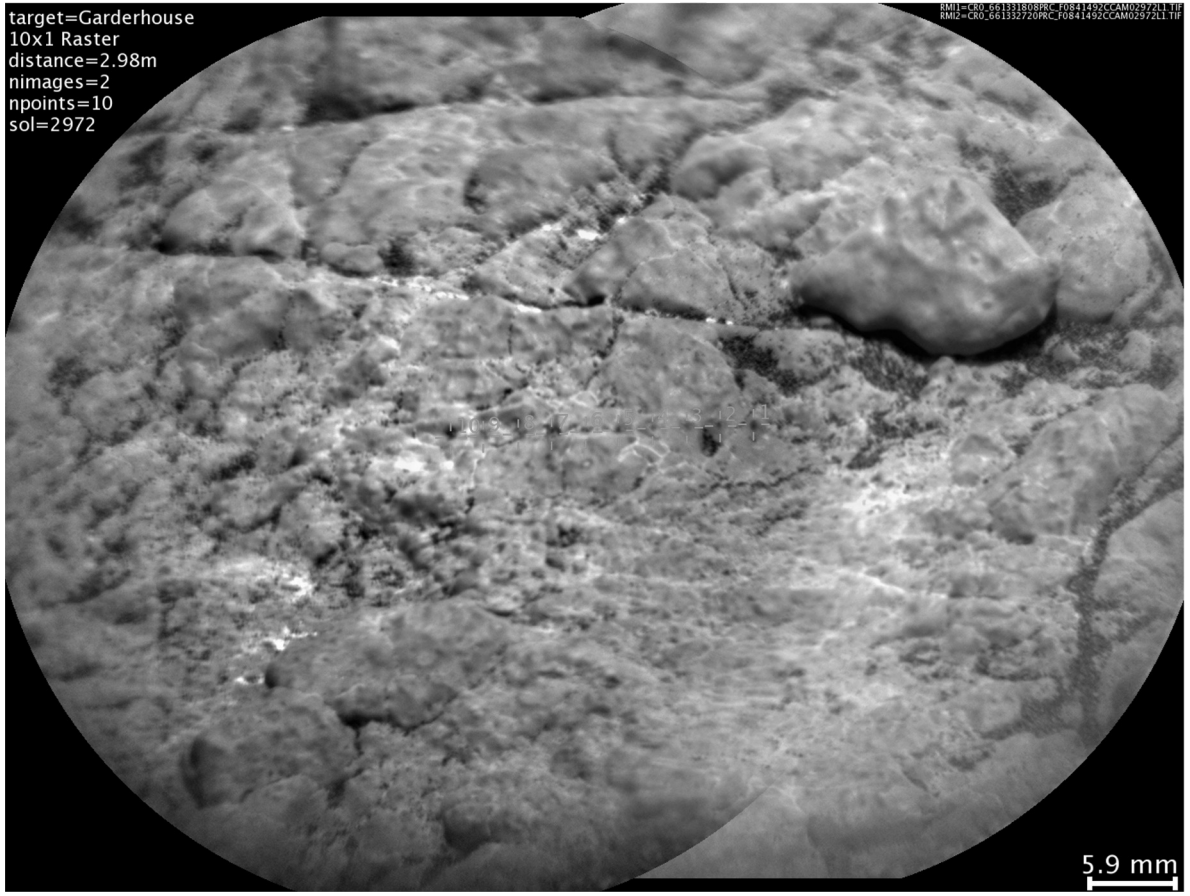
| # | Feature | SiO2 (wt%) | TiO2 (wt%) | Al2O3 (wt%) | FeOT (wt%) | MgO (wt%) | CaO (wt%) | Na2O (wt%) | K2O (wt%) | Sum of Oxides (wt%) |
|---|---|---|---|---|---|---|---|---|---|---|
| 1 | Bedrock | 58.5 | 0.97 | 12.7 | 15.6 | 5 | 1.2 | 2.88 | 2.01 | 98.86 |
| 2 | Bedrock | 56.6 | 1.04 | 10.9 | 18.3 | 4.7 | 1.5 | 2.63 | 1.48 | 97.15 |
| 3 | Bedrock | 57.9 | 0.98 | 12.2 | 17 | 5.1 | 1.4 | 2.78 | 1.91 | 99.27 |
| 4 | Bedrock | 54.9 | 0.95 | 10.9 | 20.4 | 4.5 | 1.3 | 2.67 | 1.81 | 97.43 |
| 5 | Bedrock | 56.6 | 1.06 | 12.1 | 19 | 4.6 | 1.5 | 2.83 | 1.93 | 99.62 |
| 6 | Vein or Fracture | 57 | 1 | 11.6 | 16.2 | 4.6 | 3.2 | 2.53 | 1.64 | 97.77 |
| 7 | Bedrock | 57.5 | 0.95 | 11.4 | 17.3 | 5 | 1.4 | 2.77 | 1.94 | 98.26 |
| 8 | Vein or Fracture | 54.8 | 0.99 | 11 | 20.3 | 4.6 | 2.7 | 2.66 | 1.8 | 98.85 |
| 9 | Vein or Fracture | 58.3 | 0.98 | 11.9 | 16.2 | 5.1 | 3 | 2.57 | 1.81 | 99.86 |
| 10 | Bedrock | 53.8 | 1.08 | 11.7 | 21.1 | 4.7 | 1.5 | 2.66 | 1.58 | 98.12 |

# Target: Garderhouse

**Sol:** 2972
**Elev (m.):** -4084.0029396253
**CCAM Sequence ID:** CCAM02972

**Whole Target Classification:** Bedrock
**Lamination Strength:** Absent
**Lamination Expression:** Absent
**Grain Visibility:** Below RMI Image Resolution
**Bedrock Appearance:** Dull
**Nodule Presence:** Pervasive (>50% by Visual Inspection)
**Nodule Diameter:** Small (<1 mm)
**Nodule Resistance:** Recessed
**Fracture Presence:** Pervasive (>20% by Visual Inspection)

| # | Feature | SiO2 (wt%) | TiO2 (wt%) | Al2O3 (wt%) | FeOT (wt%) | MgO (wt%) | CaO (wt%) | Na2O (wt%) | K2O (wt%) | Sum of Oxides (wt%) |
|---|---|---|---|---|---|---|---|---|---|---|
| 1 | Bedrock | 50.1 | 0.9 | 9.7 | 19.1 | 4.2 | 1 | 2.85 | 1.59 | 89.44 |
| 2 | Bedrock | 55.7 | 1.03 | 12.3 | 20.1 | 5.7 | 1.3 | 2.85 | 1.93 | 100.91 |
| 3 | Bedrock | 56.4 | 0.96 | 11.9 | 18.4 | 6 | 1.3 | 2.78 | 2.06 | 99.8 |
| 4 | Bedrock | 55.9 | 0.97 | 13 | 19 | 6.1 | 1.4 | 2.71 | 1.82 | 100.9 |
| 5 | Vein or Fracture | 55.4 | 1.03 | 12.4 | 18.5 | 6.2 | 2.1 | 2.33 | 1.49 | 99.45 |
| 6 | Vein or Fracture | 56.1 | 1.06 | 14.1 | 17.7 | 6 | 2.2 | 2.43 | 1.38 | 100.97 |
| 7 | Bedrock | 53.7 | 0.97 | 11.2 | 20.2 | 6.3 | 1.4 | 2.44 | 1.5 | 97.71 |
| 8 | Bedrock | 57.8 | 0.99 | 12.7 | 18.4 | 5.6 | 1.5 | 3.05 | 2.12 | 102.16 |
| 9 | Bedrock | 54.9 | 0.96 | 11.1 | 20 | 6 | 1.7 | 2.58 | 1.57 | 98.81 |
| 10 | Bedrock | 51.9 | 0.97 | 10.9 | 19.8 | 5.9 | 1.4 | 2.42 | 1.42 | 94.71 |



# Target: Nesting_Fault

**Sol:** 2972
**Elev (m.):** -4083.79668567459
**CCAM Sequence ID:** CCAM03972

**Whole Target Classification:** Bedrock
**Lamination Strength:** Absent
**Lamination Expression:** Absent
**Grain Visibility:** Below RMI Image Resolution
**Bedrock Appearance:** Dull
**Nodule Presence:** Pervasive (>50% by Visual Inspection)
**Nodule Diameter:** Small (<1 mm)
**Nodule Resistance:** Recessed
**Fracture Presence:** Pervasive (>20% by Visual Inspection)

| # | Feature | SiO2 (wt%) | TiO2 (wt%) | Al2O3 (wt%) | FeOT (wt%) | MgO (wt%) | CaO (wt%) | Na2O (wt%) | K2O (wt%) | Sum of Oxides (wt%) |
|---|---|---|---|---|---|---|---|---|---|---|
| 1 | Bedrock | 50.7 | 0.97 | 9.7 | 17.6 | 3.9 | 1.1 | 2.38 | 1.53 | 87.88 |
| 2 | Bedrock | 54.1 | 1.09 | 12.2 | 20.1 | 6.1 | 1.7 | 2.57 | 1.47 | 99.33 |
| 3 | Vein or Fracture | 54.3 | 0.96 | 11.3 | 22.1 | 5.3 | 1.3 | 2.39 | 1.41 | 99.06 |
| 4 | Vein or Fracture | 55.8 | 1.01 | 11.9 | 18.9 | 5.2 | 2.9 | 2.58 | 1.82 | 100.11 |
| 5 | Bedrock | 56.8 | 1.03 | 12.3 | 18.6 | 4.8 | 1.6 | 2.74 | 1.87 | 99.74 |
| 6 | Bedrock | 53.2 | 0.93 | 11.8 | 19.2 | 6.9 | 1.3 | 2.67 | 1.6 | 97.6 |
| 7 | Bedrock | 51 | 0.92 | 10.9 | 19.5 | 4.3 | 1.4 | 2.91 | 1.78 | 92.71 |
| 8 | Vein or Fracture | 54.1 | 0.97 | 11.9 | 22.2 | 4.5 | 1.3 | 3 | 1.93 | 99.9 |
| 9 | Bedrock | 51.2 | 0.94 | 9.8 | 22.4 | 5.9 | 1.5 | 2.27 | 0.96 | 94.97 |
| 10 | Bedrock | 51.3 | 0.95 | 11.7 | 18.5 | 4.2 | 1.5 | 2.81 | 1.6 | 92.56 |

# Target: aegis_post_2973a

**Sol:** 2972
**Elev (m.):** -4083.25451724987
**CCAM Sequence ID:** CCAM04972

**Whole Target Classification:** Bedrock
**Lamination Strength:** Absent
**Lamination Expression:** Absent
**Grain Visibility:** Below RMI Image Resolution
**Bedrock Appearance:** Dull
**Nodule Presence:** Common (~30% by Visual Inspection
**Nodule Diameter:** Small (<1 mm)
**Nodule Resistance:** Recessed
**Fracture Presence:** Pervasive (>20% by Visual Inspection)

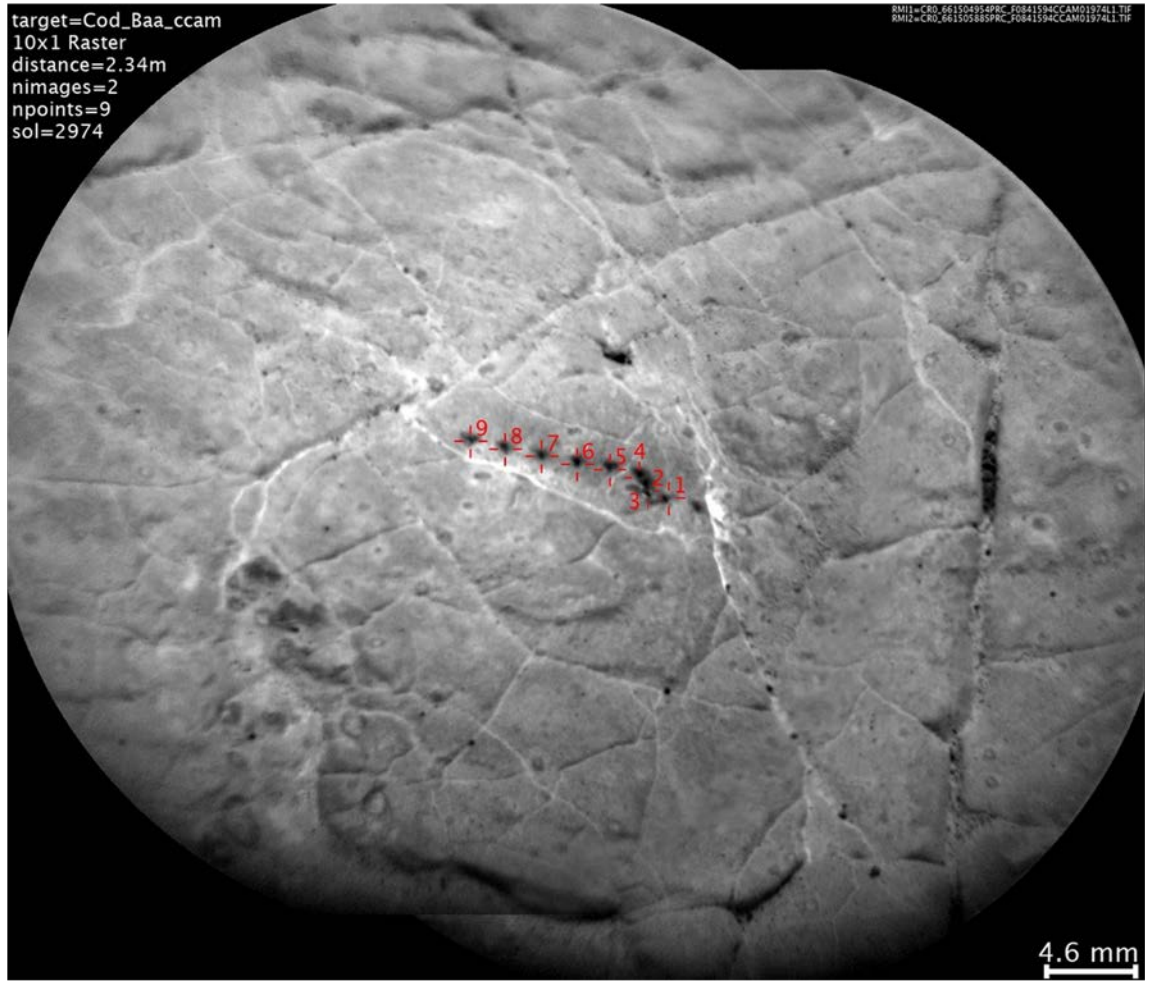
| # | Feature | SiO2 (wt%) | TiO2 (wt%) | Al2O3 (wt%) | FeOT (wt%) | MgO (wt%) | CaO (wt%) | Na2O (wt%) | K2O (wt%) | Sum of Oxides (wt%) |
|---|---|---|---|---|---|---|---|---|---|---|
| 1 | Bedrock | 53.5 | 0.99 | 11 | 18.8 | 7.6 | 1.2 | 2.55 | 1.38 | 97.02 |
| 2 | Bedrock | 51.2 | 0.98 | 10.4 | 18.9 | 8.9 | 1.2 | 2.47 | 1.24 | 95.29 |
| 3 | Bedrock | 52.7 | 0.94 | 11.1 | 18.9 | 7.7 | 1.3 | 2.6 | 1.35 | 96.59 |
| 4 | Bedrock | 50.6 | 0.97 | 10.8 | 20.1 | 6.3 | 1.2 | 2.16 | 1.08 | 93.21 |
| 5 | Bedrock | 55.9 | 0.98 | 10.8 | 18.4 | 6.8 | 2.1 | 2.4 | 1.42 | 98.8 |
| 6 | Bedrock | 55.8 | 0.94 | 13 | 18 | 7.2 | 1.6 | 2.31 | 1.02 | 99.87 |
| 7 | Bedrock | 53.2 | 0.92 | 10.4 | 19.7 | 6.7 | 1.2 | 2.41 | 1.37 | 95.9 |
| 8 | Vein or Fracture | 53.1 | 0.93 | 10.4 | 20.4 | 6 | 1.2 | 2.44 | 1.37 | 95.84 |
| 9 | Bedrock | 55.1 | 1.01 | 9.8 | 18.6 | 7.1 | 1.6 | 2.41 | 1.31 | 96.93 |

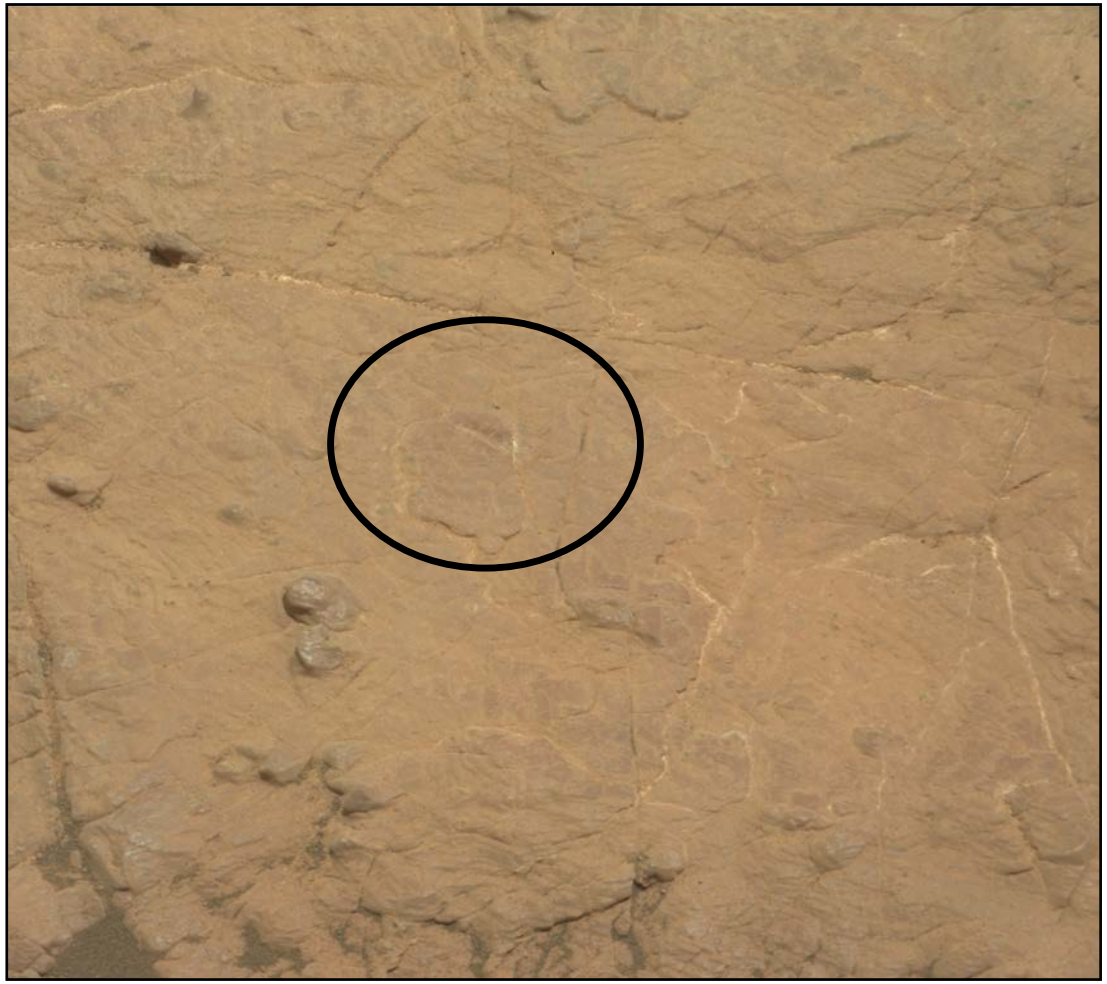
# Target: Cod_Baa_ccam

**Sol:** 2974
**Elev (m.):** -4083.22765402251
**CCAM Sequence ID:** CCAM01974

**Whole Target Classification:** Bedrock
**Lamination Strength:** Absent
**Lamination Expression:** Absent
**Grain Visibility:** Below RMI Image Resolution
**Bedrock Appearance:** Dull
**Nodule Presence:** Common (~30% by Visual Inspection
**Nodule Diameter:** Small (<1 mm)
**Nodule Resistance:** Recessed
**Fracture Presence:** Pervasive (>20% by Visual Inspection)

| # | Feature | SiO2 (wt%) | TiO2 (wt%) | Al2O3 (wt%) | FeOT (wt%) | MgO (wt%) | CaO (wt%) | Na2O (wt%) | K2O (wt%) | Sum of Oxides (wt%) |
|---|---|---|---|---|---|---|---|---|---|---|
| 1 | Bedrock | 53.5 | 1.06 | 11.5 | 18.6 | 6.7 | 1.6 | 2.46 | 1.19 | 96.61 |
| 2 | Vein or Fracture | 50.6 | 0.96 | 11.6 | 17.2 | 6.4 | 4.7 | 2.47 | 1.05 | 94.98 |
| 3 | Bedrock | 47.7 | 0.87 | 8.8 | 20.2 | 6.6 | 1.1 | 2.25 | 0.9 | 88.42 |
| 4 | Bedrock | 52.4 | 0.95 | 10.5 | 19.7 | 6.7 | 1.4 | 2.39 | 1.2 | 95.24 |
| 5 | Bedrock | 50.9 | 0.94 | 10.1 | 20.8 | 6.5 | 1.4 | 2.3 | 0.99 | 93.93 |
| 6 | Bedrock | 49.3 | 1.04 | 11 | 20.3 | 6.6 | 1.2 | 2.3 | 0.98 | 92.72 |
| 7 | Bedrock | 50.4 | 0.88 | 11.6 | 20 | 6.7 | 1.6 | 2.49 | 1.03 | 94.7 |
| 8 | Bedrock | 51.8 | 0.95 | 10.7 | 20.2 | 6.6 | 1.3 | 2.36 | 1.04 | 94.95 |
| 9 | Bedrock | 50 | 1.06 | 10.7 | 19.7 | 6.7 | 2 | 2.34 | 0.85 | 93.35 |
| 10 | Vein or Fracture | 42 | 0.84 | 8.6 | 18.5 | 5.3 | 10.2 | 1.58 | 0.68 | 87.7 |



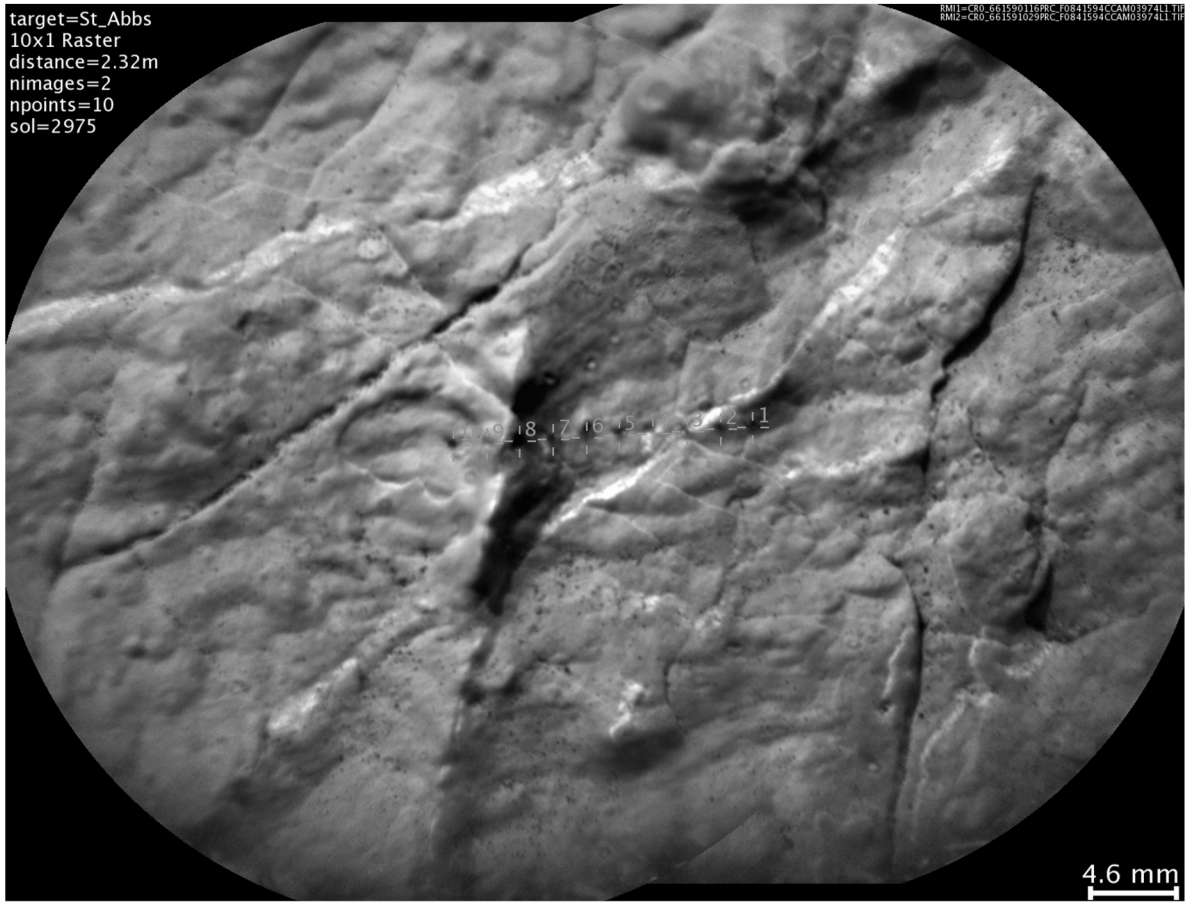



# Target: St_Abbs

**Sol:** 2974
**Elev (m.):** -4083.13267215849
**CCAM Sequence ID:** CCAM03974

**Whole Target Classification:** Bedrock
**Lamination Strength:** Absent
**Lamination Expression:** Absent
**Grain Visibility:** Below RMI Image Resolution
**Bedrock Appearance:** Dull
**Nodule Presence:** Occasional (~10% by Visual Inspection)
**Nodule Diameter:** Small (<1 mm)
**Nodule Resistance:** Recessed
**Fracture Presence:** Pervasive (>20% by Visual Inspection)

| # | Feature | SiO2 (wt%) | TiO2 (wt%) | Al2O3 (wt%) | FeOT (wt%) | MgO (wt%) | CaO (wt%) | Na2O (wt%) | K2O (wt%) | Sum of Oxides (wt%) |
|---|---|---|---|---|---|---|---|---|---|---|
| 1 | Bedrock | 52.4 | 1.15 | 10.6 | 19.2 | 6.7 | 1.6 | 2.45 | 1.39 | 95.49 |
| 2 | Bedrock | 50.3 | 0.96 | 10.7 | 20.2 | 6.3 | 2.4 | 2.33 | 1.29 | 94.48 |
| 3 | Vein or Fracture | 34 | 0.64 | 7.3 | 12 | 2.9 | 21.1 | 0.97 | 0.4 | 79.31 |
| 4 | Vein or Fracture | 26.4 | 0.61 | 4.8 | 10.4 | 2.2 | 23.6 | 0.67 | 0.29 | 68.97 |
| 5 | Bedrock | 48.5 | 0.91 | 9.1 | 18.6 | 5.3 | 6.1 | 1.96 | 1.23 | 91.7 |
| 6 | Bedrock | 47.9 | 0.9 | 9.2 | 18.1 | 5.8 | 6.9 | 1.92 | 1.1 | 91.82 |
| 7 | Bedrock | 50.5 | 0.95 | 10.3 | 19.8 | 7 | 1.3 | 2.3 | 1.17 | 93.32 |
| 8 | Vein or Fracture | 47.7 | 0.88 | 8.7 | 20.4 | 6 | 3.4 | 2.03 | 1.08 | 90.19 |
| 9 | Bedrock | 49.9 | 0.86 | 8.9 | 17.5 | 6.2 | 6.5 | 1.9 | 1.17 | 92.93 |
| 10 | Bedrock | 52 | 0.99 | 10.7 | 19.4 | 7.4 | 1.4 | 2.31 | 1.16 | 95.36 |

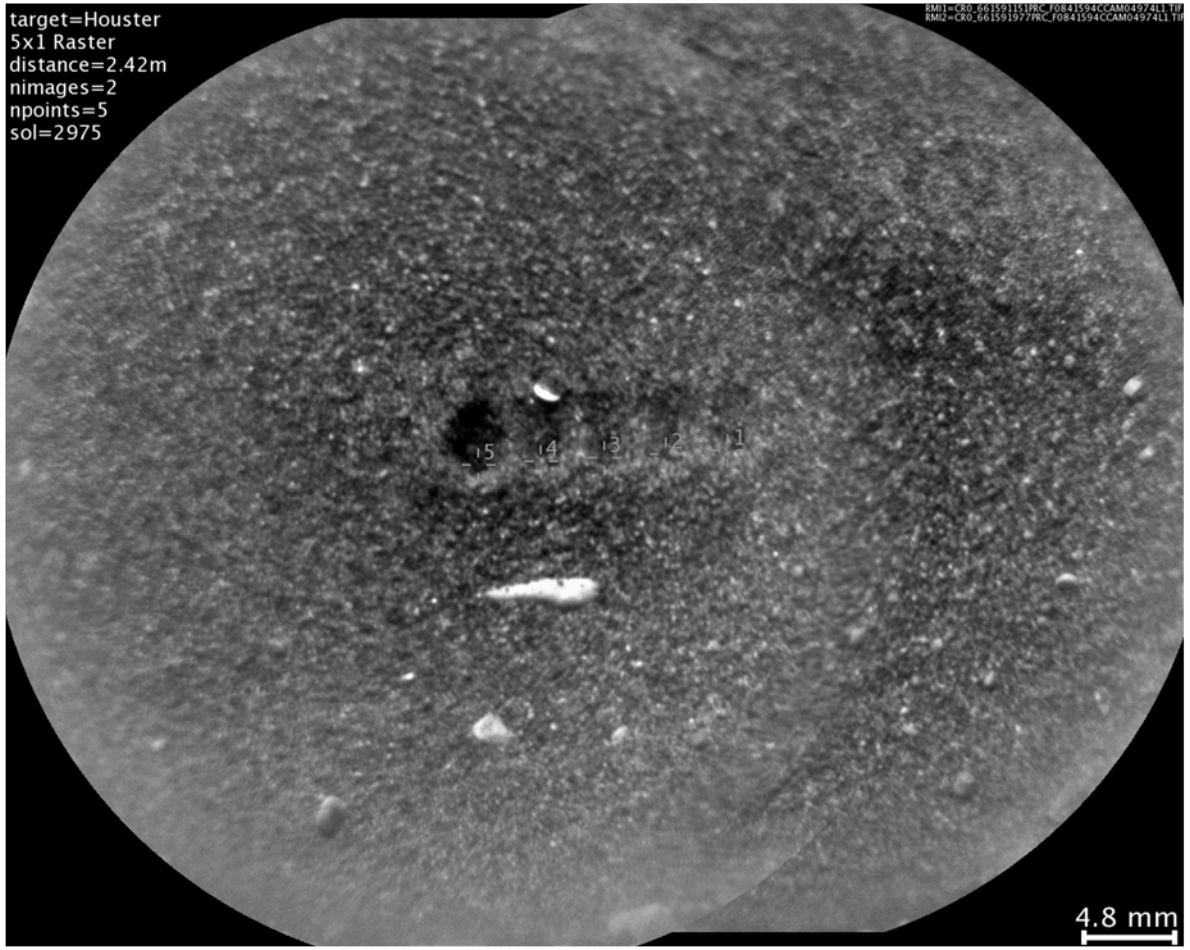


# Target: Houster

**Sol:** 2974
**Elev (m.):** -4083.17100318374
**CCAM Sequence ID:** CCAM04974

**Whole Target Classification:** Unconsolidated (Sand/Soil/Pebbles)
**Lamination Strength:** Absent
**Lamination Expression:** Absent
**Grain Visibility:** Above RMI Image Resolution
**Bedrock Appearance:** Dull
**Nodule Presence:** Absent
**Nodule Diameter:** Absent
**Nodule Resistance:** Absent
**Fracture Presence:** Absent

| # | Feature | SiO2 (wt%) | TiO2 (wt%) | Al2O3 (wt%) | FeOT (wt%) | MgO (wt%) | CaO (wt%) | Na2O (wt%) | K2O (wt%) | Sum of Oxides (wt%) |
|---|---|---|---|---|---|---|---|---|---|---|
| 1 | Sand | 43.2 | 0.94 | 9.5 | 19 | 7.3 | 7.8 | 2.1 | 0.46 | 90.3 |
| 2 | Sand | 42.6 | 0.93 | 9 | 19.5 | 7.6 | 7.5 | 1.95 | 0.37 | 89.45 |
| 3 | Sand | 43.3 | 0.95 | 8.8 | 19.5 | 7.9 | 7.4 | 1.97 | 0.38 | 90.2 |
| 4 | Sand | 43.1 | 0.94 | 8.9 | 19.9 | 7.6 | 7.4 | 1.95 | 0.38 | 90.17 |
| 5 | Sand | 42.6 | 0.95 | 9.1 | 19.9 | 7.7 | 7.5 | 1.94 | 0.35 | 90.04 |

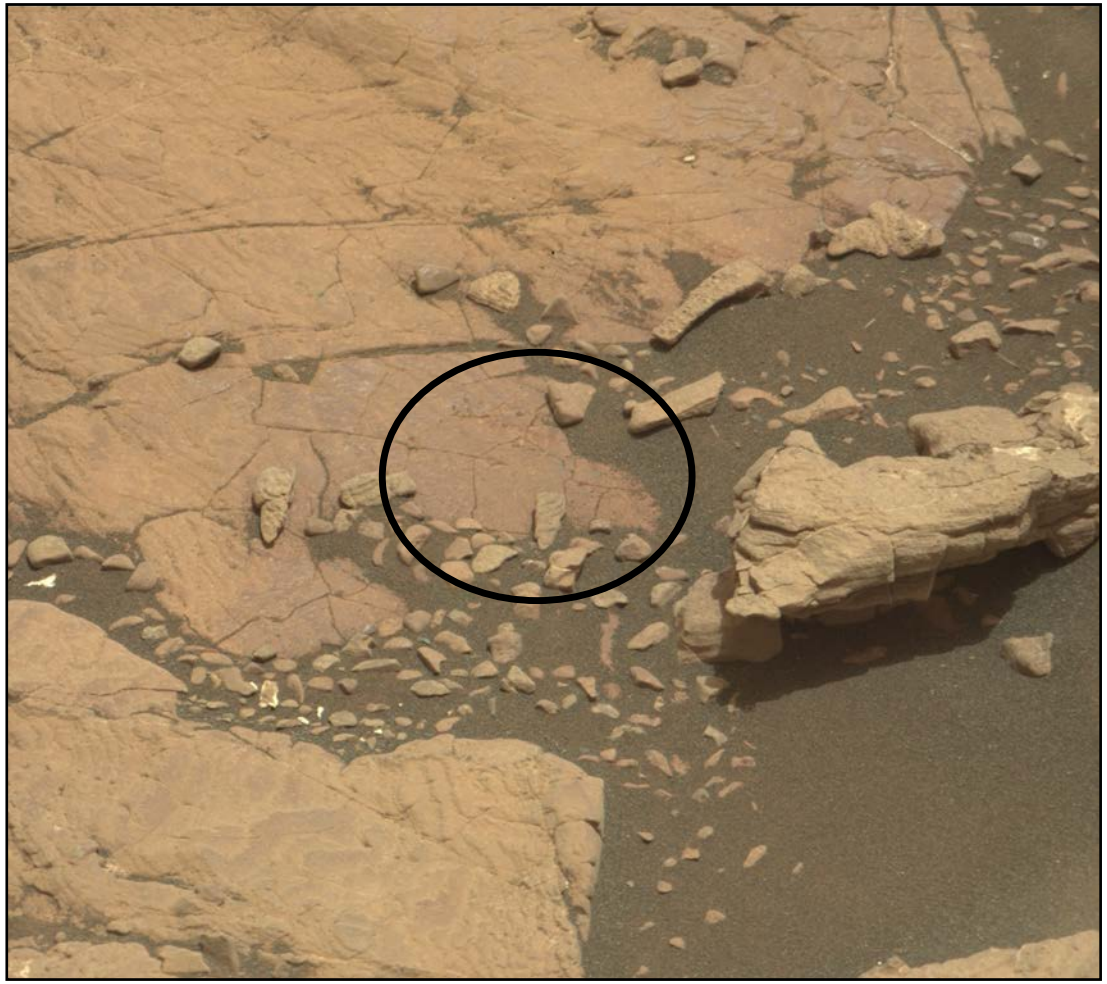


# Target: Northmavine

**Sol:** 2974
**Elev (m.):** -4083.26094868536
**CCAM Sequence ID:** CCAM05974

**Whole Target Classification:** Bedrock
**Lamination Strength:** Absent
**Lamination Expression:** Absent
**Grain Visibility:** Below RMI Image Resolution
**Bedrock Appearance:** Dull
**Nodule Presence:** Absent
**Nodule Diameter:** Absent
**Nodule Resistance:** Absent
**Fracture Presence:** Common (~10-20% by Visual Inspection)

| # | Feature | SiO2 (wt%) | TiO2 (wt%) | Al2O3 (wt%) | FeOT (wt%) | MgO (wt%) | CaO (wt%) | Na2O (wt%) | K2O (wt%) | Sum of Oxides (wt%) |
|---|---|---|---|---|---|---|---|---|---|---|
| 1 | Bedrock | 53.8 | 0.98 | 10.5 | 19 | 6.9 | 1.4 | 2.43 | 1.25 | 96.26 |
| 2 | Bedrock | 53 | 0.94 | 10.8 | 20.2 | 6.6 | 1.3 | 2.34 | 1.16 | 96.34 |
| 3 | Bedrock | 55.2 | 1.09 | 11.4 | 18.4 | 6.7 | 1.7 | 2.66 | 1.45 | 98.6 |
| 4 | Bedrock | 53.1 | 0.95 | 11.4 | 20.4 | 6 | 1.5 | 2.48 | 1.24 | 97.07 |
| 5 | Vein or Fracture | 52.5 | 1 | 10.5 | 21.6 | 5.6 | 1.3 | 2.49 | 1.34 | 96.33 |
| 6 | Bedrock | 50.8 | 0.97 | 10.4 | 18.6 | 4.9 | 1.3 | 2.25 | 1 | 90.22 |
| 7 | Bedrock | 54.3 | 0.97 | 11.3 | 19.9 | 5.8 | 1.3 | 2.6 | 1.5 | 97.67 |
| 8 | Vein or Fracture | 51.3 | 0.88 | 10.8 | 19.3 | 6.3 | 2.6 | 2.29 | 0.99 | 94.46 |
| 9 | Bedrock | 54 | 0.94 | 11.9 | 18.3 | 7.3 | 1.5 | 2.5 | 1.26 | 97.7 |
| 10 | Bedrock | 54.1 | 0.98 | 10.5 | 18.8 | 6.9 | 1.5 | 2.52 | 1.37 | 96.67 |

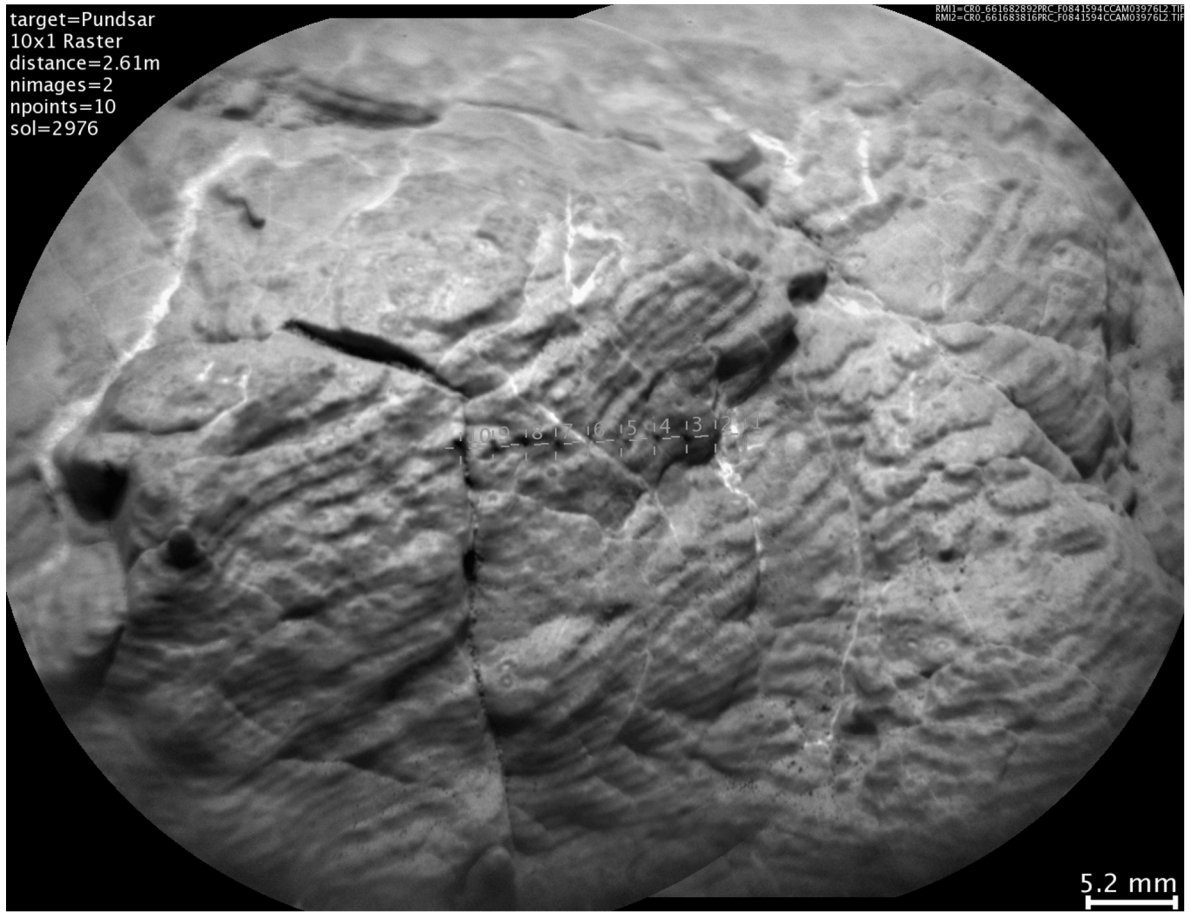


# Target: Pundsar

**Sol:** 2976
**Elev (m.):** -4083.09169746304
**CCAM Sequence ID:** CCAM03976

**Whole Target Classification:** Bedrock
**Lamination Strength:** Moderately Laminated
**Lamination Expression:** Primary Stratification
**Grain Visibility:** Below RMI Image Resolution
**Bedrock Appearance:** Dull
**Nodule Presence:** Absent
**Nodule Diameter:** Absent
**Nodule Resistance:** Absent
**Fracture Presence:** Pervasive (>20% by Visual Inspection)

| # | Feature | SiO2 (wt%) | TiO2 (wt%) | Al2O3 (wt%) | FeOT (wt%) | MgO (wt%) | CaO (wt%) | Na2O (wt%) | K2O (wt%) | Sum of Oxides (wt%) |
|---|---|---|---|---|---|---|---|---|---|---|
| 1 | Vein or Fracture | 47.8 | 0.88 | 10.1 | 18.8 | 4.9 | 6.7 | 2.19 | 1.24 | 92.61 |
| 2 | Bedrock | 49.9 | 0.89 | 9.4 | 20.6 | 6.3 | 1.3 | 2.56 | 1.32 | 92.27 |
| 3 | Bedrock | 46.4 | 0.97 | 9.3 | 20.9 | 4.9 | 1.1 | 2.28 | 1.08 | 86.93 |
| 4 | Bedrock | 51.8 | 0.94 | 10.5 | 20.4 | 6.5 | 1.2 | 2.46 | 1.29 | 95.09 |
| 5 | Bedrock | 55 | 1.14 | 10.7 | 17.3 | 7.3 | 1.7 | 2.67 | 1.42 | 97.23 |
| 6 | Vein or Fracture | 35.1 | 0.63 | 7 | 12.8 | 3 | 17.3 | 1.1 | 0.48 | 77.41 |
| 7 | Bedrock | 46.1 | 0.89 | 9.8 | 20.9 | 5.4 | 4.6 | 2.2 | 1.27 | 91.16 |
| 8 | Bedrock | 53.9 | 1.28 | 12 | 19.2 | 7.4 | 1.6 | 2.85 | 1.62 | 99.85 |
| 9 | Bedrock | 50 | 0.87 | 9.2 | 20.5 | 6.6 | 1 | 2.54 | 1.47 | 92.18 |
| 10 | Bedrock | 52.5 | 0.96 | 9.5 | 19.2 | 7.2 | 1.3 | 2.63 | 1.67 | 94.96 |

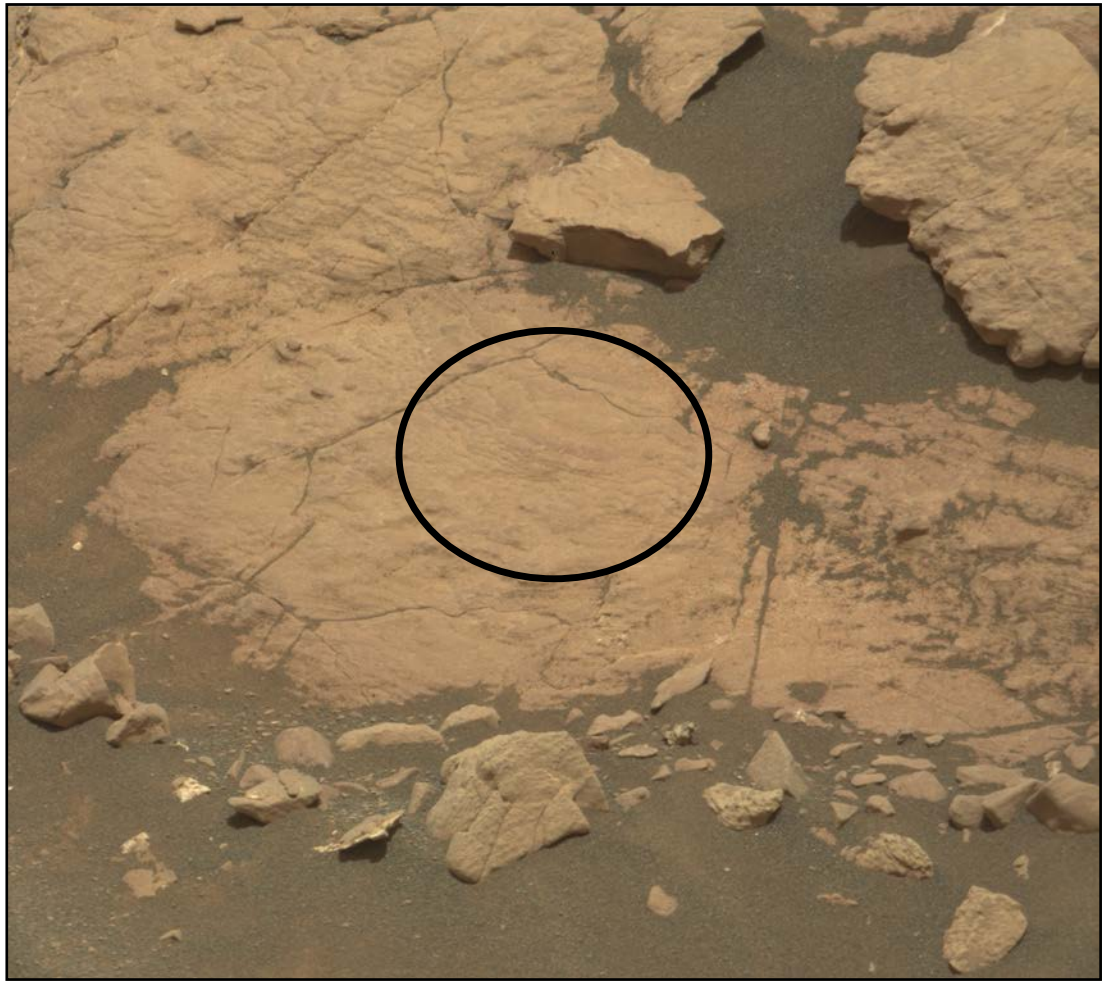


# Target: Corserine

**Sol:** 2976
**Elev (m.):** -4083.07686518705
**CCAM Sequence ID:** CCAM04976

**Whole Target Classification:** Bedrock
**Lamination Strength:** Weakly Laminated
**Lamination Expression:** Primary Stratification
**Grain Visibility:** Unclear
**Bedrock Appearance:** Dull
**Nodule Presence:** Absent
**Nodule Diameter:** Absent
**Nodule Resistance:** Absent
**Fracture Presence:** Occasional (<10% by Visual Inspection)

| # | Feature | SiO2 (wt%) | TiO2 (wt%) | Al2O3 (wt%) | FeOT (wt%) | MgO (wt%) | CaO (wt%) | Na2O (wt%) | K2O (wt%) | Sum of Oxides (wt%) |
|---|---|---|---|---|---|---|---|---|---|---|
| 1 | Bedrock | 52 | 0.94 | 10.3 | 21 | 6.2 | 1.3 | 2.66 | 1.19 | 95.59 |
| 2 | Bedrock | 53.8 | 0.96 | 11.4 | 19 | 7.4 | 1.5 | 2.41 | 1.2 | 97.67 |
| 3 | Bedrock | 56.2 | 0.93 | 11.8 | 17.8 | 7 | 1.7 | 2.55 | 1.51 | 99.49 |
| 4 | Bedrock | 50.9 | 0.88 | 9.5 | 20.5 | 6.3 | 1.2 | 2.59 | 1.22 | 93.09 |
| 5 | Bedrock | 51.8 | 0.89 | 10.2 | 20.5 | 6.5 | 1.3 | 2.64 | 1.21 | 95.04 |
| 6 | Bedrock | 51.7 | 1.01 | 11 | 21.6 | 6.4 | 1.2 | 2.59 | 1.44 | 96.94 |
| 7 | Bedrock | 56.7 | 1.13 | 12.9 | 16.8 | 6.7 | 2.1 | 2.79 | 1.35 | 100.47 |
| 8 | Bedrock | 55.2 | 1.09 | 11.6 | 17.9 | 8.3 | 1.8 | 2.42 | 1.12 | 99.43 |
| 9 | Bedrock | 55 | 0.97 | 11 | 18.8 | 7.5 | 1.5 | 2.44 | 1.24 | 98.45 |
| 10 | Bedrock | 53.2 | 0.95 | 11.2 | 19.8 | 7.3 | 1.4 | 2.59 | 1.31 | 97.75 |

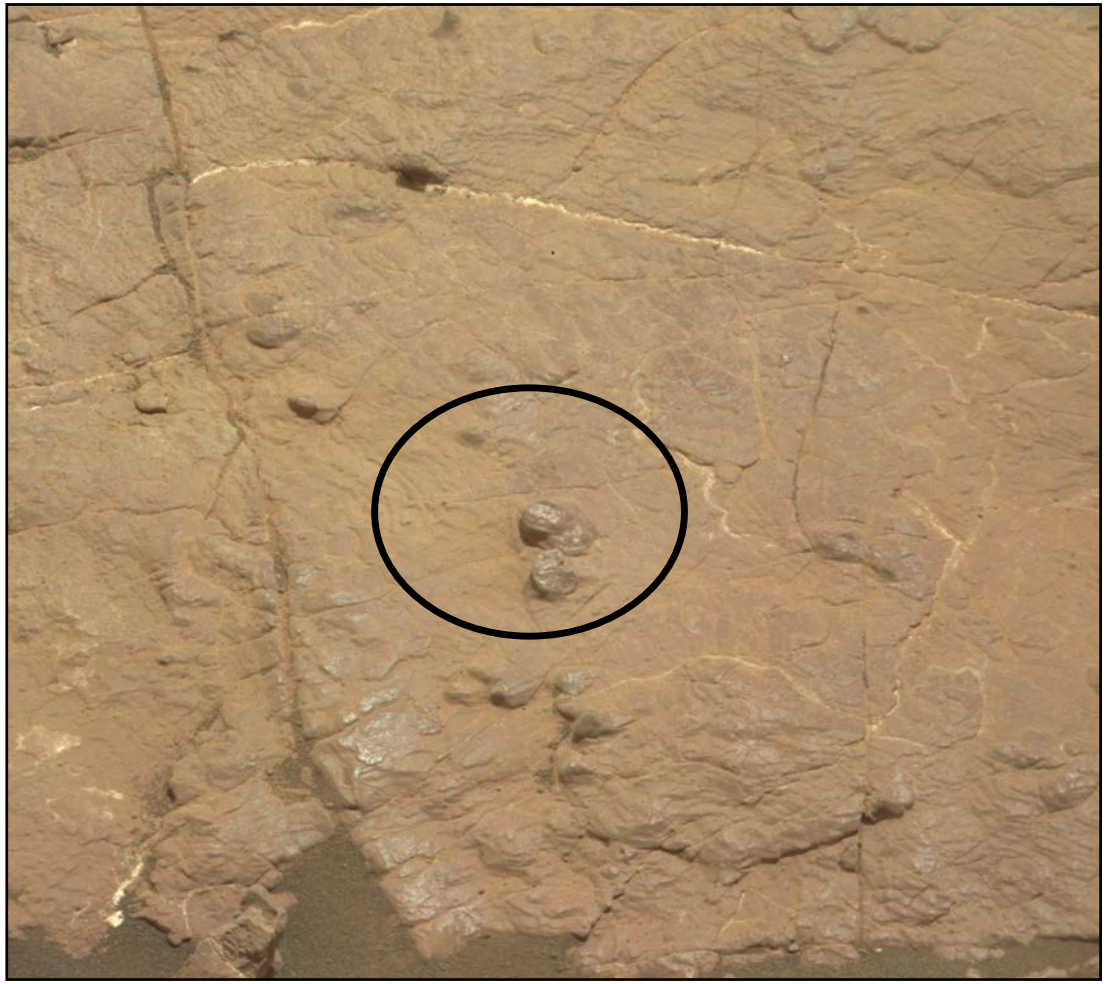


# Target: An_Dun_ccam

**Sol:** 2976
**Elev (m.):** -4083.21962526759
**CCAM Sequence ID:** CCAM05976

**Whole Target Classification:** Bedrock
**Lamination Strength:** Absent
**Lamination Expression:** Absent
**Grain Visibility:** Below RMI Image Resolution
**Bedrock Appearance:** Shiny
**Nodule Presence:** Common (~30% by Visual Inspection
**Nodule Diameter:** Large (>3 mm)
**Nodule Resistance:** Protruding
**Fracture Presence:** Pervasive (>20% by Visual Inspection)

| # | Feature | SiO2 (wt%) | TiO2 (wt%) | Al2O3 (wt%) | FeOT (wt%) | MgO (wt%) | CaO (wt%) | Na2O (wt%) | K2O (wt%) | Sum of Oxides (wt%) |
|---|---|---|---|---|---|---|---|---|---|---|
| 1 | Bedrock | 55.1 | 1.11 | 11.3 | 18.5 | 6.1 | 1.7 | 2.43 | 1.2 | 97.44 |
| 2 | Bedrock | 54.1 | 0.97 | 11.3 | 19.5 | 5.3 | 1.5 | 2.51 | 1.28 | 96.46 |
| 3 | Bedrock | 53.1 | 1.18 | 11.9 | 20.9 | 5.1 | 1.9 | 2.54 | 1.2 | 97.82 |
| 4 | Bedrock | 51.8 | 0.99 | 11.4 | 21.2 | 5.3 | 1.5 | 2.6 | 1 | 95.79 |
| 5 | Bedrock | 53 | 1.07 | 11.5 | 20.9 | 5.2 | 1.8 | 2.44 | 1.23 | 97.14 |
| 6 | Bedrock | 52.2 | 1.08 | 11.5 | 21 | 5.2 | 1.5 | 2.41 | 1.18 | 96.07 |
| 7 | Bedrock | 52.4 | 1 | 10.9 | 20.7 | 5.5 | 1.6 | 2.35 | 1.17 | 95.62 |
| 8 | Bedrock | 54.5 | 1.08 | 11.7 | 18.3 | 6 | 1.7 | 2.5 | 1.26 | 97.04 |
| 9 | Bedrock | 53.7 | 1.05 | 11.4 | 20.1 | 5.5 | 1.6 | 2.34 | 1.17 | 96.86 |

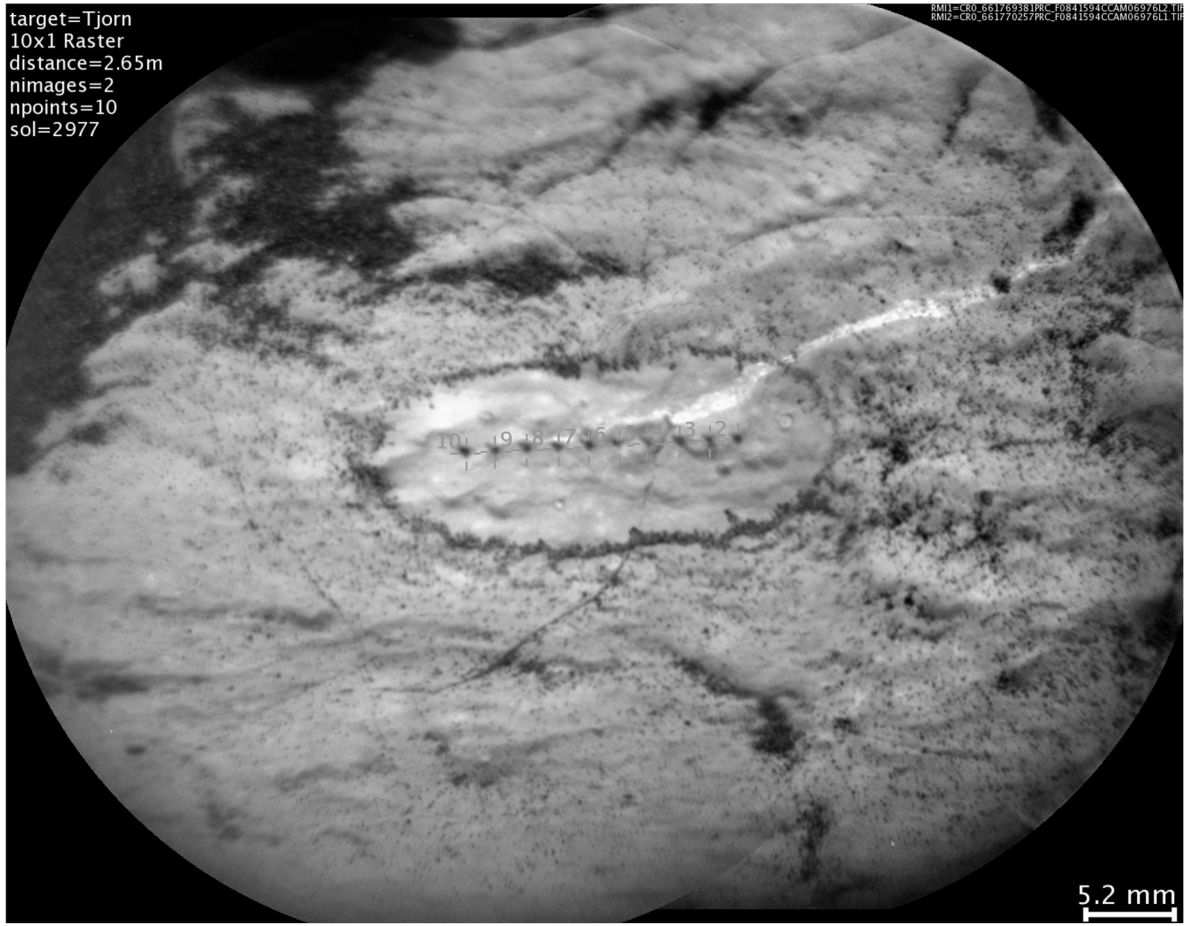


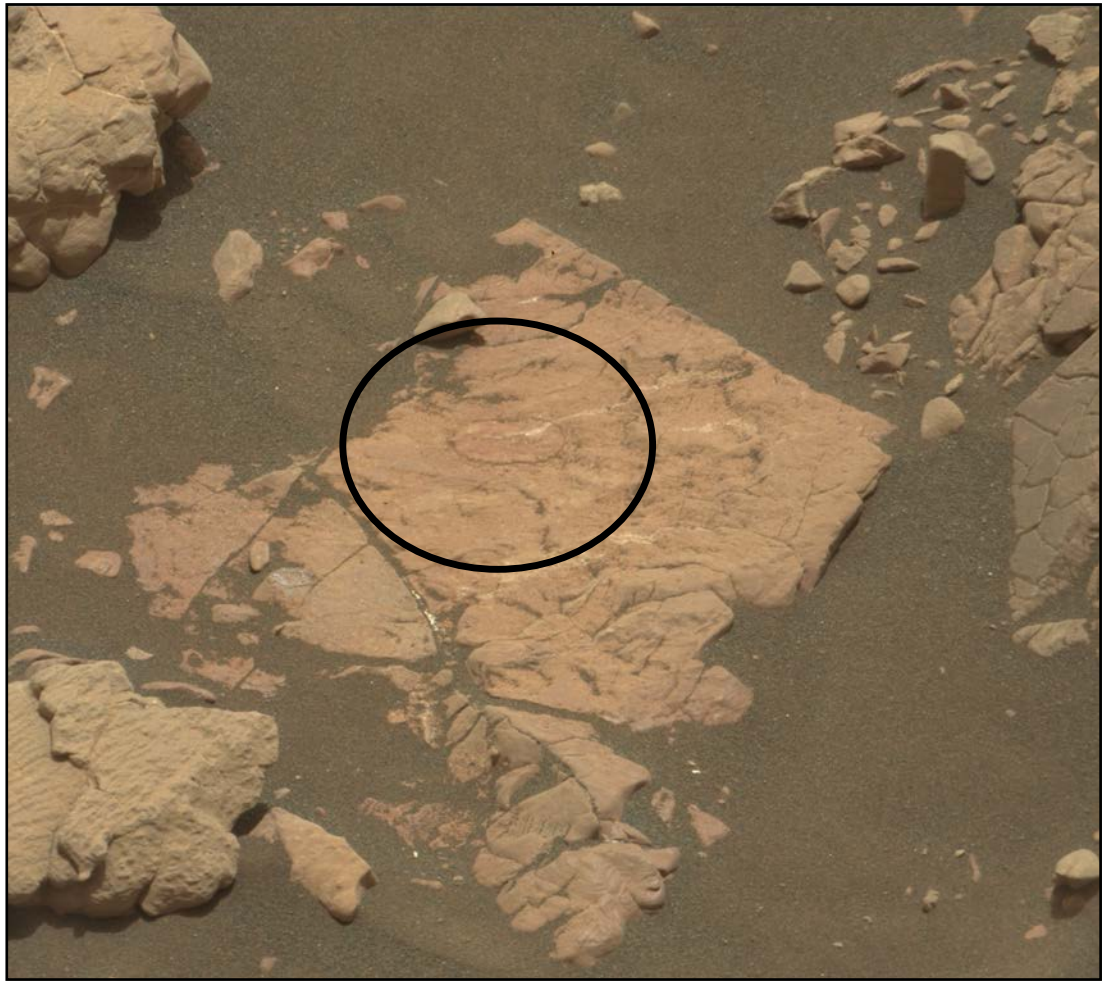
# Target: Tjorn

**Sol:** 2976
**Elev (m.):** -4083.18611073363
**CCAM Sequence ID:** CCAM06976

**Whole Target Classification:** Bedrock
**Lamination Strength:** Absent
**Lamination Expression:** Absent
**Grain Visibility:** Below RMI Image Resolution
**Bedrock Appearance:** Dull
**Nodule Presence:** Occasional (~10% by Visual Inspection)
**Nodule Diameter:** Small (<1 mm)
**Nodule Resistance:** Recessed
**Fracture Presence:** Common (~10-20% by Visual Inspection)

| # | Feature | SiO2 (wt%) | TiO2 (wt%) | Al2O3 (wt%) | FeOT (wt%) | MgO (wt%) | CaO (wt%) | Na2O (wt%) | K2O (wt%) | Sum of Oxides (wt%) |
|---|---|---|---|---|---|---|---|---|---|---|
| 1 | Bedrock | 54.5 | 1.08 | 11.4 | 19.7 | 4.5 | 3 | 2.57 | 1.71 | 98.46 |
| 2 | Bedrock | 53 | 1.01 | 11.9 | 19.3 | 4.8 | 3.5 | 2.49 | 1.41 | 97.41 |
| 3 | Vein or Fracture | 44.1 | 0.86 | 8.8 | 18.4 | 3.6 | 10.9 | 1.65 | 1.1 | 89.41 |
| 4 | Vein or Fracture | 51.8 | 0.94 | 10.3 | 17.9 | 3.9 | 7.3 | 2.11 | 1.49 | 95.74 |
| 5 | Vein or Fracture | 49.3 | 0.97 | 10.9 | 15.5 | 4.1 | 10.3 | 1.9 | 1.1 | 94.07 |
| 6 | Vein or Fracture | 51.6 | 0.97 | 11.1 | 20.5 | 4.7 | 4.3 | 2.33 | 1.46 | 96.96 |
| 7 | Vein or Fracture | 47.1 | 0.93 | 10.1 | 18.8 | 3.9 | 8.1 | 1.98 | 1.2 | 92.11 |
| 8 | Vein or Fracture | 46.3 | 0.89 | 9.5 | 18.5 | 3.7 | 9.6 | 1.8 | 1.11 | 91.4 |
| 9 | Vein or Fracture | 49.7 | 0.92 | 10.4 | 20.3 | 4.2 | 6 | 2.18 | 1.48 | 95.18 |
| 10 | Bedrock | 55.8 | 1.04 | 11.6 | 20 | 4.6 | 1.4 | 2.62 | 1.71 | 98.77 |



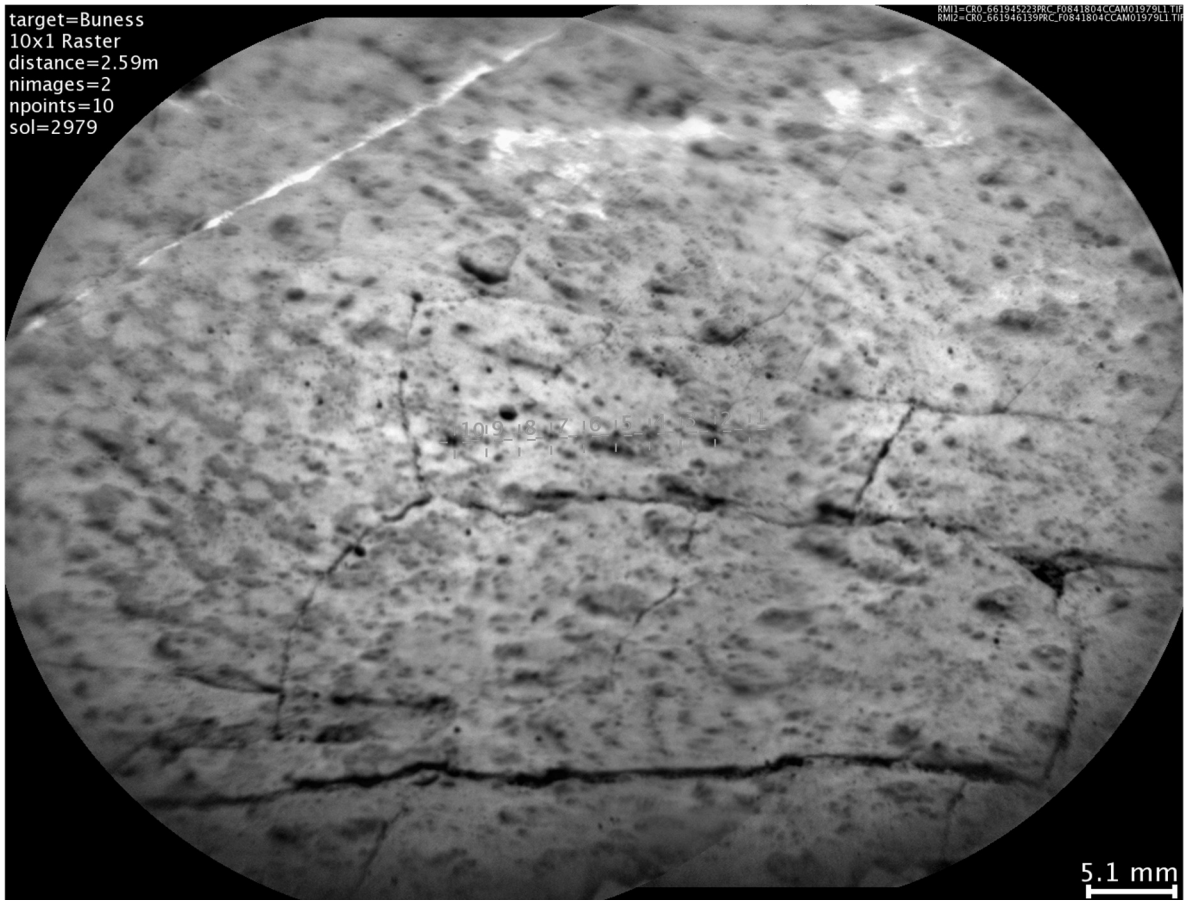



# Target: Buness

**Sol:** 2979
**Elev (m.):** -4081.61727021946
**CCAM Sequence ID:** CCAM01979

**Whole Target Classification:** Bedrock
**Lamination Strength:** Weakly Laminated
**Lamination Expression:** Absent
**Grain Visibility:** Below RMI Image Resolution
**Bedrock Appearance:** Dull
**Nodule Presence:** Pervasive (>50% by Visual Inspection)
**Nodule Diameter:** Medium (1 - 3 mm)
**Nodule Resistance:** Protruding
**Fracture Presence:** Common (~10-20% by Visual Inspection)

| # | Feature | SiO2 (wt%) | TiO2 (wt%) | Al2O3 (wt%) | FeOT (wt%) | MgO (wt%) | CaO (wt%) | Na2O (wt%) | K2O (wt%) | Sum of Oxides (wt%) |
|---|---|---|---|---|---|---|---|---|---|---|
| 1 | Bedrock | 56.8 | 0.92 | 10.7 | 17.2 | 6.5 | 1.6 | 2.08 | 1.05 | 96.85 |
| 2 | Bedrock | 50.3 | 0.93 | 11.1 | 19.4 | 5.3 | 1.4 | 2.27 | 0.92 | 91.62 |
| 3 | Bedrock | 52.7 | 0.94 | 11.9 | 20.3 | 5.1 | 1.8 | 2.34 | 0.95 | 96.03 |
| 4 | Nodule | 47.9 | 0.83 | 9.8 | 25.3 | 4.1 | 1.4 | 2.6 | 1.07 | 93 |
| 5 | Nodule | 47.5 | 0.88 | 10.1 | 24.4 | 3.7 | 1.2 | 2.53 | 0.89 | 91.2 |
| 6 | Bedrock | 53.9 | 0.95 | 13.1 | 18.6 | 6.2 | 1.8 | 2.85 | 1.26 | 98.66 |
| 7 | Bedrock | 55.1 | 0.98 | 13 | 18.8 | 6.2 | 1.8 | 2.57 | 1.22 | 99.67 |
| 8 | Bedrock | 57 | 0.98 | 13.3 | 16.2 | 7.2 | 1.8 | 2.69 | 1.39 | 100.56 |
| 9 | Bedrock | 55 | 0.86 | 11.1 | 18.5 | 6.1 | 1.9 | 2.41 | 1.2 | 97.07 |
| 10 | Nodule | 48 | 0.88 | 10.1 | 22 | 4.6 | 1.3 | 2.38 | 0.87 | 90.13 |

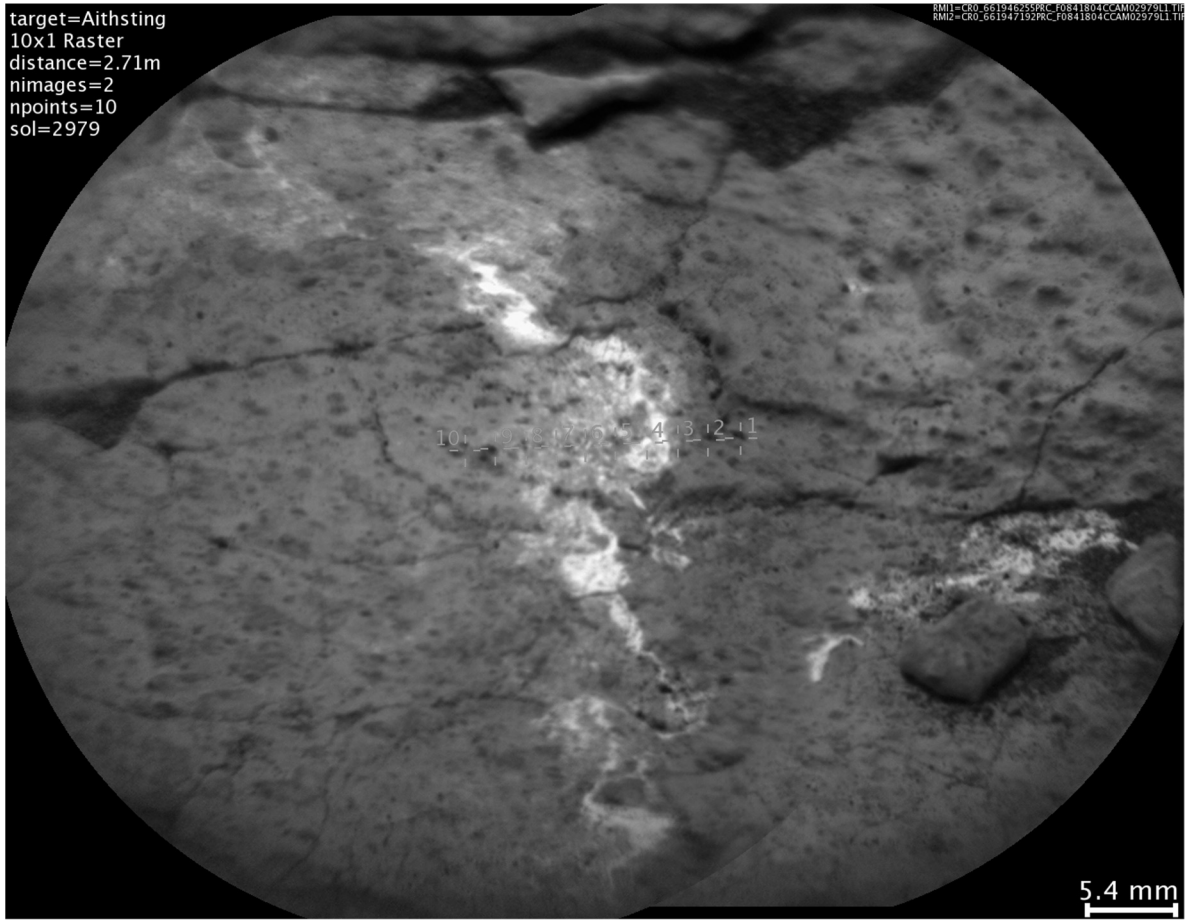


# Target: Aithsting

**Sol:** 2979
**Elev (m.):** -4081.6082381736
**CCAM Sequence ID:** CCAM02979

**Whole Target Classification:** Bedrock
**Lamination Strength:** Weakly Laminated
**Lamination Expression:** Primary Stratification
**Grain Visibility:** Below RMI Image Resolution
**Bedrock Appearance:** Dull
**Nodule Presence:** Pervasive (>50% by Visual Inspection)
**Nodule Diameter:** Medium (1 - 3 mm)
**Nodule Resistance:** Protruding
**Fracture Presence:** Pervasive (>20% by Visual Inspection)

| # | Feature | SiO2 (wt%) | TiO2 (wt%) | Al2O3 (wt%) | FeOT (wt%) | MgO (wt%) | CaO (wt%) | Na2O (wt%) | K2O (wt%) | Sum of Oxides (wt%) |
|---|---|---|---|---|---|---|---|---|---|---|
| 1 | Nodule | 51 | 0.87 | 10.5 | 21.7 | 6.1 | 2 | 2.28 | 0.81 | 95.26 |
| 2 | Bedrock | 51.8 | 0.84 | 13.1 | 19.9 | 4.9 | 1.9 | 2.72 | 1.12 | 96.28 |
| 3 | Vein or Fracture | 43.5 | 0.66 | 7.7 | 12.3 | 3.7 | 17.8 | 1.32 | 0.63 | 87.61 |
| 4 | Vein or Fracture | 12.8 | 0 | 2.1 | 2.8 | 2.4 | 36.2 | 0.32 | 0.08 | 56.7 |
| 5 | Vein or Fracture | 51.5 | 0.87 | 12.4 | 15.7 | 5 | 7.5 | 2.34 | 1.06 | 96.37 |
| 6 | Vein or Fracture | 40.4 | 0.76 | 7.7 | 11.6 | 3.6 | 19.8 | 1.03 | 0.4 | 85.29 |
| 7 | Vein or Fracture | 42 | 0.73 | 7.8 | 12.7 | 3.9 | 18.1 | 1.27 | 0.51 | 87.01 |
| 8 | Vein or Fracture | 33.5 | 0.7 | 7.2 | 25.4 | 2.6 | 14.1 | 1.28 | 0.42 | 85.2 |
| 9 | Nodule | 45.9 | 0.82 | 8.5 | 26.5 | 3.3 | 2 | 2.35 | 1.22 | 90.59 |
| 10 | Bedrock | 57.1 | 0.92 | 11.5 | 15.4 | 7.5 | 2 | 2.65 | 1.31 | 98.38 |



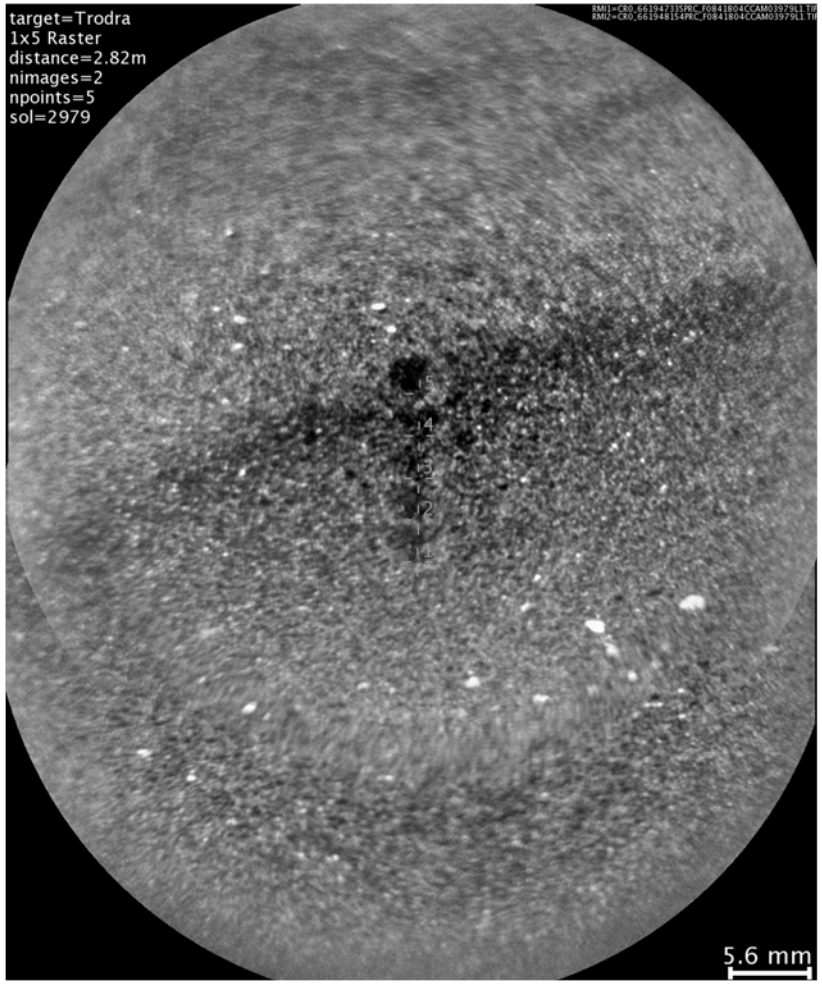
# Target: Trodra

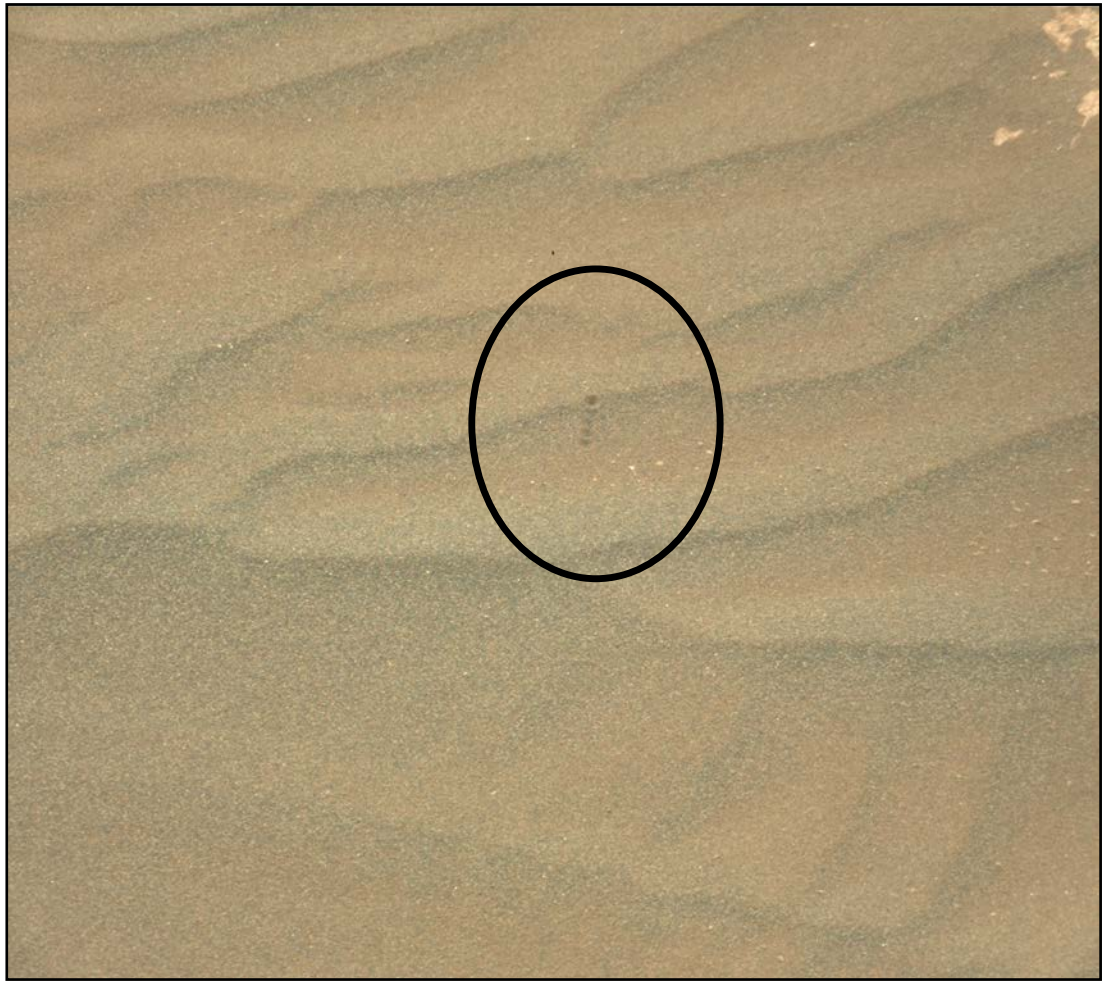
**Sol:** 2979
**Elev (m.):** -4081.49317064881

**CCAM Sequence ID:** CCAM03979

**Whole Target Classification:** Unconsolidated (Sand/Soil/Pebbles)
**Lamination Strength:** Absent
**Lamination Expression:** Absent
**Grain Visibility:** Above RMI Image Resolution
**Bedrock Appearance:** Dull
**Nodule Presence:** Absent
**Nodule Diameter:** Absent
**Nodule Resistance:** Absent
**Fracture Presence:** Absent

| # | Feature | SiO2 (wt%) | TiO2 (wt%) | Al2O3 (wt%) | FeOT (wt%) | MgO (wt%) | CaO (wt%) | Na2O (wt%) | K2O (wt%) | Sum of Oxides (wt%) |
|---|---|---|---|---|---|---|---|---|---|---|
| 1 | Sand | 43.9 | 0.97 | 9.2 | 19.6 | 7.8 | 7.4 | 2.14 | 0.46 | 91.47 |
| 2 | Sand | 43.9 | 0.92 | 9.5 | 20 | 7.3 | 7.5 | 2.22 | 0.49 | 91.83 |
| 3 | Sand | 43.7 | 0.93 | 10 | 20.3 | 7.2 | 7.7 | 2.36 | 0.54 | 92.73 |
| 4 | Sand | 45 | 0.89 | 10.4 | 20.7 | 6.7 | 7.4 | 2.66 | 0.71 | 94.46 |
| 5 | Sand | 44.3 | 0.93 | 9.4 | 20 | 7.6 | 7.6 | 2.17 | 0.46 | 92.46 |



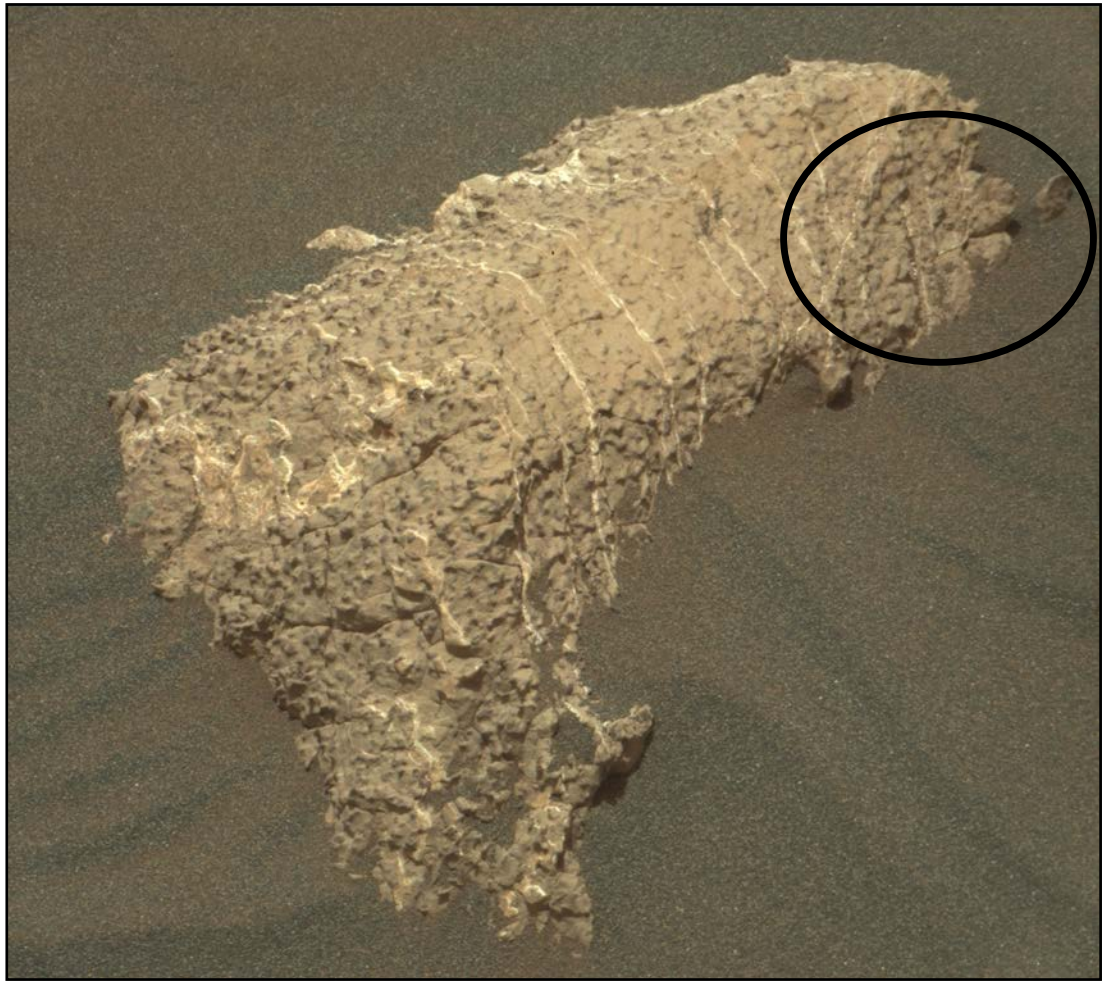



# Target: Fethaland

**Sol:** 2989
**Elev (m.):** -4080.10723050049
**CCAM Sequence ID:** CCAM01989

**Whole Target Classification:** Bedrock
**Lamination Strength:** Absent
**Lamination Expression:** Absent
**Grain Visibility:** Unclear
**Bedrock Appearance:** Dull
**Nodule Presence:** Common (~30% by Visual Inspection
**Nodule Diameter:** Medium (1 - 3 mm)
**Nodule Resistance:** Protruding
**Fracture Presence:** Pervasive (>20% by Visual Inspection)

| # | Feature | SiO2 (wt%) | TiO2 (wt%) | Al2O3 (wt%) | FeOT (wt%) | MgO (wt%) | CaO (wt%) | Na2O (wt%) | K2O (wt%) | Sum of Oxides (wt%) |
|---|---|---|---|---|---|---|---|---|---|---|
| 1 | Bedrock | 55.2 | 0.89 | 10.7 | 13 | 7.4 | 2.2 | 2.62 | 1.37 | 93.38 |
| 2 | Bedrock | 47.6 | 0.89 | 10.3 | 21.2 | 5.5 | 1.5 | 2.21 | 0.76 | 89.96 |
| 3 | Bedrock | 49.4 | 0.91 | 8.6 | 19.8 | 5.9 | 2.2 | 2.11 | 0.97 | 89.89 |
| 4 | Bedrock | 48.8 | 0.95 | 9.7 | 20.2 | 5.5 | 1.3 | 2.46 | 1.23 | 90.14 |
| 5 | Vein or Fracture | 45.9 | 0.94 | 10 | 19.6 | 5.7 | 6.5 | 2.01 | 0.85 | 91.5 |
| 6 | Nodule | 46.6 | 0.94 | 8.3 | 21.4 | 5.4 | 1.2 | 2.56 | 1.25 | 87.65 |
| 7 | Bedrock | 46.7 | 0.91 | 9.1 | 20 | 4.5 | 0.9 | 2.22 | 1.23 | 85.56 |
| 8 | Bedrock | 54.1 | 1.05 | 10.9 | 16.2 | 6.7 | 2.4 | 2.64 | 1.05 | 95.04 |
| 9 | Bedrock | 55.2 | 0.85 | 12.8 | 18 | 6.4 | 2 | 2.77 | 1.41 | 99.43 |
| 10 | Bedrock | 52.3 | 0.89 | 11 | 18.9 | 6.6 | 2.1 | 2.55 | 1.23 | 95.57 |

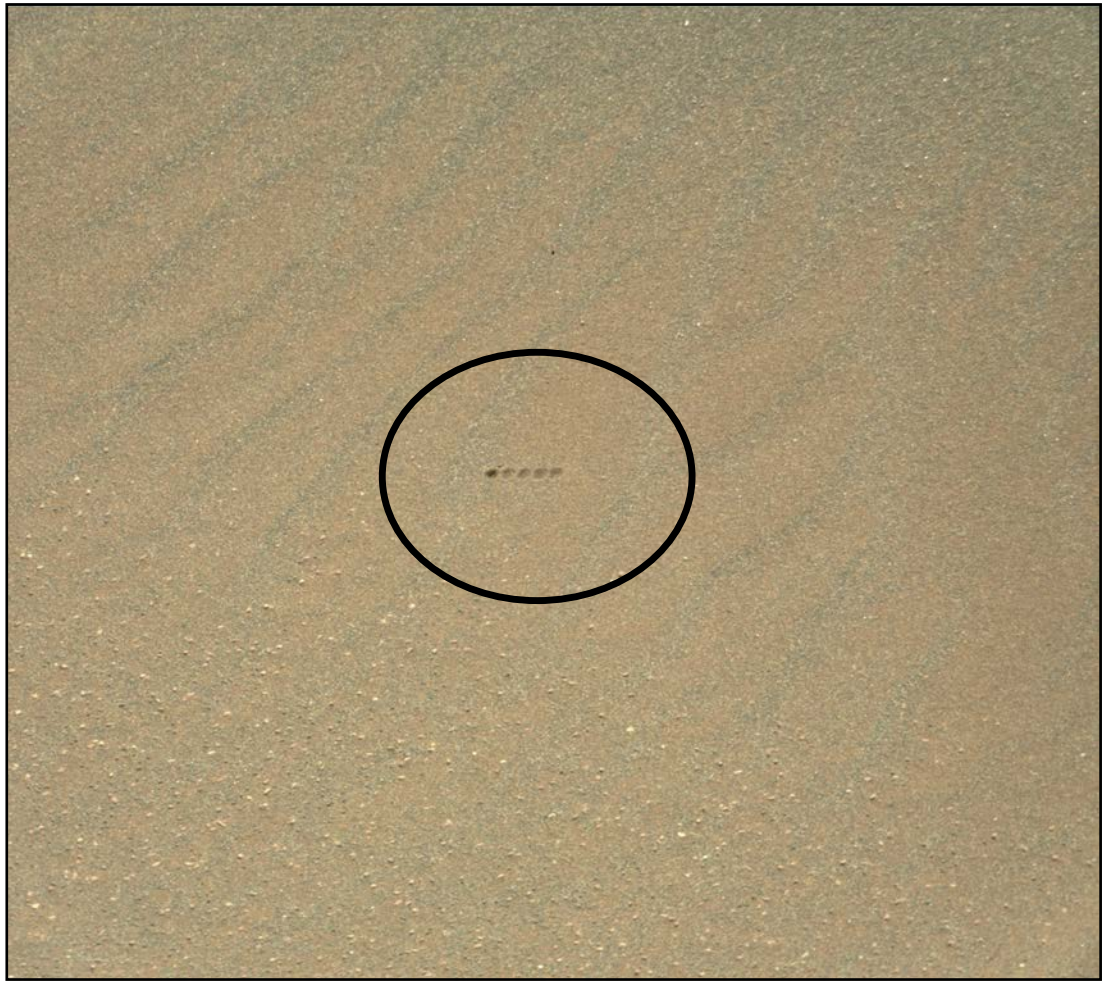


# Target: Mill_Loch

**Sol:** 2989
**Elev (m.):** -4080.16015415572
**CCAM Sequence ID:** CCAM02989

**Whole Target Classification:** Unconsolidated (Sand/Soil/Pebbles)
**Lamination Strength:** Absent
**Lamination Expression:** Absent
**Grain Visibility:** Above RMI Image Resolution
**Bedrock Appearance:** Dull
**Nodule Presence:** Absent
**Nodule Diameter:** Absent
**Nodule Resistance:** Absent
**Fracture Presence:** Absent

| # | Feature | SiO2 (wt%) | TiO2 (wt%) | Al2O3 (wt%) | FeOT (wt%) | MgO (wt%) | CaO (wt%) | Na2O (wt%) | K2O (wt%) | Sum of Oxides (wt%) |
|---|---|---|---|---|---|---|---|---|---|---|
| 1 | Sand | 43.6 | 0.9 | 9.3 | 19.7 | 7.4 | 7.6 | 2.15 | 0.44 | 91.09 |
| 2 | Sand | 44.1 | 0.9 | 9.4 | 19.6 | 7.5 | 7.6 | 2.17 | 0.46 | 91.73 |
| 3 | Sand | 44.1 | 0.95 | 9.4 | 19.4 | 7.4 | 7.7 | 2.18 | 0.45 | 91.58 |
| 4 | Sand | 43.5 | 0.92 | 9.5 | 20.1 | 6.9 | 7.5 | 2.27 | 0.53 | 91.22 |
| 5 | Sand | 42.5 | 0.91 | 9.1 | 19.8 | 7.3 | 7.6 | 2.04 | 0.41 | 89.66 |

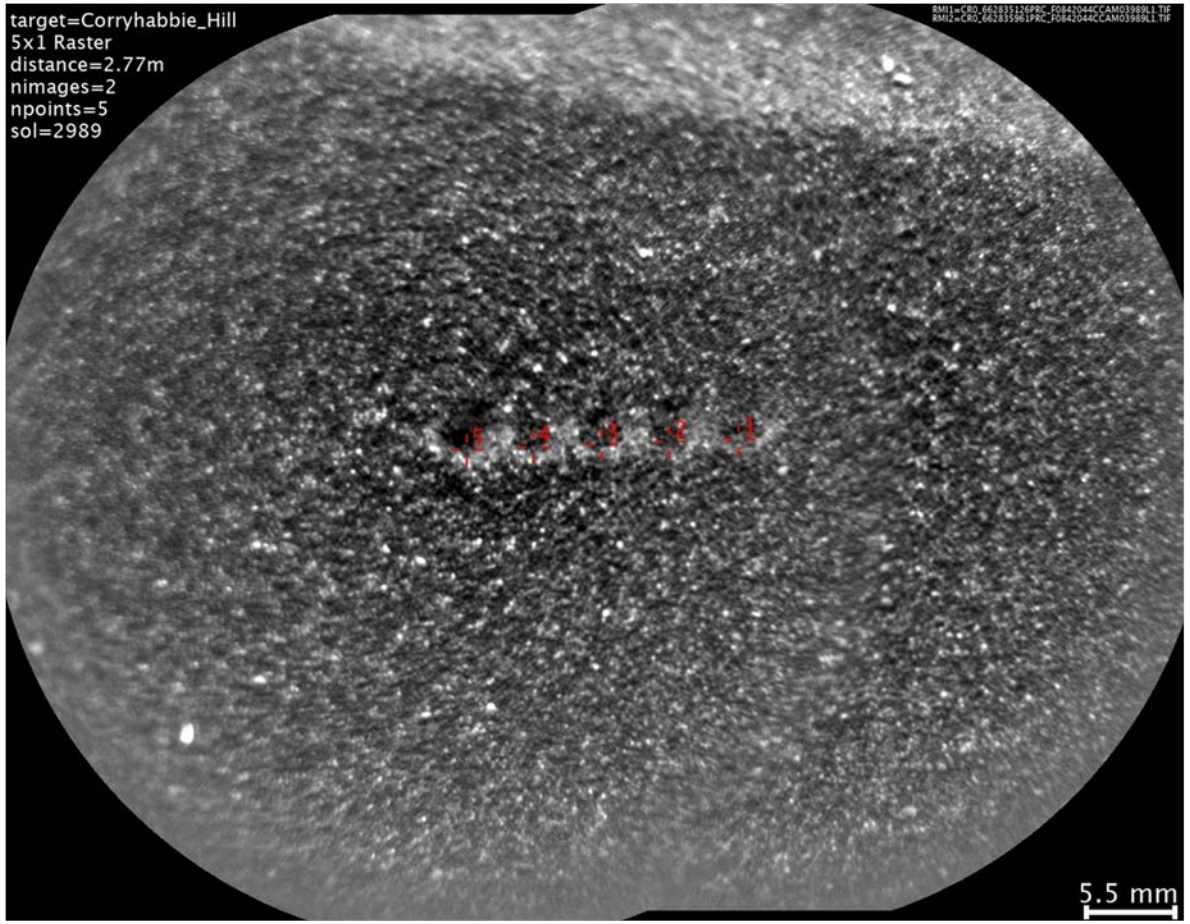


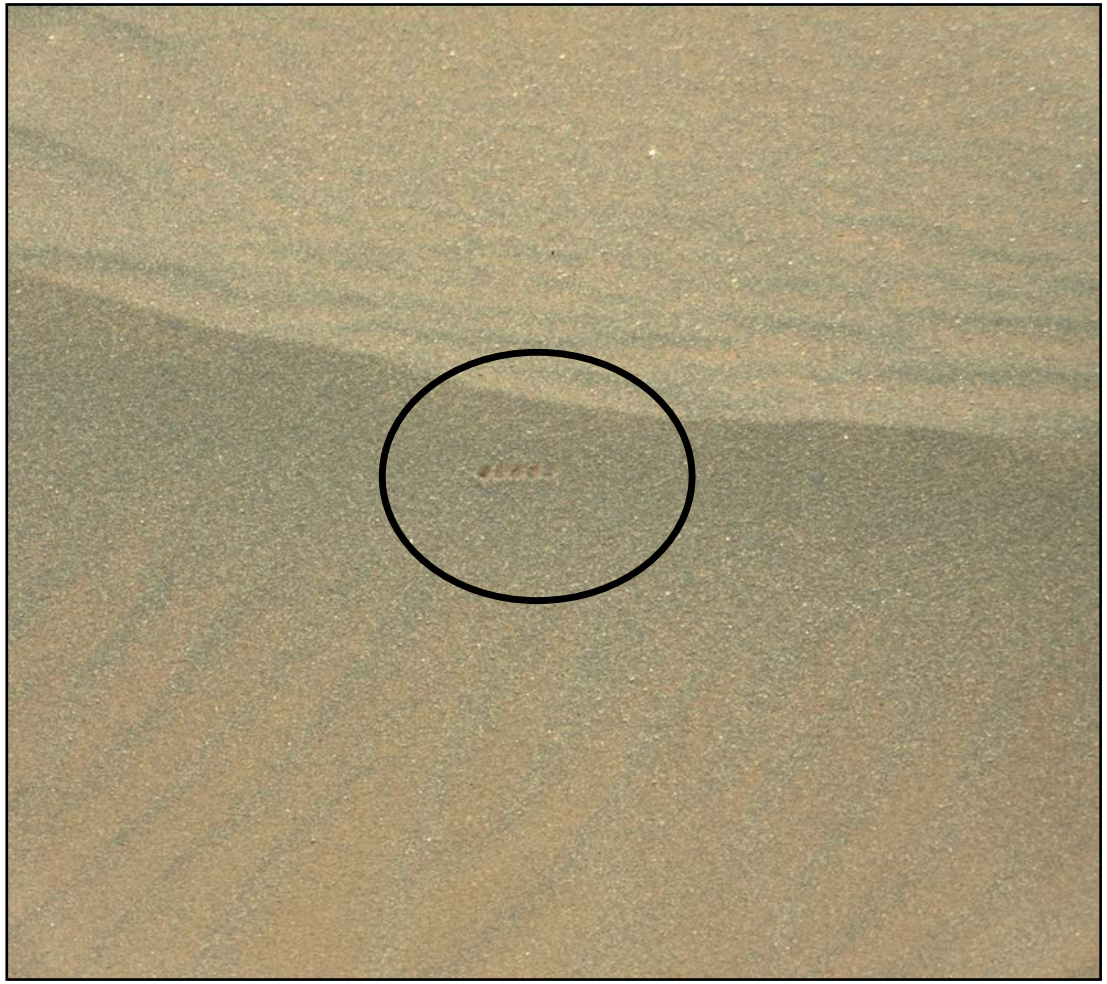
# Target: Corryhabbie_Hill

**Sol:** 2989
**Elev (m.):** -4080.11660864731
**CCAM Sequence ID:** CCAM03989

**Whole Target Classification:** Unconsolidated (Sand/Soil/Pebbles)
**Lamination Strength:** Absent
**Lamination Expression:** Absent
**Grain Visibility:** Above RMI Image Resolution
**Bedrock Appearance:** Dull
**Nodule Presence:** Absent
**Nodule Diameter:** Absent
**Nodule Resistance:** Absent
**Fracture Presence:** Absent

| # | Feature | SiO2 (wt%) | TiO2 (wt%) | Al2O3 (wt%) | FeOT (wt%) | MgO (wt%) | CaO (wt%) | Na2O (wt%) | K2O (wt%) | Sum of Oxides (wt%) |
|---|---|---|---|---|---|---|---|---|---|---|
| 1 | Sand | 44.1 | 0.92 | 10 | 19.6 | 7.1 | 7.9 | 2.28 | 0.5 | 92.4 |
| 2 | Sand | 43.9 | 0.92 | 9.1 | 19.9 | 8.6 | 7.1 | 2.22 | 0.48 | 92.22 |
| 3 | Sand | 44 | 0.91 | 9.7 | 19.9 | 7.4 | 7.7 | 2.33 | 0.48 | 92.42 |
| 4 | Sand | 43.9 | 0.91 | 9.6 | 19.9 | 7.5 | 7.6 | 2.25 | 0.48 | 92.14 |
| 5 | Sand | 43.8 | 0.94 | 9.5 | 19.8 | 7.4 | 7.6 | 2.2 | 0.49 | 91.73 |



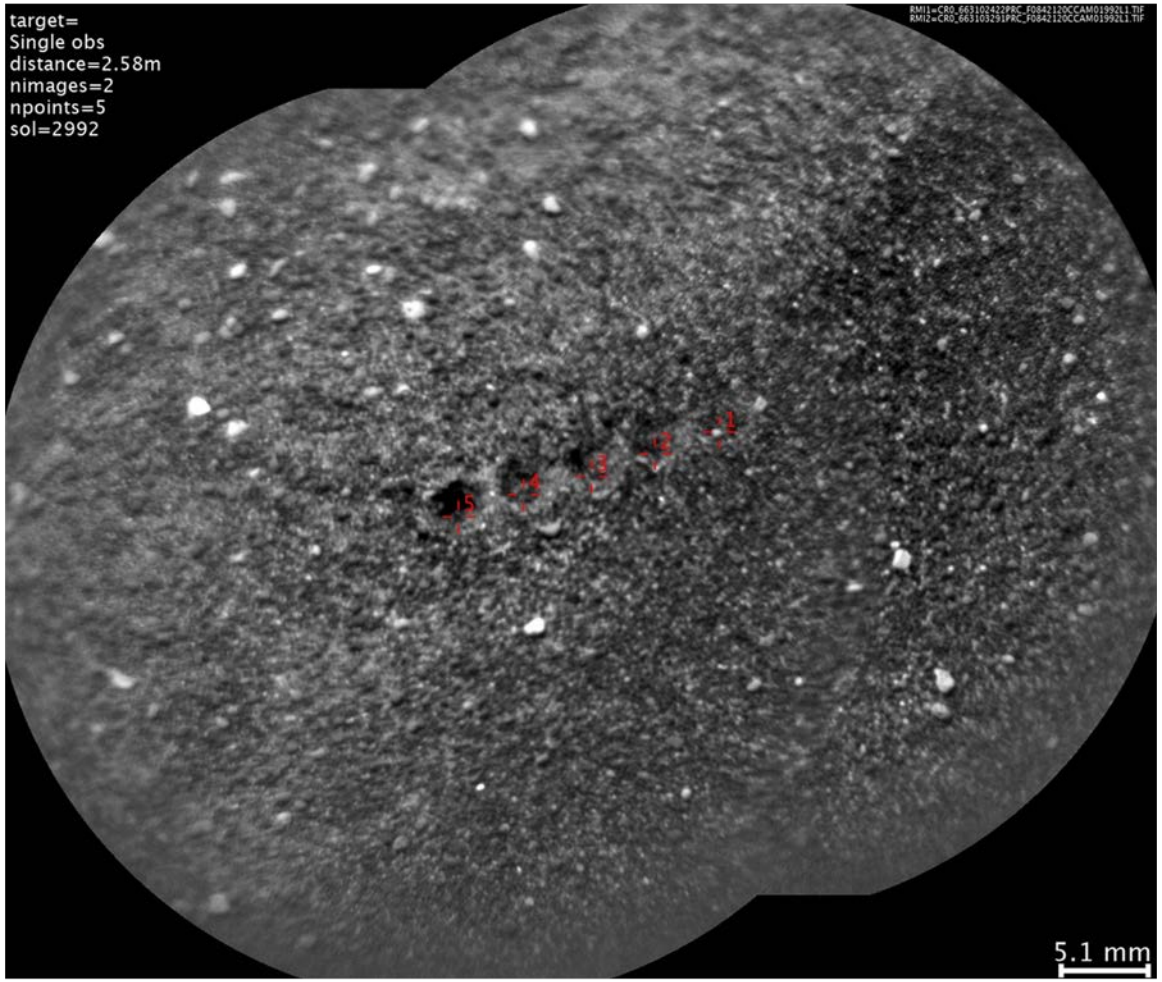
# Target: Carsaig_East

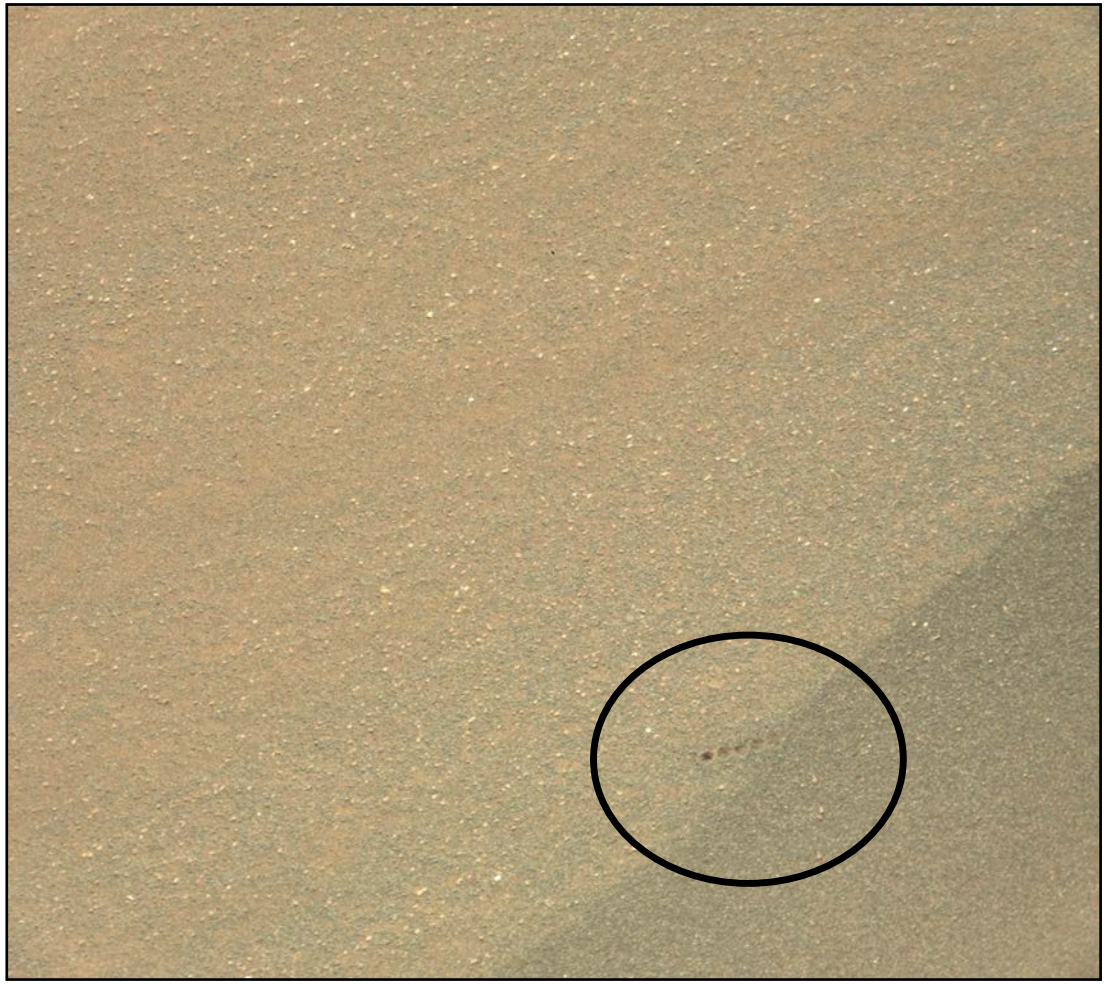
**Sol:** 2992
**Elev (m.):** -4079.9111575321

**CCAM Sequence ID:** CCAM01992

**Whole Target Classification:** Unconsolidated (Sand/Soil/Pebbles)
**Lamination Strength:** Absent
**Lamination Expression:** Absent
**Grain Visibility:** Above RMI Image Resolution
**Bedrock Appearance:** Dull
**Nodule Presence:** Absent
**Nodule Diameter:** Absent
**Nodule Resistance:** Absent
**Fracture Presence:** Absent

| # | Feature | SiO2 (wt%) | TiO2 (wt%) | Al2O3 (wt%) | FeOT (wt%) | MgO (wt%) | CaO (wt%) | Na2O (wt%) | K2O (wt%) | Sum of Oxides (wt%) |
|---|---|---|---|---|---|---|---|---|---|---|
| 1 | Sand | 43.6 | 0.89 | 9.3 | 19.3 | 7.5 | 7.6 | 2.22 | 0.46 | 90.87 |
| 2 | Sand | 41.8 | 0.91 | 9.2 | 19.7 | 7.6 | 7.7 | 2.03 | 0.4 | 89.34 |
| 3 | Sand | 42 | 0.98 | 8.8 | 19.9 | 7.5 | 7.4 | 2.09 | 0.41 | 89.08 |
| 4 | Sand | 42.5 | 0.97 | 9.4 | 20 | 7.8 | 7.5 | 2.03 | 0.36 | 90.56 |
| 5 | Sand | 42.8 | 0.91 | 8.9 | 19.7 | 7.6 | 7.6 | 2.06 | 0.38 | 89.95 |



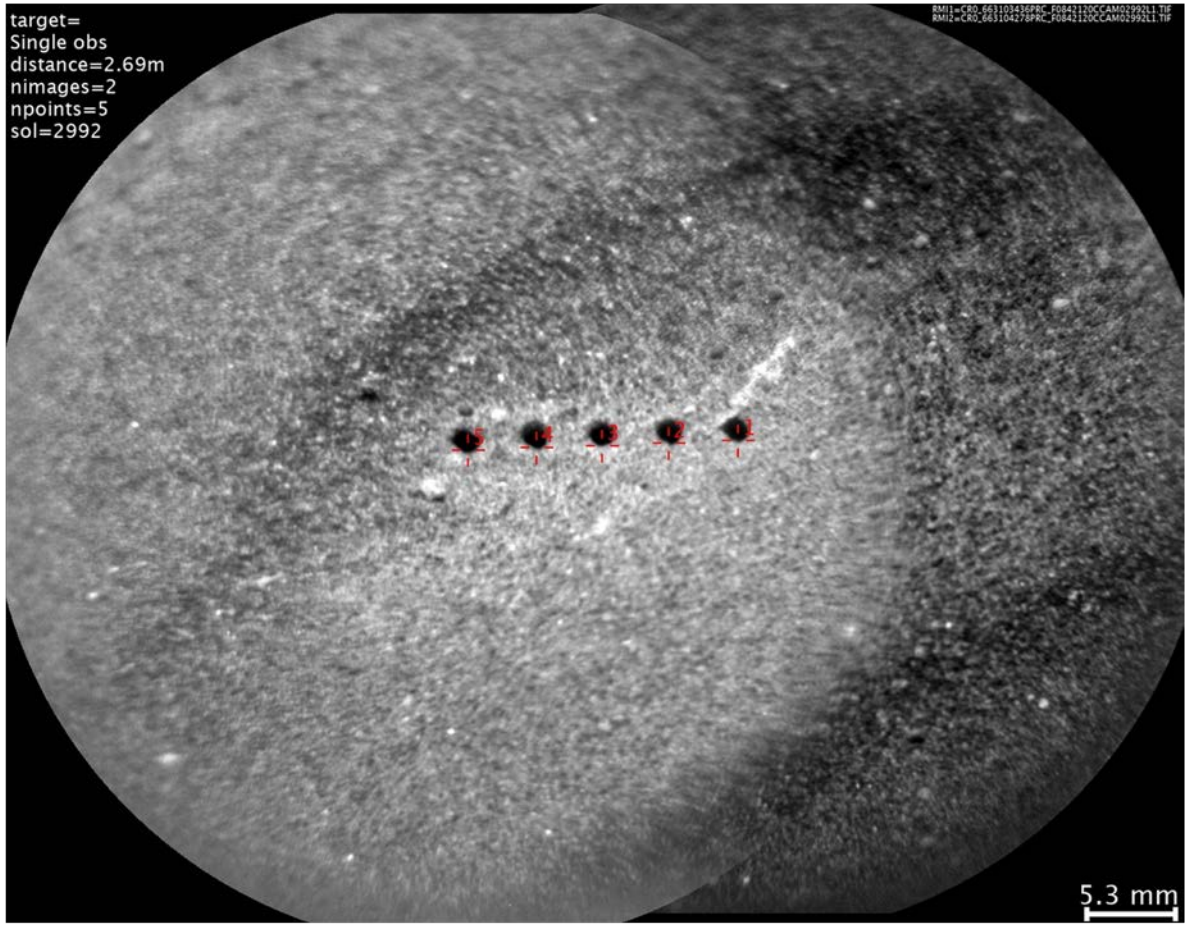



# Target: Carsaig_Arches

**Sol:** 2992
**Elev (m.):** -4079.98951721998
**CCAM Sequence ID:** CCAM02992

**Whole Target Classification:** Unconsolidated (Sand/Soil/Pebbles)
**Lamination Strength:** Absent
**Lamination Expression:** Absent
**Grain Visibility:** Above RMI Image Resolution
**Bedrock Appearance:** Dull
**Nodule Presence:** Absent
**Nodule Diameter:** Absent
**Nodule Resistance:** Absent
**Fracture Presence:** Absent

| # | Feature | SiO2 (wt%) | TiO2 (wt%) | Al2O3 (wt%) | FeOT (wt%) | MgO (wt%) | CaO (wt%) | Na2O (wt%) | K2O (wt%) | Sum of Oxides (wt%) |
|---|---|---|---|---|---|---|---|---|---|---|
| 1 | Sand | 40.3 | 0.78 | 8 | 19.1 | 8.1 | 7 | 1.66 | 0.2 | 85.14 |
| 2 | Sand | 41 | 0.81 | 8.1 | 18.9 | 8.2 | 7 | 1.68 | 0.2 | 85.89 |
| 3 | Sand | 41.3 | 0.81 | 8.3 | 19.1 | 8.1 | 7 | 1.71 | 0.22 | 86.54 |
| 4 | Sand | 41 | 0.81 | 8.3 | 19.5 | 8 | 7 | 1.74 | 0.23 | 86.58 |
| 5 | Sand | 40.9 | 0.8 | 8.3 | 19.2 | 8.1 | 7.1 | 1.77 | 0.21 | 86.38 |

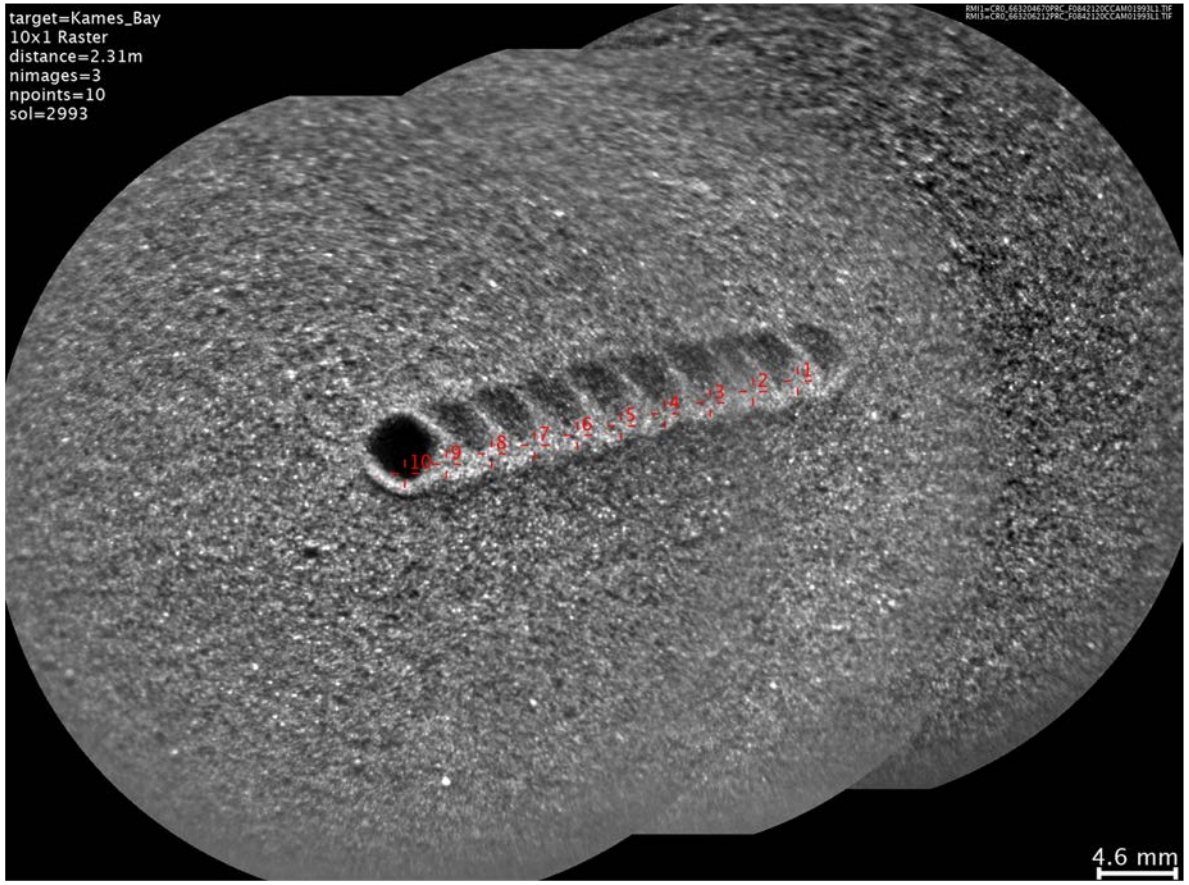


# Target: Kames_Bay

**Sol:** 2993
**Elev (m.):** -4080.08193572874
**CCAM Sequence ID:** CCAM01993

**Whole Target Classification:** Unconsolidated (Sand/Soil/Pebbles)
**Lamination Strength:** Absent
**Lamination Expression:** Absent
**Grain Visibility:** Above RMI Image Resolution
**Bedrock Appearance:** Dull
**Nodule Presence:** Absent
**Nodule Diameter:** Absent
**Nodule Resistance:** Absent
**Fracture Presence:** Absent

| # | Feature | SiO2 (wt%) | TiO2 (wt%) | Al2O3 (wt%) | FeOT (wt%) | MgO (wt%) | CaO (wt%) | Na2O (wt%) | K2O (wt%) | Sum of Oxides (wt%) |
|---|---|---|---|---|---|---|---|---|---|---|
| 1 | Sand | 39.9 | 0.9 | 7.9 | 19.2 | 8 | 6.9 | 1.65 | 0.25 | 84.7 |
| 2 | Sand | 40.4 | 0.91 | 8.2 | 19.5 | 7.9 | 7.1 | 1.72 | 0.29 | 86.02 |
| 3 | Sand | 40.1 | 0.89 | 8.2 | 19.2 | 8.2 | 7 | 1.7 | 0.24 | 85.53 |
| 4 | Sand | 40.4 | 0.88 | 8.2 | 19.2 | 7.8 | 7.1 | 1.7 | 0.25 | 85.53 |
| 5 | Sand | 40.5 | 0.89 | 8.4 | 19.5 | 7.9 | 7.1 | 1.8 | 0.28 | 86.37 |
| 6 | Sand | 40.6 | 0.91 | 8.6 | 19.5 | 7.9 | 7.1 | 1.87 | 0.31 | 86.79 |
| 7 | Sand | 40.7 | 0.88 | 8.3 | 19.6 | 8 | 6.8 | 1.76 | 0.26 | 86.3 |
| 8 | Sand | 40.6 | 0.89 | 8.3 | 19.7 | 7.9 | 7 | 1.75 | 0.27 | 86.41 |
| 9 | Sand | 40.6 | 0.9 | 8.1 | 19.9 | 8.1 | 6.8 | 1.68 | 0.26 | 86.34 |
| 10 | Sand | 40.4 | 0.89 | 8 | 19.6 | 8.4 | 6.8 | 1.7 | 0.27 | 86.06 |

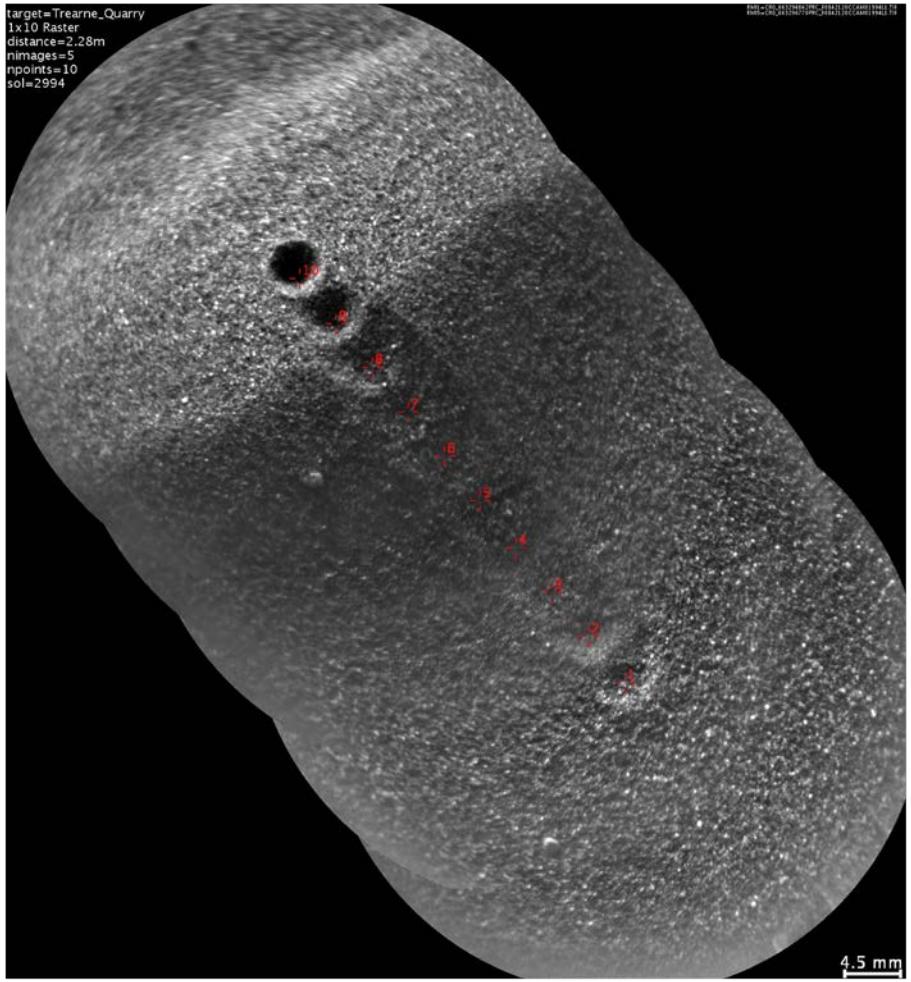


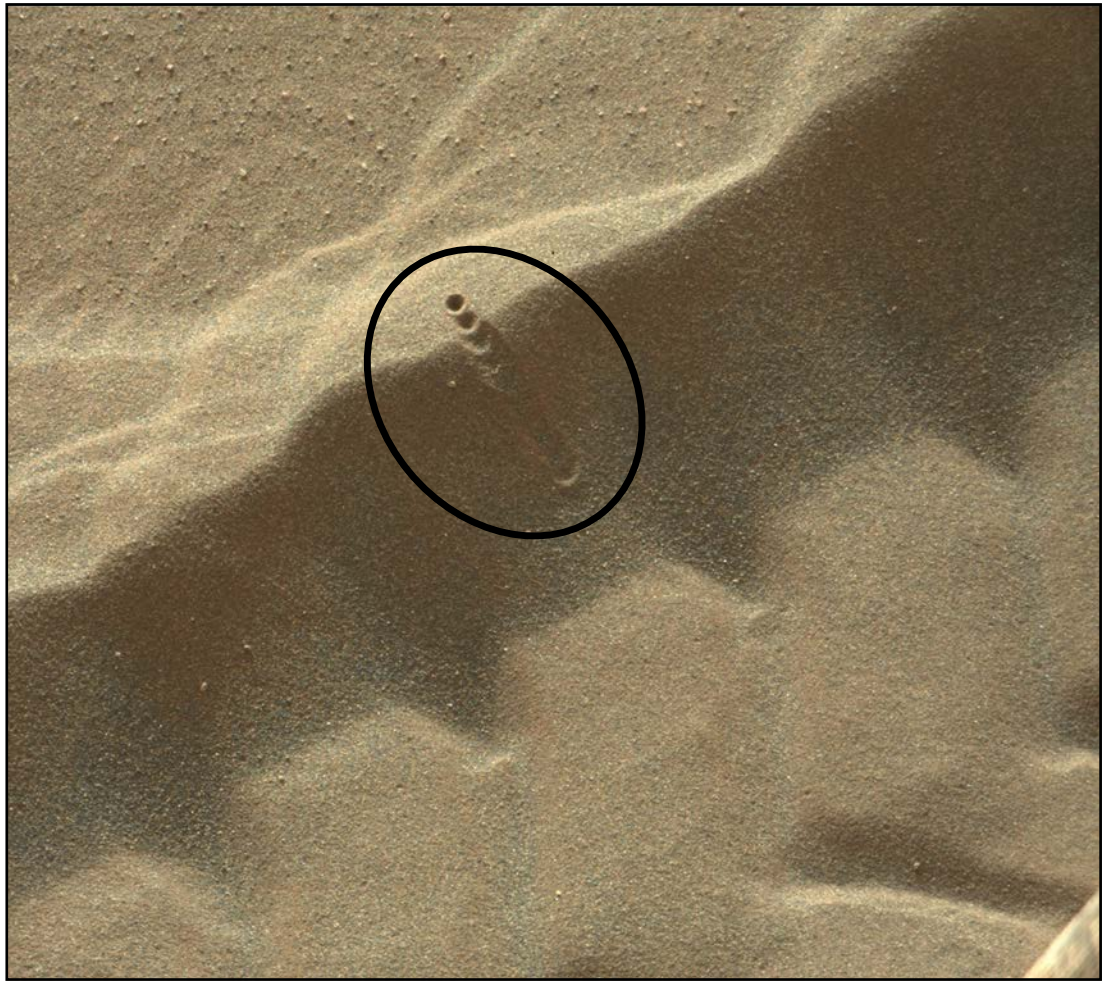
# Target: Trearne_Quarry

**Sol:** 2994
**Elev (m.):** -4080.16230599554
**CCAM Sequence ID:** CCAM01994

**Whole Target Classification:** Unconsolidated (Sand/Soil/Pebbles)
**Lamination Strength:** Absent
**Lamination Expression:** Absent
**Grain Visibility:** Above RMI Image Resolution
**Bedrock Appearance:** Dull
**Nodule Presence:** Absent
**Nodule Diameter:** Absent
**Nodule Resistance:** Absent
**Fracture Presence:** Absent

| # | Feature | SiO2 (wt%) | TiO2 (wt%) | Al2O3 (wt%) | FeOT (wt%) | MgO (wt%) | CaO (wt%) | Na2O (wt%) | K2O (wt%) | Sum of Oxides (wt%) |
|---|---|---|---|---|---|---|---|---|---|---|
| 1 | Sand | 41.4 | 0.89 | 8.1 | 19.5 | 8 | 7 | 1.86 | 0.36 | 87.11 |
| 2 | Sand | 41.7 | 0.9 | 8.5 | 19.7 | 7.8 | 6.9 | 1.97 | 0.41 | 87.88 |
| 3 | Sand | 41.5 | 0.93 | 8.4 | 19.9 | 7.6 | 6.7 | 1.93 | 0.38 | 87.34 |
| 4 | Sand | 41.9 | 0.91 | 8.3 | 19.9 | 7.7 | 6.7 | 1.96 | 0.43 | 87.8 |
| 5 | Sand | 41.8 | 0.92 | 8.4 | 20.2 | 7.6 | 6.8 | 1.97 | 0.41 | 88.1 |
| 6 | Sand | 41.6 | 0.9 | 8.1 | 19.8 | 7.8 | 6.7 | 1.97 | 0.43 | 87.3 |
| 7 | Sand | 41.7 | 0.9 | 8.3 | 19.8 | 8.1 | 6.9 | 1.94 | 0.41 | 88.05 |
| 8 | Sand | 41.6 | 0.93 | 8.2 | 19.7 | 8 | 6.9 | 1.95 | 0.39 | 87.67 |
| 9 | Sand | 41.4 | 0.91 | 8.2 | 20.1 | 7.8 | 6.7 | 1.97 | 0.36 | 87.44 |
| 10 | Sand | 40.8 | 0.88 | 8.2 | 19.7 | 7.8 | 7.1 | 1.87 | 0.31 | 86.66 |



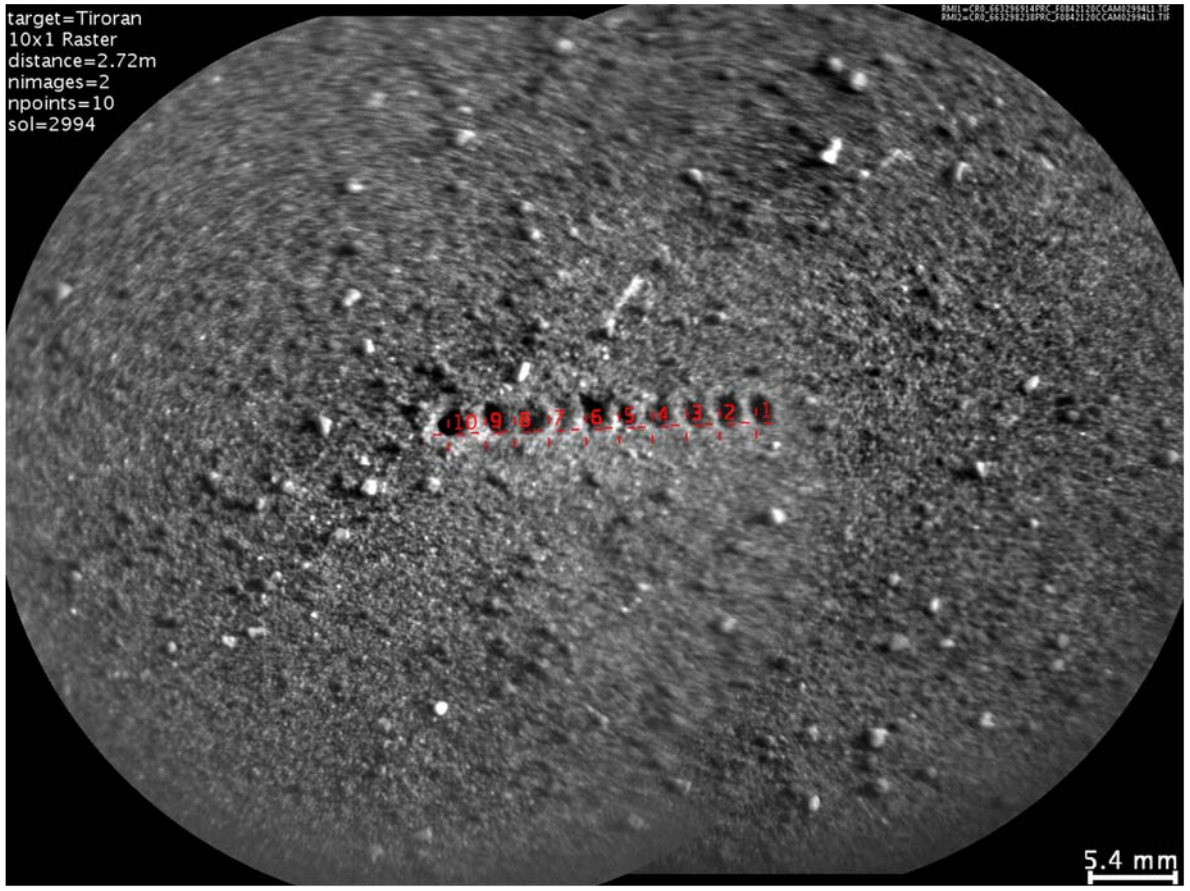



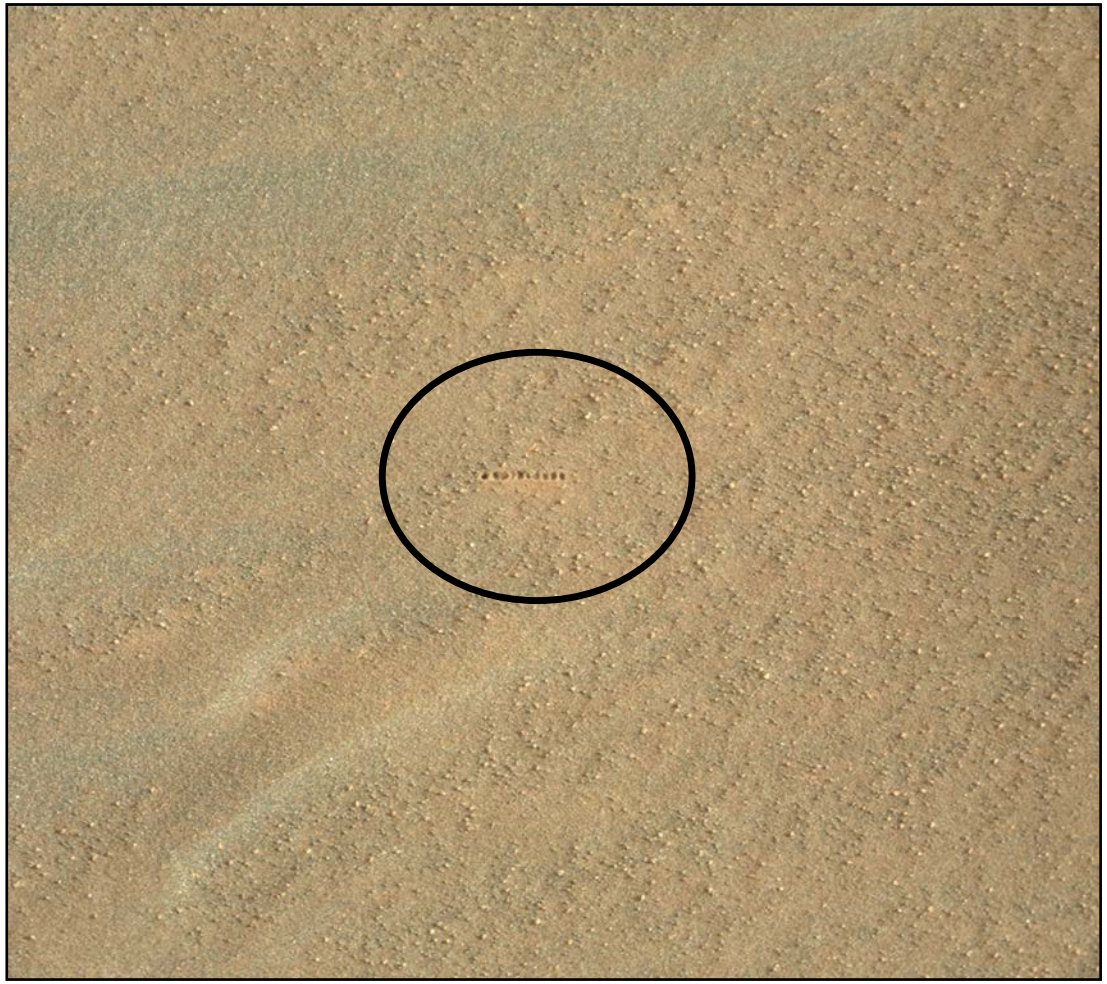
# Target: Tiroran

**Sol:** 2994
**Elev (m.):** -4079.96797237452
**CCAM Sequence ID:** CCAM02994

**Whole Target Classification:** Unconsolidated (Sand/Soil/Pebbles)
**Lamination Strength:** Absent
**Lamination Expression:** Absent
**Grain Visibility:** Above RMI Image Resolution
**Bedrock Appearance:** Dull
**Nodule Presence:** Absent
**Nodule Diameter:** Absent
**Nodule Resistance:** Absent
**Fracture Presence:** Absent

| # | Feature | SiO2 (wt%) | TiO2 (wt%) | Al2O3 (wt%) | FeOT (wt%) | MgO (wt%) | CaO (wt%) | Na2O (wt%) | K2O (wt%) | Sum of Oxides (wt%) |
|---|---|---|---|---|---|---|---|---|---|---|
| 1 | Sand | 39.2 | 0.76 | 7.9 | 18.5 | 8.1 | 7.1 | 1.64 | 0.17 | 83.37 |
| 2 | Sand | 39.2 | 0.8 | 7.9 | 18.6 | 8.2 | 7 | 1.56 | 0.17 | 83.43 |
| 3 | Sand | 39.7 | 0.78 | 7.9 | 18.7 | 8.2 | 6.9 | 1.58 | 0.17 | 83.93 |
| 4 | Sand | 40 | 0.79 | 8 | 18.6 | 8.3 | 6.9 | 1.56 | 0.16 | 84.31 |
| 5 | Sand | 40.1 | 0.81 | 7.9 | 18.6 | 8.3 | 7 | 1.55 | 0.17 | 84.43 |
| 6 | Sand | 39.7 | 0.81 | 7.8 | 19.1 | 8.3 | 6.9 | 1.55 | 0.16 | 84.32 |
| 7 | Sand | 39.8 | 0.79 | 7.8 | 19 | 8.3 | 7 | 1.61 | 0.17 | 84.47 |
| 8 | Sand | 42.8 | 0.9 | 9.2 | 18.3 | 9.4 | 6.4 | 1.86 | 0.2 | 89.06 |
| 9 | Sand | 39.5 | 0.81 | 8 | 18.9 | 8.1 | 7 | 1.7 | 0.2 | 84.21 |
| 10 | Sand | 39.3 | 0.77 | 7.8 | 18.4 | 8.1 | 7.1 | 1.57 | 0.16 | 83.2 |

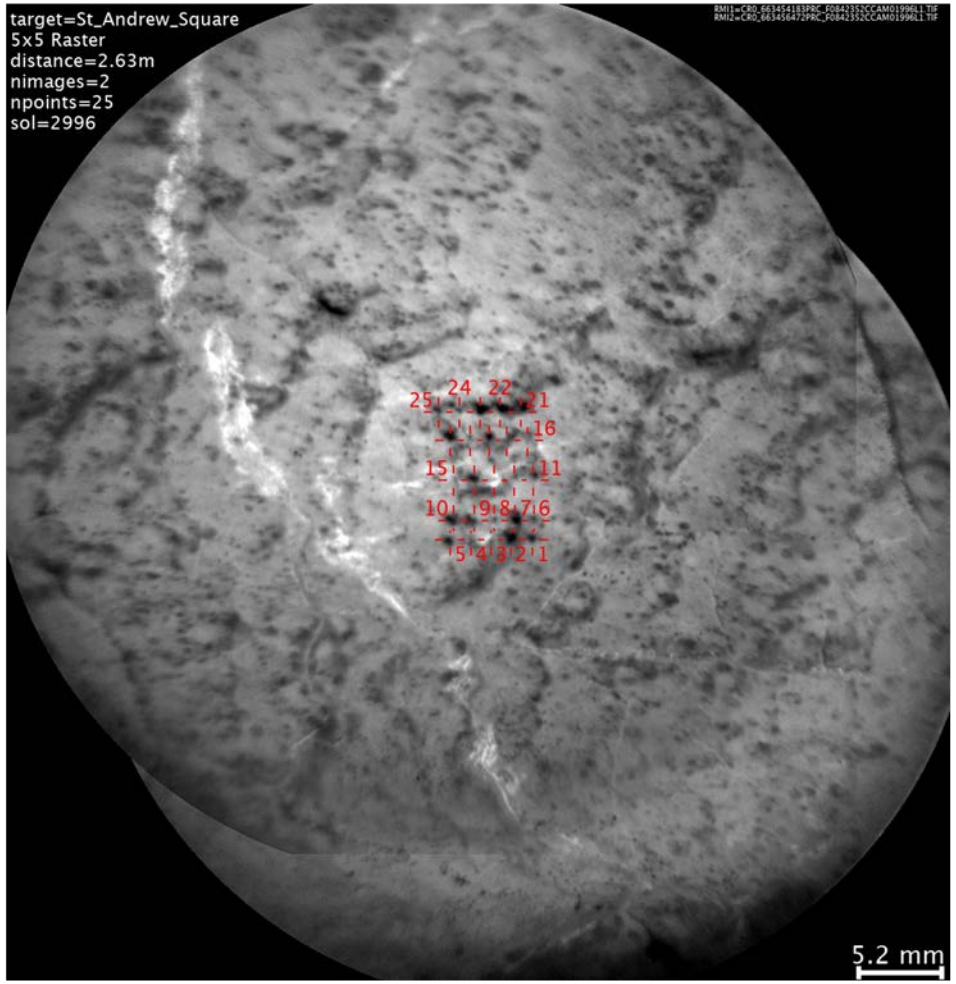


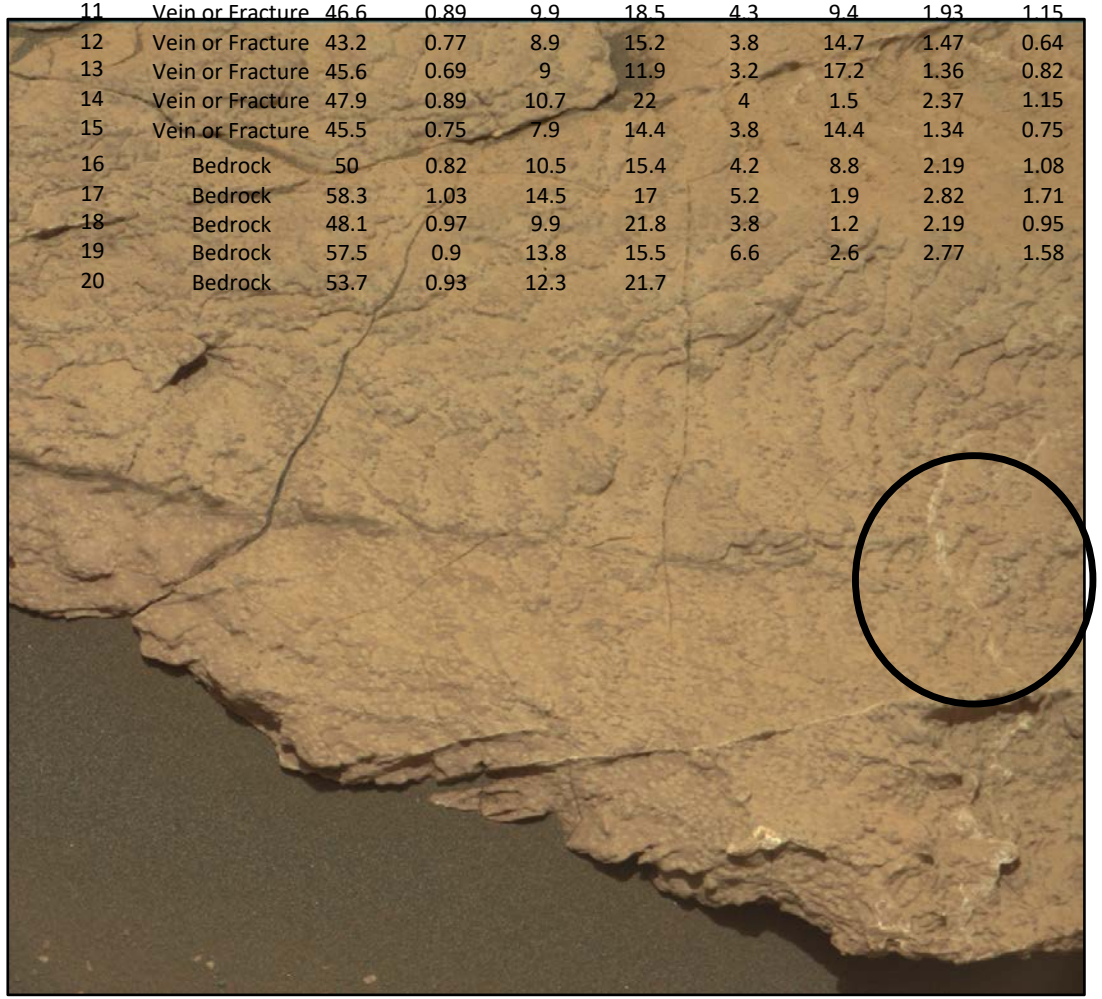
# Target: St_Andrew_Square

**Sol:** 2996
**Elev (m.):** -4081.71129592803
**CCAM Sequence ID:** CCAM01996

**Whole Target Classification:** Bedrock
**Lamination Strength:** Weakly Laminated
**Lamination Expression:** Primary Stratification
**Grain Visibility:** Below RMI Image Resolution
**Bedrock Appearance:** Dull
**Nodule Presence:** Absent
**Nodule Diameter:** Absent
**Nodule Resistance:** Absent
**Fracture Presence:** Common (~10-20% by Visual Inspection)




| # | Feature | SiO2 (wt%) | TiO2 (wt%) | Al2O3 (wt%) | FeOT (wt%) | MgO (wt%) | CaO (wt%) | Na2O (wt%) | K2O (wt%) | Sum of Oxides (wt%) |
|---|---|---|---|---|---|---|---|---|---|---|
| 1 | Bedrock | 53 | 0.99 | 12.2 | 20.7 | 5.1 | 1.4 | 2.71 | 1.48 | 97.58 |
| 2 | Bedrock | 49.6 | 0.92 | 10.2 | 19.8 | 4.3 | 1.3 | 2.71 | 1.49 | 90.32 |
| 3 | Vein or Fracture | 47.8 | 0.78 | 9.4 | 14.6 | 3.4 | 12.4 | 1.61 | 1.1 | 91.09 |
| 4 | Vein or Fracture | 29.6 | 0.62 | 6.1 | 13.7 | 2.2 | 21.3 | 0.93 | 0.4 | 74.85 |
| 5 | Bedrock | 52.2 | 0.95 | 11.1 | 21.4 | 4.9 | 2.1 | 2.62 | 1.38 | 96.65 |
| 6 | Bedrock | 55.2 | 1 | 12.8 | 19.2 | 5.4 | 1.8 | 2.78 | 1.55 | 99.73 |
| 7 | Bedrock | 50.3 | 0.88 | 10.4 | 18.6 | 3.9 | 1.2 | 2.67 | 1.55 | 89.5 |
| 8 | Bedrock | 55.3 | 0.96 | 12.1 | 16.8 | 4.9 | 4.3 | 2.57 | 1.68 | 98.61 |
| 9 | Bedrock | 52.2 | 1.03 | 11.7 | 20.3 | 4.7 | 1.5 | 2.58 | 1.27 | 95.28 |
| 10 | Vein or Fracture | 48.5 | 0.9 | 11 | 20.6 | 4.4 | 1.5 | 2.46 | 0.96 | 90.32 |
| 11 | Vein or Fracture | 46.6 | 0.89 | 9.9 | 18.5 | 4.3 | 9.4 | 1.93 | 1.15 | 92.67 |
| 12 | Vein or Fracture | 43.2 | 0.77 | 8.9 | 15.2 | 3.8 | 14.7 | 1.47 | 0.64 | 88.68 |
| 13 | Vein or Fracture | 45.6 | 0.69 | 9 | 11.9 | 3.2 | 17.2 | 1.36 | 0.82 | 89.77 |
| 14 | Vein or Fracture | 47.9 | 0.89 | 10.7 | 22 | 4 | 1.5 | 2.37 | 1.15 | 90.51 |
| 15 | Vein or Fracture | 45.5 | 0.75 | 7.9 | 14.4 | 3.8 | 14.4 | 1.34 | 0.75 | 88.84 |
| 16 | Bedrock | 50 | 0.82 | 10.5 | 15.4 | 4.2 | 8.8 | 2.19 | 1.08 | 92.99 |
| 17 | Bedrock | 58.3 | 1.03 | 14.5 | 17 | 5.2 | 1.9 | 2.82 | 1.71 | 102.46 |
| 18 | Bedrock | 48.1 | 0.97 | 9.9 | 21.8 | 3.8 | 1.2 | 2.19 | 0.95 | 88.91 |
| 19 | Bedrock | 57.5 | 0.9 | 13.8 | 15.5 | 6.6 | 2.6 | 2.77 | 1.58 | 101.25 |
| 20 | Bedrock | 53.7 | 0.93 | 12.3 | 21.7 | | | | | |

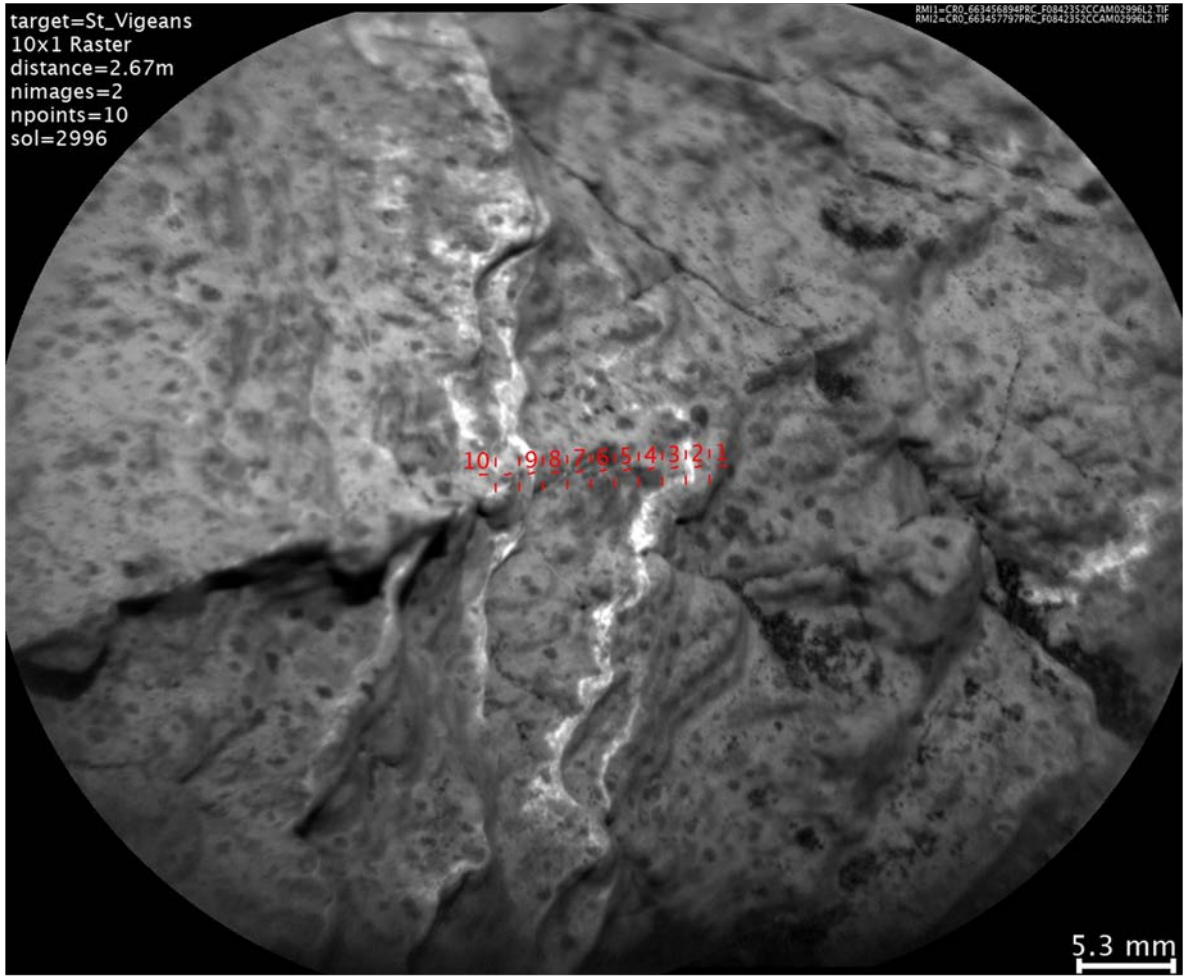


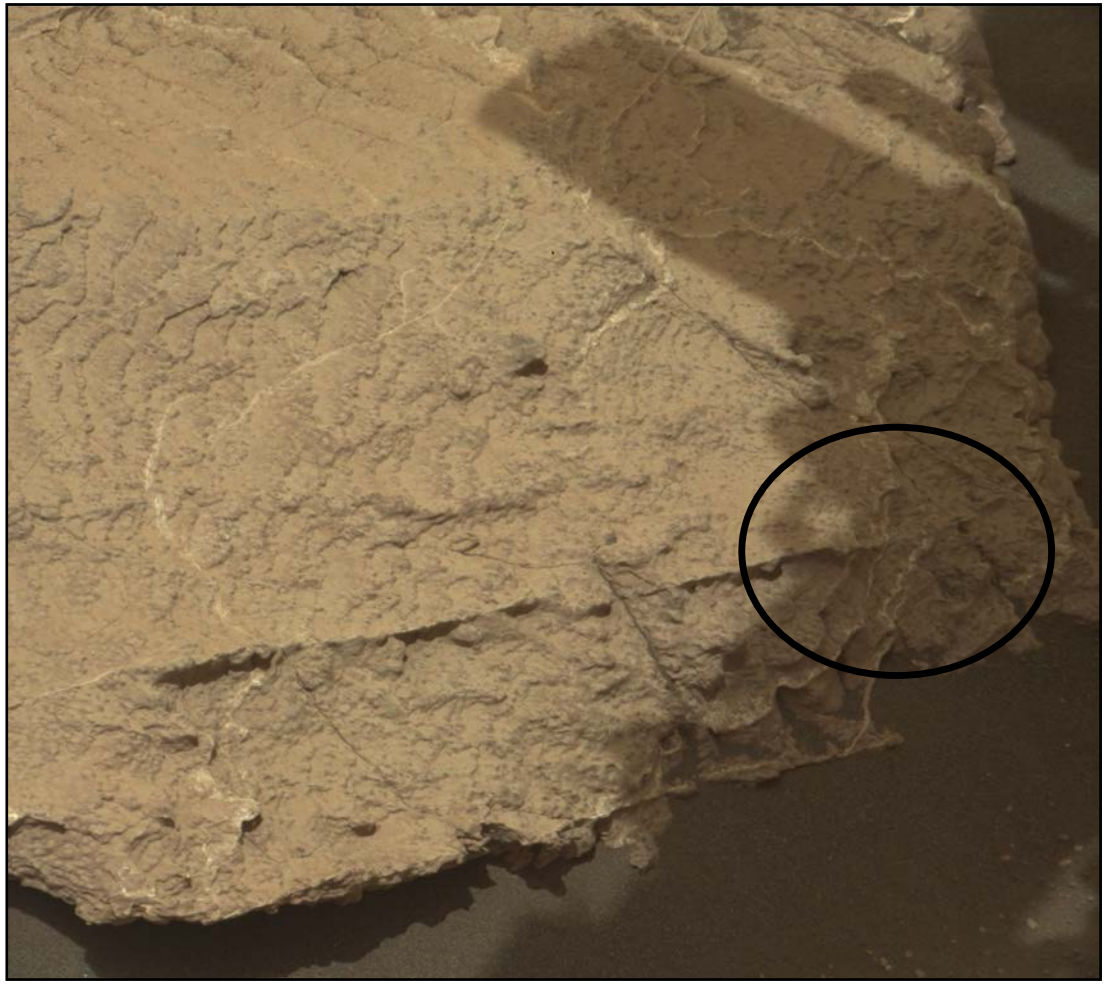
# Target: St_Vigeans

**Sol:** 2996
**Elev (m.):** -4081.75093566171
**CCAM Sequence ID:** CCAM02996

**Whole Target Classification:** Bedrock
**Lamination Strength:** Moderately Laminated
**Lamination Expression:** Primary Stratification
**Grain Visibility:** Below RMI Image Resolution
**Bedrock Appearance:** Dull
**Nodule Presence:** Common (~30% by Visual Inspection
**Nodule Diameter:** Small (<1 mm)
**Nodule Resistance:** Protruding
**Fracture Presence:** Occasional (<10% by Visual Inspection)

| # | Feature | SiO2 (wt%) | TiO2 (wt%) | Al2O3 (wt%) | FeOT (wt%) | MgO (wt%) | CaO (wt%) | Na2O (wt%) | K2O (wt%) | Sum of Oxides (wt%) |
|---|---|---|---|---|---|---|---|---|---|---|
| 1 | Bedrock | 52.2 | 0.89 | 12.1 | 17.8 | 6.4 | 4.5 | 2.45 | 1.32 | 97.66 |
| 2 | Vein or Fracture | 39.6 | 0.7 | 7.6 | 12.7 | 3.3 | 18.6 | 1.16 | 0.58 | 84.24 |
| 3 | Vein or Fracture | 43.1 | 0.82 | 9.6 | 15 | 4.3 | 14.5 | 1.55 | 0.62 | 89.49 |
| 4 | Bedrock | 48.7 | 1.06 | 9.8 | 19.4 | 5.7 | 1.4 | 2.34 | 1.05 | 89.45 |
| 5 | Bedrock | 52.6 | 0.91 | 11.4 | 18.8 | 7.8 | 2.1 | 2.12 | 0.72 | 96.45 |
| 6 | Nodule | 53.1 | 0.87 | 10.2 | 21 | 6.6 | 1.4 | 2.54 | 1.49 | 97.2 |
| 7 | Bedrock | 44.6 | 0.75 | 9.4 | 18.3 | 5.7 | 8.9 | 1.99 | 0.86 | 90.5 |
| 8 | Bedrock | 54.1 | 1.05 | 12.3 | 17.9 | 7.8 | 1.9 | 2.97 | 1.53 | 99.55 |
| 9 | Vein or Fracture | 49.3 | 0.83 | 9.6 | 18.4 | 6.7 | 5.9 | 1.97 | 1.01 | 93.71 |
| 10 | Vein or Fracture | 45.3 | 0.74 | 8.7 | 14.9 | 3.9 | 13.7 | 1.57 | 0.93 | 89.74 |



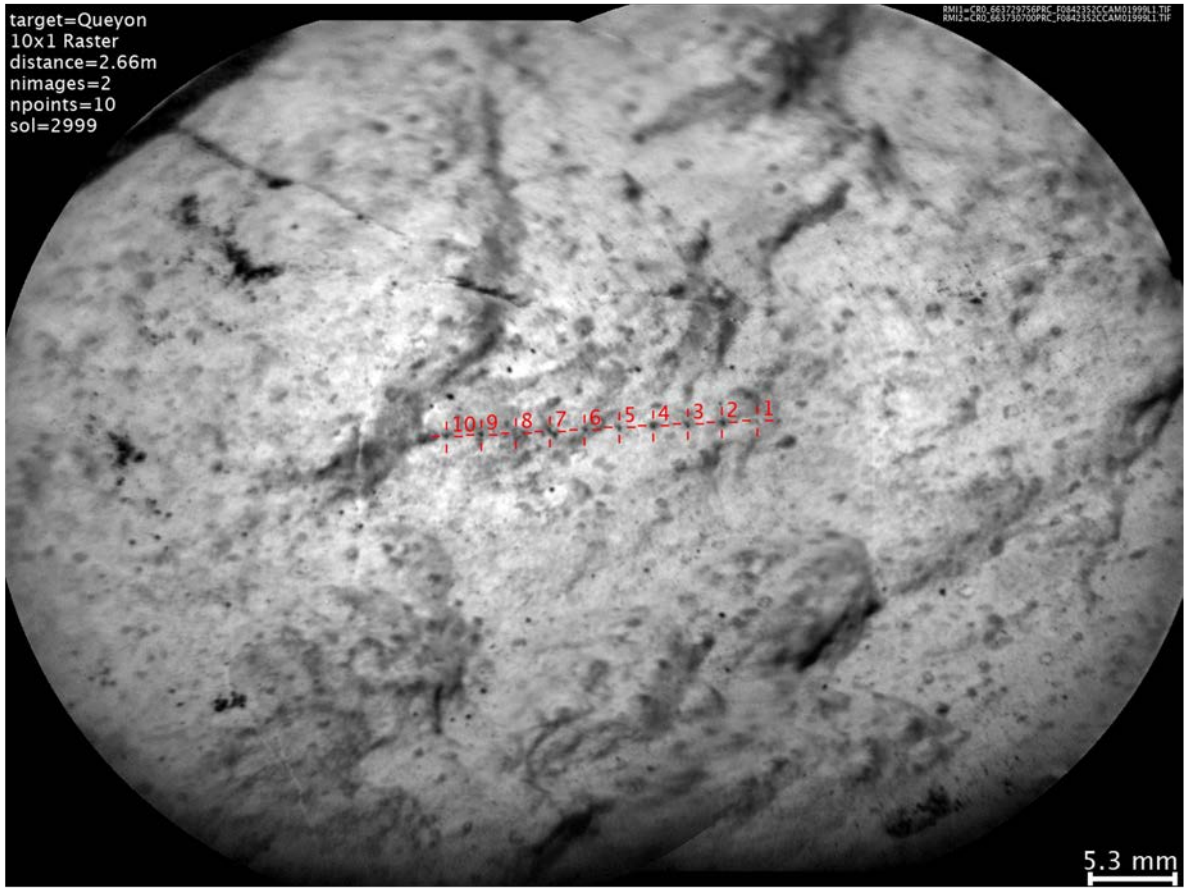



# Target: Queyon

**Sol:** 2999
**Elev (m.):** -4081.84226458704
**CCAM Sequence ID:** CCAM01999

**Whole Target Classification:** Bedrock
**Lamination Strength:** Weakly Laminated
**Lamination Expression:** Primary Stratification
**Grain Visibility:** Below RMI Image Resolution
**Bedrock Appearance:** Dull
**Nodule Presence:** Common (~30% by Visual Inspection)
**Nodule Diameter:** Small (<1 mm)
**Nodule Resistance:** Recessed
**Fracture Presence:** Occasional (<10% by Visual Inspection)

| # | Feature | SiO2 (wt%) | TiO2 (wt%) | Al2O3 (wt%) | FeOT (wt%) | MgO (wt%) | CaO (wt%) | Na2O (wt%) | K2O (wt%) | Sum of Oxides (wt%) |
|---|---|---|---|---|---|---|---|---|---|---|
| 1 | Bedrock | 53.9 | 0.86 | 10.2 | 15.9 | 7.1 | 3.5 | 2.21 | 1.32 | 94.99 |
| 2 | Bedrock | 53.6 | 1.09 | 11.7 | 18.2 | 6.4 | 1.9 | 2.72 | 1.54 | 97.15 |
| 3 | Bedrock | 55.3 | 0.92 | 12.4 | 18.5 | 6.3 | 1.6 | 2.61 | 1.43 | 99.06 |
| 4 | Bedrock | 53.8 | 0.99 | 11.6 | 19.7 | 5.7 | 1.7 | 2.57 | 1.34 | 97.4 |
| 5 | Bedrock | 56 | 1.04 | 12.3 | 17.6 | 5.9 | 1.9 | 2.73 | 1.48 | 98.95 |
| 6 | Bedrock | 53.3 | 0.9 | 12.4 | 17.2 | 6.7 | 3.6 | 2.72 | 1.67 | 98.49 |
| 7 | Bedrock | 55.9 | 0.89 | 11 | 18.3 | 5.8 | 1.5 | 2.56 | 1.67 | 97.62 |
| 8 | Bedrock | 47.8 | 0.88 | 10.3 | 18.3 | 4.8 | 7.5 | 2.08 | 1.03 | 92.69 |
| 9 | Bedrock | 54.3 | 0.98 | 12.1 | 19 | 5.9 | 1.7 | 2.68 | 1.28 | 97.94 |
| 10 | Bedrock | 55.1 | 0.91 | 12.2 | 17.4 | 6.5 | 1.7 | 2.82 | 1.51 | 98.14 |

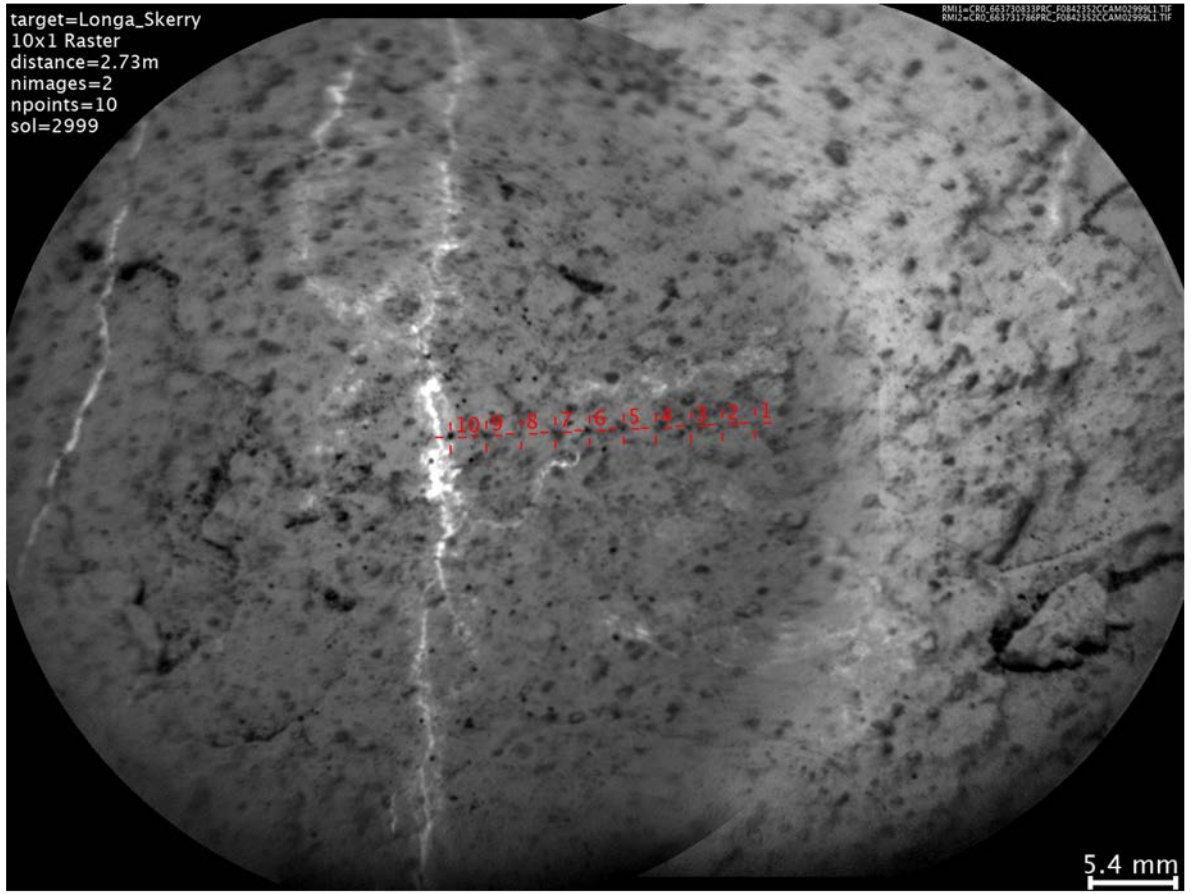


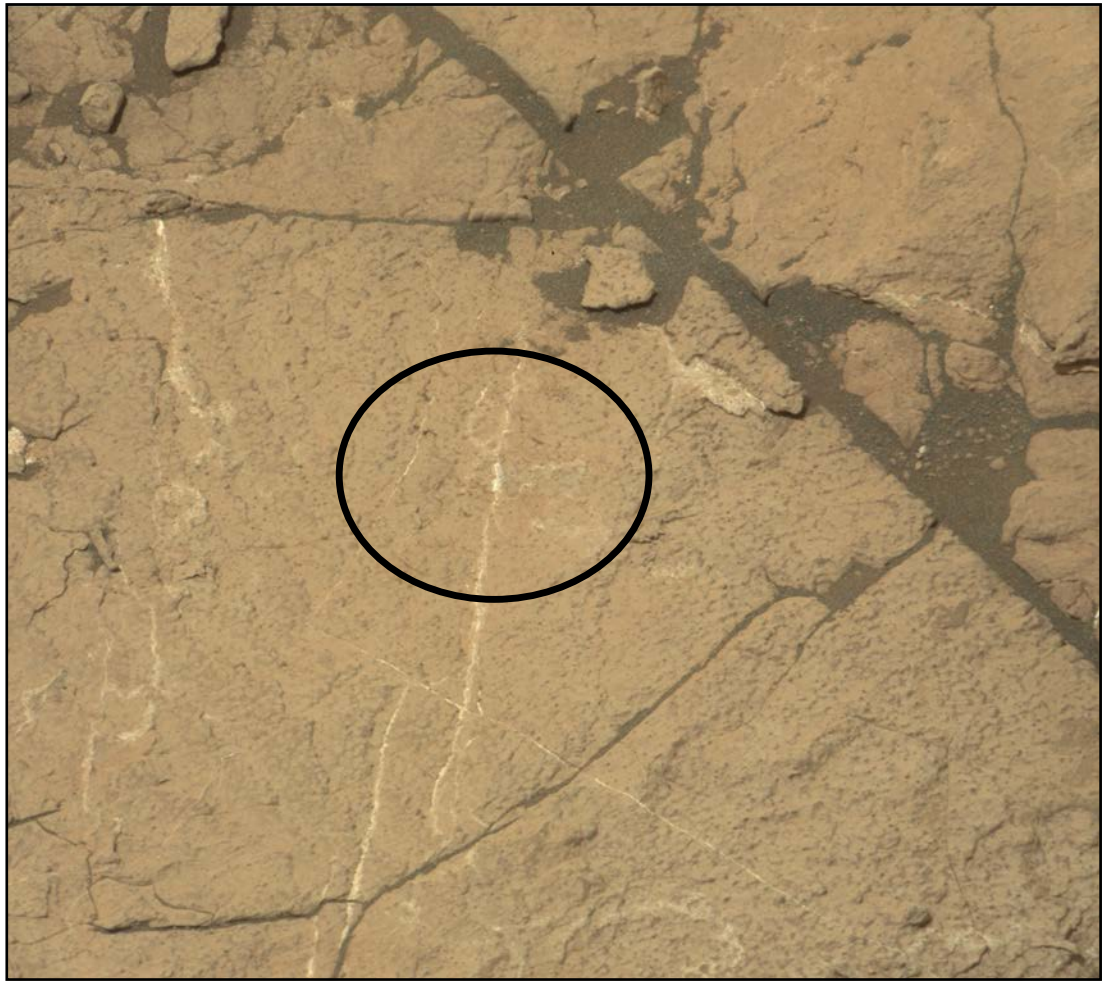
# Target: Longa_Skerry

**Sol:** 2999
**Elev (m.):** -4081.8862443747
**CCAM Sequence ID:** CCAM02999

**Whole Target Classification:** Bedrock
**Lamination Strength:** Absent
**Lamination Expression:** Absent
**Grain Visibility:** Unclear
**Bedrock Appearance:** Dull
**Nodule Presence:** Common (~30% by Visual Inspection
**Nodule Diameter:** Small (<1 mm)
**Nodule Resistance:** Unclear
**Fracture Presence:** Common (~10-20% by Visual Inspection)

| # | Feature | SiO2 (wt%) | TiO2 (wt%) | Al2O3 (wt%) | FeOT (wt%) | MgO (wt%) | CaO (wt%) | Na2O (wt%) | K2O (wt%) | Sum of Oxides (wt%) |
|---|---|---|---|---|---|---|---|---|---|---|
| 1 | Bedrock | 58.4 | 0.9 | 12.8 | 15.7 | 6 | 1.9 | 2.85 | 1.54 | 100.09 |
| 2 | Bedrock | 58.7 | 0.94 | 13.2 | 16 | 5.5 | 1.8 | 2.88 | 1.66 | 100.68 |
| 3 | Bedrock | 55.9 | 1.04 | 14 | 18.4 | 5.6 | 2.1 | 2.74 | 1.31 | 101.09 |
| 4 | Bedrock | 56.3 | 0.95 | 12.8 | 18.1 | 5.7 | 2.3 | 2.9 | 1.5 | 100.55 |
| 5 | Bedrock | 56.1 | 0.91 | 11.9 | 18 | 5.6 | 1.8 | 2.79 | 1.48 | 98.58 |
| 6 | Bedrock | 53.9 | 1.08 | 12.3 | 19.1 | 4.9 | 2 | 2.94 | 1.62 | 97.84 |
| 7 | Bedrock | 56.9 | 1.21 | 11 | 17.3 | 6.7 | 1.9 | 2.56 | 1.57 | 99.14 |
| 8 | Bedrock | 55.8 | 0.97 | 13.2 | 17.6 | 5.7 | 2.1 | 2.69 | 1.32 | 99.38 |
| 9 | Bedrock | 54.2 | 0.97 | 12.4 | 19.6 | 5.5 | 2 | 2.73 | 1.17 | 98.57 |
| 10 | Vein or Fracture | 41.2 | 0.82 | 8.6 | 28.1 | 3.2 | 5.5 | 1.71 | 0.48 | 89.61 |



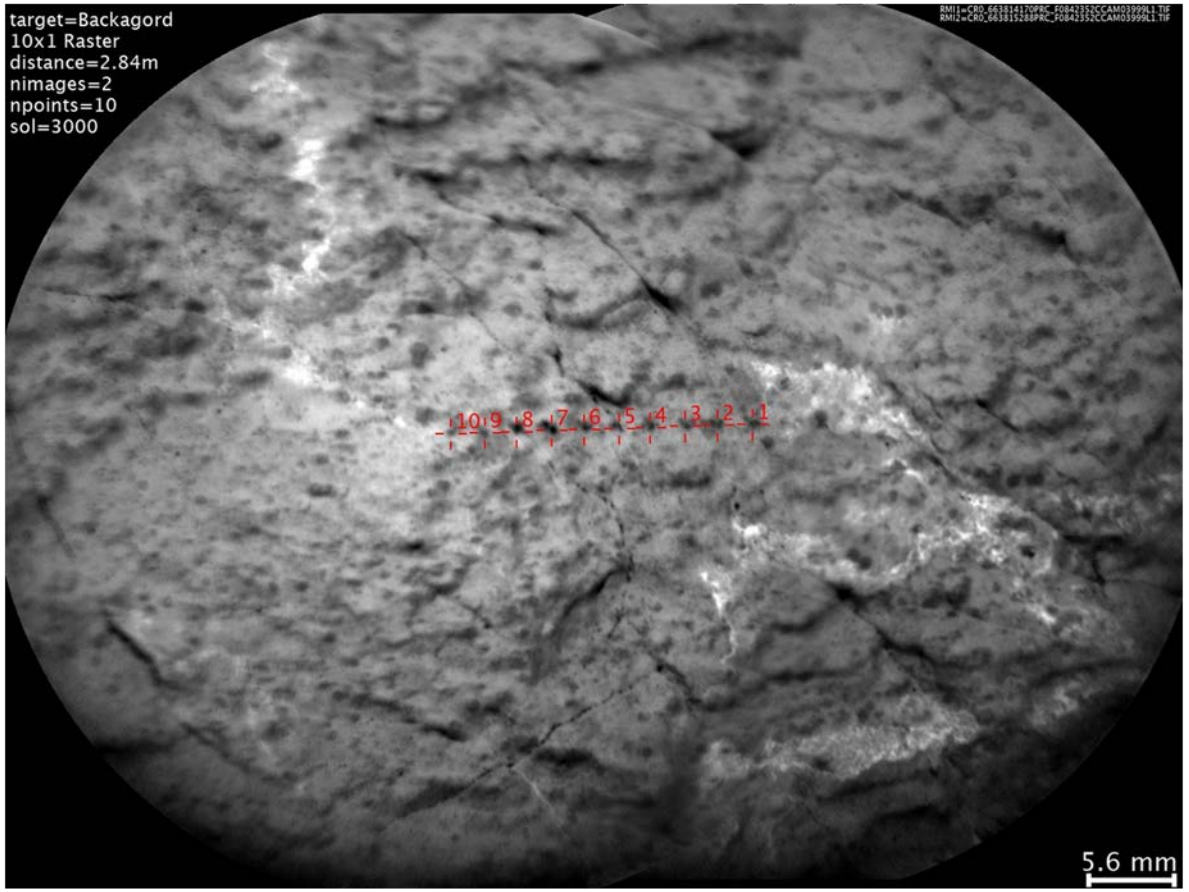



# Target: Backagord

**Sol:** 2999
**Elev (m.):** -4081.80034379288
**CCAM Sequence ID:** CCAM03999

**Whole Target Classification:** Bedrock
**Lamination Strength:** Moderately Laminated
**Lamination Expression:** Primary Stratification
**Grain Visibility:** Below RMI Image Resolution
**Bedrock Appearance:** Dull
**Nodule Presence:** Common (~30% by Visual Inspection
**Nodule Diameter:** Small (<1 mm)
**Nodule Resistance:** Protruding
**Fracture Presence:** Common (~10-20% by Visual Inspection)

| # | Feature | SiO2 (wt%) | TiO2 (wt%) | Al2O3 (wt%) | FeOT (wt%) | MgO (wt%) | CaO (wt%) | Na2O (wt%) | K2O (wt%) | Sum of Oxides (wt%) |
|---|---|---|---|---|---|---|---|---|---|---|
| 1 | Bedrock | 49.3 | 0.93 | 11.7 | 19.7 | 4.3 | 5.6 | 2.5 | 1.19 | 95.22 |
| 2 | Nodule | 52.8 | 0.99 | 11.9 | 18.9 | 5.9 | 2.5 | 2.66 | 1.36 | 97.01 |
| 3 | Nodule | 54.7 | 0.93 | 11.6 | 20.4 | 5.7 | 1.4 | 2.64 | 1.52 | 98.89 |
| 4 | Bedrock | 54.8 | 0.99 | 12.6 | 19.8 | 5.4 | 1.6 | 2.85 | 1.59 | 99.63 |
| 5 | Bedrock | 50.6 | 0.8 | 11.6 | 19.1 | 7 | 2.3 | 2.55 | 1.11 | 95.06 |
| 6 | Bedrock | 52.1 | 0.97 | 11.4 | 20.9 | 4.9 | 1.5 | 2.6 | 1.28 | 95.65 |
| 7 | Bedrock | 50.5 | 1.01 | 11.9 | 19.6 | 4.7 | 1.4 | 2.65 | 1.31 | 93.07 |
| 8 | Vein or Fracture | 51.2 | 0.97 | 11 | 21.7 | 5 | 2.8 | 2.48 | 1.13 | 96.28 |
| 9 | Vein or Fracture | 42.8 | 0.85 | 9.5 | 19.5 | 4.2 | 8.8 | 2.17 | 1.11 | 88.93 |
| 10 | Vein or Fracture | 44.3 | 0.85 | 9.6 | 16.3 | 4.2 | 11.8 | 1.85 | 0.88 | 89.78 |



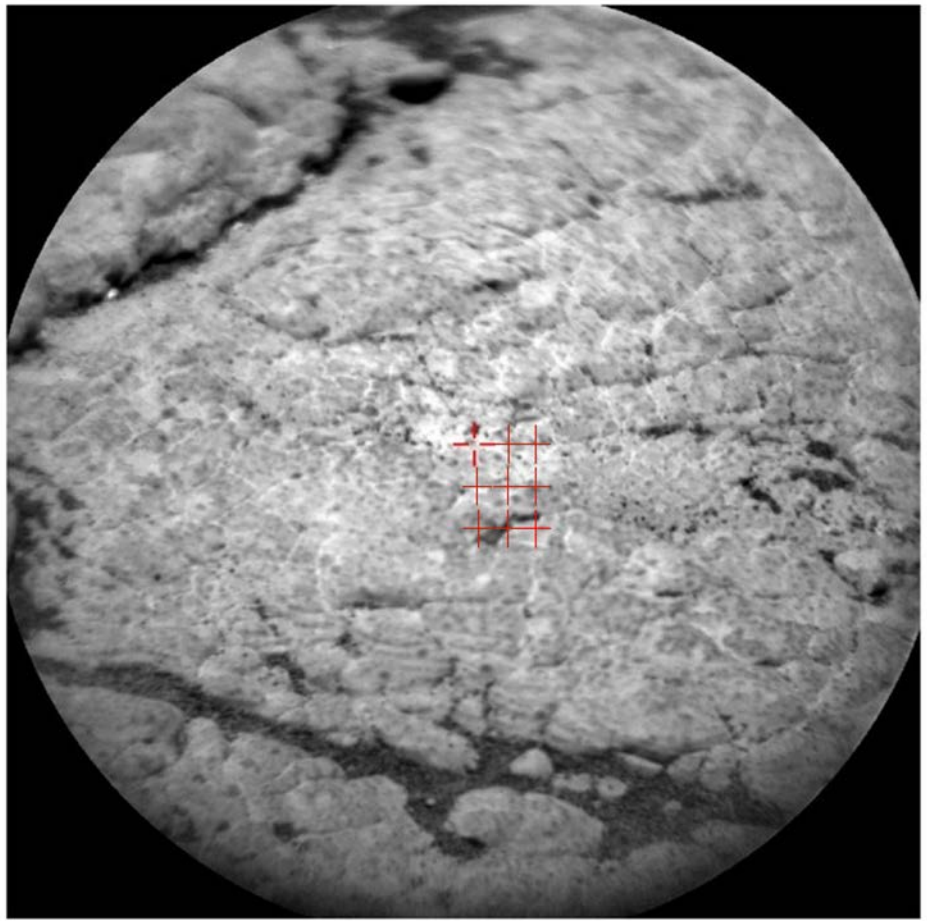
# Target: aegis_post_3001a

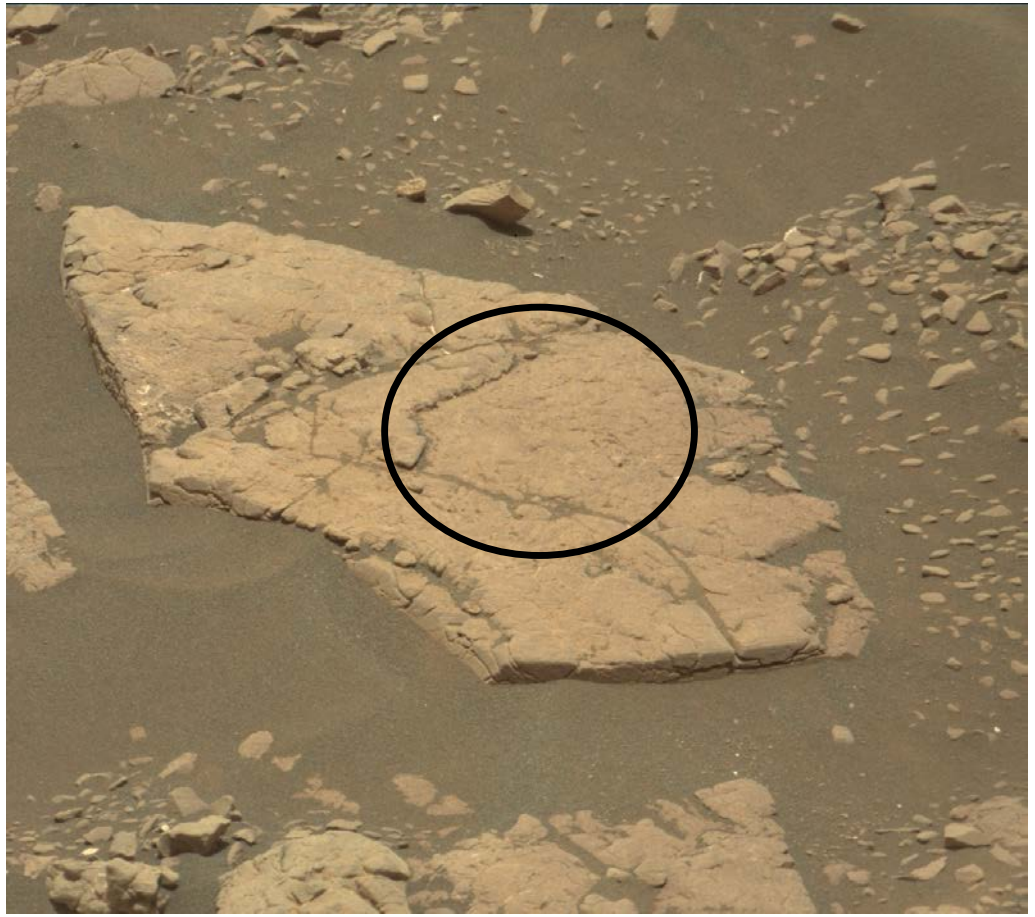
**Sol:** 3001
**Elev (m.):** -4086.932113

**CCAM Sequence ID:** CCAM01001

**Whole Target Classification:** Bedrock
**Lamination Strength:** Weakly Laminated
**Lamination Expression:** Primary Stratification
**Grain Visibility:** Below RMI Image Resolution
**Bedrock Appearance:** Dull
**Nodule Presence:** Common (~30% by Visual Inspection)
**Nodule Diameter:** Small (<1 mm)
**Nodule Resistance:** Protruding
**Fracture Presence:** Pervasive (>20% by Visual Inspection)

| # | Feature | SiO2 (wt%) | TiO2 (wt%) | Al2O3 (wt%) | FeOT (wt%) | MgO (wt%) | CaO (wt%) | Na2O (wt%) | K2O (wt%) | Sum of Oxides (wt%) |
|---|---|---|---|---|---|---|---|---|---|---|
| 1 | Bedrock | 58.6 | 0.96 | 14.4 | 17.2 | 5.1 | 2.8 | 3 | 2.06 | 104.12 |
| 2 | Sand | 55.9 | 0.94 | 12.8 | 18.3 | 5.9 | 1.5 | 2.76 | 1.81 | 99.91 |
| 3 | Bedrock | 56.7 | 1.12 | 13.9 | 19.9 | 4.7 | 1.6 | 3.26 | 2.17 | 103.35 |
| 4 | Bedrock | 56.8 | 0.89 | 13.6 | 20.6 | 4.8 | 1.3 | 3.26 | 2.32 | 103.57 |
| 5 | Bedrock | 57.1 | 0.94 | 14 | 19.2 | 5.1 | 1.7 | 2.97 | 1.78 | 102.79 |
| 6 | Vein or Fracture | 47.5 | 0.79 | 11.2 | 16.1 | 7.4 | 9.5 | 2.1 | 0.57 | 95.16 |
| 7 | Bedrock | 59.4 | 0.95 | 14.5 | 18.1 | 5.3 | 1.4 | 3.53 | 2.58 | 105.76 |
| 8 | Bedrock | 50.3 | 0.88 | 10.7 | 21.4 | 3.5 | 1.1 | 3.42 | 1.97 | 93.27 |
| 9 | Bedrock | 56.8 | 0.94 | 16.6 | 19.4 | 4.6 | 1.9 | 3.53 | 2.25 | 106.02 |





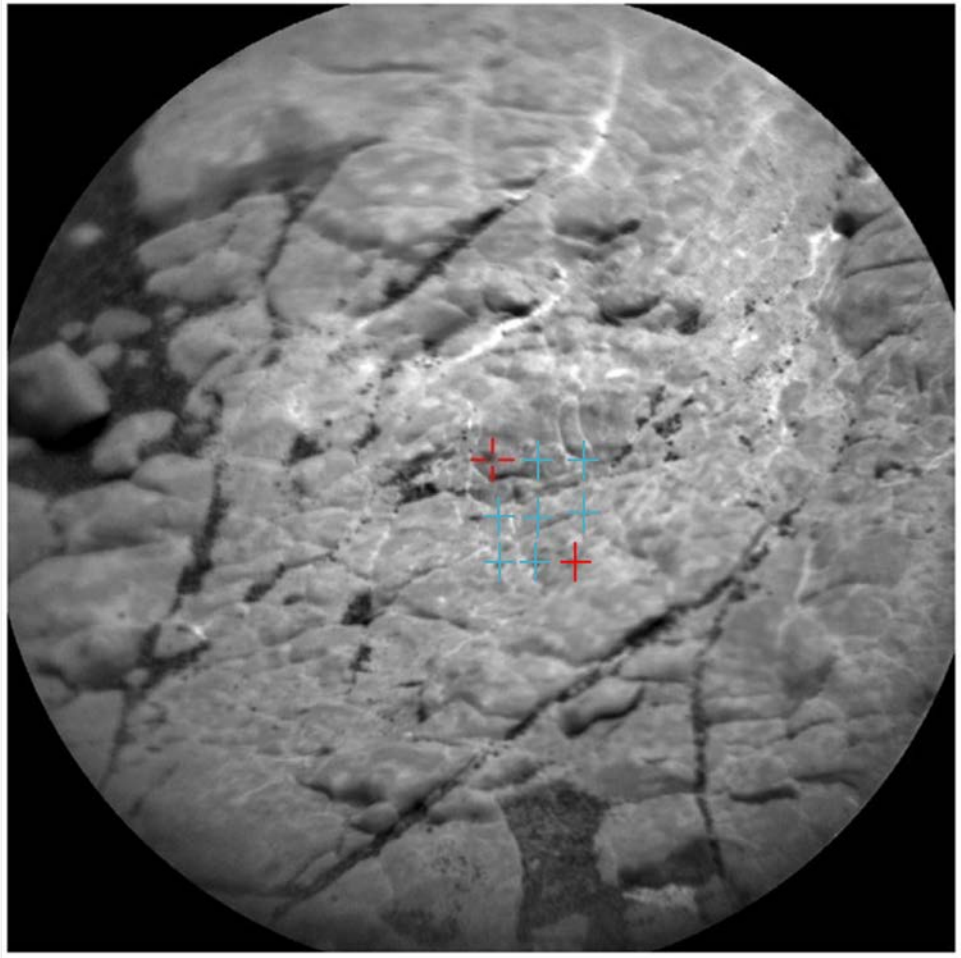
# Target: aegis_post_3001b

**Sol:** 3001
**Elev (m.):** -4086.988627

**CCAM Sequence ID:** CCAM01001

**Whole Target Classification:** Bedrock
**Lamination Strength:** Moderately Laminated
**Lamination Expression:** Primary Stratification
**Grain Visibility:** Below RMI Image Resolution
**Bedrock Appearance:** Dull
**Nodule Presence:** Occasional (~10% by Visual Inspection)
**Nodule Diameter:** Small (<1 mm)
**Nodule Resistance:** Recessed
**Fracture Presence:** Pervasive (>20% by Visual Inspection)

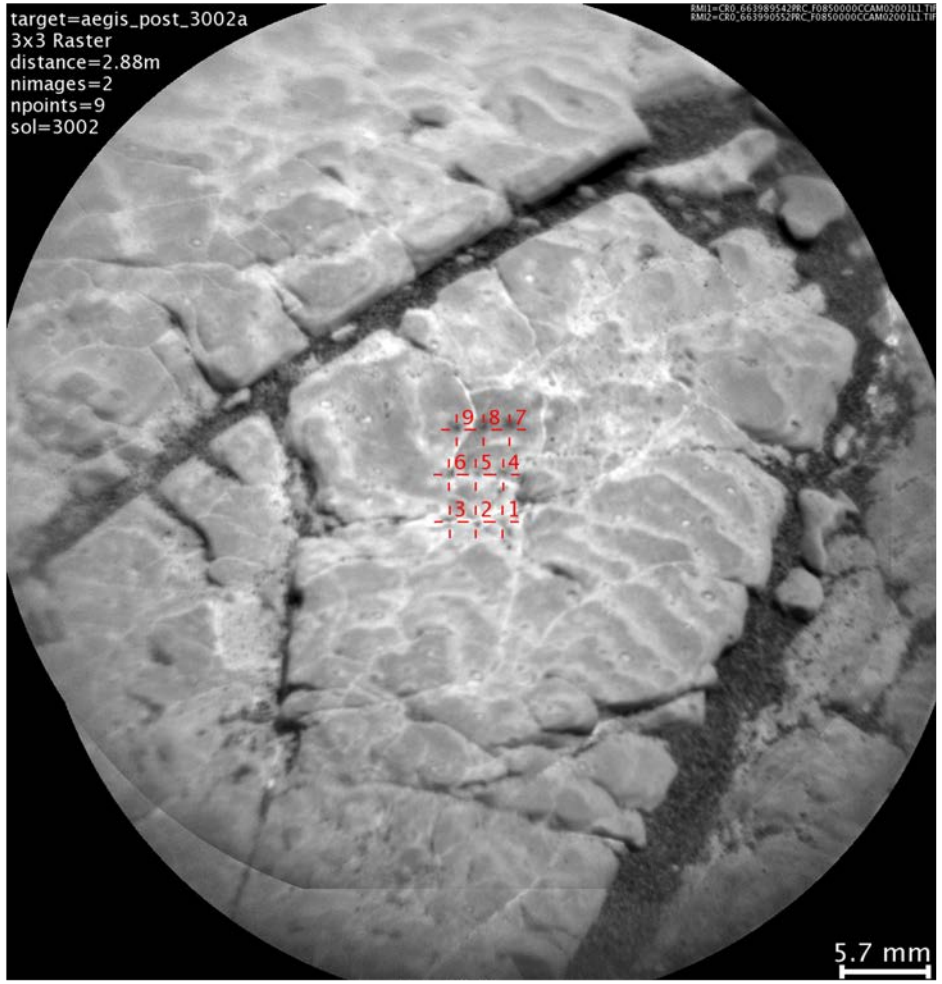
| # | Feature | SiO2 (wt%) | TiO2 (wt%) | Al2O3 (wt%) | FeOT (wt%) | MgO (wt%) | CaO (wt%) | Na2O (wt%) | K2O (wt%) | Sum of Oxides (wt%) |
|---|---|---|---|---|---|---|---|---|---|---|
| 1 | Bedrock | 53.2 | 1.02 | 11.3 | 19.5 | 4.4 | 1.5 | 2.64 | 1.42 | 94.98 |
| 2 | Bedrock | 53.7 | 0.91 | 11.6 | 21.1 | 7 | 1.5 | 2.71 | 1.48 | 100 |
| 3 | Bedrock | 58 | 0.89 | 13.3 | 18.6 | 5.7 | 1.6 | 2.99 | 1.94 | 103.02 |
| 4 | Bedrock | 56.3 | 1.06 | 14.2 | 19 | 6.3 | 2 | 2.38 | 1.28 | 102.52 |
| 5 | Bedrock | 51.9 | 0.9 | 11.9 | 20.7 | 5.5 | 1.4 | 2.67 | 1.36 | 96.33 |
| 6 | Bedrock | 54.5 | 0.97 | 13.5 | 22 | 4.9 | 1.4 | 2.75 | 1.61 | 101.63 |
| 7 | Bedrock | 55.9 | 0.89 | 11.3 | 20.1 | 6.5 | 1.2 | 2.85 | 2.11 | 100.85 |
| 8 | Bedrock | 57.4 | 1.08 | 15.6 | 19.6 | 6 | 1.9 | 3.04 | 1.64 | 106.26 |
| 9 | Nodule | 54 | 1.21 | 12.1 | 22.1 | 5.4 | 1.7 | 2.83 | 1.72 | 101.06 |



# Target: aegis_post_3002a

**Sol:** 3001
**Elev (m.):** -4087.167397
**CCAM Sequence ID:** CCAM02001

**Whole Target Classification:** Bedrock
**Lamination Strength:** Weakly Laminated
**Lamination Expression:** Primary Stratification
**Grain Visibility:** Below RMI Image Resolution
**Bedrock Appearance:** Dull
**Nodule Presence:** Occasional (~10% by Visual Inspection)
**Nodule Diameter:** Small (<1 mm)
**Nodule Resistance:** Protruding
**Fracture Presence:** Pervasive (>20% by Visual Inspection)

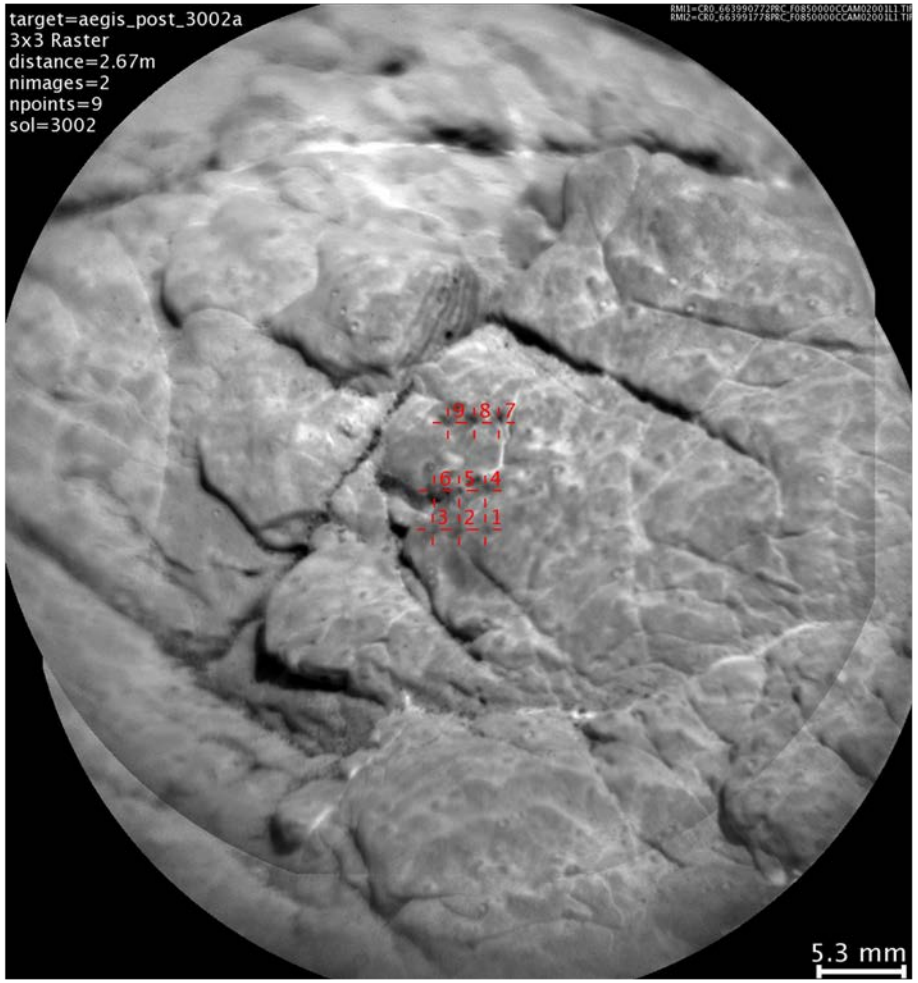



| # | Feature | SiO2 (wt%) | TiO2 (wt%) | Al2O3 (wt%) | FeOT (wt%) | MgO (wt%) | CaO (wt%) | Na2O (wt%) | K2O (wt%) | Sum of Oxides (wt%) |
|---|---|---|---|---|---|---|---|---|---|---|
| 1 | Bedrock | 57.1 | 1.06 | 12.5 | 19.1 | 5.8 | 1.8 | 2.45 | 1.25 | 101.06 |
| 2 | Vein or Fracture | 44.2 | 0.81 | 10.1 | 16.8 | 3.4 | 11.9 | 1.69 | 0.81 | 89.71 |
| 3 | Vein or Fracture | 37.9 | 0.66 | 7.8 | 13.5 | 2.8 | 18.7 | 1.23 | 0.55 | 83.14 |
| 4 | Bedrock | 53.6 | 0.96 | 12.3 | 20.2 | 6 | 1.5 | 2.8 | 1.47 | 98.83 |
| 5 | Bedrock | 56.1 | 1.02 | 13.4 | 19.5 | 5.6 | 1.5 | 2.97 | 1.84 | 101.93 |
| 6 | Bedrock | 52.2 | 1.02 | 12.2 | 20.9 | 5.8 | 1.7 | 2.51 | 1.09 | 97.42 |
| 7 | Bedrock | 52.8 | 0.94 | 12.1 | 20.5 | 6.2 | 1.2 | 2.84 | 1.69 | 98.27 |
| 8 | Bedrock | 52.8 | 0.99 | 11.4 | 21.7 | 5.6 | 1.3 | 2.74 | 1.6 | 98.13 |
| 9 | Bedrock | 53.8 | 1.01 | 10.8 | 20.2 | 5.7 | 1.6 | 2.64 | 1.44 | 97.19 |

# Target: aegis_post_3002b

**Sol:** 3001
**Elev (m.):** -4087.123612
**CCAM Sequence ID:** CCAM02001

**Whole Target Classification:** Bedrock
**Lamination Strength:** Weakly Laminated
**Lamination Expression:** Primary Stratification
**Grain Visibility:** Below RMI Image Resolution
**Bedrock Appearance:** Dull
**Nodule Presence:** Occasional (~10% by Visual Inspection)
**Nodule Diameter:** Small (<1 mm)
**Nodule Resistance:** Protruding
**Fracture Presence:** Pervasive (>20% by Visual Inspection)




| # | Feature | SiO2 (wt%) | TiO2 (wt%) | Al2O3 (wt%) | FeOT (wt%) | MgO (wt%) | CaO (wt%) | Na2O (wt%) | K2O (wt%) | Sum of Oxides (wt%) |
|---|---|---|---|---|---|---|---|---|---|---|
| 1 | Bedrock | 52.9 | 0.99 | 10.1 | 19.9 | 7 | 1.3 | 2.58 | 1.42 | 96.19 |
| 2 | Bedrock | 54 | 1.14 | 11.2 | 20.5 | 6 | 1.4 | 2.77 | 1.47 | 98.48 |
| 3 | Bedrock | 54.6 | 0.97 | 10.4 | 19.6 | 6 | 1.5 | 2.52 | 1.24 | 96.83 |
| 4 | Bedrock | 53.2 | 0.93 | 11.2 | 18.5 | 8.1 | 1.4 | 2.58 | 1.44 | 97.35 |
| 5 | Bedrock | 52.2 | 0.98 | 11 | 20.3 | 8.6 | 1.5 | 2.87 | 1.36 | 98.81 |
| 6 | Nodule | 51.8 | 0.96 | 10.8 | 22.5 | 5.9 | 1.3 | 2.72 | 1.44 | 97.42 |
| 7 | Vein or Fracture | 49.6 | 0.93 | 10.5 | 21.6 | 5 | 4.3 | 2.3 | 1.29 | 95.52 |
| 8 | Bedrock | 53.1 | 0.92 | 10.5 | 20.2 | 6.2 | 1.5 | 2.63 | 1.35 | 96.4 |
| 9 | Bedrock | 55.8 | 1.06 | 12 | 20 | 5.7 | 1.8 | 2.72 | 1.44 | 100.52 |

**Sol:** 3003

# Target: Tomb_of_the_Eagles_ccam **Elev (m.):** -4087.1138573082

**CCAM Sequence ID:** CCAM01003

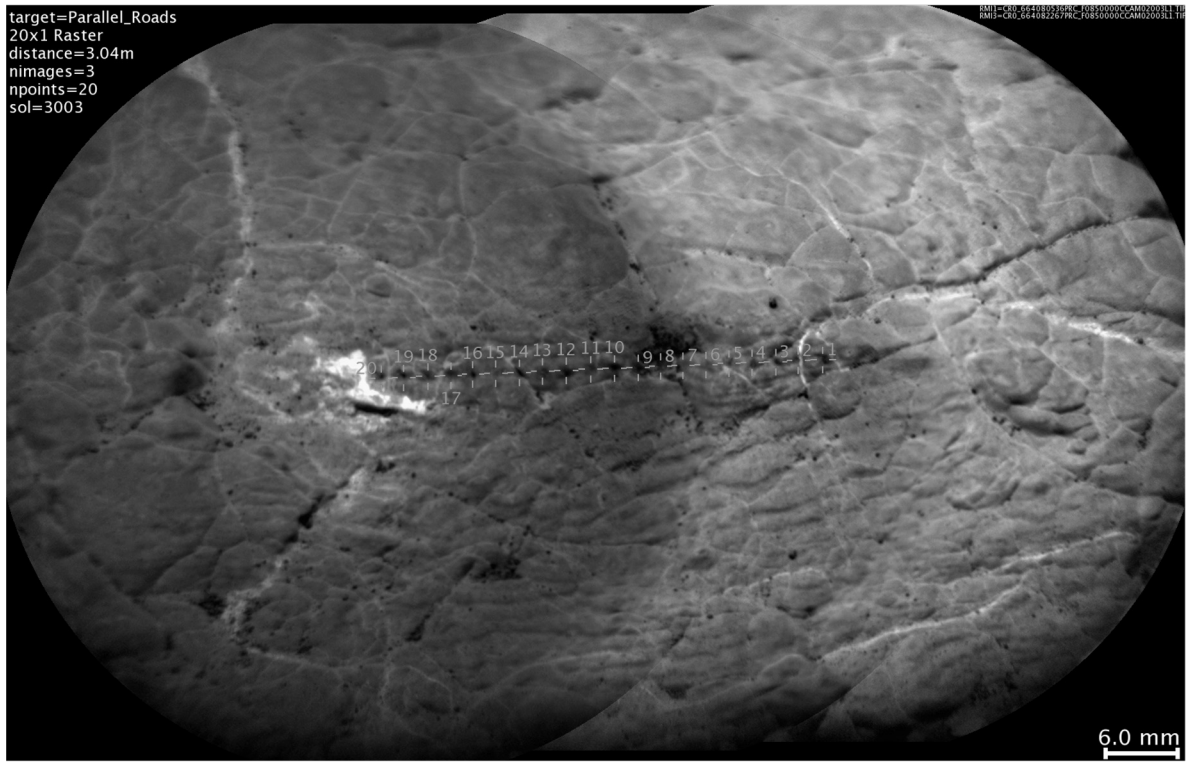
**Whole Target Classification:** Bedrock
**Lamination Strength:** Weakly Laminated
**Lamination Expression:** Primary Stratification
**Grain Visibility:** Below RMI Image Resolution
**Bedrock Appearance:** Shiny
**Nodule Presence:** Common (~30% by Visual Inspection)
**Nodule Diameter:** Unclear
**Nodule Resistance:** Protruding
**Fracture Presence:** Occasional (<10% by Visual Inspection)

| # | Feature | SiO2 (wt%) | TiO2 (wt%) | Al2O3 (wt%) | FeOT (wt%) | MgO (wt%) | CaO (wt%) | Na2O (wt%) | K2O (wt%) | Sum of Oxides (wt%) |
|---|---|---|---|---|---|---|---|---|---|---|
| 1 | Vein or Fracture | 39.3 | 0.68 | 8.7 | 18.1 | 15.2 | 5.8 | 1.7 | 0.44 | 89.92 |
| 2 | Bedrock | 54.4 | 0.94 | 10.4 | 18.2 | 5.8 | 1.7 | 2.77 | 1.56 | 95.77 |
| 3 | Bedrock | 55.5 | 0.93 | 12.8 | 16.6 | 6.2 | 1.6 | 3.13 | 1.34 | 98.1 |
| 4 | Bedrock | 54.8 | 0.93 | 11 | 17.9 | 5.4 | 2.7 | 2.31 | 1.18 | 96.22 |
| 5 | Nodule | 47.8 | 0.86 | 9.4 | 25 | 4.6 | 1.6 | 2.48 | 1.09 | 92.83 |
| 6 | Nodule | 56.8 | 0.96 | 12.1 | 16.8 | 6 | 2 | 2.32 | 0.86 | 97.84 |
| 7 | Bedrock | 57.6 | 0.86 | 11.8 | 15.1 | 6.2 | 1.6 | 2.91 | 1.39 | 97.46 |
| 8 | Bedrock | 55.1 | 0.86 | 11.8 | 15.2 | 6.1 | 2.9 | 2.1 | 1 | 95.06 |
| 9 | Bedrock | 55.7 | 0.94 | 10.7 | 17.7 | 5.9 | 1.7 | 2.51 | 1.09 | 96.24 |
| 10 | Bedrock | 56.3 | 0.89 | 11.3 | 17.8 | 5.7 | 1.6 | 2.64 | 1.25 | 97.48 |

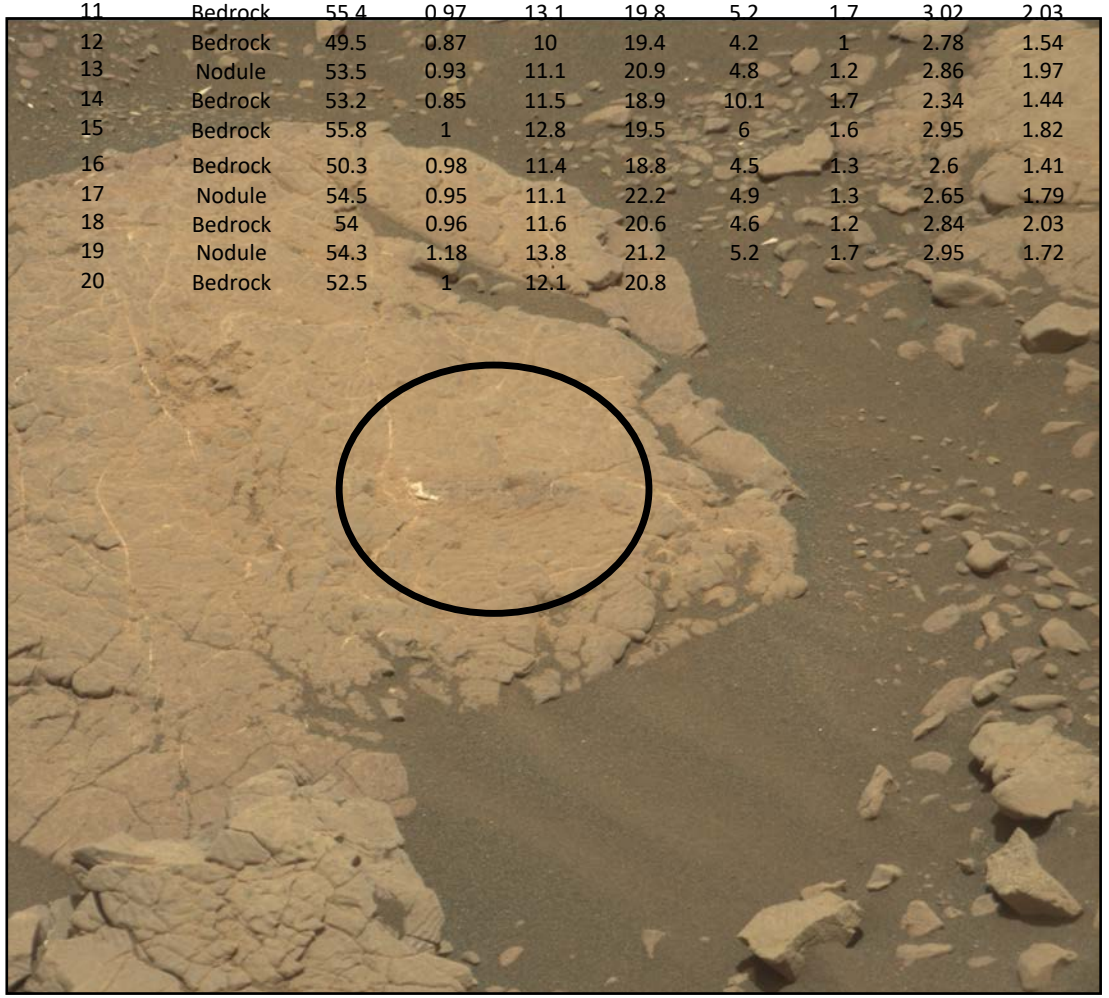
# Target: Parallel_Roads

**Sol:** 3003
**Elev (m.):** -4086.93894015268
**CCAM Sequence ID:** CCAM02003

**Whole Target Classification:** Bedrock
**Lamination Strength:** Weakly Laminated
**Lamination Expression:** Primary Stratification
**Grain Visibility:** Below RMI Image Resolution
**Bedrock Appearance:** Dull
**Nodule Presence:** Common (~30% by Visual Inspection
**Nodule Diameter:** Unclear
**Nodule Resistance:** Protruding
**Fracture Presence:** Pervasive (>20% by Visual Inspection)



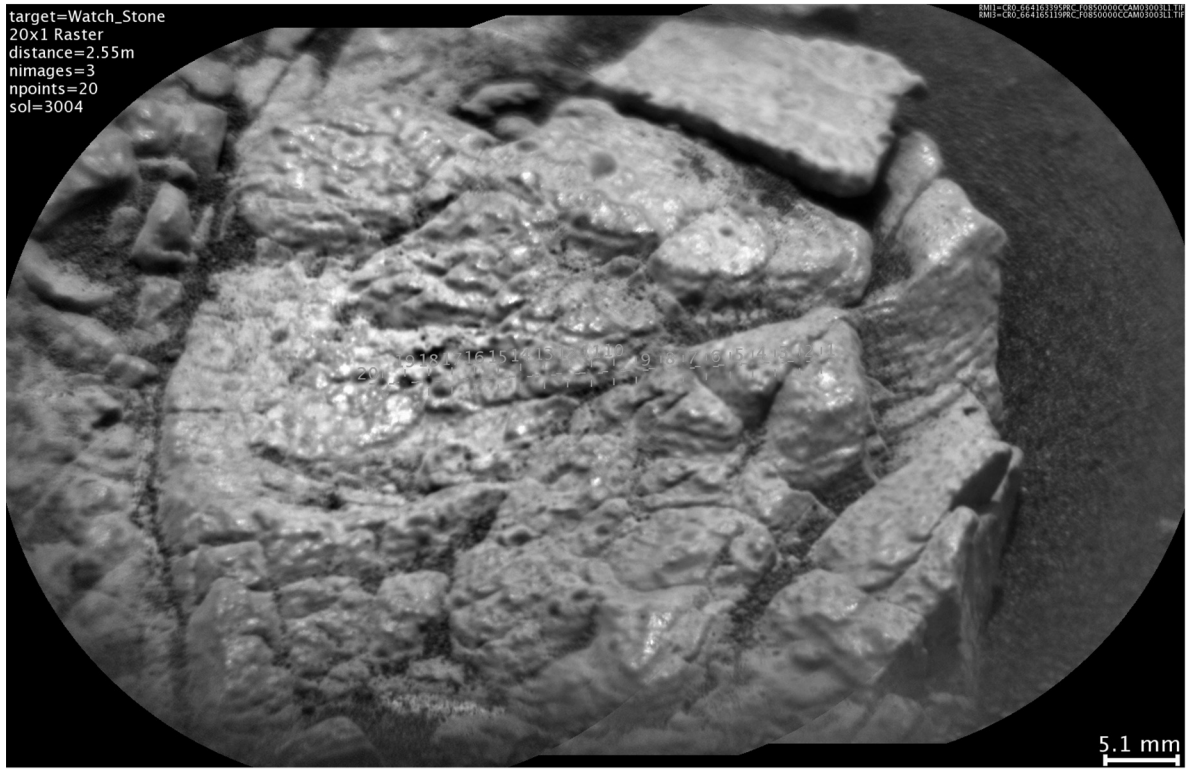

| # | Feature | SiO2 (wt%) | TiO2 (wt%) | Al2O3 (wt%) | FeOT (wt%) | MgO (wt%) | CaO (wt%) | Na2O (wt%) | K2O (wt%) | Sum of Oxides (wt%) |
|---|---|---|---|---|---|---|---|---|---|---|
| 1 | Bedrock | 52.4 | 1.04 | 11.2 | 20 | 5.1 | 1.1 | 2.74 | 1.85 | 95.43 |
| 2 | Vein or Fracture | 47.3 | 0.86 | 10.7 | 17 | 4.2 | 9 | 1.9 | 1.22 | 92.18 |
| 3 | Bedrock | 56.4 | 1 | 12.7 | 20.5 | 5.1 | 1.4 | 2.89 | 2.28 | 102.27 |
| 4 | Bedrock | 52.9 | 0.95 | 11.4 | 20 | 4.8 | 1.1 | 2.72 | 1.91 | 95.78 |
| 5 | Bedrock | 53.4 | 0.96 | 11.1 | 21.7 | 5.4 | 1.1 | 2.59 | 1.78 | 98.03 |
| 6 | Bedrock | 53.7 | 0.95 | 11.5 | 18.9 | 4.5 | 1.1 | 2.7 | 2.01 | 95.36 |
| 7 | Bedrock | 54.5 | 0.99 | 12.8 | 21.7 | 5.3 | 1.4 | 2.55 | 1.51 | 100.75 |
| 8 | Vein or Fracture | 46.4 | 1 | 9.3 | 20.1 | 6.3 | 4.8 | 1.78 | 0.49 | 90.17 |
| 9 | Bedrock | 54.6 | 1.14 | 11.2 | 20.1 | 6 | 1.5 | 2.55 | 1.78 | 98.87 |
| 10 | Bedrock | 53.2 | 1.05 | 12.3 | 22 | 5 | 1.4 | 2.78 | 1.91 | 99.64 |
| 11 | Bedrock | 55.4 | 0.97 | 13.1 | 19.8 | 5.2 | 1.7 | 3.02 | 2.03 | 101.22 |
| 12 | Bedrock | 49.5 | 0.87 | 10 | 19.4 | 4.2 | 1 | 2.78 | 1.54 | 89.29 |
| 13 | Nodule | 53.5 | 0.93 | 11.1 | 20.9 | 4.8 | 1.2 | 2.86 | 1.97 | 97.26 |
| 14 | Bedrock | 53.2 | 0.85 | 11.5 | 18.9 | 10.1 | 1.7 | 2.34 | 1.44 | 100.03 |
| 15 | Bedrock | 55.8 | 1 | 12.8 | 19.5 | 6 | 1.6 | 2.95 | 1.82 | 101.47 |
| 16 | Bedrock | 50.3 | 0.98 | 11.4 | 18.8 | 4.5 | 1.3 | 2.6 | 1.41 | 91.29 |
| 17 | Nodule | 54.5 | 0.95 | 11.1 | 22.2 | 4.9 | 1.3 | 2.65 | 1.79 | 99.39 |
| 18 | Bedrock | 54 | 0.96 | 11.6 | 20.6 | 4.6 | 1.2 | 2.84 | 2.03 | 97.83 |
| 19 | Nodule | 54.3 | 1.18 | 13.8 | 21.2 | 5.2 | 1.7 | 2.95 | 1.72 | 102.05 |
| 20 | Bedrock | 52.5 | 1 | 12.1 | 20.8 | | | | | |



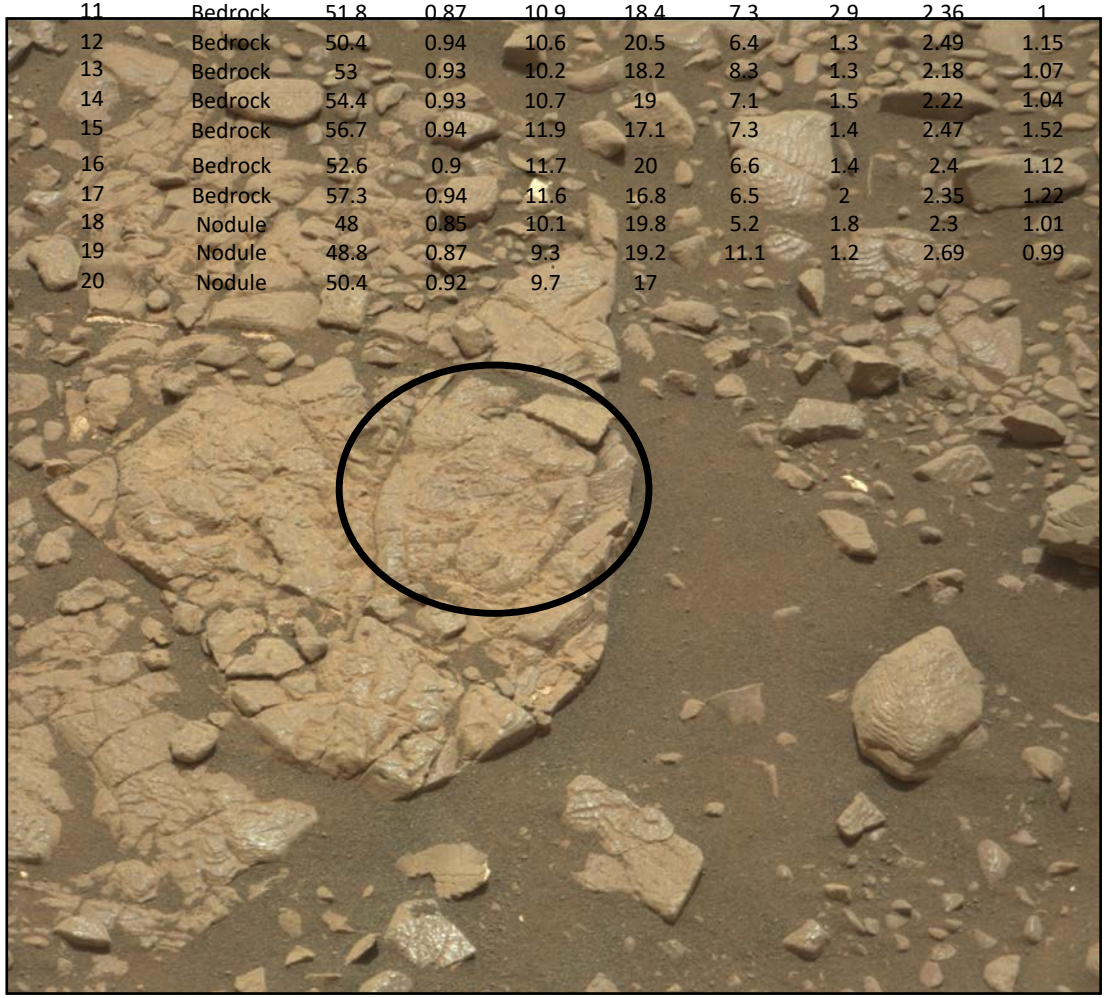
# Target: Watch_Stone

**Sol:** 3003
**Elev (m.):** -4087.00344653546
**CCAM Sequence ID:** CCAM03003

**Whole Target Classification:** Bedrock
**Lamination Strength:** Weakly Laminated
**Lamination Expression:** Primary Stratification
**Grain Visibility:** Below RMI Image Resolution
**Bedrock Appearance:** Shiny
**Nodule Presence:** Pervasive (>50% by Visual Inspection)
**Nodule Diameter:** Small (<1 mm)
**Nodule Resistance:** Protruding
**Fracture Presence:** Occasional (<10% by Visual Inspection)




| # | Feature | SiO2 (wt%) | TiO2 (wt%) | Al2O3 (wt%) | FeOT (wt%) | MgO (wt%) | CaO (wt%) | Na2O (wt%) | K2O (wt%) | Sum of Oxides (wt%) |
|---|---|---|---|---|---|---|---|---|---|---|
| 1 | Bedrock | 51.4 | 0.88 | 9.8 | 18.9 | 4.5 | 1.2 | 2.66 | 1.31 | 90.65 |
| 2 | Bedrock | 54.4 | 0.89 | 10.4 | 18 | 7.1 | 1.3 | 2.48 | 1.46 | 96.03 |
| 3 | Bedrock | 57.4 | 0.98 | 11.4 | 16.9 | 6.7 | 1.6 | 2.51 | 1.6 | 99.09 |
| 4 | Nodule | 50.3 | 0.94 | 9.8 | 19.6 | 9.3 | 1.1 | 2.54 | 1.27 | 94.85 |
| 5 | Bedrock | 57.5 | 0.96 | 10.8 | 17.6 | 6.2 | 1.4 | 2.37 | 1.37 | 98.2 |
| 6 | Nodule | 51.5 | 0.95 | 9.3 | 21.2 | 5.8 | 1.1 | 2.36 | 1.33 | 93.54 |
| 7 | Bedrock | 56.3 | 0.87 | 12.2 | 17.5 | 6 | 1.5 | 2.59 | 1.36 | 98.32 |
| 8 | Bedrock | 56 | 1.06 | 10.9 | 18.3 | 7.8 | 1.7 | 2.17 | 0.78 | 98.71 |
| 9 | Bedrock | 56.2 | 0.96 | 11.7 | 17.5 | 7 | 1.8 | 2.44 | 1.59 | 99.19 |
| 10 | Bedrock | 53.4 | 0.97 | 9.7 | 19.1 | 6.3 | 1.2 | 2.57 | 1.31 | 94.55 |
| 11 | Bedrock | 51.8 | 0.87 | 10.9 | 18.4 | 7.3 | 2.9 | 2.36 | 1 | 95.53 |
| 12 | Bedrock | 50.4 | 0.94 | 10.6 | 20.5 | 6.4 | 1.3 | 2.49 | 1.15 | 93.78 |
| 13 | Bedrock | 53 | 0.93 | 10.2 | 18.2 | 8.3 | 1.3 | 2.18 | 1.07 | 95.18 |
| 14 | Bedrock | 54.4 | 0.93 | 10.7 | 19 | 7.1 | 1.5 | 2.22 | 1.04 | 96.89 |
| 15 | Bedrock | 56.7 | 0.94 | 11.9 | 17.1 | 7.3 | 1.4 | 2.47 | 1.52 | 99.33 |
| 16 | Bedrock | 52.6 | 0.9 | 11.7 | 20 | 6.6 | 1.4 | 2.4 | 1.12 | 96.72 |
| 17 | Bedrock | 57.3 | 0.94 | 11.6 | 16.8 | 6.5 | 2 | 2.35 | 1.22 | 98.71 |
| 18 | Nodule | 48 | 0.85 | 10.1 | 19.8 | 5.2 | 1.8 | 2.3 | 1.01 | 89.06 |
| 19 | Nodule | 48.8 | 0.87 | 9.3 | 19.2 | 11.1 | 1.2 | 2.69 | 0.99 | 94.15 |
| 20 | Nodule | 50.4 | 0.92 | 9.7 | 17 | | | | | |



# Target: Geocrab

**Sol:** 3003
**Elev (m.):** -4087.02399341882
**CCAM Sequence ID:** CCAM04003

**Whole Target Classification:** Bedrock
**Lamination Strength:** Weakly Laminated
**Lamination Expression:** Primary Stratification
**Grain Visibility:** Below RMI Image Resolution
**Bedrock Appearance:** Shiny
**Nodule Presence:** Occasional (~10% by Visual Inspection)
**Nodule Diameter:** Medium (1 - 3 mm)
**Nodule Resistance:** Protruding
**Fracture Presence:** Occasional (<10% by Visual Inspection)

| # | Feature | SiO2 (wt%) | TiO2 (wt%) | Al2O3 (wt%) | FeOT (wt%) | MgO (wt%) | CaO (wt%) | Na2O (wt%) | K2O (wt%) | Sum of Oxides (wt%) |
|---|---|---|---|---|---|---|---|---|---|---|
| 1 | Bedrock | 53.8 | 1.01 | 11.9 | 19.4 | 6.1 | 1.5 | 2.43 | 1.46 | 97.6 |
| 2 | Bedrock | 54 | 1.04 | 11.3 | 20.7 | 5.6 | 1.7 | 2.59 | 1.7 | 98.63 |
| 3 | Bedrock | 54.6 | 0.96 | 11.9 | 19.2 | 5.5 | 1.4 | 2.79 | 1.76 | 98.11 |
| 4 | Bedrock | 52.2 | 0.94 | 10 | 21.4 | 5.2 | 1.6 | 2.65 | 1.43 | 95.42 |
| 5 | Bedrock | 54.1 | 0.96 | 11.8 | 20.3 | 5.3 | 1.5 | 2.59 | 1.75 | 98.3 |
| 6 | Sand | 52.4 | 1.04 | 11.7 | 21 | 5.5 | 2 | 2.52 | 1.46 | 97.62 |
| 7 | Vein or Fracture | 33.3 | 0.64 | 6.5 | 11.5 | 2.5 | 24.9 | 0.74 | 0.31 | 80.39 |
| 8 | Bedrock | 55.8 | 1.02 | 11.8 | 19.5 | 5.4 | 1.7 | 3.04 | 1.98 | 100.24 |
| 9 | Bedrock | 52.8 | 0.98 | 11.4 | 21.6 | 5.1 | 2.6 | 2.28 | 1.96 | 98.72 |
| 10 | Bedrock | 54.9 | 0.96 | 11.7 | 17.8 | 6.4 | 1.7 | 2.56 | 1.43 | 97.45 |

# Target: Easthouses_ccam

**Sol:** 3007
**Elev (m.):** -4085.30874608051
**CCAM Sequence ID:** CCAM01007

**Whole Target Classification:** Bedrock
**Lamination Strength:** Absent
**Lamination Expression:** Absent
**Grain Visibility:** Below RMI Image Resolution
**Bedrock Appearance:** Dull
**Nodule Presence:** Common (~30% by Visual Inspection
**Nodule Diameter:** Small (<1 mm)
**Nodule Resistance:** Protruding
**Fracture Presence:** Common (~10-20% by Visual Inspection)

| # | Feature | SiO2 (wt%) | TiO2 (wt%) | Al2O3 (wt%) | FeOT (wt%) | MgO (wt%) | CaO (wt%) | Na2O (wt%) | K2O (wt%) | Sum of Oxides (wt%) |
|---|---|---|---|---|---|---|---|---|---|---|
| 1 | Bedrock | 54.6 | 0.99 | 11.9 | 19.6 | 5.4 | 1.4 | 2.71 | 1.87 | 98.47 |
| 2 | Nodule | 47.3 | 0.95 | 8.6 | 21.4 | 3.7 | 1 | 2.24 | 1.09 | 86.28 |
| 3 | Bedrock | 54.3 | 1.03 | 9.3 | 19.3 | 5.5 | 1.1 | 2.29 | 1.43 | 94.25 |
| 4 | Nodule | 48.9 | 0.85 | 8.7 | 21 | 4.3 | 1 | 2.6 | 1.58 | 88.93 |
| 5 | Bedrock | 57 | 0.97 | 12.9 | 18.4 | 5.2 | 2.7 | 2.99 | 2.1 | 102.26 |
| 6 | Bedrock | 57.5 | 0.92 | 12.3 | 16.5 | 6 | 1.8 | 2.7 | 1.58 | 99.3 |
| 7 | Bedrock | 56.5 | 1.04 | 12.8 | 18.5 | 5.9 | 1.6 | 2.68 | 1.67 | 100.69 |
| 8 | Nodule | 54.5 | 1.01 | 11.8 | 19.8 | 5.8 | 1.4 | 2.31 | 1.11 | 97.73 |
| 9 | Nodule | 44.6 | 0.85 | 8.8 | 26.5 | 3.5 | 1.4 | 2.26 | 1.12 | 89.03 |
| 10 | Nodule | 47 | 0.9 | 9.5 | 19.9 | 4.3 | 1.3 | 2.34 | 1.24 | 86.48 |

# Target: Jarlshof

**Sol:** 3007
**Elev (m.):** -4085.36422806916
**CCAM Sequence ID:** CCAM02007

**Whole Target Classification:** Bedrock
**Lamination Strength:** Absent
**Lamination Expression:** Absent
**Grain Visibility:** Unclear
**Bedrock Appearance:** Shiny
**Nodule Presence:** Pervasive (>50% by Visual Inspection)
**Nodule Diameter:** Small (<1 mm)
**Nodule Resistance:** Protruding
**Fracture Presence:** Common (~10-20% by Visual Inspection)

| # | Feature | SiO2 (wt%) | TiO2 (wt%) | Al2O3 (wt%) | FeOT (wt%) | MgO (wt%) | CaO (wt%) | Na2O (wt%) | K2O (wt%) | Sum of Oxides (wt%) |
|---|---|---|---|---|---|---|---|---|---|---|
| 1 | Bedrock | 56 | 0.95 | 12.6 | 18.6 | 6.3 | 1.6 | 2.9 | 1.99 | 100.94 |
| 2 | Bedrock | 53 | 1.16 | 11.6 | 20.5 | 6.3 | 1.5 | 2.82 | 1.8 | 98.68 |
| 3 | Bedrock | 52.8 | 0.89 | 10.4 | 18.6 | 7.5 | 1.3 | 2.54 | 1.47 | 95.5 |
| 4 | Bedrock | 50.5 | 0.96 | 10.5 | 19.7 | 6.2 | 1.3 | 2.49 | 1.55 | 93.2 |
| 5 | Nodule | 46.3 | 0.91 | 9 | 22.9 | 3.9 | 0.9 | 2.39 | 1.25 | 87.55 |
| 6 | Nodule | 55.4 | 1.08 | 12.5 | 20 | 6.3 | 1.5 | 2.74 | 1.92 | 101.44 |
| 7 | Nodule | 54.7 | 1.23 | 11.4 | 21 | 5.8 | 1.7 | 2.13 | 1.22 | 99.18 |
| 8 | Bedrock | 55.3 | 1.03 | 12.7 | 18.5 | 5.8 | 2.6 | 2.27 | 1.24 | 99.44 |
| 9 | Bedrock | 55.4 | 1.03 | 11.5 | 19.1 | 5.2 | 2.2 | 2.84 | 2.03 | 99.3 |
| 10 | Bedrock | 57.4 | 0.97 | 13.5 | 17.1 | 5.4 | 1.6 | 3.23 | 2.39 | 101.59 |

# Target: Saxa_Vord_Spaceport

**Sol:** 3007
**Elev (m.):** -4085.01838411641
**CCAM Sequence ID:** CCAM03007

**Whole Target Classification:** Bedrock
**Lamination Strength:** Absent
**Lamination Expression:** Absent
**Grain Visibility:** Below RMI Image Resolution
**Bedrock Appearance:** Dull
**Nodule Presence:** Pervasive (>50% by Visual Inspection)
**Nodule Diameter:** Small (<1 mm)
**Nodule Resistance:** Protruding
**Fracture Presence:** Pervasive (>20% by Visual Inspection)

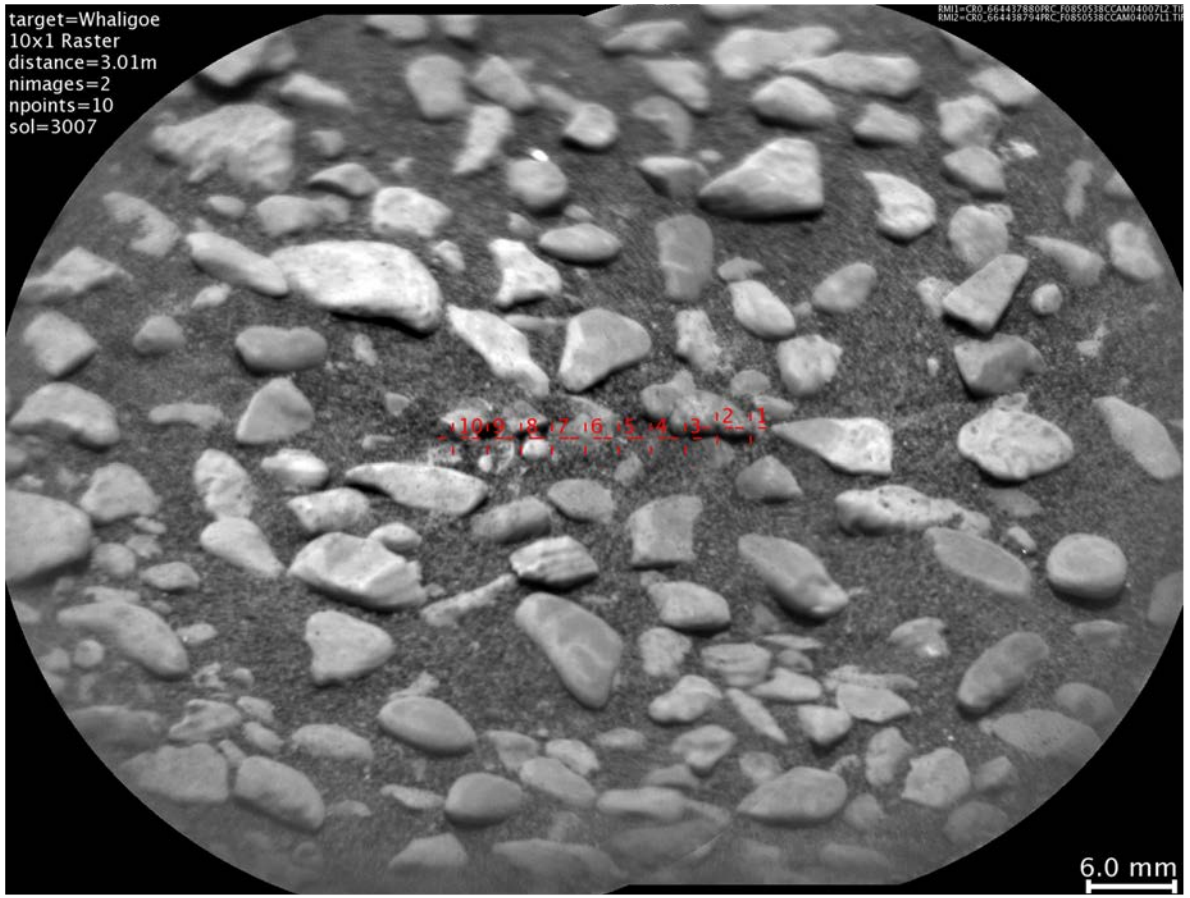
| # | Feature | SiO2 (wt%) | TiO2 (wt%) | Al2O3 (wt%) | FeOT (wt%) | MgO (wt%) | CaO (wt%) | Na2O (wt%) | K2O (wt%) | Sum of Oxides (wt%) |
|---|---|---|---|---|---|---|---|---|---|---|
| 1 | Nodule | 43.1 | 0.93 | 8.5 | 24.7 | 6.9 | 1 | 2.16 | 0.77 | 88.06 |
| 2 | Bedrock | 55.1 | 0.94 | 13.2 | 18.3 | 6.8 | 1.4 | 2.77 | 1.61 | 100.12 |
| 3 | Bedrock | 56.4 | 1.09 | 14.6 | 16.9 | 6.8 | 1.8 | 2.87 | 1.55 | 102.01 |
| 4 | Sand | 48.3 | 0.96 | 10.8 | 20.5 | 4.9 | 1.3 | 2.6 | 1.04 | 90.4 |
| 5 | Sand | 52.8 | 1.04 | 12 | 19.1 | 7 | 2.4 | 2.46 | 1 | 97.8 |
| 6 | Bedrock | 56.2 | 0.93 | 12 | 17 | 6.6 | 1.4 | 2.82 | 1.69 | 98.64 |
| 7 | Bedrock | 54.7 | 0.99 | 11.7 | 18.7 | 7.2 | 1.2 | 2.79 | 1.9 | 99.18 |
| 8 | Nodule | 50.8 | 0.94 | 10.6 | 21.4 | 6.9 | 1.1 | 2.6 | 1.47 | 95.81 |
| 9 | Bedrock | 55.6 | 0.99 | 12.2 | 19.8 | 6.5 | 1.5 | 2.92 | 1.77 | 101.28 |
| 10 | Bedrock | 54.2 | 0.95 | 12 | 18.8 | 7.2 | 1.6 | 2.55 | 1.28 | 98.58 |

# Target: Whaligoe

**Sol:** 3007
**Elev (m.):** -4085.43512506129
**CCAM Sequence ID:** CCAM04007

**Whole Target Classification:** Unconsolidated (Sand/Soil/Pebbles)
**Lamination Strength:** Absent
**Lamination Expression:** Absent
**Grain Visibility:** Unclear
**Bedrock Appearance:** Dull
**Nodule Presence:** Absent
**Nodule Diameter:** Absent
**Nodule Resistance:** Absent
**Fracture Presence:** Absent

| # | Feature | SiO2 (wt%) | TiO2 (wt%) | Al2O3 (wt%) | FeOT (wt%) | MgO (wt%) | CaO (wt%) | Na2O (wt%) | K2O (wt%) | Sum of Oxides (wt%) |
|---|---|---|---|---|---|---|---|---|---|---|
| 1 | Bedrock | 57.3 | 0.91 | 12.6 | 19.5 | 4.8 | 1.5 | 3.34 | 2.3 | 102.25 |
| 2 | Bedrock | 48.6 | 0.95 | 10 | 20.5 | 3.6 | 1.1 | 2.77 | 1.97 | 89.49 |
| 3 | Bedrock | 55.6 | 1 | 13.2 | 20.5 | 4.9 | 1.5 | 3.25 | 2.42 | 102.37 |
| 4 | Sand | 40.9 | 0.82 | 8.9 | 19.3 | 8.1 | 6.8 | 1.87 | 0.25 | 86.94 |
| 5 | Sand | 52.8 | 0.94 | 11 | 21.8 | 5 | 1.3 | 2.56 | 1.58 | 96.98 |
| 6 | Bedrock | 56.4 | 1.02 | 13.2 | 20.6 | 4.8 | 1.6 | 3.25 | 2.31 | 103.18 |
| 7 | Bedrock | 55.5 | 1.02 | 11.6 | 20.5 | 5.3 | 1.5 | 2.16 | 1.22 | 98.8 |
| 8 | Bedrock | 56.1 | 0.87 | 11.8 | 21 | 4.9 | 1 | 2.76 | 1.95 | 100.38 |
| 9 | Sand | 42.1 | 0.76 | 9.6 | 18.3 | 8.2 | 7.3 | 2 | 0.36 | 88.62 |
| 10 | Sand | 56.8 | 0.9 | 11.8 | 20.1 | 4.9 | 1.4 | 2.91 | 2.32 | 101.13 |

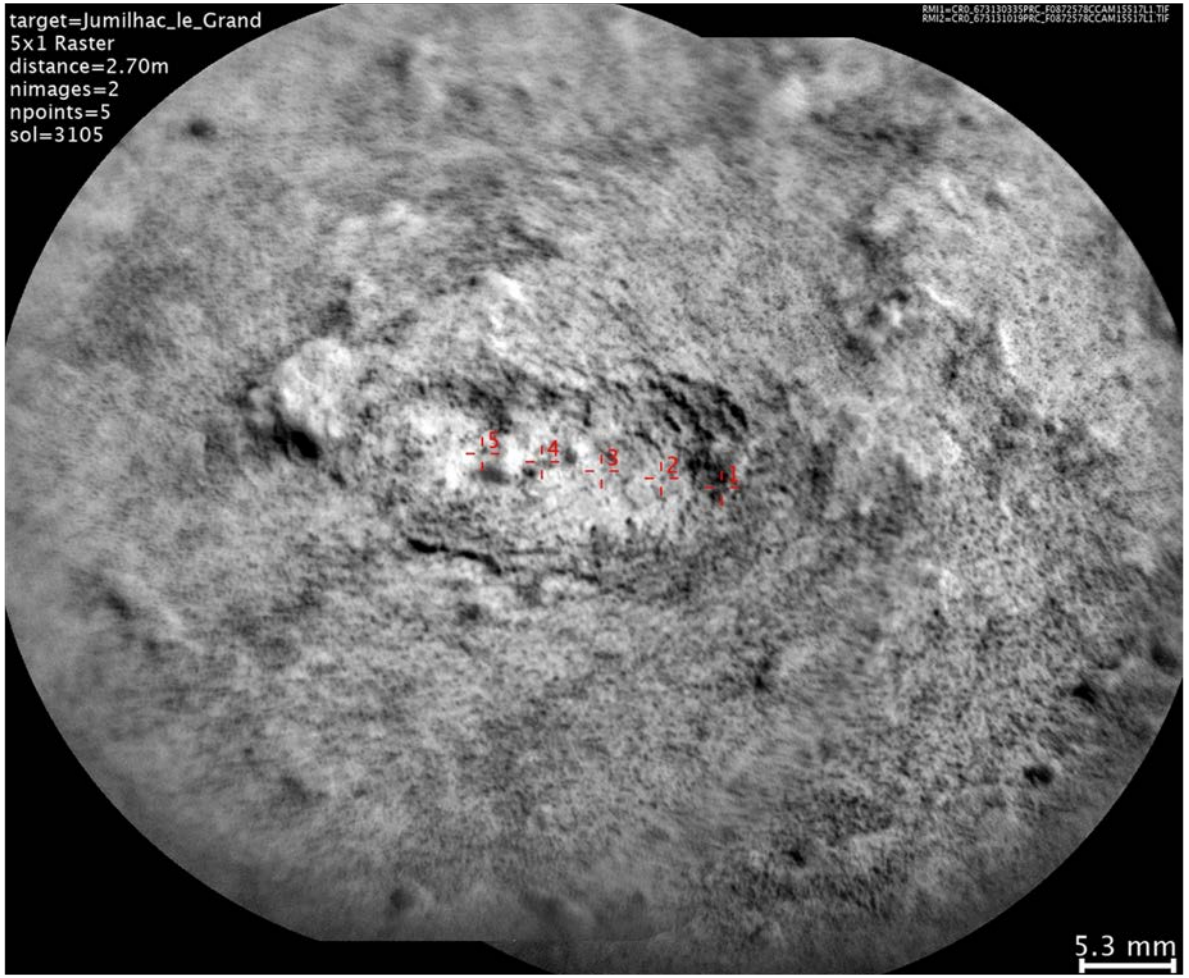


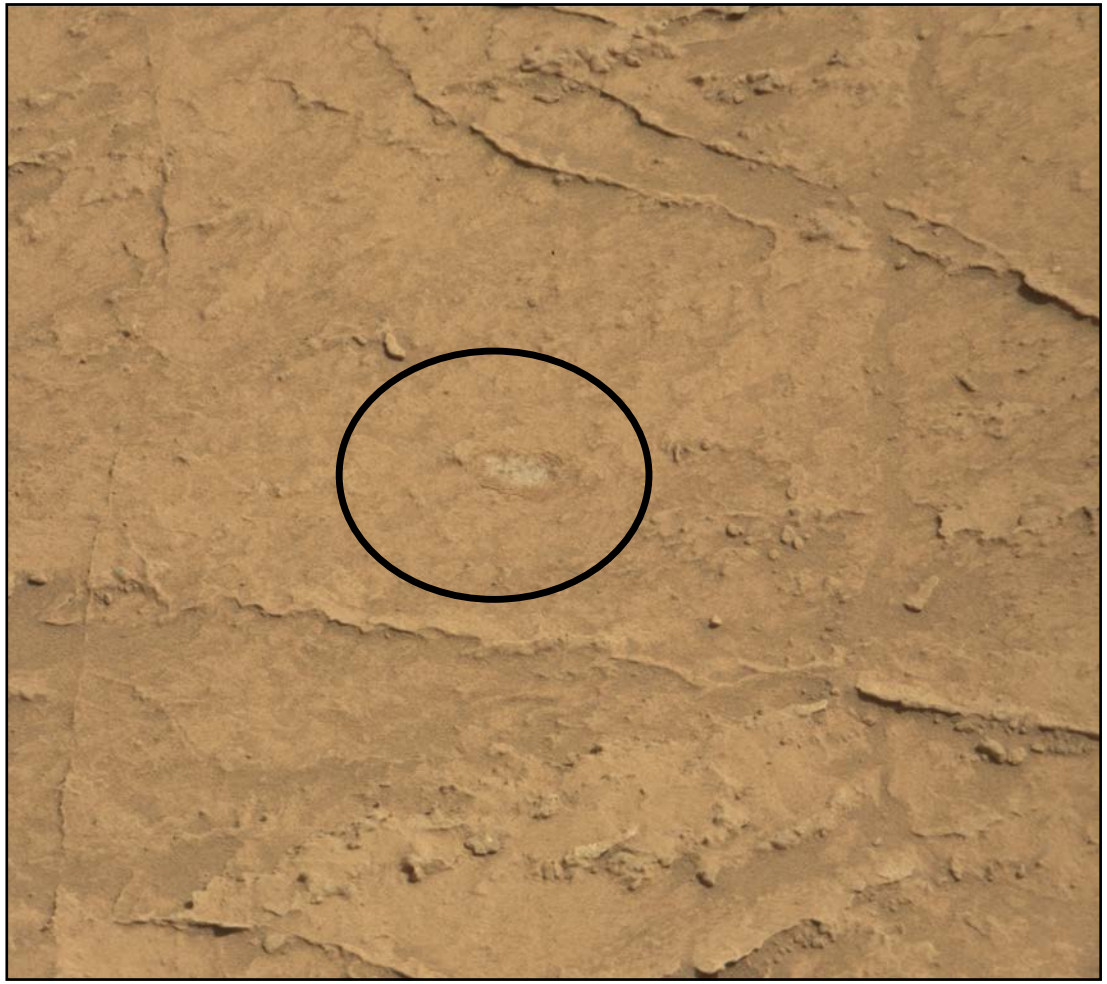
# Target: Jumilhac_le_Grand

**Sol:** 3105
**Elev (m.):** -4066.64066136727
**CCAM Sequence ID:** CCAM15517

**Whole Target Classification:** Bedrock
**Lamination Strength:** Absent
**Lamination Expression:** Absent
**Grain Visibility:** Unclear
**Bedrock Appearance:** Dull
**Nodule Presence:** Absent
**Nodule Diameter:** Absent
**Nodule Resistance:** Absent
**Fracture Presence:** Occasional (<10% by Visual Inspection)

| # | Feature | SiO2 (wt%) | TiO2 (wt%) | Al2O3 (wt%) | FeOT (wt%) | MgO (wt%) | CaO (wt%) | Na2O (wt%) | K2O (wt%) | Sum of Oxides (wt%) |
|---|---|---|---|---|---|---|---|---|---|---|
| 1 | Bedrock | 50.6 | 0.99 | 12.4 | 20.5 | 4.4 | 3.6 | 2.84 | 0.97 | 96.25 |
| 2 | Bedrock | 51.1 | 1.02 | 12.1 | 19.9 | 4.4 | 2.1 | 2.54 | 0.82 | 93.92 |
| 3 | Bedrock | 52.7 | 1.02 | 12.5 | 20.5 | 4.4 | 2.2 | 2.74 | 0.94 | 97.1 |
| 4 | Bedrock | 42.4 | 0.77 | 9.5 | 19.3 | 3 | 11.8 | 1.86 | 0.69 | 89.4 |
| 5 | Bedrock | 54.1 | 1 | 12 | 19.7 | 5.5 | 2.3 | 2.56 | 0.9 | 98.07 |



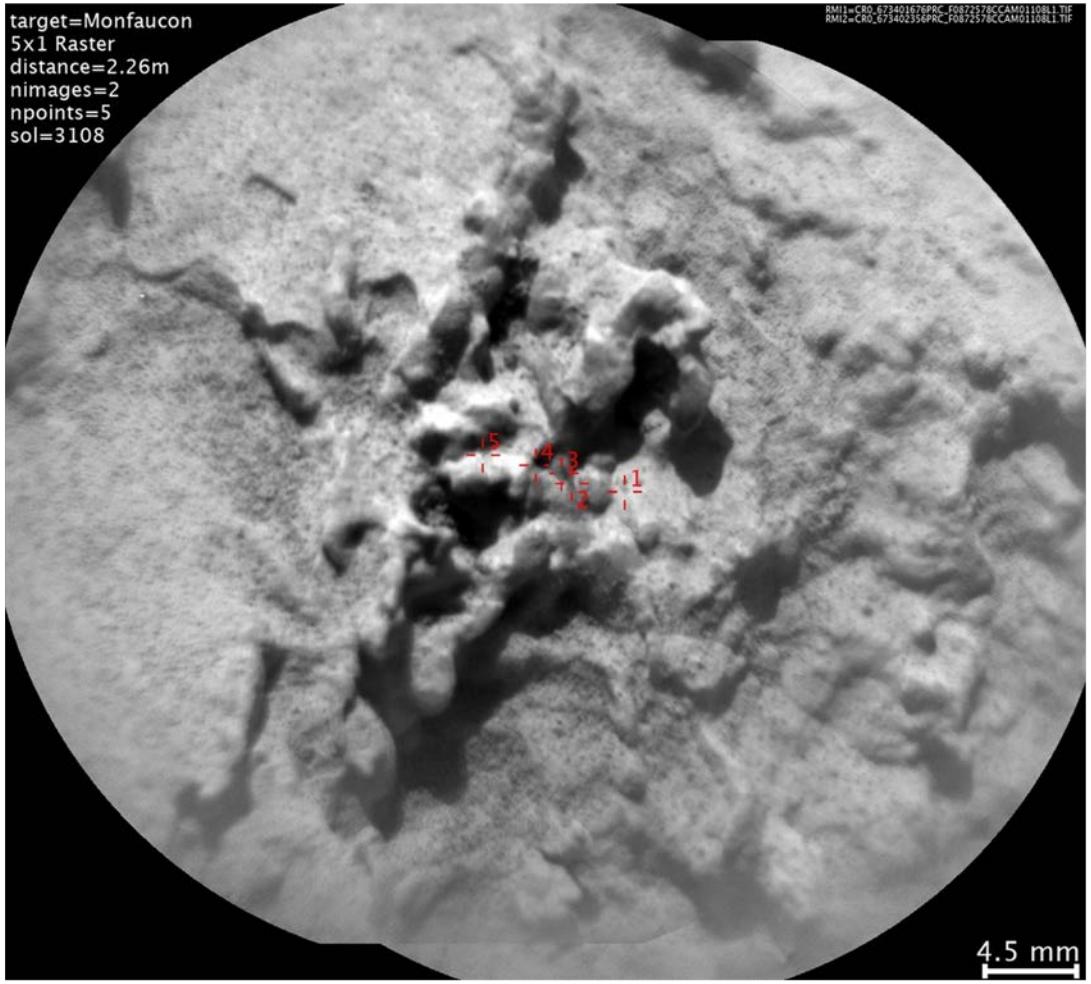



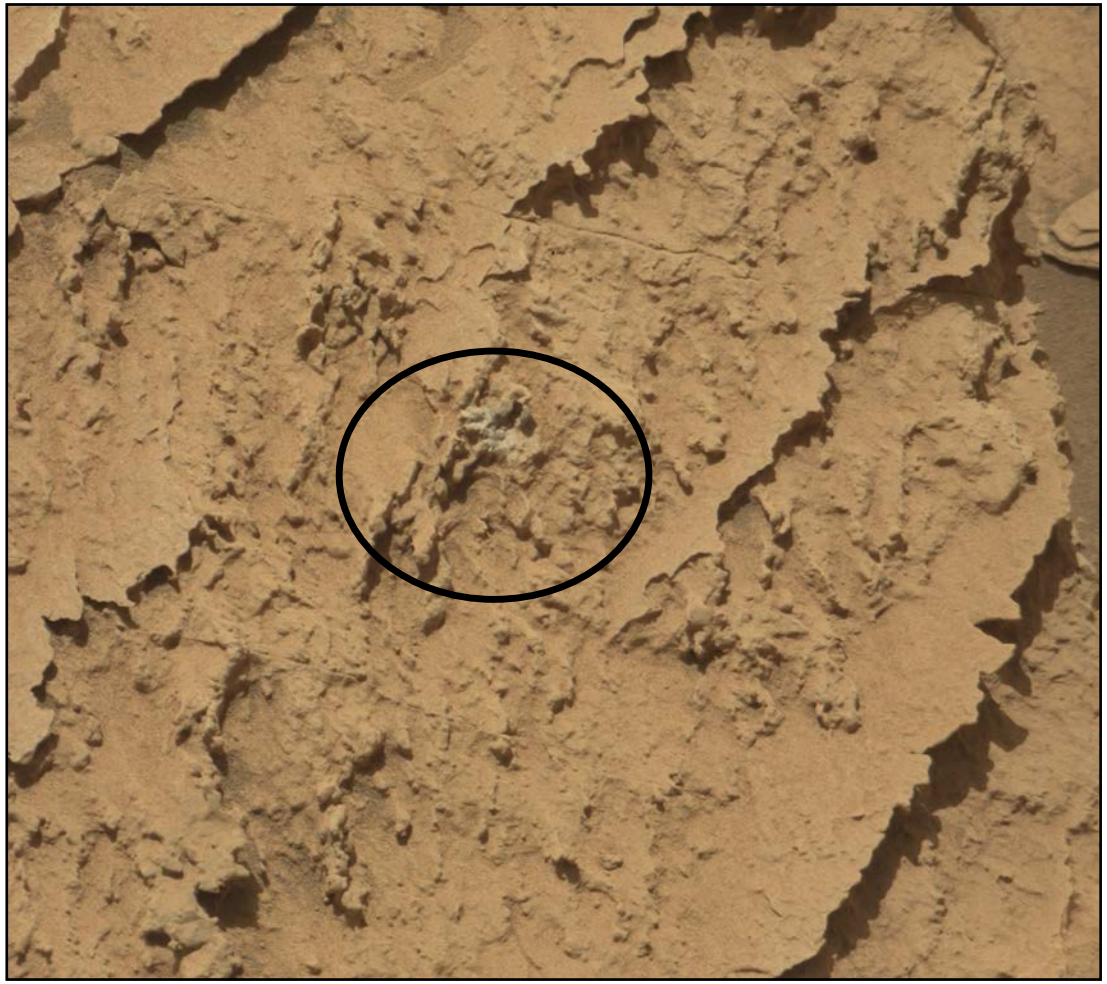
# Target: Monfaucon

**Sol:** 3108
**Elev (m.):** -4066.32935148725
**CCAM Sequence ID:** CCAM01108

**Whole Target Classification:** Bedrock
**Lamination Strength:** Moderately Laminated
**Lamination Expression:** Laminae-Parallel Nodules
**Grain Visibility:** Below RMI Image Resolution
**Bedrock Appearance:** Dull
**Nodule Presence:** Pervasive (>50% by Visual Inspection)
**Nodule Diameter:** Small (<1 mm)
**Nodule Resistance:** Protruding
**Fracture Presence:** Occasional (<10% by Visual Inspection)

| # | Feature | SiO2 (wt%) | TiO2 (wt%) | Al2O3 (wt%) | FeOT (wt%) | MgO (wt%) | CaO (wt%) | Na2O (wt%) | K2O (wt%) | Sum of Oxides (wt%) |
|---|---|---|---|---|---|---|---|---|---|---|
| 1 | Nodule | 54.6 | 0.95 | 11.9 | 18.4 | 4.4 | 2.3 | 2.67 | 1.1 | 96.36 |
| 2 | Nodule | 21.6 | 0.6 | 5.3 | 24.2 | 2.5 | 17.3 | 0.99 | 0.14 | 72.6 |
| 3 | Nodule | 18.6 | 0.59 | 4.5 | 15.2 | 2.3 | 23.6 | 0.65 | 0.1 | 65.55 |
| 4 | Nodule | 49.9 | 0.84 | 9.4 | 20.7 | 4.4 | 2.5 | 2.58 | 1 | 91.35 |
| 5 | Nodule | 41.4 | 0.72 | 8.5 | 14.9 | 3.2 | 13.9 | 1.54 | 0.38 | 84.65 |



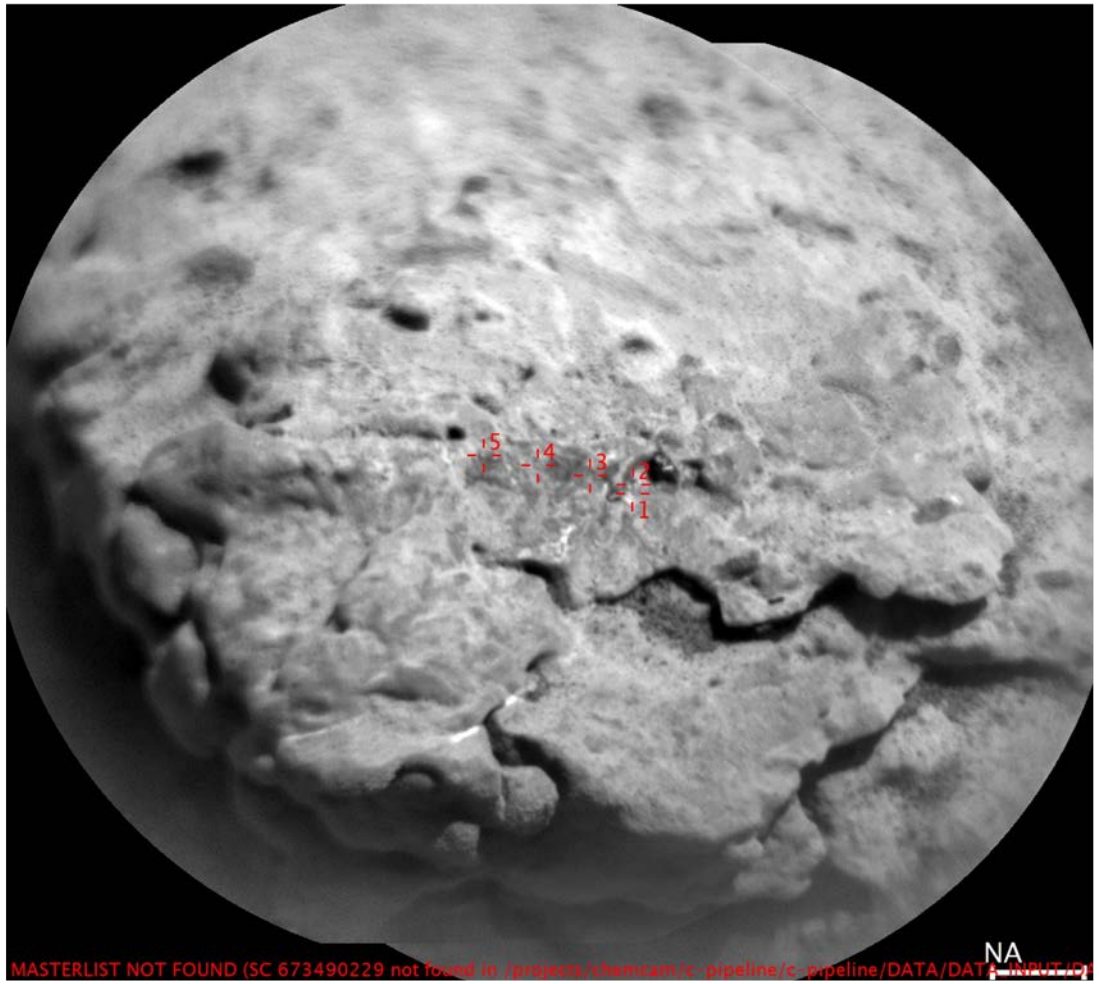



# Target: Sarlat_la_Caneda

**Sol:** 3109
**Elev (m.):** -4066.6287548419
**CCAM Sequence ID:** CCAM01109

**Whole Target Classification:** Bedrock
**Lamination Strength:** Absent
**Lamination Expression:** Absent
**Grain Visibility:** Below RMI Image Resolution
**Bedrock Appearance:** Dull
**Nodule Presence:** Pervasive (>50% by Visual Inspection)
**Nodule Diameter:** Small (<1 mm)
**Nodule Resistance:** Protruding
**Fracture Presence:** Occasional (<10% by Visual Inspection)

| # | Feature | SiO2 (wt%) | TiO2 (wt%) | Al2O3 (wt%) | FeOT (wt%) | MgO (wt%) | CaO (wt%) | Na2O (wt%) | K2O (wt%) | Sum of Oxides (wt%) |
|---|---|---|---|---|---|---|---|---|---|---|
| 1 | Vein or Fracture | 25.3 | 0.61 | 5.4 | 21.2 | 2.5 | 16.3 | 1.94 | 0.96 | 74.18 |
| 2 | Vein or Fracture | 44.8 | 0.79 | 8 | 22.1 | 5 | 3.7 | 1.95 | 2.19 | 88.67 |
| 3 | Nodule | 43.8 | 0.9 | 7 | 19.9 | 5.6 | 0.8 | 1.69 | 2.58 | 82.39 |
| 4 | Nodule | 43.3 | 0.71 | 6.2 | 21.8 | 6.1 | 1.6 | 1.85 | 2.23 | 83.81 |
| 5 | Nodule | 33.5 | 0.72 | 5.8 | 29 | 6.3 | 2.7 | 1.49 | 1.91 | 81.34 |



# Target: Molieres

**Sol:** 3110
**Elev (m.):** -4069.32357606977
**CCAM Sequence ID:** CCAM01110

**Whole Target Classification:** Bedrock
**Lamination Strength:** Weakly Laminated
**Lamination Expression:** Laminae-Parallel Nodules
**Grain Visibility:** Below RMI Image Resolution
**Bedrock Appearance:** Dull
**Nodule Presence:** Pervasive (>50% by Visual Inspection)
**Nodule Diameter:** Small (<1 mm)
**Nodule Resistance:** Protruding
**Fracture Presence:** Common (~10-20% by Visual Inspection)

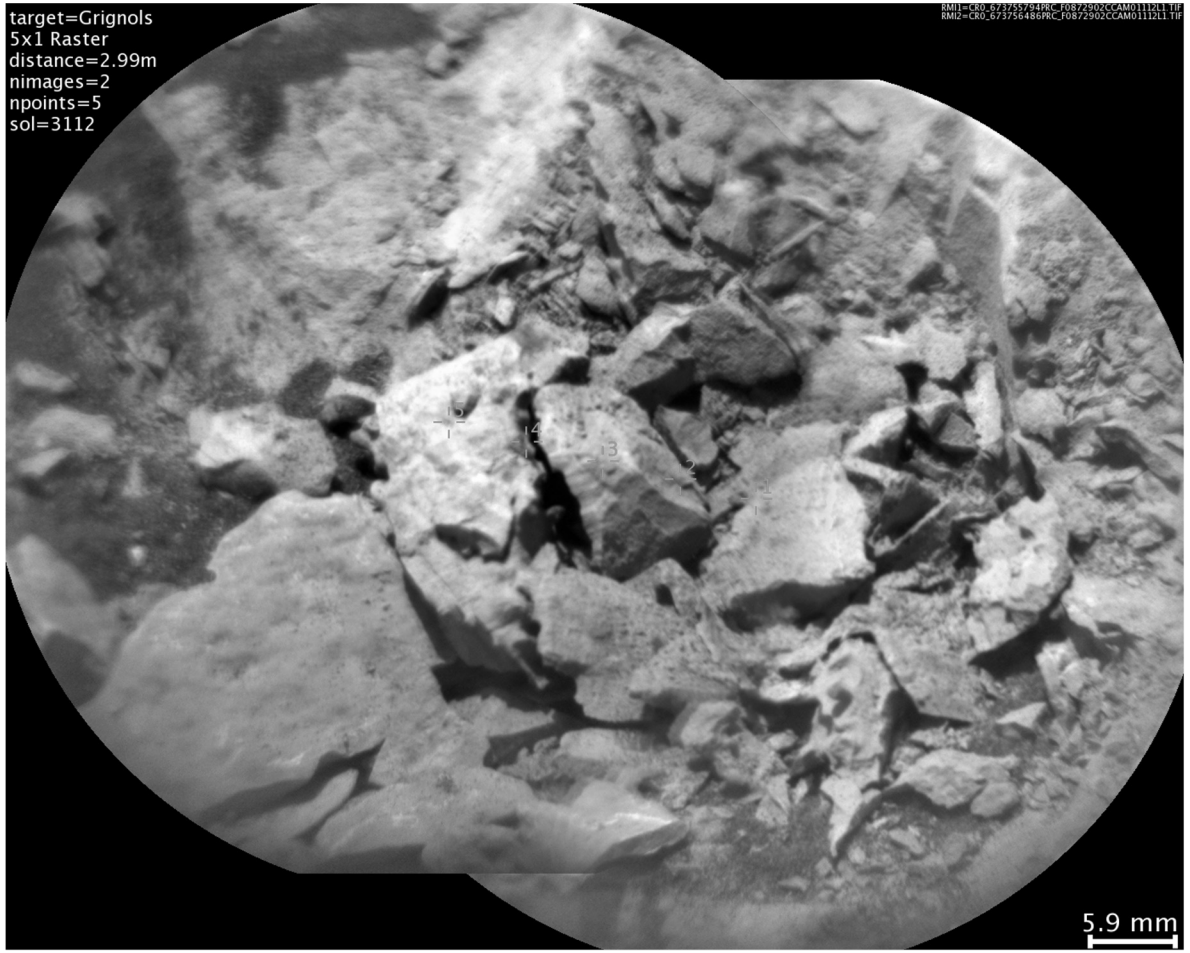
| # | Feature | SiO2 (wt%) | TiO2 (wt%) | Al2O3 (wt%) | FeOT (wt%) | MgO (wt%) | CaO (wt%) | Na2O (wt%) | K2O (wt%) | Sum of Oxides (wt%) |
|---|---|---|---|---|---|---|---|---|---|---|
| 1 | Vein or Fracture | 43.7 | 0.81 | 8.9 | 18.2 | 5.5 | 11.4 | 1.8 | 0.42 | 90.69 |
| 2 | Vein or Fracture | 40.4 | 0.8 | 8.3 | 23.5 | 5 | 8.5 | 1.86 | 0.43 | 88.82 |
| 3 | Vein or Fracture | 52.2 | 1.04 | 11.9 | 19 | 7.7 | 3.3 | 2.8 | 0.84 | 98.71 |
| 4 | Vein or Fracture | 51.4 | 0.93 | 12.9 | 18.9 | 6 | 3.7 | 2.45 | 0.65 | 96.89 |
| 5 | Vein or Fracture | 49.5 | 0.87 | 10.6 | 16.8 | 4.7 | 9.6 | 2.26 | 0.8 | 95.15 |

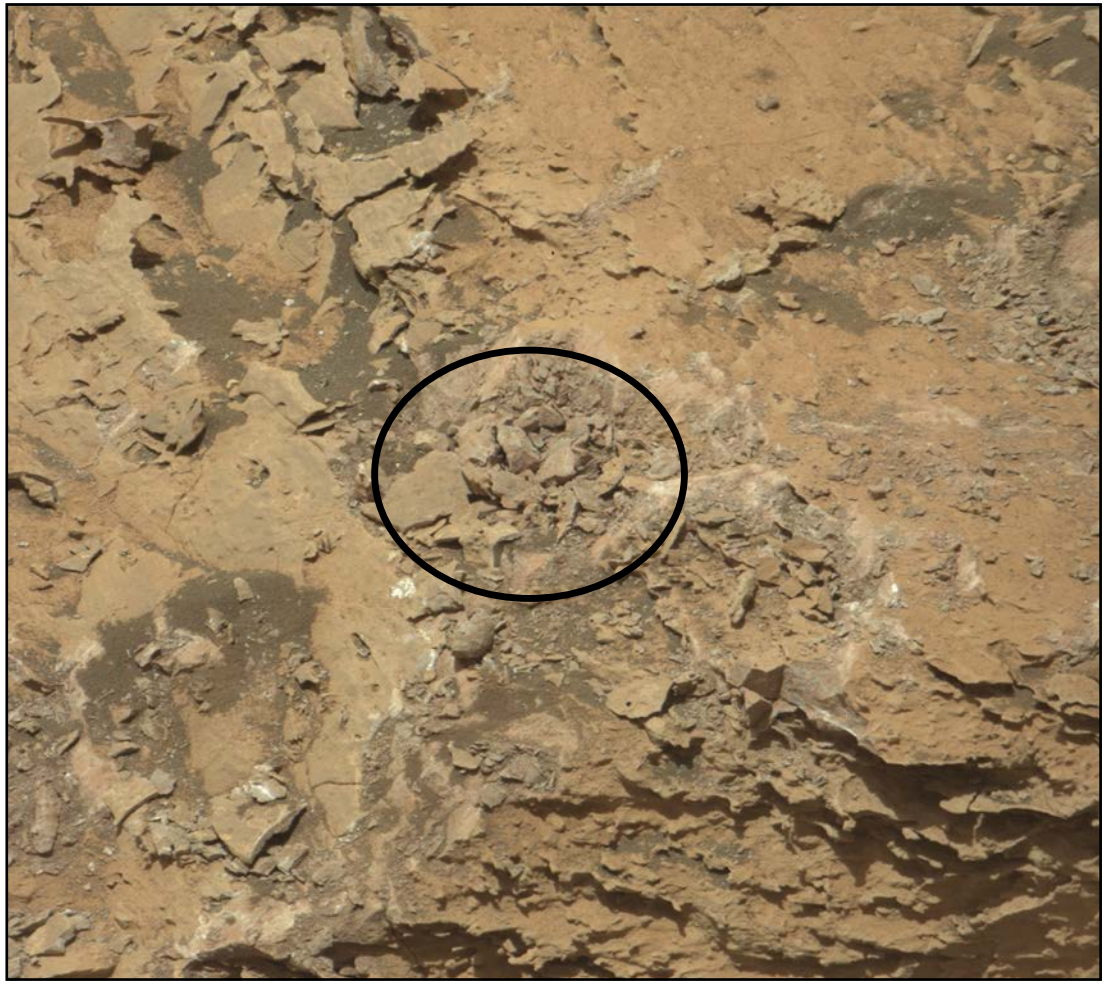
# Target: Grignols

**Sol:** 3112
**Elev (m.):** -4069.49601172713
**CCAM Sequence ID:** CCAM01112

**Whole Target Classification:** Bedrock
**Lamination Strength:** Weakly Laminated
**Lamination Expression:** Laminae-Parallel Nodules
**Grain Visibility:** Below RMI Image Resolution
**Bedrock Appearance:** Dull
**Nodule Presence:** Pervasive (>50% by Visual Inspection)
**Nodule Diameter:** Small (<1 mm)
**Nodule Resistance:** Protruding
**Fracture Presence:** Common (~10-20% by Visual Inspection)

| # | Feature | SiO2 (wt%) | TiO2 (wt%) | Al2O3 (wt%) | FeOT (wt%) | MgO (wt%) | CaO (wt%) | Na2O (wt%) | K2O (wt%) | Sum of Oxides (wt%) |
|---|---|---|---|---|---|---|---|---|---|---|
| 1 | Nodule | 51.3 | 0.97 | 11.7 | 22.5 | 4.9 | 2.9 | 2.94 | 0.97 | 98.28 |
| 2 | Bedrock | 53.8 | 0.9 | 13.4 | 20.2 | 5.1 | 3.4 | 3.19 | 1.12 | 101.02 |
| 3 | Vein or Fracture | 43.3 | 0.74 | 9.2 | 16.7 | 3.4 | 15.6 | 1.78 | 0.63 | 91.39 |
| 4 | Bedrock | 50.6 | 0.88 | 10.8 | 19.1 | 4.3 | 2.9 | 3.05 | 1.23 | 92.96 |
| 5 | Bedrock | 56 | 1 | 12.5 | 19.5 | 5 | 3.4 | 3.05 | 1.23 | 101.73 |



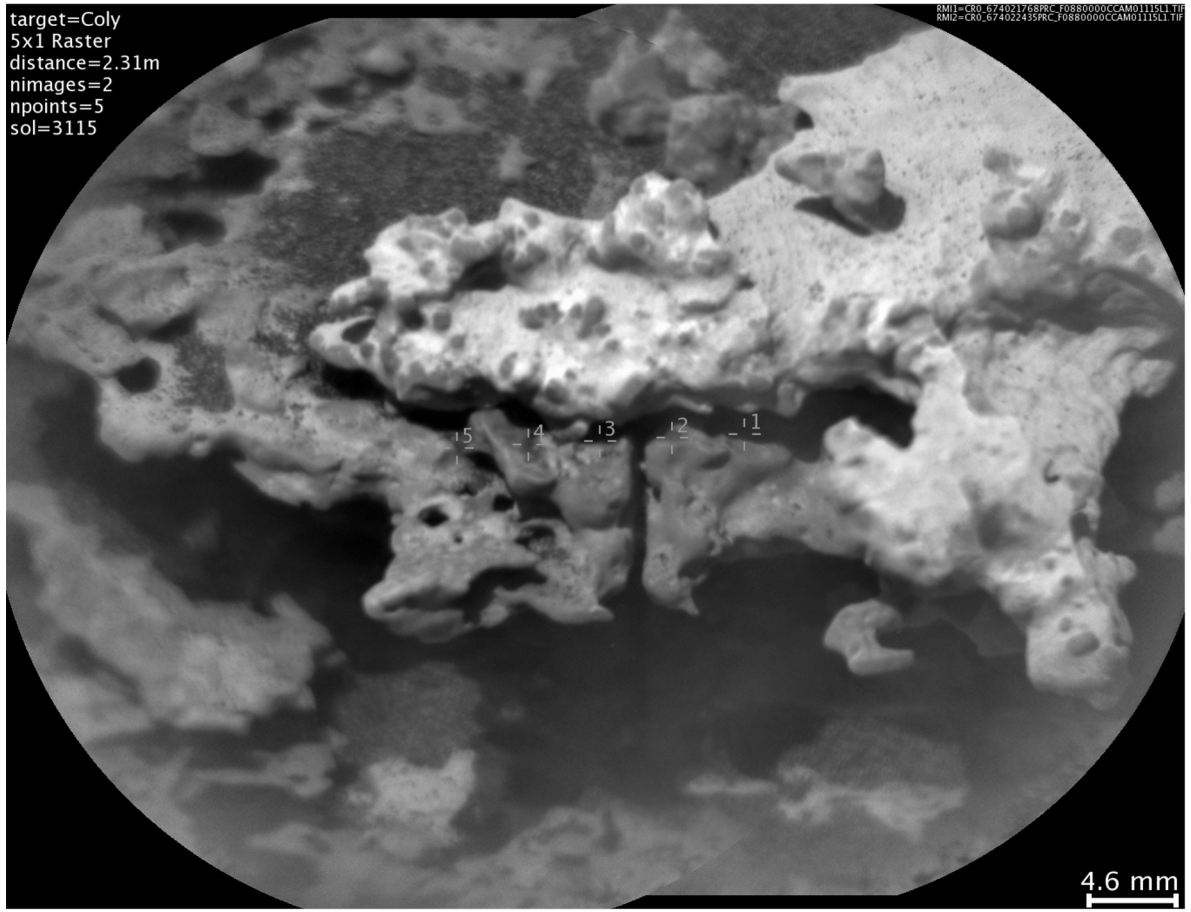



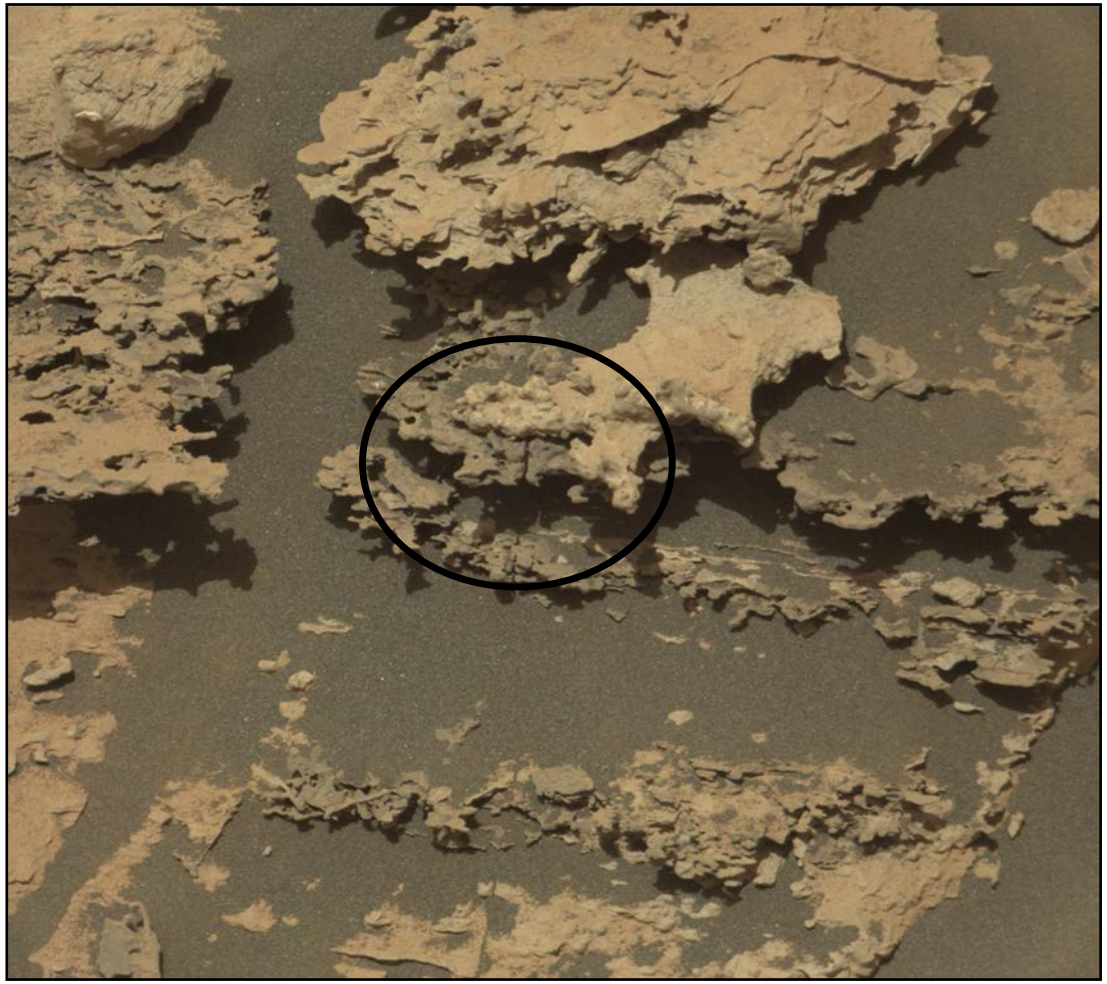
# Target: Coly

**Sol:** 3115
**Elev (m.):** -4068.80570956549
**CCAM Sequence ID:** CCAM01115

**Whole Target Classification:** Bedrock
**Lamination Strength:** Weakly Laminated
**Lamination Expression:** Laminae-Parallel Nodules
**Grain Visibility:** Below RMI Image Resolution
**Bedrock Appearance:** Dull
**Nodule Presence:** Pervasive (>50% by Visual Inspection)
**Nodule Diameter:** Small (<1 mm)
**Nodule Resistance:** Protruding
**Fracture Presence:** Common (~10-20% by Visual Inspection)

| # | Feature | SiO2 (wt%) | TiO2 (wt%) | Al2O3 (wt%) | FeOT (wt%) | MgO (wt%) | CaO (wt%) | Na2O (wt%) | K2O (wt%) | Sum of Oxides (wt%) |
|---|---|---|---|---|---|---|---|---|---|---|
| 1 | Nodule | 38.1 | 0.84 | 6.4 | 25.3 | 4.2 | 3.1 | 1.41 | 1.71 | 80.99 |
| 2 | Nodule | 39.6 | 0.74 | 7.5 | 34.4 | 2.5 | 1.3 | 2.28 | 0.3 | 88.63 |
| 3 | Nodule | 40.7 | 0.77 | 7.4 | 25.7 | 3.8 | 3 | 1.93 | 0.5 | 83.76 |
| 4 | Nodule | 38.9 | 0.95 | 7.3 | 33.4 | 2.5 | 1.5 | 2.09 | 0.34 | 86.84 |
| 5 | Nodule | 41.5 | 0.82 | 8.2 | 29.2 | 2.9 | 3.1 | 1.85 | 1.23 | 88.77 |



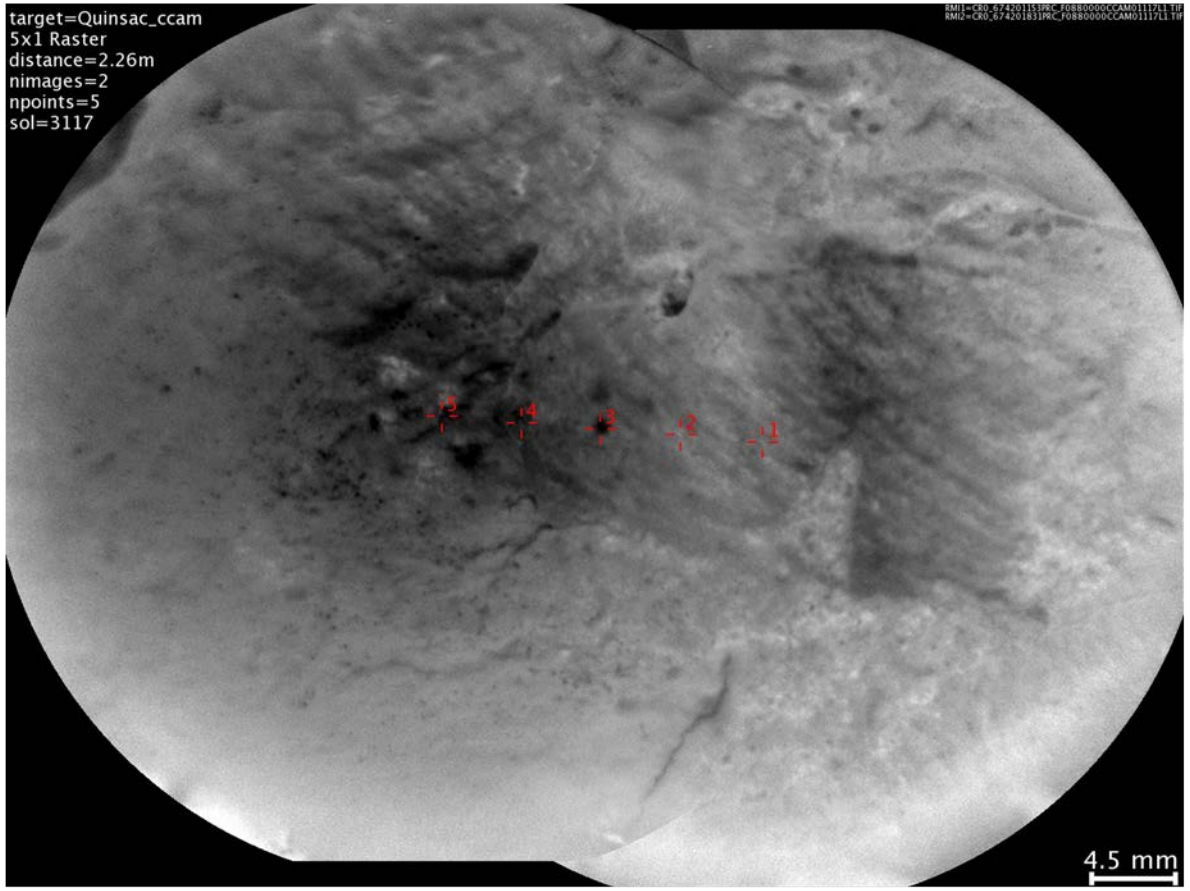



# Target: Quinsac_ccam

**Sol:** 3117
**Elev (m.):** -4068.88890884862
**CCAM Sequence ID:** CCAM01117

**Whole Target Classification:** Bedrock
**Lamination Strength:** Weakly Laminated
**Lamination Expression:** Primary Stratification
**Grain Visibility:** Below RMI Image Resolution
**Bedrock Appearance:** Dull
**Nodule Presence:** Absent
**Nodule Diameter:** Absent
**Nodule Resistance:** Absent
**Fracture Presence:** Common (~10-20% by Visual Inspection)

| # | Feature | SiO2 (wt%) | TiO2 (wt%) | Al2O3 (wt%) | FeOT (wt%) | MgO (wt%) | CaO (wt%) | Na2O (wt%) | K2O (wt%) | Sum of Oxides (wt%) |
|---|---|---|---|---|---|---|---|---|---|---|
| 1 | Vein or Fracture | 28.2 | 0.58 | 5.1 | 10.4 | 2 | 25.5 | 0.62 | 0.2 | 72.67 |
| 2 | Vein or Fracture | 27.8 | 0.57 | 5.2 | 9 | 2 | 26.4 | 0.6 | 0.13 | 71.67 |
| 3 | Vein or Fracture | 34.5 | 0.73 | 6.9 | 29.2 | 3.5 | 9.5 | 1.42 | 0.3 | 86.01 |
| 4 | Vein or Fracture | 30.3 | 0.63 | 5.2 | 13 | 2.7 | 22.1 | 0.77 | 0.13 | 74.84 |
| 5 | Vein or Fracture | 28 | 0.64 | 5 | 12.9 | 2.7 | 22.9 | 0.76 | 0.16 | 72.96 |

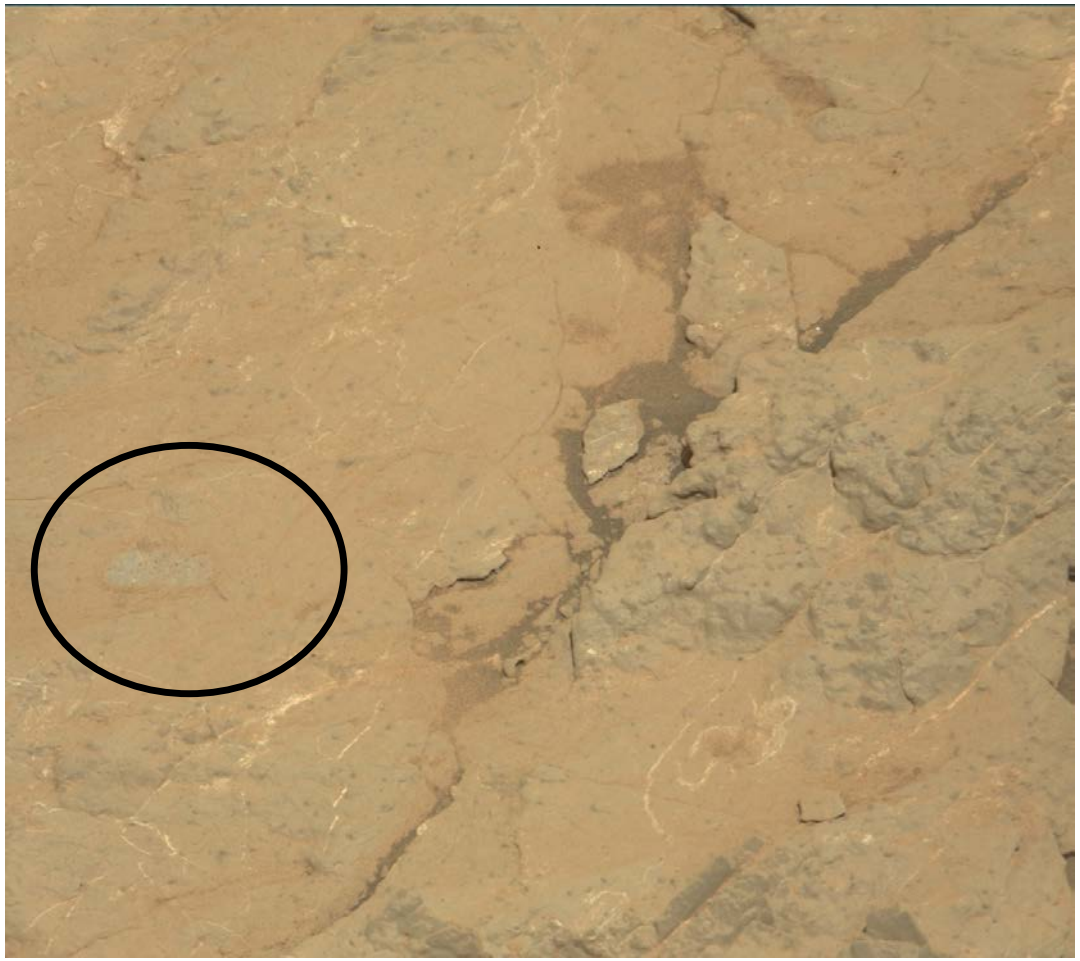


# Target: Monsec_ccam

**Sol:** 3119
**Elev (m.):** -4065.84090430053
**CCAM Sequence ID:** CCAM01119

**Whole Target Classification:** Bedrock
**Lamination Strength:** Weakly Laminated
**Lamination Expression:** Primary Stratification
**Grain Visibility:** Below RMI Image Resolution
**Bedrock Appearance:** Dull
**Nodule Presence:** Absent
**Nodule Diameter:** Absent
**Nodule Resistance:** Absent
**Fracture Presence:** Common (~10-20% by Visual Inspection)

| # | Feature | SiO2 (wt%) | TiO2 (wt%) | Al2O3 (wt%) | FeOT (wt%) | MgO (wt%) | CaO (wt%) | Na2O (wt%) | K2O (wt%) | Sum of Oxides (wt%) |
|---|---|---|---|---|---|---|---|---|---|---|
| 1 | Bedrock | 56 | 0.97 | 12.4 | 17.9 | 5.7 | 2.2 | 2.68 | 1.33 | 99.13 |
| 2 | Vein or Fracture | 34.4 | 0.83 | 6.5 | 27.7 | 3.7 | 8.7 | 1.67 | 0.47 | 84.03 |
| 3 | Bedrock | 56.3 | 0.9 | 11.8 | 18.7 | 5.9 | 2 | 2.47 | 1.12 | 99.06 |
| 4 | Vein or Fracture | 49.7 | 0.88 | 11.5 | 18.7 | 4.1 | 2.7 | 2.33 | 0.81 | 90.78 |
| 5 | Bedrock | 54.8 | 0.94 | 11.8 | 18.5 | 5.8 | 2 | 2.54 | 1.19 | 97.63 |

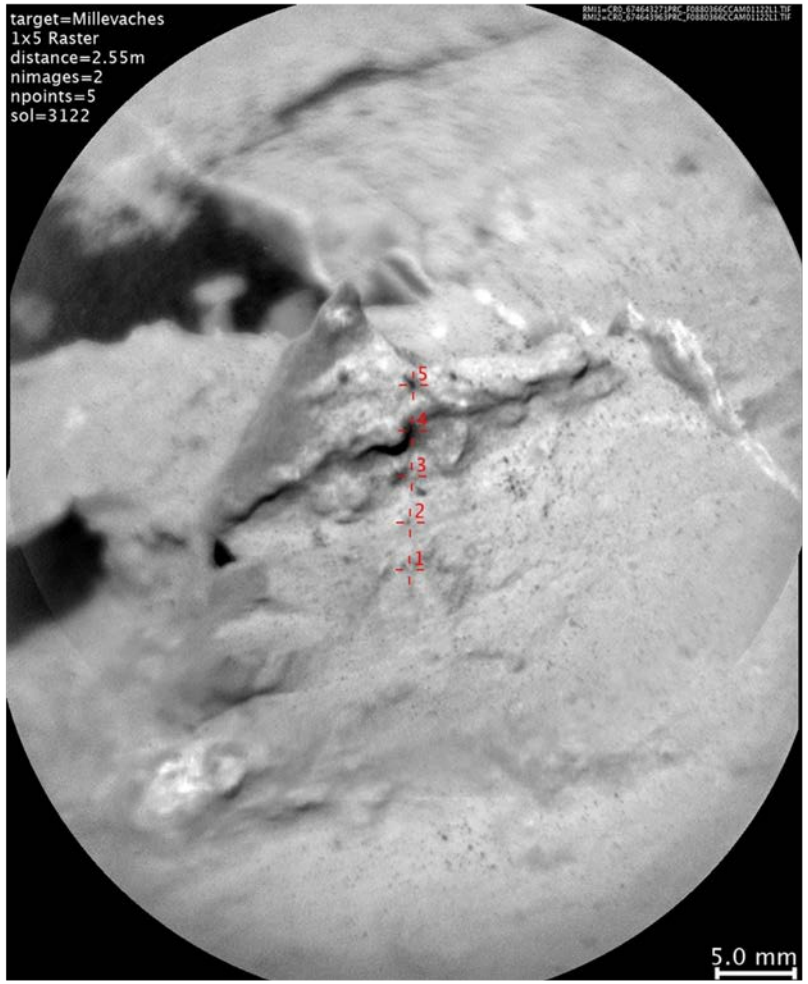


# Target: Millevaches

**Sol:** 3122
**Elev (m.):** -4063.24711156775
**CCAM Sequence ID:** CCAM01122

**Whole Target Classification:** Bedrock
**Lamination Strength:** Absent
**Lamination Expression:** Absent
**Grain Visibility:** Below RMI Image Resolution
**Bedrock Appearance:** Dull
**Nodule Presence:** Absent
**Nodule Diameter:** Absent
**Nodule Resistance:** Absent
**Fracture Presence:** Pervasive (>20% by Visual Inspection)

| # | Feature | SiO2 (wt%) | TiO2 (wt%) | Al2O3 (wt%) | FeOT (wt%) | MgO (wt%) | CaO (wt%) | Na2O (wt%) | K2O (wt%) | Sum of Oxides (wt%) |
|---|---|---|---|---|---|---|---|---|---|---|
| 1 | Vein or Fracture | 33.4 | 0.63 | 6.5 | 12.2 | 2.5 | 22.3 | 0.91 | 0.26 | 78.66 |
| 2 | Vein or Fracture | 51.8 | 0.93 | 12.3 | 21 | 5.4 | 2.1 | 2.57 | 1.05 | 97.19 |
| 3 | Vein or Fracture | 43 | 0.8 | 9.3 | 18.4 | 3.9 | 12.1 | 1.72 | 0.64 | 89.83 |
| 4 | Vein or Fracture | 50.9 | 0.88 | 9.1 | 19.8 | 6 | 2 | 2.37 | 1.06 | 92.12 |
| 5 | Vein or Fracture | 52 | 0.96 | 11.2 | 21.2 | 5.6 | 2 | 2.83 | 1.47 | 97.19 |

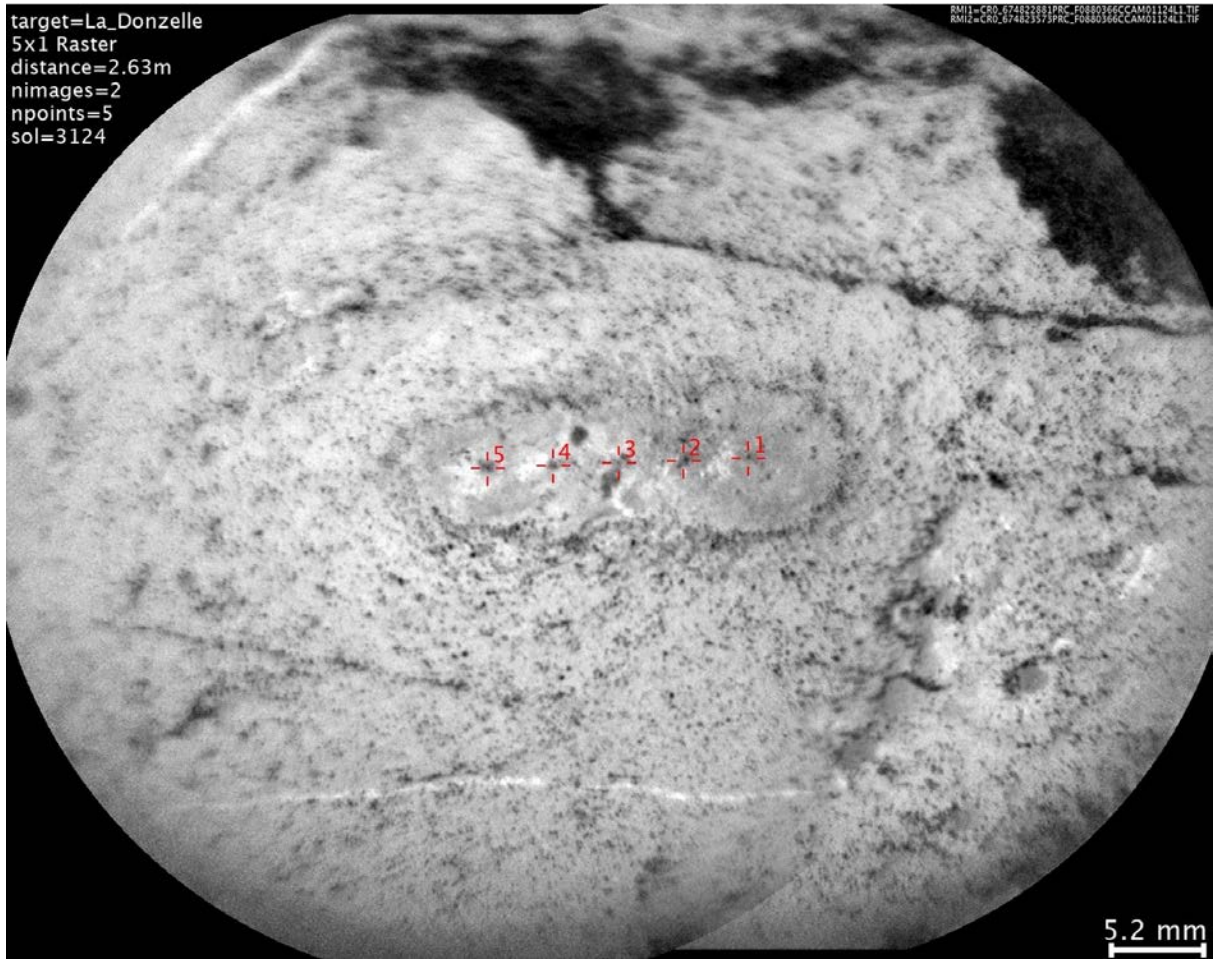


# Target: La_Donzelle

**Sol:** 3124
**Elev (m.):** -4063.23858147314
**CCAM Sequence ID:** CCAM01124

**Whole Target Classification:** Bedrock
**Lamination Strength:** Absent
**Lamination Expression:** Absent
**Grain Visibility:** Below RMI Image Resolution
**Bedrock Appearance:** Dull
**Nodule Presence:** Absent
**Nodule Diameter:** Absent
**Nodule Resistance:** Absent
**Fracture Presence:** Occasional (<10% by Visual Inspection)

| # | Feature | SiO2 (wt%) | TiO2 (wt%) | Al2O3 (wt%) | FeOT (wt%) | MgO (wt%) | CaO (wt%) | Na2O (wt%) | K2O (wt%) | Sum of Oxides (wt%) |
|---|---|---|---|---|---|---|---|---|---|---|
| 1 | Bedrock | 52.6 | 0.94 | 11.7 | 20.4 | 5.4 | 2.1 | 2.61 | 1.14 | 96.94 |
| 2 | Bedrock | 52 | 1.09 | 12.2 | 20.8 | 5.4 | 2 | 2.72 | 1.15 | 97.32 |
| 3 | Vein or Fracture | 48.7 | 0.88 | 11.1 | 18.1 | 4.9 | 7.8 | 2.02 | 0.64 | 94.26 |
| 4 | Bedrock | 49.6 | 0.87 | 11.2 | 19.1 | 9.5 | 1.9 | 2.45 | 0.74 | 95.37 |
| 5 | Bedrock | 55.4 | 0.97 | 12.9 | 19 | 5.5 | 2.4 | 2.84 | 1.31 | 100.33 |

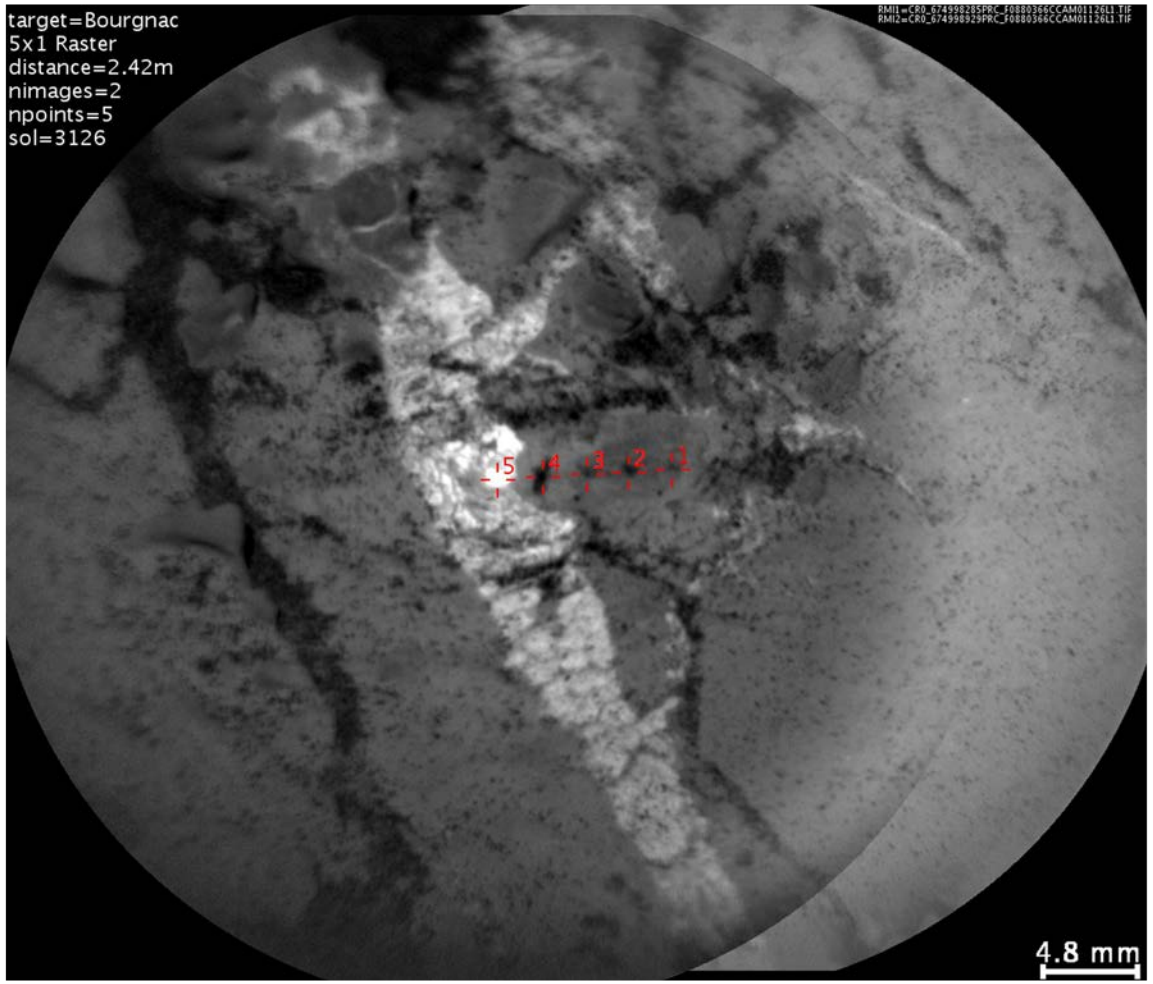


# Target: Bourgnac

**Sol:** 3126
**Elev (m.):** -4063.25468433244
**CCAM Sequence ID:** CCAM01126

**Whole Target Classification:** Bedrock
**Lamination Strength:** Absent
**Lamination Expression:** Absent
**Grain Visibility:** Below RMI Image Resolution
**Bedrock Appearance:** Dull
**Nodule Presence:** Absent
**Nodule Diameter:** Absent
**Nodule Resistance:** Absent
**Fracture Presence:** Common (~10-20% by Visual Inspection)

| # | Feature | SiO2 (wt%) | TiO2 (wt%) | Al2O3 (wt%) | FeOT (wt%) | MgO (wt%) | CaO (wt%) | Na2O (wt%) | K2O (wt%) | Sum of Oxides (wt%) |
|---|---|---|---|---|---|---|---|---|---|---|
| 1 | Bedrock | 53.1 | 0.94 | 10.8 | 19.9 | 5.4 | 1.9 | 2.64 | 1.14 | 95.84 |
| 2 | Bedrock | 51.2 | 0.95 | 10.2 | 19.9 | 5.5 | 1.7 | 2.34 | 0.86 | 92.73 |
| 3 | Bedrock | 53.1 | 0.96 | 11.3 | 20.1 | 5.1 | 2.3 | 2.45 | 0.84 | 96.16 |
| 4 | Bedrock | 53.8 | 0.96 | 11.5 | 21.2 | 4.8 | 2.5 | 2.74 | 0.75 | 98.24 |
| 5 | Vein or Fracture | 2.7 | 0 | 0.7 | 0.1 | 1 | 41.7 | 0.24 | 0.01 | 46.45 |

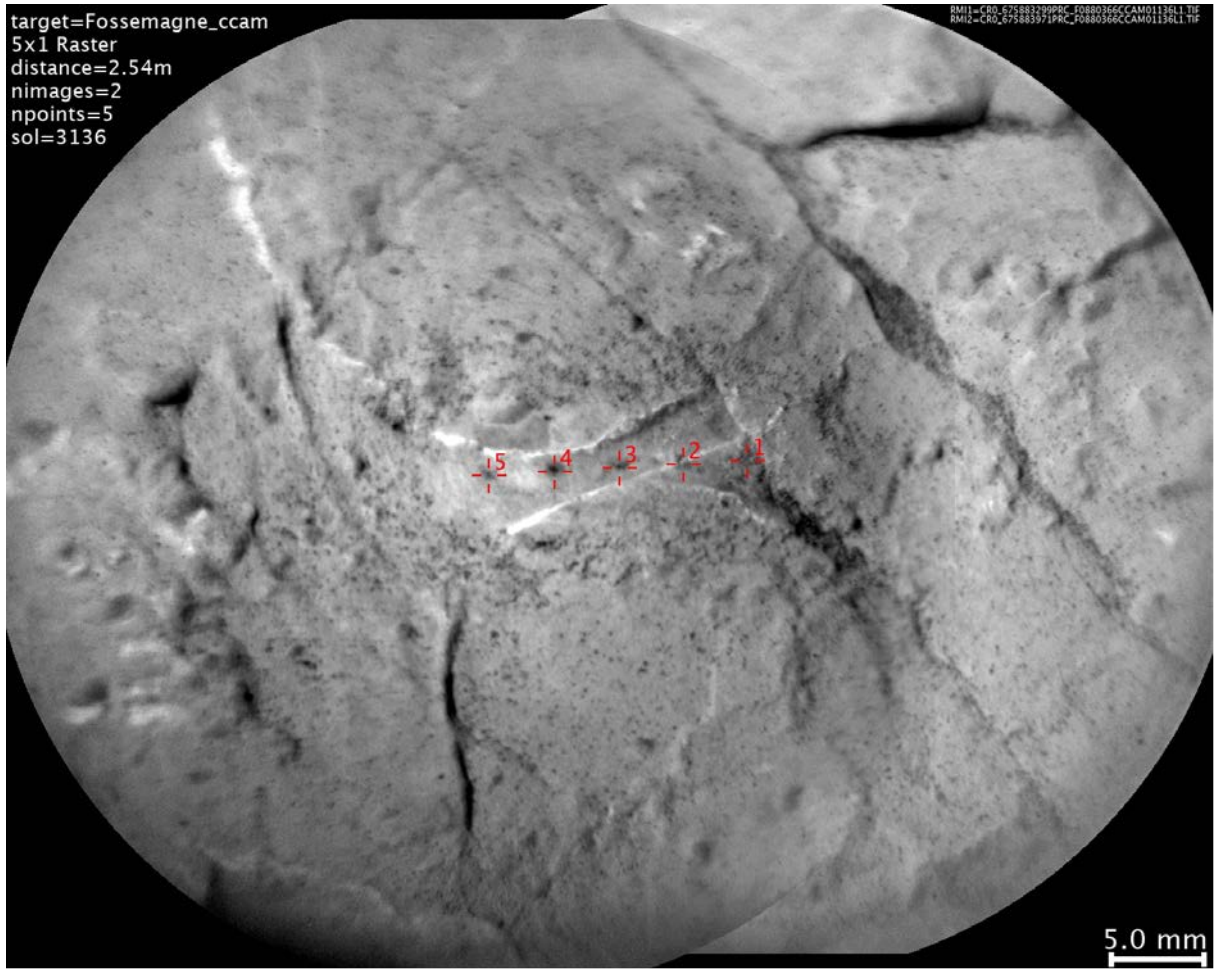


# Target: Fossemagne_ccam

**Sol:** 3136
**Elev (m.):** -4063.22189806036
**CCAM Sequence ID:** CCAM01136

**Whole Target Classification:** Bedrock
**Lamination Strength:** Absent
**Lamination Expression:** Absent
**Grain Visibility:** Below RMI Image Resolution
**Bedrock Appearance:** Dull
**Nodule Presence:** Absent
**Nodule Diameter:** Absent
**Nodule Resistance:** Absent
**Fracture Presence:** Common (~10-20% by Visual Inspection)

| # | Feature | SiO2 (wt%) | TiO2 (wt%) | Al2O3 (wt%) | FeOT (wt%) | MgO (wt%) | CaO (wt%) | Na2O (wt%) | K2O (wt%) | Sum of Oxides (wt%) |
|---|---|---|---|---|---|---|---|---|---|---|
| 1 | Bedrock | 50.5 | 0.9 | 11.4 | 20.4 | 6.5 | 2.4 | 2.35 | 0.71 | 95.19 |
| 2 | Vein or Fracture | 45 | 0.78 | 10 | 15.7 | 3 | 12.7 | 1.82 | 0.68 | 89.78 |
| 3 | Bedrock | 51.9 | 1.02 | 12.4 | 19.9 | 4.9 | 3.6 | 2.37 | 0.82 | 96.91 |
| 4 | Bedrock | 52.4 | 0.98 | 11.9 | 21.1 | 5.1 | 2 | 2.52 | 0.99 | 97 |
| 5 | Bedrock | 52.4 | 0.99 | 12.2 | 18.4 | 4.3 | 5.5 | 2.4 | 0.92 | 97.18 |

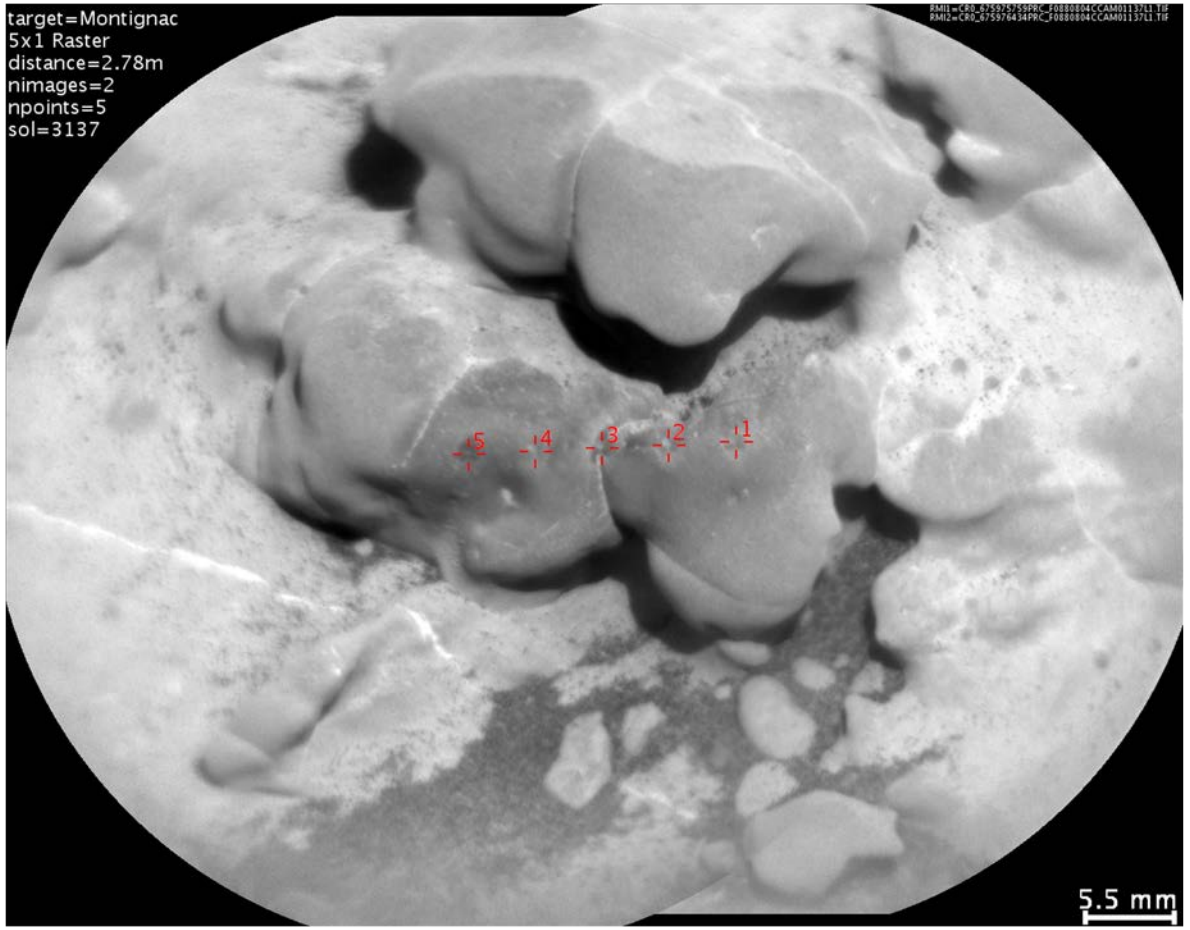


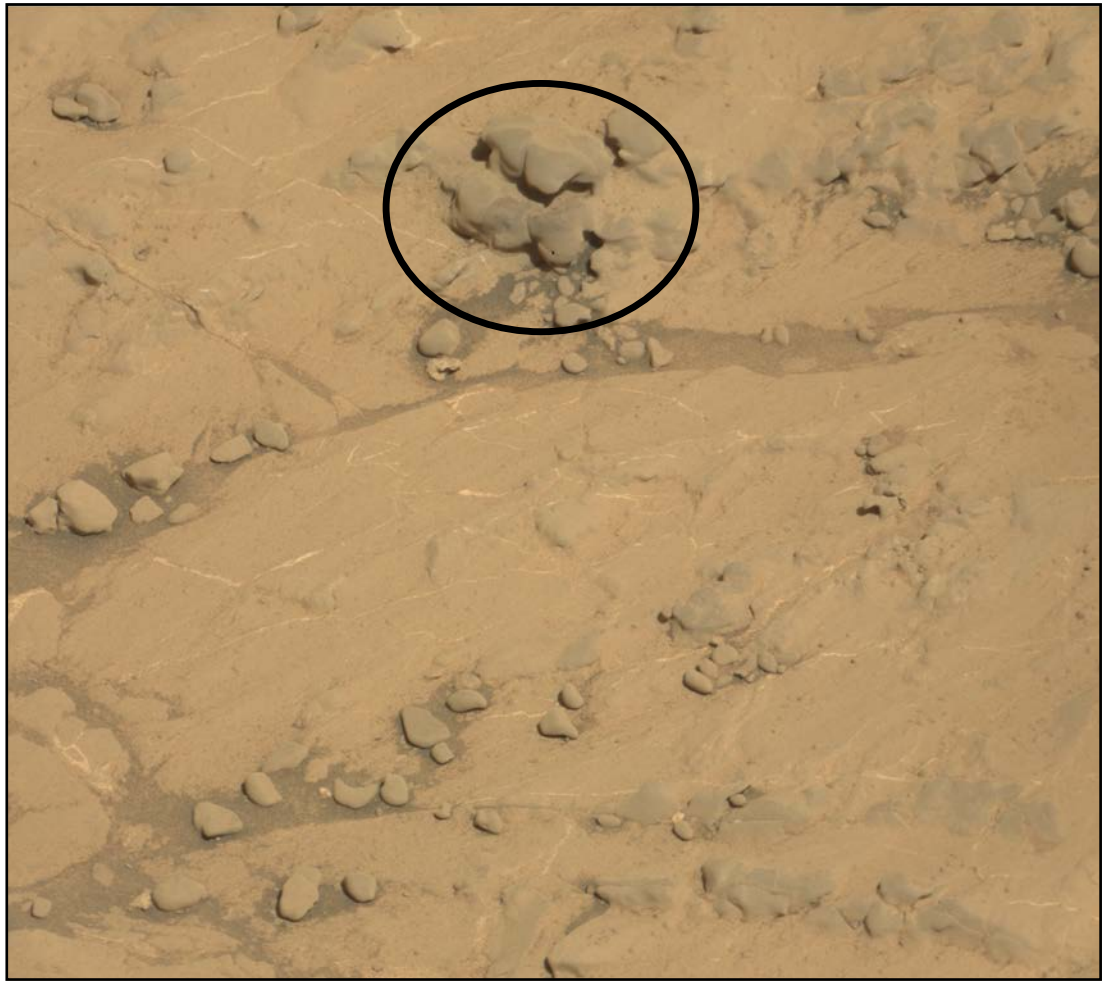
# Target: Montignac

**Sol:** 3137
**Elev (m.):** -4062.55157699474
**CCAM Sequence ID:** CCAM01137

**Whole Target Classification:** Bedrock
**Lamination Strength:** Absent
**Lamination Expression:** Absent
**Grain Visibility:** Below RMI Image Resolution
**Bedrock Appearance:** Dull
**Nodule Presence:** Common (~30% by Visual Inspection
**Nodule Diameter:** Large (>3 mm)
**Nodule Resistance:** Protruding
**Fracture Presence:** Common (~10-20% by Visual Inspection)

| # | Feature | SiO2 (wt%) | TiO2 (wt%) | Al2O3 (wt%) | FeOT (wt%) | MgO (wt%) | CaO (wt%) | Na2O (wt%) | K2O (wt%) | Sum of Oxides (wt%) |
|---|---|---|---|---|---|---|---|---|---|---|
| 1 | Nodule | 45.2 | 0.95 | 9 | 20 | 15.4 | 1.4 | 1.81 | 0.66 | 94.43 |
| 2 | Nodule | 46.7 | 0.87 | 9.1 | 18.2 | 16.4 | 1.3 | 1.75 | 0.64 | 94.93 |
| 3 | Nodule | 43.9 | 0.9 | 9 | 19.7 | 15.1 | 3.4 | 1.57 | 0.36 | 94.04 |
| 4 | Nodule | 43.5 | 0.83 | 8.9 | 20.6 | 11.3 | 5.8 | 1.65 | 0.61 | 93.26 |
| 5 | Nodule | 43.7 | 0.91 | 8.4 | 20.8 | 13.6 | 3.1 | 1.58 | 0.57 | 92.67 |



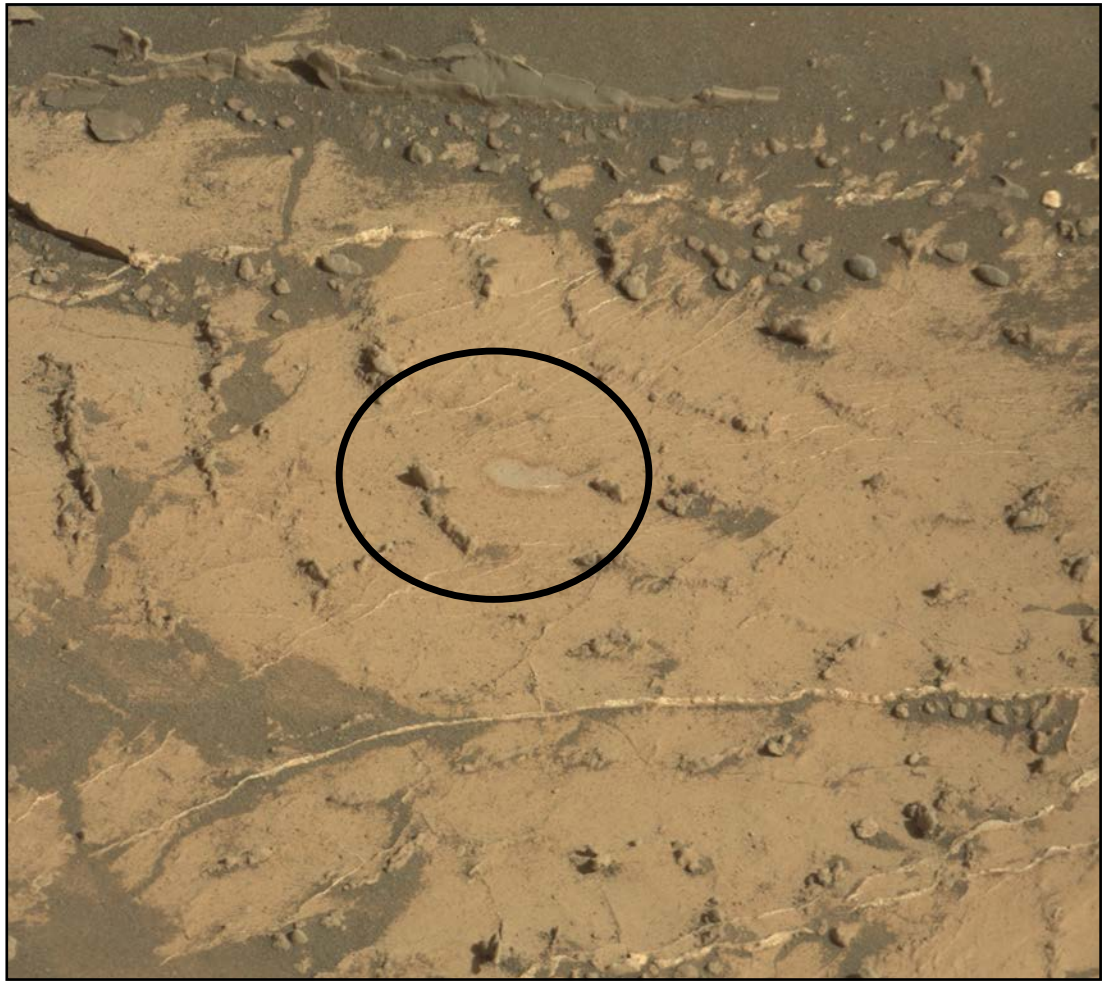



# Target: Lamourette

**Sol:** 3139
**Elev (m.):** -4065.62139486789
**CCAM Sequence ID:** CCAM01139

**Whole Target Classification:** Bedrock
**Lamination Strength:** Weakly Laminated
**Lamination Expression:** Laminae-Parallel Nodules
**Grain Visibility:** Below RMI Image Resolution
**Bedrock Appearance:** Dull
**Nodule Presence:** Occasional (~10% by Visual Inspection)
**Nodule Diameter:** Medium (1 - 3 mm)
**Nodule Resistance:** Protruding
**Fracture Presence:** Pervasive (>20% by Visual Inspection)

| # | Feature | SiO2 (wt%) | TiO2 (wt%) | Al2O3 (wt%) | FeOT (wt%) | MgO (wt%) | CaO (wt%) | Na2O (wt%) | K2O (wt%) | Sum of Oxides (wt%) |
|---|---|---|---|---|---|---|---|---|---|---|
| 1 | Bedrock | 52 | 0.98 | 12.6 | 20.8 | 5.3 | 2.6 | 2.63 | 0.75 | 97.75 |
| 2 | Bedrock | 53.2 | 1.05 | 12.4 | 20.7 | 4.9 | 2.6 | 2.71 | 0.92 | 98.36 |
| 3 | Bedrock | 50.5 | 0.9 | 11.7 | 20.4 | 5 | 4.2 | 2.63 | 0.87 | 96.18 |
| 4 | Bedrock | 52.8 | 0.94 | 11.7 | 20.9 | 5 | 2.6 | 2.82 | 0.91 | 97.7 |
| 5 | Bedrock | 51.9 | 0.95 | 11.7 | 21 | 5.4 | 2.5 | 2.78 | 0.93 | 97.19 |

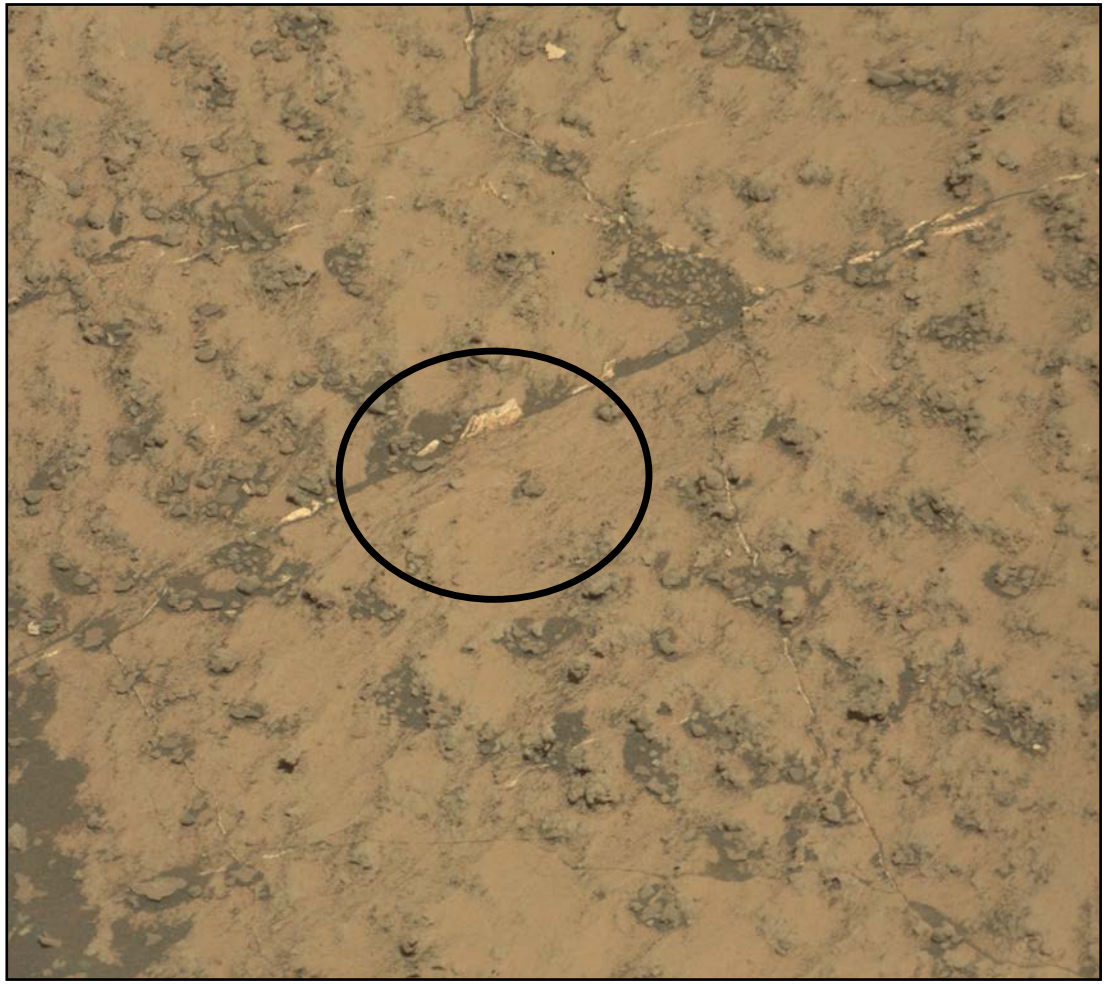


# Target: Vayres

**Sol:** 3142
**Elev (m.):** -4067.07691265973
**CCAM Sequence ID:** CCAM01142

**Whole Target Classification:** Bedrock
**Lamination Strength:** Absent
**Lamination Expression:** Absent
**Grain Visibility:** Below RMI Image Resolution
**Bedrock Appearance:** Dull
**Nodule Presence:** Common (~30% by Visual Inspection
**Nodule Diameter:** Medium (1 - 3 mm)
**Nodule Resistance:** Protruding
**Fracture Presence:** Common (~10-20% by Visual Inspection)

| # | Feature | SiO2 (wt%) | TiO2 (wt%) | Al2O3 (wt%) | FeOT (wt%) | MgO (wt%) | CaO (wt%) | Na2O (wt%) | K2O (wt%) | Sum of Oxides (wt%) |
|---|---|---|---|---|---|---|---|---|---|---|
| 1 | Bedrock | 45.3 | 0.77 | 10.1 | 17.6 | 3.6 | 12.1 | 2.2 | 0.71 | 92.26 |
| 2 | Bedrock | 52.2 | 0.92 | 13.6 | 18.8 | 3.7 | 2.3 | 3.13 | 0.99 | 95.57 |
| 3 | Vein or Fracture | 42.3 | 0.77 | 9.6 | 26.3 | 4.1 | 6.9 | 2.41 | 0.74 | 93.1 |
| 4 | Bedrock | 52.8 | 0.96 | 13 | 20.8 | 6.7 | 2.3 | 2.9 | 0.97 | 100.33 |
| 5 | Bedrock | 47.9 | 0.9 | 11 | 21.1 | 9.7 | 3 | 2.65 | 0.8 | 97.07 |

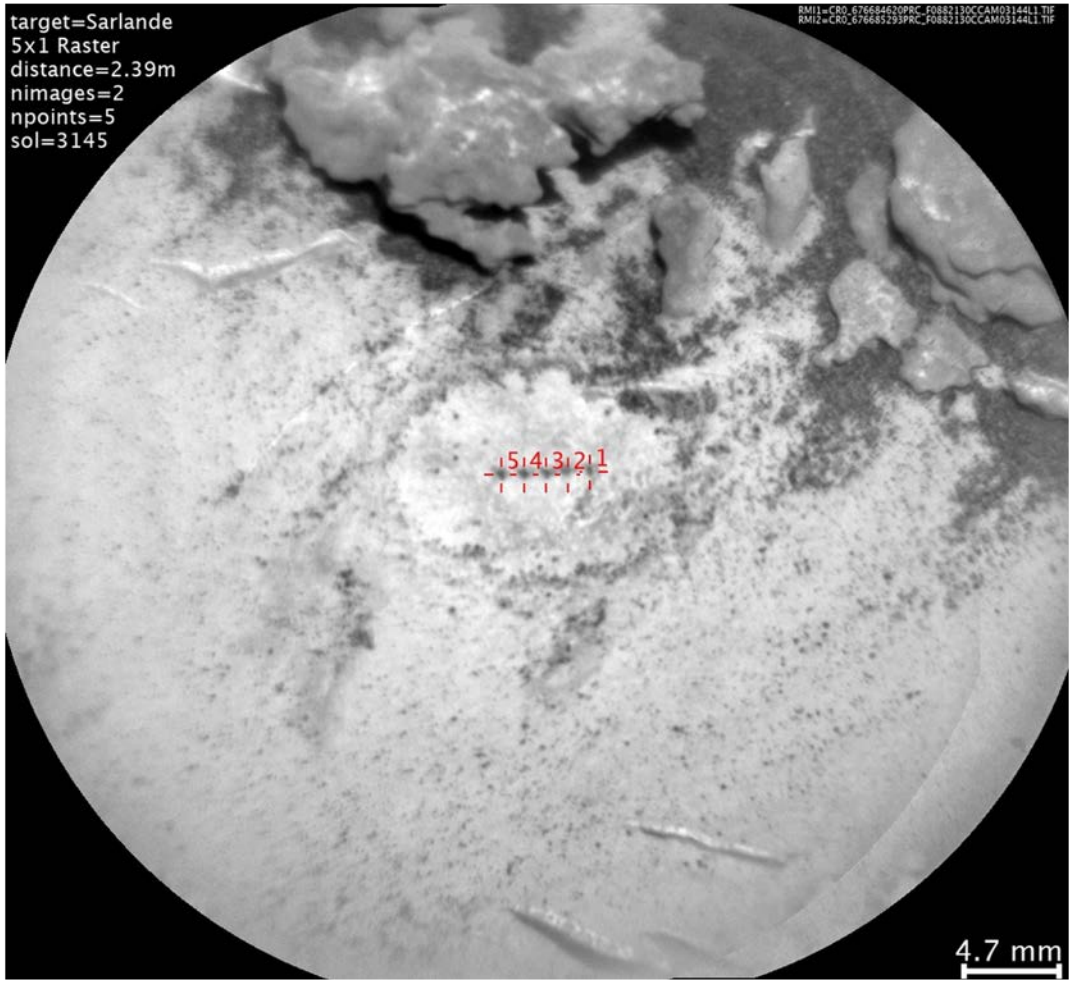


# Target: Sarlande

**Sol:** 3145
**Elev (m.):** -4064.13860442889
**CCAM Sequence ID:** CCAM03144

**Whole Target Classification:** Bedrock
**Lamination Strength:** Weakly Laminated
**Lamination Expression:** Primary Stratification
**Grain Visibility:** Below RMI Image Resolution
**Bedrock Appearance:** Dull
**Nodule Presence:** Occasional (~10% by Visual Inspection)
**Nodule Diameter:** Large (>3 mm)
**Nodule Resistance:** Protruding
**Fracture Presence:** Occasional (<10% by Visual Inspection)

| # | Feature | SiO2 (wt%) | TiO2 (wt%) | Al2O3 (wt%) | FeOT (wt%) | MgO (wt%) | CaO (wt%) | Na2O (wt%) | K2O (wt%) | Sum of Oxides (wt%) |
|---|---|---|---|---|---|---|---|---|---|---|
| 1 | Bedrock | 48.8 | 1.09 | 10.4 | 20.3 | 6.1 | 2.4 | 2.33 | 0.7 | 92.17 |
| 2 | Bedrock | 51.5 | 0.96 | 11.1 | 21.1 | 5.7 | 2.5 | 2.6 | 0.77 | 96.13 |
| 3 | Bedrock | 52.2 | 1.01 | 11.9 | 20.3 | 5.5 | 2.7 | 2.76 | 0.76 | 97.13 |
| 4 | Bedrock | 50.6 | 0.98 | 11.8 | 20.9 | 5.7 | 2.7 | 2.72 | 0.8 | 96.14 |
| 5 | Bedrock | 50.5 | 1.01 | 11.2 | 21.1 | 6.2 | 2.7 | 2.7 | 0.72 | 95.99 |



# Target: Lacropte

**Sol:** 3146
**Elev (m.):** -4059.76620649242
**CCAM Sequence ID:** CCAM01146

**Whole Target Classification:** Bedrock
**Lamination Strength:** Absent
**Lamination Expression:** Absent
**Grain Visibility:** Below RMI Image Resolution
**Bedrock Appearance:** Dull
**Nodule Presence:** Occasional (~10% by Visual Inspection)
**Nodule Diameter:** Large (>3 mm)
**Nodule Resistance:** Protruding
**Fracture Presence:** Common (~10-20% by Visual Inspection)

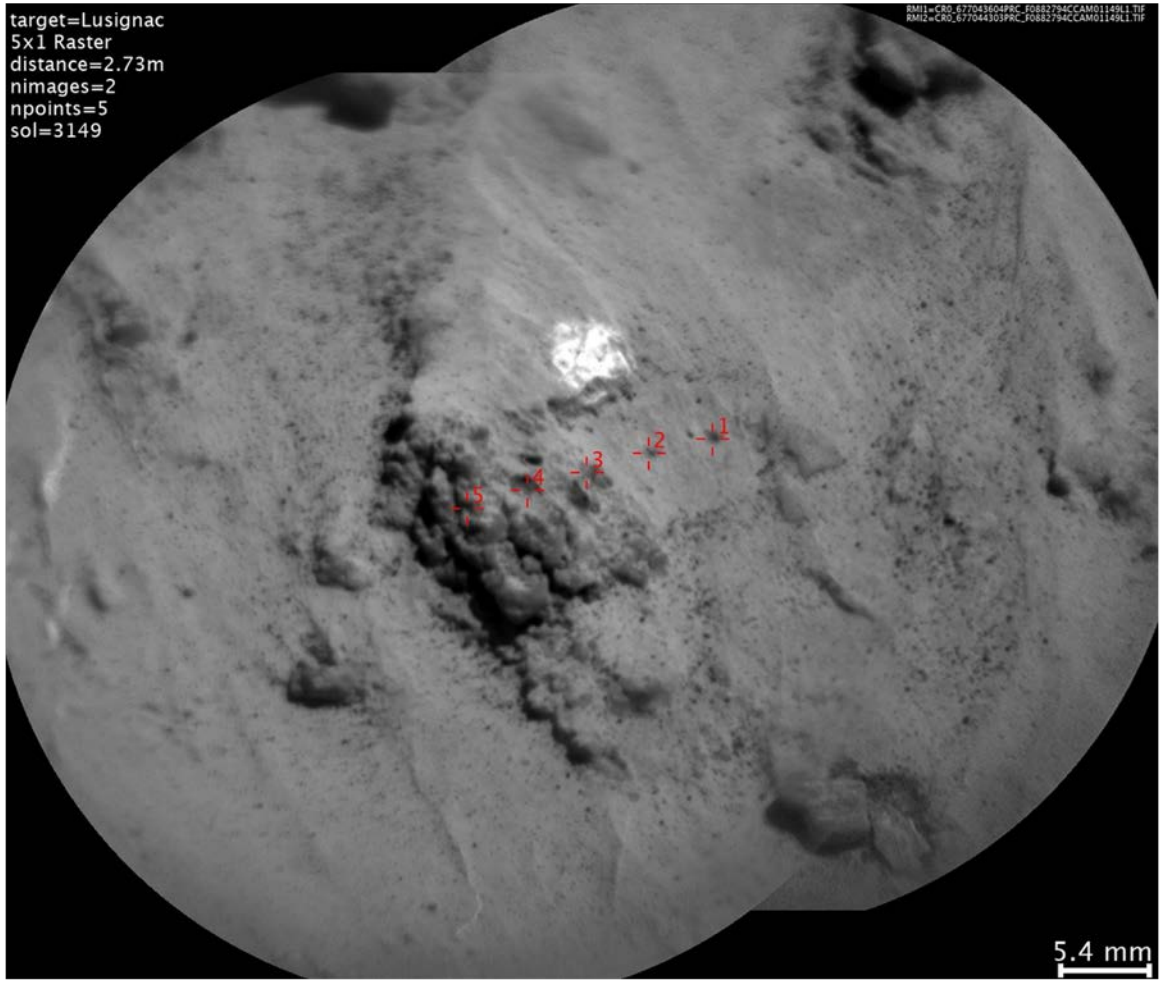
| # | Feature | SiO2 (wt%) | TiO2 (wt%) | Al2O3 (wt%) | FeOT (wt%) | MgO (wt%) | CaO (wt%) | Na2O (wt%) | K2O (wt%) | Sum of Oxides (wt%) |
|---|---|---|---|---|---|---|---|---|---|---|
| 1 | Bedrock | 48.9 | 0.96 | 9.6 | 21 | 7.7 | 2.3 | 2.34 | 0.7 | 93.42 |
| 2 | Bedrock | 42.5 | 0.78 | 8.1 | 15.6 | 3.3 | 14.3 | 1.55 | 0.49 | 86.65 |
| 3 | Bedrock | 50.6 | 1 | 10.5 | 21.2 | 6.4 | 2 | 2.38 | 0.67 | 94.85 |
| 4 | Bedrock | 46 | 0.84 | 9.3 | 17.2 | 3.9 | 10.5 | 1.97 | 0.58 | 90.3 |
| 5 | Bedrock | 55.2 | 1.01 | 12.1 | 18.7 | 4.8 | 3 | 2.87 | 0.93 | 98.47 |

# Target: Lusignac

**Sol:** 3149
**Elev (m.):** -4058.09102177112
**CCAM Sequence ID:** CCAM01149

**Whole Target Classification:** Bedrock
**Lamination Strength:** Absent
**Lamination Expression:** Absent
**Grain Visibility:** Below RMI Image Resolution
**Bedrock Appearance:** Dull
**Nodule Presence:** Common (~30% by Visual Inspection
**Nodule Diameter:** Large (>3 mm)
**Nodule Resistance:** Protruding
**Fracture Presence:** Common (~10-20% by Visual Inspection)

| # | Feature | SiO2 (wt%) | TiO2 (wt%) | Al2O3 (wt%) | FeOT (wt%) | MgO (wt%) | CaO (wt%) | Na2O (wt%) | K2O (wt%) | Sum of Oxides (wt%) |
|---|---|---|---|---|---|---|---|---|---|---|
| 1 | Bedrock | 51.3 | 0.96 | 12 | 20.2 | 4.6 | 2.3 | 3.33 | 0.81 | 95.52 |
| 2 | Bedrock | 49.8 | 0.98 | 11.4 | 20.6 | 5.5 | 2.2 | 2.72 | 0.75 | 93.96 |
| 3 | Nodule | 39.2 | 0.83 | 7.3 | 19.2 | 14.9 | 4.8 | 1.94 | 0.27 | 88.49 |
| 4 | Nodule | 38.3 | 0.83 | 7.6 | 20.6 | 14.5 | 4.7 | 1.57 | 0.28 | 88.44 |
| 5 | Nodule | 38.6 | 0.73 | 8 | 19 | 6.8 | 11.4 | 1.59 | 0.37 | 86.46 |

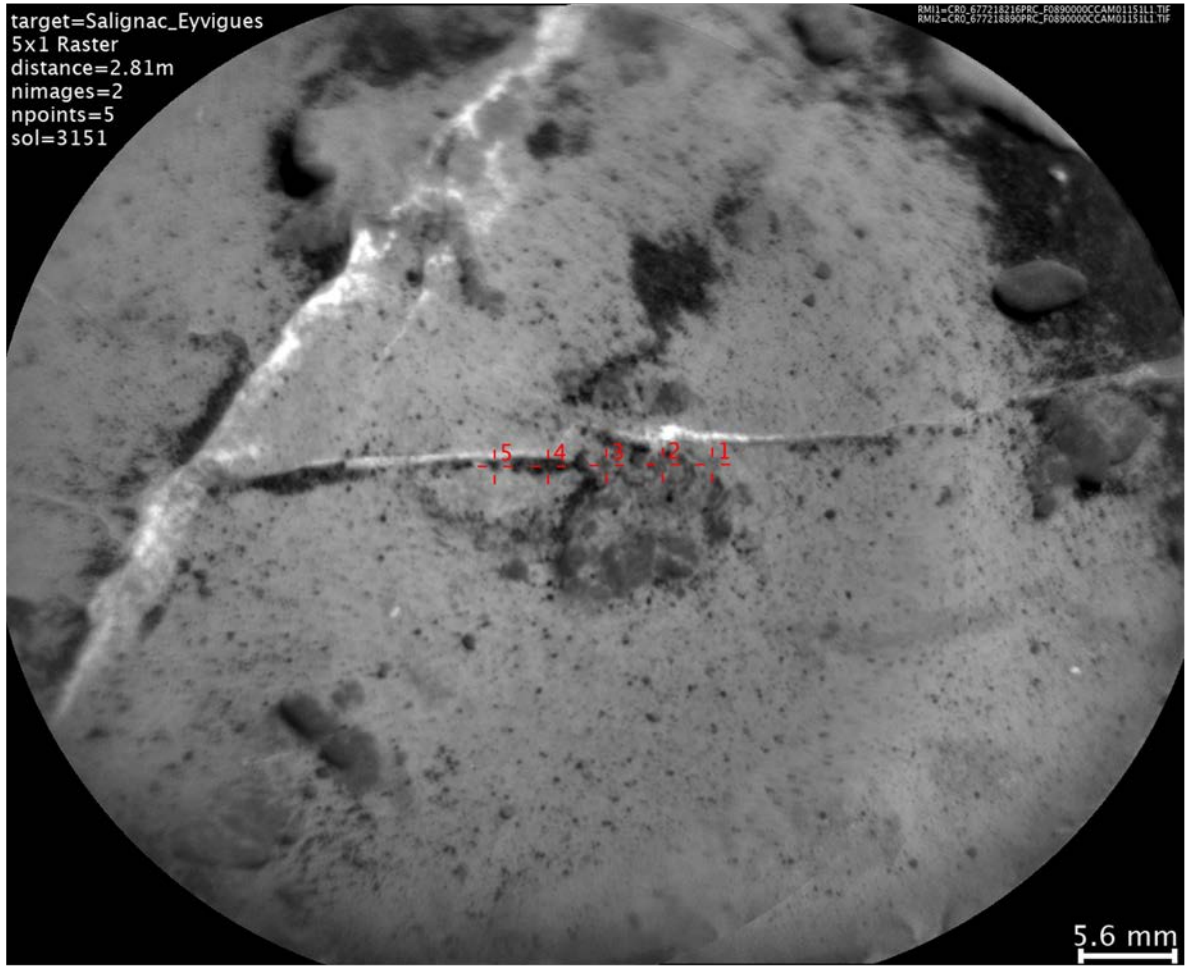


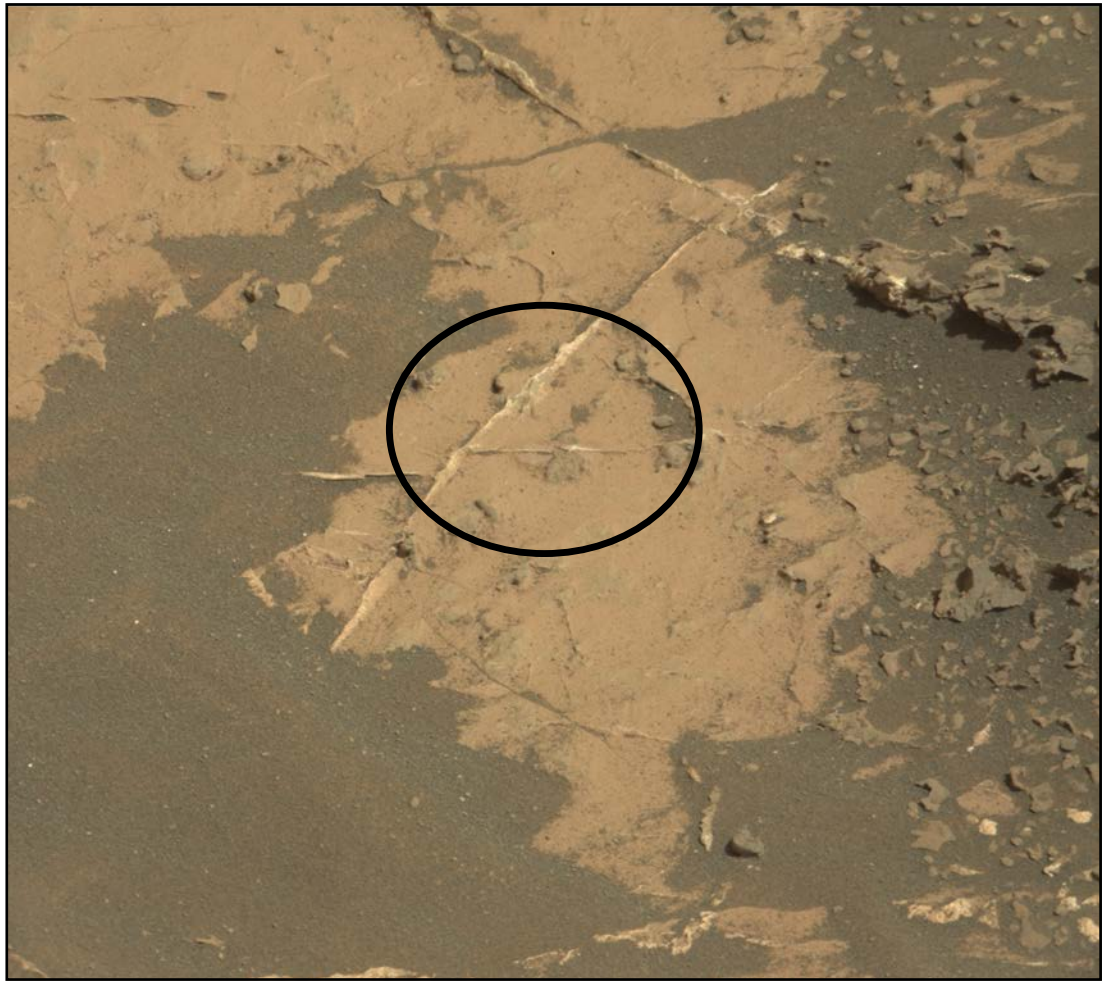
# Target: Salignac_Eyvigues

**Sol:** 3151
**Elev (m.):** -4056.33251193789
**CCAM Sequence ID:** CCAM01151

**Whole Target Classification:** Bedrock
**Lamination Strength:** Absent
**Lamination Expression:** Absent
**Grain Visibility:** Below RMI Image Resolution
**Bedrock Appearance:** Dull
**Nodule Presence:** Occasional (~10% by Visual Inspection)
**Nodule Diameter:** Large (>3 mm)
**Nodule Resistance:** Protruding
**Fracture Presence:** Common (~10-20% by Visual Inspection)

| # | Feature | SiO2 (wt%) | TiO2 (wt%) | Al2O3 (wt%) | FeOT (wt%) | MgO (wt%) | CaO (wt%) | Na2O (wt%) | K2O (wt%) | Sum of Oxides (wt%) |
|---|---|---|---|---|---|---|---|---|---|---|
| 1 | Nodule | 30.8 | 0.61 | 5.6 | 11.5 | 2.3 | 24 | 0.74 | 0.13 | 75.66 |
| 2 | Nodule | 40.8 | 0.84 | 9.1 | 20 | 17.3 | 1.5 | 2.07 | 0.32 | 91.87 |
| 3 | Nodule | 40.7 | 0.81 | 8.3 | 20.8 | 5.4 | 11 | 1.7 | 0.44 | 89.11 |
| 4 | Bedrock | 48.4 | 1.03 | 12.8 | 20.2 | 5.5 | 2.5 | 2.45 | 0.56 | 93.45 |
| 5 | Bedrock | 49.5 | 1.01 | 11.6 | 20.8 | 5.3 | 2.2 | 2.52 | 0.65 | 93.58 |



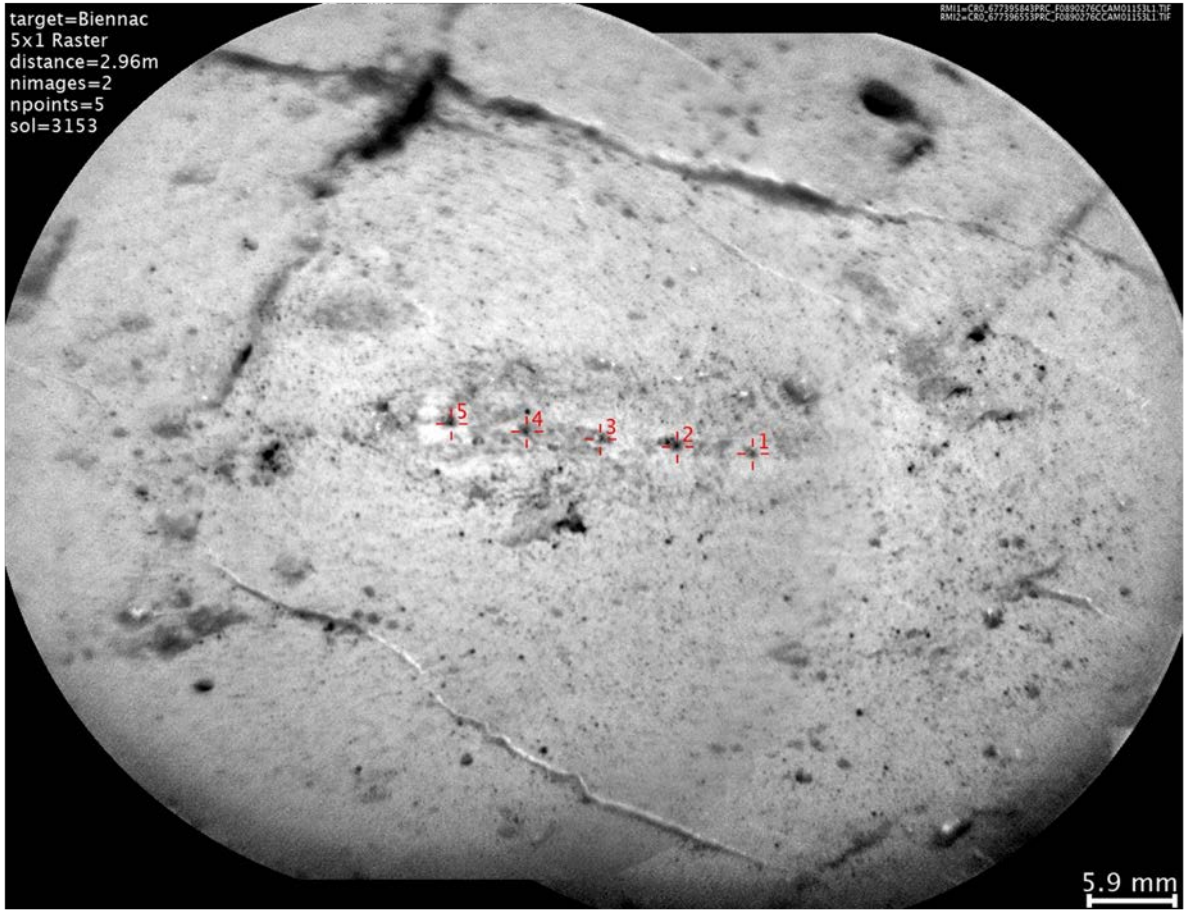



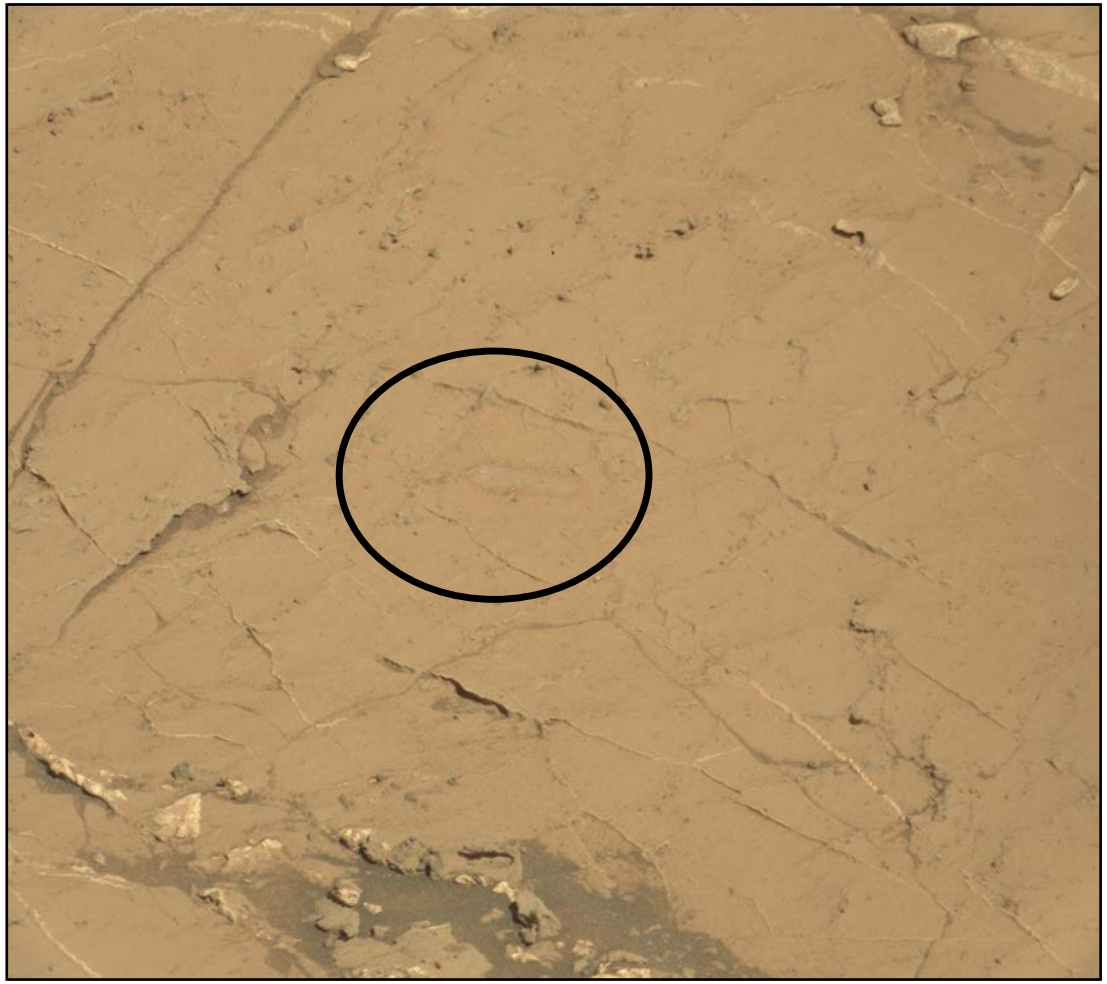
# Target: Biennac

**Sol:** 3153
**Elev (m.):** -4053.54114561331
**CCAM Sequence ID:** CCAM01153

**Whole Target Classification:** Bedrock
**Lamination Strength:** Absent
**Lamination Expression:** Absent
**Grain Visibility:** Below RMI Image Resolution
**Bedrock Appearance:** Dull
**Nodule Presence:** Occasional (~10% by Visual Inspection)
**Nodule Diameter:** Medium (1 - 3 mm)
**Nodule Resistance:** Protruding
**Fracture Presence:** Common (~10-20% by Visual Inspection)

| # | Feature | SiO2 (wt%) | TiO2 (wt%) | Al2O3 (wt%) | FeOT (wt%) | MgO (wt%) | CaO (wt%) | Na2O (wt%) | K2O (wt%) | Sum of Oxides (wt%) |
|---|---|---|---|---|---|---|---|---|---|---|
| 1 | Bedrock | 52.3 | 0.99 | 12.9 | 21.9 | 4.7 | 2.5 | 2.89 | 0.94 | 99.15 |
| 2 | Bedrock | 51.4 | 0.96 | 12.6 | 21.6 | 5.1 | 2.7 | 2.8 | 0.82 | 97.91 |
| 3 | Bedrock | 51.6 | 1.03 | 12.4 | 21.9 | 5 | 2.4 | 2.93 | 0.89 | 98.09 |
| 4 | Bedrock | 52 | 1.02 | 12.9 | 21.7 | 4.8 | 2.5 | 2.7 | 0.76 | 98.49 |



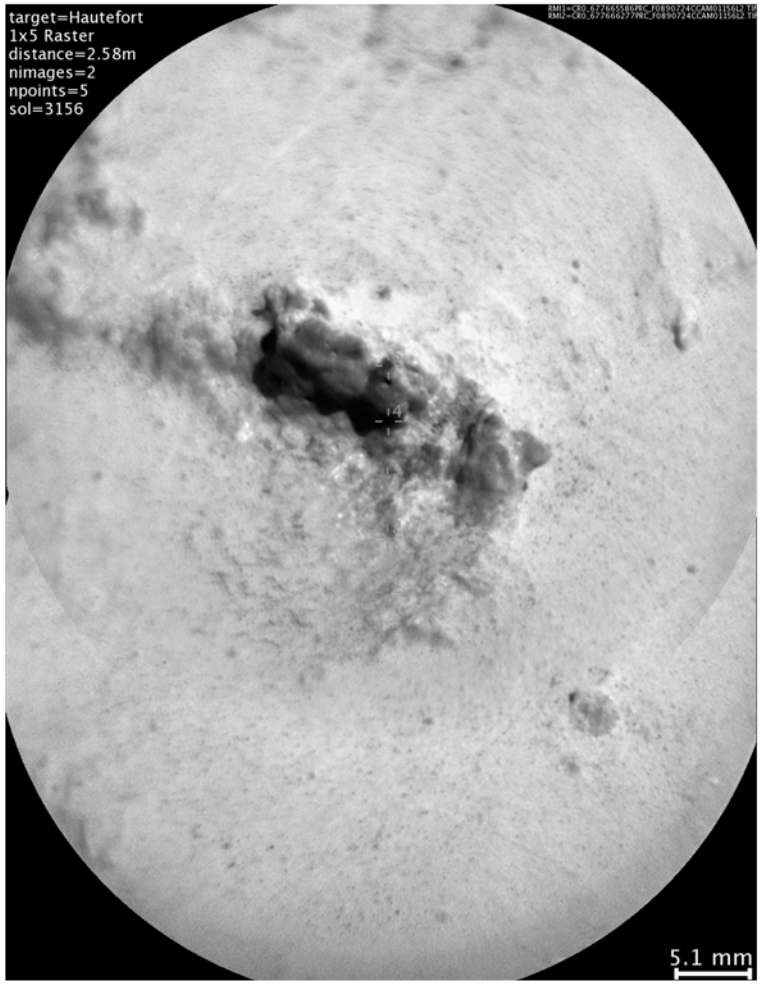



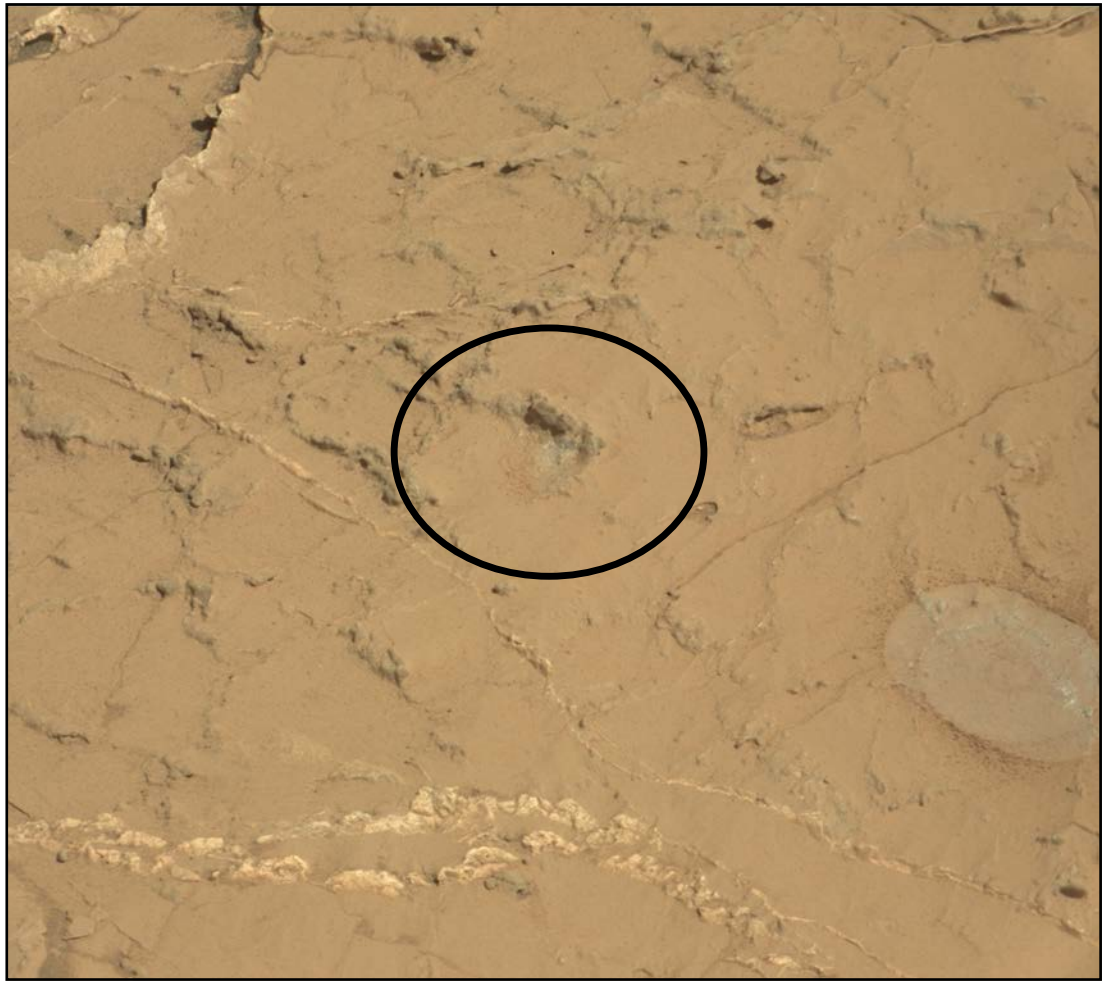
# Target: Hautefort

**Sol:** 3156
**Elev (m.):** -4049.40913087823
**CCAM Sequence ID:** CCAM01156

**Whole Target Classification:** Bedrock
**Lamination Strength:** Absent
**Lamination Expression:** Absent
**Grain Visibility:** Below RMI Image Resolution
**Bedrock Appearance:** Dull
**Nodule Presence:** Common (~30% by Visual Inspection
**Nodule Diameter:** Large (>3 mm)
**Nodule Resistance:** Protruding
**Fracture Presence:** Pervasive (>20% by Visual Inspection)

| # | Feature | SiO2 (wt%) | TiO2 (wt%) | Al2O3 (wt%) | FeOT (wt%) | MgO (wt%) | CaO (wt%) | Na2O (wt%) | K2O (wt%) | Sum of Oxides (wt%) |
|---|---|---|---|---|---|---|---|---|---|---|
| 1 | Vein or Fracture | 37.4 | 0.71 | 6.4 | 16.9 | 5.9 | 12.8 | 2.92 | 0.2 | 83.19 |
| 2 | Vein or Fracture | 37.2 | 0.69 | 7 | 15.3 | 5.3 | 16.5 | 1.22 | 0.3 | 83.49 |
| 3 | Vein or Fracture | 44.2 | 0.79 | 8.3 | 18.5 | 4.6 | 8.9 | 1.73 | 0.55 | 87.61 |
| 4 | Nodule | 28.5 | 0.66 | 5.5 | 23.6 | 10.7 | 8.1 | 1.06 | 0.15 | 78.26 |
| 5 | Nodule | 37 | 0.79 | 6.7 | 22.5 | 16.7 | 1 | 1.54 | 0.23 | 86.52 |



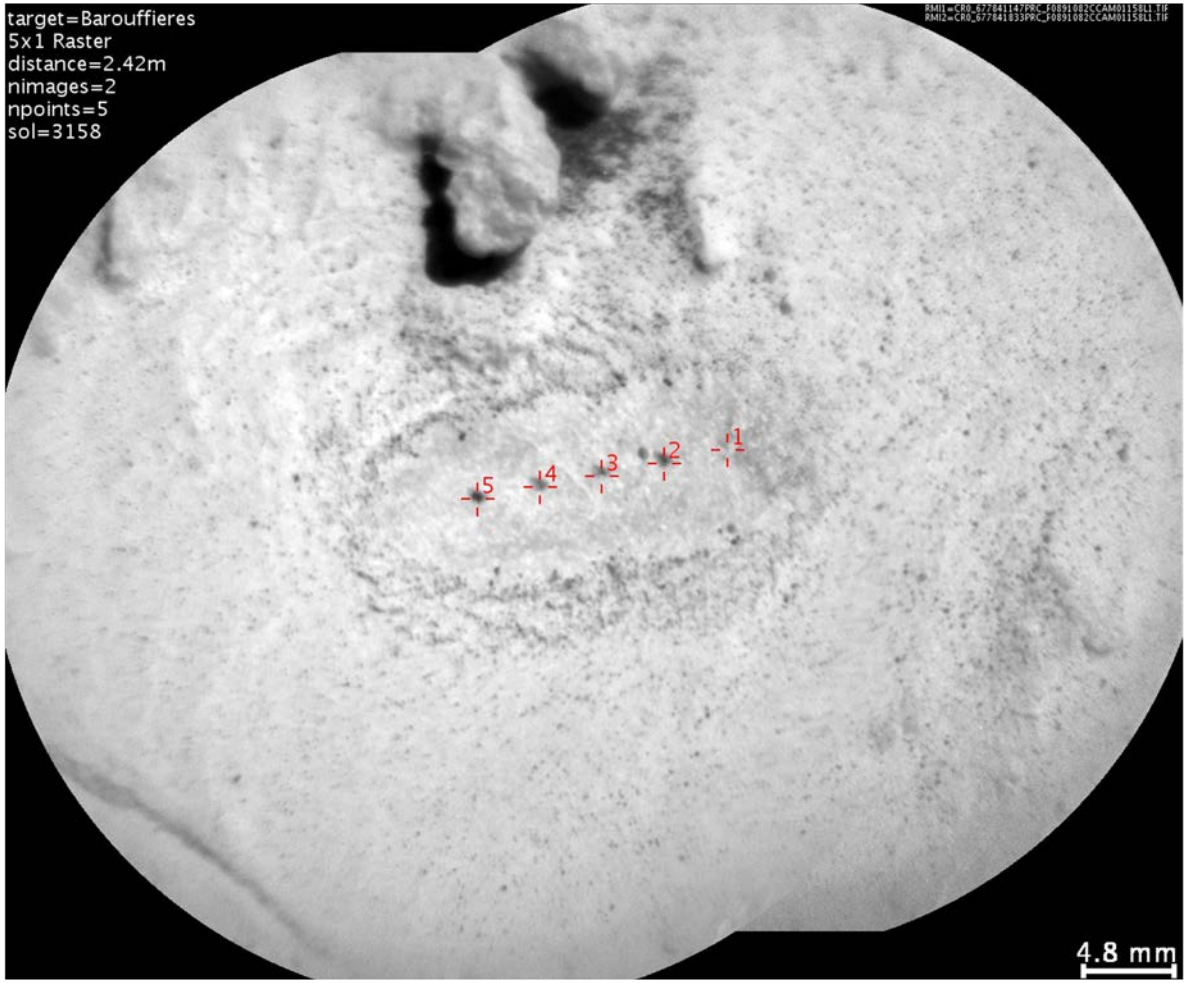



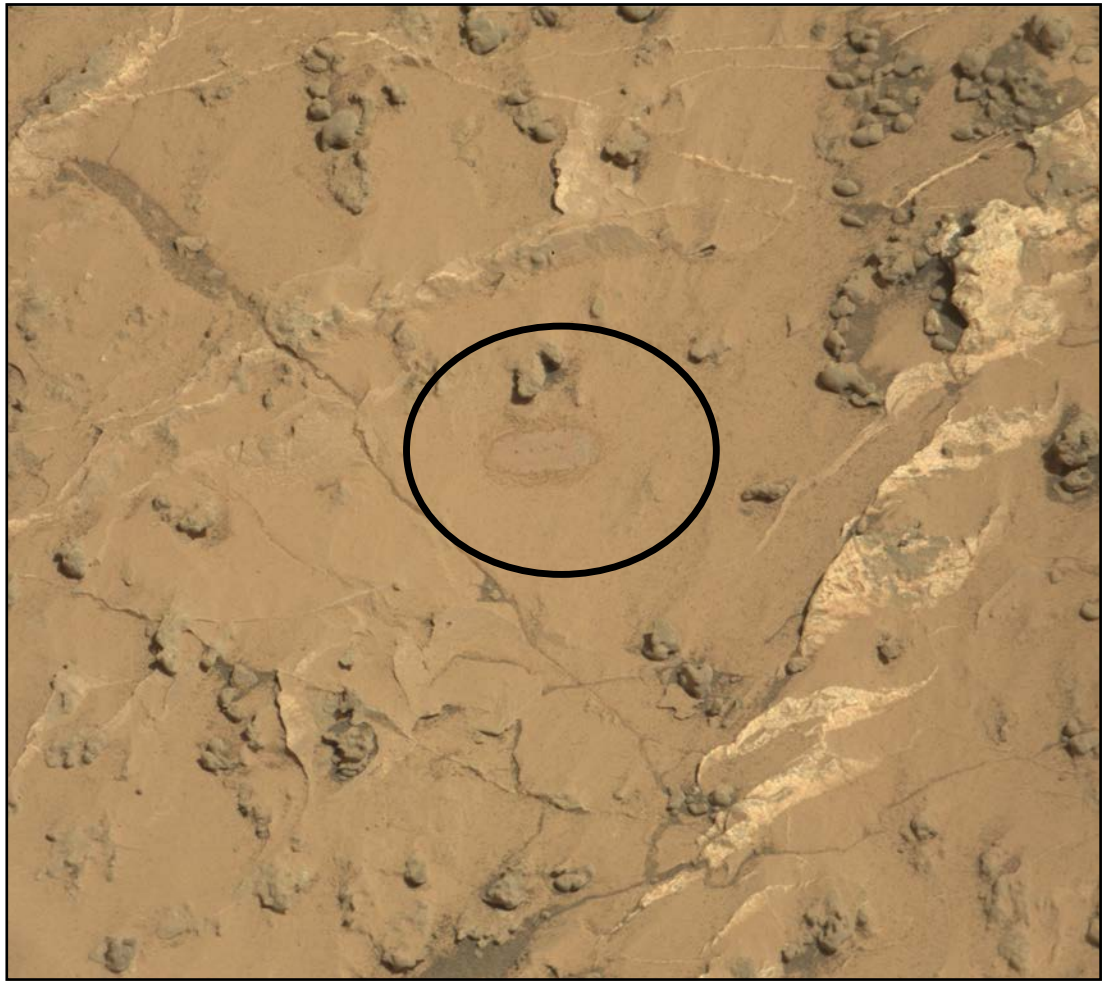
# Target: Barouffieres

**Sol:** 3158
**Elev (m.):** -4046.13090432216
**CCAM Sequence ID:** CCAM01158

**Whole Target Classification:** Bedrock
**Lamination Strength:** Absent
**Lamination Expression:** Absent
**Grain Visibility:** Below RMI Image Resolution
**Bedrock Appearance:** Dull
**Nodule Presence:** Common (~30% by Visual Inspection
**Nodule Diameter:** Large (>3 mm)
**Nodule Resistance:** Protruding
**Fracture Presence:** Pervasive (>20% by Visual Inspection)

| # | Feature | SiO2 (wt%) | TiO2 (wt%) | Al2O3 (wt%) | FeOT (wt%) | MgO (wt%) | CaO (wt%) | Na2O (wt%) | K2O (wt%) | Sum of Oxides (wt%) |
|---|---|---|---|---|---|---|---|---|---|---|
| 1 | Bedrock | 35.8 | 0.71 | 6.5 | 14.2 | 3 | 18.5 | 1.03 | 0.29 | 79.96 |
| 2 | Bedrock | 50.7 | 0.96 | 11.2 | 20.9 | 5.5 | 2.1 | 2.59 | 0.69 | 94.64 |
| 3 | Bedrock | 43.6 | 0.82 | 8 | 17.1 | 18.4 | 1.5 | 1.64 | 0.37 | 91.33 |
| 4 | Bedrock | 51.9 | 1.11 | 11.8 | 21.6 | 4.8 | 2.5 | 2.54 | 0.77 | 96.94 |
| 5 | Bedrock | 51.2 | 0.99 | 11.1 | 21.1 | 4.9 | 2.1 | 2.45 | 0.81 | 94.66 |



# Target: La_Lizonne

**Sol:** 3160
**Elev (m.):** -4044.99597379551
**CCAM Sequence ID:** CCAM01160

**Whole Target Classification:** Bedrock
**Lamination Strength:** Absent
**Lamination Expression:** Absent
**Grain Visibility:** Below RMI Image Resolution
**Bedrock Appearance:** Dull
**Nodule Presence:** Pervasive (>50% by Visual Inspection)
**Nodule Diameter:** Large (>3 mm)
**Nodule Resistance:** Protruding
**Fracture Presence:** Pervasive (>20% by Visual Inspection)

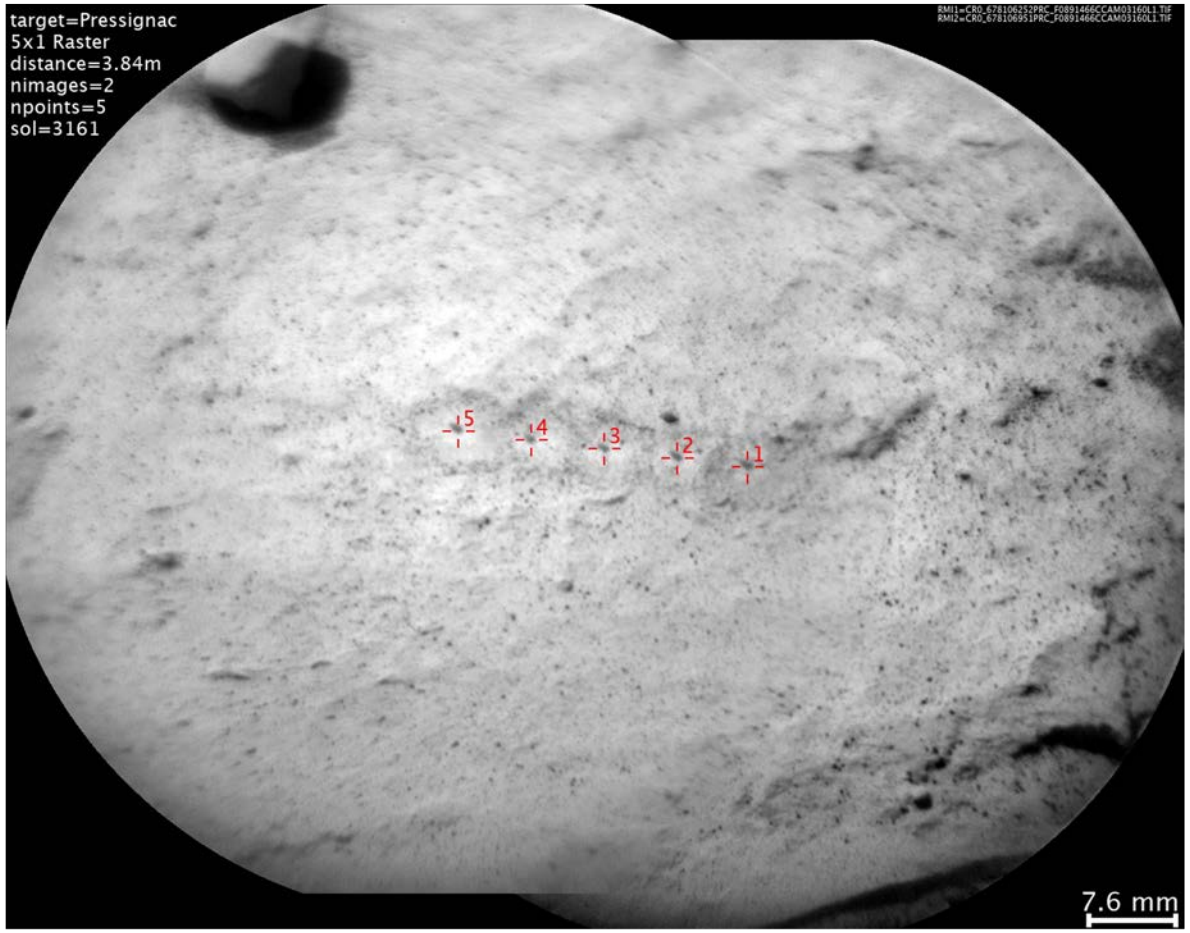
| # | Feature | SiO2 (wt%) | TiO2 (wt%) | Al2O3 (wt%) | FeOT (wt%) | MgO (wt%) | CaO (wt%) | Na2O (wt%) | K2O (wt%) | Sum of Oxides (wt%) |
|---|---|---|---|---|---|---|---|---|---|---|
| 1 | Nodule | 41.9 | 0.8 | 8.5 | 20.1 | 16.9 | 1.2 | 1.79 | 0.51 | 91.68 |
| 2 | Nodule | 42.6 | 0.78 | 8.3 | 20.7 | 14.5 | 3.3 | 2.23 | 0.55 | 93.04 |
| 3 | Sand | 46.8 | 0.84 | 10.4 | 20.5 | 4.4 | 8.5 | 2.29 | 0.81 | 94.52 |
| 4 | Vein or Fracture | 45.9 | 0.81 | 10.5 | 18.9 | 3.9 | 10.7 | 2.13 | 0.76 | 93.57 |
| 5 | Vein or Fracture | 34.2 | 0.65 | 7.1 | 15.3 | 2.7 | 20.9 | 1.05 | 0.35 | 82.24 |

# Target: Pressignac

**Sol:** 3160
**Elev (m.):** -4045.16391171475
**CCAM Sequence ID:** CCAM03160

**Whole Target Classification:** Bedrock
**Lamination Strength:** Absent
**Lamination Expression:** Absent
**Grain Visibility:** Below RMI Image Resolution
**Bedrock Appearance:** Dull
**Nodule Presence:** Absent
**Nodule Diameter:** Medium (1 - 3 mm)
**Nodule Resistance:** Protruding
**Fracture Presence:** Occasional (<10% by Visual Inspection)

| # | Feature | SiO2 (wt%) | TiO2 (wt%) | Al2O3 (wt%) | FeOT (wt%) | MgO (wt%) | CaO (wt%) | Na2O (wt%) | K2O (wt%) | Sum of Oxides (wt%) |
|---|---|---|---|---|---|---|---|---|---|---|
| 1 | Bedrock | 43.3 | 0.76 | 10.1 | 21.4 | 3.5 | 9.6 | 2.04 | 0.89 | 91.5 |
| 2 | Bedrock | 51.9 | 0.89 | 13.6 | 20.2 | 4.6 | 2.1 | 3.23 | 1.59 | 98.15 |
| 3 | Bedrock | 52 | 1 | 13.1 | 19.9 | 4.5 | 2.1 | 3.1 | 1.42 | 97.08 |
| 4 | Bedrock | 49.8 | 0.89 | 12.3 | 20.9 | 4.6 | 5.3 | 2.85 | 1.35 | 98.08 |



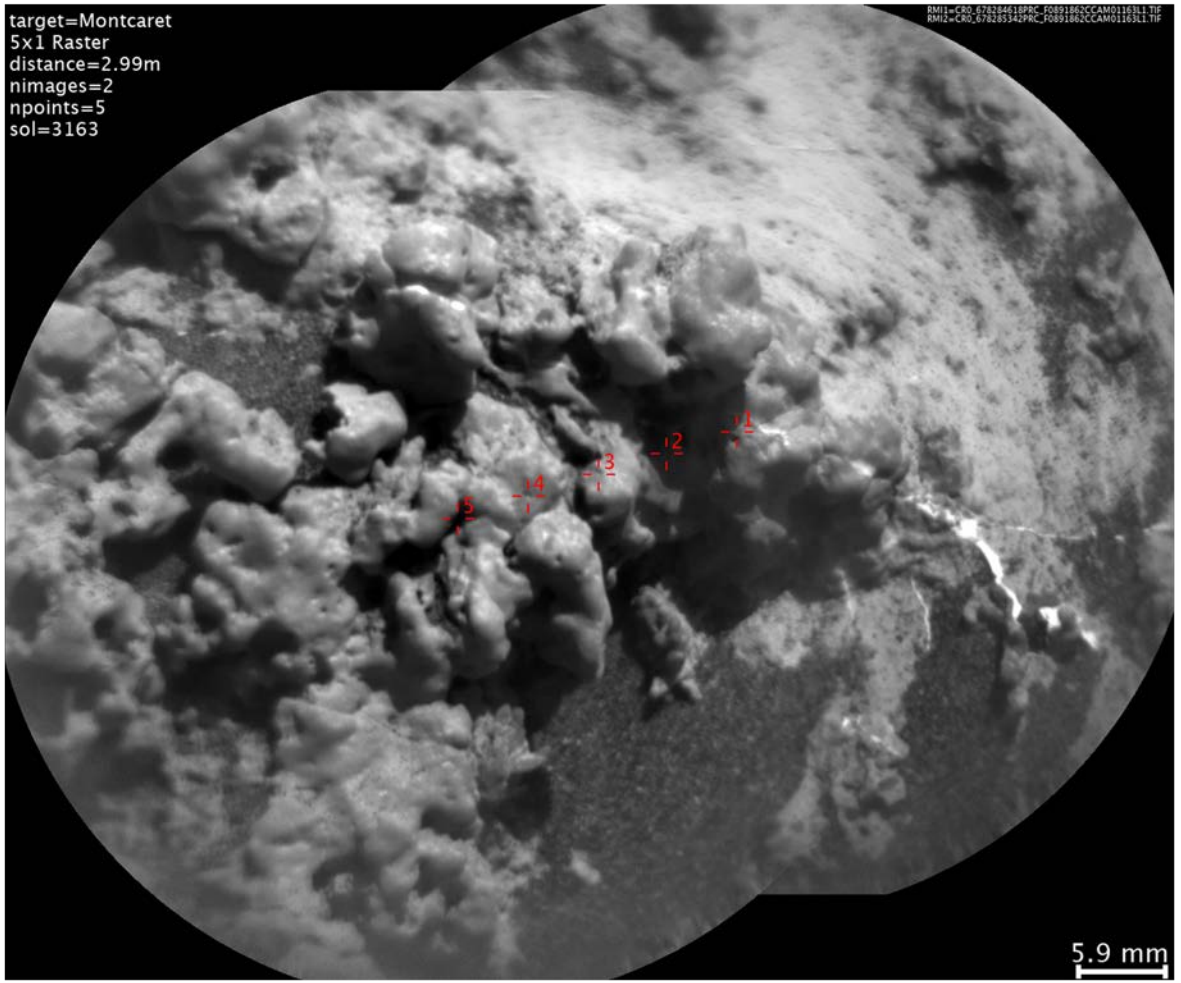
# Target: Montcaret

**Sol:** 3163
**Elev (m.):** -4042.458654

**CCAM Sequence ID:** CCAM01163

**Whole Target Classification:** Bedrock
**Lamination Strength:** Absent
**Lamination Expression:** Absent
**Grain Visibility:** Below RMI Image Resolution
**Bedrock Appearance:** Dull
**Nodule Presence:** Pervasive (>50% by Visual Inspection)
**Nodule Diameter:** Large (>3 mm)
**Nodule Resistance:** Protruding
**Fracture Presence:** Occasional (<10% by Visual Inspection)

| # | Feature | SiO2 (wt%) | TiO2 (wt%) | Al2O3 (wt%) | FeOT (wt%) | MgO (wt%) | CaO (wt%) | Na2O (wt%) | K2O (wt%) | Sum of Oxides (wt%) |
|---|---|---|---|---|---|---|---|---|---|---|
| 1 | Nodule | 38.8 | 0.88 | 7.4 | 20 | 17.9 | 2.9 | 1.6 | 0.48 | 89.98 |
| 2 | Nodule | 35 | 0.7 | 6.6 | 15.7 | 5 | 19.2 | 1.02 | 0.34 | 83.5 |
| 3 | Nodule | 42 | 0.89 | 7.5 | 19.4 | 19.9 | 1.4 | 1.75 | 0.6 | 93.46 |
| 4 | Nodule | 41.6 | 0.92 | 8 | 19.7 | 19.3 | 1.3 | 1.89 | 0.73 | 93.45 |
| 5 | Nodule | 45.1 | 0.69 | 9.4 | 20.6 | 14.9 | 1.7 | 2.11 | 0.63 | 95.11 |



# Target: aegis_post_3164a

**Sol:** 3164
**Elev (m.):** -4041.075442

**CCAM Sequence ID:** CCAM15905

**Whole Target Classification:** Bedrock
**Lamination Strength:** Absent
**Lamination Expression:** Absent
**Grain Visibility:** Below RMI Image Resolution
**Bedrock Appearance:** Dull
**Nodule Presence:** Pervasive (>50% by Visual Inspection)
**Nodule Diameter:** Large (>3 mm)
**Nodule Resistance:** Protruding
**Fracture Presence:** Occasional (<10% by Visual Inspection)

| # | Feature | SiO2 (wt%) | TiO2 (wt%) | Al2O3 (wt%) | FeOT (wt%) | MgO (wt%) | CaO (wt%) | Na2O (wt%) | K2O (wt%) | Sum of Oxides (wt%) |
|---|---|---|---|---|---|---|---|---|---|---|
| 1 | Sand | 47.5 | 0.94 | 9.6 | 19.8 | 12.2 | 1.9 | 2.04 | 0.65 | 94.56 |
| 2 | Sand | 48.5 | 0.96 | 9.5 | 19.9 | 10.7 | 2.2 | 1.99 | 0.57 | 94.28 |
| 3 | Sand | 42.2 | 0.97 | 9.5 | 17.5 | 6.5 | 12 | 1.86 | 0.41 | 90.94 |
| 4 | Bedrock | 51.4 | 1.07 | 10.9 | 19.9 | 4.6 | 2.3 | 2.38 | 0.79 | 93.37 |
| 5 | Bedrock | 35.4 | 0.62 | 6.8 | 12.3 | 2.5 | 20.9 | 1.03 | 0.3 | 79.87 |

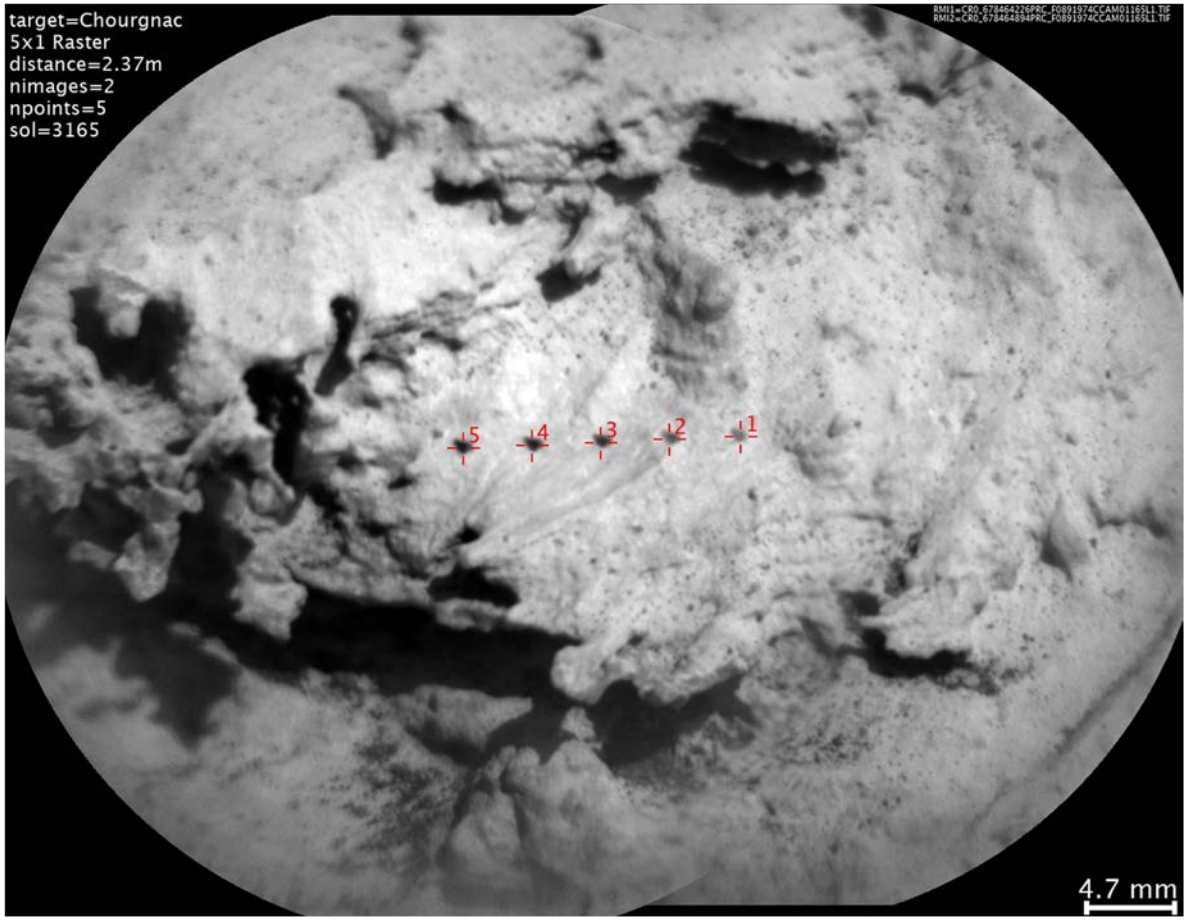
# Target: Chourgnac

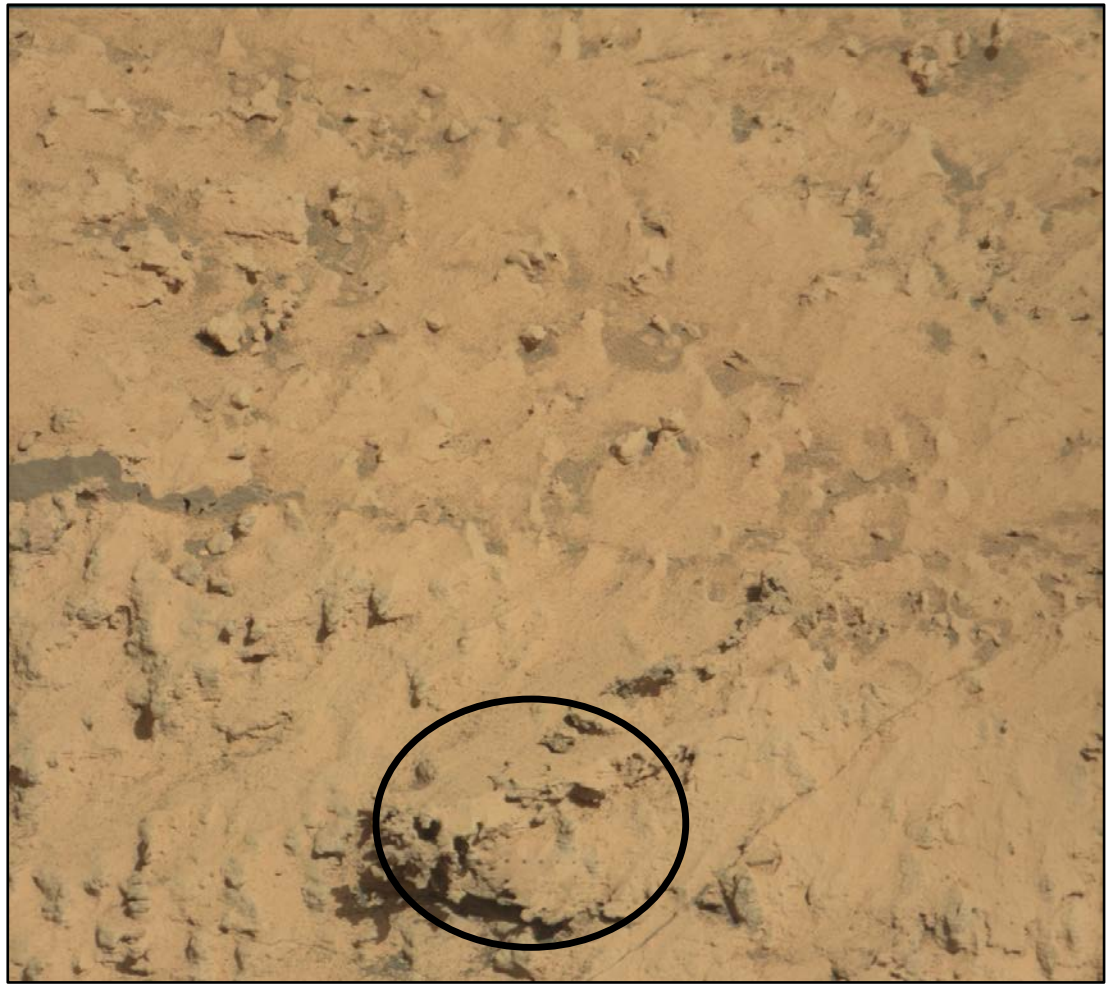
**Sol:** 3165
**Elev (m.):** -4040.695062

**CCAM Sequence ID:** CCAM01165

**Whole Target Classification:** Bedrock
**Lamination Strength:** Absent
**Lamination Expression:** Absent
**Grain Visibility:** Below RMI Image Resolution
**Bedrock Appearance:** Dull
**Nodule Presence:** Occasional (~10% by Visual Inspection)
**Nodule Diameter:** Medium (1 - 3 mm)
**Nodule Resistance:** Protruding
**Fracture Presence:** Absent

| # | Feature | SiO2 (wt%) | TiO2 (wt%) | Al2O3 (wt%) | FeOT (wt%) | MgO (wt%) | CaO (wt%) | Na2O (wt%) | K2O (wt%) | Sum of Oxides (wt%) |
|---|---|---|---|---|---|---|---|---|---|---|
| 1 | Bedrock | 43.1 | 0.88 | 8.6 | 19.8 | 4.2 | 9.1 | 1.91 | 0.76 | 88.41 |
| 2 | Bedrock | 50.2 | 0.92 | 10.4 | 18.5 | 4.2 | 1.9 | 2.22 | 0.62 | 88.88 |
| 3 | Bedrock | 46.7 | 0.86 | 8.8 | 22.3 | 3.5 | 1.4 | 2 | 0.52 | 86.19 |



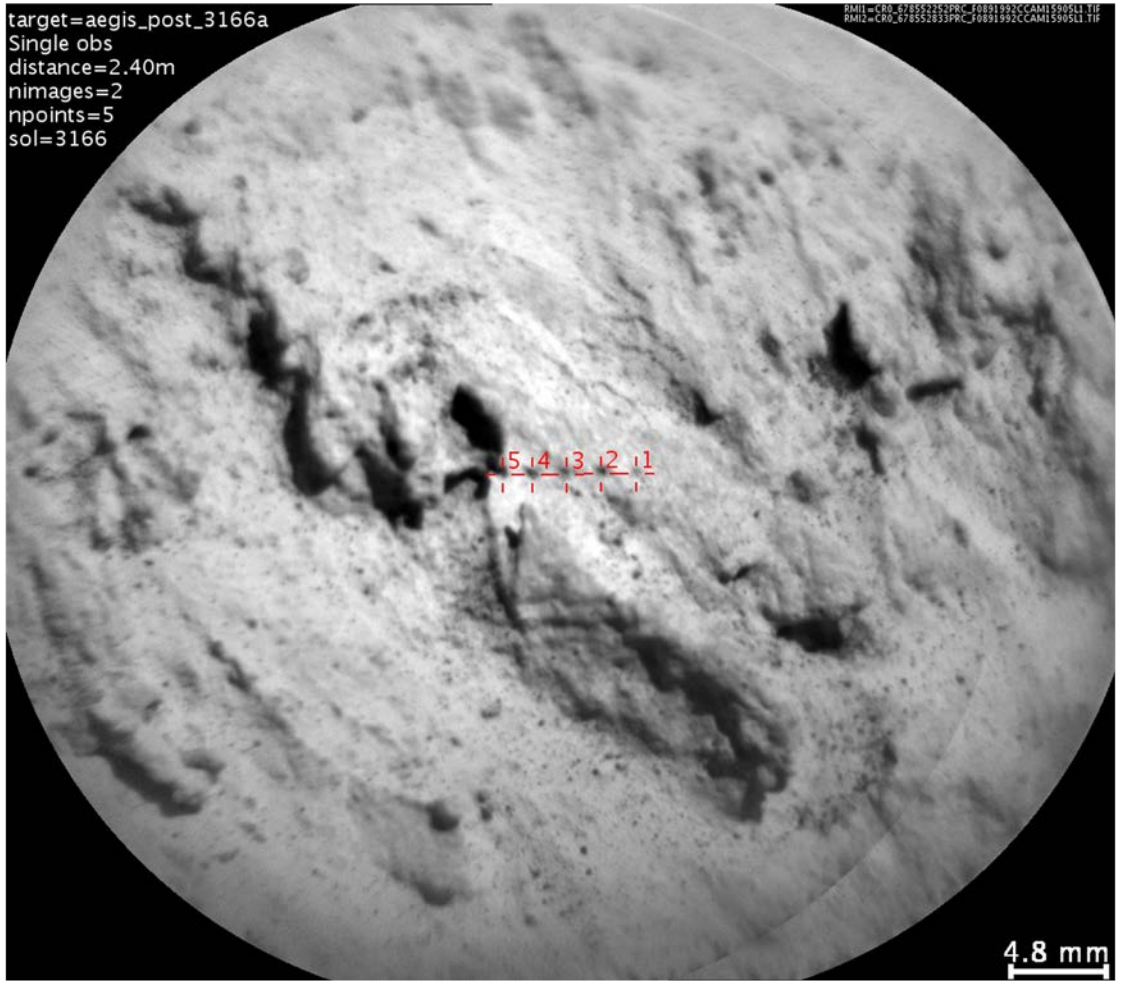



# Target: aegis_post_3166a

**Sol:** 3166
**Elev (m.):** -4040.861437

**CCAM Sequence ID:** CCAM15905

**Whole Target Classification:** Bedrock
**Lamination Strength:** Weakly Laminated
**Lamination Expression:** Primary Stratification
**Grain Visibility:** Below RMI Image Resolution
**Bedrock Appearance:** Dull
**Nodule Presence:** Occasional (~10% by Visual Inspection)
**Nodule Diameter:** Medium (1 - 3 mm)
**Nodule Resistance:** Protruding
**Fracture Presence:** Absent




| # | Feature | SiO2 (wt%) | TiO2 (wt%) | Al2O3 (wt%) | FeOT (wt%) | MgO (wt%) | CaO (wt%) | Na2O (wt%) | K2O (wt%) | Sum of Oxides (wt%) |
|---|---|---|---|---|---|---|---|---|---|---|
| 1 | Bedrock | 42.5 | 0.75 | 7.6 | 16.9 | 7.7 | 10.1 | 1.46 | 0.44 | 87.43 |
| 2 | Bedrock | 49.4 | 0.94 | 11.4 | 20.6 | 7 | 2.7 | 2.35 | 0.69 | 95.09 |
| 3 | Bedrock | 49.2 | 0.92 | 9.7 | 18.7 | 9.4 | 2.1 | 2.31 | 0.77 | 93.06 |
| 4 | Bedrock | 42.5 | 0.87 | 8.6 | 22.6 | 5.5 | 3.7 | 1.85 | 0.57 | 86.26 |
| 5 | Bedrock | 47.7 | 0.81 | 10.7 | 19.9 | 6.2 | 6.4 | 1.98 | 0.49 | 94.17 |

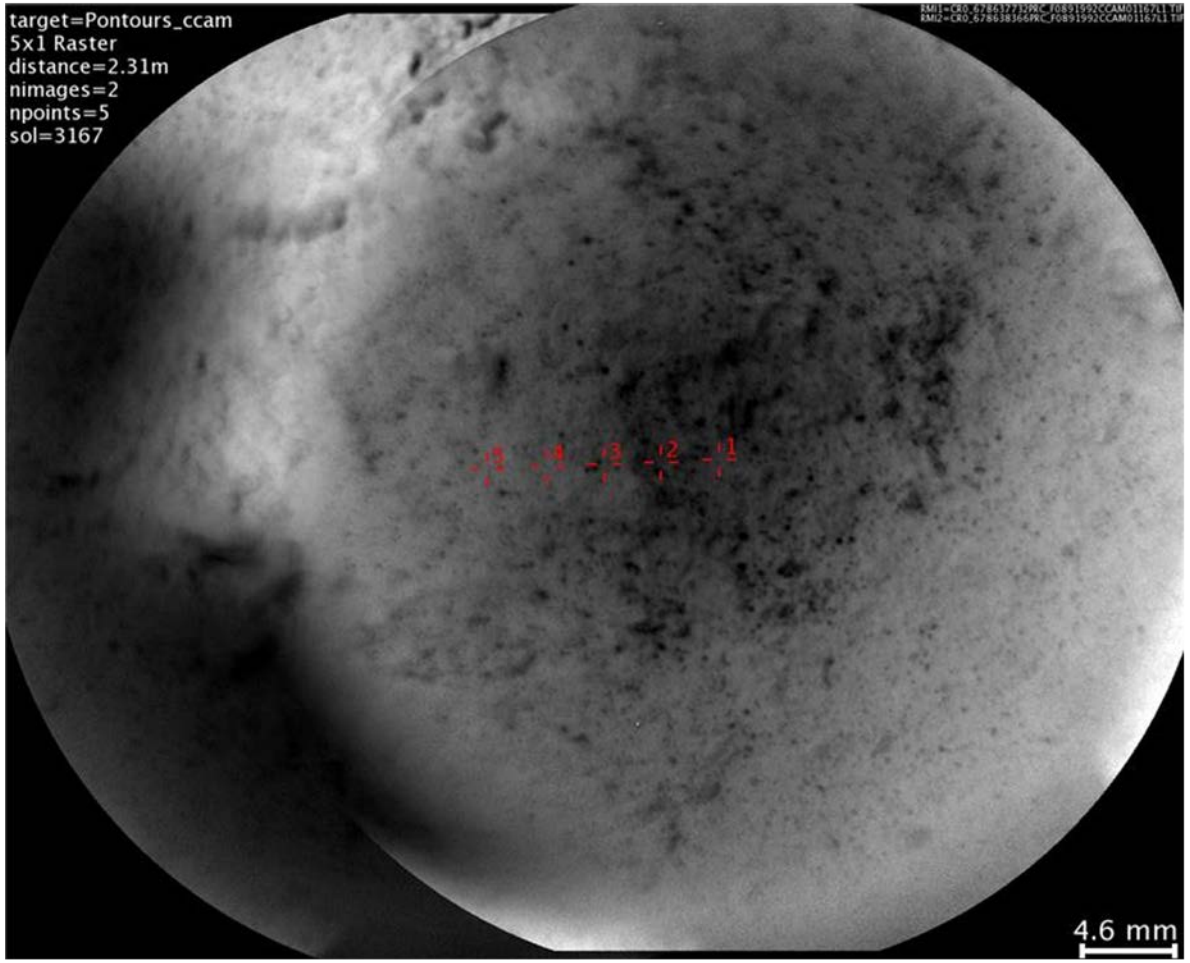
# Target: Pontours_ccam

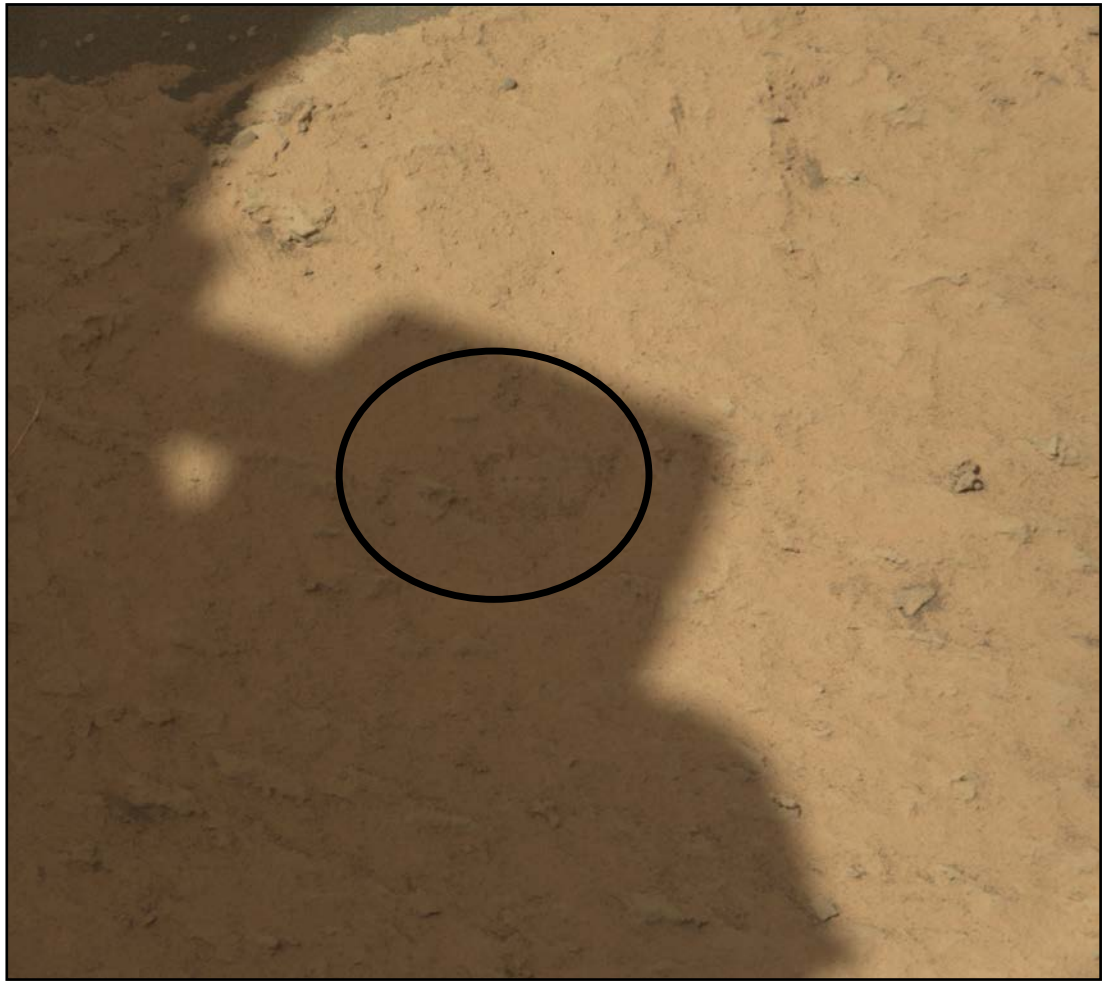
**Sol:** 3167
**Elev (m.):** -4041.112476

**CCAM Sequence ID:** CCAM01167

**Whole Target Classification:** Bedrock
**Lamination Strength:** Weakly Laminated
**Lamination Expression:** Primary Stratification
**Grain Visibility:** Below RMI Image Resolution
**Bedrock Appearance:** Dull
**Nodule Presence:** Occasional (~10% by Visual Inspection)
**Nodule Diameter:** Medium (1 - 3 mm)
**Nodule Resistance:** Protruding
**Fracture Presence:** Absent

| # | Feature | SiO2 (wt%) | TiO2 (wt%) | Al2O3 (wt%) | FeOT (wt%) | MgO (wt%) | CaO (wt%) | Na2O (wt%) | K2O (wt%) | Sum of Oxides (wt%) |
|---|---|---|---|---|---|---|---|---|---|---|
| 1 | Bedrock | 45.9 | 0.9 | 9.5 | 19.9 | 11.8 | 2.1 | 2.05 | 0.61 | 92.8 |
| 2 | Bedrock | 48.3 | 0.92 | 9.5 | 20.4 | 8.6 | 2.1 | 2.09 | 0.62 | 92.6 |
| 3 | Bedrock | 39.2 | 0.77 | 7 | 18.4 | 4.9 | 12.7 | 1.3 | 0.35 | 84.56 |
| 4 | Bedrock | 44.7 | 0.73 | 10.9 | 21.6 | 4.7 | 9.4 | 2.42 | 1.32 | 95.81 |



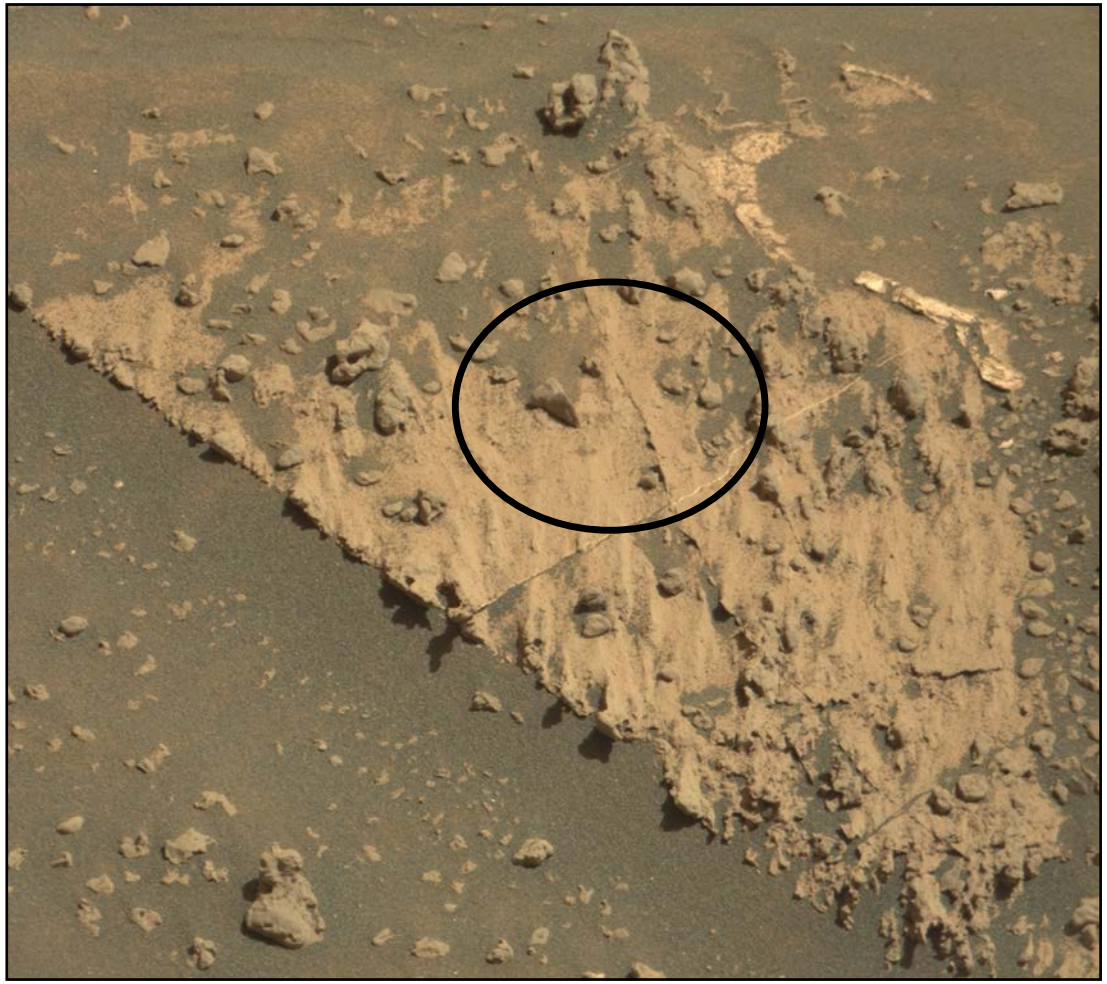
# Target: Dournazac

**Sol:** 3167
**Elev (m.):** -4040.917588

**CCAM Sequence ID:** CCAM02167

**Whole Target Classification:** Bedrock
**Lamination Strength:** Absent
**Lamination Expression:** Absent
**Grain Visibility:** Below RMI Image Resolution
**Bedrock Appearance:** Dull
**Nodule Presence:** Common (~30% by Visual Inspection
**Nodule Diameter:** Large (>3 mm)
**Nodule Resistance:** Protruding
**Fracture Presence:** Occasional (<10% by Visual Inspection)

| # | Feature | SiO2 (wt%) | TiO2 (wt%) | Al2O3 (wt%) | FeOT (wt%) | MgO (wt%) | CaO (wt%) | Na2O (wt%) | K2O (wt%) | Sum of Oxides (wt%) |
|---|---|---|---|---|---|---|---|---|---|---|
| 1 | Bedrock | 46.6 | 0.82 | 10.1 | 18.2 | 14 | 4.1 | 2.02 | 0.64 | 96.51 |
| 2 | Bedrock | 47.6 | 0.91 | 10.2 | 19.7 | 14 | 1.8 | 2.17 | 0.7 | 97.04 |



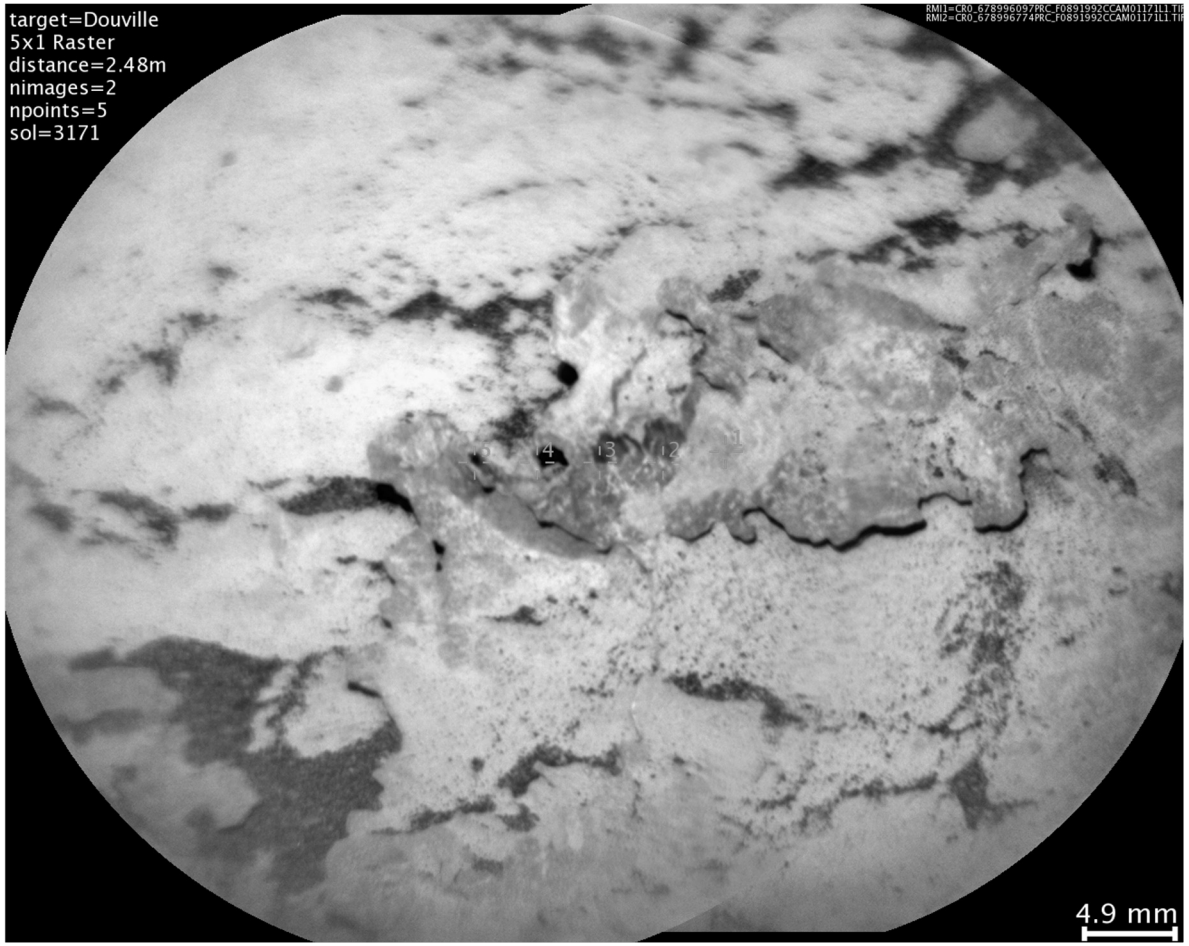
# Target: Douville

**Sol:** 3171
**Elev (m.):** -4041.058645

**CCAM Sequence ID:** CCAM01171

**Whole Target Classification:** Bedrock
**Lamination Strength:** Weakly Laminated
**Lamination Expression:** Primary Stratification
**Grain Visibility:** Below RMI Image Resolution
**Bedrock Appearance:** Dull
**Nodule Presence:** Absent
**Nodule Diameter:** Absent
**Nodule Resistance:** Absent
**Fracture Presence:** Occasional (<10% by Visual Inspection)

| # | Feature | SiO2 (wt%) | TiO2 (wt%) | Al2O3 (wt%) | FeOT (wt%) | MgO (wt%) | CaO (wt%) | Na2O (wt%) | K2O (wt%) | Sum of Oxides (wt%) |
|---|---|---|---|---|---|---|---|---|---|---|
| 1 | Vein or Fracture | 37.6 | 0.71 | 7.3 | 16.1 | 3.5 | 15.6 | 1.29 | 0.35 | 82.53 |
| 2 | Vein or Fracture | 45.8 | 0.69 | 7.7 | 17.7 | 4.9 | 0.2 | 11.78 | 0.34 | 89.17 |
| 3 | Vein or Fracture | 40.7 | 0.63 | 6.8 | 27.2 | 3.7 | 0.2 | 11.2 | 0.29 | 90.74 |
| 4 | Vein or Fracture | 49.1 | 0.76 | 9.7 | 19.1 | 6.1 | 1.4 | 8.44 | 0.46 | 95.01 |
| 5 | Vein or Fracture | 44 | 0.65 | 8.4 | 27.9 | 3.8 | 1 | 4.82 | 0.59 | 91.12 |

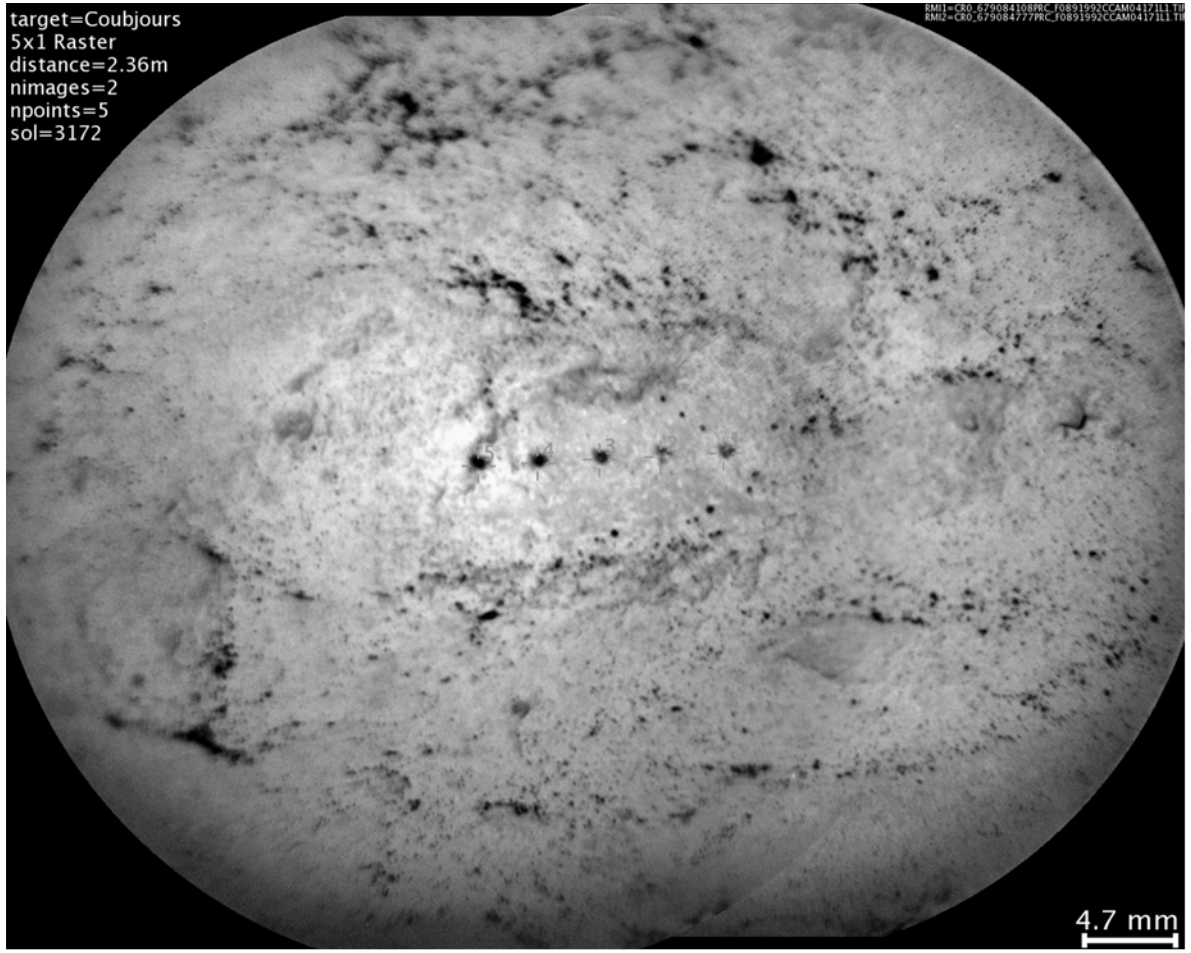


# Target: Coubjours

**Sol:** 3172
**Elev (m.):** -4041.094306
**CCAM Sequence ID:** CCAM04171

**Whole Target Classification:** Bedrock
**Lamination Strength:** Weakly Laminated
**Lamination Expression:** Laminae-Parallel Nodules
**Grain Visibility:** Below RMI Image Resolution
**Bedrock Appearance:** Dull
**Nodule Presence:** Absent
**Nodule Diameter:** Absent
**Nodule Resistance:** Absent
**Fracture Presence:** Occasional (<10% by Visual Inspection)

| # | Feature | SiO2 (wt%) | TiO2 (wt%) | Al2O3 (wt%) | FeOT (wt%) | MgO (wt%) | CaO (wt%) | Na2O (wt%) | K2O (wt%) | Sum of Oxides (wt%) |
|---|---|---|---|---|---|---|---|---|---|---|
| 1 | Bedrock | 51 | 1.03 | 10.8 | 20.9 | 5.2 | 2.3 | 2.39 | 0.79 | 94.51 |
| 2 | Bedrock | 51.1 | 0.73 | 9.3 | 14.3 | 6.4 | 0.9 | 10.56 | 0.37 | 93.71 |
| 3 | Bedrock | 49.6 | 1 | 10.2 | 20.9 | 6.3 | 2.3 | 2.29 | 0.75 | 93.43 |
| 4 | Bedrock | 45.7 | 0.91 | 9.4 | 20.7 | 8.8 | 1.8 | 2 | 0.57 | 89.91 |
| 5 | Bedrock | 48.6 | 0.95 | 10.4 | 21.1 | 7 | 2.4 | 2.26 | 0.71 | 93.35 |



# Target: Pontours_ccam_drill_hole_3173

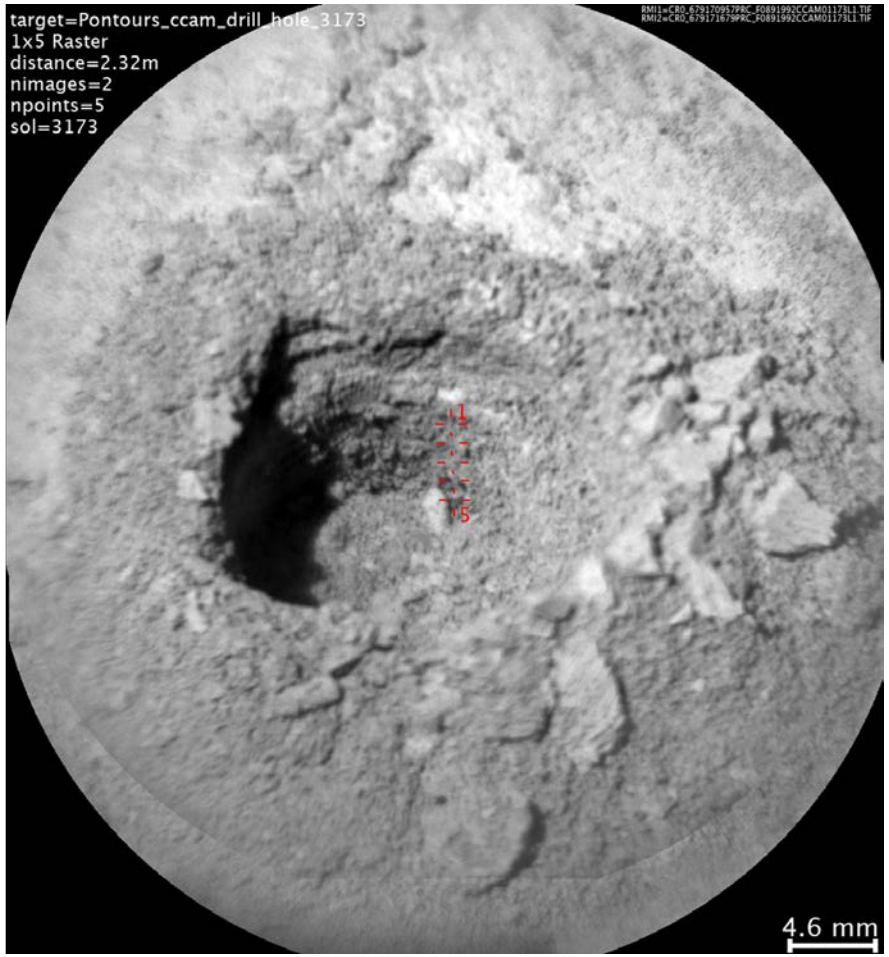
**Sol:** 3173

**Elev (m.):** -4041.111117

**CCAM Sequence ID:** CCAM01173

**Whole Target Classification:** Bedrock
**Lamination Strength:** Weakly Laminated
**Lamination Expression:** Laminae-Parallel Nodules
**Grain Visibility:** Below RMI Image Resolution
**Bedrock Appearance:** Dull
**Nodule Presence:** Absent
**Nodule Diameter:** Absent
**Nodule Resistance:** Absent
**Fracture Presence:** Occasional (<10% by Visual Inspection)

| # | Feature | SiO2 (wt%) | TiO2 (wt%) | Al2O3 (wt%) | FeOT (wt%) | MgO (wt%) | CaO (wt%) | Na2O (wt%) | K2O (wt%) | Sum of Oxides (wt%) |
|---|---|---|---|---|---|---|---|---|---|---|
| 1 | Bedrock | 40.7 | 0.72 | 7.6 | 17.1 | 4.3 | 12.2 | 1.26 | 0.34 | 84.25 |
| 2 | Bedrock | 40.9 | 0.75 | 7.4 | 17.3 | 3.4 | 11.6 | 1.42 | 0.47 | 83.31 |
| 3 | Bedrock | 51 | 0.88 | 9 | 21 | 5.6 | 2.2 | 1.75 | 0.52 | 91.93 |
| 4 | Bedrock | 48.6 | 0.87 | 8.7 | 20.5 | 7.6 | 2 | 1.87 | 0.59 | 90.62 |
| 5 | Bedrock | 49.6 | 0.89 | 9 | 21.4 | 5.9 | 2 | 1.65 | 0.44 | 90.85 |



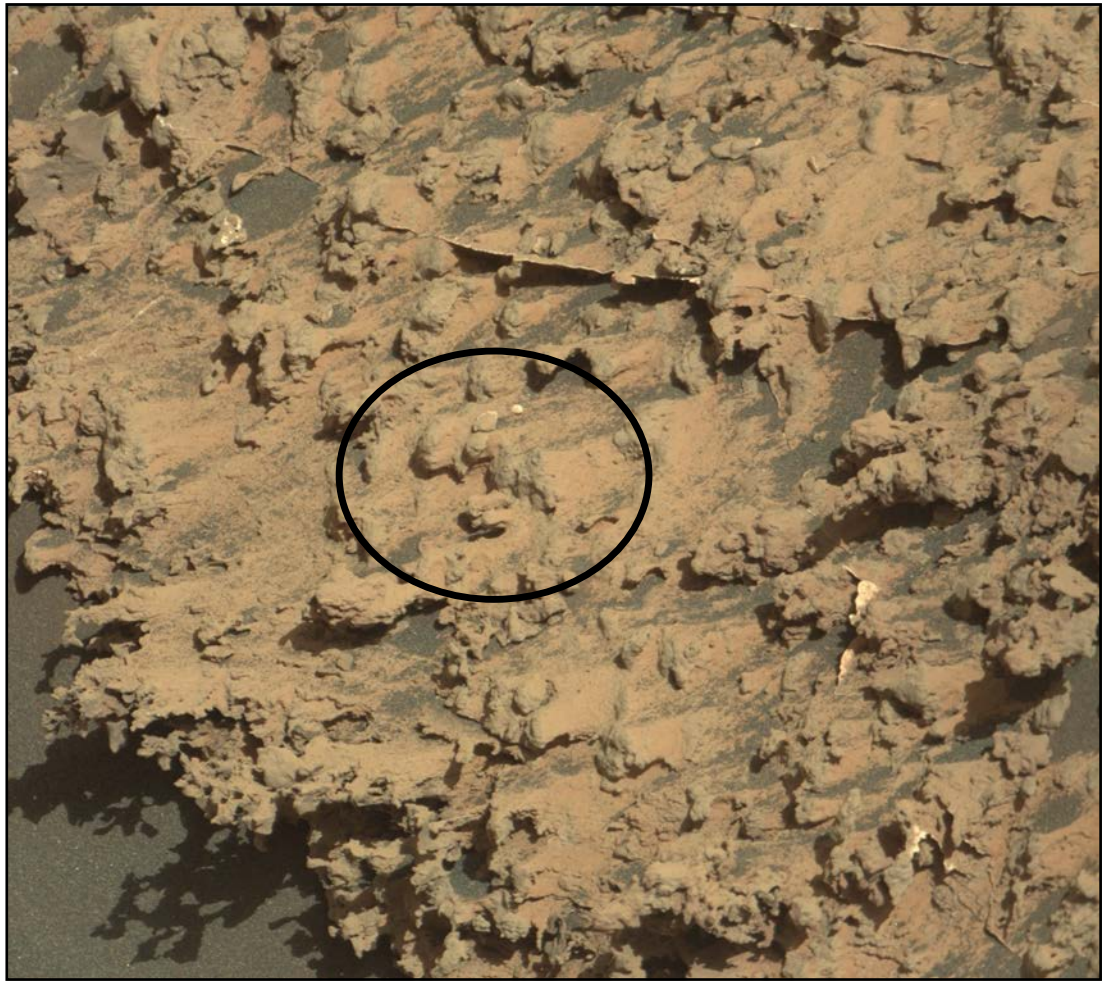
# Target: Archignac

**Sol:** 3174
**Elev (m.):** -4040.816248

**CCAM Sequence ID:** CCAM03173

**Whole Target Classification:** Bedrock
**Lamination Strength:** Absent
**Lamination Expression:** Absent
**Grain Visibility:** Below RMI Image Resolution
**Bedrock Appearance:** Dull
**Nodule Presence:** Pervasive (>50% by Visual Inspection)
**Nodule Diameter:** Large (>3 mm)
**Nodule Resistance:** Protruding
**Fracture Presence:** Occasional (<10% by Visual Inspection)

| # | Feature | SiO2 (wt%) | TiO2 (wt%) | Al2O3 (wt%) | FeOT (wt%) | MgO (wt%) | CaO (wt%) | Na2O (wt%) | K2O (wt%) | Sum of Oxides (wt%) |
|---|---|---|---|---|---|---|---|---|---|---|
| 1 | Bedrock | 51.4 | 0.99 | 11.3 | 20.2 | 4.7 | 2.3 | 2.54 | 0.97 | 94.32 |
| 2 | Nodule | 39.3 | 0.72 | 7.5 | 17.5 | 6.1 | 11.8 | 1.46 | 0.51 | 84.91 |
| 3 | Nodule | 29.1 | 0.66 | 5 | 13.3 | 2.5 | 23.4 | 0.85 | 0.2 | 75.19 |
| 4 | Nodule | 38.9 | 0.78 | 7.8 | 22.8 | 7.7 | 7.8 | 1.62 | 0.44 | 87.88 |
| 5 | Nodule | 39 | 0.69 | 6.6 | 15 | 5.3 | 16.3 | 1.09 | 0.31 | 84.33 |



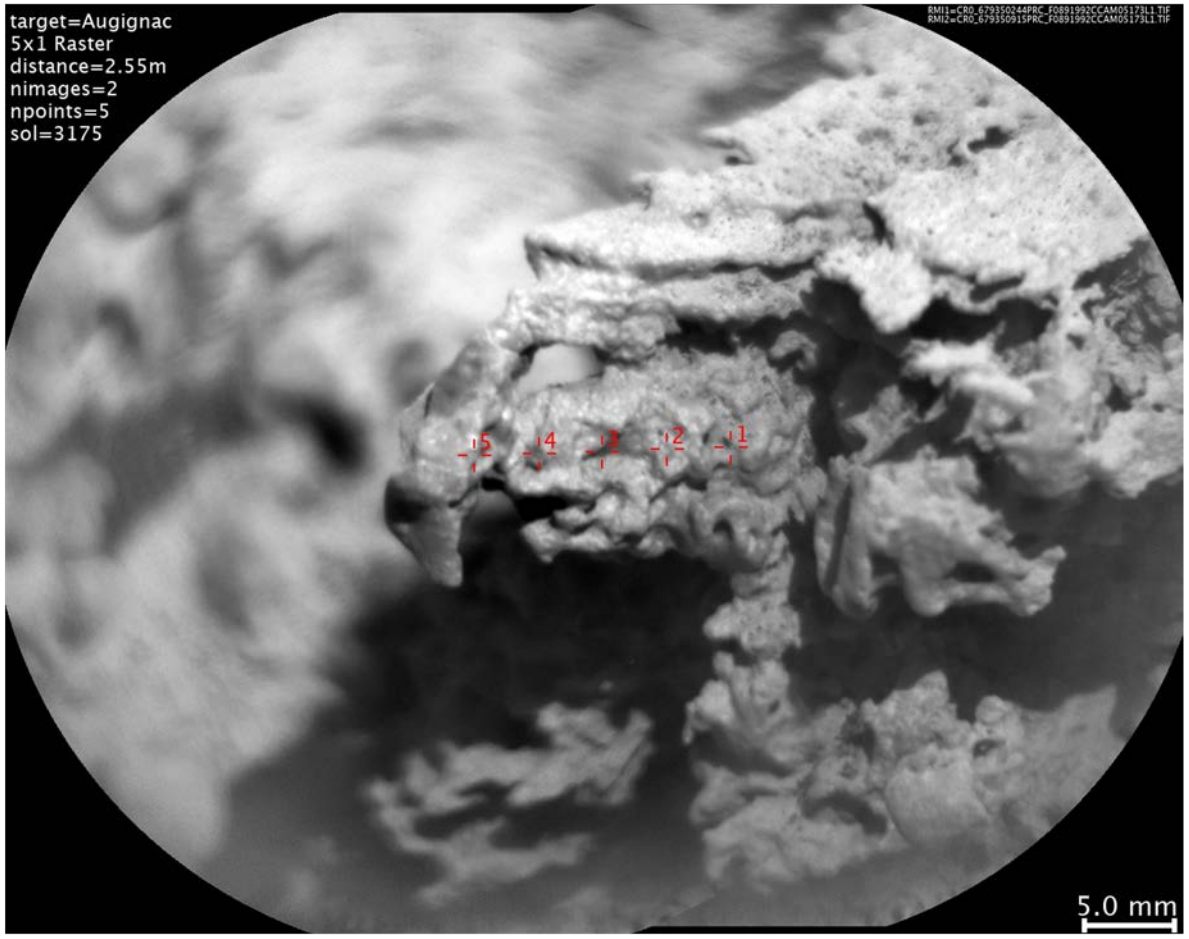
# Target: Augignac

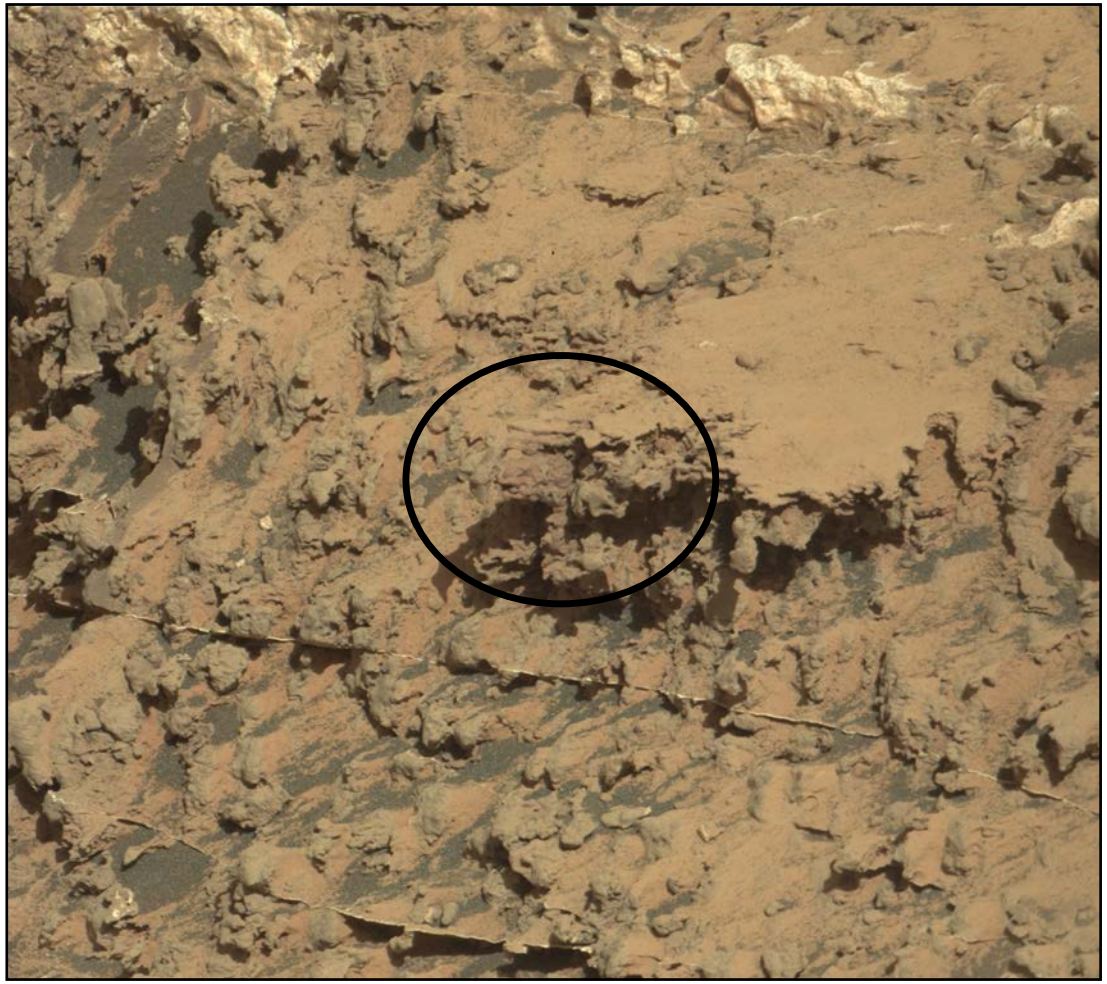
**Sol:** 3175
**Elev (m.):** -4040.73613

**CCAM Sequence ID:** CCAM05173

**Whole Target Classification:** Bedrock
**Lamination Strength:** Weakly Laminated
**Lamination Expression:** Laminae-Parallel Nodules
**Grain Visibility:** Below RMI Image Resolution
**Bedrock Appearance:** Dull
**Nodule Presence:** Pervasive (>50% by Visual Inspection)
**Nodule Diameter:** Large (>3 mm)
**Nodule Resistance:** Protruding
**Fracture Presence:** Pervasive (>20% by Visual Inspection)

| # | Feature | SiO2 (wt%) | TiO2 (wt%) | Al2O3 (wt%) | FeOT (wt%) | MgO (wt%) | CaO (wt%) | Na2O (wt%) | K2O (wt%) | Sum of Oxides (wt%) |
|---|---|---|---|---|---|---|---|---|---|---|
| 1 | Nodule | 46 | 0.85 | 9.6 | 19.4 | 12.6 | 3.2 | 2.15 | 0.6 | 94.4 |
| 2 | Nodule | 40.6 | 0.87 | 7.4 | 18.7 | 19.8 | 1.3 | 1.68 | 0.49 | 90.96 |
| 3 | Nodule | 39.7 | 0.72 | 7.2 | 18.8 | 16.8 | 1.3 | 1.48 | 0.36 | 86.47 |
| 4 | Nodule | 38.4 | 0.85 | 7.3 | 21.5 | 16.8 | 1.2 | 1.78 | 0.5 | 88.29 |
| 5 | Nodule | 40.3 | 0.83 | 7.4 | 18.4 | 19.2 | 2.4 | 1.55 | 0.46 | 90.44 |



# Target: Berbiguieres

**Sol:** 3176
**Elev (m.):** -4040.680095

**CCAM Sequence ID:** CCAM01176

**Whole Target Classification:** Bedrock
**Lamination Strength:** Absent
**Lamination Expression:** Absent
**Grain Visibility:** Below RMI Image Resolution
**Bedrock Appearance:** Dull
**Nodule Presence:** Pervasive (>50% by Visual Inspection)
**Nodule Diameter:** Large (>3 mm)
**Nodule Resistance:** Protruding
**Fracture Presence:** Pervasive (>20% by Visual Inspection)

| # | Feature | SiO2 (wt%) | TiO2 (wt%) | Al2O3 (wt%) | FeOT (wt%) | MgO (wt%) | CaO (wt%) | Na2O (wt%) | K2O (wt%) | Sum of Oxides (wt%) |
|---|---|---|---|---|---|---|---|---|---|---|
| 1 | Nodule | 41 | 0.77 | 6.8 | 17.4 | 20.2 | 1.2 | 1.47 | 0.38 | 89.21 |
| 2 | Nodule | 36.7 | 0.71 | 6.7 | 17.7 | 8.1 | 11 | 1.25 | 0.36 | 82.61 |
| 3 | Nodule | 37.6 | 0.7 | 6.4 | 18.4 | 10.1 | 11.8 | 1.17 | 0.24 | 86.44 |
| 4 | Nodule | 42.1 | 0.88 | 8 | 17.7 | 19.6 | 1.8 | 1.63 | 0.54 | 92.21 |
| 5 | Nodule | 38.8 | 0.67 | 7 | 16.7 | 8.6 | 13.9 | 1.32 | 0.37 | 87.31 |

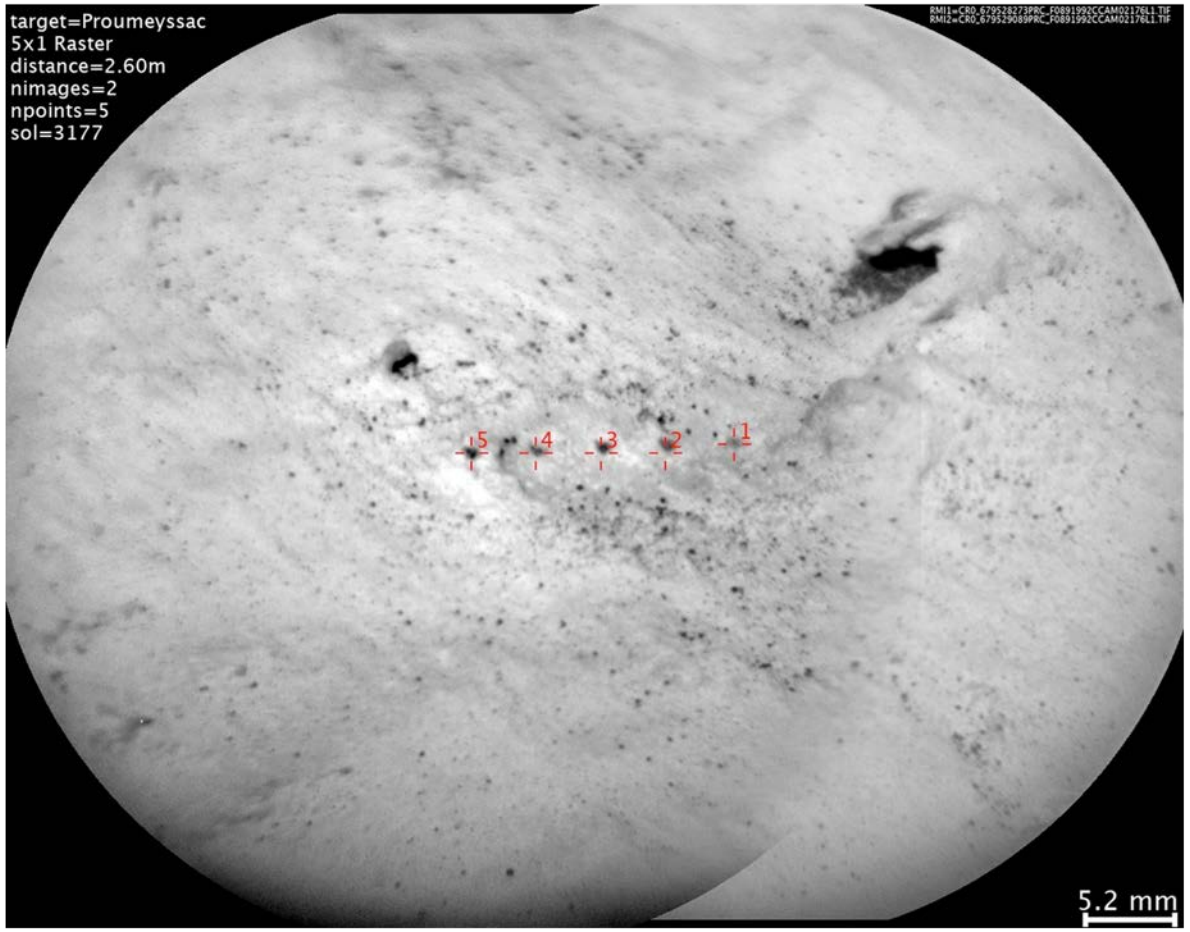
# Target: Proumeyssac

**Sol:** 3177
**Elev (m.):** -4041.023747

**CCAM Sequence ID:** CCAM02176

**Whole Target Classification:** Bedrock
**Lamination Strength:** Weakly Laminated
**Lamination Expression:** Laminae-Parallel Nodules
**Grain Visibility:** Below RMI Image Resolution
**Bedrock Appearance:** Dull
**Nodule Presence:** Occasional (~10% by Visual Inspection)
**Nodule Diameter:** Medium (1 - 3 mm)
**Nodule Resistance:** Unclear
**Fracture Presence:** Absent

| # | Feature | SiO2 (wt%) | TiO2 (wt%) | Al2O3 (wt%) | FeOT (wt%) | MgO (wt%) | CaO (wt%) | Na2O (wt%) | K2O (wt%) | Sum of Oxides (wt%) |
|---|---|---|---|---|---|---|---|---|---|---|
| 1 | Bedrock | 45.6 | 0.79 | 8.3 | 18.4 | 10.6 | 5.1 | 1.8 | 0.51 | 91.14 |
| 2 | Bedrock | 49.7 | 0.94 | 11 | 20.5 | 5.9 | 2.2 | 2.46 | 0.79 | 93.65 |
| 3 | Bedrock | 50.7 | 0.98 | 11.5 | 21.2 | 5.7 | 2.3 | 2.49 | 0.8 | 95.63 |
| 4 | Bedrock | 42.2 | 0.81 | 8.5 | 20.9 | 3.6 | 9.7 | 1.68 | 0.46 | 87.85 |
| 5 | Bedrock | 39.7 | 0.79 | 8.2 | 20.3 | 3.3 | 11.8 | 1.65 | 0.5 | 86.27 |



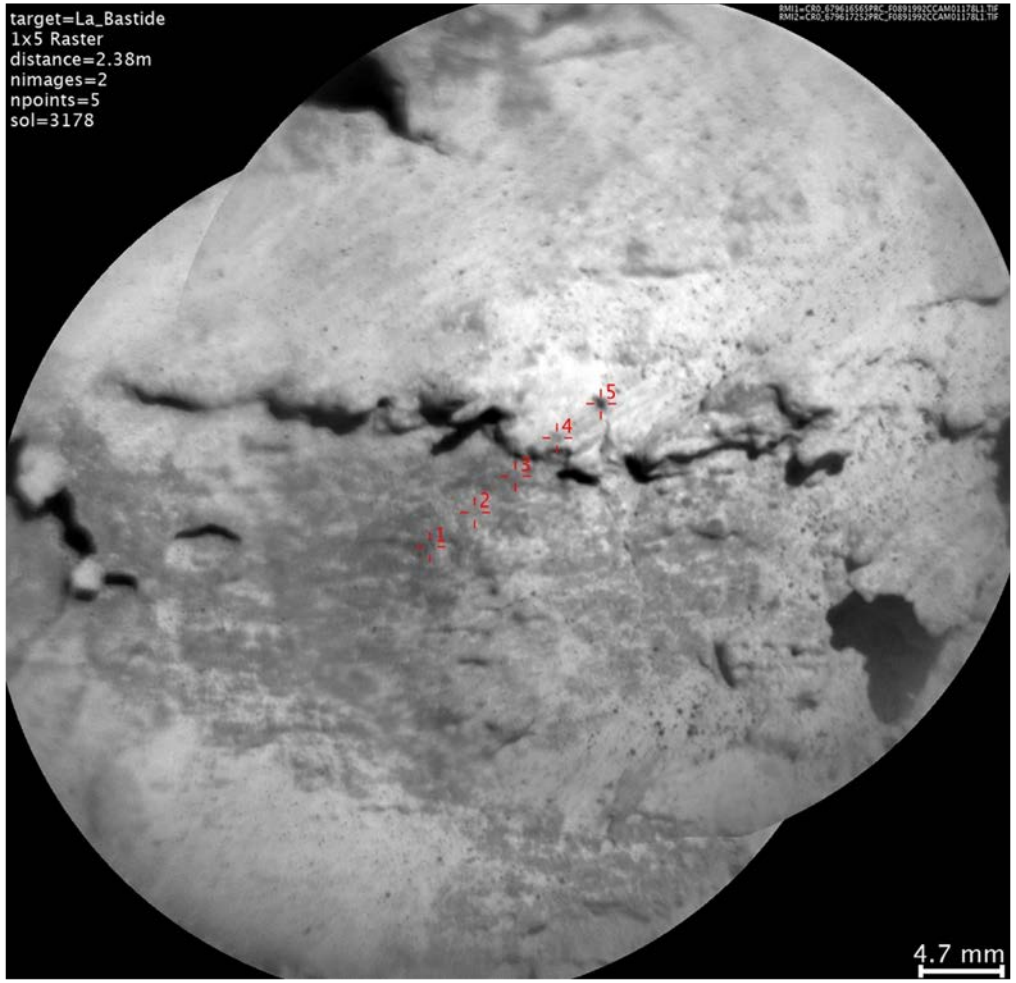
# Target: La_Bastide

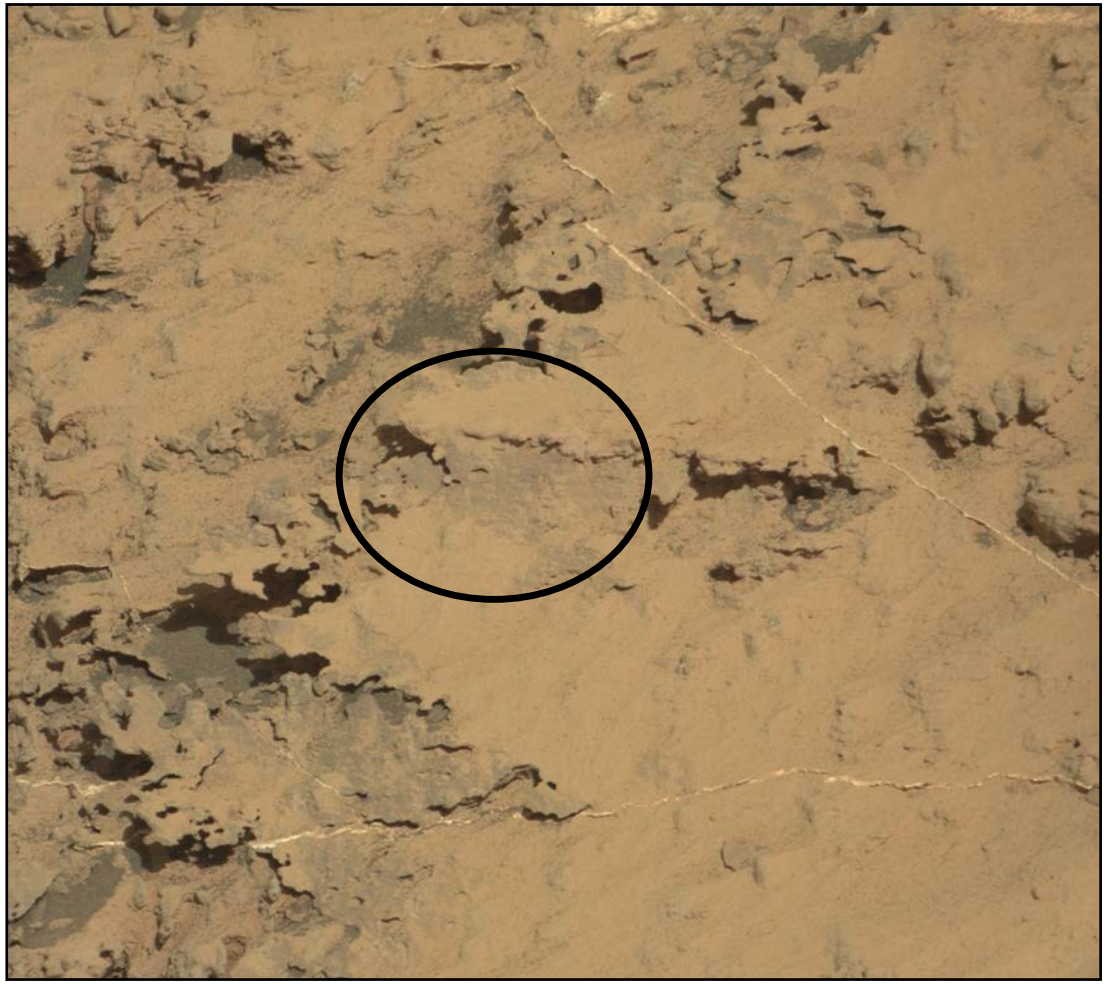
**Sol:** 3178
**Elev (m.):** -4040.698767

**CCAM Sequence ID:** CCAM01178

**Whole Target Classification:** Bedrock
**Lamination Strength:** Absent
**Lamination Expression:** Absent
**Grain Visibility:** Below RMI Image Resolution
**Bedrock Appearance:** Dull
**Nodule Presence:** Pervasive (>50% by Visual Inspection)
**Nodule Diameter:** Large (>3 mm)
**Nodule Resistance:** Protruding
**Fracture Presence:** Common (~10-20% by Visual Inspection)

| # | Feature | SiO2 (wt%) | TiO2 (wt%) | Al2O3 (wt%) | FeOT (wt%) | MgO (wt%) | CaO (wt%) | Na2O (wt%) | K2O (wt%) | Sum of Oxides (wt%) |
|---|---|---|---|---|---|---|---|---|---|---|
| 1 | Vein or Fracture | 44.1 | 0.72 | 8 | 16 | 9.9 | 0.7 | 9.16 | 0.33 | 89.01 |
| 2 | Vein or Fracture | 38.3 | 0.7 | 7.3 | 17.2 | 8.3 | 9.1 | 4.24 | 0.32 | 85.42 |
| 3 | Vein or Fracture | 47.4 | 0.7 | 9.4 | 14.8 | 6.9 | 0.7 | 10.56 | 0.37 | 90.82 |
| 4 | Nodule | 46.3 | 0.81 | 8.3 | 16.9 | 17.1 | 1.8 | 1.81 | 0.54 | 93.71 |
| 5 | Nodule | 46.7 | 0.92 | 9.3 | 20.4 | 9.6 | 2.4 | 2.17 | 0.62 | 92.18 |



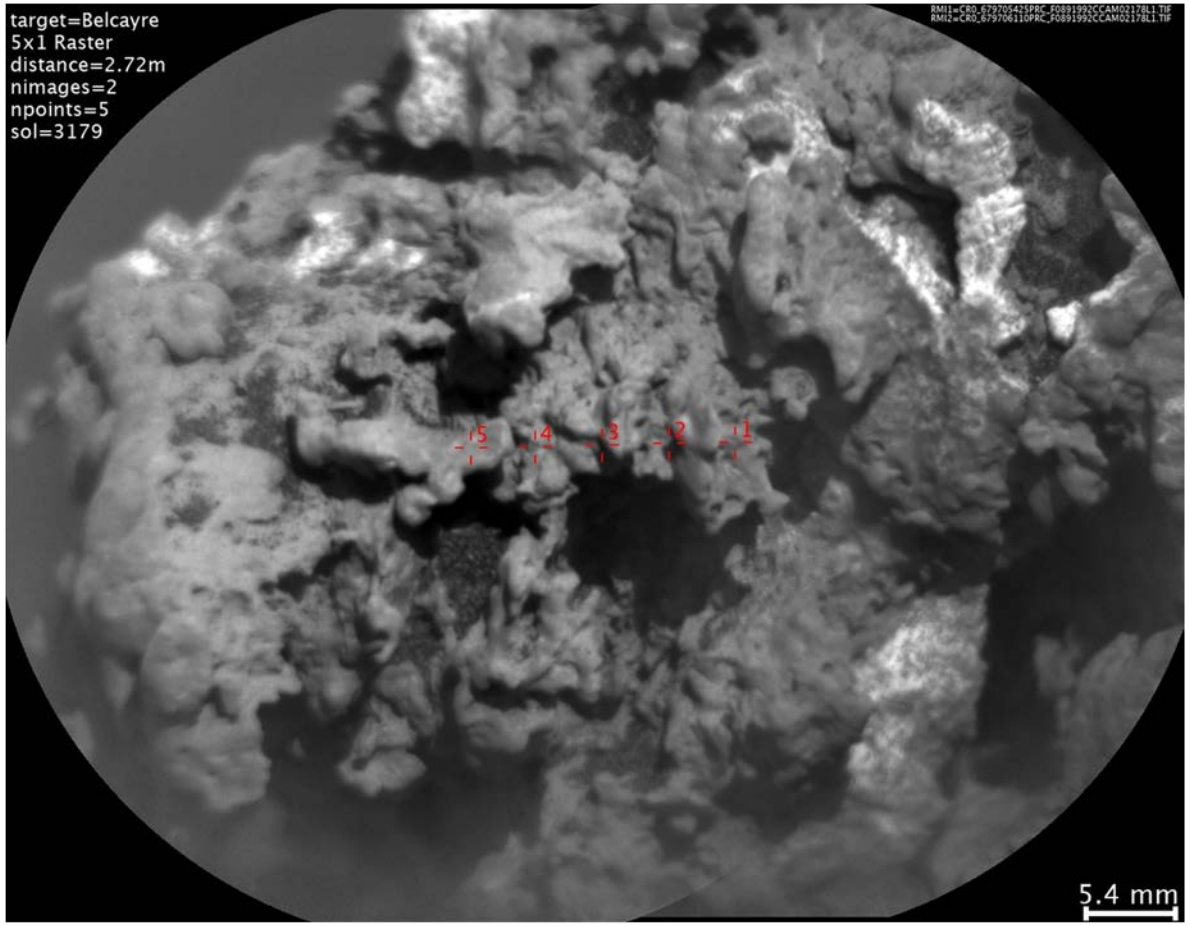
# Target: Belcayre

**Sol:** 3179
**Elev (m.):** -4040.764586

**CCAM Sequence ID:** CCAM02178

**Whole Target Classification:** Bedrock
**Lamination Strength:** Absent
**Lamination Expression:** Absent
**Grain Visibility:** Below RMI Image Resolution
**Bedrock Appearance:** Dull
**Nodule Presence:** Pervasive (>50% by Visual Inspection)
**Nodule Diameter:** Large (>3 mm)
**Nodule Resistance:** Protruding
**Fracture Presence:** Pervasive (>20% by Visual Inspection)

| # | Feature | SiO2 (wt%) | TiO2 (wt%) | Al2O3 (wt%) | FeOT (wt%) | MgO (wt%) | CaO (wt%) | Na2O (wt%) | K2O (wt%) | Sum of Oxides (wt%) |
|---|---|---|---|---|---|---|---|---|---|---|
| 1 | Nodule | 40.7 | 0.78 | 7.3 | 17 | 20 | 1.3 | 1.46 | 0.45 | 88.9 |
| 2 | Nodule | 43.3 | 0.83 | 8.8 | 18.3 | 18.6 | 1.8 | 1.59 | 0.33 | 93.68 |
| 3 | Nodule | 41.1 | 0.76 | 7.7 | 17.4 | 18.8 | 1.7 | 1.55 | 0.38 | 89.43 |
| 4 | Nodule | 39.5 | 0.84 | 8 | 19.4 | 17.7 | 1.4 | 1.78 | 0.5 | 89.1 |
| 5 | Nodule | 40.1 | 0.75 | 6.8 | 18.3 | 16.1 | 5.7 | 1.43 | 0.41 | 89.45 |



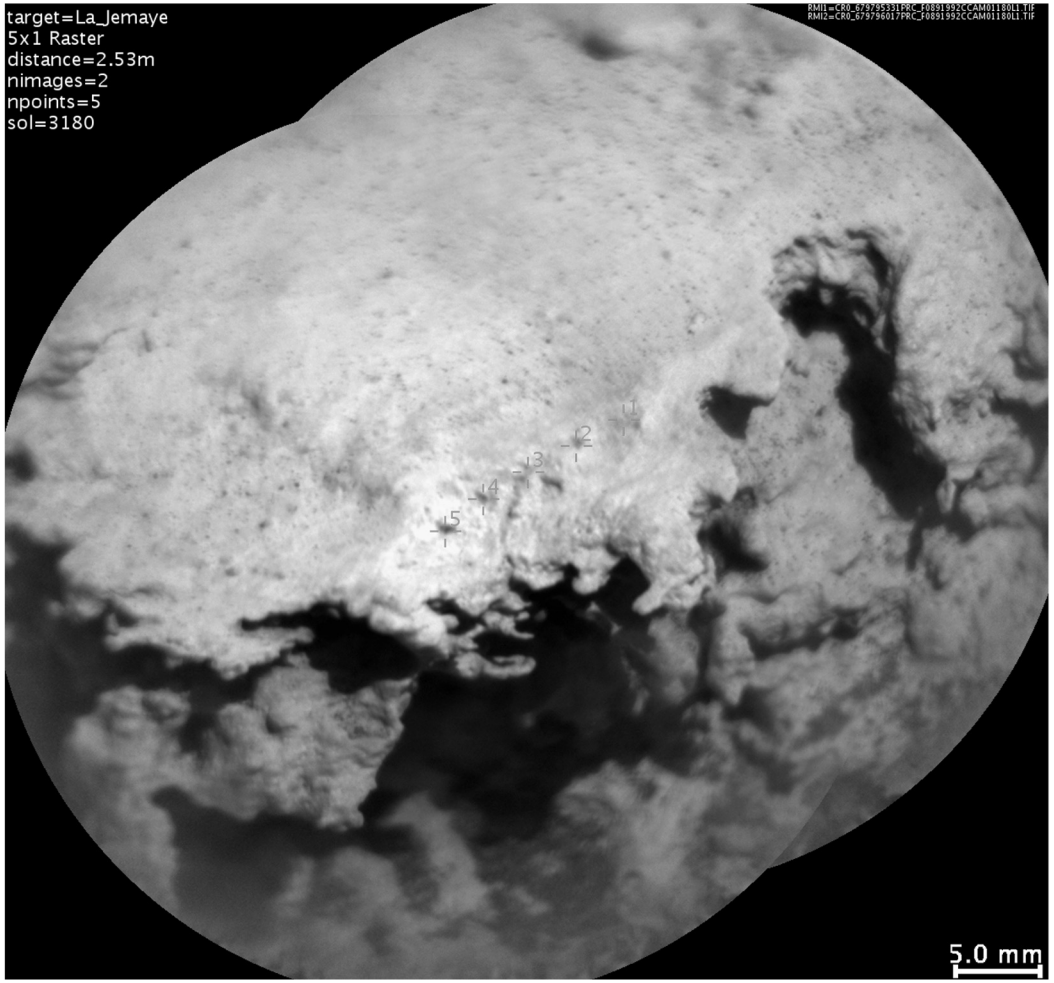
# Target: La_Jemaye

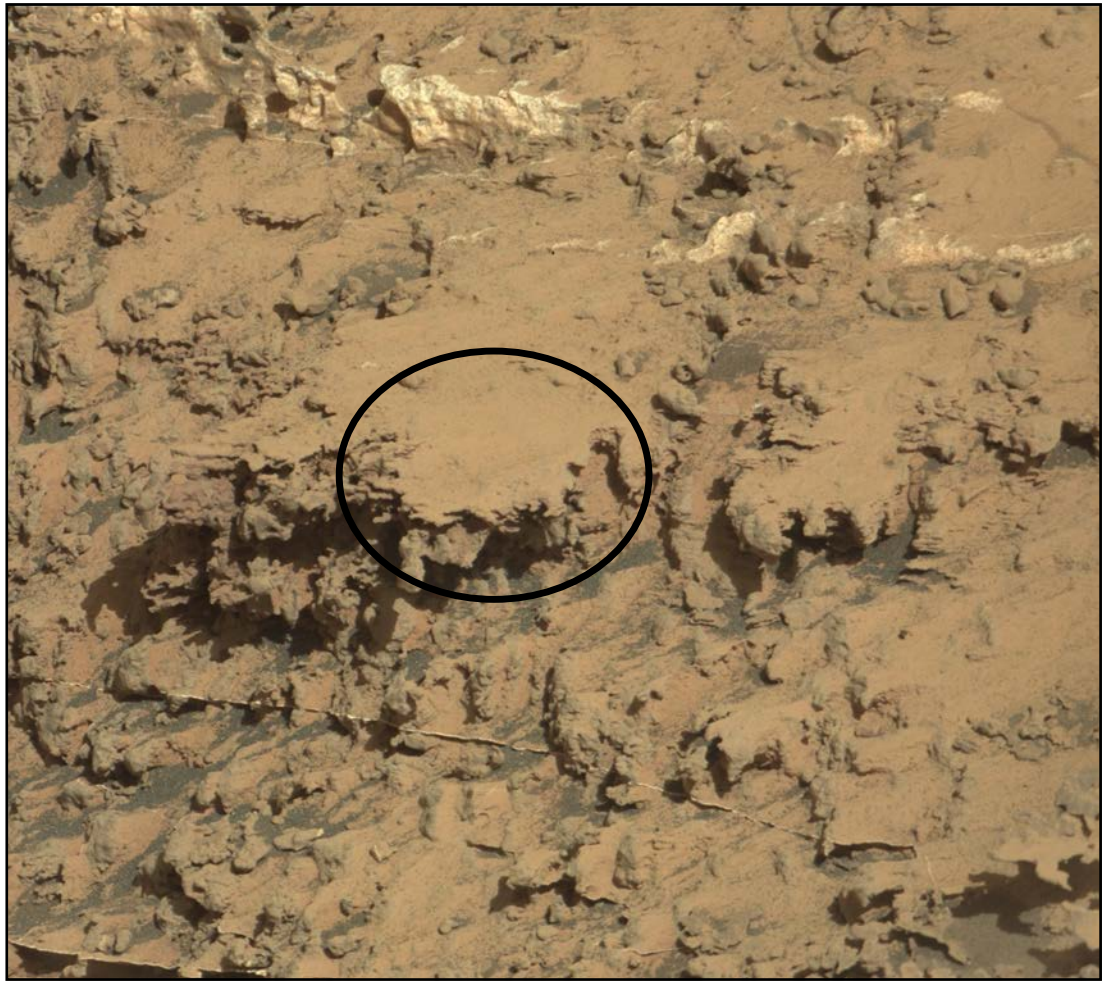
**Sol:** 3180
**Elev (m.):** -4040.724045

**CCAM Sequence ID:** CCAM01180

**Whole Target Classification:** Bedrock
**Lamination Strength:** Absent
**Lamination Expression:** Absent
**Grain Visibility:** Below RMI Image Resolution
**Bedrock Appearance:** Dull
**Nodule Presence:** Pervasive (>50% by Visual Inspection)
**Nodule Diameter:** Large (>3 mm)
**Nodule Resistance:** Protruding
**Fracture Presence:** Pervasive (>20% by Visual Inspection)

| # | Feature | SiO2 (wt%) | TiO2 (wt%) | Al2O3 (wt%) | FeOT (wt%) | MgO (wt%) | CaO (wt%) | Na2O (wt%) | K2O (wt%) | Sum of Oxides (wt%) |
|---|---|---|---|---|---|---|---|---|---|---|
| 1 | Bedrock | 39 | 0.75 | 7.5 | 18.7 | 7.6 | 11.3 | 1.34 | 0.35 | 86.51 |
| 2 | Bedrock | 47.9 | 0.87 | 9.5 | 18.7 | 12.6 | 2.3 | 2.28 | 0.82 | 94.94 |
| 3 | Nodule | 40 | 0.78 | 7.5 | 21.8 | 12.6 | 2.1 | 1.7 | 0.4 | 86.83 |
| 4 | Bedrock | 47.6 | 0.83 | 9.1 | 19.3 | 12.9 | 1.9 | 2.09 | 0.75 | 94.45 |
| 5 | Bedrock | 48.9 | 0.91 | 10.8 | 20.2 | 8.7 | 2.3 | 2.23 | 0.67 | 94.7 |



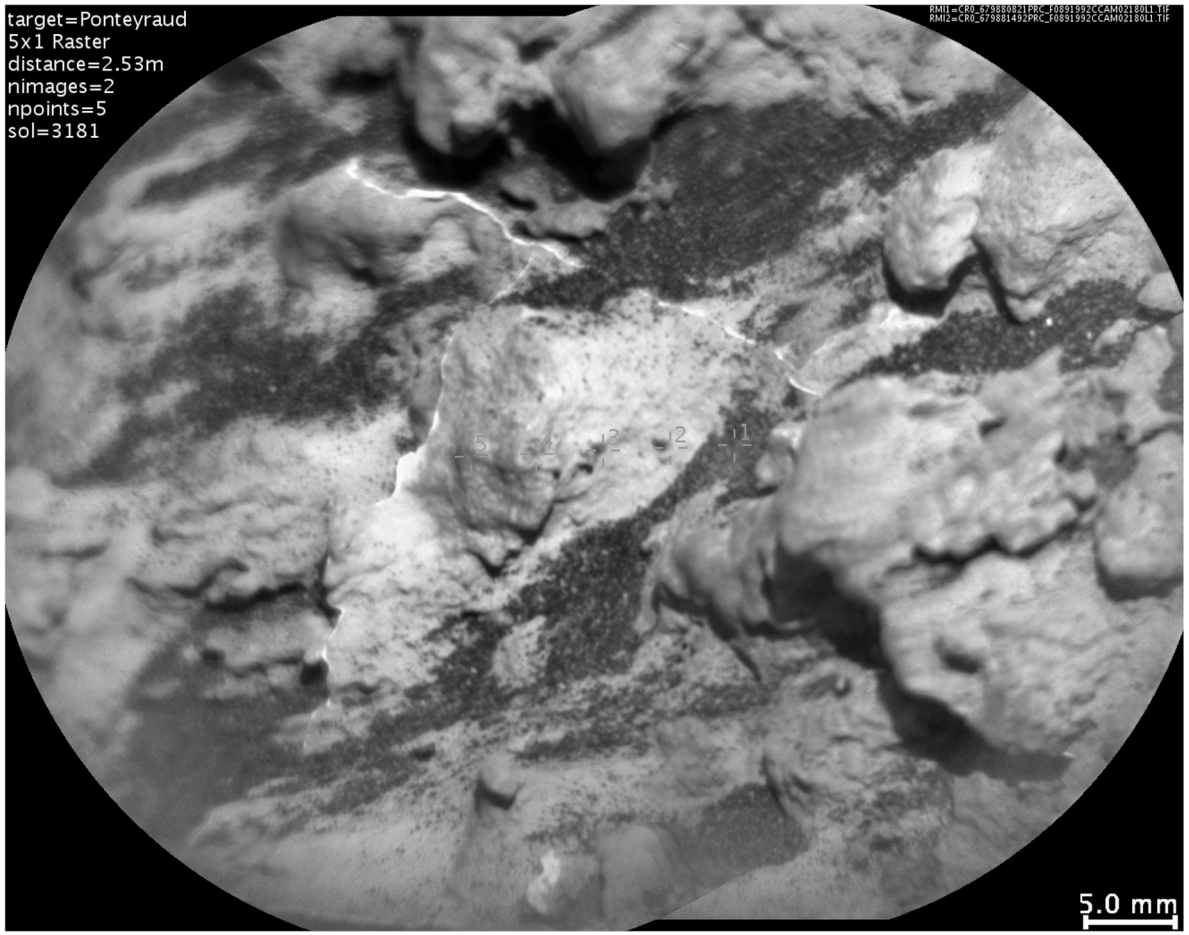
# Target: Ponteyraud

**Sol:** 3181
**Elev (m.):** -4040.795843

**CCAM Sequence ID:** CCAM02180

**Whole Target Classification:** Bedrock
**Lamination Strength:** Absent
**Lamination Expression:** Absent
**Grain Visibility:** Below RMI Image Resolution
**Bedrock Appearance:** Dull
**Nodule Presence:** Pervasive (>50% by Visual Inspection)
**Nodule Diameter:** Large (>3 mm)
**Nodule Resistance:** Protruding
**Fracture Presence:** Common (~10-20% by Visual Inspection)

| # | Feature | SiO2 (wt%) | TiO2 (wt%) | Al2O3 (wt%) | FeOT (wt%) | MgO (wt%) | CaO (wt%) | Na2O (wt%) | K2O (wt%) | Sum of Oxides (wt%) |
|---|---|---|---|---|---|---|---|---|---|---|
| 1 | Sand | 49.8 | 0.98 | 11 | 20.4 | 7.6 | 2.9 | 2.44 | 0.81 | 95.96 |
| 2 | Bedrock | 49.9 | 0.98 | 11 | 21.1 | 6.4 | 2.2 | 2.47 | 0.92 | 94.97 |
| 3 | Bedrock | 51.6 | 0.91 | 9.7 | 19 | 7.6 | 2.3 | 2.26 | 0.81 | 94.27 |
| 4 | Nodule | 40.4 | 0.75 | 7.7 | 17.2 | 7.1 | 12.6 | 1.34 | 0.45 | 87.54 |
| 5 | Nodule | 38.5 | 0.72 | 7 | 17.1 | 7.8 | 13.3 | 1.23 | 0.41 | 86.09 |



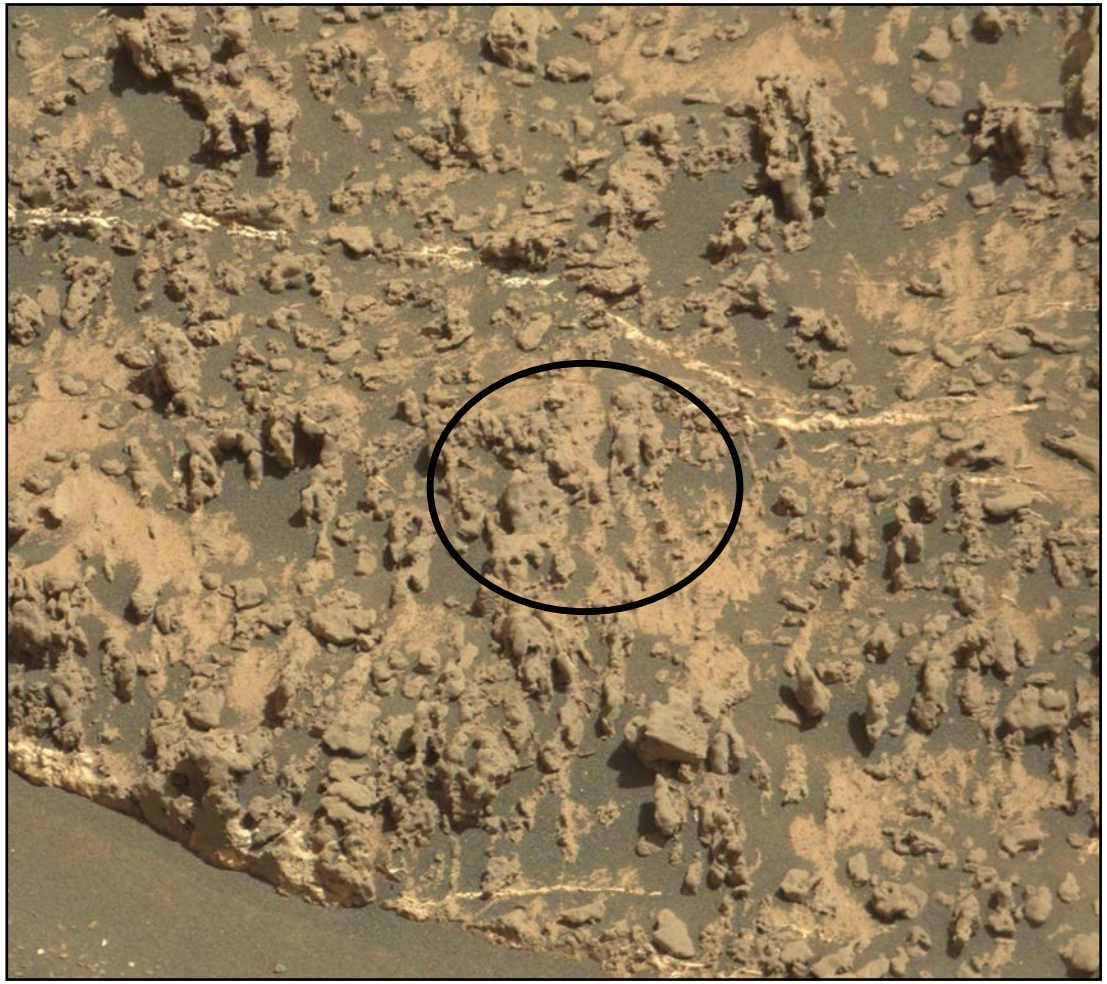
# Target: Bussiere_Galant

**Sol:** 3182
**Elev (m.):** -4040.752352

**CCAM Sequence ID:** CCAM05180

**Whole Target Classification:** Bedrock
**Lamination Strength:** Absent
**Lamination Expression:** Absent
**Grain Visibility:** Below RMI Image Resolution
**Bedrock Appearance:** Dull
**Nodule Presence:** Pervasive (>50% by Visual Inspection)
**Nodule Diameter:** Large (>3 mm)
**Nodule Resistance:** Protruding
**Fracture Presence:** Common (~10-20% by Visual Inspection)

| # | Feature | SiO2 (wt%) | TiO2 (wt%) | Al2O3 (wt%) | FeOT (wt%) | MgO (wt%) | CaO (wt%) | Na2O (wt%) | K2O (wt%) | Sum of Oxides (wt%) |
|---|---|---|---|---|---|---|---|---|---|---|
| 1 | Nodule | 45.3 | 0.84 | 8.7 | 20 | 15.9 | 1.7 | 1.96 | 0.67 | 95.18 |
| 2 | Nodule | 43.2 | 0.71 | 8.9 | 20 | 11.7 | 5.9 | 1.68 | 0.46 | 92.53 |
| 3 | Nodule | 39.7 | 0.8 | 7.7 | 22.3 | 14.8 | 1 | 3.49 | 0.5 | 90.35 |
| 4 | Nodule | 43.1 | 0.8 | 8.3 | 22.2 | 11.4 | 3 | 2.05 | 0.52 | 91.34 |
| 5 | Nodule | 43.2 | 0.76 | 7.6 | 18.5 | 20.5 | 1.7 | 1.54 | 0.44 | 94.12 |



# Target: Montagrier

**Sol:** 3183
**Elev (m.):** -4041.090412

**CCAM Sequence ID:** CCAM01183

**Whole Target Classification:** Bedrock
**Lamination Strength:** Weakly Laminated
**Lamination Expression:** Primary Stratification
**Grain Visibility:** Below RMI Image Resolution
**Bedrock Appearance:** Dull
**Nodule Presence:** Absent
**Nodule Diameter:** Absent
**Nodule Resistance:** Absent
**Fracture Presence:** Common (~10-20% by Visual Inspection)

| # | Feature | SiO2 (wt%) | TiO2 (wt%) | Al2O3 (wt%) | FeOT (wt%) | MgO (wt%) | CaO (wt%) | Na2O (wt%) | K2O (wt%) | Sum of Oxides (wt%) |
|---|---|---|---|---|---|---|---|---|---|---|
| 1 | Bedrock | 45.1 | 0.83 | 9.4 | 18.5 | 6.1 | 8.2 | 1.74 | 0.45 | 90.31 |
| 2 | Vein or Fracture | 36.2 | 0.66 | 7.5 | 11.3 | 3.3 | 0.3 | 14.21 | 0.24 | 73.58 |
| 3 | Vein or Fracture | 42.8 | 0.69 | 6.9 | 17.4 | 8.6 | 0.6 | 9.47 | 0.31 | 86.75 |
| 4 | Vein or Fracture | 38.2 | 0.6 | 7 | 33.7 | 2.9 | 0.4 | 8.19 | 0.23 | 91.29 |
| 5 | Vein or Fracture | 43.8 | 0.66 | 7.2 | 15.8 | 5.7 | 0.5 | 10.94 | 0.29 | 84.94 |

# Target: aegis_post_3184a

**Sol:** 3184
**Elev (m.):** -4041.540356
**CCAM Sequence ID:** CCAM15905

**Whole Target Classification:** Bedrock
**Lamination Strength:** Absent
**Lamination Expression:** Absent
**Grain Visibility:** Below RMI Image Resolution
**Bedrock Appearance:** Dull
**Nodule Presence:** Common (~30% by Visual Inspection
**Nodule Diameter:** Large (>3 mm)
**Nodule Resistance:** Protruding
**Fracture Presence:** Common (~10-20% by Visual Inspection)

| # | Feature | SiO2 (wt%) | TiO2 (wt%) | Al2O3 (wt%) | FeOT (wt%) | MgO (wt%) | CaO (wt%) | Na2O (wt%) | K2O (wt%) | Sum of Oxides (wt%) |
|---|---|---|---|---|---|---|---|---|---|---|
| 1 | Bedrock | 49.2 | 0.91 | 10.4 | 19.4 | 4 | 6.9 | 2.33 | 0.93 | 94.05 |
| 2 | Bedrock | 37.8 | 0.74 | 7.5 | 21.9 | 3.1 | 13.8 | 1.48 | 0.44 | 86.73 |
| 3 | Bedrock | 45.8 | 0.77 | 8.3 | 16.4 | 4 | 10.9 | 2.02 | 0.62 | 88.74 |
| 4 | Bedrock | 41.3 | 0.69 | 7.7 | 14 | 2.9 | 14.9 | 1.42 | 0.49 | 83.36 |
| 5 | Bedrock | 44.7 | 0.88 | 9.1 | 16.8 | 3.5 | 12.8 | 1.65 | 0.53 | 89.98 |

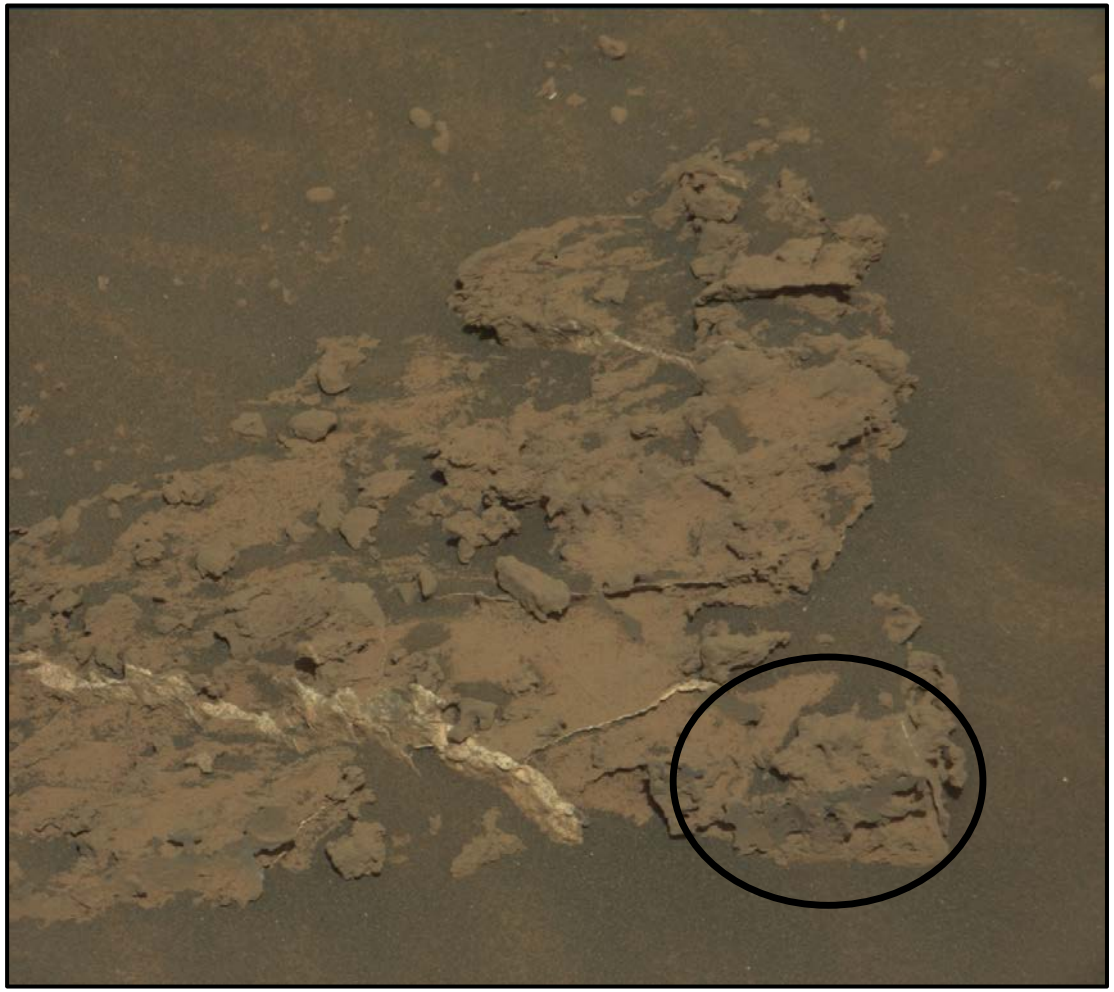
# Target: Rampieux

**Sol:** 3185
**Elev (m.):** -4041.400509

**CCAM Sequence ID:** CCAM01185

**Whole Target Classification:** Bedrock
**Lamination Strength:** Weakly Laminated
**Lamination Expression:** Primary Stratification
**Grain Visibility:** Below RMI Image Resolution
**Bedrock Appearance:** Dull
**Nodule Presence:** Pervasive (>50% by Visual Inspection)
**Nodule Diameter:** Medium (1 - 3 mm)
**Nodule Resistance:** Protruding
**Fracture Presence:** Pervasive (>20% by Visual Inspection)

| # | Feature | SiO2 (wt%) | TiO2 (wt%) | Al2O3 (wt%) | FeOT (wt%) | MgO (wt%) | CaO (wt%) | Na2O (wt%) | K2O (wt%) | Sum of Oxides (wt%) |
|---|---|---|---|---|---|---|---|---|---|---|
| 1 | Vein or Fracture | 42.3 | 0.7 | 6.8 | 16.6 | 17.6 | 1.3 | 3.06 | 0.37 | 88.76 |
| 2 | Vein or Fracture | 39 | 0.68 | 6.5 | 33.4 | 2.7 | 0.8 | 5.22 | 0.23 | 88.53 |
| 3 | Vein or Fracture | 34.3 | 0.58 | 6.4 | 36.5 | 2.3 | 1.9 | 8.1 | 0.19 | 90.41 |
| 4 | Vein or Fracture | 27.9 | 0.58 | 5.7 | 46.5 | 1.9 | 0.6 | 6.05 | 0.19 | 89.42 |
| 5 | Vein or Fracture | 39.1 | 0.77 | 7.9 | 27.3 | 6.2 | 1.1 | 2.33 | 0.41 | 85.22 |



# Target: aegis_post_3186a

**Sol:** 3186
**Elev (m.):** -4042.54237803615
**CCAM Sequence ID:** CCAM15905

**Whole Target Classification:** Bedrock
**Lamination Strength:** Absent
**Lamination Expression:** Absent
**Grain Visibility:** Below RMI Image Resolution
**Bedrock Appearance:** Dull
**Nodule Presence:** Common (~30% by Visual Inspection
**Nodule Diameter:** Medium (1 - 3 mm)
**Nodule Resistance:** Protruding
**Fracture Presence:** Absent

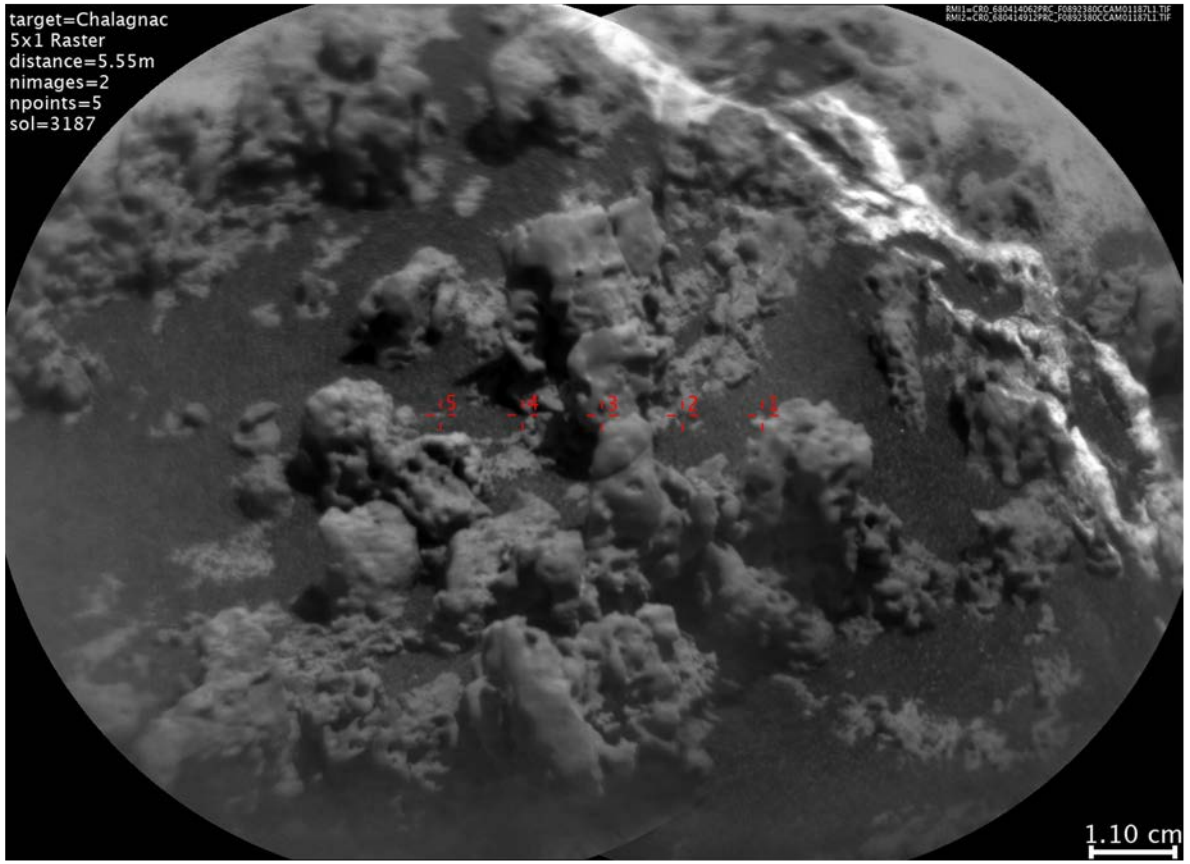
| # | Feature | SiO2 (wt%) | TiO2 (wt%) | Al2O3 (wt%) | FeOT (wt%) | MgO (wt%) | CaO (wt%) | Na2O (wt%) | K2O (wt%) | Sum of Oxides (wt%) |
|---|---|---|---|---|---|---|---|---|---|---|
| 1 | Bedrock | 51.7 | 0.97 | 12.1 | 20.8 | 4.4 | 2.4 | 2.72 | 0.94 | 96 |
| 2 | Bedrock | 52.5 | 1.03 | 12.2 | 21.7 | 4.6 | 2.5 | 2.63 | 0.87 | 98.04 |
| 3 | Bedrock | 44.4 | 0.82 | 8.2 | 21.6 | 3.9 | 4.7 | 2.01 | 0.64 | 86.41 |
| 4 | Bedrock | 40 | 0.76 | 7 | 17.2 | 3.4 | 14.9 | 1.32 | 0.39 | 85.01 |
| 5 | Bedrock | 44 | 0.83 | 8.9 | 19.1 | 12.5 | 4.8 | 1.87 | 0.5 | 92.5 |

# Target: Chalagnac

**Sol:** 3187
**Elev (m.):** -4041.71607646404
**CCAM Sequence ID:** CCAM01187

**Whole Target Classification:** Bedrock
**Lamination Strength:** Absent
**Lamination Expression:** Absent
**Grain Visibility:** Below RMI Image Resolution
**Bedrock Appearance:** Dull
**Nodule Presence:** Pervasive (>50% by Visual Inspection)
**Nodule Diameter:** Large (>3 mm)
**Nodule Resistance:** Protruding
**Fracture Presence:** Pervasive (>20% by Visual Inspection)

| # | Feature | SiO2 (wt%) | TiO2 (wt%) | Al2O3 (wt%) | FeOT (wt%) | MgO (wt%) | CaO (wt%) | Na2O (wt%) | K2O (wt%) | Sum of Oxides (wt%) |
|---|---|---|---|---|---|---|---|---|---|---|
| 1 | Sand | 51.6 | 0.63 | 14.4 | 20.5 | 4.8 | 1.9 | 3.4 | 1.98 | 99.2 |
| 2 | Sand | 47.1 | 0.64 | 9.8 | 19.9 | 14 | 3 | 2.07 | 1 | 97.52 |
| 3 | Nodule | 42.3 | 0.68 | 9.3 | 20.4 | 9.3 | 8.6 | 2.74 | 0.73 | 94.05 |
| 4 | Sand | 50.8 | 0.72 | 12 | 21.7 | 5.4 | 2.7 | 3.15 | 1.62 | 98.1 |
| 5 | Sand | 52.4 | 0.75 | 14.6 | 19.5 | 4.3 | 5.4 | 3.11 | 1.71 | 101.77 |

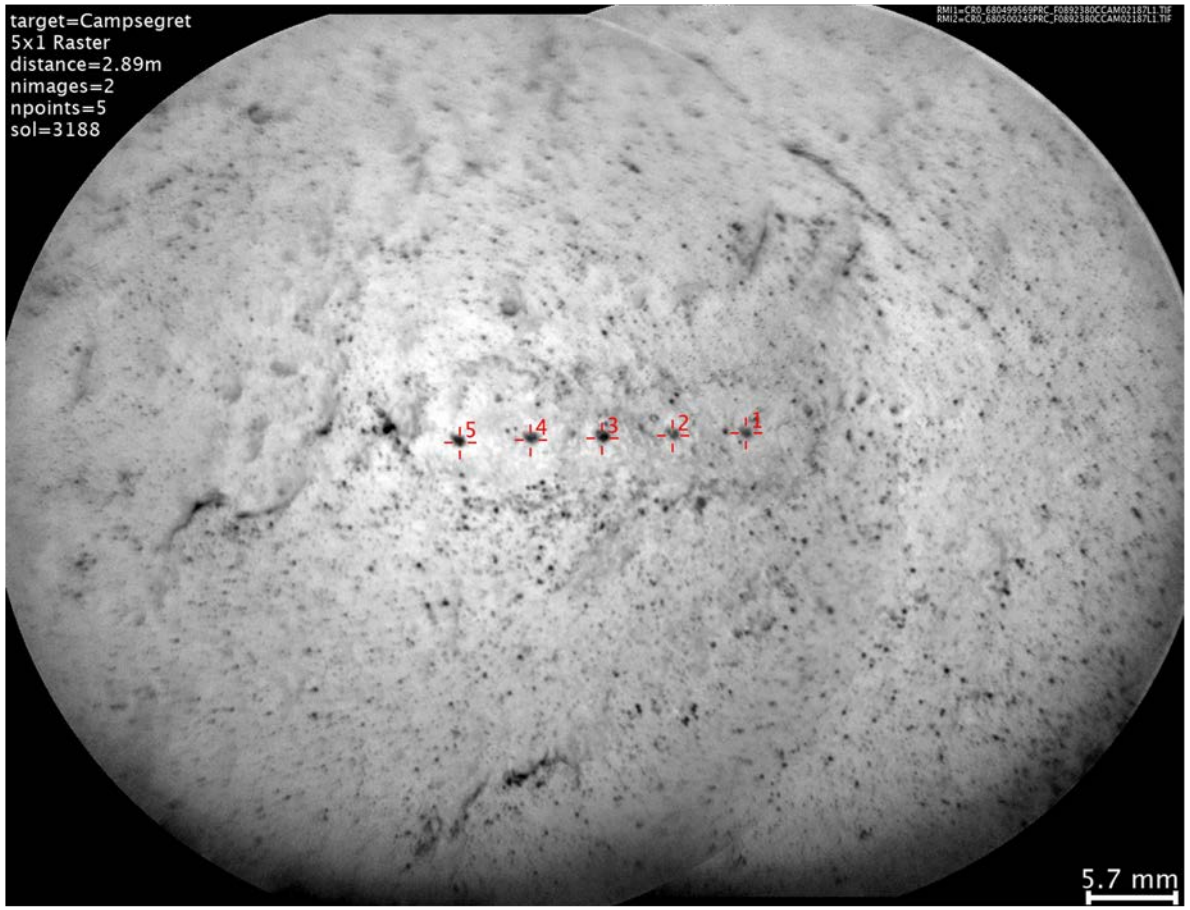


# Target: Campsegret

**Sol:** 3188
**Elev (m.):** -4042.34747366717
**CCAM Sequence ID:** CCAM02187

**Whole Target Classification:** Bedrock
**Lamination Strength:** Absent
**Lamination Expression:** Absent
**Grain Visibility:** Below RMI Image Resolution
**Bedrock Appearance:** Dull
**Nodule Presence:** Absent
**Nodule Diameter:** Large (>3 mm)
**Nodule Resistance:** Protruding
**Fracture Presence:** Occasional (<10% by Visual Inspection)

| # | Feature | SiO2 (wt%) | TiO2 (wt%) | Al2O3 (wt%) | FeOT (wt%) | MgO (wt%) | CaO (wt%) | Na2O (wt%) | K2O (wt%) | Sum of Oxides (wt%) |
|---|---|---|---|---|---|---|---|---|---|---|
| 1 | Bedrock | 49.4 | 0.94 | 10.7 | 19 | 10 | 2.2 | 2.43 | 0.89 | 95.57 |
| 2 | Bedrock | 43.8 | 0.8 | 9.7 | 16.5 | 3.4 | 13.5 | 1.75 | 0.6 | 90.11 |
| 3 | Bedrock | 45.8 | 0.87 | 9.2 | 21 | 9.7 | 1.7 | 2.03 | 0.6 | 90.84 |
| 4 | Bedrock | 47.5 | 0.9 | 9.2 | 19.3 | 12.8 | 1.9 | 2.08 | 0.66 | 94.33 |
| 5 | Bedrock | 46.5 | 0.84 | 10.5 | 21.5 | 10.7 | 2.1 | 2.27 | 0.8 | 95.16 |



# Target: aegis_post_3189a

**Sol:** 3189
**Elev (m.):** -4040.29377341236
**CCAM Sequence ID:** CCAM15905

**Whole Target Classification:** Bedrock
**Lamination Strength:** Absent
**Lamination Expression:** Absent
**Grain Visibility:** Below RMI Image Resolution
**Bedrock Appearance:** Dull
**Nodule Presence:** Common (~30% by Visual Inspection
**Nodule Diameter:** Large (>3 mm)
**Nodule Resistance:** Protruding
**Fracture Presence:** Occasional (<10% by Visual Inspection)

| # | Feature | SiO2 (wt%) | TiO2 (wt%) | Al2O3 (wt%) | FeOT (wt%) | MgO (wt%) | CaO (wt%) | Na2O (wt%) | K2O (wt%) | Sum of Oxides (wt%) |
|---|---|---|---|---|---|---|---|---|---|---|
| 1 | Bedrock | 36 | 0.64 | 6.9 | 14.5 | 5.2 | 16.4 | 1.15 | 0.33 | 81.13 |
| 2 | Bedrock | 41.6 | 0.8 | 8.8 | 24.7 | 3.8 | 7 | 1.85 | 0.55 | 89.13 |
| 3 | Bedrock | 43.1 | 0.77 | 8.7 | 16.4 | 9.9 | 8.7 | 1.58 | 0.48 | 89.59 |
| 4 | Bedrock | 40 | 0.73 | 7.8 | 16.8 | 6.7 | 13.5 | 1.34 | 0.46 | 87.4 |
| 5 | Bedrock | 40.1 | 0.73 | 7.8 | 15.8 | 4.6 | 15.1 | 1.48 | 0.62 | 86.25 |

# Target: Loubejac

**Sol:** 3190
**Elev (m.):** -4039.81111629204
**CCAM Sequence ID:** CCAM01190

**Whole Target Classification:** Bedrock
**Lamination Strength:** Absent
**Lamination Expression:** Absent
**Grain Visibility:** Below RMI Image Resolution
**Bedrock Appearance:** Dull
**Nodule Presence:** Pervasive (>50% by Visual Inspection)
**Nodule Diameter:** Large (>3 mm)
**Nodule Resistance:** Protruding
**Fracture Presence:** Common (~10-20% by Visual Inspection)

| # | Feature | SiO2 (wt%) | TiO2 (wt%) | Al2O3 (wt%) | FeOT (wt%) | MgO (wt%) | CaO (wt%) | Na2O (wt%) | K2O (wt%) | Sum of Oxides (wt%) |
|---|---|---|---|---|---|---|---|---|---|---|
| 1 | Nodule | 38.9 | 0.64 | 7.4 | 26.5 | 7.7 | 1.4 | 4.7 | 0.4 | 87.54 |
| 2 | Nodule | 42.7 | 0.75 | 8.5 | 20.6 | 13.2 | 1.1 | 3.93 | 0.38 | 91.04 |
| 3 | Nodule | 42.6 | 0.75 | 8.1 | 18.2 | 11.7 | 9.8 | 1.68 | 0.41 | 93.24 |
| 4 | Bedrock | 45.1 | 0.88 | 9.9 | 19.5 | 15.7 | 1.7 | 2.19 | 0.68 | 95.64 |
| 5 | Bedrock | 44.8 | 0.88 | 10.5 | 19.4 | 16 | 2 | 2.04 | 0.55 | 96.13 |

# Target: aegis_post_3191a

**Sol:** 3191
**Elev (m.):** -4037.266425

**CCAM Sequence ID:** CCAM15905

**Whole Target Classification:** Bedrock
**Lamination Strength:** Absent
**Lamination Expression:** Absent
**Grain Visibility:** Below RMI Image Resolution
**Bedrock Appearance:** Dull
**Nodule Presence:** Occasional (~10% by Visual Inspection)
**Nodule Diameter:** Large (>3 mm)
**Nodule Resistance:** Protruding
**Fracture Presence:** Absent

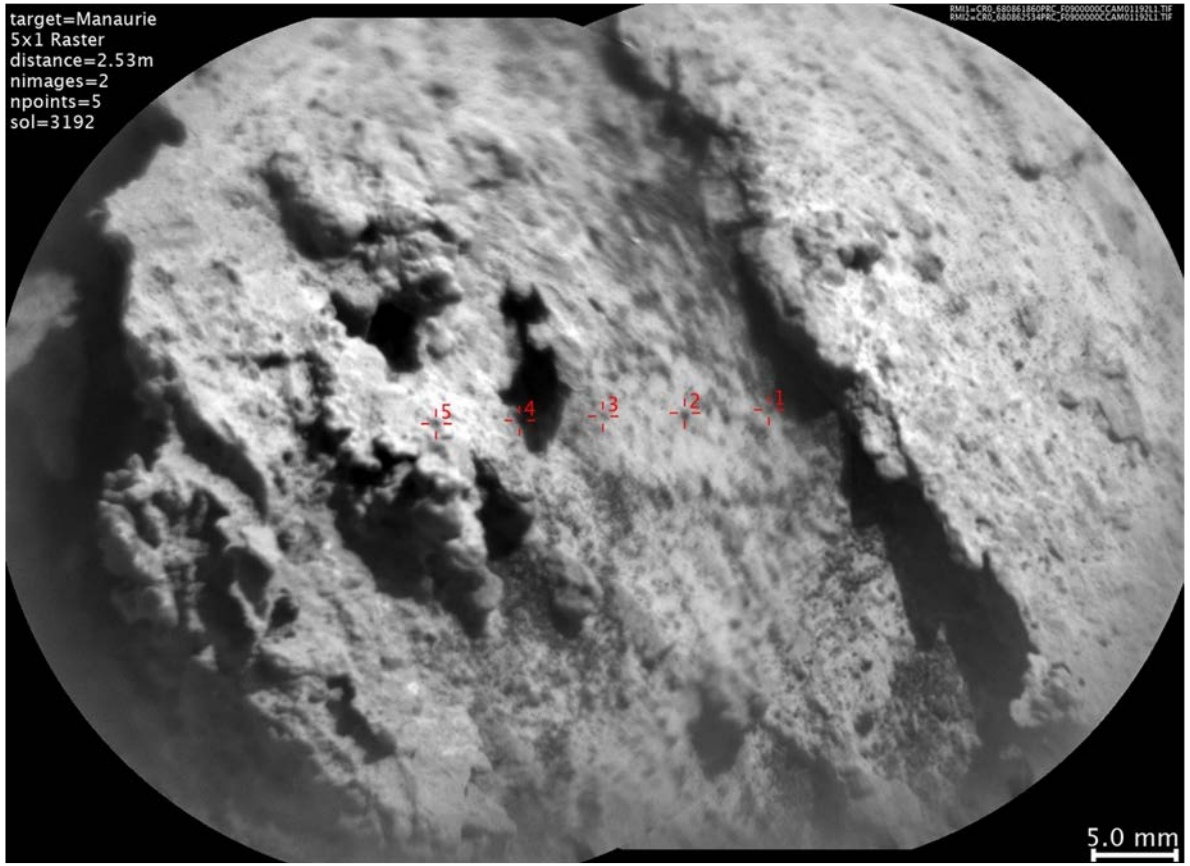
| # | Feature | SiO2 (wt%) | TiO2 (wt%) | Al2O3 (wt%) | FeOT (wt%) | MgO (wt%) | CaO (wt%) | Na2O (wt%) | K2O (wt%) | Sum of Oxides (wt%) |
|---|---|---|---|---|---|---|---|---|---|---|
| 1 | Bedrock | 56.9 | 1.06 | 13.6 | 19.3 | 3.9 | 3.2 | 2.94 | 1.18 | 102.02 |
| 2 | Bedrock | 56.3 | 1.02 | 14.7 | 18.9 | 3.8 | 3.3 | 3.04 | 1.13 | 102.15 |
| 3 | Bedrock | 51.8 | 0.99 | 12.6 | 17.7 | 3.2 | 2.3 | 2.88 | 1.08 | 92.63 |
| 4 | Bedrock | 50 | 0.89 | 11.8 | 20.1 | 4.2 | 4.5 | 2.57 | 0.93 | 94.91 |
| 5 | Bedrock | 35.6 | 0.67 | 6.5 | 12.7 | 2.9 | 21.4 | 1.58 | 0.28 | 81.55 |

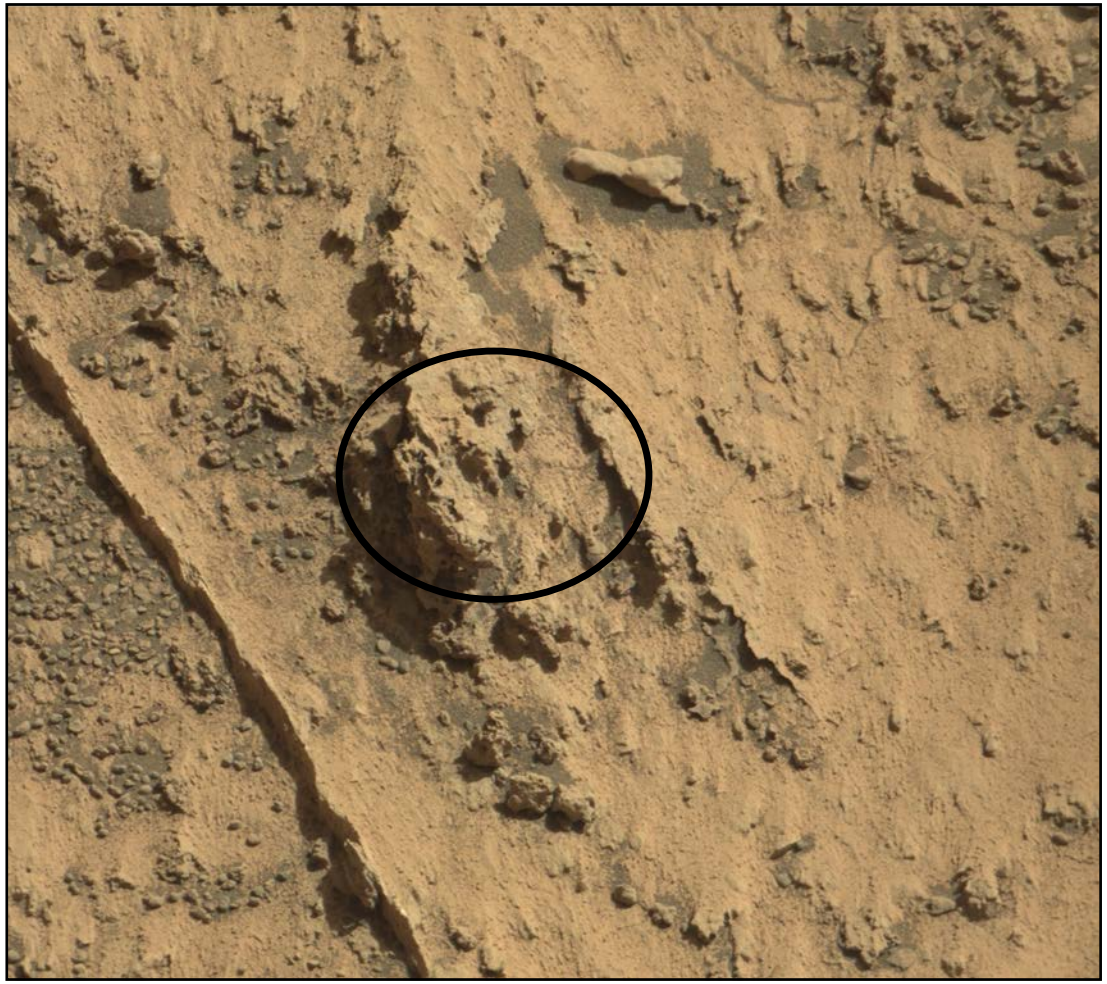
# Target: Manaurie

**Sol:** 3192
**Elev (m.):** -4037.11495920981
**CCAM Sequence ID:** CCAM01192

**Whole Target Classification:** Bedrock
**Lamination Strength:** Absent
**Lamination Expression:** Absent
**Grain Visibility:** Below RMI Image Resolution
**Bedrock Appearance:** Dull
**Nodule Presence:** Pervasive (>50% by Visual Inspection)
**Nodule Diameter:** Large (>3 mm)
**Nodule Resistance:** Protruding
**Fracture Presence:** Occasional (<10% by Visual Inspection)

| # | Feature | SiO2 (wt%) | TiO2 (wt%) | Al2O3 (wt%) | FeOT (wt%) | MgO (wt%) | CaO (wt%) | Na2O (wt%) | K2O (wt%) | Sum of Oxides (wt%) |
|---|---|---|---|---|---|---|---|---|---|---|
| 1 | Bedrock | 44.3 | 0.83 | 9.6 | 28.6 | 3.2 | 1.6 | 2.59 | 0.98 | 91.66 |
| 2 | Bedrock | 41.6 | 0.81 | 7.6 | 32.9 | 2.4 | 1.3 | 1.88 | 0.51 | 89.08 |
| 3 | Bedrock | 46.9 | 0.88 | 9.2 | 17.5 | 13.4 | 2.3 | 2.06 | 0.67 | 92.88 |
| 4 | Bedrock | 47 | 0.73 | 8.5 | 20.1 | 7.7 | 1.4 | 5.21 | 0.54 | 91.31 |
| 5 | Nodule | 44.2 | 0.83 | 8.2 | 20.1 | 9.7 | 1.6 | 2.67 | 0.4 | 87.72 |

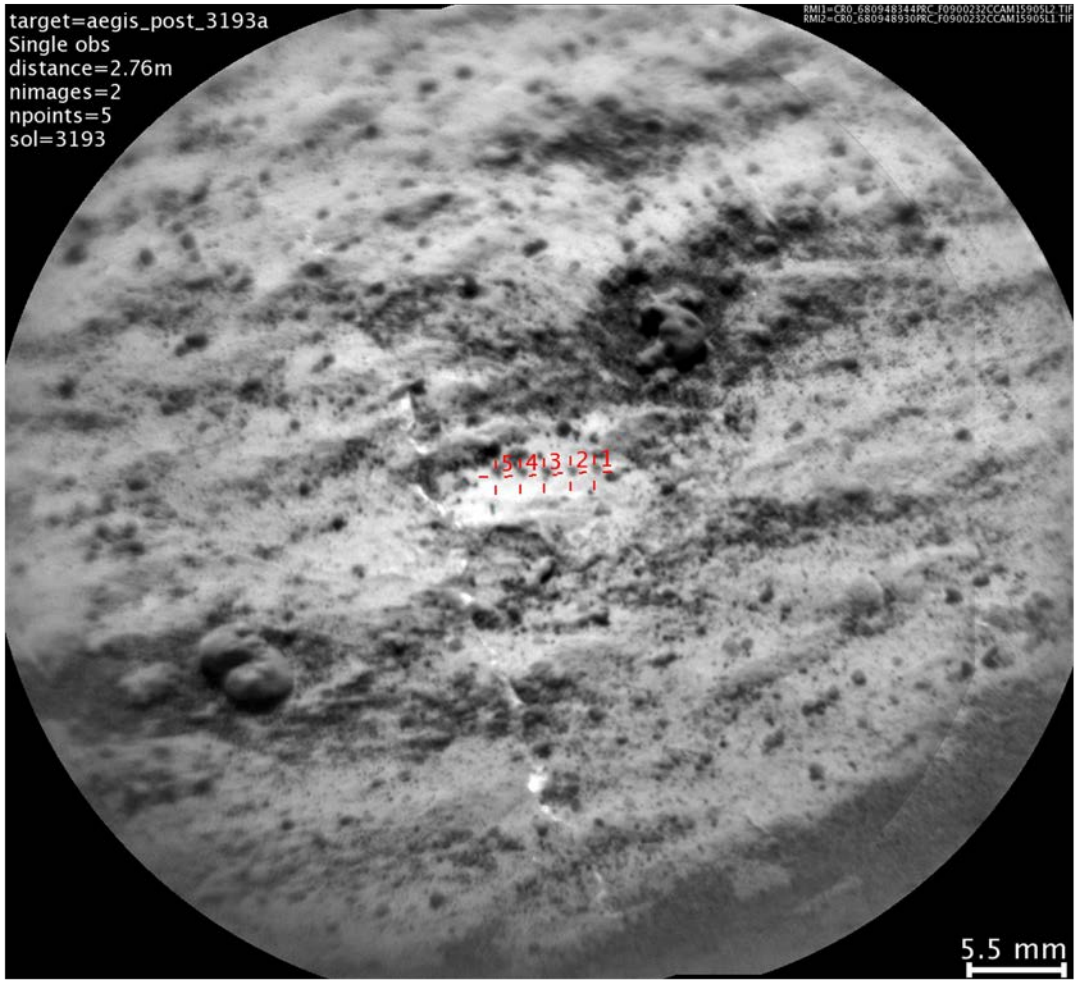


# Target: aegis_post_3193a

**Sol:** 3193
**Elev (m.):** -4038.61154455407
**CCAM Sequence ID:** CCAM15905

**Whole Target Classification:** Bedrock
**Lamination Strength:** Weakly Laminated
**Lamination Expression:** Laminae-Parallel Nodules
**Grain Visibility:** Below RMI Image Resolution
**Bedrock Appearance:** Dull
**Nodule Presence:** Common (~30% by Visual Inspection
**Nodule Diameter:** Small (<1 mm)
**Nodule Resistance:** Protruding
**Fracture Presence:** Occasional (<10% by Visual Inspection)



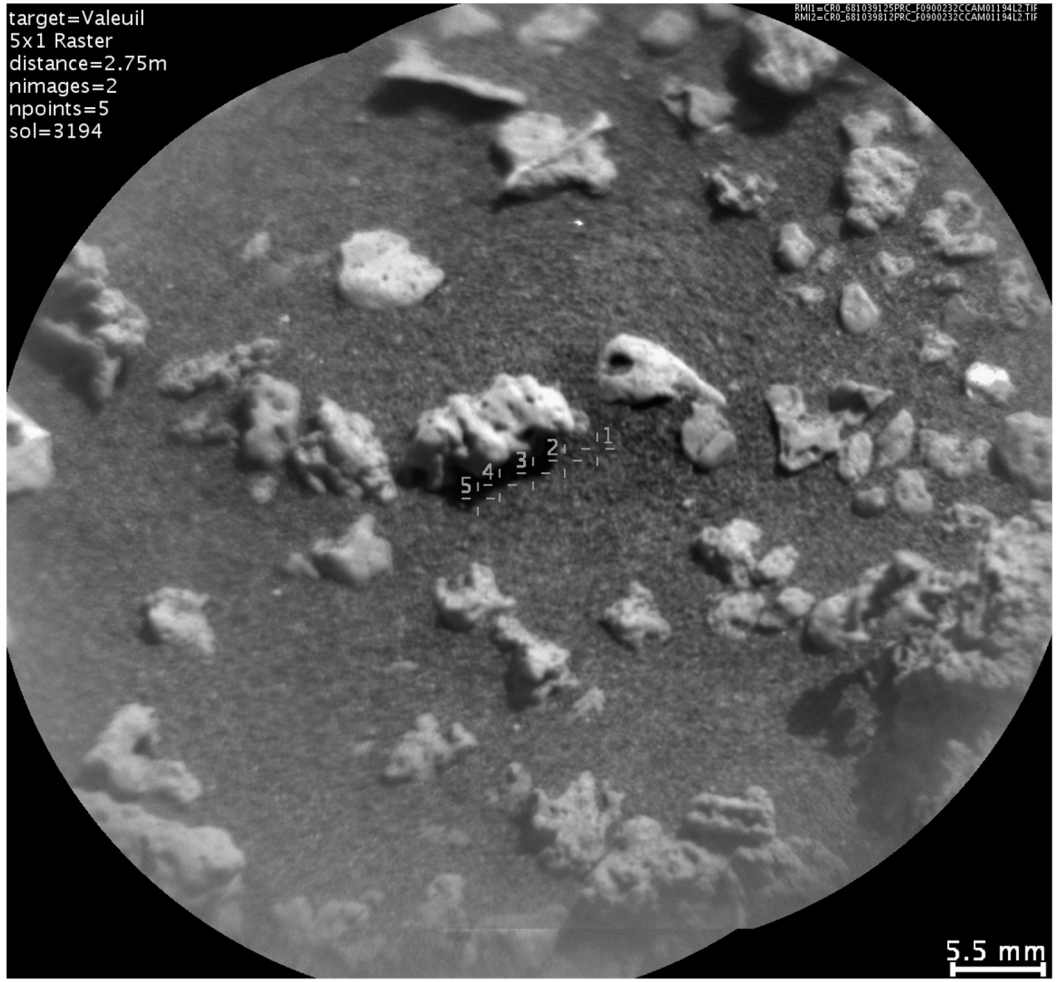

| # | Feature | SiO2 (wt%) | TiO2 (wt%) | Al2O3 (wt%) | FeOT (wt%) | MgO (wt%) | CaO (wt%) | Na2O (wt%) | K2O (wt%) | Sum of Oxides (wt%) |
|---|---|---|---|---|---|---|---|---|---|---|
| 1 | Bedrock | 45.5 | 0.84 | 7.9 | 15.6 | 16.3 | 1.2 | 5.72 | 0.37 | 93.36 |
| 2 | Bedrock | 54.3 | 1.08 | 12.6 | 21.4 | 4 | 2.4 | 2.84 | 1.14 | 99.78 |
| 3 | Bedrock | 55.2 | 1.08 | 12.8 | 20 | 4 | 3.3 | 2.79 | 1.07 | 100.28 |
| 4 | Bedrock | 55.7 | 1.14 | 12.4 | 19.1 | 4.4 | 2.7 | 2.84 | 1.15 | 99.42 |
| 5 | Bedrock | 56.6 | 1.06 | 13.1 | 19.1 | 4 | 3.1 | 2.9 | 1.12 | 101.02 |

# Target: Valeuil

**Sol:** 3194
**Elev (m.):** -4037.99537080194
**CCAM Sequence ID:** CCAM01194

**Whole Target Classification:** Bedrock
**Lamination Strength:** Absent
**Lamination Expression:** Absent
**Grain Visibility:** Below RMI Image Resolution
**Bedrock Appearance:** Dull
**Nodule Presence:** Common (~30% by Visual Inspection
**Nodule Diameter:** Large (>3 mm)
**Nodule Resistance:** Protruding
**Fracture Presence:** Absent

| # | Feature | SiO2 (wt%) | TiO2 (wt%) | Al2O3 (wt%) | FeOT (wt%) | MgO (wt%) | CaO (wt%) | Na2O (wt%) | K2O (wt%) | Sum of Oxides (wt%) |
|---|---|---|---|---|---|---|---|---|---|---|
| 1 | Sand | 42 | 0.8 | 8.9 | 18.7 | 7.6 | 7.4 | 1.86 | 0.23 | 87.49 |
| 2 | Sand | 42.9 | 0.78 | 9.6 | 18.7 | 8.6 | 7.1 | 1.69 | 0.2 | 89.61 |
| 3 | Sand | 36.3 | 0.64 | 7.6 | 22.6 | 13.5 | 5.7 | 1.44 | 0.15 | 87.92 |
| 4 | Sand | 40.4 | 0.84 | 7.9 | 19.6 | 7.6 | 6.6 | 1.83 | 0.24 | 85.04 |
| 5 | Sand | 40.4 | 0.83 | 8.1 | 19.6 | 7.2 | 5.8 | 3.19 | 0.23 | 85.41 |

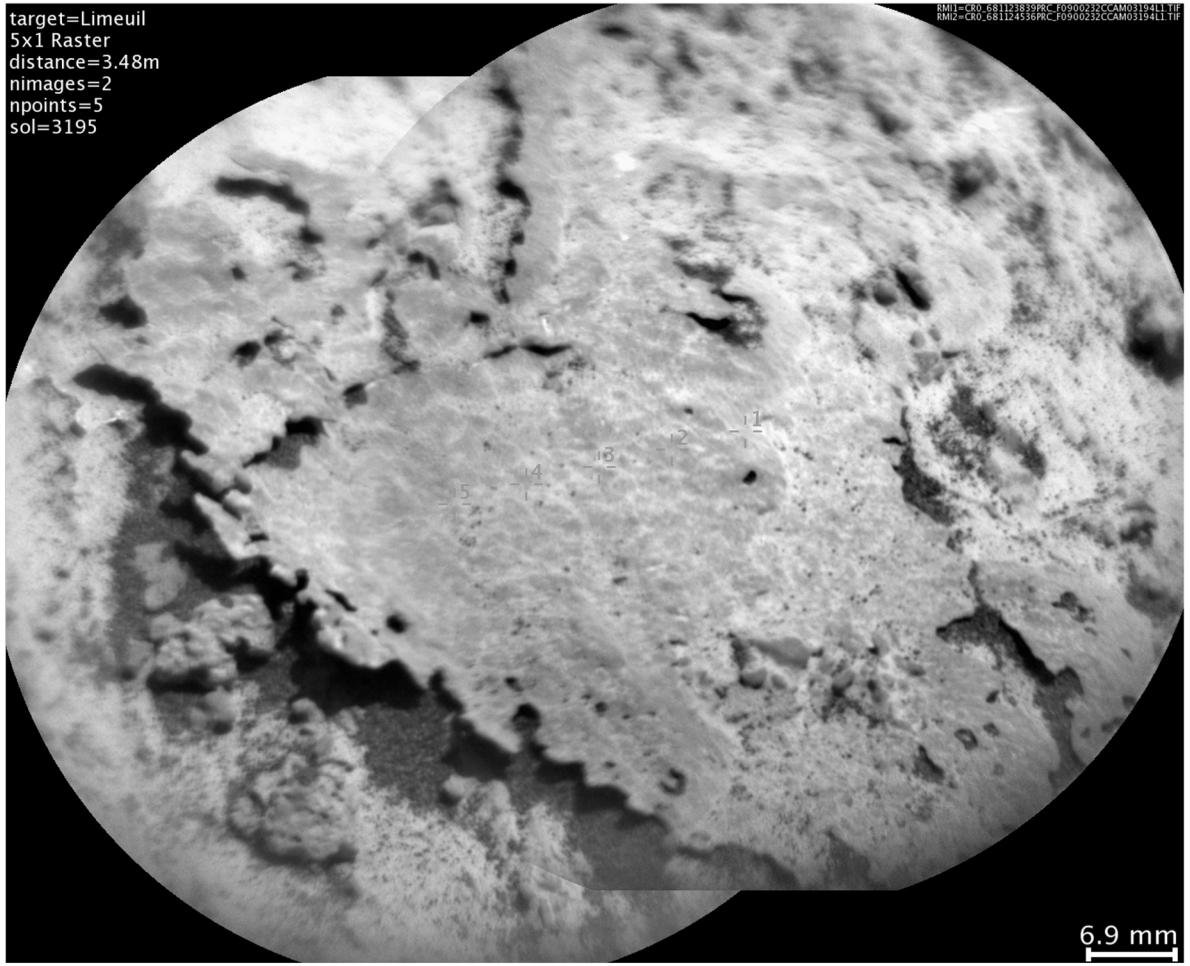


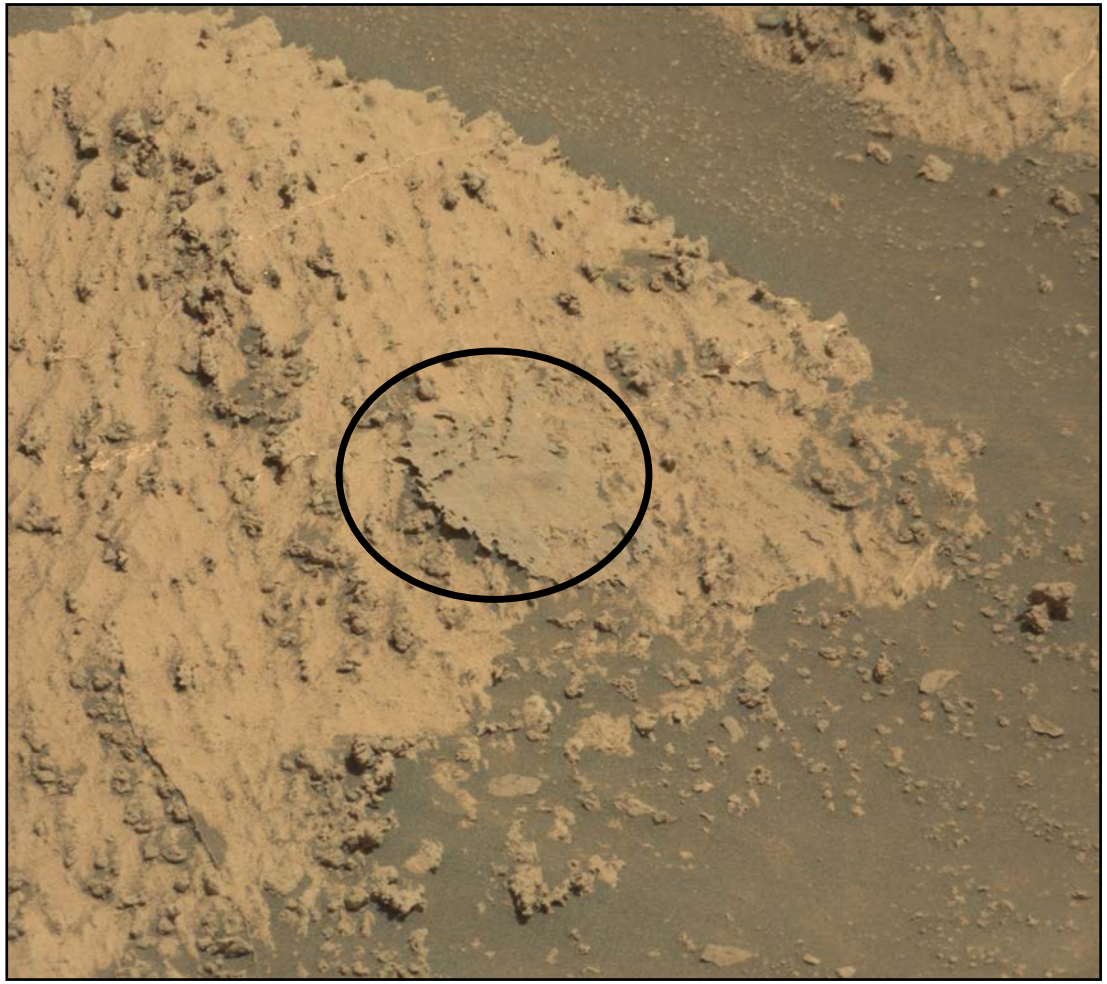
# Target: Limeuil

**Sol:** 3195
**Elev (m.):** -4037.99880403374
**CCAM Sequence ID:** CCAM03194

**Whole Target Classification:** Bedrock
**Lamination Strength:** Absent
**Lamination Expression:** Absent
**Grain Visibility:** Below RMI Image Resolution
**Bedrock Appearance:** Dull
**Nodule Presence:** Common (~30% by Visual Inspection
**Nodule Diameter:** Large (>3 mm)
**Nodule Resistance:** Protruding
**Fracture Presence:** Occasional (<10% by Visual Inspection)

| # | Feature | SiO2 (wt%) | TiO2 (wt%) | Al2O3 (wt%) | FeOT (wt%) | MgO (wt%) | CaO (wt%) | Na2O (wt%) | K2O (wt%) | Sum of Oxides (wt%) |
|---|---|---|---|---|---|---|---|---|---|---|
| 1 | Vein or Fracture | 50.3 | 0.73 | 11 | 9.4 | 2.5 | 3.1 | 14.75 | 0.28 | 92.06 |
| 2 | Vein or Fracture | 46.1 | 0.66 | 8 | 14 | 2.8 | 0 | 16.99 | 0.27 | 88.83 |
| 3 | Vein or Fracture | 41.4 | 0.72 | 9 | 15.3 | 8.9 | 4.7 | 8.33 | 0.24 | 88.53 |
| 4 | Vein or Fracture | 36.8 | 0.75 | 7.9 | 9.6 | 2.2 | 7.3 | 13.09 | 0.24 | 77.9 |
| 5 | Vein or Fracture | 50.4 | 0.71 | 9.6 | 11.4 | 5.9 | 1.6 | 13.78 | 0.29 | 93.7 |

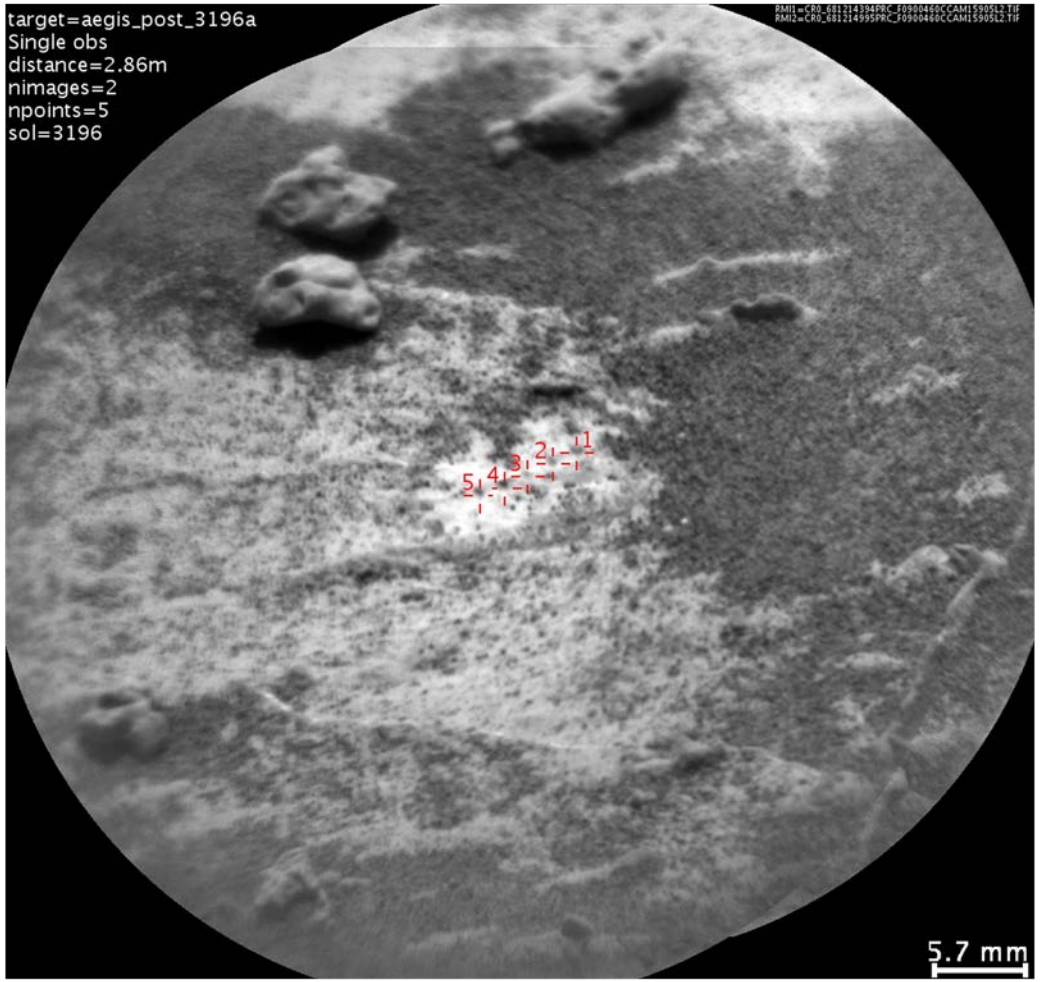


# Target: aegis_post_3196a

**Sol:** 3196
**Elev (m.):** -4038.872217
**CCAM Sequence ID:** CCAM15905

**Whole Target Classification:** Bedrock
**Lamination Strength:** Absent
**Lamination Expression:** Absent
**Grain Visibility:** Below RMI Image Resolution
**Bedrock Appearance:** Dull
**Nodule Presence:** Occasional (~10% by Visual Inspection)
**Nodule Diameter:** Medium (1 - 3 mm)
**Nodule Resistance:** Protruding
**Fracture Presence:** Occasional (<10% by Visual Inspection)




| # | Feature | SiO2 (wt%) | TiO2 (wt%) | Al2O3 (wt%) | FeOT (wt%) | MgO (wt%) | CaO (wt%) | Na2O (wt%) | K2O (wt%) | Sum of Oxides (wt%) |
|---|---|---|---|---|---|---|---|---|---|---|
| 1 | Bedrock | 50.1 | 0.88 | 12.4 | 19.8 | 3 | 2.4 | 2.92 | 0.95 | 92.48 |
| 2 | Bedrock | 54.7 | 1 | 13.7 | 19.1 | 5.1 | 2.8 | 3.21 | 1.08 | 100.62 |
| 3 | Bedrock | 40.6 | 0.7 | 8 | 14.2 | 2.8 | 17.1 | 1.38 | 0.46 | 85.27 |
| 4 | Bedrock | 44.4 | 0.87 | 10.1 | 23.6 | 3.3 | 5.6 | 2.23 | 0.64 | 90.74 |
| 5 | Bedrock | 45.5 | 0.82 | 9.7 | 17.3 | 3.5 | 11.7 | 1.87 | 0.61 | 90.92 |

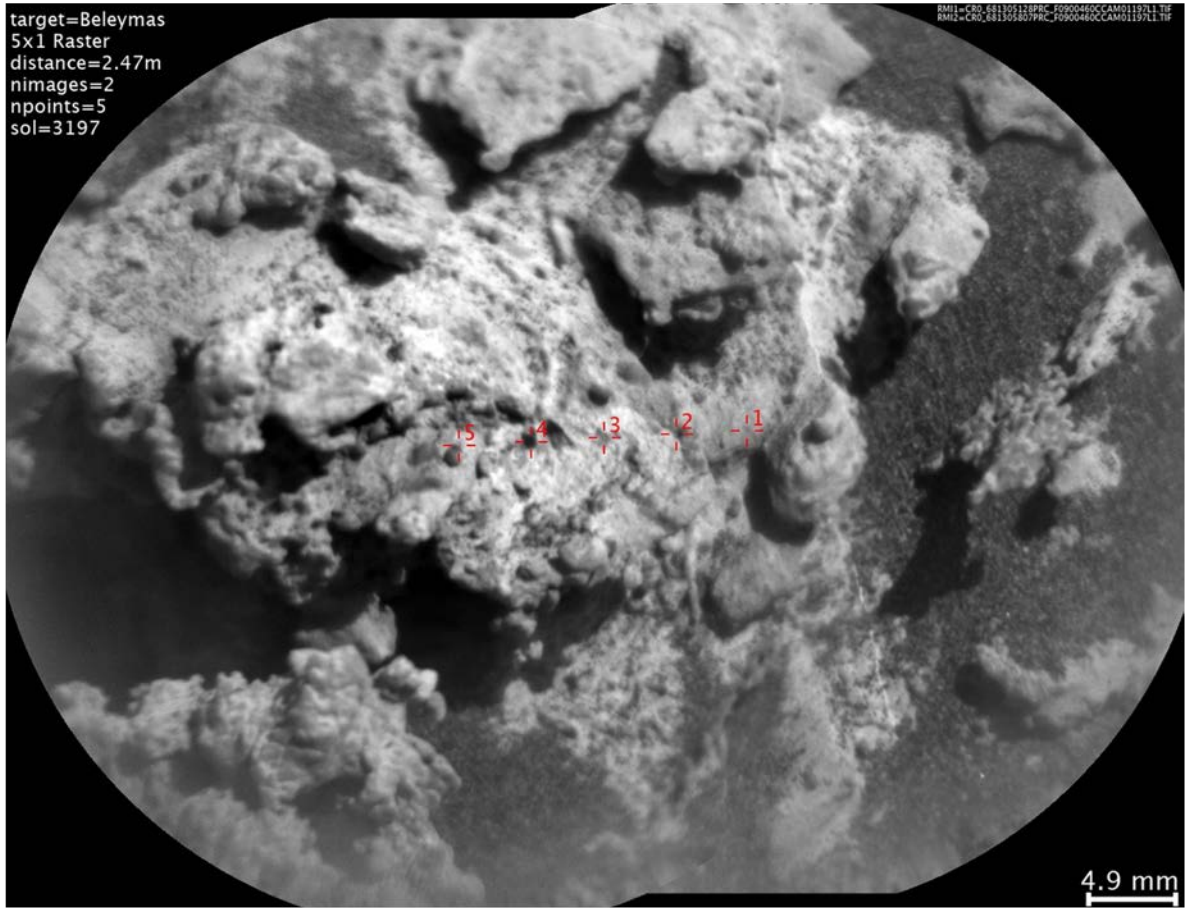
# Target: Beleymas

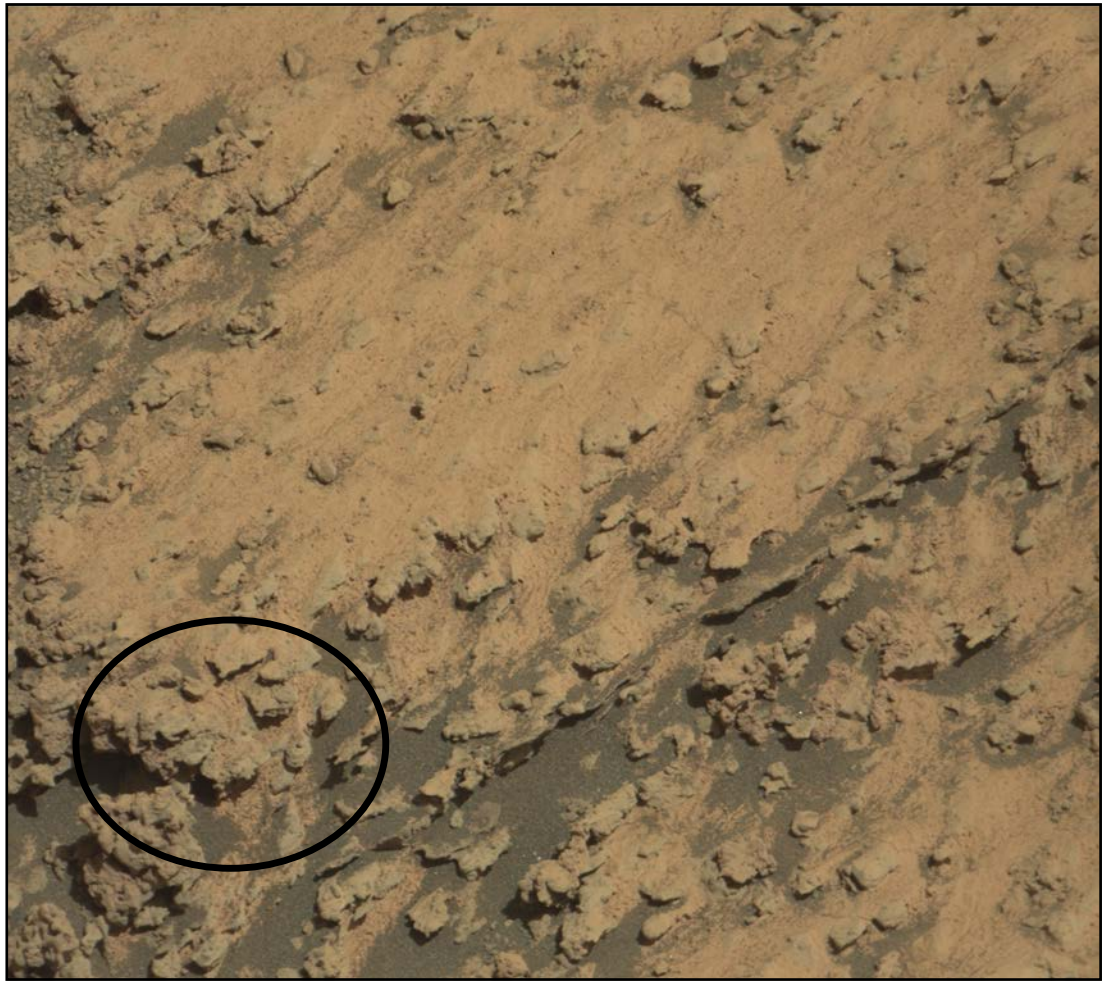
**Sol:** 3197
**Elev (m.):** -4038.031352

**CCAM Sequence ID:** CCAM01197

**Whole Target Classification:** Bedrock
**Lamination Strength:** Absent
**Lamination Expression:** Absent
**Grain Visibility:** Below RMI Image Resolution
**Bedrock Appearance:** Dull
**Nodule Presence:** Pervasive (>50% by Visual Inspection)
**Nodule Diameter:** Large (>3 mm)
**Nodule Resistance:** Protruding
**Fracture Presence:** Common (~10-20% by Visual Inspection)

| # | Feature | SiO2 (wt%) | TiO2 (wt%) | Al2O3 (wt%) | FeOT (wt%) | MgO (wt%) | CaO (wt%) | Na2O (wt%) | K2O (wt%) | Sum of Oxides (wt%) |
|---|---|---|---|---|---|---|---|---|---|---|
| 1 | Nodule | 35.5 | 0.67 | 6.5 | 15.1 | 5.4 | 16.1 | 1.23 | 0.37 | 80.78 |
| 2 | Nodule | 48.9 | 0.88 | 9.8 | 21.1 | 4.1 | 2.2 | 2.8 | 1.16 | 90.96 |
| 3 | Nodule | 39.4 | 0.75 | 7.8 | 17.8 | 9.3 | 10.7 | 1.5 | 0.37 | 87.64 |
| 4 | Nodule | 41.8 | 0.75 | 9.1 | 32.3 | 2.7 | 1.6 | 2.26 | 0.71 | 91.23 |
| 5 | Nodule | 37.5 | 0.68 | 8.1 | 33.2 | 3.9 | 5.7 | 2.49 | 0.45 | 91.99 |



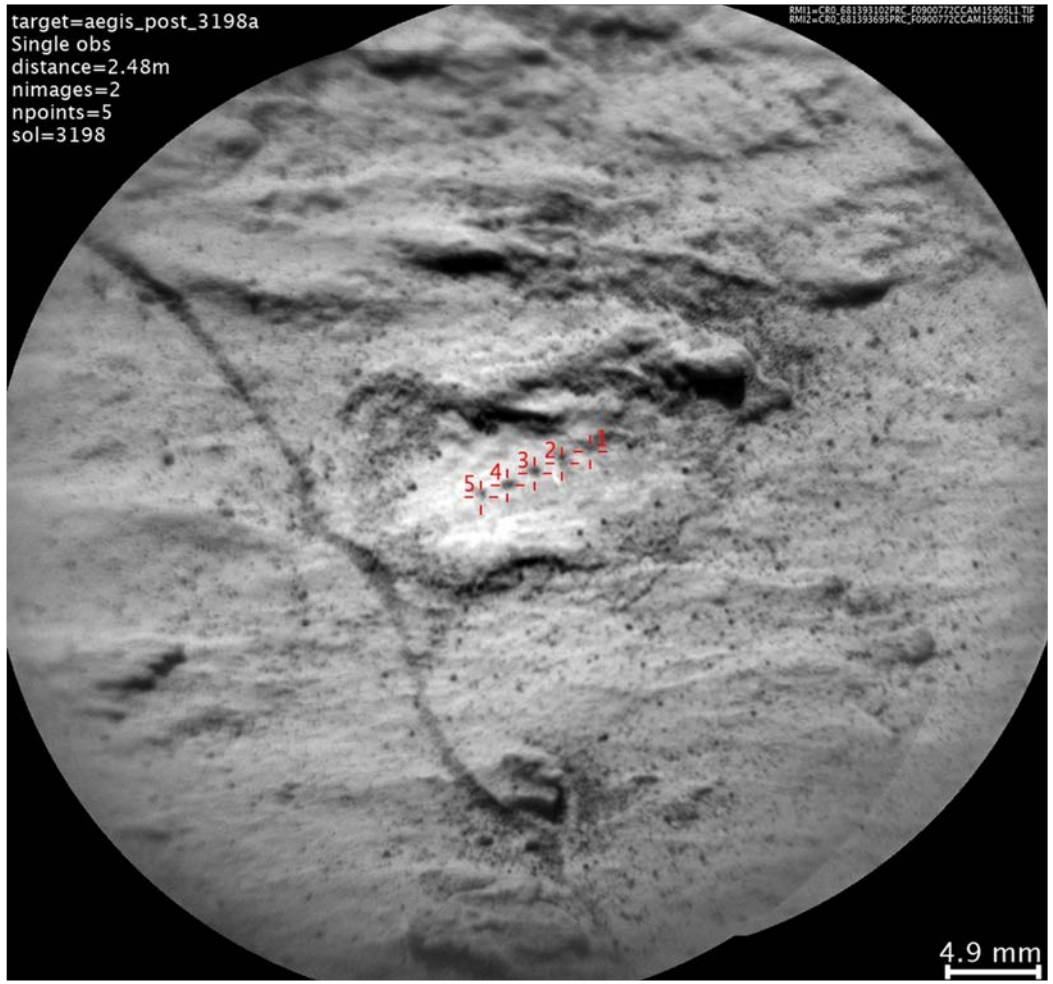
# Target: aegis_post_3198a

**Sol:** 3198
**Elev (m.):** -4036.353127

**CCAM Sequence ID:** CCAM15905

**Whole Target Classification:** Bedrock
**Lamination Strength:** Absent
**Lamination Expression:** Absent
**Grain Visibility:** Below RMI Image Resolution
**Bedrock Appearance:** Dull
**Nodule Presence:** Common (~30% by Visual Inspection
**Nodule Diameter:** Medium (1 - 3 mm)
**Nodule Resistance:** Protruding
**Fracture Presence:** Occasional (<10% by Visual Inspection)

| # | Feature | SiO2 (wt%) | TiO2 (wt%) | Al2O3 (wt%) | FeOT (wt%) | MgO (wt%) | CaO (wt%) | Na2O (wt%) | K2O (wt%) | Sum of Oxides (wt%) |
|---|---|---|---|---|---|---|---|---|---|---|
| 1 | Bedrock | 44.1 | 0.83 | 9 | 16.6 | 5.7 | 10.5 | 1.83 | 0.63 | 89.27 |
| 2 | Bedrock | 51.2 | 0.93 | 10.3 | 20 | 4.4 | 2.3 | 2.42 | 0.84 | 92.35 |
| 3 | Bedrock | 49.7 | 0.95 | 10.8 | 20.4 | 5.4 | 3.8 | 2.48 | 0.82 | 94.35 |
| 4 | Bedrock | 43.9 | 0.84 | 9.2 | 21.4 | 6.3 | 5.2 | 2.06 | 0.67 | 89.49 |
| 5 | Bedrock | 41.5 | 0.72 | 7.9 | 14.6 | 3.3 | 16.4 | 1.34 | 0.42 | 86.08 |



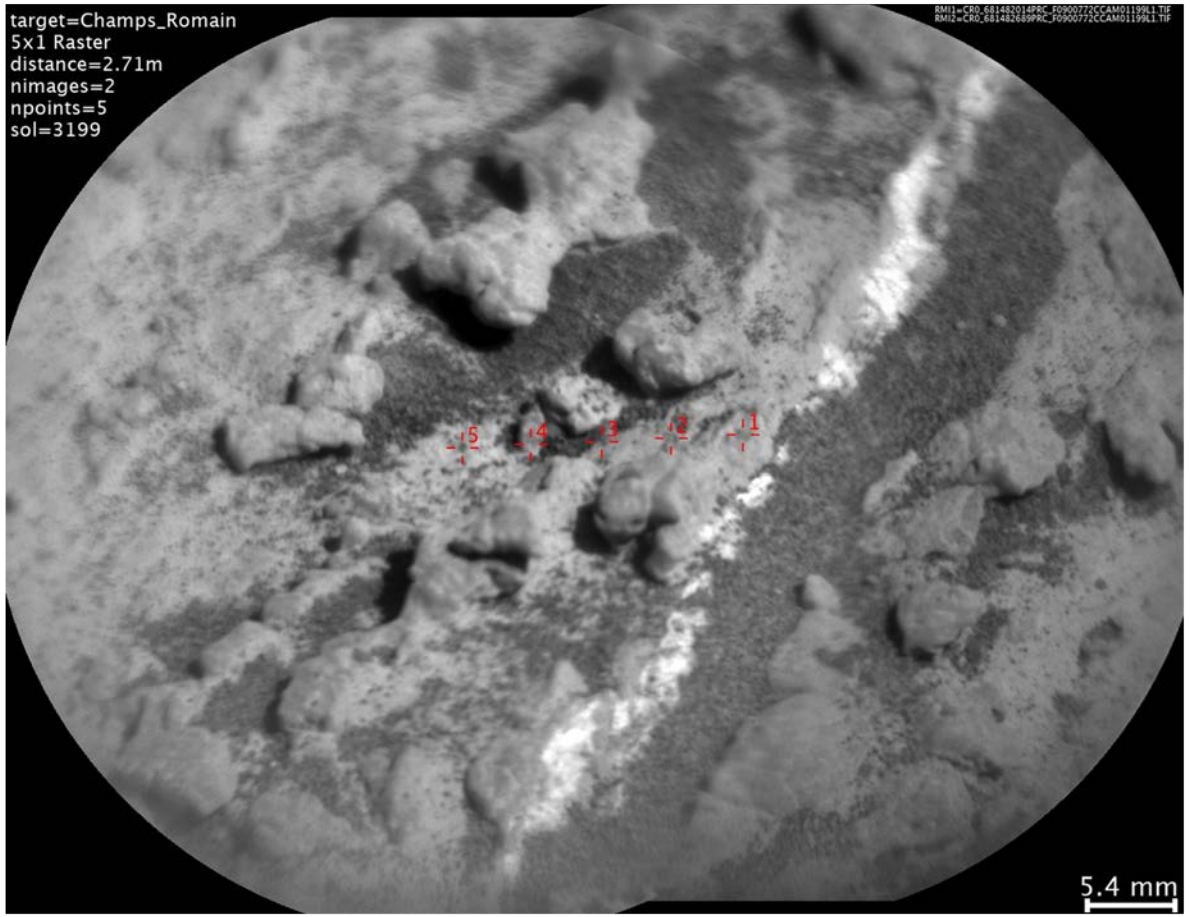
# Target: Champs_Romain

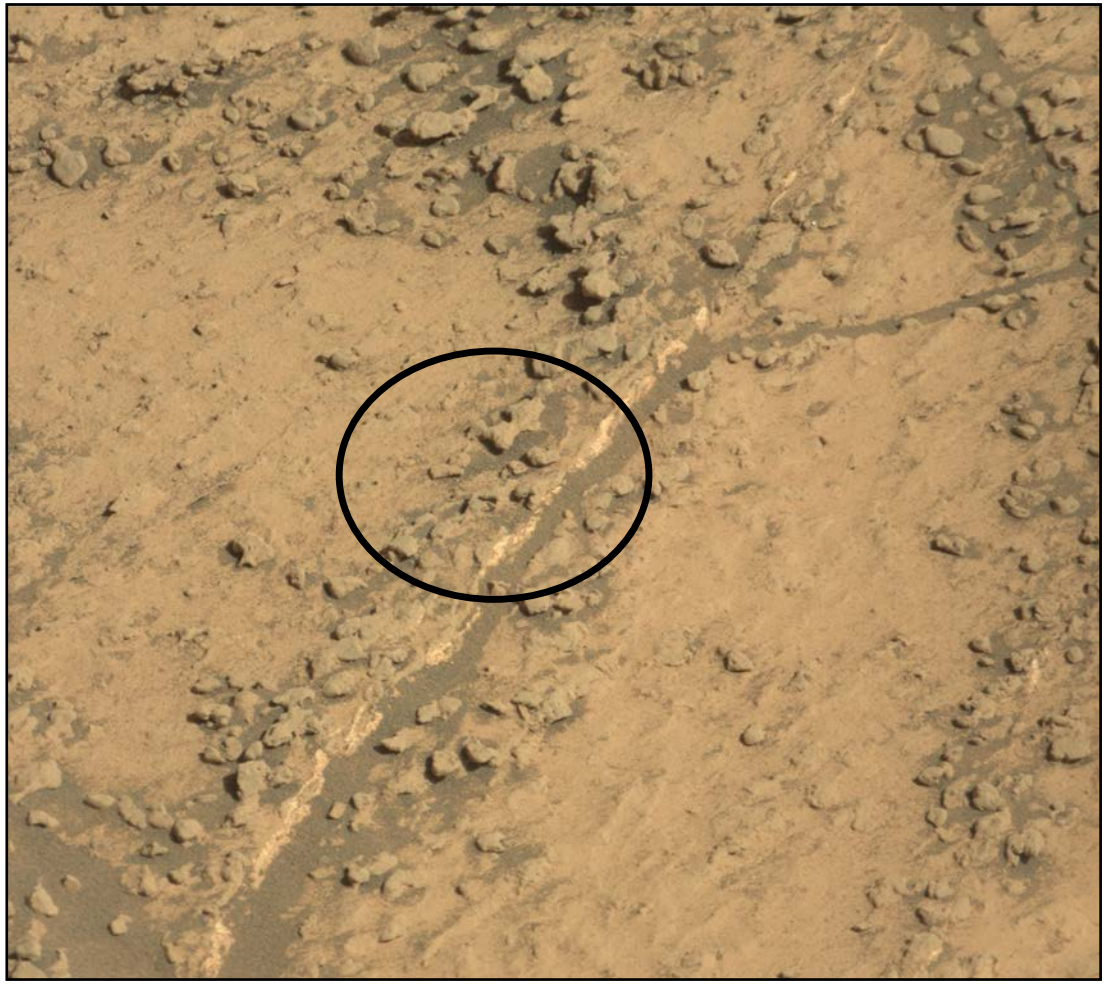
**Sol:** 3199
**Elev (m.):** -4036.148017

**CCAM Sequence ID:** CCAM01199

**Whole Target Classification:** Bedrock
**Lamination Strength:** Absent
**Lamination Expression:** Absent
**Grain Visibility:** Below RMI Image Resolution
**Bedrock Appearance:** Dull
**Nodule Presence:** Pervasive (>50% by Visual Inspection)
**Nodule Diameter:** Large (>3 mm)
**Nodule Resistance:** Protruding
**Fracture Presence:** Occasional (<10% by Visual Inspection)

| # | Feature | SiO2 (wt%) | TiO2 (wt%) | Al2O3 (wt%) | FeOT (wt%) | MgO (wt%) | CaO (wt%) | Na2O (wt%) | K2O (wt%) | Sum of Oxides (wt%) |
|---|---|---|---|---|---|---|---|---|---|---|
| 1 | Nodule | 47.9 | 0.7 | 9.8 | 12.9 | 10 | 0.8 | 11.24 | 0.32 | 93.58 |
| 2 | Nodule | 49 | 0.94 | 10.4 | 18.2 | 13.2 | 2.3 | 2.11 | 0.66 | 96.74 |
| 3 | Nodule | 49.9 | 0.98 | 9.7 | 20.6 | 4.8 | 2.9 | 2.11 | 0.65 | 91.62 |
| 4 | Nodule | 38.4 | 0.8 | 6.7 | 16.1 | 23.2 | 1.3 | 1.33 | 0.29 | 87.98 |
| 5 | Nodule | 45.5 | 0.85 | 8.5 | 20 | 12.6 | 1.9 | 1.87 | 0.47 | 91.75 |



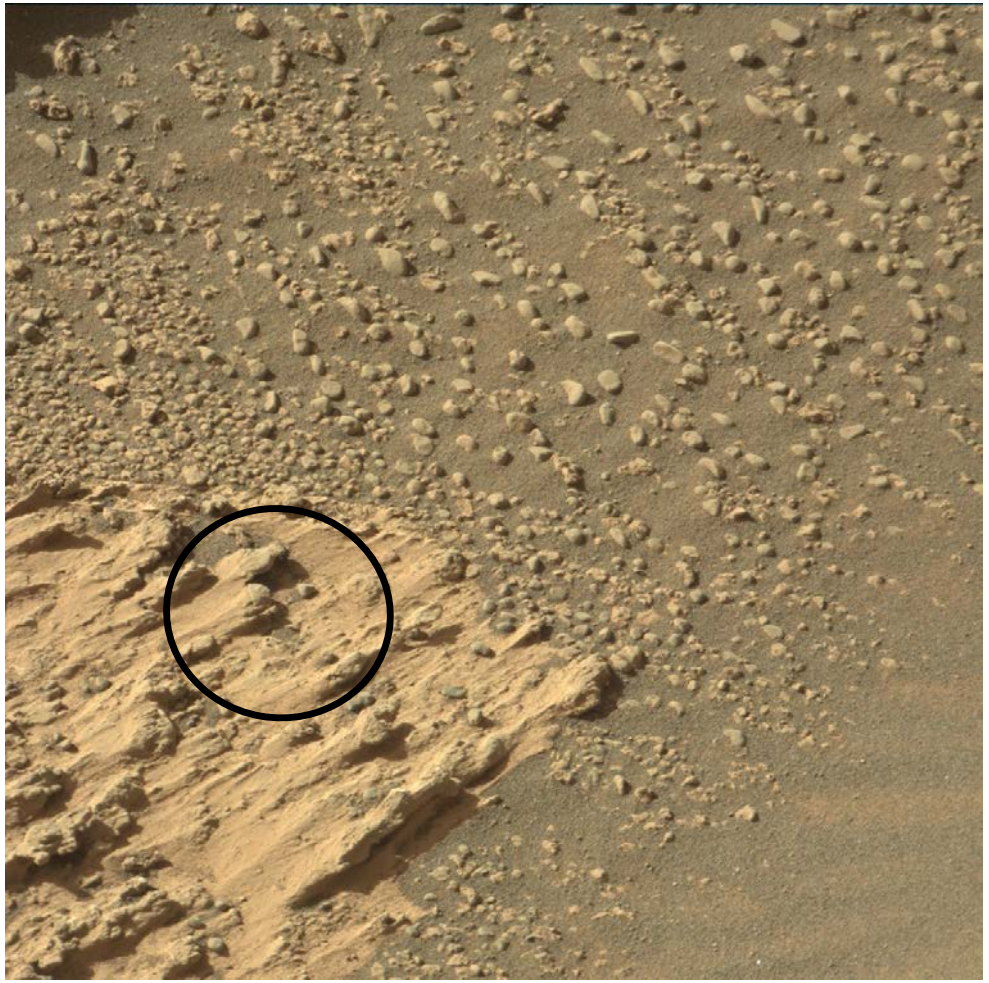
# Target: aegis_post_3200a

**Sol:** 3200
**Elev (m.):** -4035.8078

**CCAM Sequence ID:**

**Whole Target Classification:** Bedrock
**Lamination Strength:** Absent
**Lamination Expression:** Absent
**Grain Visibility:** Below RMI Image Resolution
**Bedrock Appearance:** Dull
**Nodule Presence:** Common (~30% by Visual Inspection
**Nodule Diameter:** Medium (1 - 3 mm)
**Nodule Resistance:** Protruding
**Fracture Presence:** Absent

| # | Feature | SiO2 (wt%) | TiO2 (wt%) | Al2O3 (wt%) | FeOT (wt%) | MgO (wt%) | CaO (wt%) | Na2O (wt%) | K2O (wt%) | Sum of Oxides (wt%) |
|---|---|---|---|---|---|---|---|---|---|---|



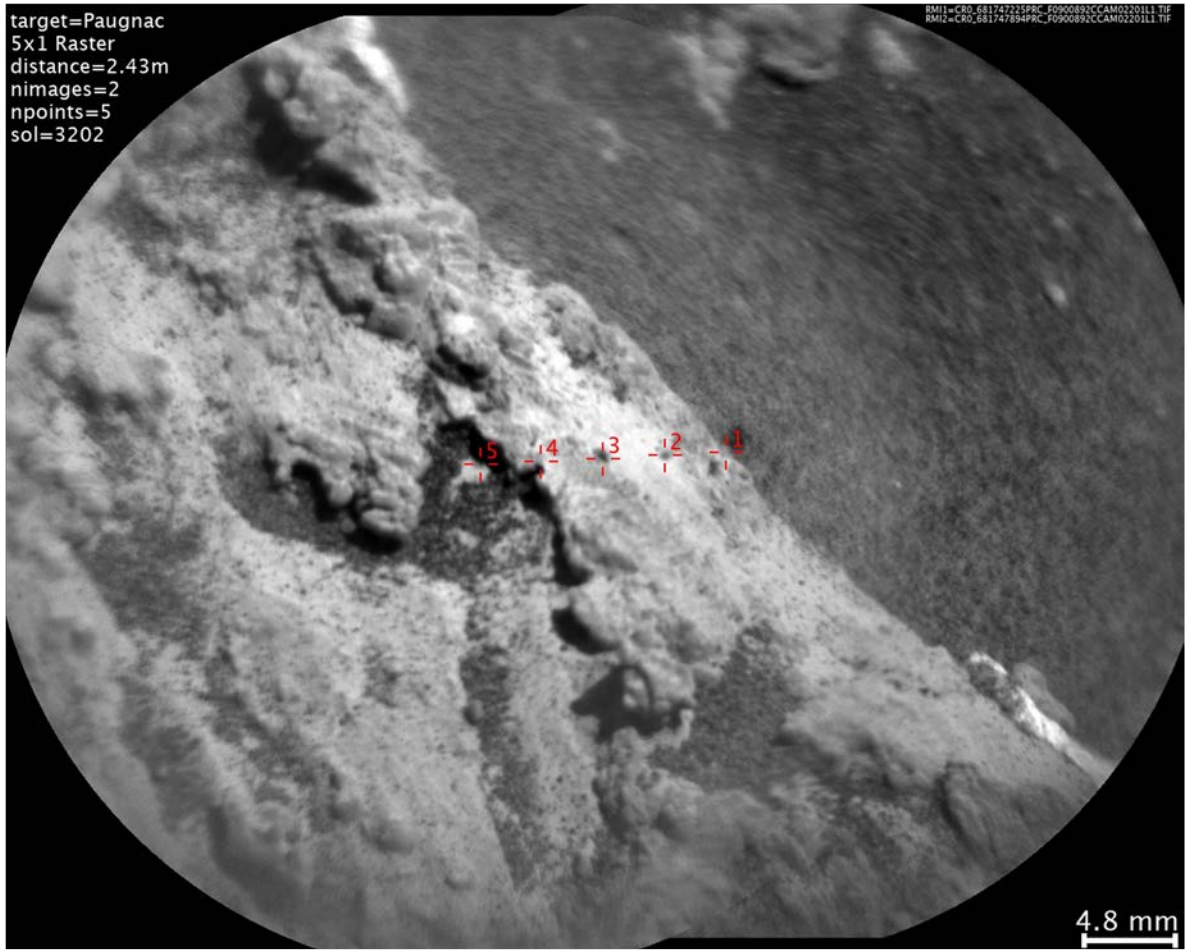
# Target: Paugnac

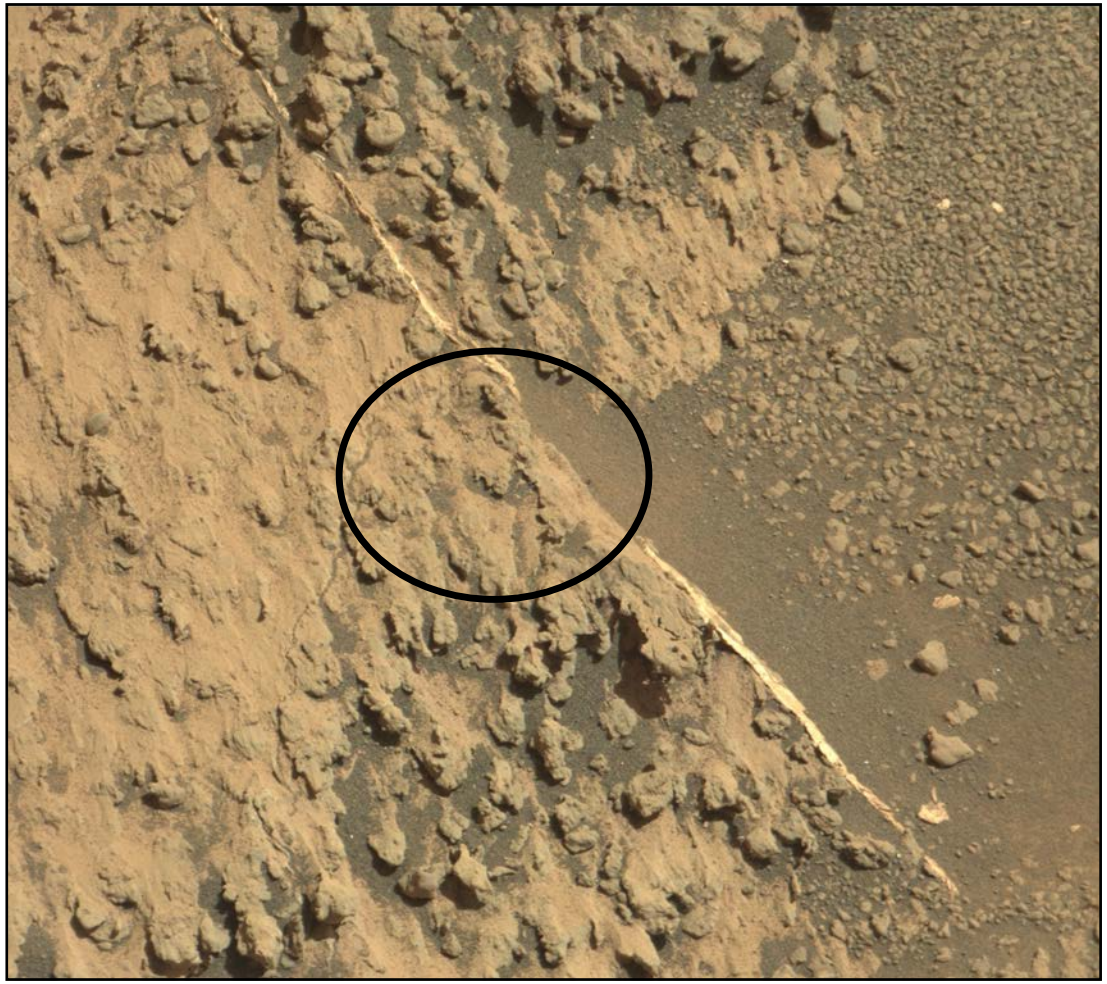
**Sol:** 3202
**Elev (m.):** -4035.894704

**CCAM Sequence ID:** CCAM02201

**Whole Target Classification:** Bedrock
**Lamination Strength:** Absent
**Lamination Expression:** Absent
**Grain Visibility:** Below RMI Image Resolution
**Bedrock Appearance:** Dull
**Nodule Presence:** Pervasive (>50% by Visual Inspection)
**Nodule Diameter:** Large (>3 mm)
**Nodule Resistance:** Protruding
**Fracture Presence:** Occasional (<10% by Visual Inspection)

| # | Feature | SiO2 (wt%) | TiO2 (wt%) | Al2O3 (wt%) | FeOT (wt%) | MgO (wt%) | CaO (wt%) | Na2O (wt%) | K2O (wt%) | Sum of Oxides (wt%) |
|---|---|---|---|---|---|---|---|---|---|---|
| 1 | Vein or Fracture | 41 | 0.66 | 6.4 | 15.2 | 21.2 | 1.5 | 1.45 | 0.37 | 87.79 |
| 2 | Vein or Fracture | 48 | 0.97 | 9.1 | 20.6 | 7.9 | 2.3 | 2.36 | 0.7 | 91.87 |
| 3 | Vein or Fracture | 49 | 1.02 | 10.8 | 19.2 | 4.7 | 2.5 | 2.38 | 0.7 | 90.33 |
| 4 | Vein or Fracture | 36.8 | 0.75 | 6.3 | 12.4 | 2.9 | 20 | 1.07 | 0.34 | 80.44 |
| 5 | Vein or Fracture | 49.6 | 0.88 | 10.1 | 18 | 11.1 | 2.8 | 2.09 | 0.56 | 95.1 |



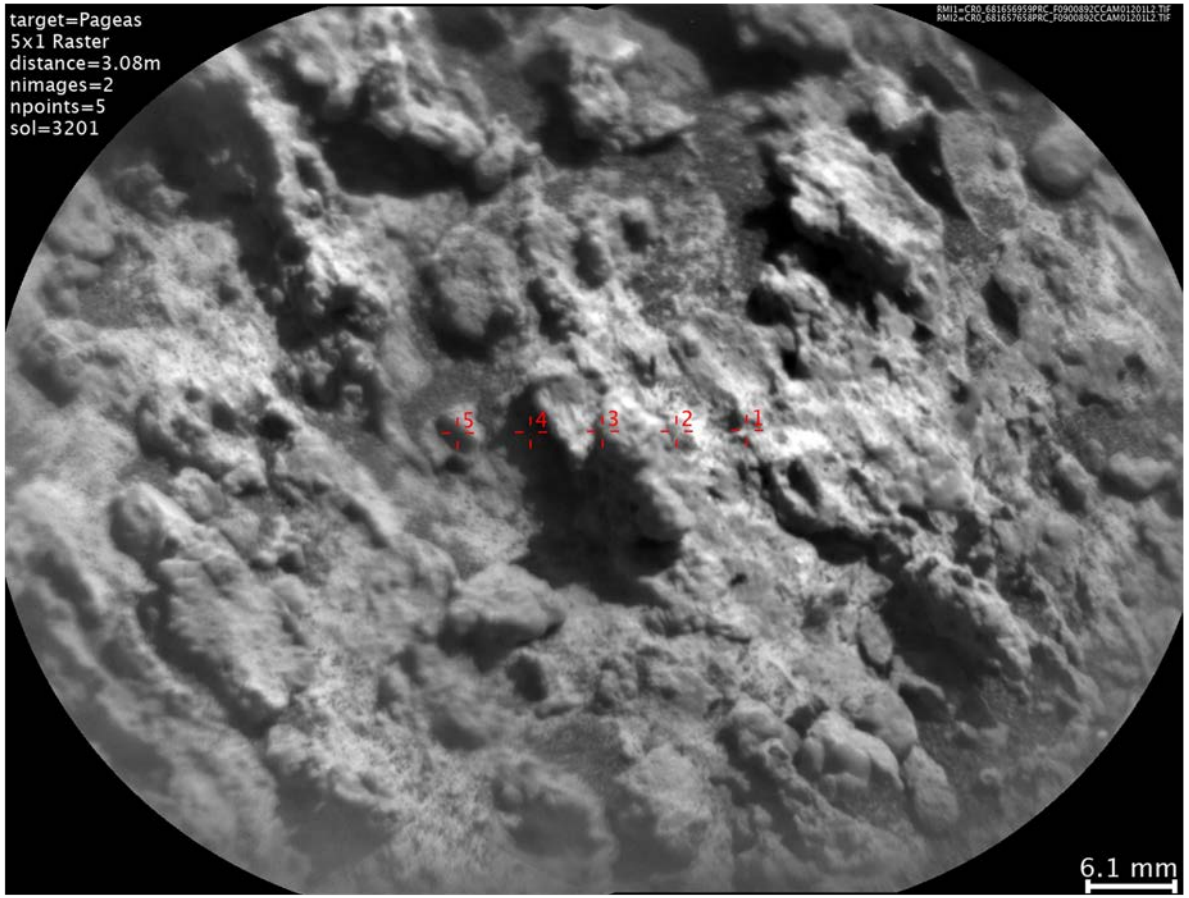
# Target: Pageas

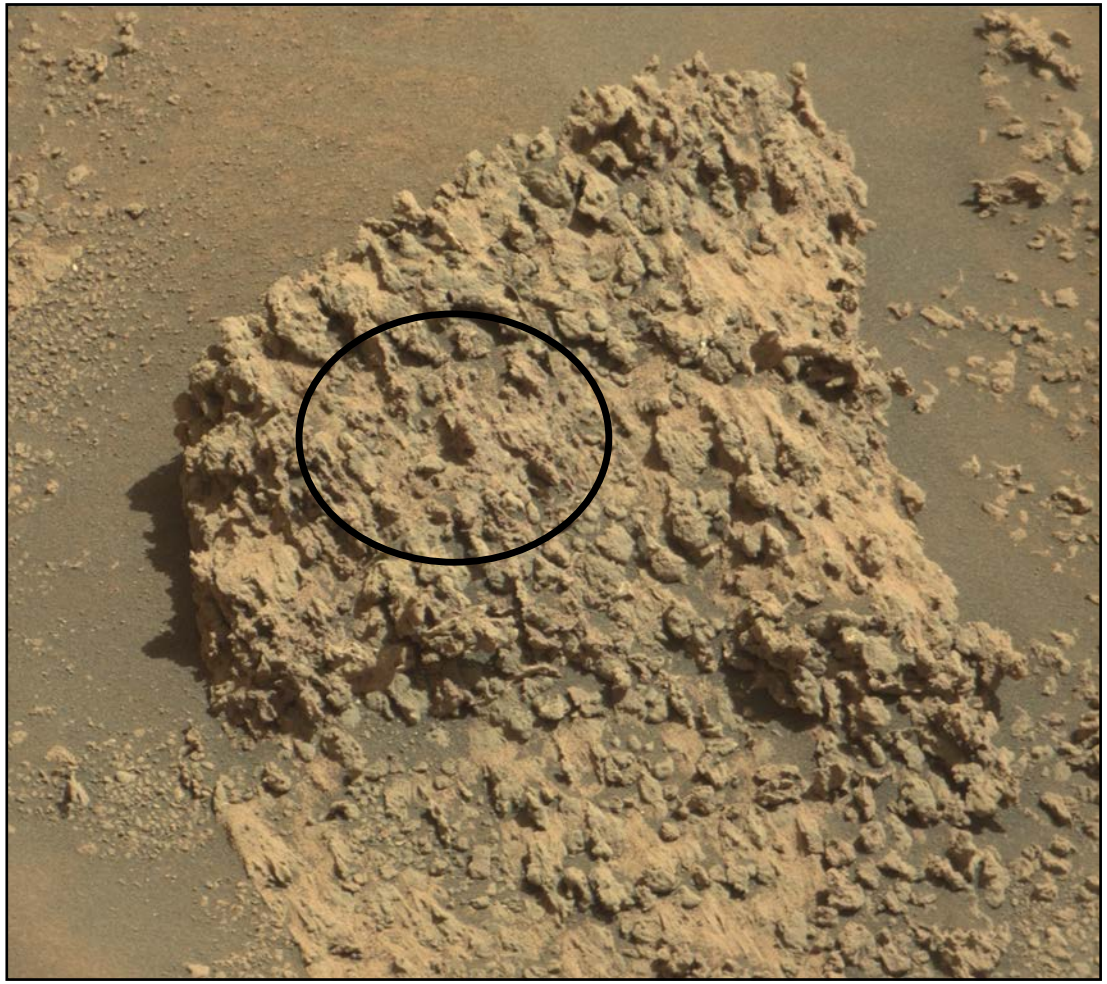
**Sol:** 3201
**Elev (m.):** -4035.792386

**CCAM Sequence ID:** CCAM01201

**Whole Target Classification:** Bedrock
**Lamination Strength:** Absent
**Lamination Expression:** Absent
**Grain Visibility:** Below RMI Image Resolution
**Bedrock Appearance:** Dull
**Nodule Presence:** Pervasive (>50% by Visual Inspection)
**Nodule Diameter:** Large (>3 mm)
**Nodule Resistance:** Protruding
**Fracture Presence:** Absent

| # | Feature | SiO2 (wt%) | TiO2 (wt%) | Al2O3 (wt%) | FeOT (wt%) | MgO (wt%) | CaO (wt%) | Na2O (wt%) | K2O (wt%) | Sum of Oxides (wt%) |
|---|---|---|---|---|---|---|---|---|---|---|
| 1 | Nodule | 44.3 | 0.7 | 9.9 | 28 | 3.6 | 0.8 | 9.91 | 0.35 | 97.54 |
| 2 | Nodule | 41.3 | 0.78 | 8.1 | 19 | 19.5 | 1.6 | 1.89 | 0.58 | 92.62 |
| 3 | Nodule | 40.6 | 0.82 | 8.1 | 23 | 12.1 | 1.4 | 1.93 | 0.53 | 88.51 |
| 4 | Nodule | 39.3 | 0.73 | 6.8 | 17.4 | 11.9 | 10.1 | 1.3 | 0.35 | 87.85 |
| 5 | Nodule | 42 | 0.85 | 8.2 | 22.1 | 10.7 | 1.5 | 1.86 | 0.53 | 87.72 |



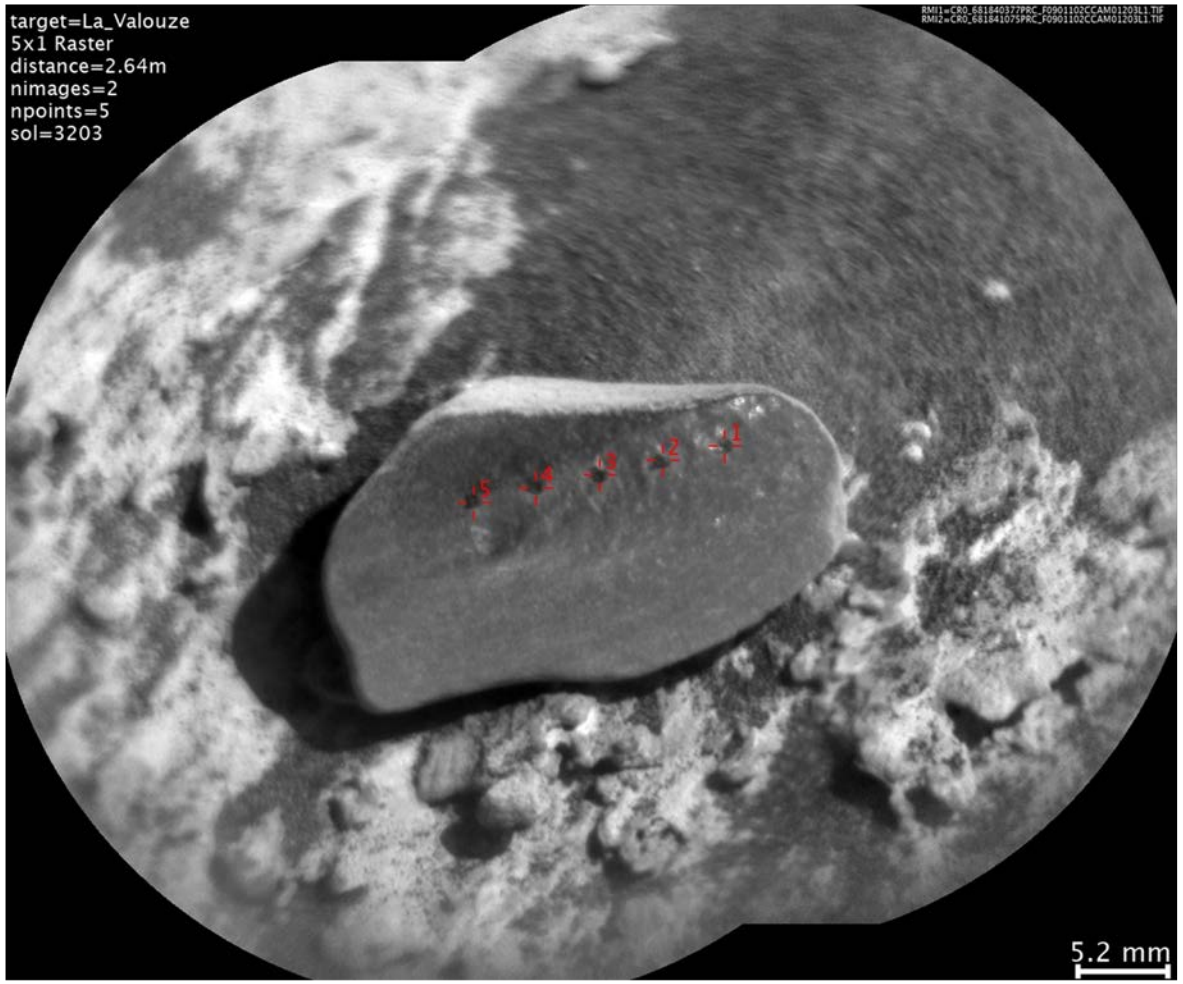
# Target: La_Valouze

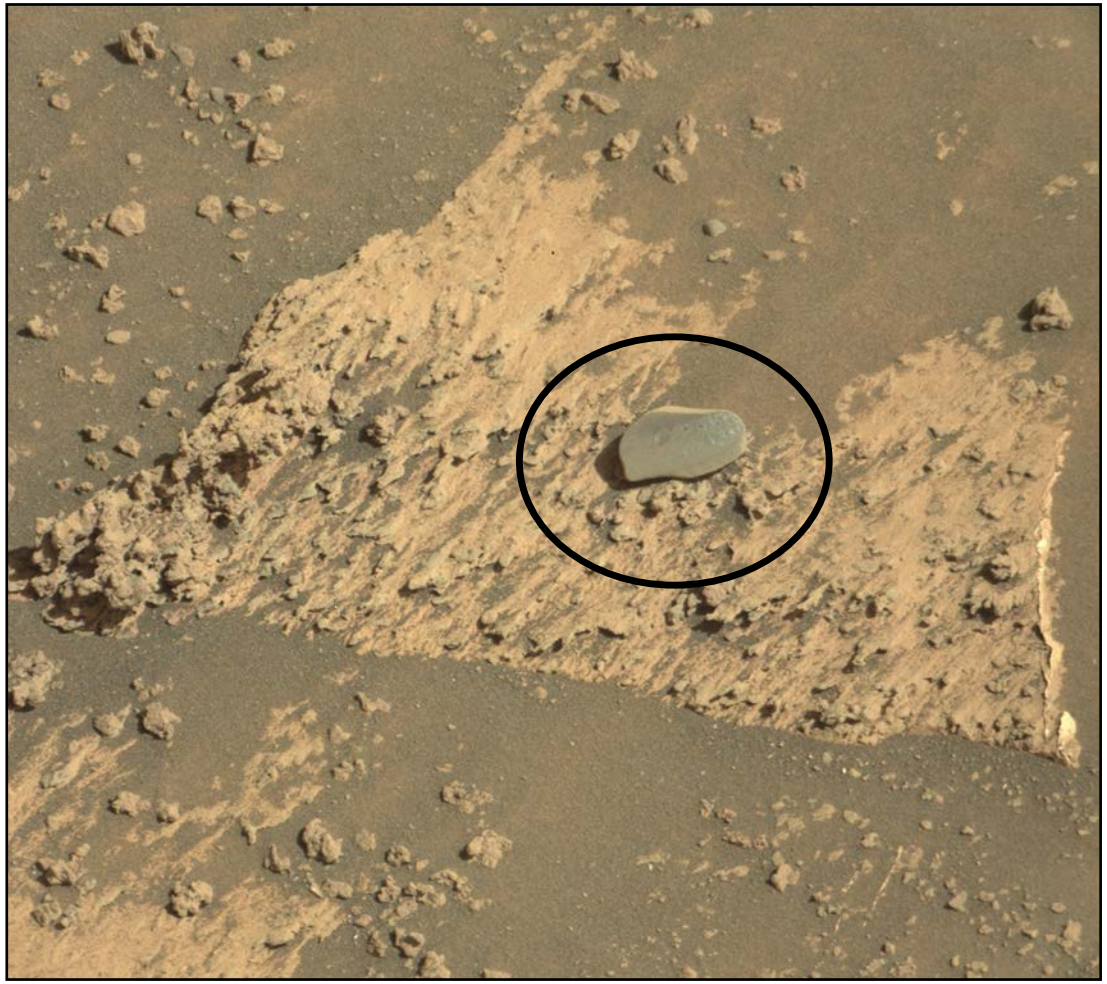
**Sol:** 3203
**Elev (m.):** -4035.792386

**CCAM Sequence ID:** CCAM01203

**Whole Target Classification:** Float
**Lamination Strength:** Weakly Laminated
**Lamination Expression:** Laminae-Parallel Nodules
**Grain Visibility:** Below RMI Image Resolution
**Bedrock Appearance:** Dull
**Nodule Presence:** Absent
**Nodule Diameter:** Absent
**Nodule Resistance:** Absent
**Fracture Presence:** Absent

| # | Feature | SiO2 (wt%) | TiO2 (wt%) | Al2O3 (wt%) | FeOT (wt%) | MgO (wt%) | CaO (wt%) | Na2O (wt%) | K2O (wt%) | Sum of Oxides (wt%) |
|---|---|---|---|---|---|---|---|---|---|---|
| 1 | Bedrock | 42.9 | 1.81 | 9.2 | 20.3 | 9.2 | 4.6 | 2.2 | 0.79 | 90.97 |
| 2 | Bedrock | 44.4 | 1.76 | 9.7 | 19.7 | 7.9 | 5.4 | 2.63 | 0.92 | 92.48 |
| 3 | Bedrock | 43.5 | 1.81 | 8.6 | 20.2 | 9.7 | 3.5 | 2.23 | 0.81 | 90.3 |
| 4 | Bedrock | 44.5 | 1.48 | 8.9 | 19.4 | 8.3 | 6.3 | 2.52 | 1 | 92.31 |
| 5 | Bedrock | 44.4 | 1.63 | 9.1 | 20.2 | 8.4 | 5.8 | 2.4 | 0.87 | 92.79 |



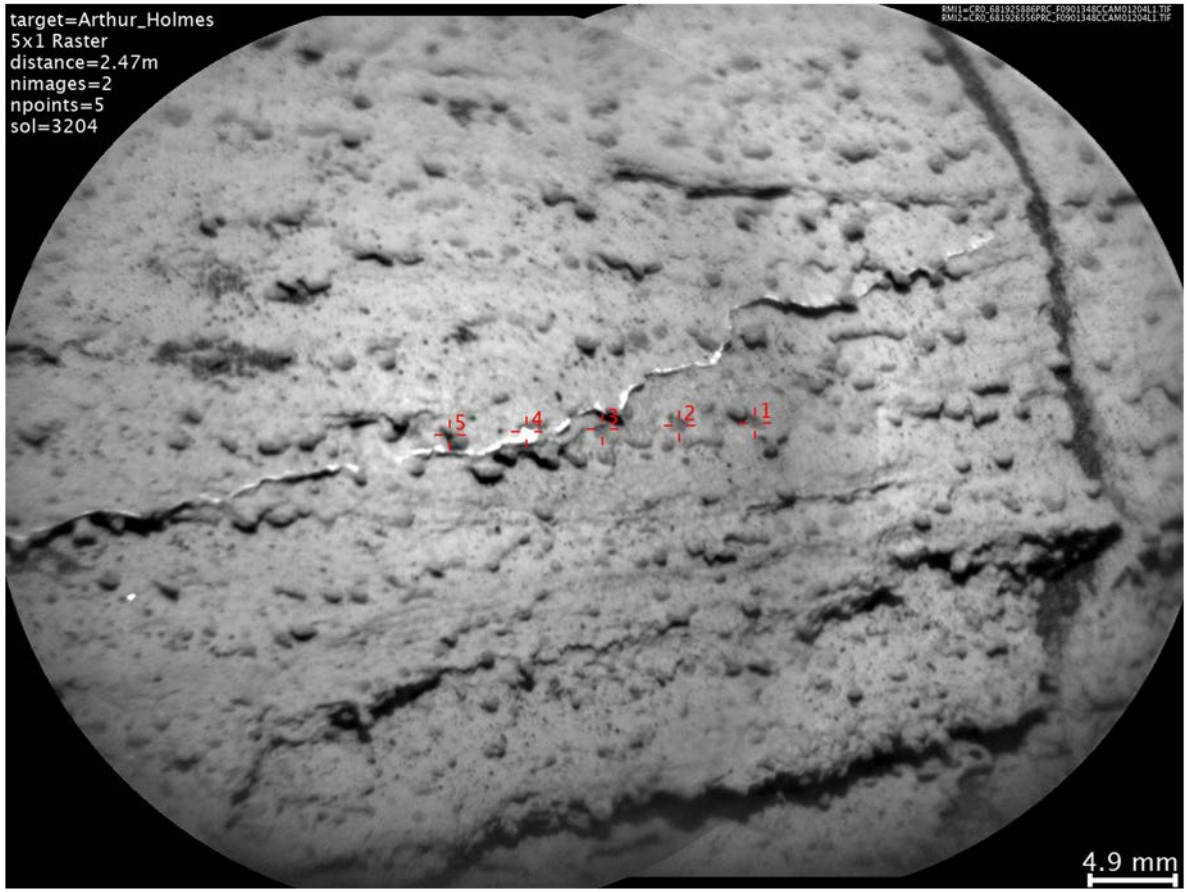



# Target: Arthur_Holmes

**Sol:** 3204
**Elev (m.):** -4032.1149403328
**CCAM Sequence ID:** CCAM01204

**Whole Target Classification:** Bedrock
**Lamination Strength:** Moderately Laminated
**Lamination Expression:** Laminae-Parallel Nodules
**Grain Visibility:** Below RMI Image Resolution
**Bedrock Appearance:** Dull
**Nodule Presence:** Common (~30% by Visual Inspection
**Nodule Diameter:** Small (<1 mm)
**Nodule Resistance:** Protruding
**Fracture Presence:** Occasional (<10% by Visual Inspection)

| # | Feature | SiO2 (wt%) | TiO2 (wt%) | Al2O3 (wt%) | FeOT (wt%) | MgO (wt%) | CaO (wt%) | Na2O (wt%) | K2O (wt%) | Sum of Oxides (wt%) |
|---|---|---|---|---|---|---|---|---|---|---|
| 1 | Nodule | 48.8 | 0.8 | 8.9 | 17 | 13.3 | 2 | 2.13 | 0.87 | 93.75 |
| 2 | Nodule | 45.4 | 0.85 | 9.2 | 16.5 | 17.2 | 1.9 | 1.94 | 0.57 | 93.62 |
| 3 | Nodule | 36.6 | 0.7 | 6.7 | 14.5 | 4.2 | 16.8 | 1.06 | 0.26 | 80.74 |
| 4 | Vein or Fracture | 20.6 | 0.53 | 4.7 | 8.4 | 1.8 | 28.8 | 0.69 | 0.19 | 65.66 |
| 5 | Nodule | 43.7 | 0.83 | 8.3 | 24.7 | 3.8 | 3.8 | 2.17 | 0.83 | 88.1 |

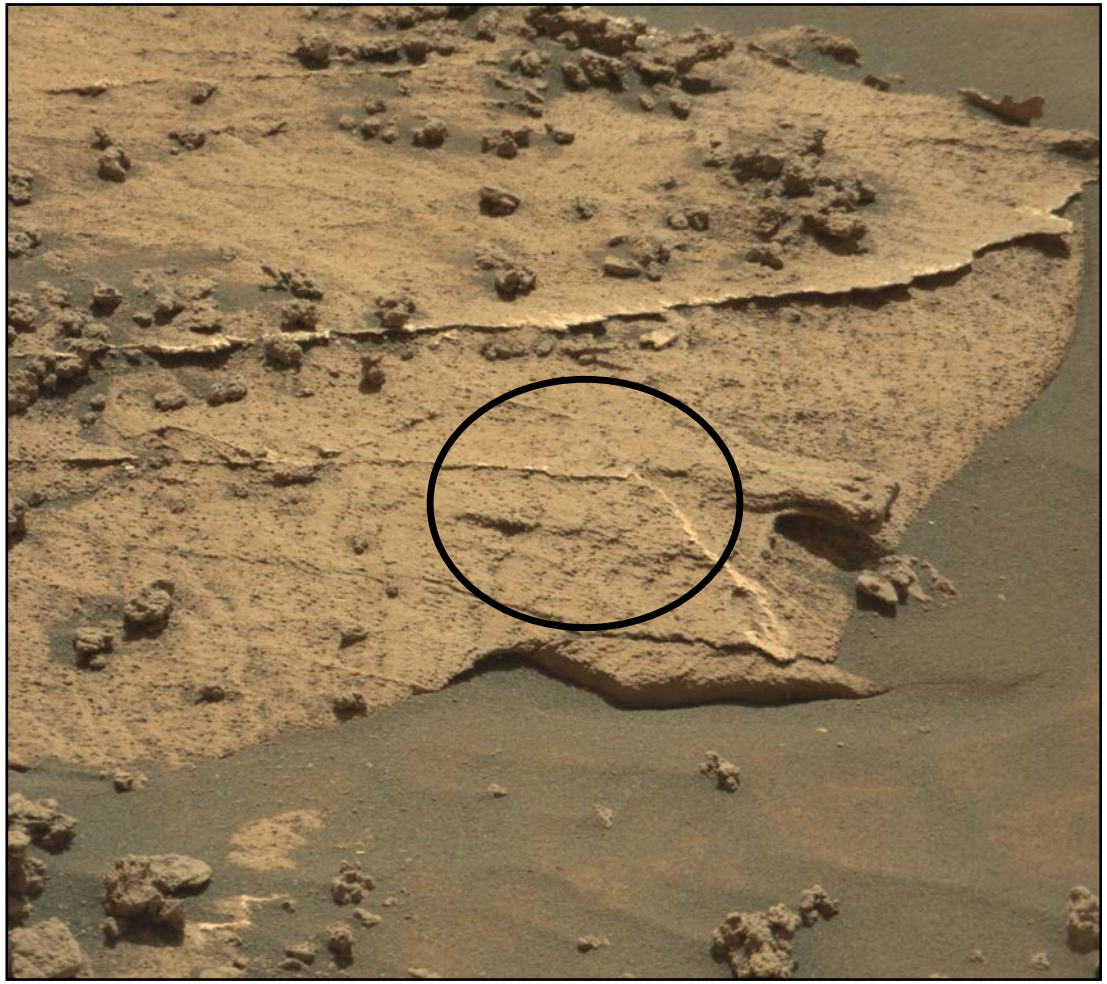


# Target: Dreich

**Sol:** 3205
**Elev (m.):** -4031.03624520069
**CCAM Sequence ID:** CCAM01205

**Whole Target Classification:** Bedrock
**Lamination Strength:** Weakly Laminated
**Lamination Expression:** Laminae-Parallel Nodules
**Grain Visibility:** Below RMI Image Resolution
**Bedrock Appearance:** Dull
**Nodule Presence:** Common (~30% by Visual Inspection
**Nodule Diameter:** Small (<1 mm)
**Nodule Resistance:** Protruding
**Fracture Presence:** Occasional (<10% by Visual Inspection)

| # | Feature | SiO2 (wt%) | TiO2 (wt%) | Al2O3 (wt%) | FeOT (wt%) | MgO (wt%) | CaO (wt%) | Na2O (wt%) | K2O (wt%) | Sum of Oxides (wt%) |
|---|---|---|---|---|---|---|---|---|---|---|
| 1 | Bedrock | 54.3 | 0.97 | 12.6 | 20.5 | 5.2 | 2.7 | 2.73 | 1.04 | 100.08 |
| 2 | Bedrock | 54.2 | 1.14 | 13.4 | 20.7 | 4.7 | 2.6 | 2.91 | 1.16 | 100.82 |
| 3 | Bedrock | 54.7 | 1.06 | 11.8 | 19.8 | 4.6 | 3.3 | 2.56 | 1.14 | 98.91 |
| 4 | Bedrock | 41 | 0.71 | 8.4 | 14.2 | 4 | 20.2 | 1.27 | 0.37 | 90.15 |
| 5 | Vein or Fracture | 41.8 | 0.74 | 8.1 | 15.1 | 4.6 | 16 | 1.36 | 0.41 | 88.12 |

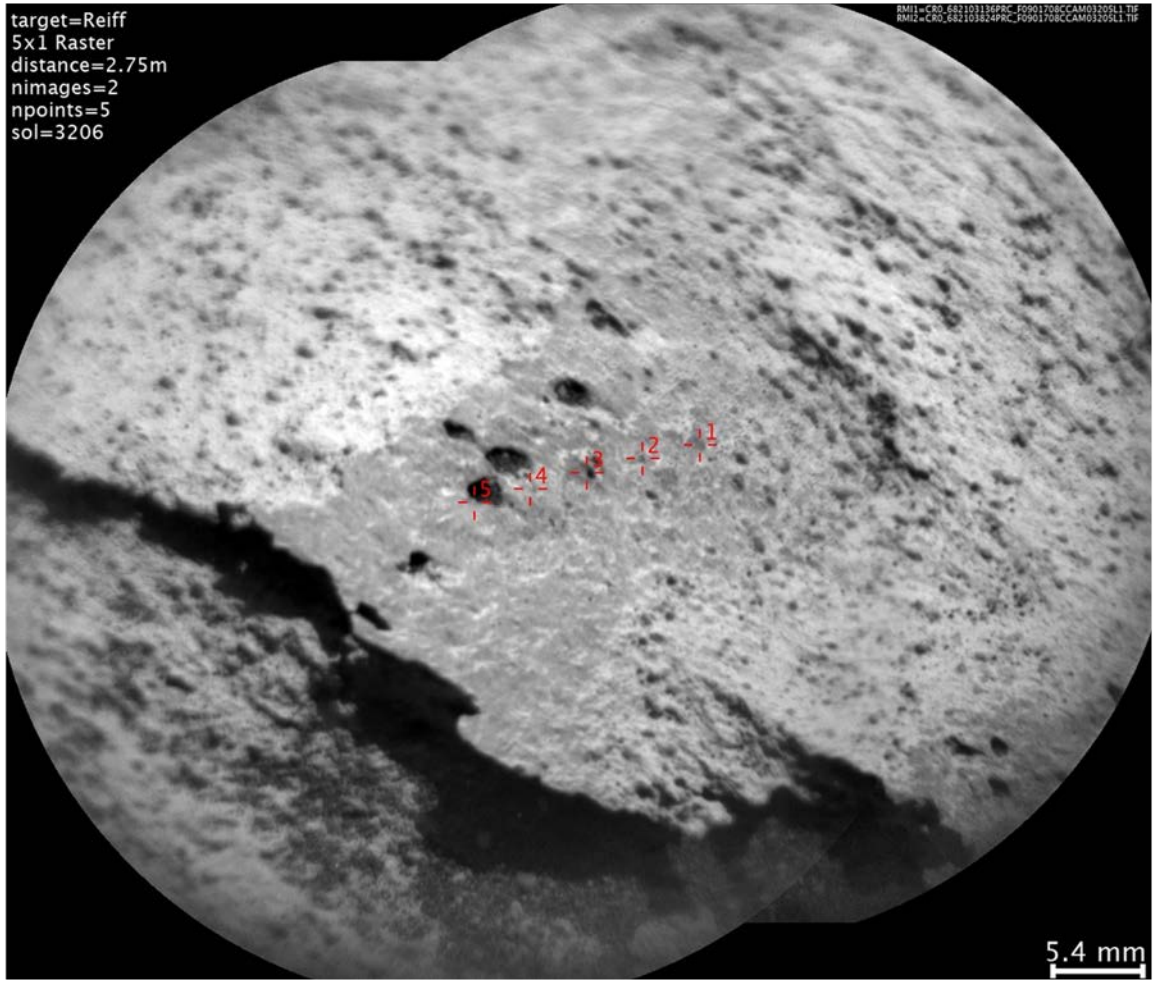


# Target: Reiff

**Sol:** 3205
**Elev (m.):** -4030.76025900501
**CCAM Sequence ID:** CCAM03205

**Whole Target Classification:** Bedrock
**Lamination Strength:** Weakly Laminated
**Lamination Expression:** Laminae-Parallel Nodules
**Grain Visibility:** Below RMI Image Resolution
**Bedrock Appearance:** Dull
**Nodule Presence:** Common (~30% by Visual Inspection
**Nodule Diameter:** Small (<1 mm)
**Nodule Resistance:** Protruding
**Fracture Presence:** Common (~10-20% by Visual Inspection)

| # | Feature | SiO2 (wt%) | TiO2 (wt%) | Al2O3 (wt%) | FeOT (wt%) | MgO (wt%) | CaO (wt%) | Na2O (wt%) | K2O (wt%) | Sum of Oxides (wt%) |
|---|---|---|---|---|---|---|---|---|---|---|
| 1 | Vein or Fracture | 50.3 | 0.73 | 10.6 | 6.5 | 2.7 | 0.1 | 16.83 | 0.31 | 88.24 |
| 2 | Vein or Fracture | 35 | 0.66 | 7.5 | 31.6 | 2.3 | 5.8 | 10.01 | 0.29 | 93.24 |
| 3 | Vein or Fracture | 44.3 | 0.69 | 8.1 | 21.8 | 3.1 | 4.4 | 7.63 | 0.4 | 90.45 |
| 4 | Vein or Fracture | 47.5 | 0.68 | 9.6 | 2.9 | 2.3 | 0 | 18.73 | 0.27 | 81.89 |
| 5 | Vein or Fracture | 48.6 | 0.75 | 9.4 | 6.3 | 2.8 | 0.7 | 16.95 | 0.31 | 85.85 |



# Target: White_Caterthuns

**Sol:** 3207
**Elev (m.):** -4031.51541639572
**CCAM Sequence ID:** CCAM03207

**Whole Target Classification:** Bedrock
**Lamination Strength:** Weakly Laminated
**Lamination Expression:** Laminae-Parallel Nodules
**Grain Visibility:** Below RMI Image Resolution
**Bedrock Appearance:** Dull
**Nodule Presence:** Absent
**Nodule Diameter:** Large (>3 mm)
**Nodule Resistance:** Protruding
**Fracture Presence:** Common (~10-20% by Visual Inspection)

| # | Feature | SiO2 (wt%) | TiO2 (wt%) | Al2O3 (wt%) | FeOT (wt%) | MgO (wt%) | CaO (wt%) | Na2O (wt%) | K2O (wt%) | Sum of Oxides (wt%) |
|---|---|---|---|---|---|---|---|---|---|---|
| 1 | Vein or Fracture | 24.1 | 0.34 | 6.2 | 9 | 2.2 | 33.5 | 0.76 | 0.14 | 76.13 |
| 2 | Vein or Fracture | 1.8 | 0.19 | 1.8 | 2 | 3.8 | 51 | 0.5 | 0.01 | 61.11 |
| 3 | Vein or Fracture | 2 | 0 | 1.4 | 1.4 | 3.5 | 49.6 | 0.37 | 0.01 | 58.25 |
| 4 | Vein or Fracture | 20.2 | 0.25 | 5.7 | 2.5 | 2.8 | 44.6 | 0.91 | 0.11 | 77.13 |
| 5 | Vein or Fracture | 1.7 | 0 | 1.4 | 2.8 | 4 | 50.7 | 0.3 | 0 | 60.77 |

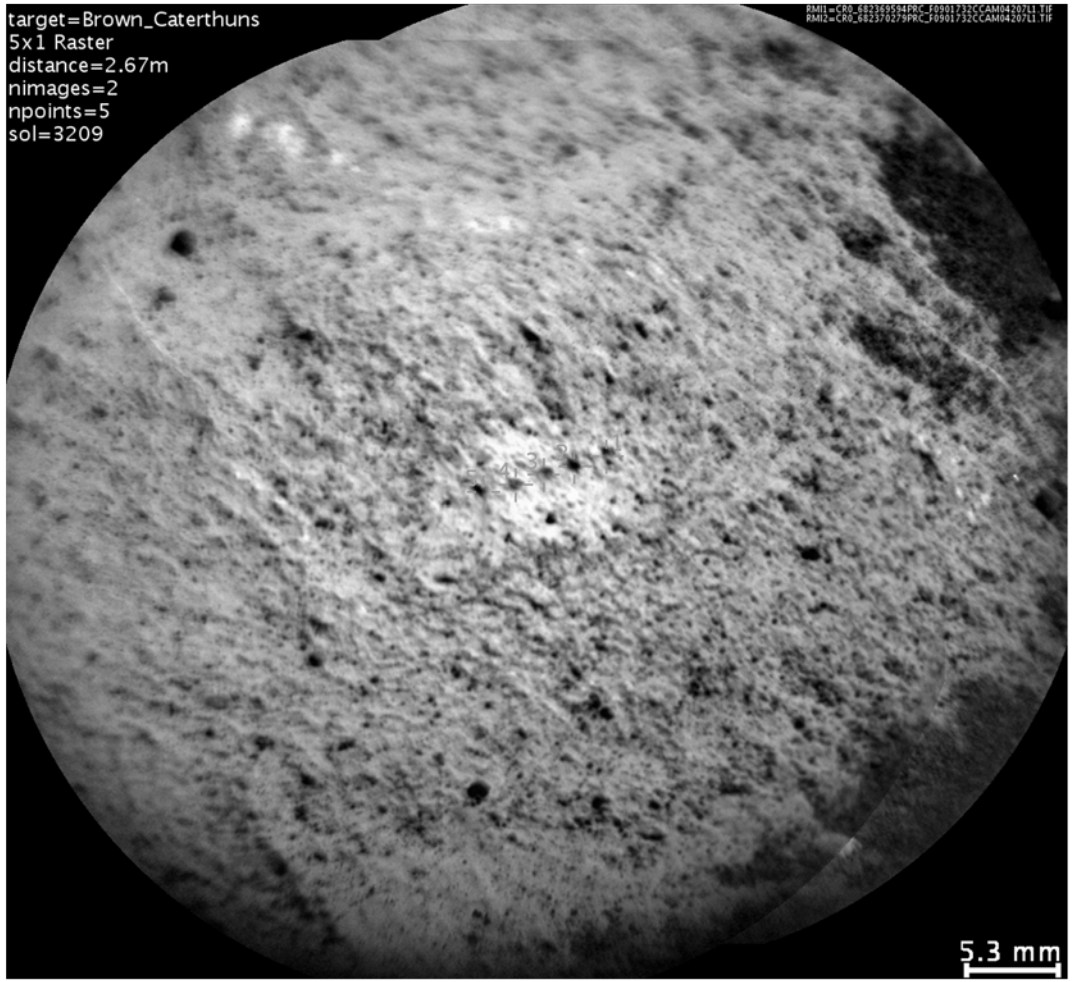
# Target: Brown_Caterthuns

**Sol:** 3209
**Elev (m.):** -4030.186202

**CCAM Sequence ID:** CCAM04207

**Whole Target Classification:** Bedrock
**Lamination Strength:** Weakly Laminated
**Lamination Expression:** Laminae-Parallel Nodules
**Grain Visibility:** Below RMI Image Resolution
**Bedrock Appearance:** Dull
**Nodule Presence:** Absent
**Nodule Diameter:** Large (>3 mm)
**Nodule Resistance:** Protruding
**Fracture Presence:** Occasional (<10% by Visual Inspection)

| # | Feature | SiO2 (wt%) | TiO2 (wt%) | Al2O3 (wt%) | FeOT (wt%) | MgO (wt%) | CaO (wt%) | Na2O (wt%) | K2O (wt%) | Sum of Oxides (wt%) |
|---|---|---|---|---|---|---|---|---|---|---|
| 1 | Bedrock | 40.4 | 0.75 | 7.2 | 17.9 | 4.9 | 12 | 2.02 | 0.29 | 85.39 |
| 2 | Bedrock | 43.3 | 0.84 | 9.1 | 29.5 | 3.1 | 1.6 | 2.16 | 0.67 | 90.32 |
| 3 | Bedrock | 40.7 | 0.78 | 6.9 | 16.1 | 21.6 | 1.5 | 1.43 | 0.29 | 89.39 |
| 4 | Bedrock | 45.6 | 0.83 | 8.8 | 22.3 | 5.4 | 1.7 | 2.2 | 0.75 | 87.58 |
| 5 | Bedrock | 43.5 | 0.88 | 10 | 20.9 | 5.1 | 7.4 | 1.98 | 0.55 | 90.29 |



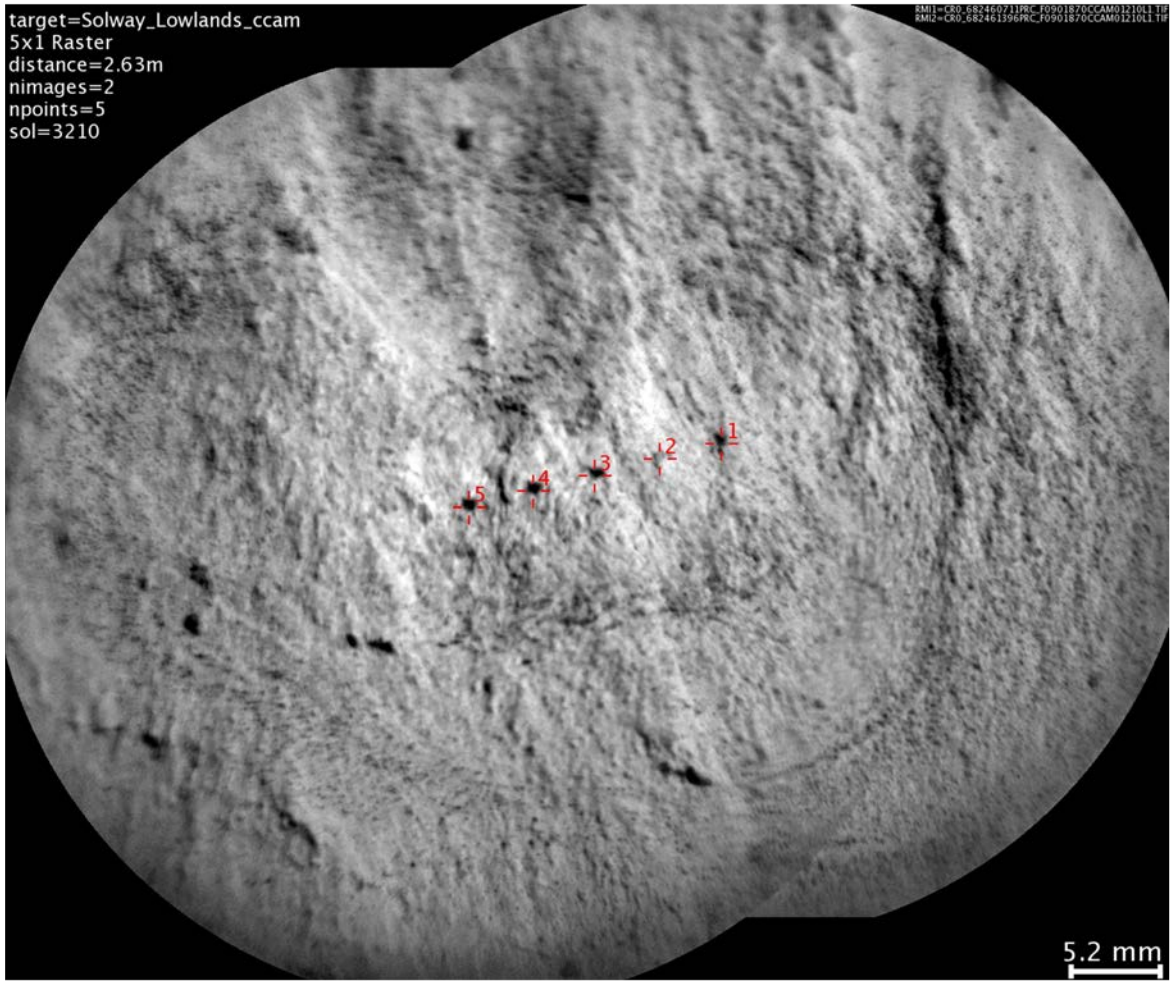
# Target: Solway_Lowlands_ccam

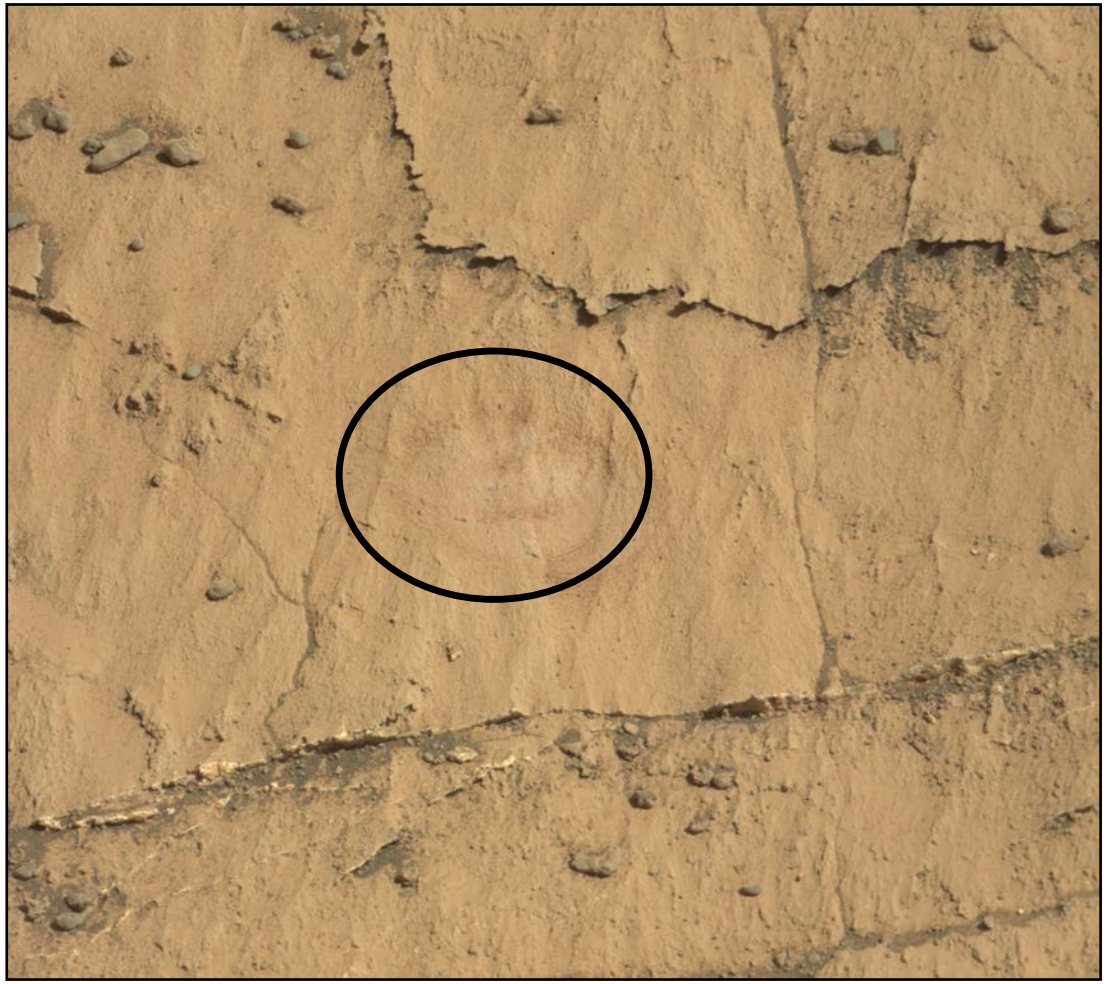
**Sol:** 3210
**Elev (m.):** -4030.858572

**CCAM Sequence ID:** CCAM01210

**Whole Target Classification:** Bedrock
**Lamination Strength:** Weakly Laminated
**Lamination Expression:** Laminae-Parallel Nodules
**Grain Visibility:** Below RMI Image Resolution
**Bedrock Appearance:** Dull
**Nodule Presence:** Absent
**Nodule Diameter:** Absent
**Nodule Resistance:** Absent
**Fracture Presence:** Occasional (<10% by Visual Inspection)

| # | Feature | SiO2 (wt%) | TiO2 (wt%) | Al2O3 (wt%) | FeOT (wt%) | MgO (wt%) | CaO (wt%) | Na2O (wt%) | K2O (wt%) | Sum of Oxides (wt%) |
|---|---|---|---|---|---|---|---|---|---|---|
| 1 | Bedrock | 50.1 | 1.15 | 11.1 | 20 | 4.6 | 2.7 | 2.44 | 0.79 | 92.86 |
| 2 | Bedrock | 38.2 | 0.68 | 6.9 | 12.7 | 2.8 | 20 | 1.06 | 0.36 | 82.61 |
| 3 | Bedrock | 49.5 | 0.97 | 11.3 | 19.6 | 4.6 | 2.2 | 2.45 | 0.82 | 91.32 |
| 4 | Bedrock | 50.4 | 0.97 | 13 | 20.2 | 4.3 | 2.8 | 2.83 | 1.05 | 95.58 |
| 5 | Bedrock | 49.6 | 1.06 | 11.5 | 20.1 | 4.9 | 2.7 | 2.46 | 0.83 | 93.15 |



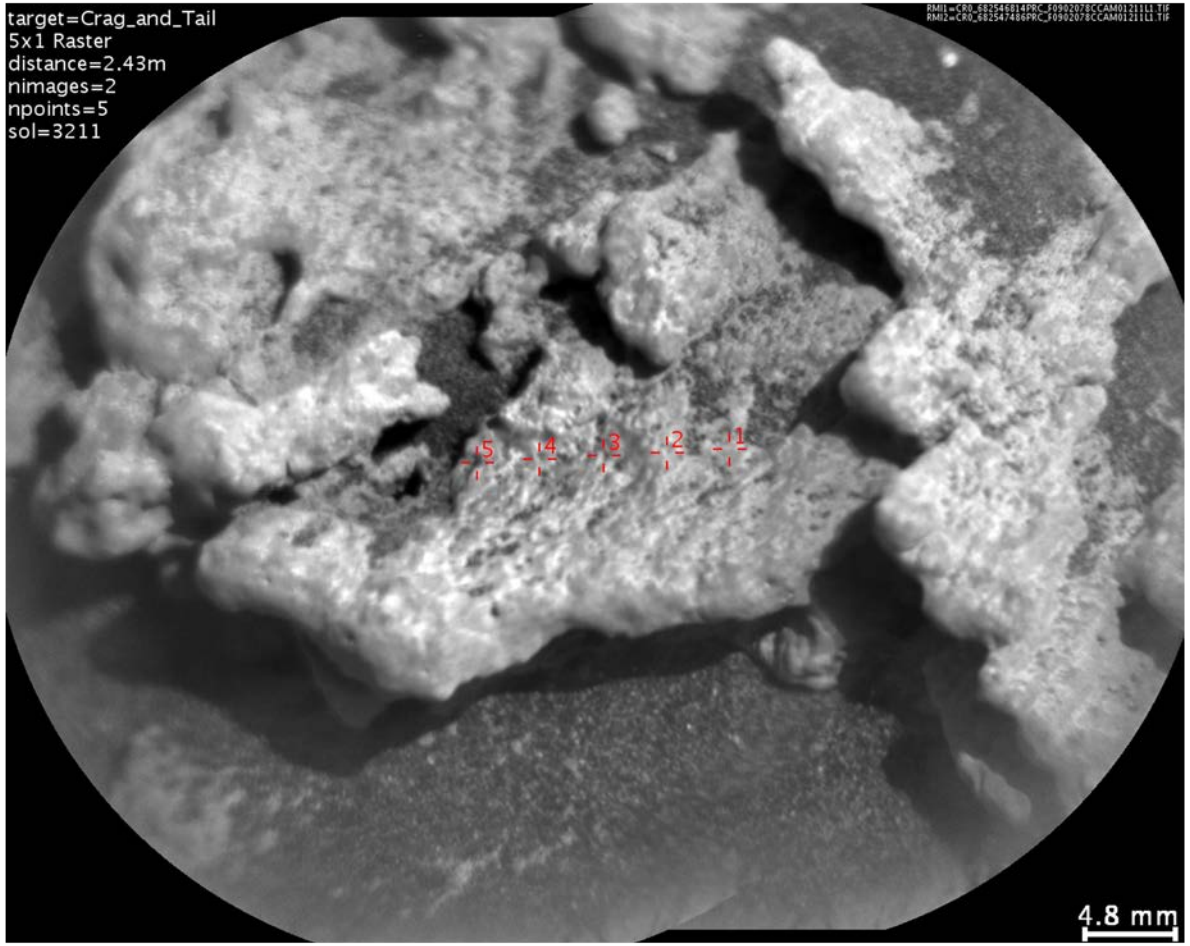
# Target: Crag_and_Tail

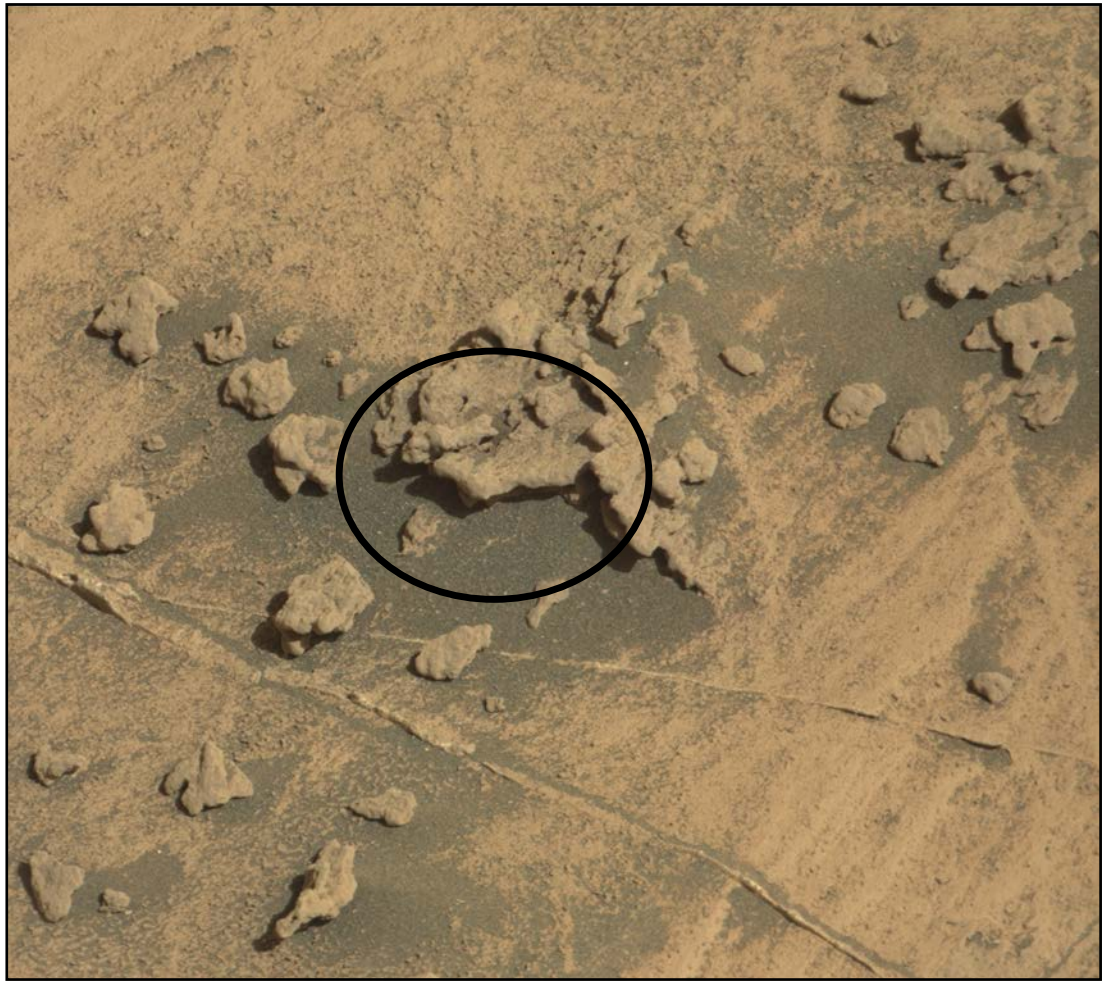
**Sol:** 3211
**Elev (m.):** -4028.146151

**CCAM Sequence ID:** CCAM01211

**Whole Target Classification:** Bedrock
**Lamination Strength:** Weakly Laminated
**Lamination Expression:** Laminae-Parallel Nodules
**Grain Visibility:** Below RMI Image Resolution
**Bedrock Appearance:** Dull
**Nodule Presence:** Pervasive (>50% by Visual Inspection)
**Nodule Diameter:** Large (>3 mm)
**Nodule Resistance:** Protruding
**Fracture Presence:** Absent

| # | Feature | SiO2 (wt%) | TiO2 (wt%) | Al2O3 (wt%) | FeOT (wt%) | MgO (wt%) | CaO (wt%) | Na2O (wt%) | K2O (wt%) | Sum of Oxides (wt%) |
|---|---|---|---|---|---|---|---|---|---|---|
| 1 | Nodule | 38.9 | 0.77 | 6.8 | 17.8 | 16.5 | 6.4 | 1.32 | 0.27 | 88.65 |
| 2 | Nodule | 38 | 0.71 | 6.9 | 15.7 | 9.8 | 13.3 | 1.09 | 0.27 | 85.76 |
| 3 | Nodule | 38.5 | 0.79 | 7.2 | 17.7 | 20.6 | 1.6 | 1.51 | 0.3 | 88.22 |
| 4 | Nodule | 38.7 | 0.73 | 6.9 | 20.2 | 16.5 | 1.3 | 2.59 | 0.36 | 87.29 |
| 5 | Nodule | 37.4 | 0.81 | 6.7 | 28.8 | 7.5 | 1.3 | 1.78 | 0.34 | 84.59 |



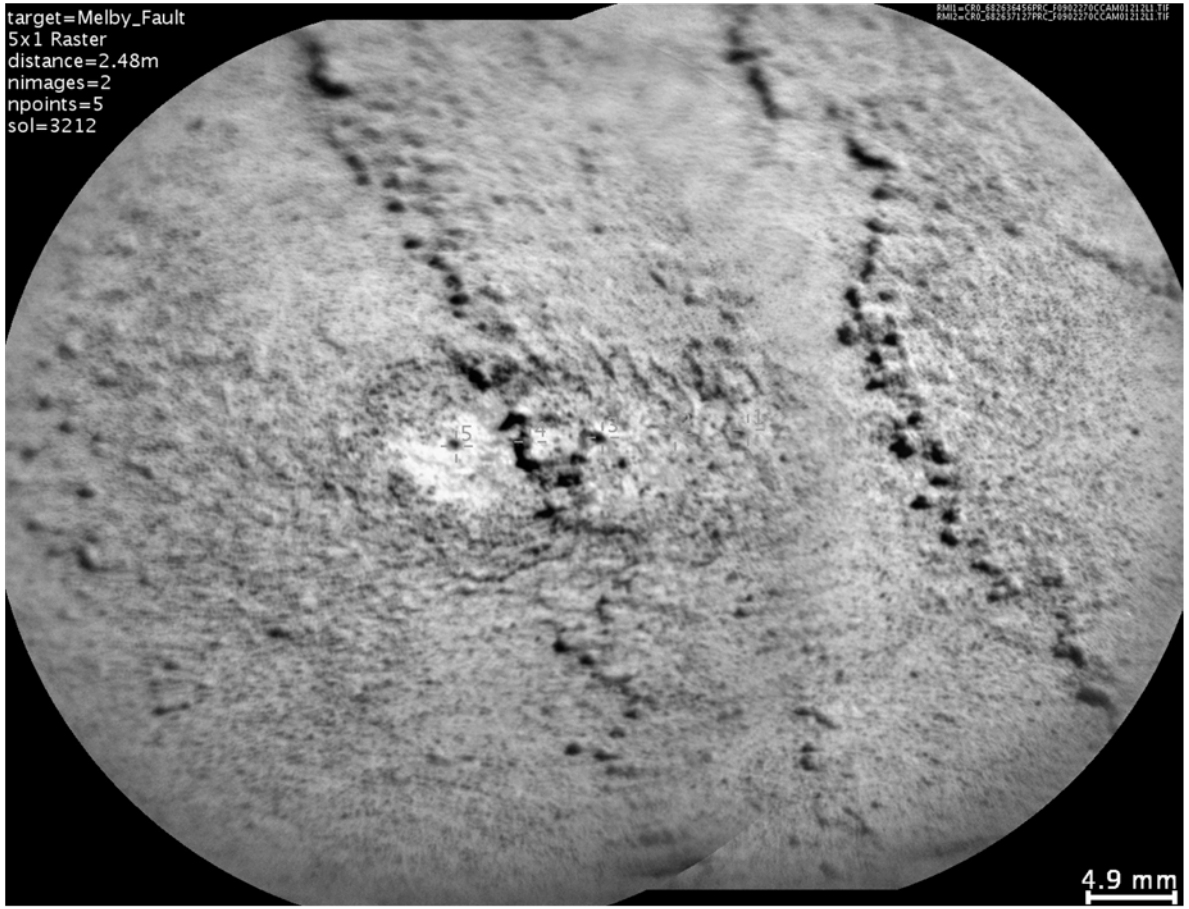
# Target: Melby_Fault

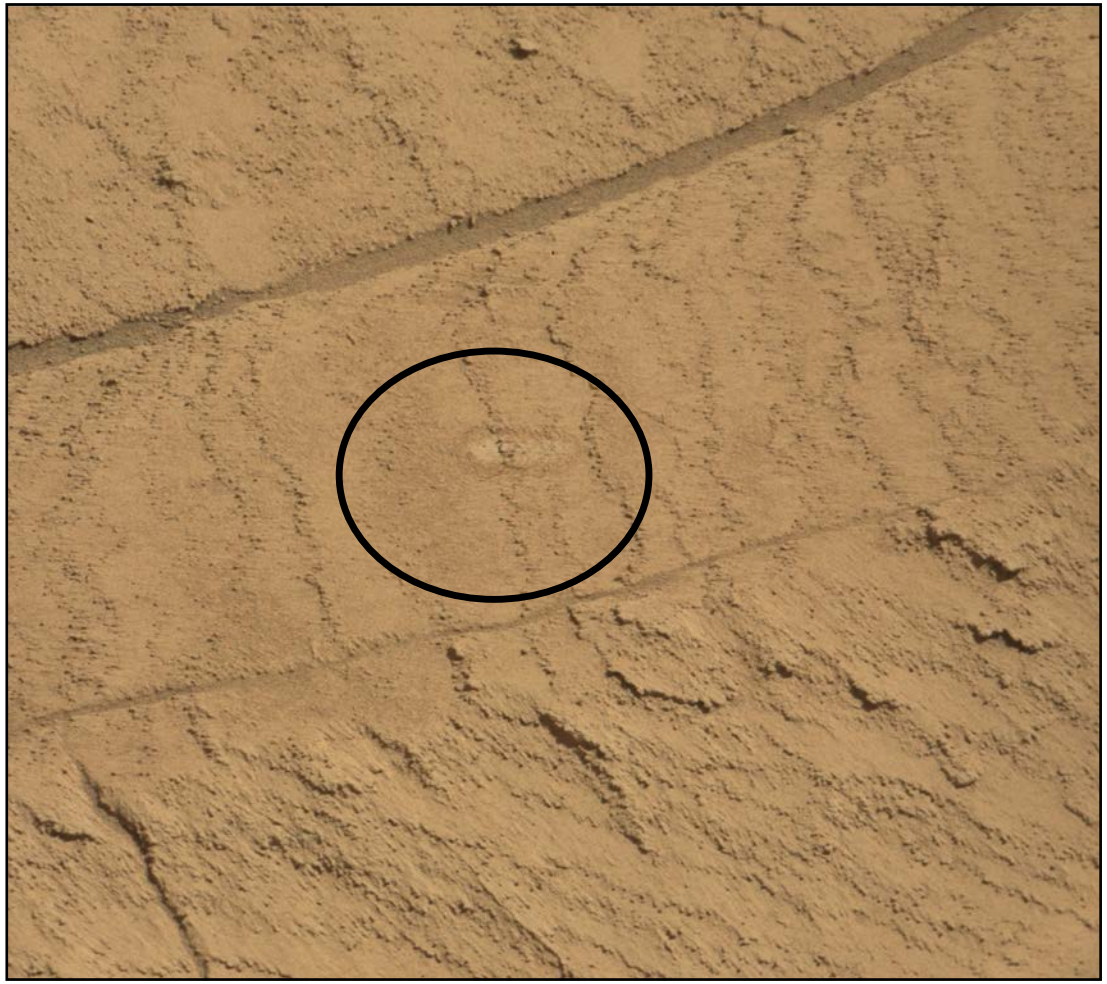
**Sol:** 3212
**Elev (m.):** -4026.530446

**CCAM Sequence ID:** CCAM01212

**Whole Target Classification:** Bedrock
**Lamination Strength:** Moderately Laminated
**Lamination Expression:** Laminae-Parallel Nodules
**Grain Visibility:** Below RMI Image Resolution
**Bedrock Appearance:** Dull
**Nodule Presence:** Common (~30% by Visual Inspection
**Nodule Diameter:** Small (<1 mm)
**Nodule Resistance:** Protruding
**Fracture Presence:** Occasional (<10% by Visual Inspection)

| # | Feature | SiO2 (wt%) | TiO2 (wt%) | Al2O3 (wt%) | FeOT (wt%) | MgO (wt%) | CaO (wt%) | Na2O (wt%) | K2O (wt%) | Sum of Oxides (wt%) |
|---|---|---|---|---|---|---|---|---|---|---|
| 1 | Bedrock | 43.3 | 0.82 | 8.7 | 17.4 | 19 | 1.4 | 1.66 | 0.44 | 92.89 |
| 2 | Bedrock | 43.9 | 0.83 | 8.2 | 15.7 | 3.7 | 13.2 | 1.52 | 0.57 | 87.51 |
| 3 | Bedrock | 42.9 | 0.8 | 9 | 29.9 | 3.1 | 1.2 | 2.15 | 0.59 | 89.75 |
| 4 | Nodule | 39.4 | 0.74 | 9 | 13 | 2.9 | 5.1 | 11.56 | 0.22 | 81.93 |
| 5 | Bedrock | 53.5 | 1.02 | 11.3 | 20.6 | 5 | 1.8 | 2.32 | 0.88 | 96.45 |



# Target: aegis_post_3213a

**Sol:** 3213
**Elev (m.):** -4023.985018

**CCAM Sequence ID:** CCAM15905

**Whole Target Classification:** Bedrock
**Lamination Strength:** Absent
**Lamination Expression:** Absent
**Grain Visibility:** Below RMI Image Resolution
**Bedrock Appearance:** Dull
**Nodule Presence:** Pervasive (>50% by Visual Inspection)
**Nodule Diameter:** Small (<1 mm)
**Nodule Resistance:** Protruding
**Fracture Presence:** Absent

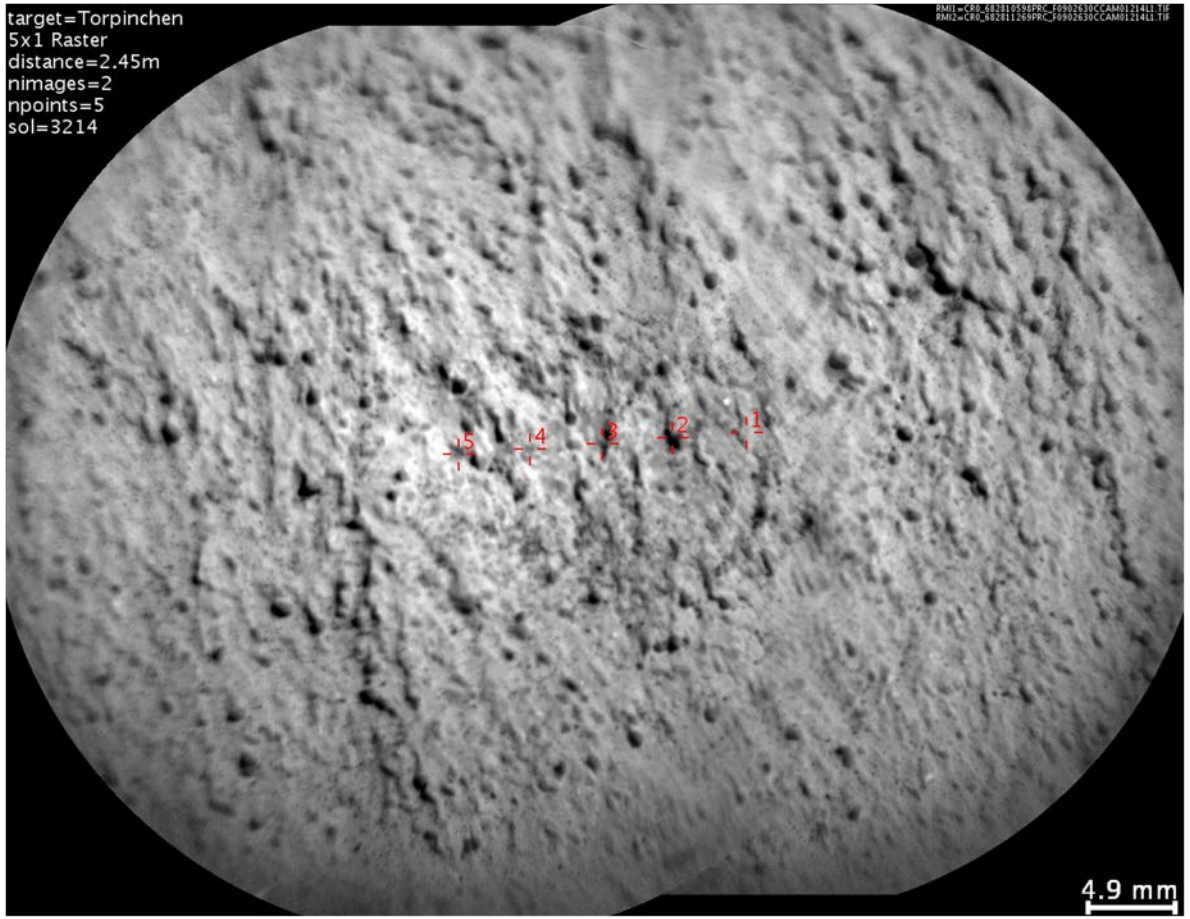
| # | Feature | SiO2 (wt%) | TiO2 (wt%) | Al2O3 (wt%) | FeOT (wt%) | MgO (wt%) | CaO (wt%) | Na2O (wt%) | K2O (wt%) | Sum of Oxides (wt%) |
|---|---|---|---|---|---|---|---|---|---|---|
| 1 | Nodule | 42.7 | 0.8 | 8.5 | 29.4 | 2.4 | 1.1 | 2.18 | 0.72 | 87.76 |
| 2 | Nodule | 44.8 | 0.73 | 7.7 | 15.9 | 7.2 | 8.7 | 3.27 | 0.3 | 88.58 |
| 3 | Nodule | 55.2 | 1.1 | 11.4 | 20.9 | 4.5 | 2.2 | 2.81 | 1.26 | 99.34 |
| 4 | Nodule | 55.6 | 1.01 | 11.6 | 19.5 | 5.3 | 2.3 | 2.86 | 1.4 | 99.65 |
| 5 | Nodule | 31.9 | 0.63 | 5.6 | 11 | 2.4 | 23.2 | 0.81 | 0.29 | 75.85 |

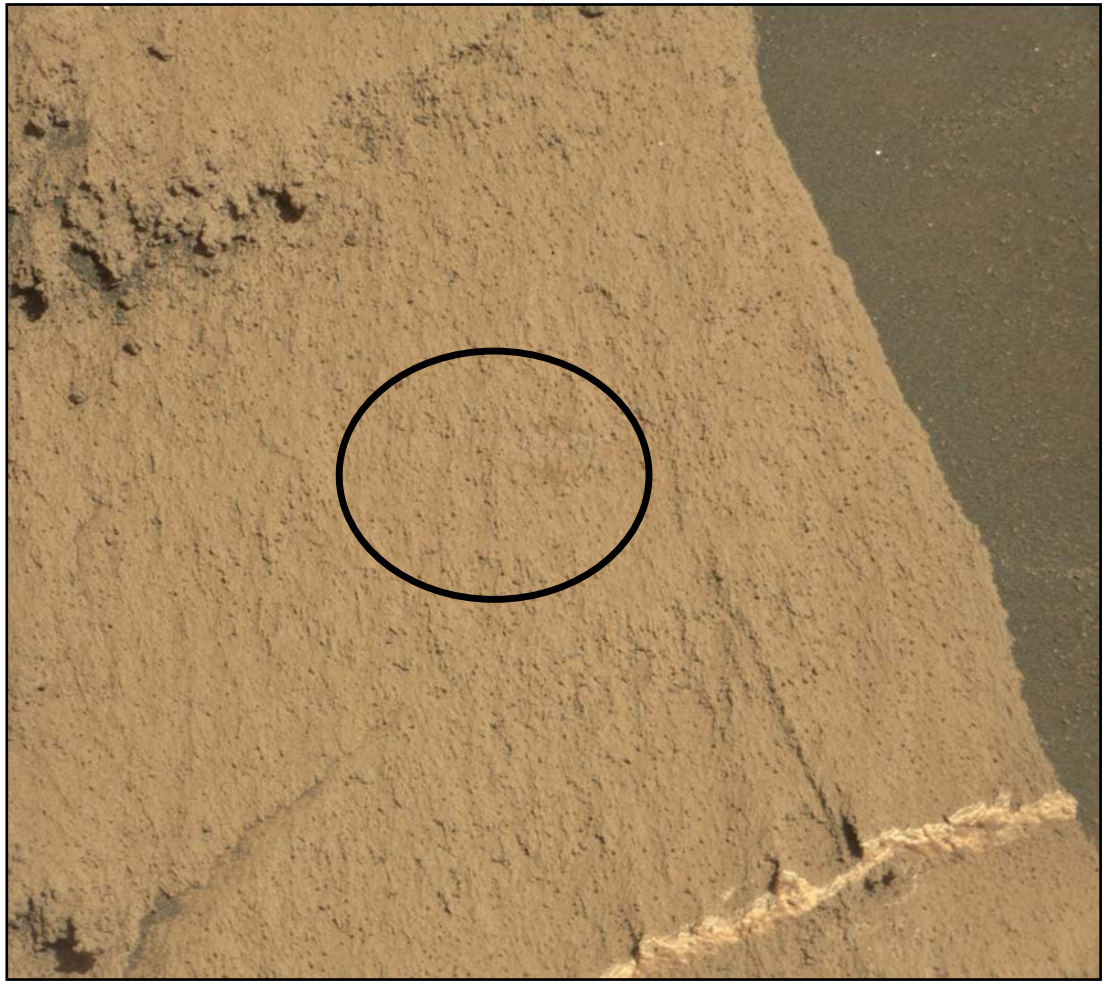
# Target: Torpinchen

**Sol:** 3214
**Elev (m.):** -4023.85707328817
**CCAM Sequence ID:** CCAM01214

**Whole Target Classification:** Bedrock
**Lamination Strength:** Weakly Laminated
**Lamination Expression:** Laminae-Parallel Nodules
**Grain Visibility:** Below RMI Image Resolution
**Bedrock Appearance:** Dull
**Nodule Presence:** Pervasive (>50% by Visual Inspection)
**Nodule Diameter:** Small (<1 mm)
**Nodule Resistance:** Protruding
**Fracture Presence:** Occasional (<10% by Visual Inspection)

| # | Feature | SiO2 (wt%) | TiO2 (wt%) | Al2O3 (wt%) | FeOT (wt%) | MgO (wt%) | CaO (wt%) | Na2O (wt%) | K2O (wt%) | Sum of Oxides (wt%) |
|---|---|---|---|---|---|---|---|---|---|---|
| 1 | Nodule | 30.9 | 0.64 | 5.2 | 11.3 | 2.3 | 22.7 | 0.72 | 0.23 | 73.93 |
| 2 | Nodule | 52 | 0.73 | 10 | 11.2 | 3.2 | 0.3 | 13.81 | 0.3 | 91.37 |
| 3 | Nodule | 40 | 0.73 | 7.1 | 15.6 | 7.1 | 13.2 | 1.25 | 0.39 | 85.28 |
| 4 | Nodule | 41.7 | 0.75 | 7.3 | 16.1 | 9.8 | 9.2 | 1.29 | 0.35 | 86.56 |
| 5 | Nodule | 41.2 | 0.76 | 6.7 | 17.1 | 20.9 | 1.2 | 1.26 | 0.2 | 89.34 |



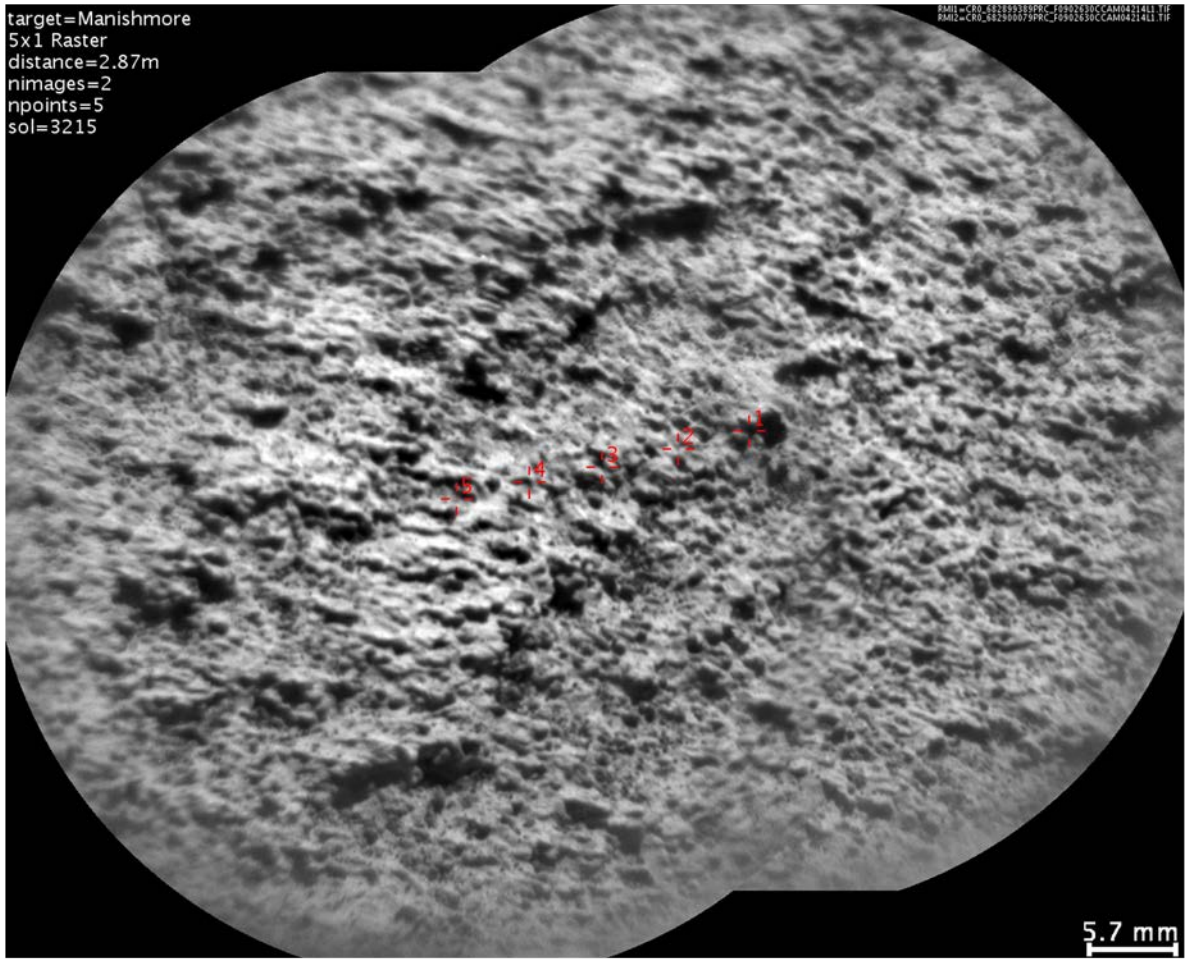



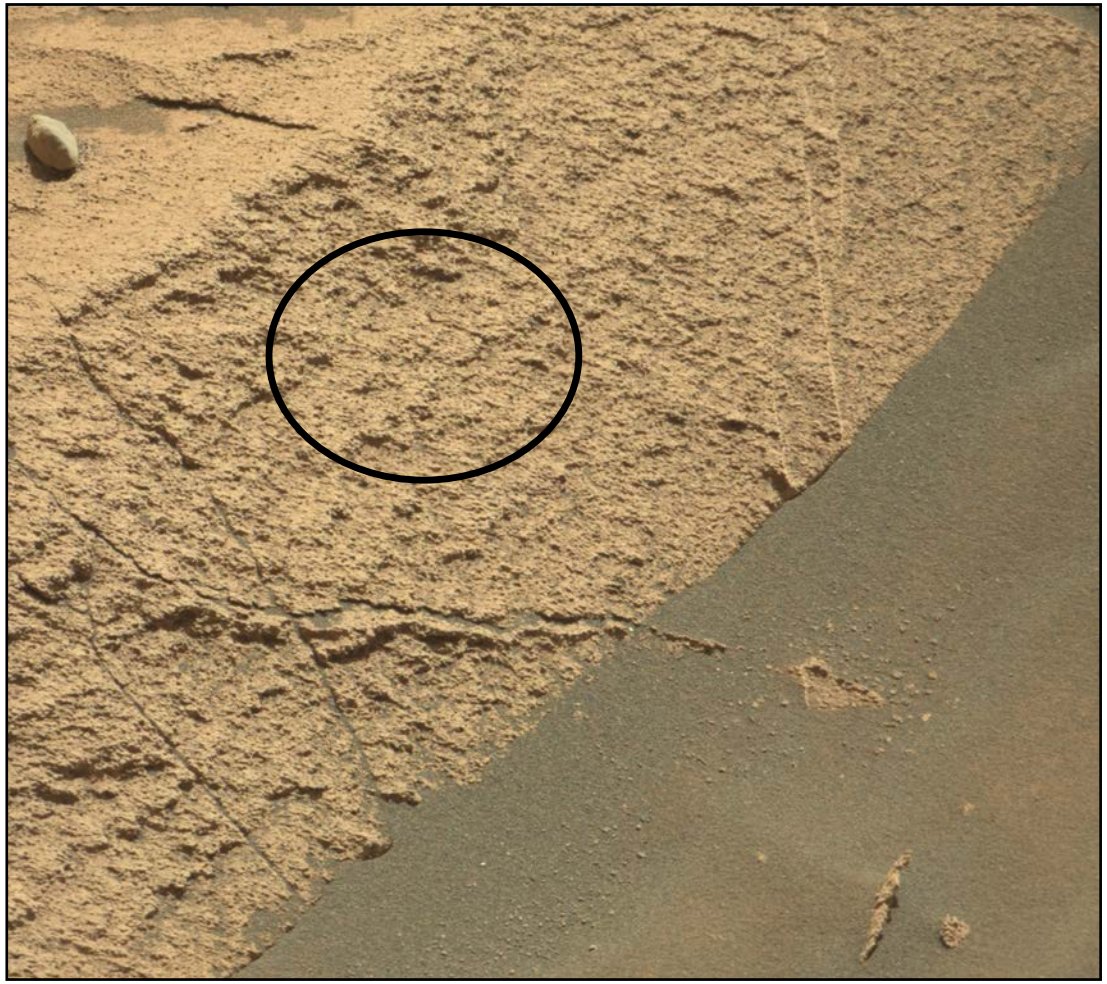
# Target: Manishmore

**Sol:** 3215
**Elev (m.):** -4023.84229952466
**CCAM Sequence ID:** CCAM04214

**Whole Target Classification:** Bedrock
**Lamination Strength:** Moderately Laminated
**Lamination Expression:** Laminae-Parallel Nodules
**Grain Visibility:** Below RMI Image Resolution
**Bedrock Appearance:** Dull
**Nodule Presence:** Pervasive (>50% by Visual Inspection)
**Nodule Diameter:** Small (<1 mm)
**Nodule Resistance:** Protruding
**Fracture Presence:** Occasional (<10% by Visual Inspection)

| # | Feature | SiO2 (wt%) | TiO2 (wt%) | Al2O3 (wt%) | FeOT (wt%) | MgO (wt%) | CaO (wt%) | Na2O (wt%) | K2O (wt%) | Sum of Oxides (wt%) |
|---|---|---|---|---|---|---|---|---|---|---|
| 1 | Nodule | 52 | 0.98 | 10.7 | 20.6 | 4.6 | 3.9 | 2.27 | 0.91 | 95.99 |
| 2 | Nodule | 55.5 | 1.31 | 12.5 | 18 | 6 | 2.4 | 2.53 | 0.86 | 99.21 |
| 3 | Nodule | 50 | 1.06 | 11.6 | 20.7 | 4.2 | 3.7 | 2.49 | 0.81 | 94.49 |
| 4 | Nodule | 49.8 | 0.86 | 10.7 | 18.6 | 4.2 | 8.4 | 2.03 | 0.85 | 95.42 |
| 5 | Nodule | 55.2 | 0.74 | 10.7 | 12.5 | 3.6 | 0.7 | 12.92 | 0.39 | 96.73 |

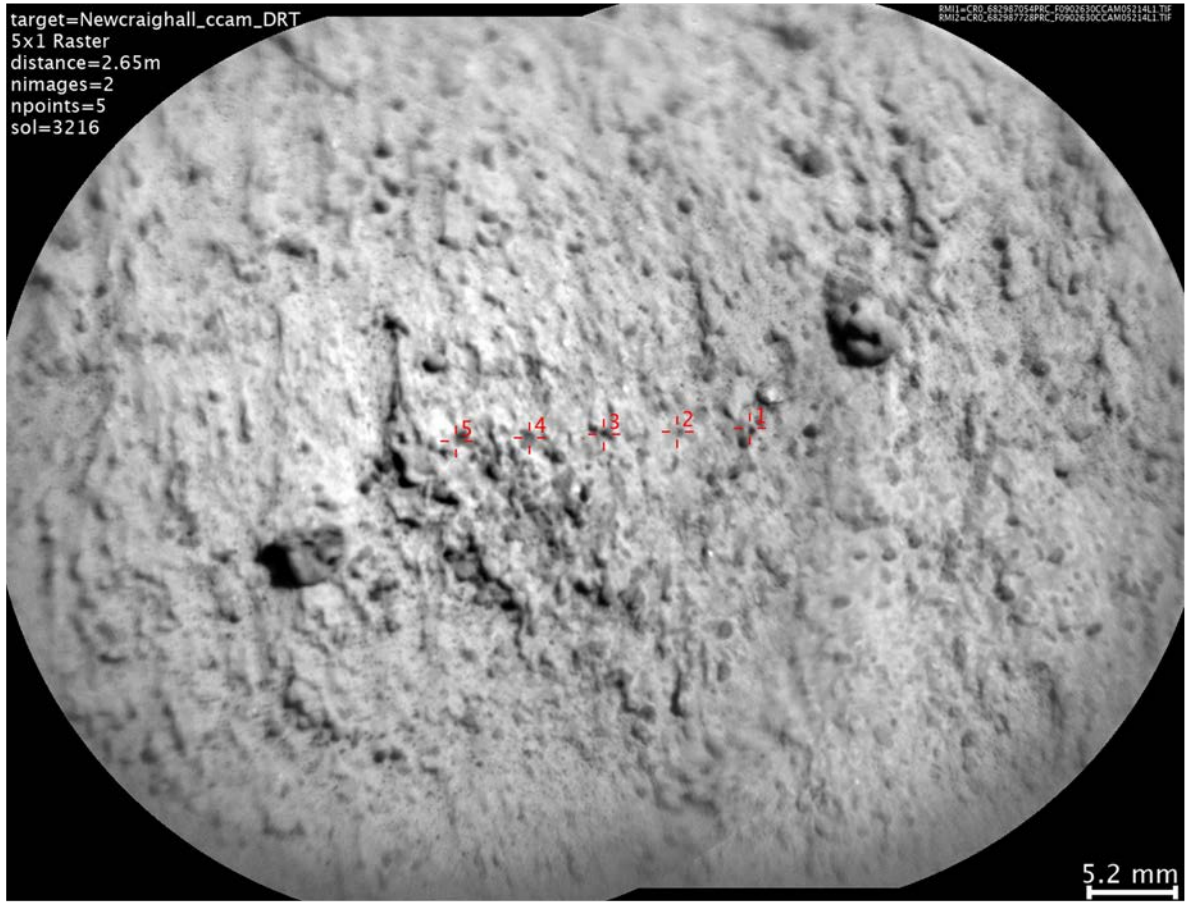


**Target:** Newcraighall_ccam_DRT **Sol:** 3216 **Elev (m.):** -4023.79534328035 **CCAM Sequence ID:** CCAM05214

**Whole Target Classification:** Bedrock
**Lamination Strength:** Weakly Laminated
**Lamination Expression:** Laminae-Parallel Nodules
**Grain Visibility:** Below RMI Image Resolution
**Bedrock Appearance:** Dull
**Nodule Presence:** Pervasive (>50% by Visual Inspection)
**Nodule Diameter:** Small (<1 mm)
**Nodule Resistance:** Protruding
**Fracture Presence:** Absent

| # | Feature | SiO2 (wt%) | TiO2 (wt%) | Al2O3 (wt%) | FeOT (wt%) | MgO (wt%) | CaO (wt%) | Na2O (wt%) | K2O (wt%) | Sum of Oxides (wt%) |
|---|---|---|---|---|---|---|---|---|---|---|
| 1 | Nodule | 40.7 | 0.72 | 8.5 | 27.6 | 3.2 | 13.1 | 1.59 | 0.42 | 95.84 |
| 2 | Nodule | 35.7 | 0.69 | 6.8 | 13.6 | 2.9 | 20.1 | 1.21 | 0.3 | 81.34 |
| 3 | Nodule | 52.6 | 1.1 | 11.6 | 20.4 | 4.2 | 2.4 | 2.64 | 0.9 | 95.7 |
| 4 | Nodule | 48.5 | 0.72 | 10.1 | 8.9 | 3.1 | 0.1 | 14.84 | 0.28 | 86.57 |
| 5 | Nodule | 42 | 0.66 | 8.4 | 13.5 | 3.1 | 18.3 | 1.36 | 0.51 | 87.79 |

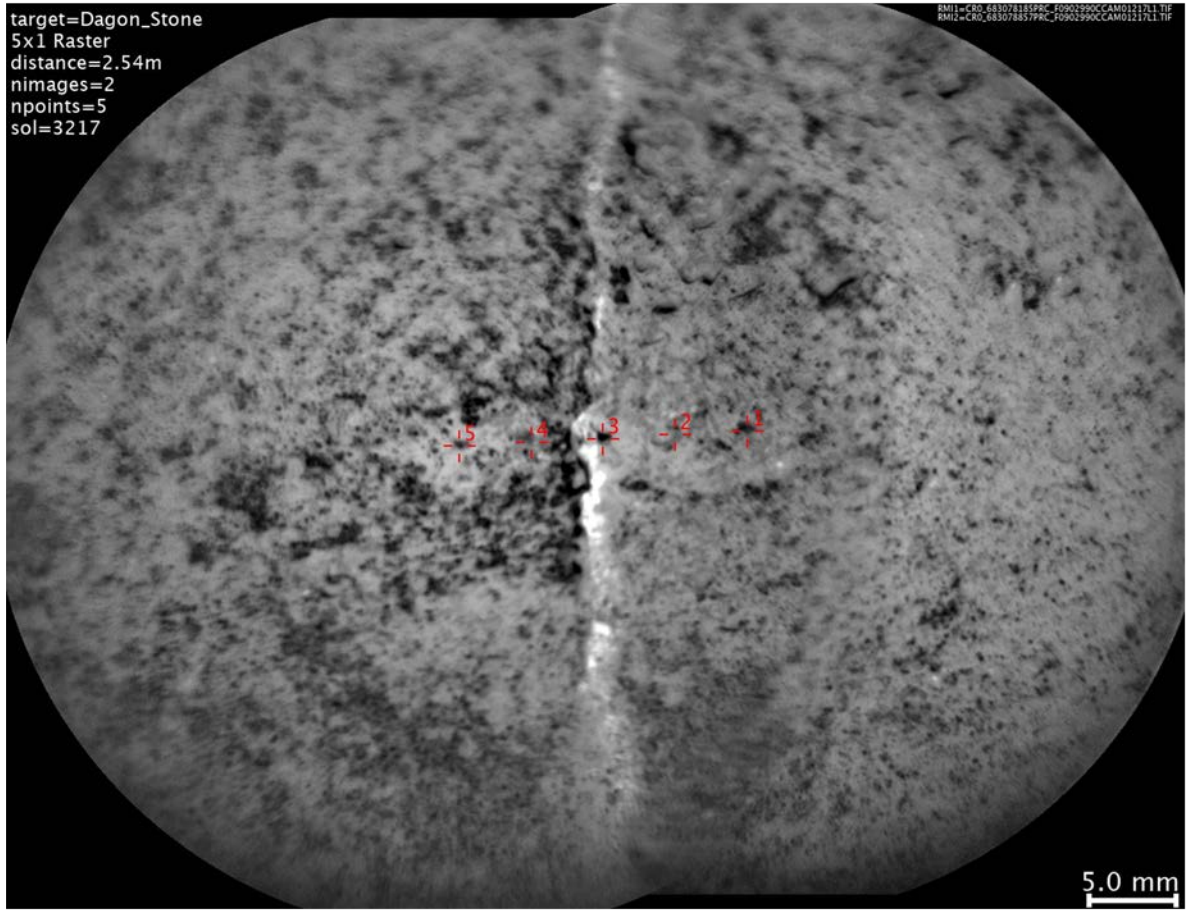


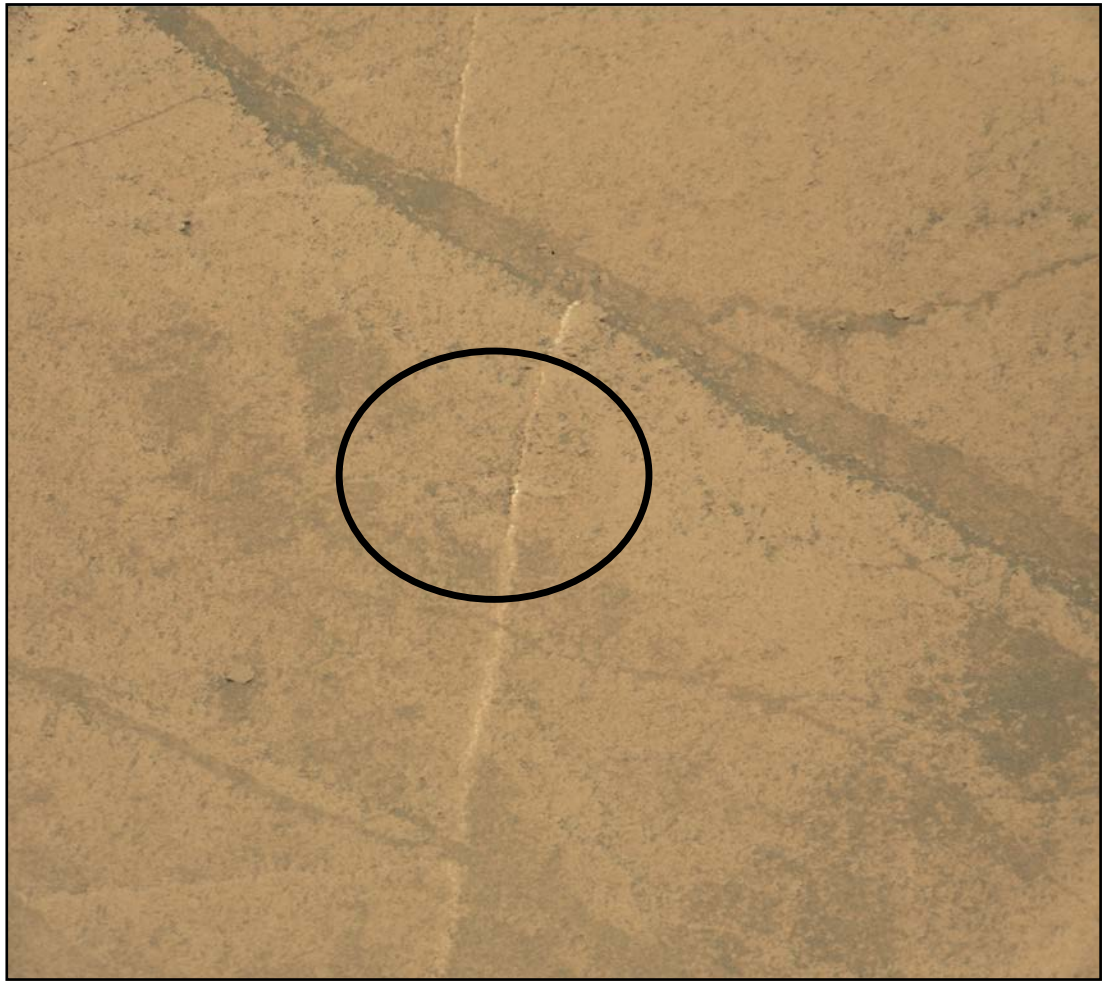
# Target: Dagon_Stone

**Sol:** 3217
**Elev (m.):** -4020.20340441229
**CCAM Sequence ID:** CCAM01217

**Whole Target Classification:** Bedrock
**Lamination Strength:** Absent
**Lamination Expression:** Absent
**Grain Visibility:** Below RMI Image Resolution
**Bedrock Appearance:** Dull
**Nodule Presence:** Absent
**Nodule Diameter:** Absent
**Nodule Resistance:** Absent
**Fracture Presence:** Occasional (<10% by Visual Inspection)

| # | Feature | SiO2 (wt%) | TiO2 (wt%) | Al2O3 (wt%) | FeOT (wt%) | MgO (wt%) | CaO (wt%) | Na2O (wt%) | K2O (wt%) | Sum of Oxides (wt%) |
|---|---|---|---|---|---|---|---|---|---|---|
| 1 | Bedrock | 50.4 | 0.97 | 11.3 | 20.4 | 4.5 | 2.1 | 2.58 | 0.81 | 93.03 |
| 2 | Bedrock | 45.2 | 0.73 | 7.3 | 17 | 14.3 | 4.2 | 1.52 | 0.54 | 90.77 |
| 3 | Vein or Fracture | 45.6 | 0.89 | 10.4 | 25.8 | 3.1 | 2.1 | 2.35 | 0.7 | 90.91 |
| 4 | Bedrock | 55.1 | 1.07 | 12.2 | 19.6 | 4.5 | 2.4 | 2.61 | 0.98 | 98.36 |
| 5 | Bedrock | 56.4 | 1.04 | 12.1 | 19.6 | 4.5 | 2.5 | 2.64 | 1.08 | 99.83 |



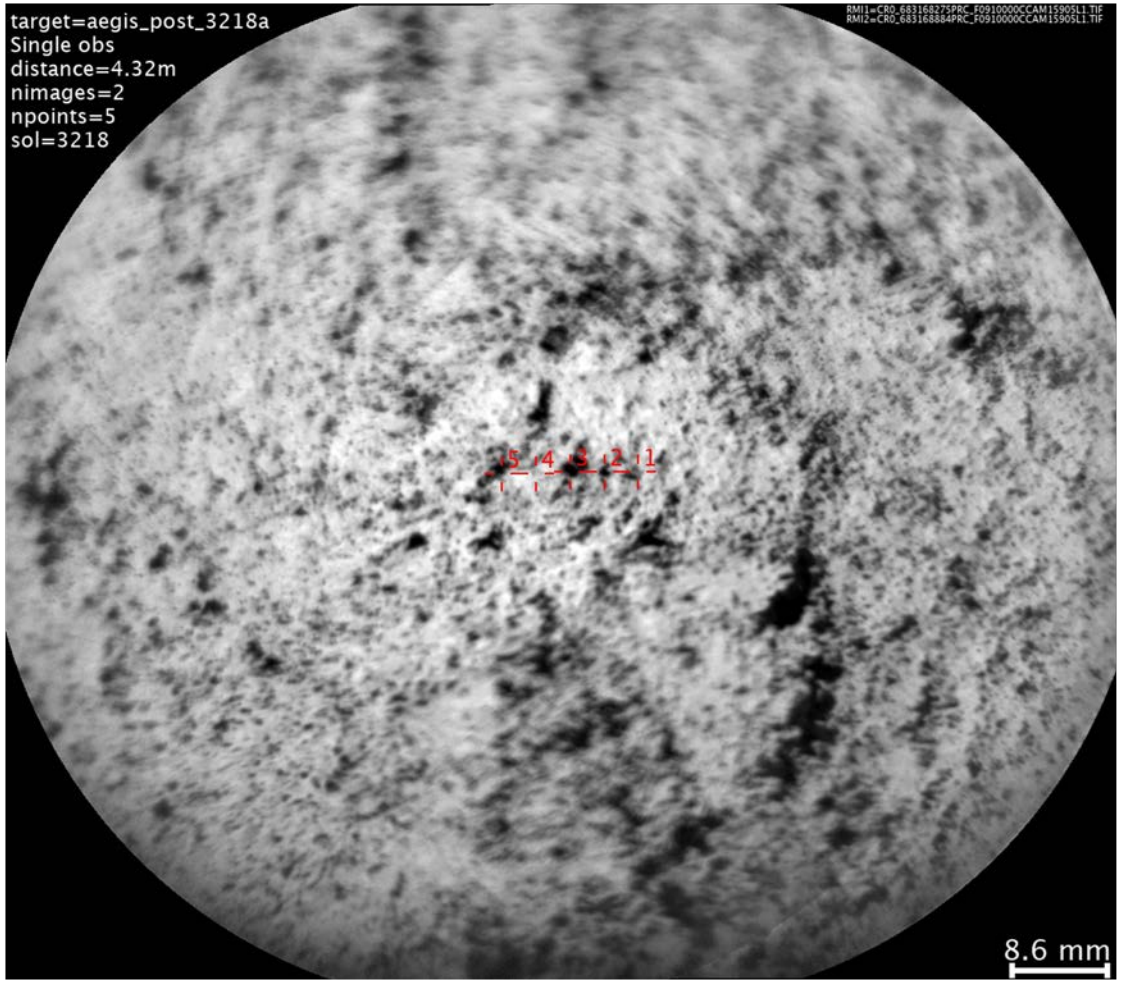



# Target: aegis_post_3218a

**Sol:** 3218
**Elev (m.):** -4018.522519

**CCAM Sequence ID:** CCAM15905

**Whole Target Classification:** Bedrock
**Lamination Strength:** Absent
**Lamination Expression:** Absent
**Grain Visibility:** Below RMI Image Resolution
**Bedrock Appearance:** Dull
**Nodule Presence:** Absent
**Nodule Diameter:** Absent
**Nodule Resistance:** Absent
**Fracture Presence:** Absent



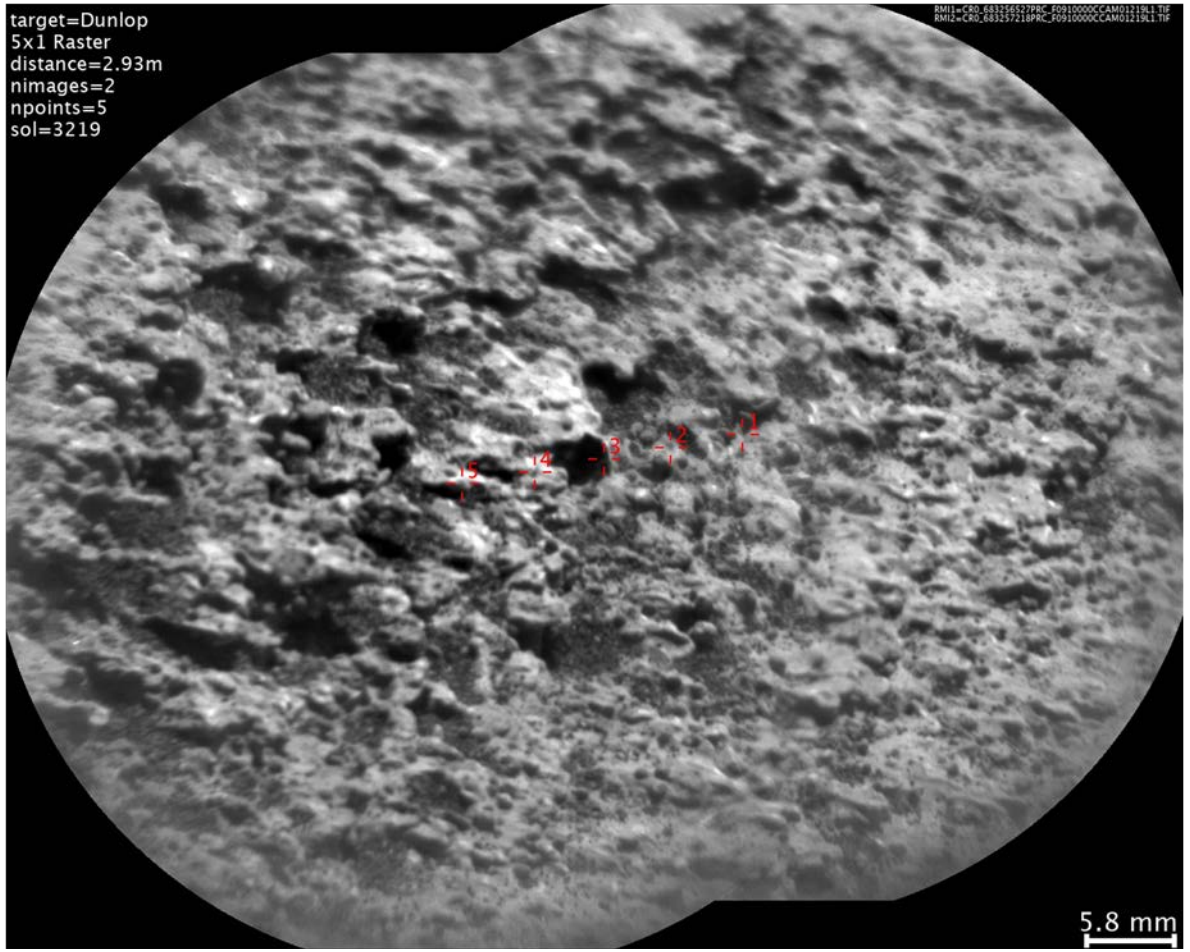

| # | Feature | SiO2 (wt%) | TiO2 (wt%) | Al2O3 (wt%) | FeOT (wt%) | MgO (wt%) | CaO (wt%) | Na2O (wt%) | K2O (wt%) | Sum of Oxides (wt%) |
|---|---|---|---|---|---|---|---|---|---|---|
| 1 | Bedrock | 46.9 | 0.8 | 11.7 | 17 | 3.8 | 12.8 | 2.07 | 0.79 | 95.89 |
| 2 | Bedrock | 46.8 | 0.7 | 10.5 | 26.2 | 3.8 | 1.6 | 2.38 | 0.7 | 92.59 |
| 3 | Bedrock | 45.9 | 0.7 | 10.4 | 31.8 | 3.8 | 1.4 | 2.89 | 0.96 | 97.84 |
| 4 | Bedrock | 53.2 | 0.76 | 11.7 | 16.4 | 16.1 | 1.6 | 2.56 | 1.3 | 103.64 |
| 5 | Bedrock | 54.4 | 0.92 | 14 | 19 | 7.5 | 2.2 | 3.29 | 1.4 | 102.6 |

# Target: Dunlop

**Sol:** 3219
**Elev (m.):** -4017.77448356572
**CCAM Sequence ID:** CCAM01219

**Whole Target Classification:** Bedrock
**Lamination Strength:** Moderately Laminated
**Lamination Expression:** Laminae-Parallel Nodules
**Grain Visibility:** Below RMI Image Resolution
**Bedrock Appearance:** Dull
**Nodule Presence:** Pervasive (>50% by Visual Inspection)
**Nodule Diameter:** Small (<1 mm)
**Nodule Resistance:** Protruding
**Fracture Presence:** Occasional (<10% by Visual Inspection)

| # | Feature | SiO2 (wt%) | TiO2 (wt%) | Al2O3 (wt%) | FeOT (wt%) | MgO (wt%) | CaO (wt%) | Na2O (wt%) | K2O (wt%) | Sum of Oxides (wt%) |
|---|---|---|---|---|---|---|---|---|---|---|
| 1 | Nodule | 55.6 | 1.09 | 12.9 | 17.9 | 5.8 | 2.2 | 2.52 | 0.93 | 98.92 |
| 2 | Nodule | 53.9 | 1.07 | 11.6 | 19.5 | 5.9 | 2 | 2.64 | 0.99 | 97.6 |
| 3 | Nodule | 15.2 | 0 | 3.1 | 4 | 2.1 | 32.1 | 0.38 | 0.12 | 57.02 |
| 4 | Nodule | 30.5 | 0.42 | 6.2 | 12 | 2.4 | 23.4 | 0.88 | 0.34 | 76.13 |
| 5 | Nodule | 31.4 | 0.64 | 5.8 | 10.5 | 2.6 | 25.9 | 0.9 | 0.36 | 78.1 |



# Target: aegis_post_3220a

**Sol:** 3220
**Elev (m.):** -4015.84261086547
**CCAM Sequence ID:** CCAM15905

**Whole Target Classification:** Bedrock
**Lamination Strength:** Absent
**Lamination Expression:** Absent
**Grain Visibility:** Below RMI Image Resolution
**Bedrock Appearance:** Dull
**Nodule Presence:** Pervasive (>50% by Visual Inspection)
**Nodule Diameter:** Small (<1 mm)
**Nodule Resistance:** Protruding
**Fracture Presence:** Absent

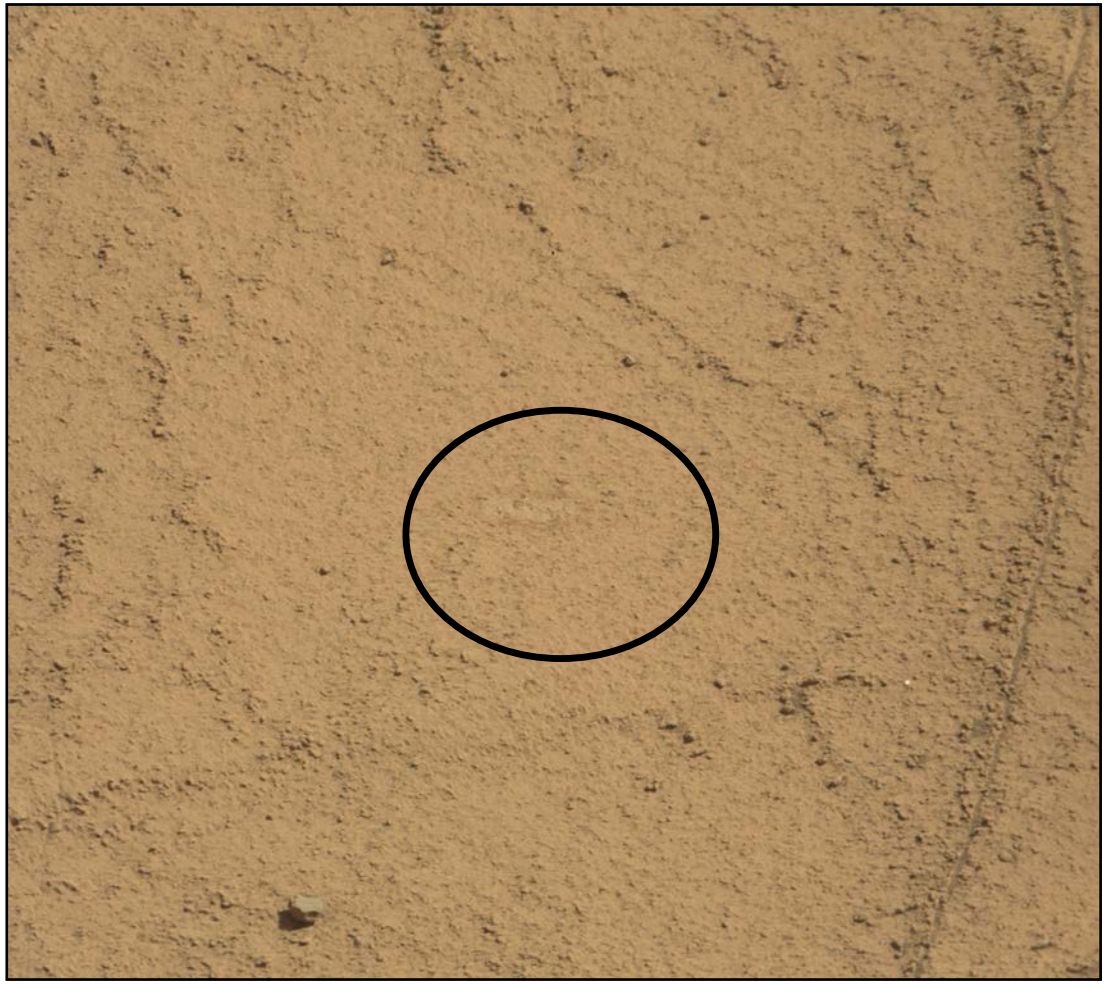
| # | Feature | SiO2 (wt%) | TiO2 (wt%) | Al2O3 (wt%) | FeOT (wt%) | MgO (wt%) | CaO (wt%) | Na2O (wt%) | K2O (wt%) | Sum of Oxides (wt%) |
|---|---|---|---|---|---|---|---|---|---|---|
| 1 | Bedrock | 55.5 | 1.1 | 12.6 | 20 | 4.8 | 2.4 | 2.75 | 1.04 | 100.18 |
| 2 | Bedrock | 56.2 | 1.09 | 11.9 | 20.3 | 4.5 | 2.1 | 2.75 | 1.2 | 100.14 |
| 3 | Bedrock | 44.1 | 0.81 | 8.8 | 31.4 | 3.6 | 1.3 | 2.3 | 0.69 | 92.98 |
| 4 | Bedrock | 56.5 | 1.11 | 13.1 | 18.6 | 4.5 | 2.5 | 2.8 | 1.08 | 100.31 |
| 5 | Bedrock | 54.8 | 1.03 | 13.1 | 18.1 | 6.6 | 2.4 | 2.7 | 0.95 | 99.64 |

# Target: Saltopus_ccam

**Sol:** 3221
**Elev (m.):** -4015.30306614038
**CCAM Sequence ID:** CCAM01221

**Whole Target Classification:** Bedrock
**Lamination Strength:** Weakly Laminated
**Lamination Expression:** Laminae-Parallel Nodules
**Grain Visibility:** Below RMI Image Resolution
**Bedrock Appearance:** Dull
**Nodule Presence:** Pervasive (>50% by Visual Inspection)
**Nodule Diameter:** Small (<1 mm)
**Nodule Resistance:** Protruding
**Fracture Presence:** Absent

| # | Feature | SiO2 (wt%) | TiO2 (wt%) | Al2O3 (wt%) | FeOT (wt%) | MgO (wt%) | CaO (wt%) | Na2O (wt%) | K2O (wt%) | Sum of Oxides (wt%) |
|---|---|---|---|---|---|---|---|---|---|---|
| 1 | Nodule | 45.8 | 0.84 | 9.1 | 25.1 | 3 | 1.6 | 2.21 | 0.63 | 88.28 |
| 2 | Nodule | 49.9 | 0.87 | 10.3 | 19.7 | 3.5 | 1.9 | 2.65 | 0.94 | 89.68 |
| 3 | Nodule | 53.7 | 1.11 | 12 | 21.6 | 4.1 | 2.4 | 2.64 | 1.08 | 98.57 |
| 4 | Nodule | 55.7 | 0.99 | 12.7 | 18.9 | 4.7 | 2.6 | 2.39 | 0.8 | 98.68 |
| 5 | Nodule | 55.5 | 1 | 11.4 | 19.4 | 4.5 | 2.4 | 2.74 | 1.09 | 98.07 |



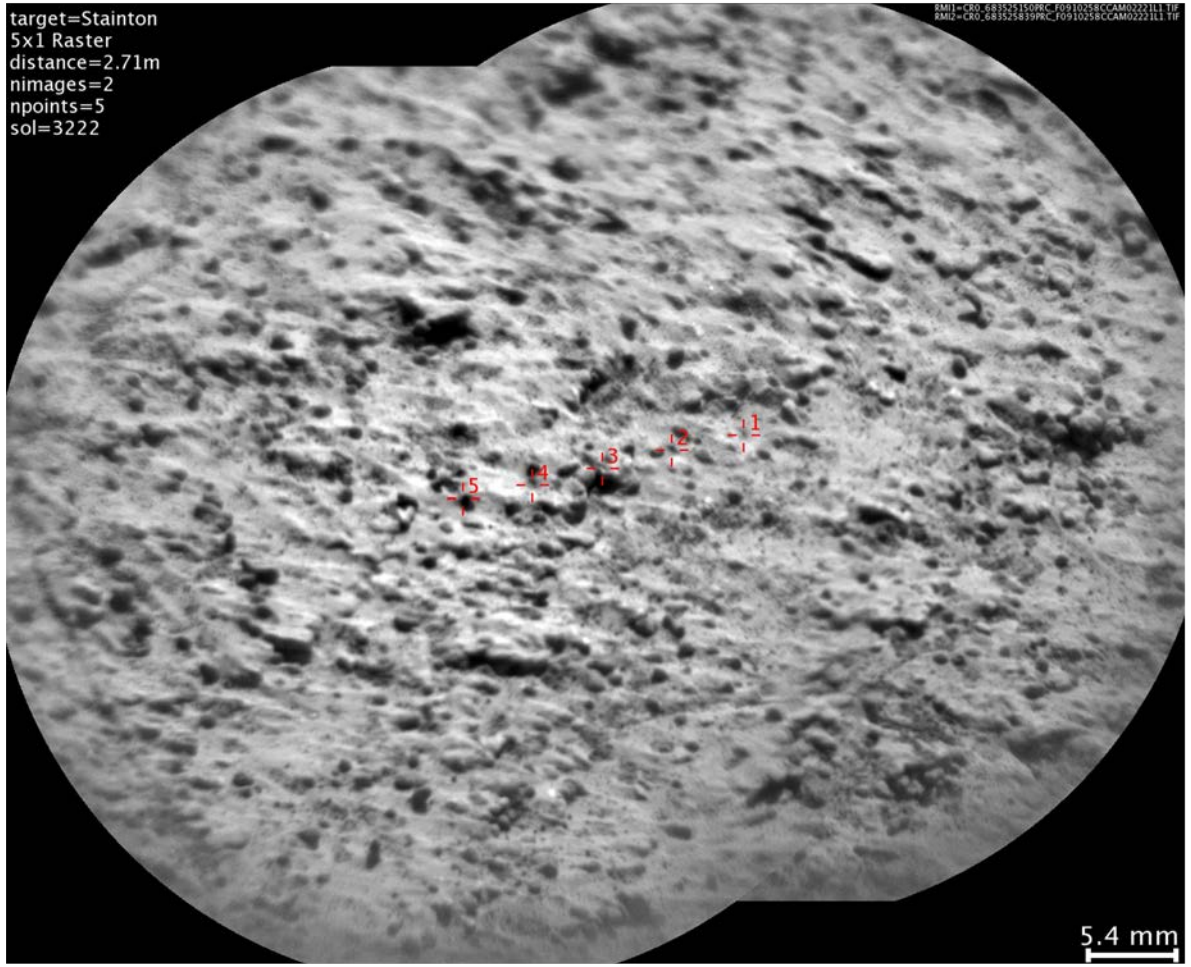
# Target: Stainton

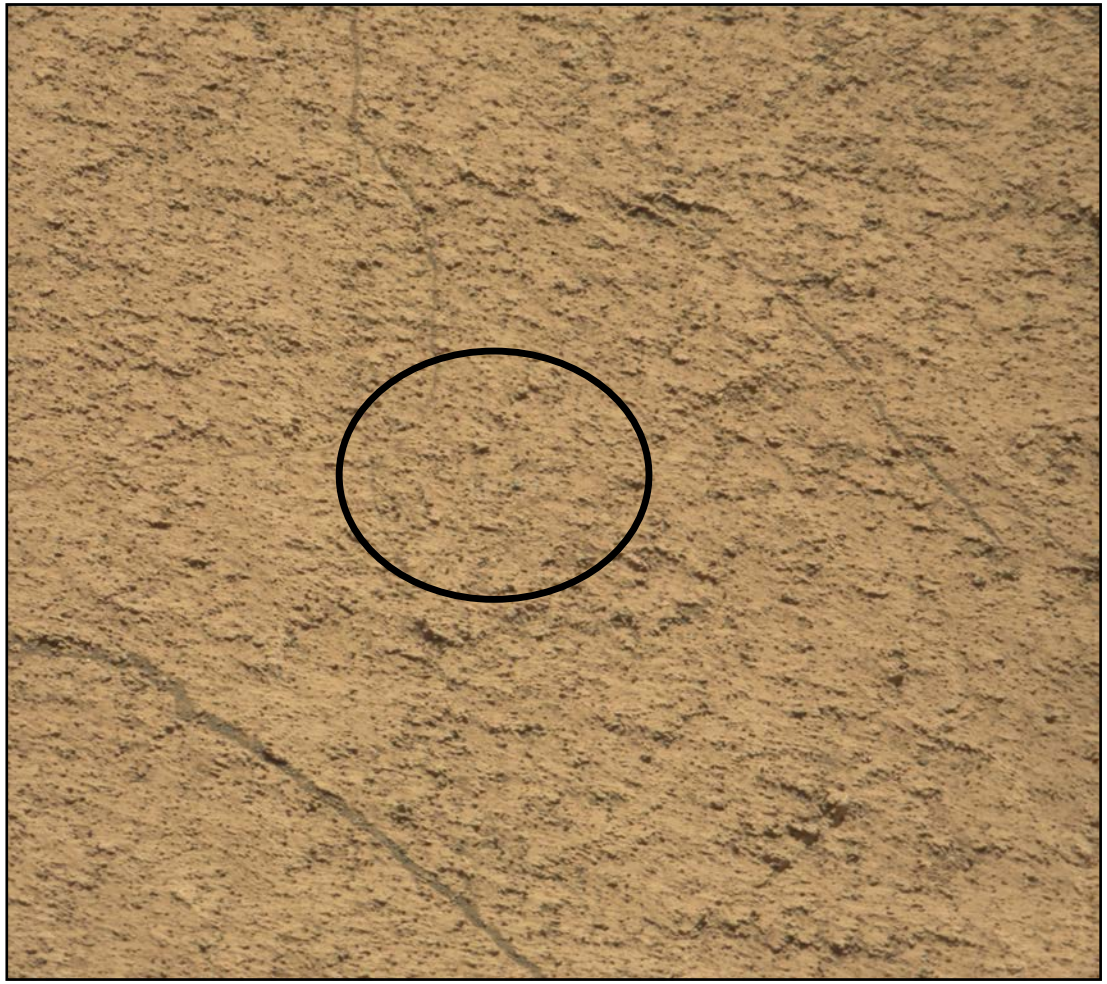
**Sol:** 3222
**Elev (m.):** -4015.3166249773

**CCAM Sequence ID:** CCAM02221

**Whole Target Classification:** Bedrock
**Lamination Strength:** Absent
**Lamination Expression:** Absent
**Grain Visibility:** Below RMI Image Resolution
**Bedrock Appearance:** Dull
**Nodule Presence:** Pervasive (>50% by Visual Inspection)
**Nodule Diameter:** Small (<1 mm)
**Nodule Resistance:** Protruding
**Fracture Presence:** Absent

| # | Feature | SiO2 (wt%) | TiO2 (wt%) | Al2O3 (wt%) | FeOT (wt%) | MgO (wt%) | CaO (wt%) | Na2O (wt%) | K2O (wt%) | Sum of Oxides (wt%) |
|---|---|---|---|---|---|---|---|---|---|---|
| 1 | Nodule | 52.4 | 0.88 | 12.3 | 16.4 | 3.6 | 7.8 | 2.59 | 1.06 | 97.05 |
| 2 | Bedrock | 55 | 1.11 | 12.8 | 20.3 | 4.3 | 2.5 | 2.76 | 1.18 | 99.9 |
| 3 | Nodule | 20.6 | 0.58 | 3.7 | 9 | 2.3 | 29.4 | 0.43 | 0.09 | 66.22 |
| 4 | Bedrock | 56.2 | 1.1 | 12.8 | 19.3 | 4.6 | 2.6 | 2.8 | 1.21 | 100.66 |
| 5 | Nodule | 44.1 | 0.81 | 9 | 29.6 | 3.1 | 1.4 | 2.44 | 0.83 | 91.29 |



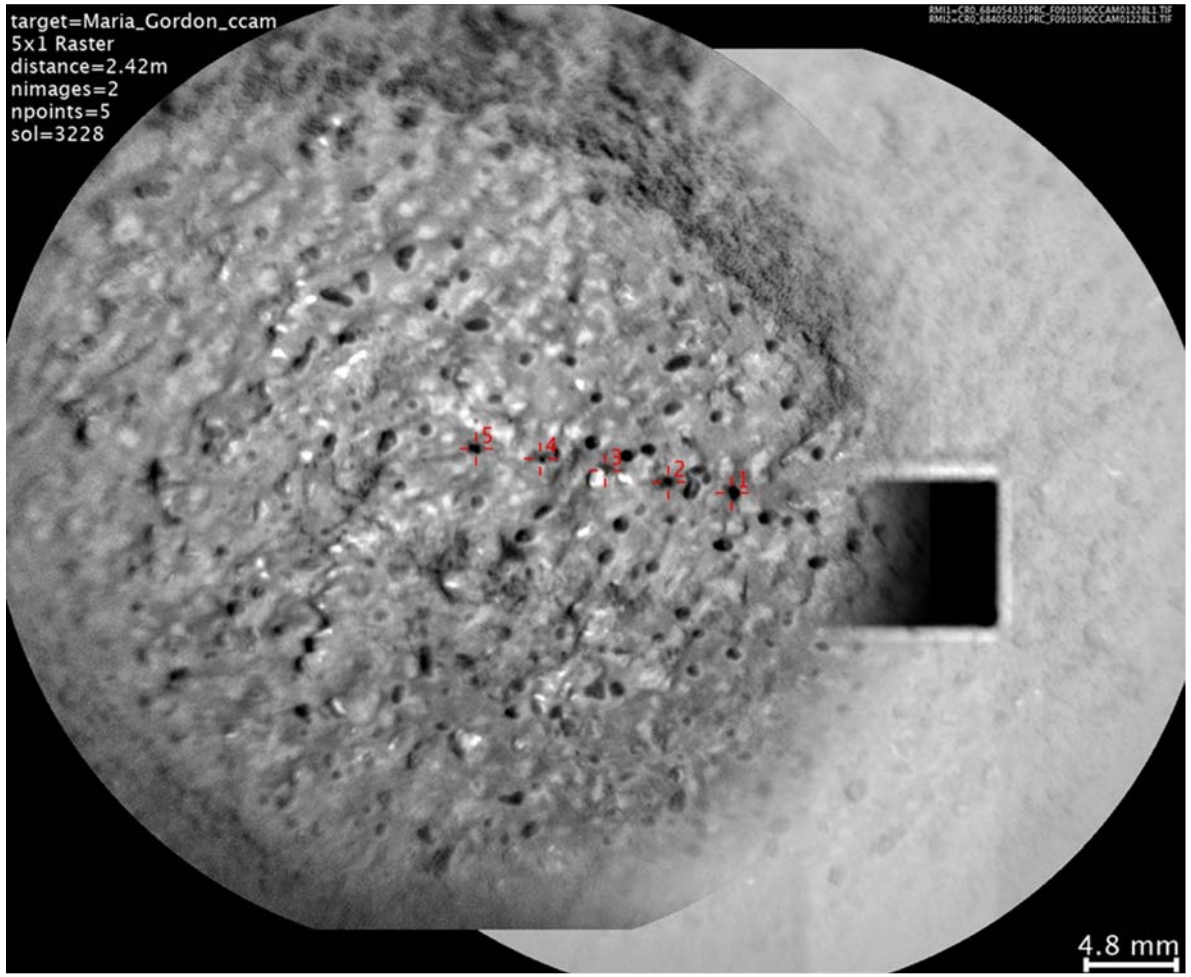



# Target: Maria_Gordon_ccam

**Sol:** 3228
**Elev (m.):** -4014.90223934181
**CCAM Sequence ID:** CCAM01228

**Whole Target Classification:** Bedrock
**Lamination Strength:** Absent
**Lamination Expression:** Absent
**Grain Visibility:** Below RMI Image Resolution
**Bedrock Appearance:** Dull
**Nodule Presence:** Pervasive (>50% by Visual Inspection)
**Nodule Diameter:** Small (<1 mm)
**Nodule Resistance:** Protruding
**Fracture Presence:** Absent

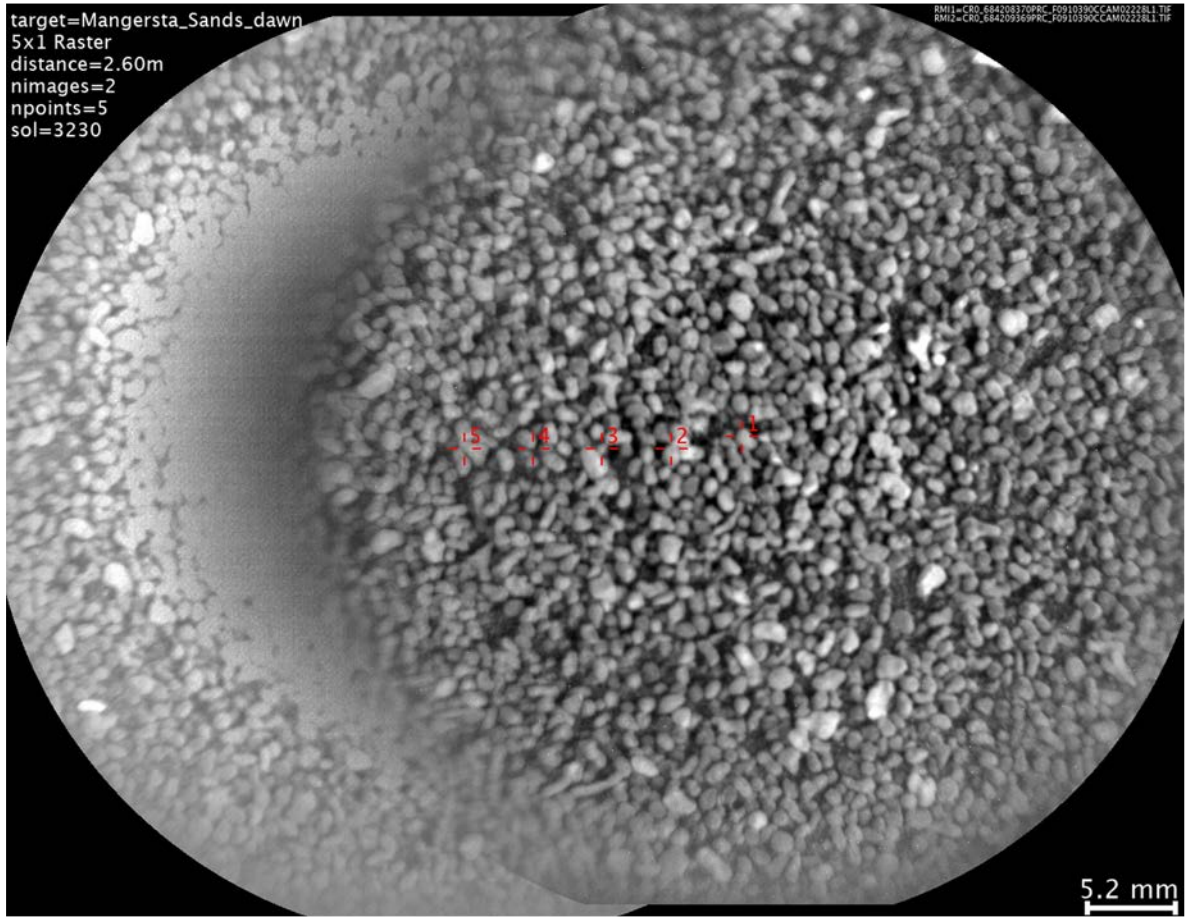
| # | Feature | SiO2 (wt%) | TiO2 (wt%) | Al2O3 (wt%) | FeOT (wt%) | MgO (wt%) | CaO (wt%) | Na2O (wt%) | K2O (wt%) | Sum of Oxides (wt%) |
|---|---|---|---|---|---|---|---|---|---|---|
| 1 | Nodule | 46.8 | 0.87 | 8.3 | 21.9 | 4 | 1.7 | 2.11 | 0.67 | 86.41 |
| 3 | Nodule | 57.1 | 0.97 | 11.3 | 17.5 | 4.9 | 2.6 | 2.41 | 0.88 | 97.52 |
| 4 | Nodule | 56.7 | 1.02 | 11.9 | 18.3 | 4.7 | 2.5 | 2.77 | 1.06 | 99.06 |
| 5 | Nodule | 56.1 | 1.07 | 12.3 | 19.5 | 4.6 | 2.5 | 2.67 | 1.03 | 99.66 |

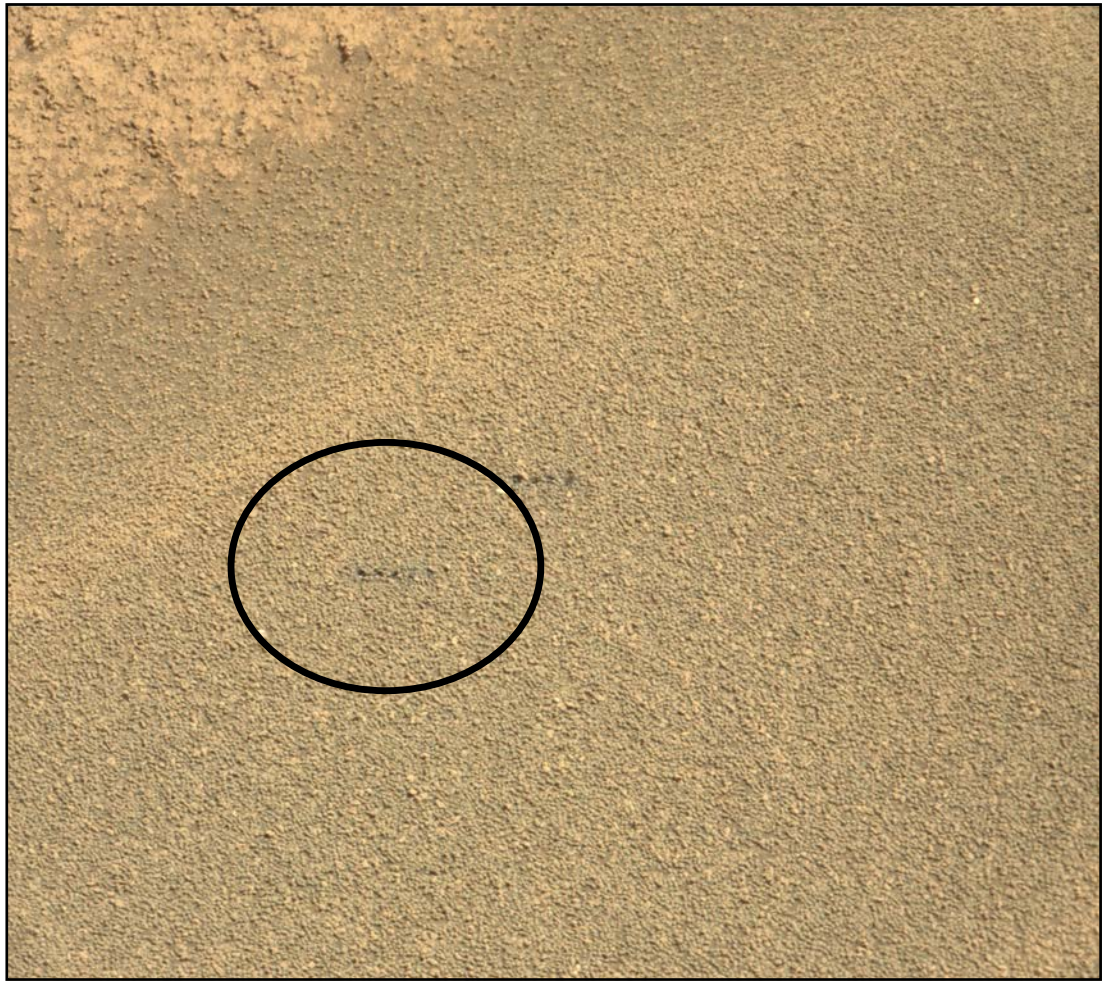


**Target:** Mangersta_Sands_dawn **Sol:** 3228 **Elev (m.):** -4014.79219190462 **CCAM Sequence ID:** CCAM02228

**Whole Target Classification:** Unconsolidated (Sand/Soil/Pebbles)
**Lamination Strength:** Absent
**Lamination Expression:** Absent
**Grain Visibility:** Below RMI Image Resolution
**Bedrock Appearance:** Dull
**Nodule Presence:** Absent
**Nodule Diameter:** Absent
**Nodule Resistance:** Absent
**Fracture Presence:** Absent

| # | Feature | SiO2 (wt%) | TiO2 (wt%) | Al2O3 (wt%) | FeOT (wt%) | MgO (wt%) | CaO (wt%) | Na2O (wt%) | K2O (wt%) | Sum of Oxides (wt%) |
|---|---|---|---|---|---|---|---|---|---|---|
| 1 | Sand | 40.9 | 0.82 | 8 | 32.3 | 3.9 | 3.1 | 2.01 | 0.41 | 91.5 |
| 2 | Sand | 49.3 | 1.08 | 12.5 | 16 | 3.8 | 8.9 | 4.01 | 1.26 | 96.83 |
| 3 | Sand | 38 | 0.65 | 8.2 | 37 | 2.3 | 0.9 | 1.82 | 0.29 | 89.23 |
| 4 | Sand | 40.4 | 0.72 | 7.2 | 16.1 | 5.2 | 15 | 1.11 | 0.21 | 85.87 |
| 5 | Sand | 33.2 | 0.63 | 6.9 | 13 | 2.1 | 22.4 | 1.05 | 0.24 | 79.49 |



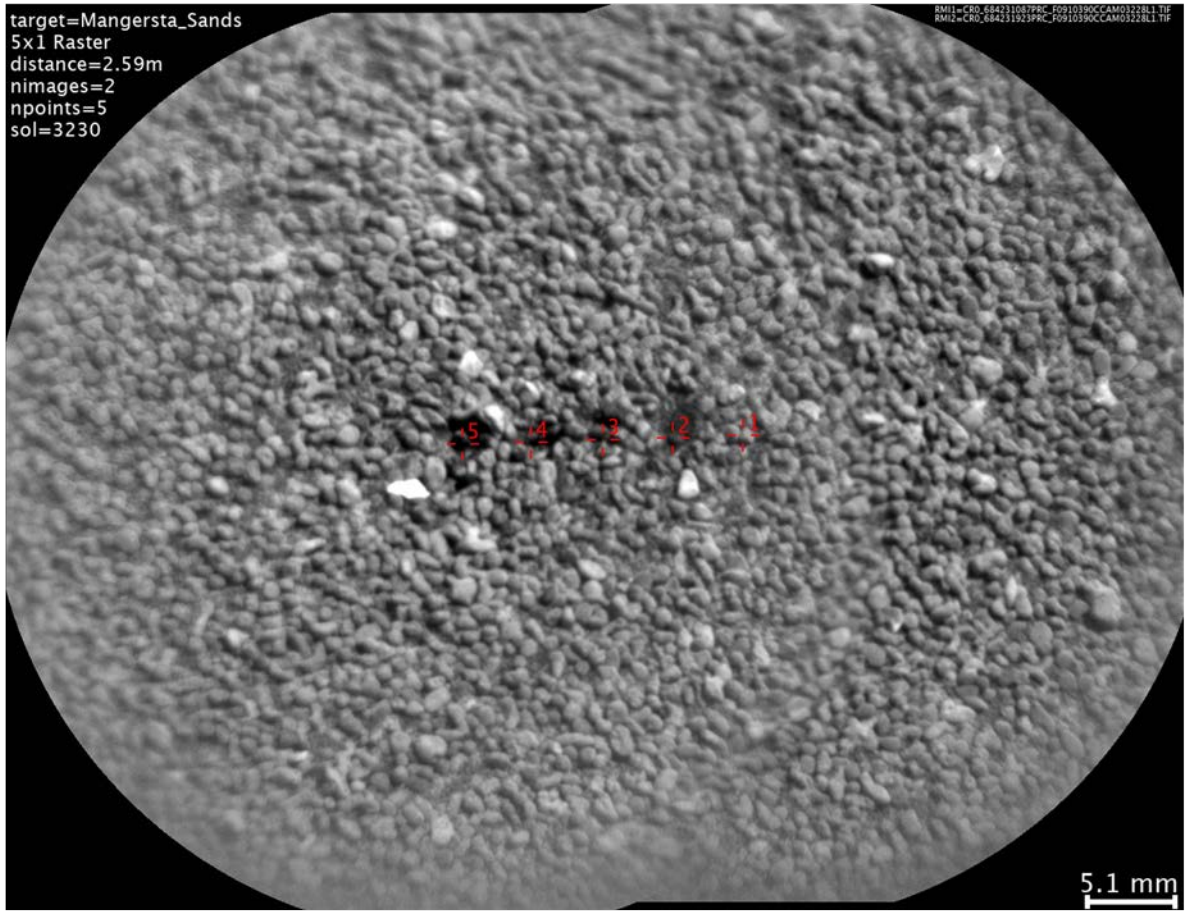



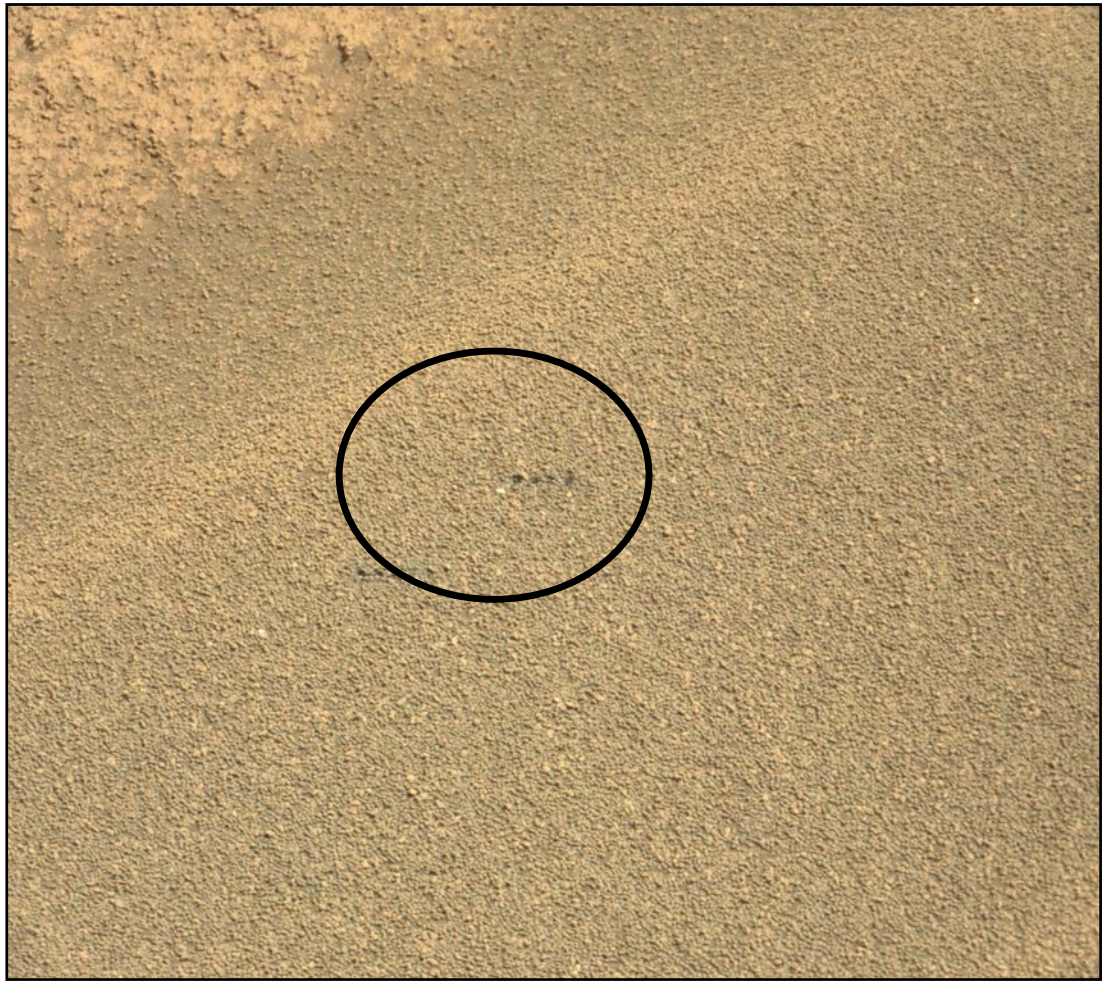
# Target: Mangersta_Sands

**Sol:** 3230
**Elev (m.):** -4014.78182999891
**CCAM Sequence ID:** CCAM03228

**Whole Target Classification:** Unconsolidated (Sand/Soil/Pebbles)
**Lamination Strength:** Absent
**Lamination Expression:** Absent
**Grain Visibility:** Below RMI Image Resolution
**Bedrock Appearance:** Dull
**Nodule Presence:** Absent
**Nodule Diameter:** Absent
**Nodule Resistance:** Absent
**Fracture Presence:** Absent

| # | Feature | SiO2 (wt%) | TiO2 (wt%) | Al2O3 (wt%) | FeOT (wt%) | MgO (wt%) | CaO (wt%) | Na2O (wt%) | K2O (wt%) | Sum of Oxides (wt%) |
|---|---|---|---|---|---|---|---|---|---|---|
| 1 | Sand | 49 | 0.75 | 9.2 | 17.7 | 6.9 | 7.9 | 2.52 | 1.09 | 94.94 |
| 2 | Sand | 38.2 | 0.84 | 6.6 | 31 | 4.4 | 2.7 | 1.87 | 0.37 | 86.06 |
| 3 | Sand | 40.6 | 0.83 | 7.9 | 19.2 | 6.3 | 9.5 | 1.89 | 0.29 | 86.59 |
| 4 | Sand | 34.2 | 0.61 | 8 | 37.4 | 3.3 | 1.6 | 2.27 | 0.3 | 87.78 |
| 5 | Sand | 45.2 | 0.86 | 8.7 | 20.8 | 5.1 | 5.8 | 2.21 | 1.21 | 89.91 |



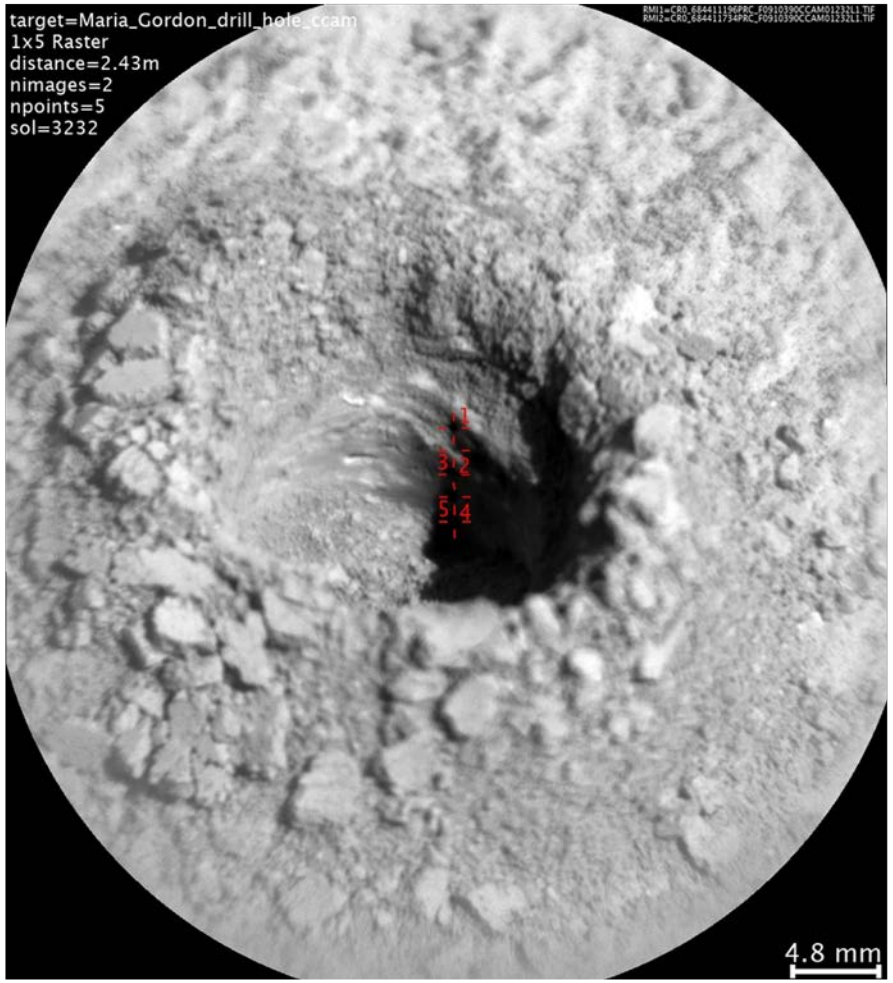



# Target: Maria_Gordon_drill_hole_ccam

**Sol:** 3232
**Elev (m.):** -4014.90498246872
**CCAM Sequence ID:** CCAM01232

**Whole Target Classification:** Bedrock
**Lamination Strength:** Absent
**Lamination Expression:** Absent
**Grain Visibility:** Below RMI Image Resolution
**Bedrock Appearance:** Dull
**Nodule Presence:** Pervasive (>50% by Visual Inspection)
**Nodule Diameter:** Small (<1 mm)
**Nodule Resistance:** Protruding
**Fracture Presence:** Absent

| # | Feature | SiO2 (wt%) | TiO2 (wt%) | Al2O3 (wt%) | FeOT (wt%) | MgO (wt%) | CaO (wt%) | Na2O (wt%) | K2O (wt%) | Sum of Oxides (wt%) |
|---|---|---|---|---|---|---|---|---|---|---|
| 1 | Nodule | 56.3 | 0.98 | 11.8 | 19.4 | 4.7 | 2.4 | 2.65 | 0.95 | 99.17 |
| 2 | Nodule | 49.1 | 0.93 | 10.5 | 18.5 | 3.6 | 8 | 1.99 | 0.74 | 93.41 |
| 3 | Nodule | 39.2 | 0.71 | 7.1 | 14.4 | 2.5 | 16.5 | 1.11 | 0.36 | 81.79 |
| 4 | Nodule | 55.3 | 1.13 | 11 | 18.9 | 4.9 | 2.9 | 2.14 | 0.69 | 96.89 |
| 5 | Nodule | 50.3 | 0.92 | 8.5 | 18.4 | 5.3 | 6 | 1.72 | 0.66 | 91.82 |

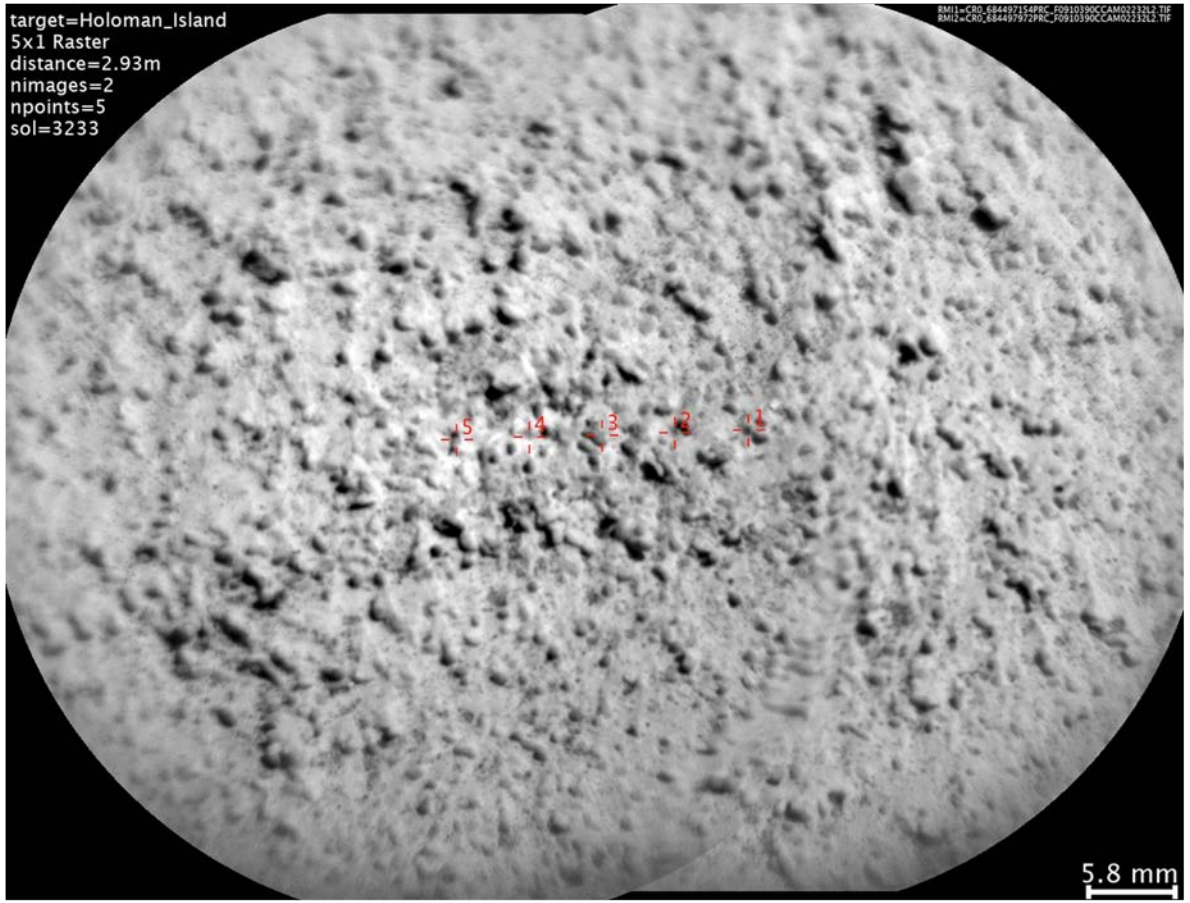


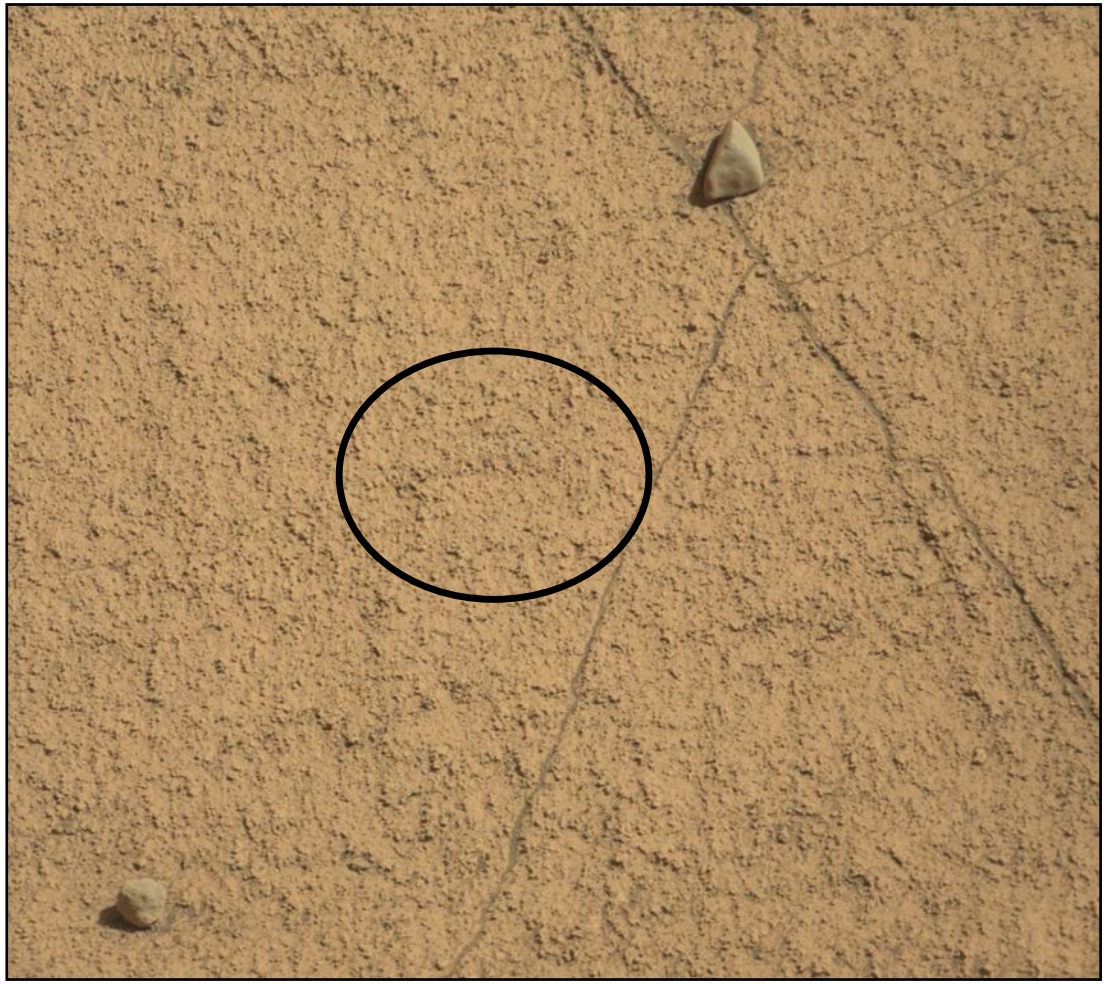
# Target: Holoman_Island

**Sol:** 3232
**Elev (m.):** -4014.78550856962
**CCAM Sequence ID:** CCAM02232

**Whole Target Classification:** Bedrock
**Lamination Strength:** Absent
**Lamination Expression:** Absent
**Grain Visibility:** Below RMI Image Resolution
**Bedrock Appearance:** Dull
**Nodule Presence:** Pervasive (>50% by Visual Inspection)
**Nodule Diameter:** Small (<1 mm)
**Nodule Resistance:** Protruding
**Fracture Presence:** Absent

| # | Feature | SiO2 (wt%) | TiO2 (wt%) | Al2O3 (wt%) | FeOT (wt%) | MgO (wt%) | CaO (wt%) | Na2O (wt%) | K2O (wt%) | Sum of Oxides (wt%) |
|---|---|---|---|---|---|---|---|---|---|---|
| 1 | Nodule | 41.9 | 0.77 | 8.3 | 34.4 | 2.8 | 1 | 2.07 | 0.65 | 91.88 |
| 2 | Nodule | 55.4 | 1.01 | 12.2 | 19.9 | 5.1 | 2.4 | 2.75 | 1.17 | 99.97 |
| 3 | Nodule | 37.6 | 0.72 | 7 | 19.8 | 14.4 | 7.4 | 1.23 | 0.25 | 88.45 |
| 4 | Nodule | 49.1 | 0.84 | 10.3 | 18.2 | 8.1 | 4.7 | 2.16 | 0.8 | 94.2 |
| 5 | Nodule | 44.6 | 0.77 | 7.8 | 16.9 | 20.4 | 1.4 | 1.52 | 0.37 | 93.8 |



# Target: Maria_Gordon_drill_hole_ccam2

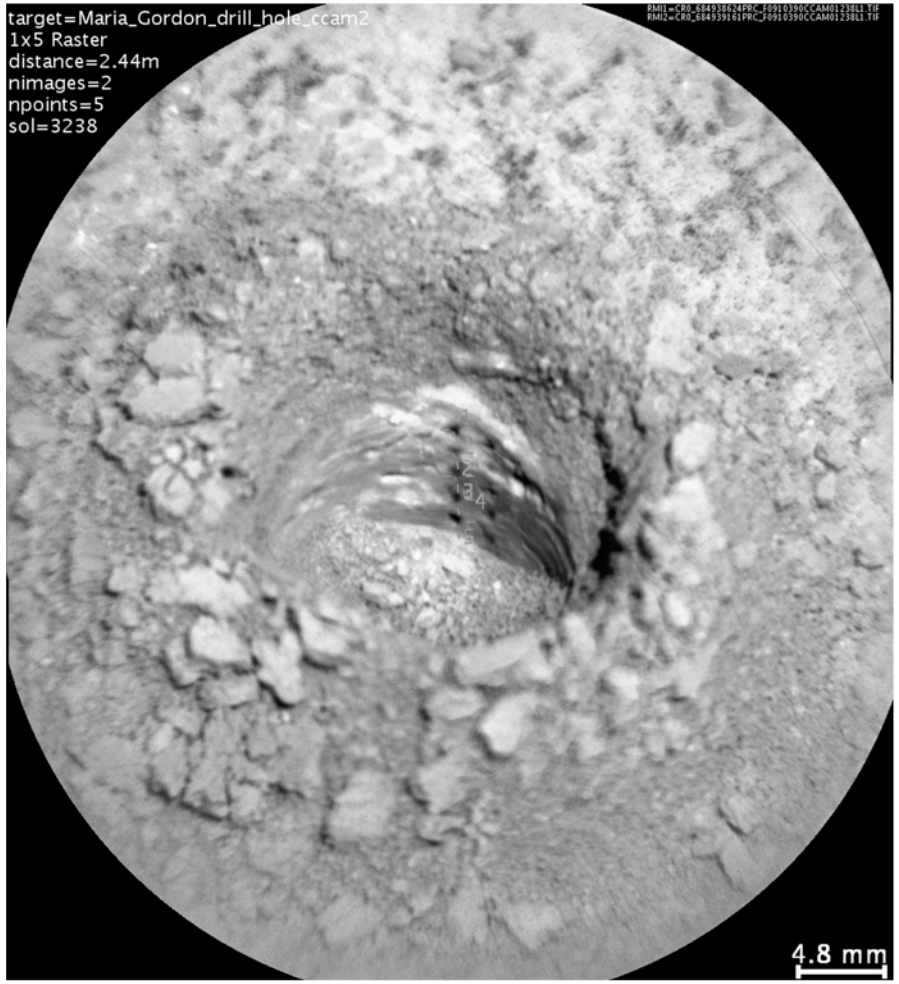
**Sol:** 3235

**Elev (m.):** -4014.90528519645

**CCAM Sequence ID:** CCAM01238

**Whole Target Classification:** Bedrock
**Lamination Strength:** Absent
**Lamination Expression:** Absent
**Grain Visibility:** Below RMI Image Resolution
**Bedrock Appearance:** Dull
**Nodule Presence:** Pervasive (>50% by Visual Inspection)
**Nodule Diameter:** Small (<1 mm)
**Nodule Resistance:** Protruding
**Fracture Presence:** Absent

| # | Feature | SiO2 (wt%) | TiO2 (wt%) | Al2O3 (wt%) | FeOT (wt%) | MgO (wt%) | CaO (wt%) | Na2O (wt%) | K2O (wt%) | Sum of Oxides (wt%) |
|---|---|---|---|---|---|---|---|---|---|---|
| 1 | Nodule | 55.8 | 1.17 | 11.3 | 19.9 | 4.8 | 2.3 | 2.38 | 0.97 | 98.56 |
| 2 | Nodule | 55.3 | 1.12 | 11.4 | 20.6 | 4.7 | 2.4 | 2.61 | 1.2 | 99.3 |
| 3 | Nodule | 55.3 | 1.06 | 10.4 | 19.7 | 4.7 | 2.5 | 2.39 | 1 | 97.16 |
| 4 | Nodule | 53.9 | 1.03 | 10.1 | 21 | 4.8 | 2.3 | 2.43 | 1.05 | 96.61 |
| 5 | Nodule | 53.9 | 1.06 | 10 | 20.7 | 5 | 2 | 2.16 | 0.77 | 95.69 |

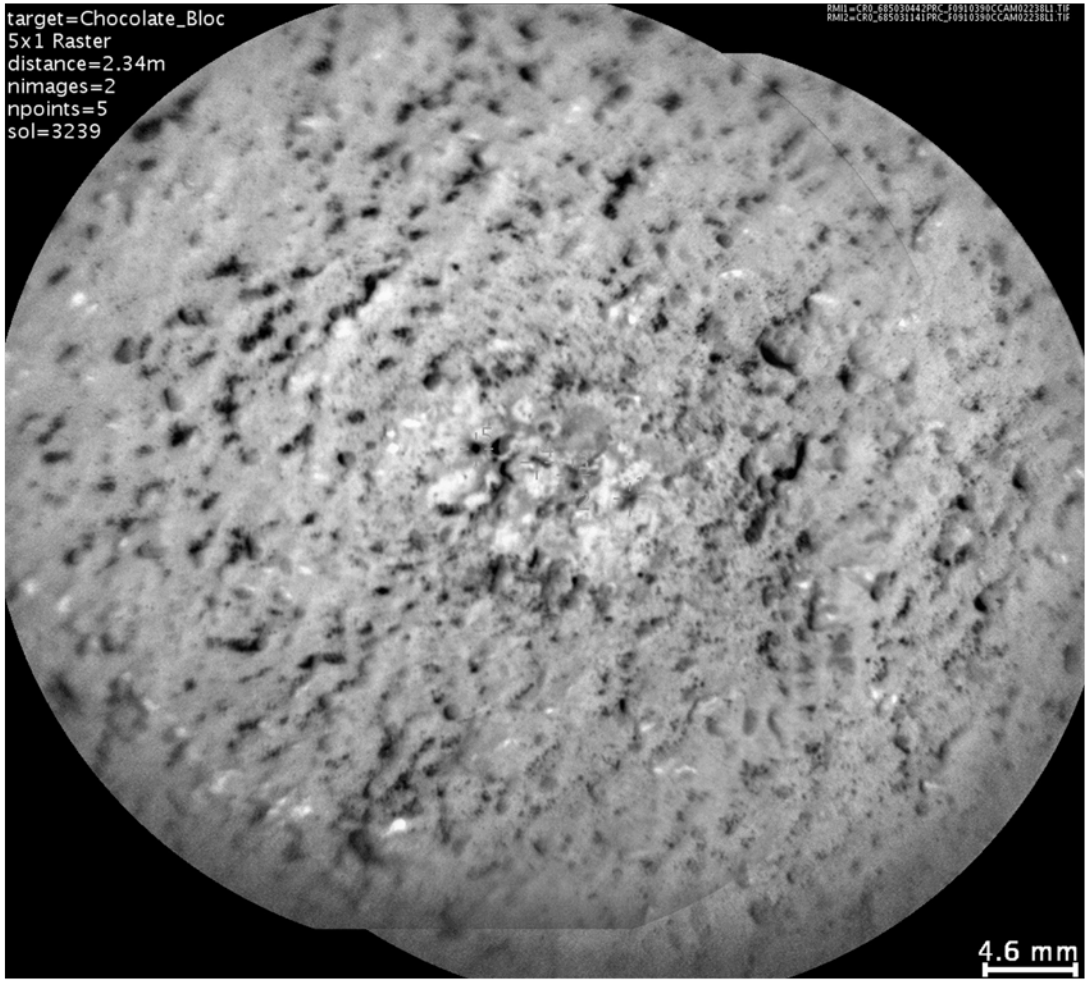


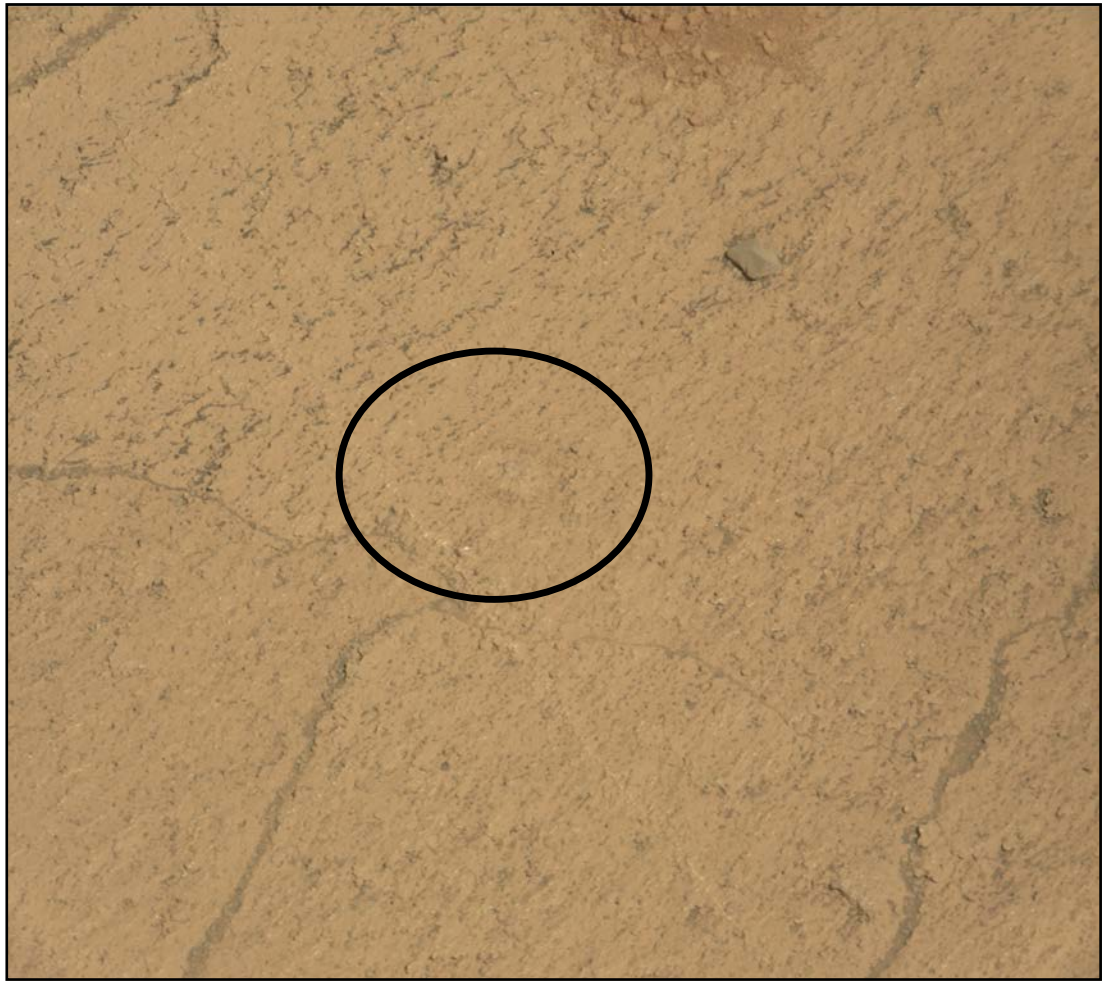
# Target: Chocolate_Bloc

**Sol:** 3235
**Elev (m.):** -4014.92927968261
**CCAM Sequence ID:** CCAM02238

**Whole Target Classification:** Bedrock
**Lamination Strength:** Absent
**Lamination Expression:** Absent
**Grain Visibility:** Below RMI Image Resolution
**Bedrock Appearance:** Dull
**Nodule Presence:** Pervasive (>50% by Visual Inspection)
**Nodule Diameter:** Small (<1 mm)
**Nodule Resistance:** Protruding
**Fracture Presence:** Occasional (<10% by Visual Inspection)

| # | Feature | SiO2 (wt%) | TiO2 (wt%) | Al2O3 (wt%) | FeOT (wt%) | MgO (wt%) | CaO (wt%) | Na2O (wt%) | K2O (wt%) | Sum of Oxides (wt%) |
|---|---|---|---|---|---|---|---|---|---|---|
| 1 | Nodule | 43.5 | 0.9 | 7.3 | 17 | 19.9 | 1.6 | 1.51 | 0.39 | 91.97 |
| 2 | Nodule | 55.2 | 1.1 | 12.1 | 18.9 | 4.7 | 2.4 | 2.64 | 1.18 | 98.27 |
| 3 | Nodule | 47.4 | 0.87 | 9.1 | 16.4 | 3.6 | 11.2 | 1.72 | 0.64 | 90.88 |
| 4 | Nodule | 28.4 | 0.65 | 4.5 | 11.3 | 2.9 | 26.4 | 0.58 | 0.17 | 74.86 |
| 5 | Bedrock | 54.4 | 1.11 | 11.3 | 19.9 | 4.7 | 2.3 | 2.62 | 1.09 | 97.39 |



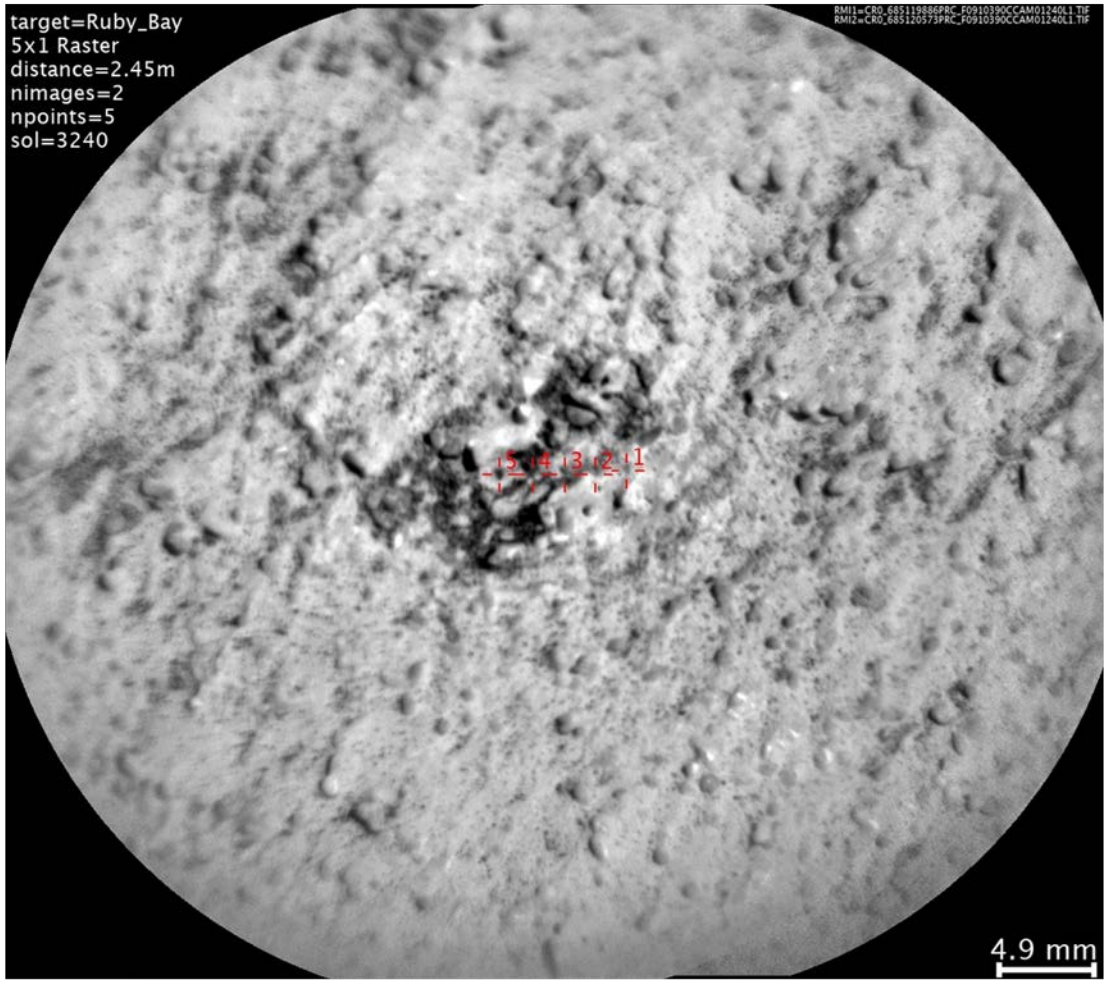



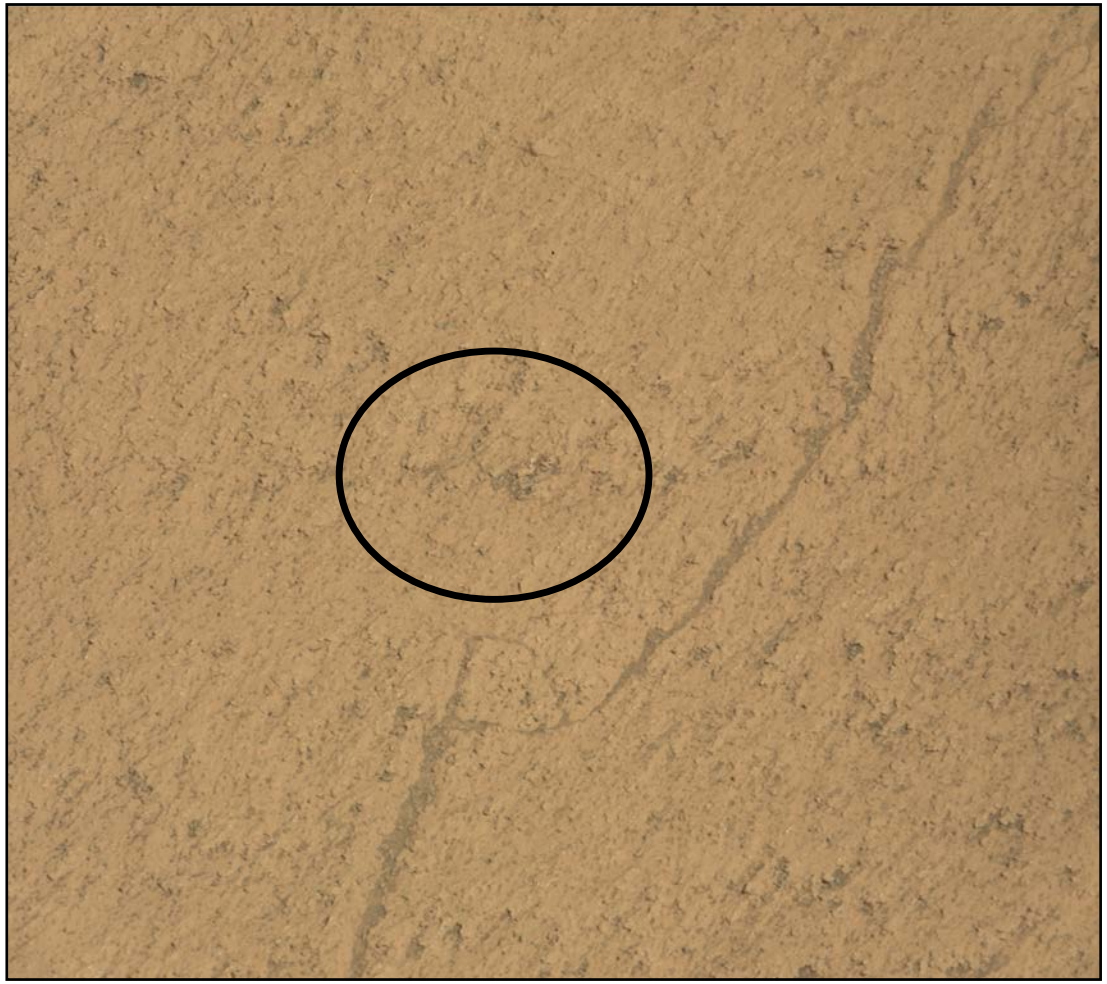
# Target: Ruby_Bay

**Sol:** 3235
**Elev (m.):** -4014.89786186836
**CCAM Sequence ID:** CCAM01240

**Whole Target Classification:** Bedrock
**Lamination Strength:** Absent
**Lamination Expression:** Absent
**Grain Visibility:** Below RMI Image Resolution
**Bedrock Appearance:** Dull
**Nodule Presence:** Pervasive (>50% by Visual Inspection)
**Nodule Diameter:** Small (<1 mm)
**Nodule Resistance:** Protruding
**Fracture Presence:** Occasional (<10% by Visual Inspection)

| # | Feature | SiO2 (wt%) | TiO2 (wt%) | Al2O3 (wt%) | FeOT (wt%) | MgO (wt%) | CaO (wt%) | Na2O (wt%) | K2O (wt%) | Sum of Oxides (wt%) |
|---|---|---|---|---|---|---|---|---|---|---|
| 1 | Nodule | 56.1 | 1.08 | 12.7 | 18.5 | 4.6 | 2.6 | 2.83 | 1.15 | 99.58 |
| 2 | Nodule | 52.9 | 1.05 | 11.7 | 21.4 | 5.3 | 2.1 | 2.69 | 1.15 | 98.21 |
| 3 | Nodule | 54.5 | 1.09 | 12.4 | 19.6 | 4.8 | 2.6 | 2.64 | 1.06 | 98.64 |
| 4 | Nodule | 54.2 | 0.97 | 10.4 | 20.6 | 4.9 | 2.2 | 2.35 | 0.81 | 96.4 |
| 5 | Nodule | 50.5 | 1.02 | 10.6 | 20.6 | 6.5 | 2.1 | 2.5 | 0.72 | 94.54 |



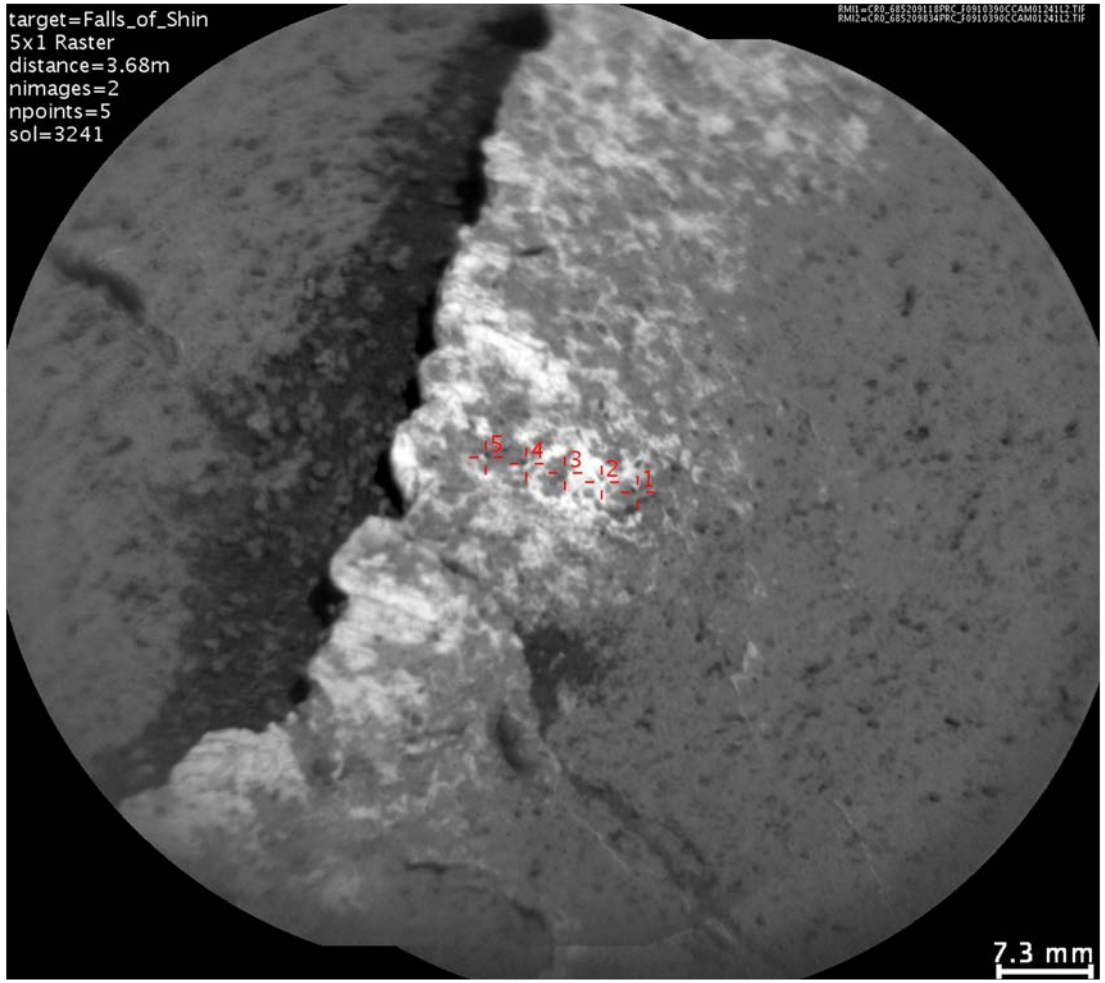



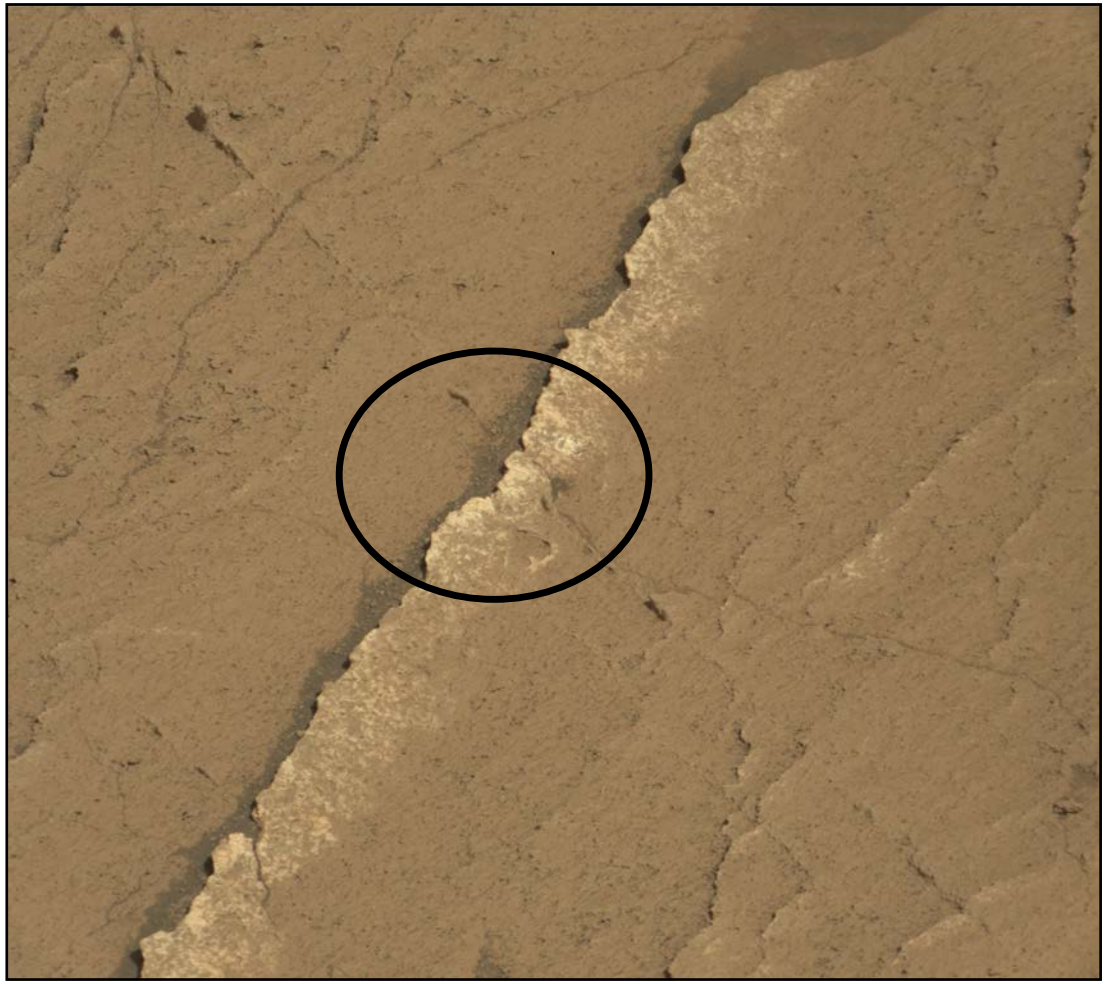
# Target: Falls_of_Shin

**Sol:** 3242
**Elev (m.):** -4014.60759911884
**CCAM Sequence ID:** CCAM01241

**Whole Target Classification:** Bedrock
**Lamination Strength:** Weakly Laminated
**Lamination Expression:** Laminae-Parallel Nodules
**Grain Visibility:** Below RMI Image Resolution
**Bedrock Appearance:** Dull
**Nodule Presence:** Common (~30% by Visual Inspection
**Nodule Diameter:** Small (<1 mm)
**Nodule Resistance:** Protruding
**Fracture Presence:** Common (~10-20% by Visual Inspection)

| # | Feature | SiO2 (wt%) | TiO2 (wt%) | Al2O3 (wt%) | FeOT (wt%) | MgO (wt%) | CaO (wt%) | Na2O (wt%) | K2O (wt%) | Sum of Oxides (wt%) |
|---|---|---|---|---|---|---|---|---|---|---|
| 1 | Vein or Fracture | 33.3 | 0.63 | 7.4 | 14.4 | 2.4 | 20.4 | 1.19 | 0.37 | 80.13 |
| 2 | Vein or Fracture | 11.4 | 0 | 2.8 | 4.5 | 2.8 | 40.5 | 0.42 | 0.05 | 62.47 |
| 3 | Vein or Fracture | 35.3 | 0.64 | 7.3 | 10.8 | 2.7 | 25.4 | 0.96 | 0.32 | 83.37 |
| 4 | Vein or Fracture | 45.6 | 0.76 | 10.6 | 16.4 | 4 | 14.6 | 1.89 | 0.71 | 94.47 |
| 5 | Vein or Fracture | 52.7 | 0.89 | 11.2 | 17.9 | 4.5 | 6.7 | 2.34 | 1.15 | 97.45 |



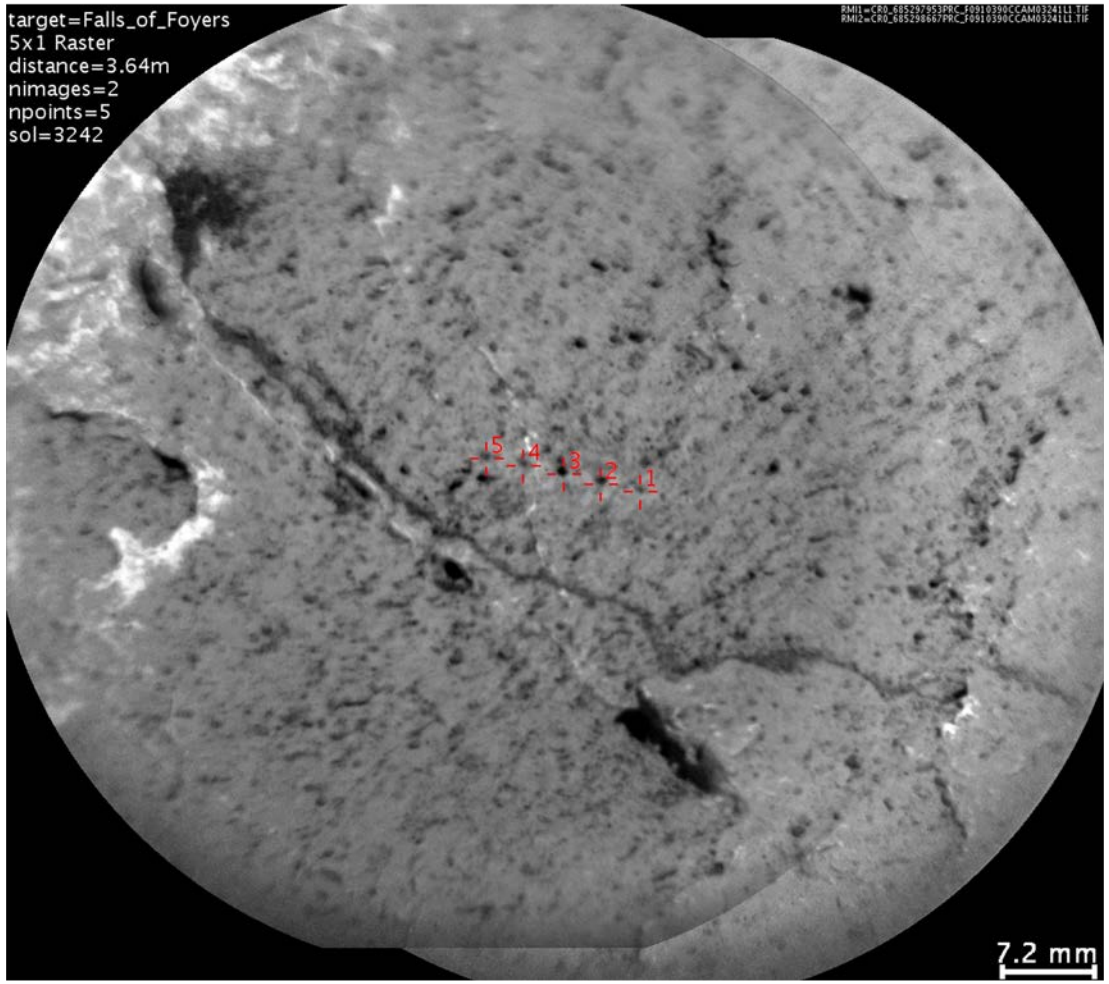



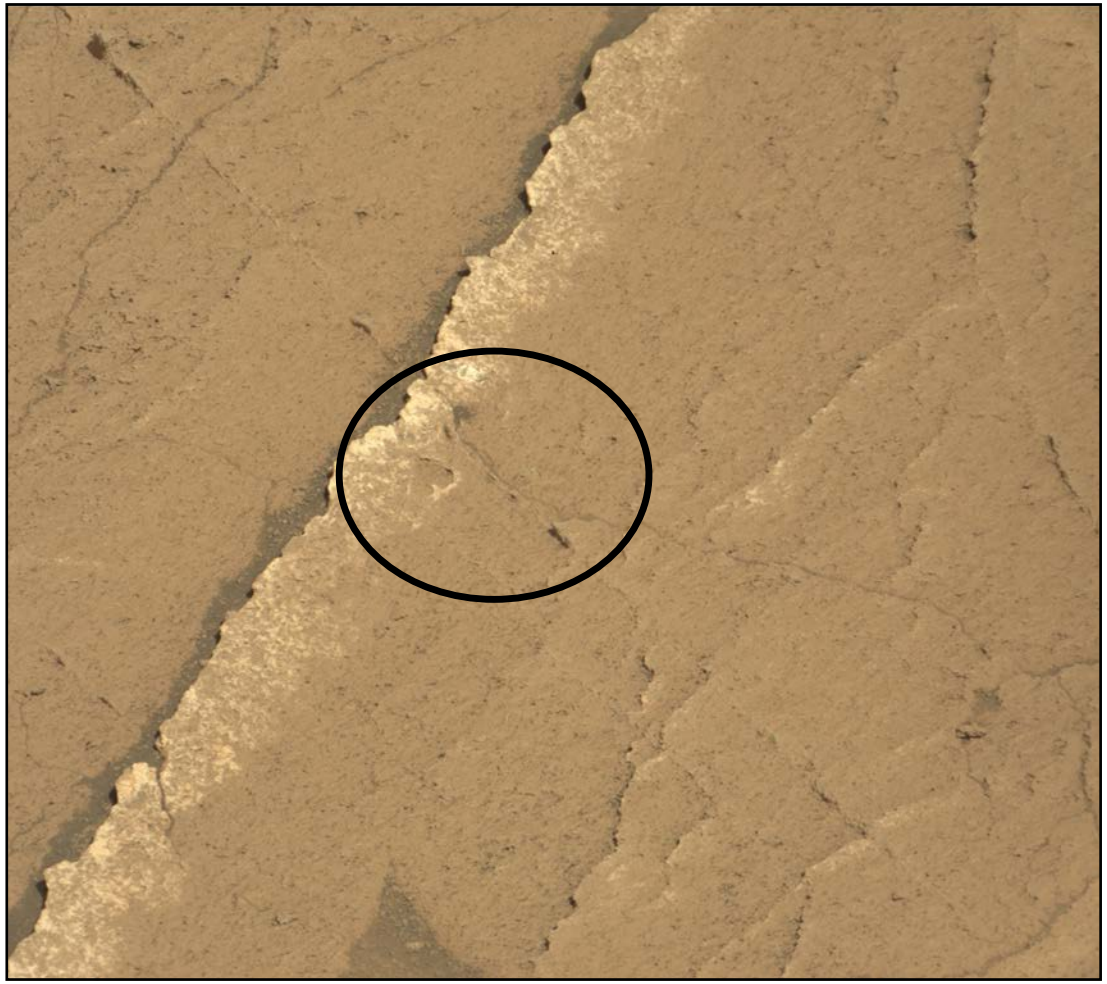
# Target: Falls_of_Foyers

**Sol:** 3242
**Elev (m.):** -4014.62246055612
**CCAM Sequence ID:** CCAM03241

**Whole Target Classification:** Bedrock
**Lamination Strength:** Weakly Laminated
**Lamination Expression:** Laminae-Parallel Nodules
**Grain Visibility:** Below RMI Image Resolution
**Bedrock Appearance:** Dull
**Nodule Presence:** Common (~30% by Visual Inspection
**Nodule Diameter:** Small (<1 mm)
**Nodule Resistance:** Protruding
**Fracture Presence:** Common (~10-20% by Visual Inspection)

| # | Feature | SiO2 (wt%) | TiO2 (wt%) | Al2O3 (wt%) | FeOT (wt%) | MgO (wt%) | CaO (wt%) | Na2O (wt%) | K2O (wt%) | Sum of Oxides (wt%) |
|---|---|---|---|---|---|---|---|---|---|---|
| 1 | Bedrock | 58 | 1 | 15.9 | 17.7 | 4.1 | 2.5 | 3.6 | 1.91 | 104.84 |
| 2 | Bedrock | 53.5 | 1 | 12.4 | 21.3 | 5.8 | 1.8 | 3.12 | 1.61 | 100.6 |
| 3 | Bedrock | 41.7 | 0.68 | 9.4 | 36.4 | 2.1 | 1.1 | 2.42 | 0.74 | 94.52 |
| 4 | Bedrock | 57.9 | 1.03 | 14.6 | 19.6 | 4.2 | 2.4 | 3.41 | 1.76 | 104.88 |
| 5 | Bedrock | 57.5 | 1.01 | 14.3 | 19.1 | 5.4 | 2.2 | 3.02 | 1.4 | 103.95 |



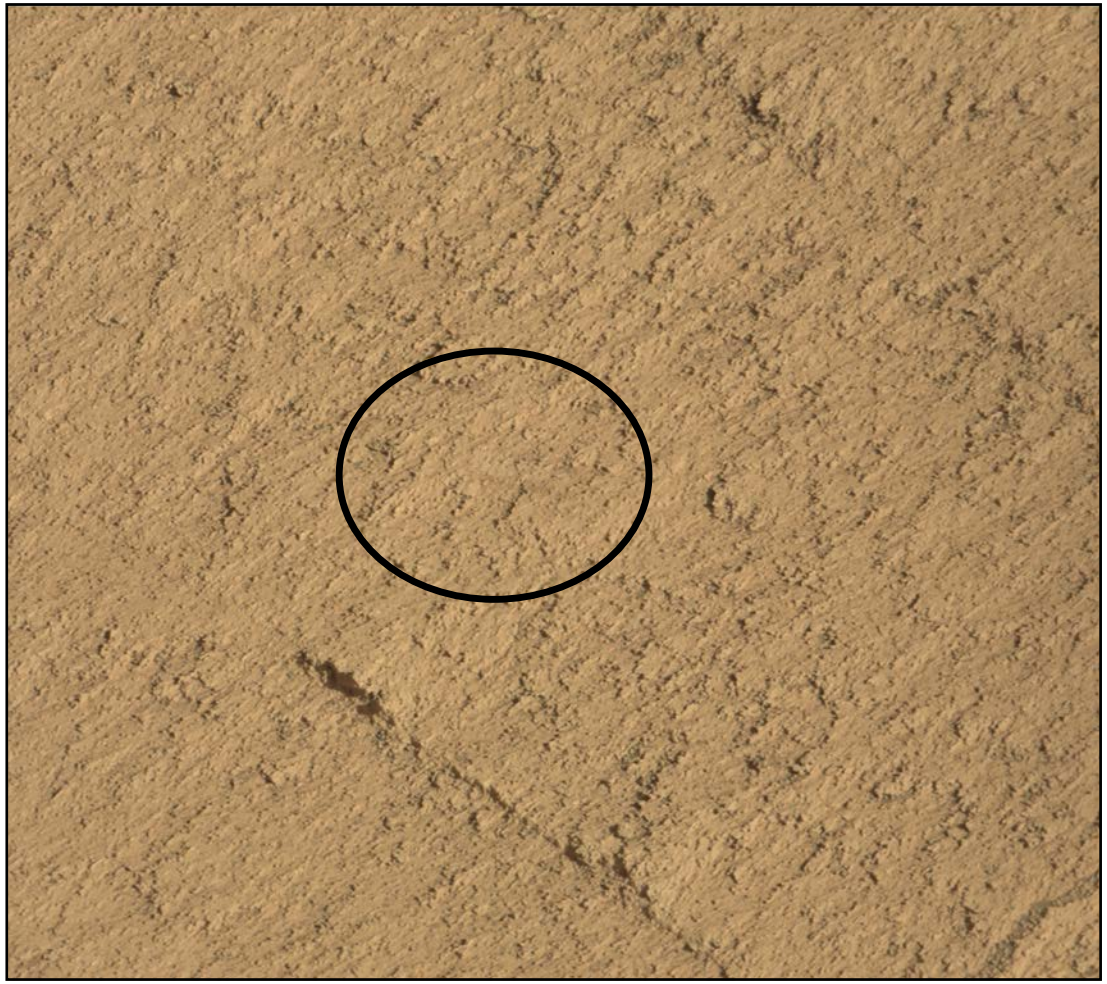



# Target: Scone_Palace

**Sol:** 3244
**Elev (m.):** -4014.854714945
**CCAM Sequence ID:** CCAM02244

**Whole Target Classification:** Bedrock
**Lamination Strength:** Weakly Laminated
**Lamination Expression:** Laminae-Parallel Nodules
**Grain Visibility:** Below RMI Image Resolution
**Bedrock Appearance:** Dull
**Nodule Presence:** Pervasive (>50% by Visual Inspection)
**Nodule Diameter:** Small (<1 mm)
**Nodule Resistance:** Protruding
**Fracture Presence:** Absent

| # | Feature | SiO2 (wt%) | TiO2 (wt%) | Al2O3 (wt%) | FeOT (wt%) | MgO (wt%) | CaO (wt%) | Na2O (wt%) | K2O (wt%) | Sum of Oxides (wt%) |
|---|---|---|---|---|---|---|---|---|---|---|
| 1 | Nodule | 52.8 | 1.04 | 11.5 | 20 | 4.7 | 2.3 | 2.62 | 0.96 | 95.89 |
| 2 | Bedrock | 53.5 | 1.07 | 12 | 20.2 | 5.1 | 2.1 | 2.58 | 0.96 | 97.52 |
| 3 | Bedrock | 53.4 | 1.11 | 11.8 | 19 | 6.6 | 2.2 | 2.56 | 0.91 | 97.54 |
| 4 | Bedrock | 55.9 | 1.04 | 11.7 | 18.9 | 4.7 | 2.2 | 2.54 | 0.97 | 97.99 |
| 5 | Bedrock | 55.8 | 1 | 11.8 | 19.7 | 4.9 | 2.5 | 2.6 | 0.99 | 99.33 |

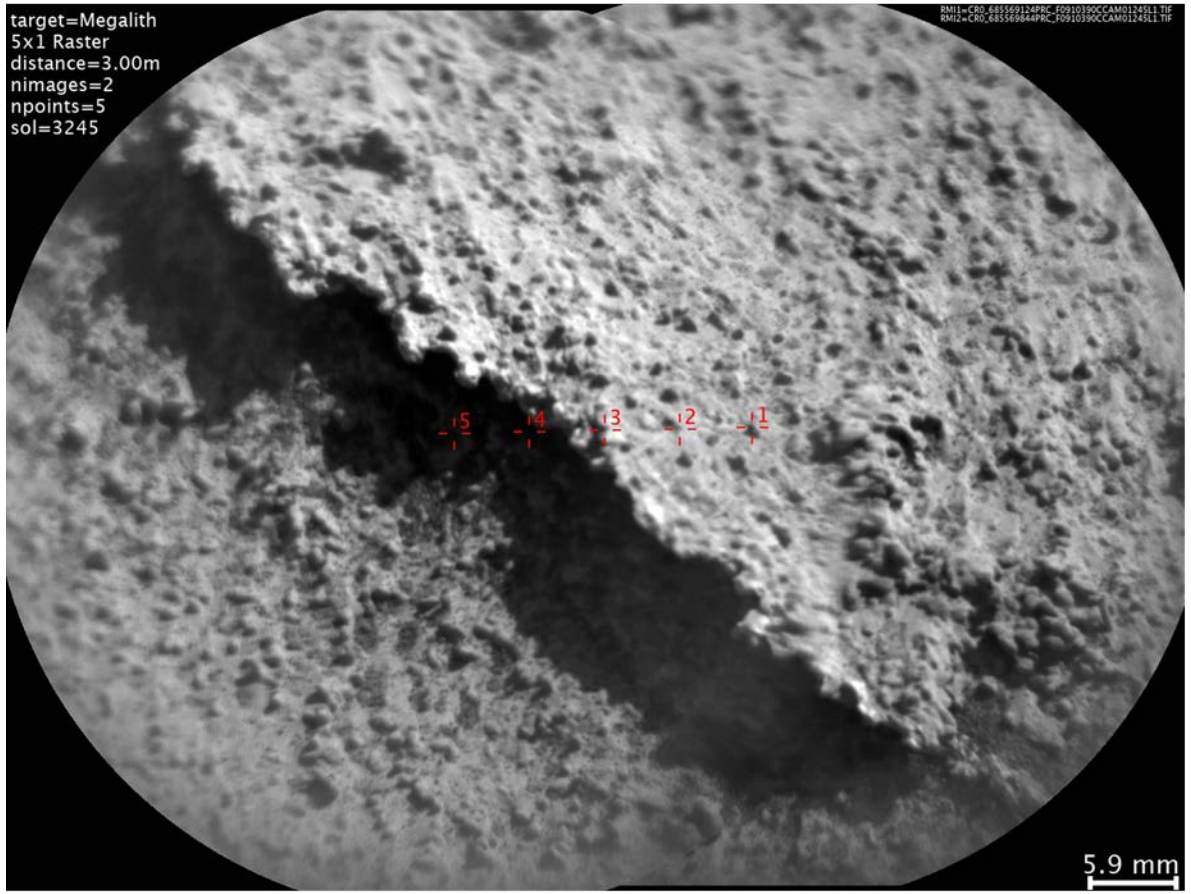


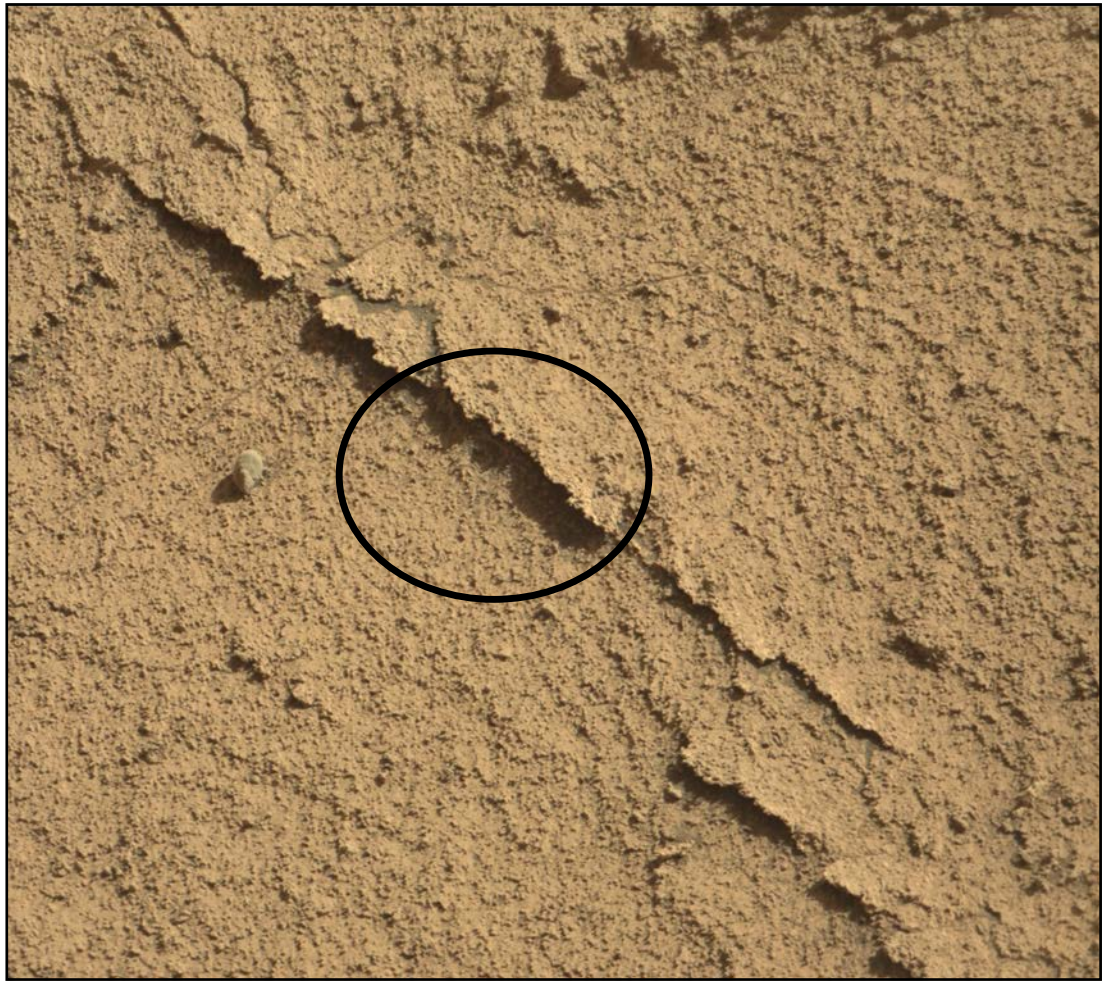
# Target: Megalith

**Sol:** 3245
**Elev (m.):** -4014.73560183022
**CCAM Sequence ID:** CCAM01245

**Whole Target Classification:** Bedrock
**Lamination Strength:** Weakly Laminated
**Lamination Expression:** Laminae-Parallel Nodules
**Grain Visibility:** Below RMI Image Resolution
**Bedrock Appearance:** Dull
**Nodule Presence:** Pervasive (>50% by Visual Inspection)
**Nodule Diameter:** Small (<1 mm)
**Nodule Resistance:** Protruding
**Fracture Presence:** Occasional (<10% by Visual Inspection)

| # | Feature | SiO2 (wt%) | TiO2 (wt%) | Al2O3 (wt%) | FeOT (wt%) | MgO (wt%) | CaO (wt%) | Na2O (wt%) | K2O (wt%) | Sum of Oxides (wt%) |
|---|---|---|---|---|---|---|---|---|---|---|
| 1 | Nodule | 42.3 | 0.72 | 8.8 | 36.3 | 2.7 | 1.2 | 2.09 | 0.54 | 94.68 |
| 2 | Nodule | 56.5 | 1.04 | 12.8 | 19.1 | 5.2 | 2.2 | 2.83 | 1.12 | 100.77 |
| 3 | Vein or Fracture | 32.4 | 0.6 | 5.8 | 14.4 | 5.6 | 21.3 | 0.77 | 0.17 | 81.03 |
| 4 | Nodule | 42.9 | 1.02 | 8.9 | 28.5 | 3.4 | 1.7 | 2.01 | 0.54 | 89.01 |
| 5 | Nodule | 54.7 | 1.1 | 11.9 | 18.9 | 6.3 | 2.4 | 2.3 | 0.72 | 98.34 |



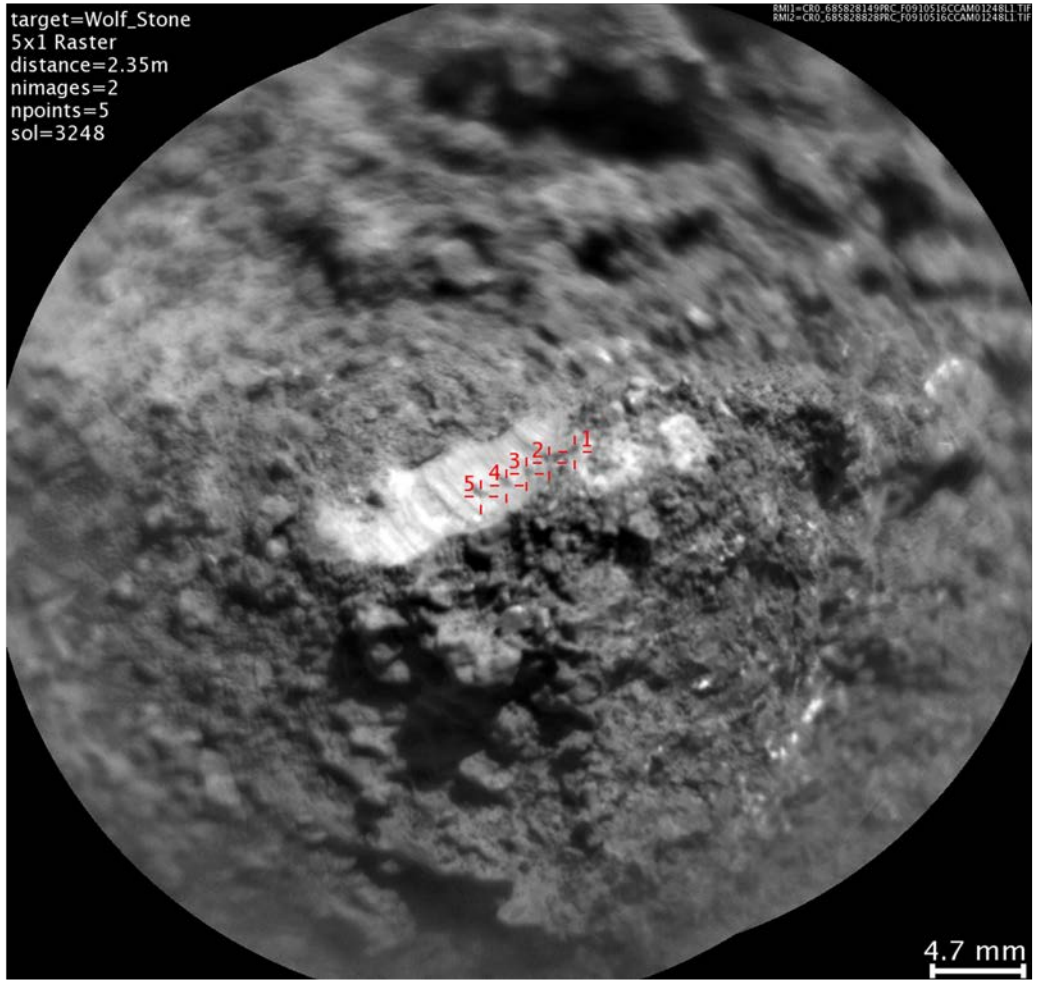



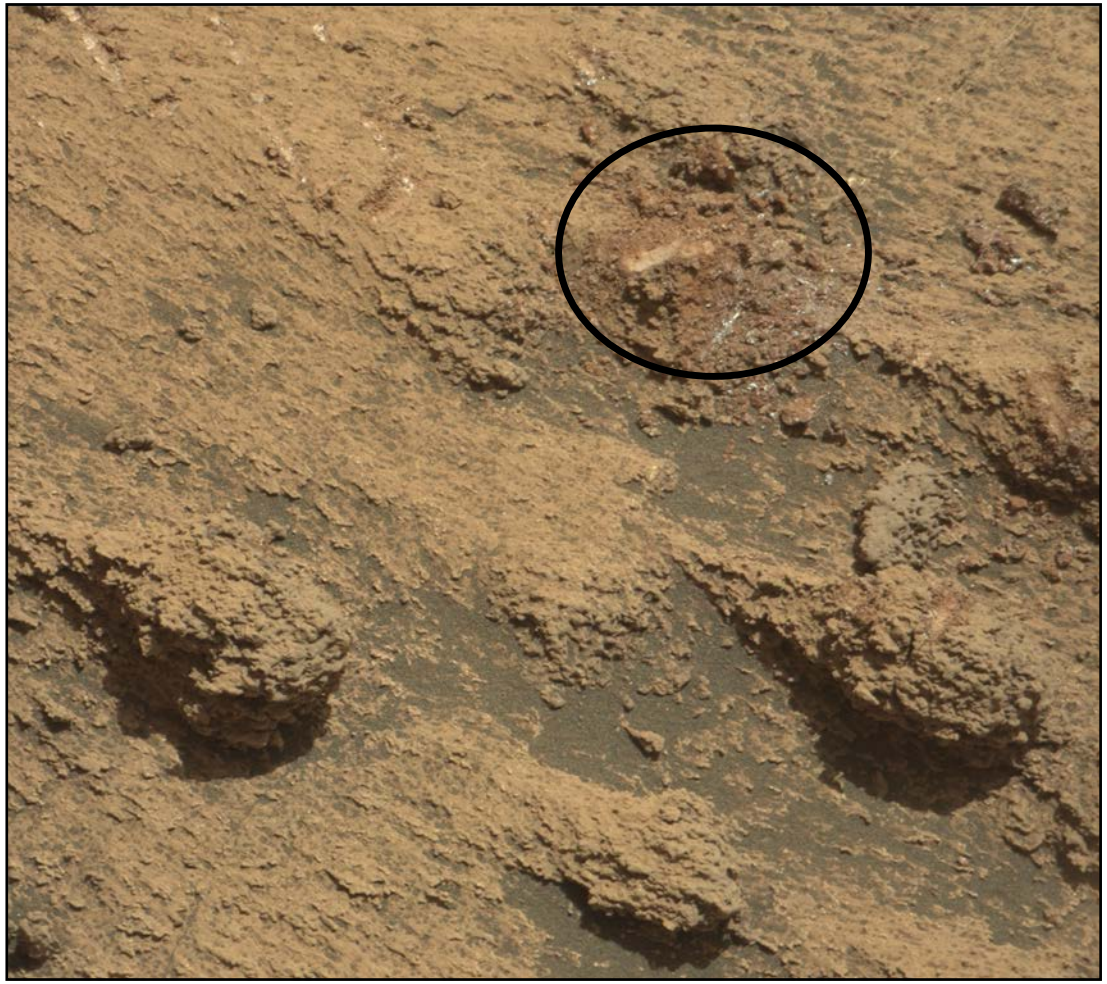
# Target: Wolf_Stone

**Sol:** 3248
**Elev (m.):** -4014.64667543589
**CCAM Sequence ID:** CCAM01248

**Whole Target Classification:** Bedrock
**Lamination Strength:** Absent
**Lamination Expression:** Absent
**Grain Visibility:** Below RMI Image Resolution
**Bedrock Appearance:** Dull
**Nodule Presence:** Pervasive (>50% by Visual Inspection)
**Nodule Diameter:** Small (<1 mm)
**Nodule Resistance:** Protruding
**Fracture Presence:** Absent

| # | Feature | SiO2 (wt%) | TiO2 (wt%) | Al2O3 (wt%) | FeOT (wt%) | MgO (wt%) | CaO (wt%) | Na2O (wt%) | K2O (wt%) | Sum of Oxides (wt%) |
|---|---|---|---|---|---|---|---|---|---|---|
| 1 | Nodule | 41.7 | 0.75 | 7 | 17.5 | 8.5 | 8.4 | 1.37 | 0.4 | 85.76 |
| 2 | Nodule | 37.2 | 0.65 | 6.5 | 15.7 | 25.2 | 1.4 | 1.35 | 0.22 | 88.16 |
| 3 | Nodule | 39.8 | 0.76 | 6.8 | 18.5 | 15.7 | 5.3 | 1.27 | 0.21 | 88.36 |
| 4 | Nodule | 42.1 | 0.73 | 7.8 | 16.5 | 19.1 | 3 | 1.43 | 0.29 | 90.96 |
| 5 | Nodule | 39.9 | 0.69 | 6.3 | 16.3 | 11.1 | 10.5 | 1.02 | 0.19 | 86.09 |



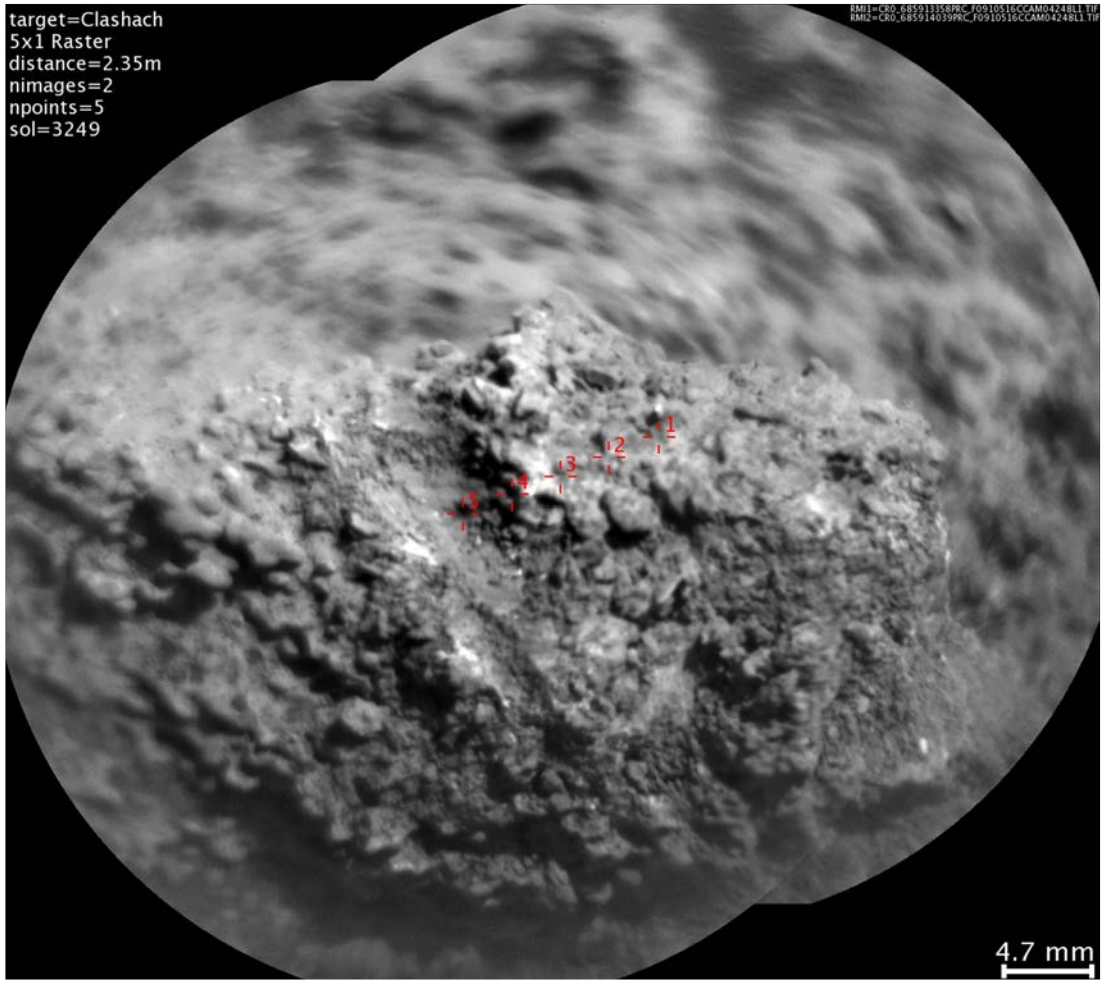



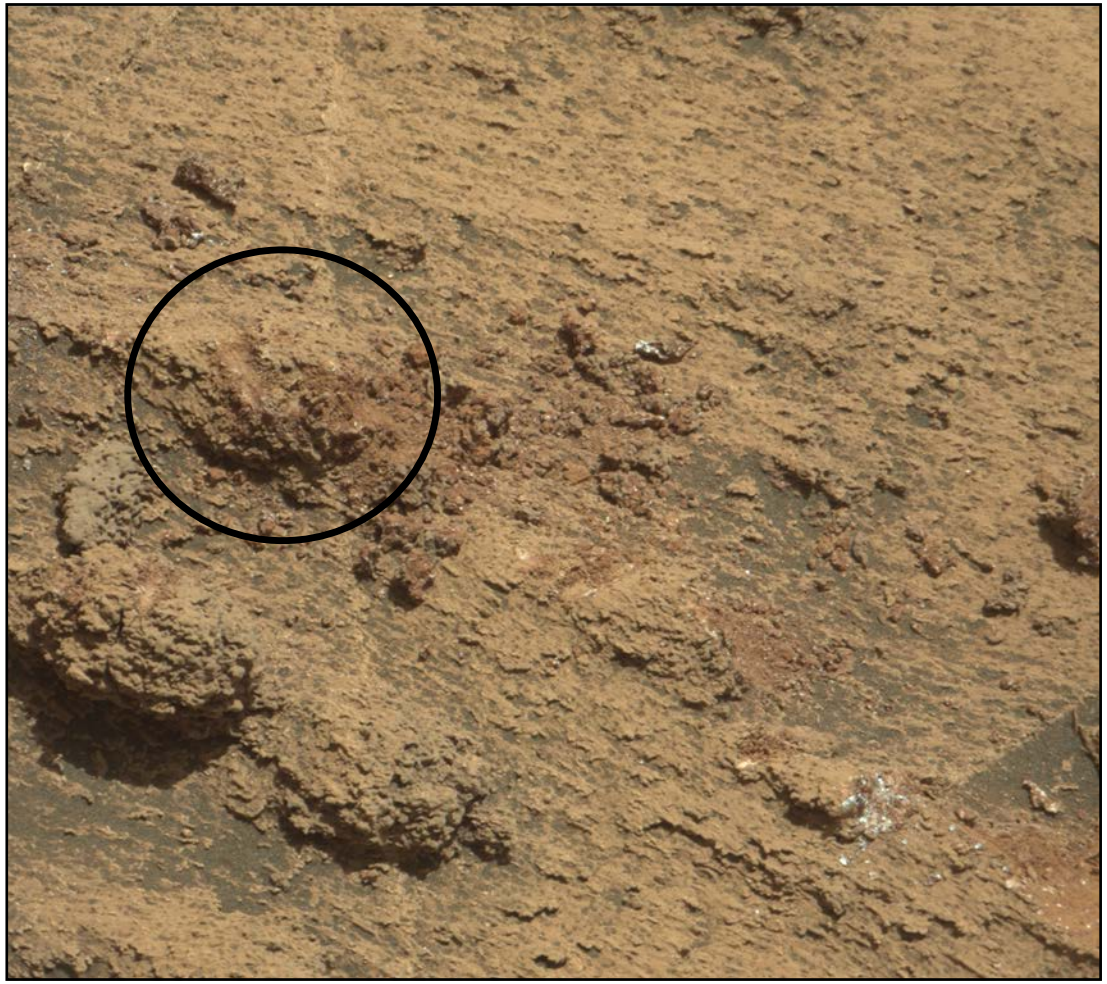
# Target: Clashach

**Sol:** 3248
**Elev (m.):** -4014.66867661153
**CCAM Sequence ID:** CCAM04248

**Whole Target Classification:** Bedrock
**Lamination Strength:** Absent
**Lamination Expression:** Absent
**Grain Visibility:** Below RMI Image Resolution
**Bedrock Appearance:** Dull
**Nodule Presence:** Pervasive (>50% by Visual Inspection)
**Nodule Diameter:** Small (<1 mm)
**Nodule Resistance:** Protruding
**Fracture Presence:** Absent

| # | Feature | SiO2 (wt%) | TiO2 (wt%) | Al2O3 (wt%) | FeOT (wt%) | MgO (wt%) | CaO (wt%) | Na2O (wt%) | K2O (wt%) | Sum of Oxides (wt%) |
|---|---|---|---|---|---|---|---|---|---|---|
| 1 | Nodule | 53.4 | 0.79 | 11.5 | 13.2 | 5 | 1.3 | 10.27 | 0.34 | 95.85 |
| 2 | Nodule | 32.4 | 0.67 | 5.3 | 12.8 | 4 | 21.2 | 1.23 | 0.2 | 77.75 |
| 3 | Nodule | 41.2 | 0.78 | 6.7 | 15.9 | 3.4 | 12.8 | 1.36 | 0.46 | 82.63 |
| 4 | Nodule | 25.9 | 0.55 | 5 | 10.2 | 2.2 | 24.1 | 0.52 | 0.11 | 68.49 |
| 5 | Nodule | 52.3 | 0.99 | 11.2 | 21.7 | 5.1 | 2.4 | 2.59 | 0.97 | 97.35 |



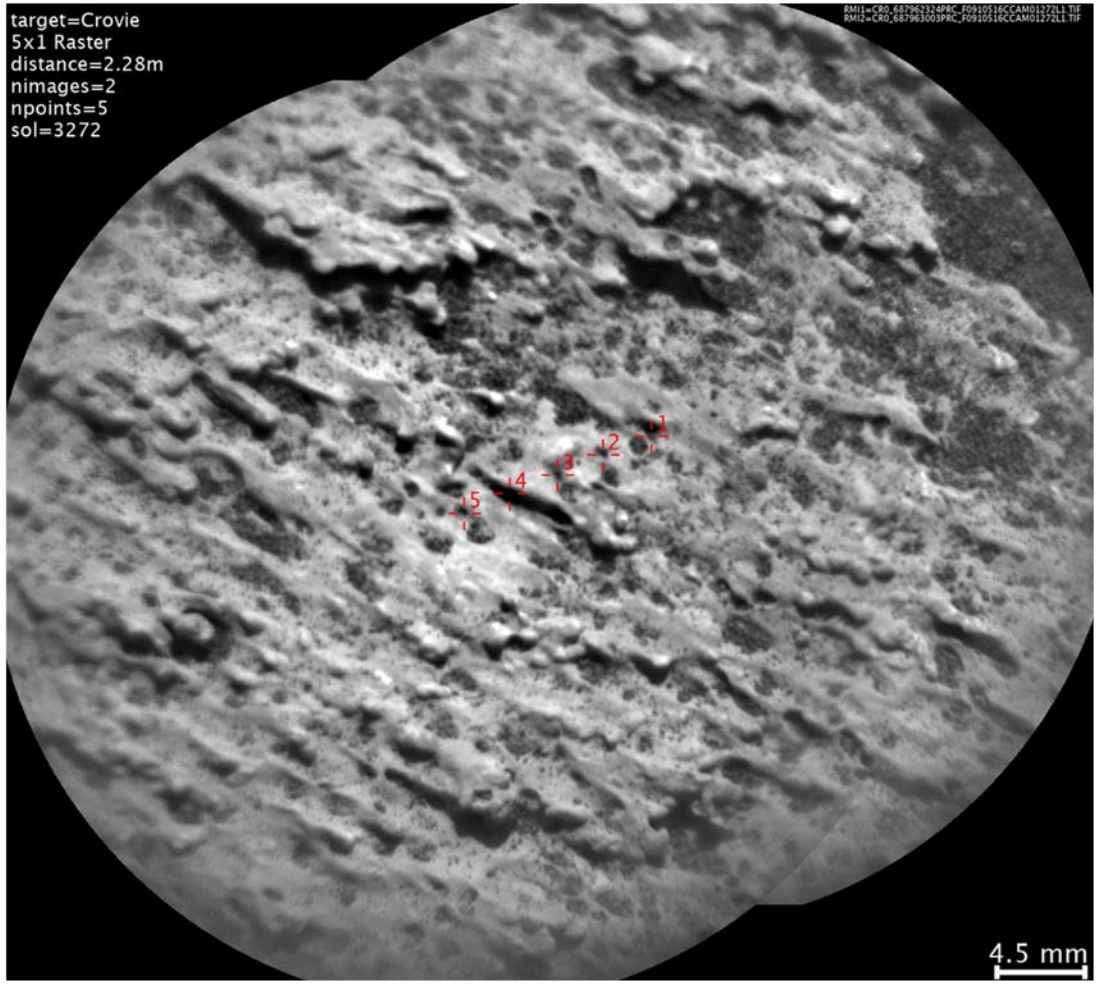



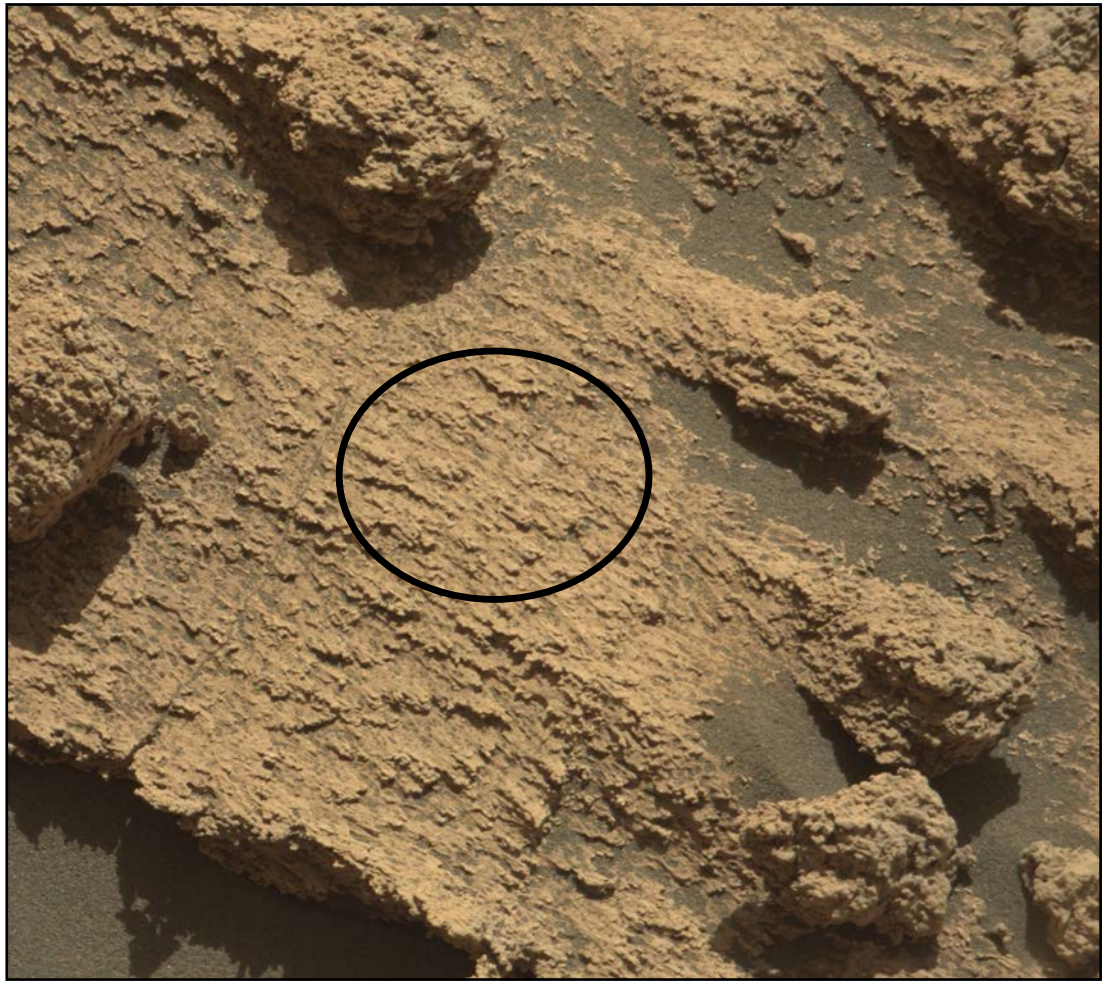
# Target: Crovie

**Sol:** 3272
**Elev (m.):** -4014.66312212364
**CCAM Sequence ID:** CCAM01272

**Whole Target Classification:** Bedrock
**Lamination Strength:** Absent
**Lamination Expression:** Absent
**Grain Visibility:** Below RMI Image Resolution
**Bedrock Appearance:** Dull
**Nodule Presence:** Pervasive (>50% by Visual Inspection)
**Nodule Diameter:** Small (<1 mm)
**Nodule Resistance:** Protruding
**Fracture Presence:** Absent

| # | Feature | SiO2 (wt%) | TiO2 (wt%) | Al2O3 (wt%) | FeOT (wt%) | MgO (wt%) | CaO (wt%) | Na2O (wt%) | K2O (wt%) | Sum of Oxides (wt%) |
|---|---|---|---|---|---|---|---|---|---|---|
| 1 | Nodule | 56.2 | 1.08 | 11.2 | 19.1 | 4.5 | 2.3 | 2.48 | 0.99 | 97.81 |
| 2 | Nodule | 46.8 | 0.88 | 9.8 | 21.8 | 3.2 | 1.9 | 2.33 | 0.67 | 87.29 |
| 3 | Nodule | 54.3 | 1.12 | 12 | 20.4 | 4.2 | 2.6 | 2.67 | 1.05 | 98.38 |
| 4 | Nodule | 47.5 | 0.8 | 8.8 | 20 | 3.5 | 1.7 | 2.51 | 1.05 | 85.74 |
| 5 | Nodule | 54.2 | 1.1 | 11.7 | 21.2 | 4.3 | 2.5 | 2.58 | 1.12 | 98.61 |



# Target: Helmsdale_Boulder_Beds_ccam2

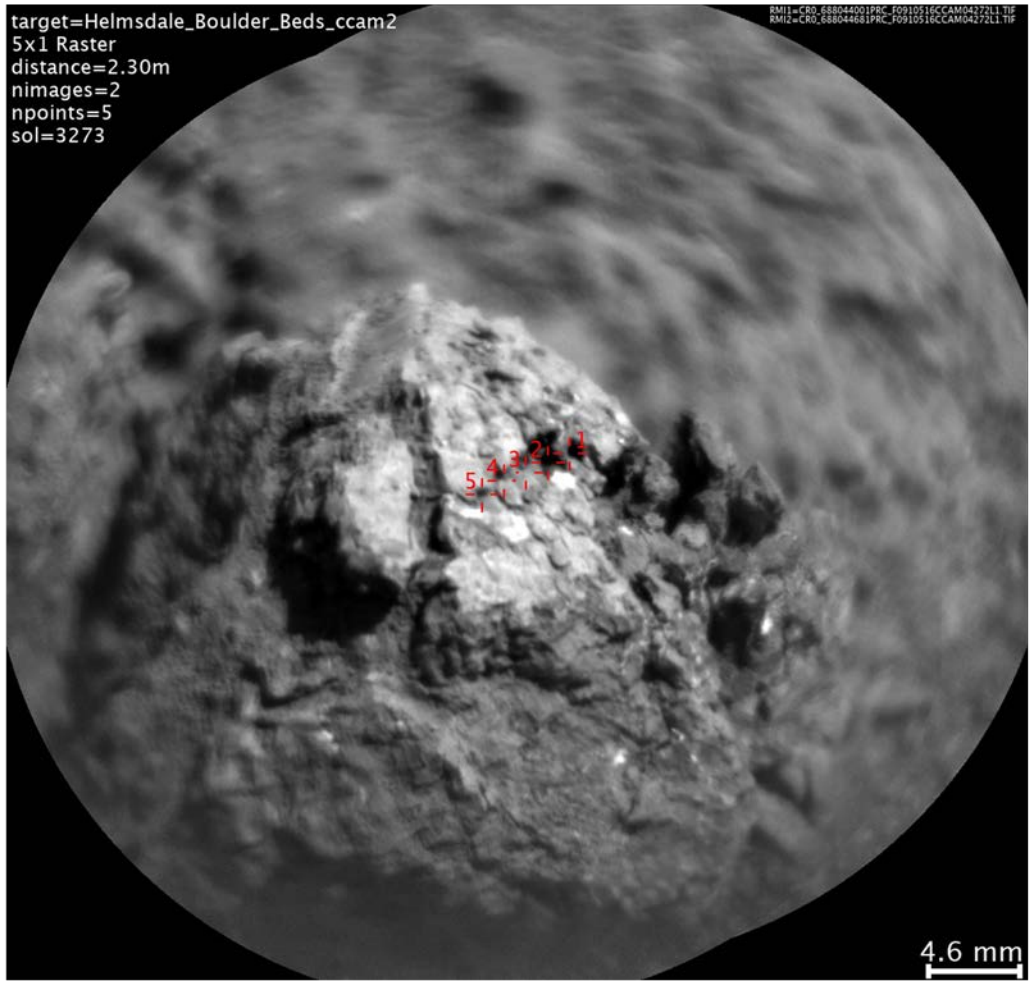
**Sol:** 3273

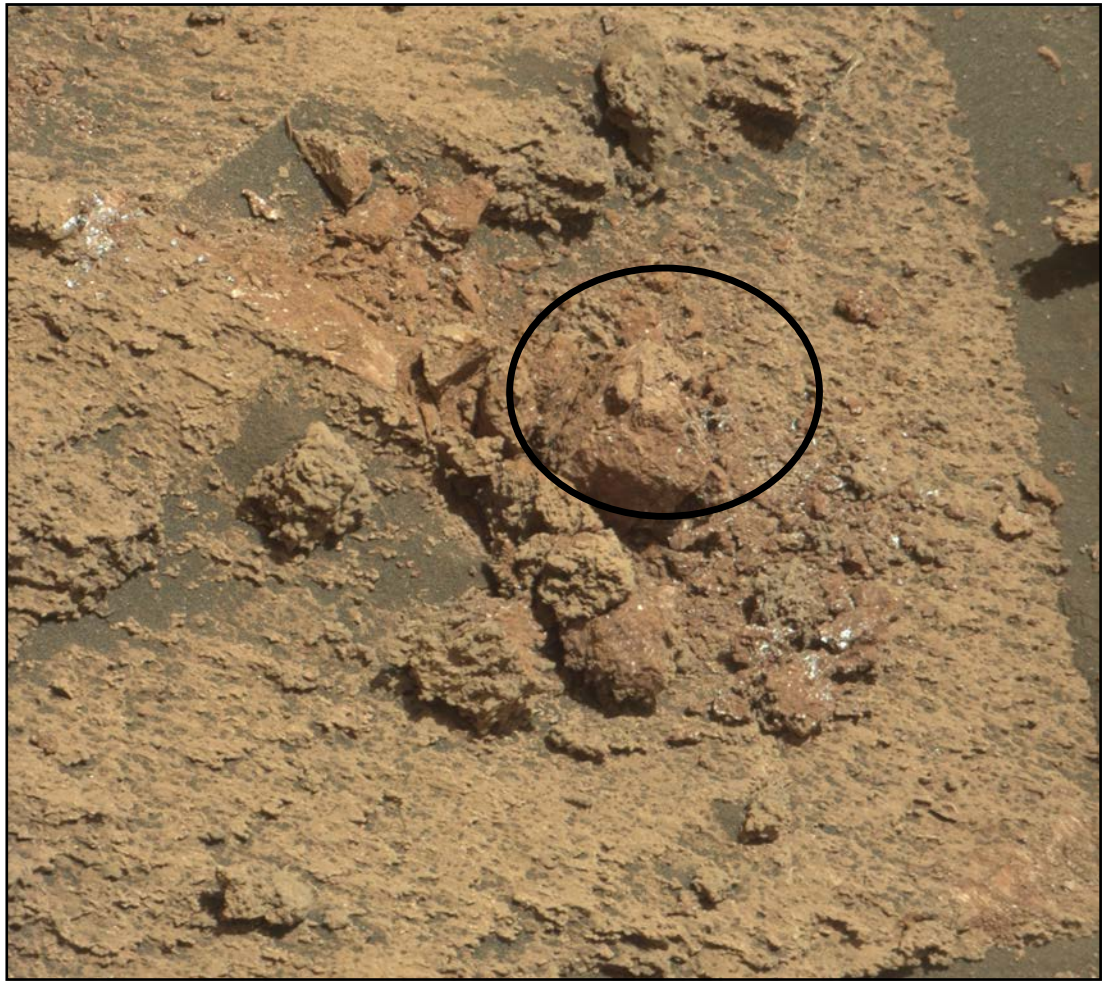
**Elev (m.):** -4014.74748226871

**CCAM Sequence ID:** CCAM04272

**Whole Target Classification:** Bedrock
**Lamination Strength:** Absent
**Lamination Expression:** Absent
**Grain Visibility:** Below RMI Image Resolution
**Bedrock Appearance:** Dull
**Nodule Presence:** Pervasive (>50% by Visual Inspection)
**Nodule Diameter:** Small (<1 mm)
**Nodule Resistance:** Protruding
**Fracture Presence:** Absent

| # | Feature | SiO2 (wt%) | TiO2 (wt%) | Al2O3 (wt%) | FeOT (wt%) | MgO (wt%) | CaO (wt%) | Na2O (wt%) | K2O (wt%) | Sum of Oxides (wt%) |
|---|---|---|---|---|---|---|---|---|---|---|
| 1 | Nodule | 52.9 | 0.96 | 10.4 | 19.3 | 5.3 | 2.2 | 2.42 | 0.6 | 94.08 |
| 2 | Nodule | 47.9 | 0.81 | 9.9 | 20.4 | 9.1 | 1.7 | 2.2 | 0.56 | 92.57 |
| 3 | Nodule | 45.7 | 0.86 | 8.9 | 17.7 | 13.2 | 1.7 | 1.78 | 0.51 | 90.35 |
| 4 | Nodule | 44.7 | 0.85 | 8.8 | 20.1 | 11.2 | 1.4 | 1.92 | 0.54 | 89.46 |
| 5 | Nodule | 43.6 | 0.82 | 8.9 | 23.5 | 4.2 | 4.5 | 1.82 | 0.46 | 87.82 |



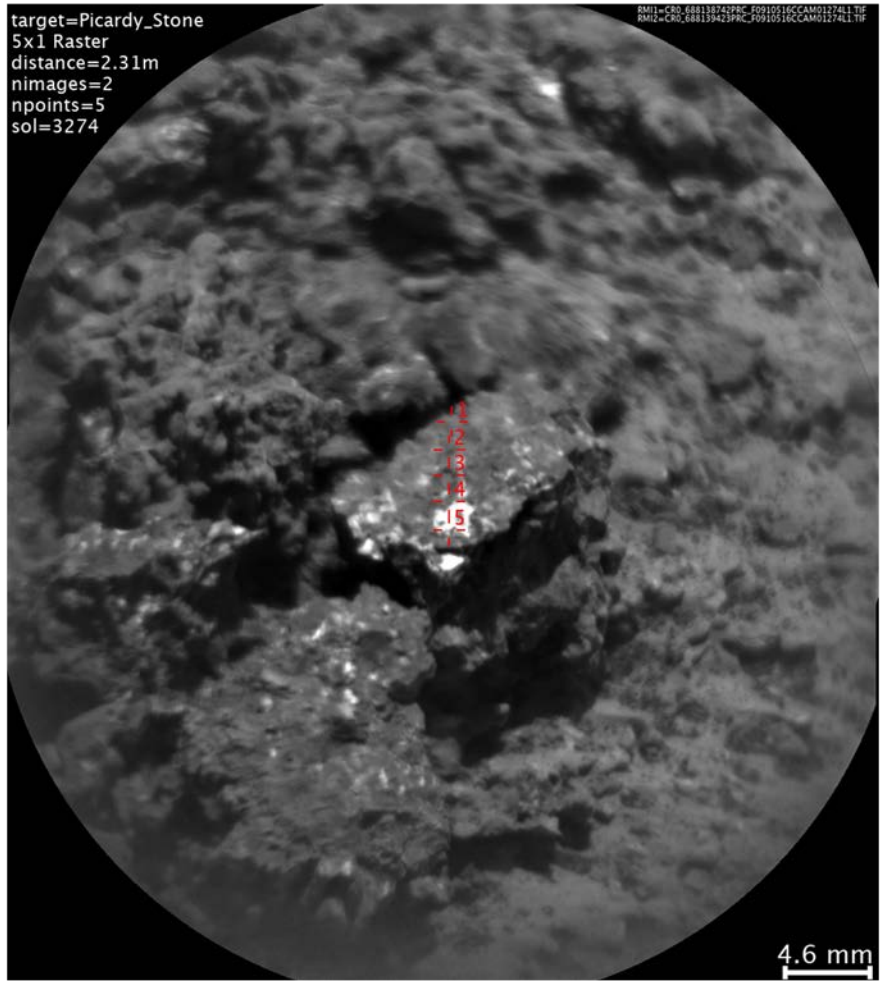



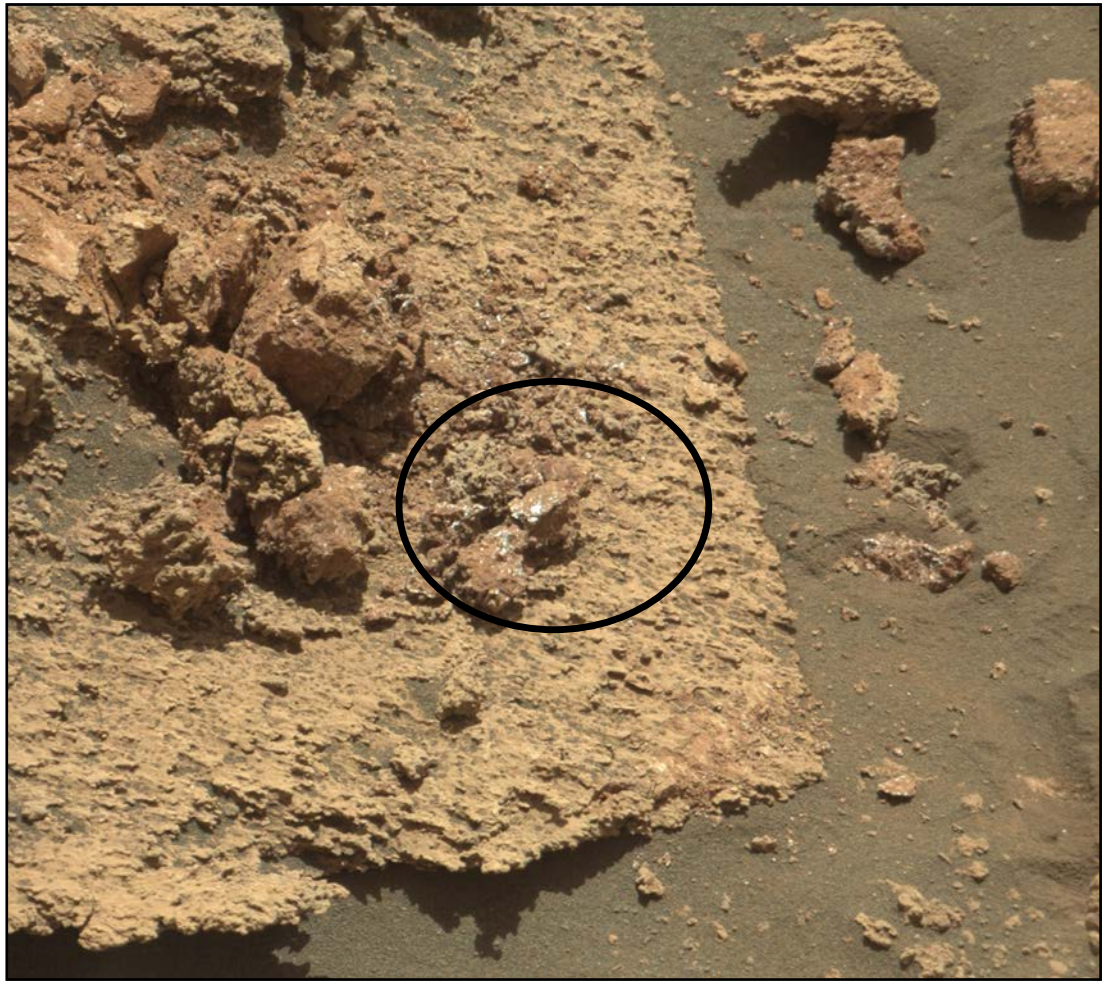
# Target: Picardy_Stone

**Sol:** 3274
**Elev (m.):** -4014.78095894565
**CCAM Sequence ID:** CCAM01274

**Whole Target Classification:** Bedrock
**Lamination Strength:** Absent
**Lamination Expression:** Absent
**Grain Visibility:** Below RMI Image Resolution
**Bedrock Appearance:** Dull
**Nodule Presence:** Pervasive (>50% by Visual Inspection)
**Nodule Diameter:** Small (<1 mm)
**Nodule Resistance:** Protruding
**Fracture Presence:** Absent

| # | Feature | SiO2 (wt%) | TiO2 (wt%) | Al2O3 (wt%) | FeOT (wt%) | MgO (wt%) | CaO (wt%) | Na2O (wt%) | K2O (wt%) | Sum of Oxides (wt%) |
|---|---|---|---|---|---|---|---|---|---|---|
| 1 | Nodule | 43.8 | 0.71 | 7.2 | 14.8 | 21.1 | 1.4 | 1.38 | 0.35 | 90.74 |
| 2 | Nodule | 40.7 | 0.76 | 7.2 | 18.8 | 16.6 | 1.4 | 1.56 | 0.3 | 87.31 |
| 3 | Nodule | 30.7 | 0.64 | 5.2 | 14.6 | 4.9 | 17.7 | 0.88 | 0.19 | 74.94 |
| 4 | Nodule | 18.9 | 0.64 | 3.5 | 43.5 | 4 | 12 | 0.75 | 0.04 | 83.3 |
| 5 | Nodule | 4.9 | 0.48 | 3.3 | 45.7 | 1.2 | 26.8 | 0.35 | 0 | 82.69 |



# Target: aegis_post_3275a

**Sol:** 3275
**Elev (m.):** -4010.67632800078
**CCAM Sequence ID:** CCAM15905

**Whole Target Classification:** Bedrock
**Lamination Strength:** Absent
**Lamination Expression:** Absent
**Grain Visibility:** Below RMI Image Resolution
**Bedrock Appearance:** Dull
**Nodule Presence:** Common (~30% by Visual Inspection
**Nodule Diameter:** Small (<1 mm)
**Nodule Resistance:** Protruding
**Fracture Presence:** Occasional (<10% by Visual Inspection)

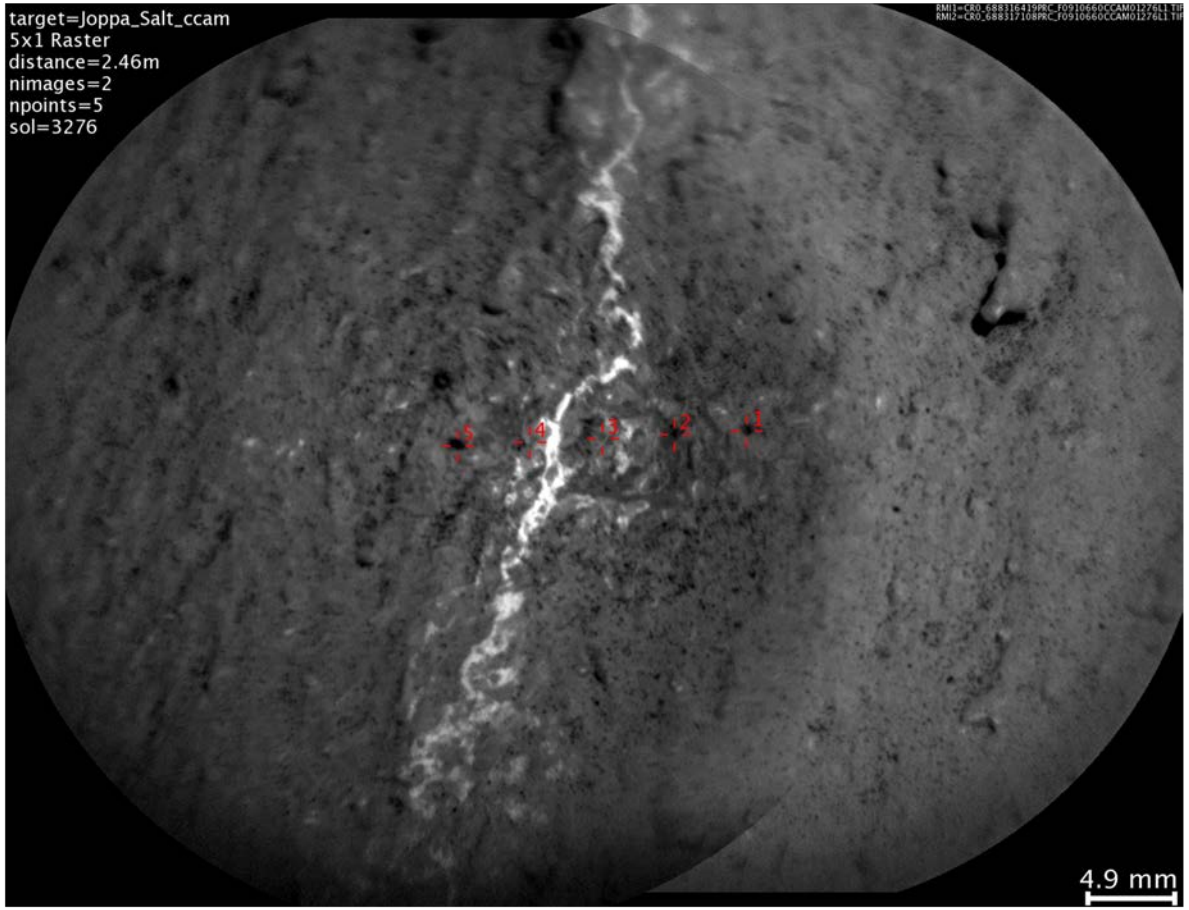
| # | Feature | SiO2 (wt%) | TiO2 (wt%) | Al2O3 (wt%) | FeOT (wt%) | MgO (wt%) | CaO (wt%) | Na2O (wt%) | K2O (wt%) | Sum of Oxides (wt%) |
|---|---|---|---|---|---|---|---|---|---|---|
| 1 | Nodule | 48.6 | 0.89 | 11.1 | 20.3 | 3.6 | 1.8 | 2.47 | 0.75 | 89.53 |
| 2 | Nodule | 35.6 | 0.61 | 6.3 | 11.6 | 2.3 | 20.8 | 0.99 | 0.31 | 78.6 |
| 3 | Nodule | 54.5 | 1.08 | 11.8 | 19.9 | 5.6 | 2.2 | 2.61 | 0.9 | 98.54 |
| 4 | Nodule | 27.5 | 0.6 | 5 | 10.8 | 2 | 23.8 | 0.62 | 0.13 | 70.41 |
| 5 | Nodule | 49.6 | 0.68 | 9 | 14.4 | 3.6 | 2.5 | 10.78 | 0.37 | 90.97 |

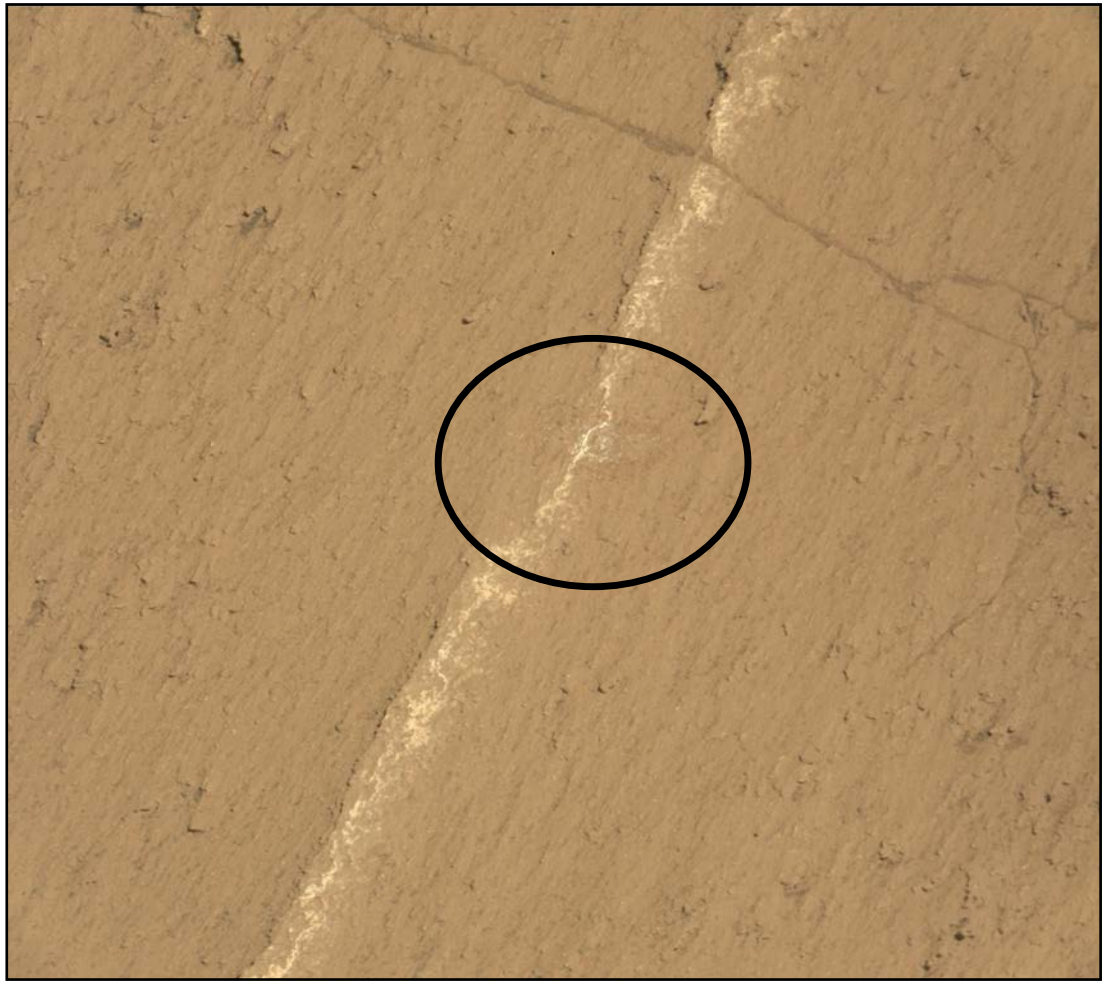
# Target: Joppa_Salt_ccam

**Sol:** 3276
**Elev (m.):** -4010.67632800078
**CCAM Sequence ID:** CCAM01276

**Whole Target Classification:** Bedrock
**Lamination Strength:** Absent
**Lamination Expression:** Absent
**Grain Visibility:** Below RMI Image Resolution
**Bedrock Appearance:** Dull
**Nodule Presence:** Common (~30% by Visual Inspection
**Nodule Diameter:** Small (<1 mm)
**Nodule Resistance:** Protruding
**Fracture Presence:** Occasional (<10% by Visual Inspection)

| # | Feature | SiO2 (wt%) | TiO2 (wt%) | Al2O3 (wt%) | FeOT (wt%) | MgO (wt%) | CaO (wt%) | Na2O (wt%) | K2O (wt%) | Sum of Oxides (wt%) |
|---|---|---|---|---|---|---|---|---|---|---|
| 1 | Bedrock | 55.7 | 1.06 | 12.4 | 18.9 | 4.7 | 2.2 | 2.75 | 1.21 | 98.86 |
| 2 | Bedrock | 53.4 | 1.04 | 11.9 | 20.9 | 4.2 | 2.4 | 2.72 | 1 | 97.47 |
| 3 | Vein or Fracture | 26.3 | 0.59 | 4.8 | 10.2 | 2.5 | 25.6 | 0.62 | 0.19 | 70.8 |
| 4 | Vein or Fracture | 25.2 | 0.57 | 4.7 | 9.2 | 2.5 | 26.2 | 0.65 | 0.19 | 69.21 |
| 5 | Bedrock | 52.3 | 0.97 | 10.9 | 20.9 | 4.7 | 2 | 2.66 | 1.02 | 95.42 |



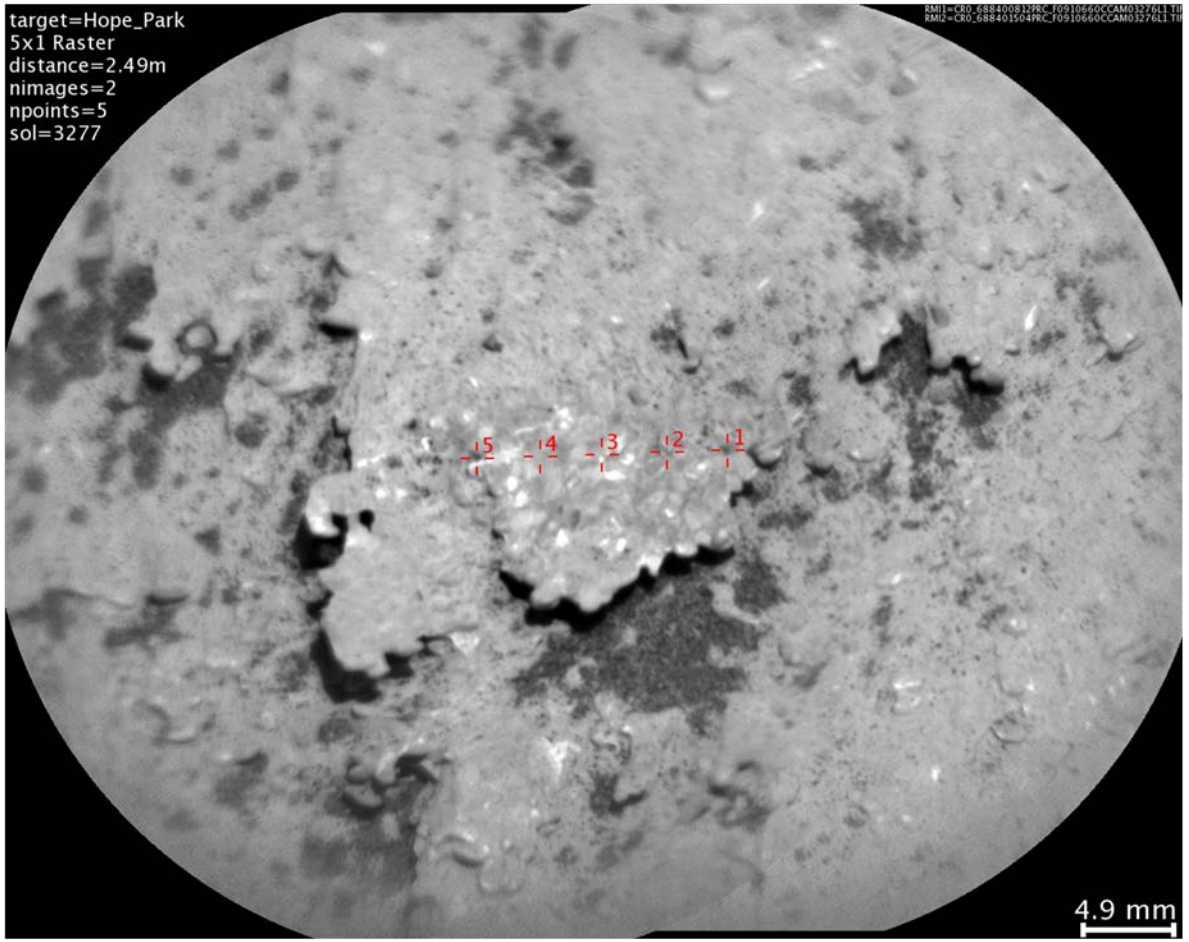



# Target: Hope_Park

**Sol:** 3277
**Elev (m.):** -4010.68260574037
**CCAM Sequence ID:** CCAM03276

**Whole Target Classification:** Bedrock
**Lamination Strength:** Weakly Laminated
**Lamination Expression:** Laminae-Parallel Nodules
**Grain Visibility:** Below RMI Image Resolution
**Bedrock Appearance:** Dull
**Nodule Presence:** Pervasive (>50% by Visual Inspection)
**Nodule Diameter:** Small (<1 mm)
**Nodule Resistance:** Protruding
**Fracture Presence:** Absent

| # | Feature | SiO2 (wt%) | TiO2 (wt%) | Al2O3 (wt%) | FeOT (wt%) | MgO (wt%) | CaO (wt%) | Na2O (wt%) | K2O (wt%) | Sum of Oxides (wt%) |
|---|---|---|---|---|---|---|---|---|---|---|
| 1 | Nodule | 44.9 | 0.83 | 8.9 | 26.5 | 3.2 | 2.4 | 2.22 | 0.63 | 89.57 |
| 2 | Nodule | 24.7 | 0.61 | 4.1 | 11.4 | 3.1 | 25.7 | 0.44 | 0.11 | 70.24 |
| 3 | Nodule | 29.4 | 0.56 | 4.9 | 8.9 | 2.7 | 25.4 | 0.65 | 0.17 | 72.53 |
| 4 | Nodule | 25 | 0.6 | 4.8 | 11.3 | 2.4 | 26.5 | 0.52 | 0.12 | 71.31 |
| 5 | Nodule | 54.7 | 1.12 | 11.7 | 19.5 | 6 | 2.3 | 2.77 | 1.22 | 99.31 |

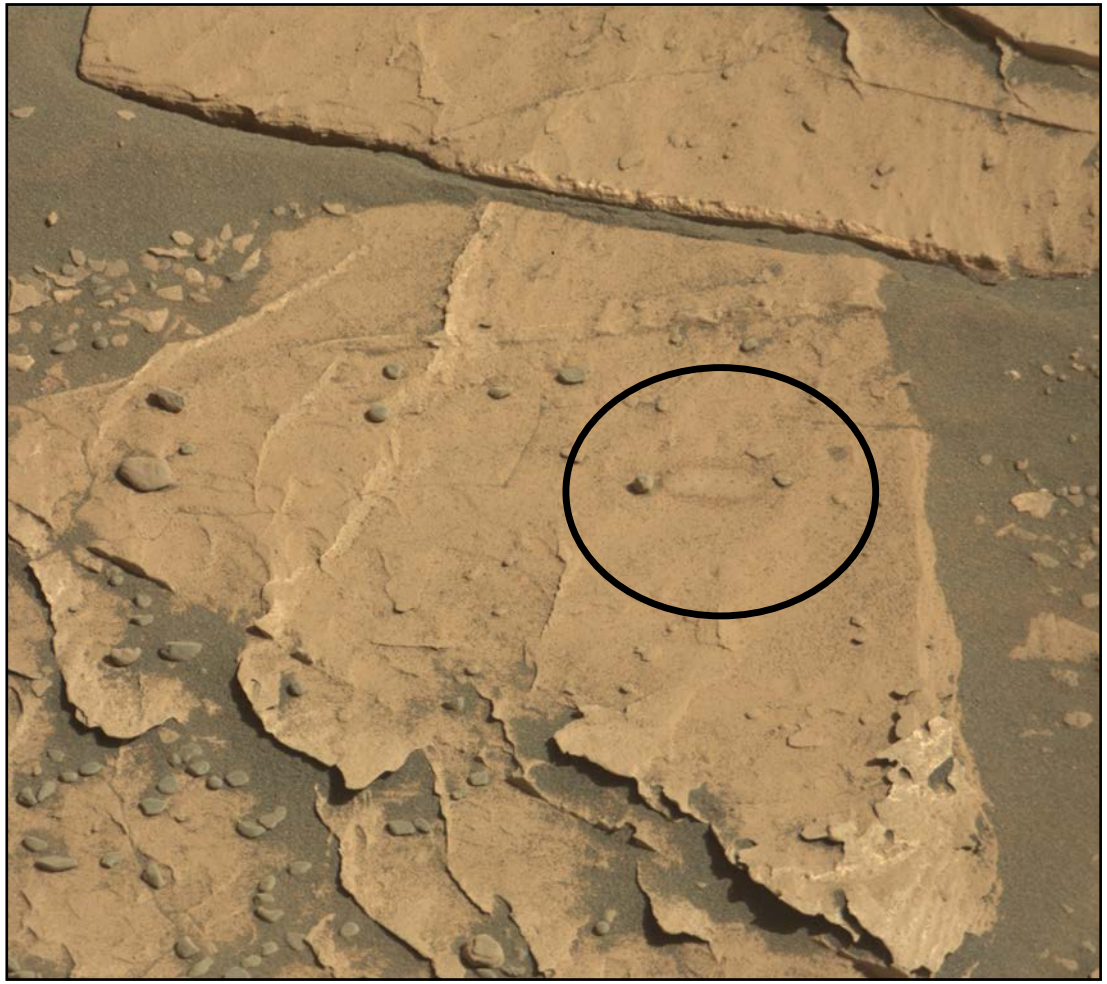


# Target: Kinross_shire

**Sol:** 3278
**Elev (m.):** -4008.86047099604
**CCAM Sequence ID:** CCAM01278

**Whole Target Classification:** Bedrock
**Lamination Strength:** Weakly Laminated
**Lamination Expression:** Laminae-Parallel Nodules
**Grain Visibility:** Below RMI Image Resolution
**Bedrock Appearance:** Dull
**Nodule Presence:** Absent
**Nodule Diameter:** Absent
**Nodule Resistance:** Absent
**Fracture Presence:** Common (~10-20% by Visual Inspection)

| # | Feature | SiO2 (wt%) | TiO2 (wt%) | Al2O3 (wt%) | FeOT (wt%) | MgO (wt%) | CaO (wt%) | Na2O (wt%) | K2O (wt%) | Sum of Oxides (wt%) |
|---|---|---|---|---|---|---|---|---|---|---|
| 1 | Bedrock | 46.3 | 0.85 | 8.7 | 22.8 | 3.5 | 1.6 | 2.14 | 0.69 | 86.66 |
| 2 | Bedrock | 55.5 | 1.02 | 11.8 | 18.9 | 4.9 | 2.5 | 2.53 | 0.91 | 98.04 |
| 3 | Bedrock | 55.7 | 1.07 | 11.4 | 19 | 4.8 | 2.5 | 2.68 | 1.16 | 98.29 |
| 4 | Bedrock | 55.8 | 1.12 | 12.4 | 17.5 | 5.5 | 2.8 | 2.71 | 1.01 | 98.83 |
| 5 | Bedrock | 52.9 | 1.07 | 11.5 | 20.6 | 4.9 | 2.7 | 2.64 | 0.88 | 97.02 |

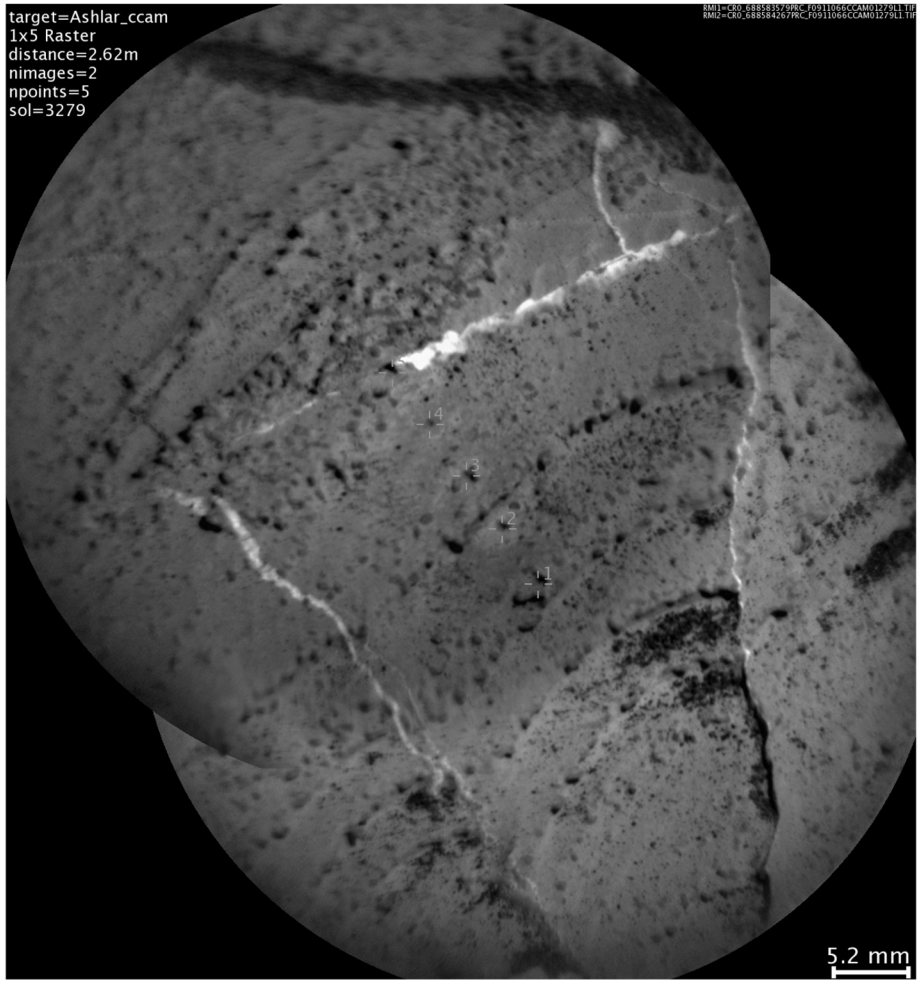


# Target: Ashlar_ccam

**Sol:** 3279
**Elev (m.):** -4008.86047099604
**CCAM Sequence ID:** CCAM01279

**Whole Target Classification:** Bedrock
**Lamination Strength:** Moderately Laminated
**Lamination Expression:** Laminae-Parallel Nodules
**Grain Visibility:** Below RMI Image Resolution
**Bedrock Appearance:** Dull
**Nodule Presence:** Common (~30% by Visual Inspection
**Nodule Diameter:** Small (<1 mm)
**Nodule Resistance:** Protruding
**Fracture Presence:** Common (~10-20% by Visual Inspection)

| # | Feature | SiO2 (wt%) | TiO2 (wt%) | Al2O3 (wt%) | FeOT (wt%) | MgO (wt%) | CaO (wt%) | Na2O (wt%) | K2O (wt%) | Sum of Oxides (wt%) |
|---|---|---|---|---|---|---|---|---|---|---|
| 1 | Bedrock | 56.3 | 1.02 | 12.7 | 19.3 | 3.8 | 2.3 | 2.82 | 0.95 | 99.23 |
| 2 | Bedrock | 53.4 | 1.01 | 12.7 | 20.7 | 4.5 | 2 | 2.79 | 0.92 | 98.02 |
| 3 | Bedrock | 57.3 | 1.08 | 12.9 | 18 | 3.9 | 2.3 | 2.85 | 1.1 | 99.49 |
| 4 | Bedrock | 58.3 | 1.11 | 13.5 | 17.3 | 4.1 | 2.4 | 2.81 | 1.04 | 100.56 |
| 5 | Bedrock | 51.6 | 0.96 | 11.1 | 20.6 | 4.5 | 1.8 | 2.49 | 0.78 | 93.79 |

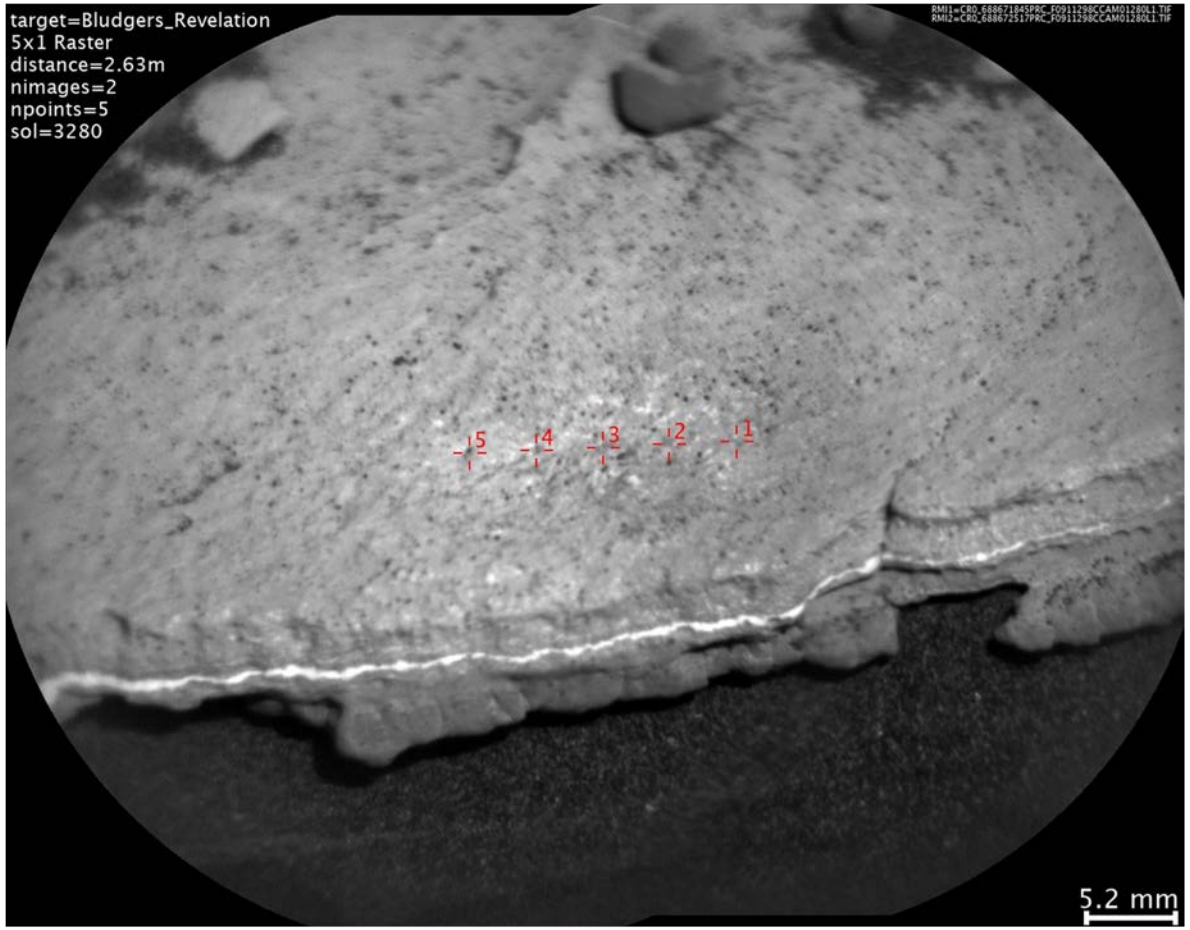


# Target: Bludgers_Revelation

**Sol:** 3279
**Elev (m.):** -4004.21722347749
**CCAM Sequence ID:** CCAM01280

**Whole Target Classification:** Bedrock
**Lamination Strength:** Weakly Laminated
**Lamination Expression:** Laminae-Parallel Nodules
**Grain Visibility:** Below RMI Image Resolution
**Bedrock Appearance:** Dull
**Nodule Presence:** Absent
**Nodule Diameter:** Absent
**Nodule Resistance:** Absent
**Fracture Presence:** Occasional (<10% by Visual Inspection)

| # | Feature | SiO2 (wt%) | TiO2 (wt%) | Al2O3 (wt%) | FeOT (wt%) | MgO (wt%) | CaO (wt%) | Na2O (wt%) | K2O (wt%) | Sum of Oxides (wt%) |
|---|---|---|---|---|---|---|---|---|---|---|
| 1 | Bedrock | 35.6 | 0.64 | 6.3 | 10.6 | 2.6 | 23.2 | 0.85 | 0.17 | 79.92 |
| 2 | Bedrock | 31.5 | 0.61 | 4.9 | 10.2 | 2.9 | 24.6 | 0.7 | 0.11 | 75.6 |
| 3 | Bedrock | 26.3 | 0.58 | 4.6 | 9 | 2.3 | 26.9 | 0.61 | 0.11 | 70.41 |
| 4 | Bedrock | 30.4 | 0.57 | 5.4 | 9.7 | 2.6 | 24.8 | 0.72 | 0.11 | 74.38 |
| 5 | Bedrock | 33.3 | 0.63 | 6 | 12.1 | 2.5 | 22.2 | 0.89 | 0.15 | 77.84 |



# Target: Isle_of_Mists_ccam

**Sol:** 3283
**Elev (m.):** -4000.75320515567
**CCAM Sequence ID:** CCAM01282

**Whole Target Classification:** Bedrock
**Lamination Strength:** Absent
**Lamination Expression:** Absent
**Grain Visibility:** Unclear
**Bedrock Appearance:** Dull
**Nodule Presence:** Absent
**Nodule Diameter:** Absent
**Nodule Resistance:** Absent
**Fracture Presence:** Occasional (<10% by Visual Inspection)

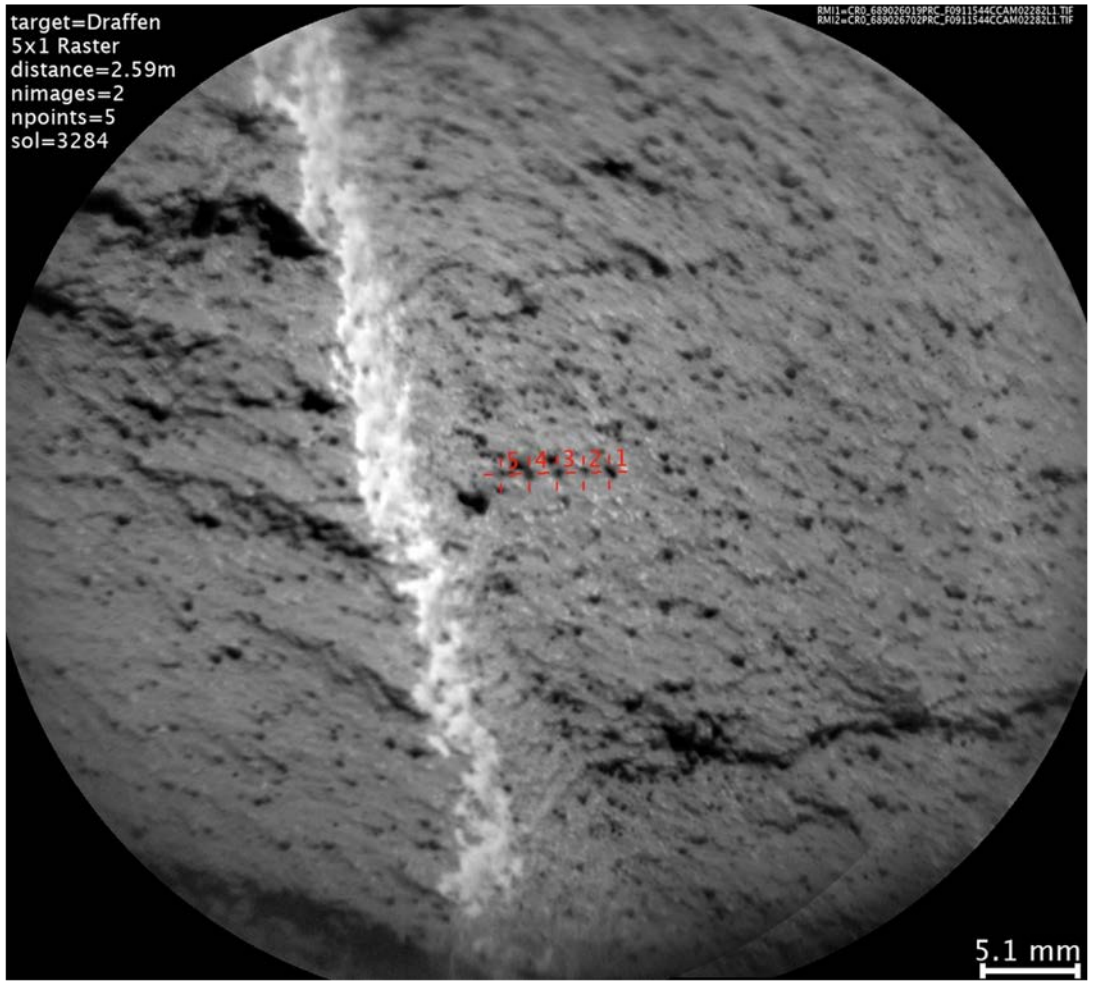
| # | Feature | SiO2 (wt%) | TiO2 (wt%) | Al2O3 (wt%) | FeOT (wt%) | MgO (wt%) | CaO (wt%) | Na2O (wt%) | K2O (wt%) | Sum of Oxides (wt%) |
|---|---|---|---|---|---|---|---|---|---|---|
| 1 | Bedrock | 42.5 | 0.81 | 7.8 | 29.4 | 2.3 | 2.3 | 1.78 | 0.6 | 87.48 |
| 2 | Bedrock | 47.9 | 0.92 | 9.8 | 19.6 | 3.5 | 1.5 | 2.19 | 0.69 | 86.06 |
| 3 | Bedrock | 53 | 1.01 | 11.7 | 20.6 | 5.1 | 2.7 | 2.61 | 1.05 | 97.67 |
| 4 | Bedrock | 54.3 | 1.04 | 11.9 | 19.2 | 6 | 2.4 | 2.5 | 0.99 | 98.34 |
| 5 | Bedrock | 54.3 | 1.04 | 11.9 | 19.2 | 6 | 2.4 | 2.5 | 0.99 | 98.34 |

# Target: Draffen

**Sol:** 3284
**Elev (m.):** -4000.62910146991
**CCAM Sequence ID:** CCAM02282

**Whole Target Classification:** Bedrock
**Lamination Strength:** Weakly Laminated
**Lamination Expression:** Laminae-Parallel Nodules
**Grain Visibility:** Below RMI Image Resolution
**Bedrock Appearance:** Dull
**Nodule Presence:** Common (~30% by Visual Inspection
**Nodule Diameter:** Small (<1 mm)
**Nodule Resistance:** Protruding
**Fracture Presence:** Common (~10-20% by Visual Inspection)

| # | Feature | SiO2 (wt%) | TiO2 (wt%) | Al2O3 (wt%) | FeOT (wt%) | MgO (wt%) | CaO (wt%) | Na2O (wt%) | K2O (wt%) | Sum of Oxides (wt%) |
|---|---|---|---|---|---|---|---|---|---|---|
| 1 | Bedrock | 52.6 | 0.93 | 10.1 | 18.6 | 3.5 | 1.5 | 2.38 | 0.98 | 90.67 |
| 2 | Bedrock | 57 | 1.09 | 12.7 | 17.6 | 3.6 | 2.4 | 2.84 | 1.2 | 98.44 |
| 3 | Bedrock | 54.6 | 0.97 | 11.8 | 21.6 | 3.7 | 1.8 | 2.68 | 1.1 | 98.34 |
| 4 | Bedrock | 51.9 | 1.14 | 9.9 | 21.3 | 5.1 | 1.4 | 2.34 | 0.85 | 93.93 |
| 5 | Bedrock | 45.1 | 0.82 | 7.6 | 17.7 | 8.8 | 7.4 | 1.47 | 0.44 | 89.35 |

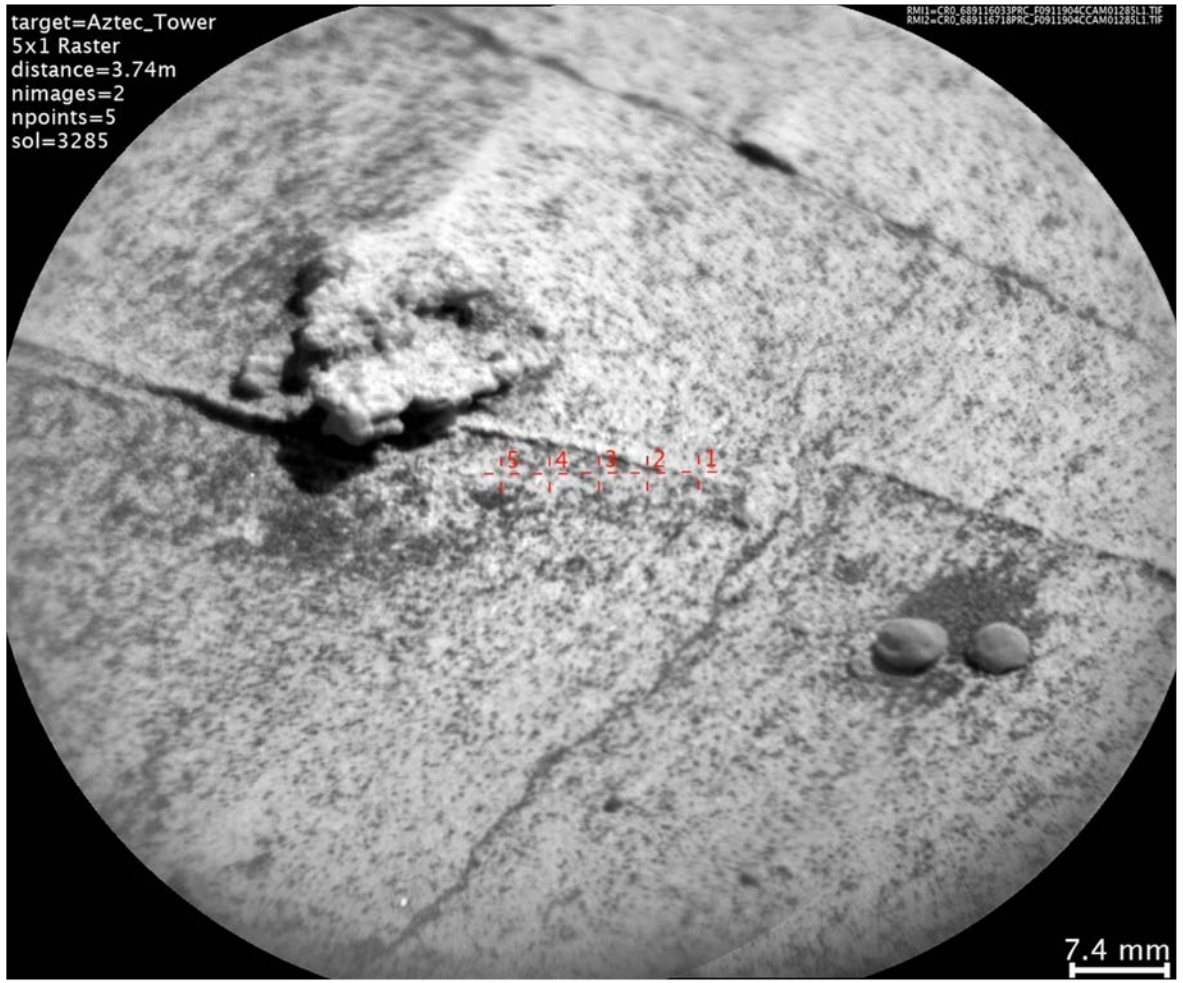


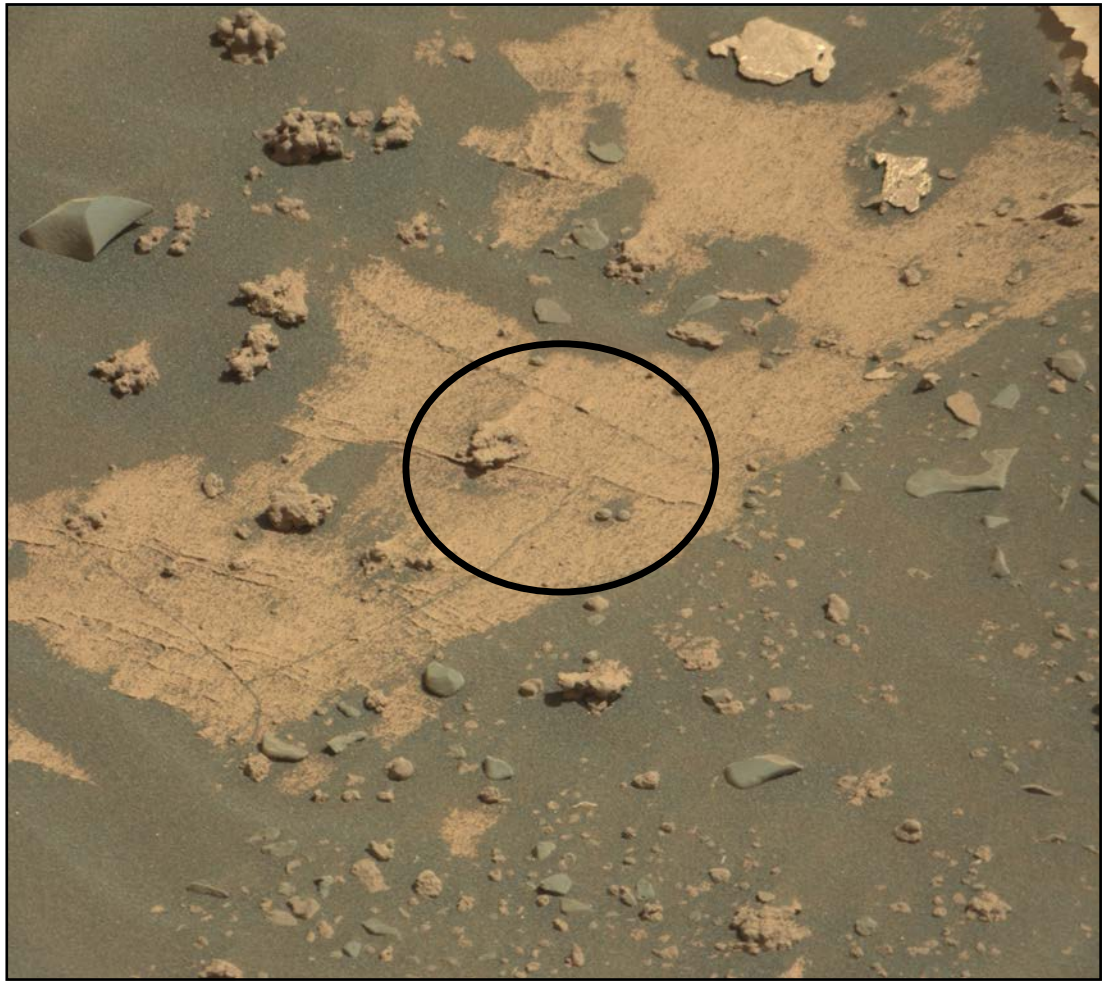
# Target: Aztec_Tower

**Sol:** 3285
**Elev (m.):** -3993.51742369127
**CCAM Sequence ID:** CCAM01285

**Whole Target Classification:** Bedrock
**Lamination Strength:** Absent
**Lamination Expression:** Absent
**Grain Visibility:** Below RMI Image Resolution
**Bedrock Appearance:** Dull
**Nodule Presence:** Occasional (~10% by Visual Inspection)
**Nodule Diameter:** Large (>3 mm)
**Nodule Resistance:** Protruding
**Fracture Presence:** Occasional (<10% by Visual Inspection)

| # | Feature | SiO2 (wt%) | TiO2 (wt%) | Al2O3 (wt%) | FeOT (wt%) | MgO (wt%) | CaO (wt%) | Na2O (wt%) | K2O (wt%) | Sum of Oxides (wt%) |
|---|---|---|---|---|---|---|---|---|---|---|
| 1 | Bedrock | 56.1 | 0.93 | 14.3 | 18.9 | 4.3 | 3.8 | 3.12 | 1.63 | 103.06 |
| 2 | Bedrock | 56.4 | 1.08 | 12.5 | 20.2 | 4.4 | 2.1 | 3 | 1.57 | 101.13 |
| 3 | Bedrock | 56.5 | 1.02 | 15.3 | 19.8 | 4.2 | 2.2 | 3.32 | 1.75 | 104.1 |
| 4 | Bedrock | 56.2 | 1.02 | 14.5 | 20.5 | 4.1 | 2.2 | 3.25 | 1.7 | 103.43 |
| 5 | Bedrock | 57.2 | 1.1 | 14.2 | 19.8 | 4.2 | 2.2 | 3.37 | 1.86 | 103.91 |



# Target: Fallen_Stack

**Sol:** 3286
**Elev (m.):** -3990.99218244289
**CCAM Sequence ID:** CCAM01286

**Whole Target Classification:** Unconsolidated (Sand/Soil/Pebbles)
**Lamination Strength:** Moderately Laminated
**Lamination Expression:** Primary Stratification
**Grain Visibility:** Below RMI Image Resolution
**Bedrock Appearance:** Dull
**Nodule Presence:** Absent
**Nodule Diameter:** Absent
**Nodule Resistance:** Absent
**Fracture Presence:** Occasional (<10% by Visual Inspection)

| # | Feature | SiO2 (wt%) | TiO2 (wt%) | Al2O3 (wt%) | FeOT (wt%) | MgO (wt%) | CaO (wt%) | Na2O (wt%) | K2O (wt%) | Sum of Oxides (wt%) |
|---|---|---|---|---|---|---|---|---|---|---|
| 1 | Sand | 46.5 | 0.8 | 8.9 | 16.3 | 5.4 | 4.1 | 7.22 | 0.28 | 89.5 |
| 2 | Nodule | 47.4 | 0.68 | 8.5 | 23.5 | 2.8 | 0.9 | 8.03 | 0.34 | 92.13 |
| 3 | Nodule | 51.9 | 0.74 | 10.5 | 8.6 | 3.8 | 0.4 | 12.93 | 0.33 | 89.3 |
| 4 | Nodule | 44 | 1.02 | 7.9 | 21.9 | 6.9 | 2.1 | 3.19 | 0.71 | 87.76 |
| 5 | Nodule | 44.3 | 0.75 | 10.1 | 20.5 | 6.6 | 2 | 8.33 | 0.44 | 93.04 |

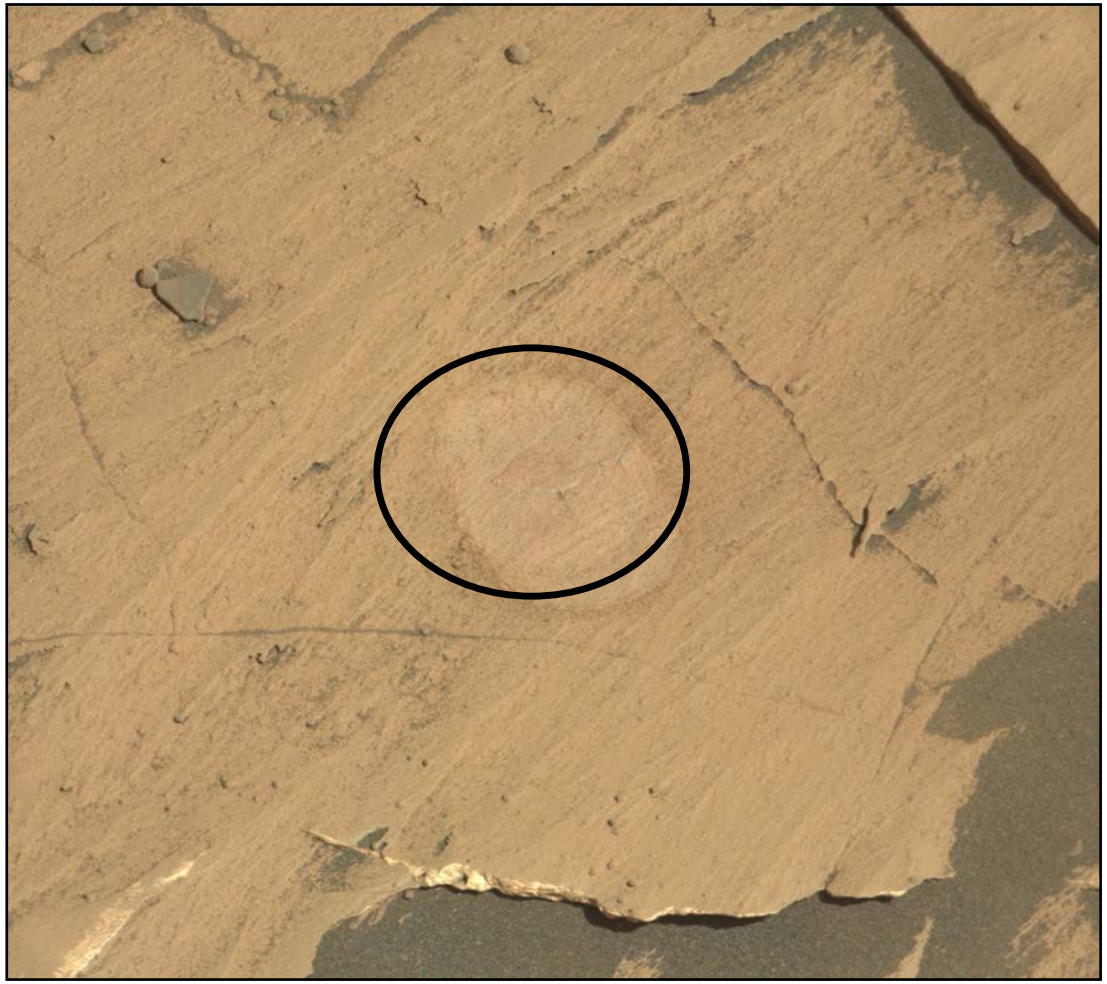
# Target: Zechstein_ccam

**Sol:** 3288
**Elev (m.):** -3990.772475

**CCAM Sequence ID:** CCAM01287

**Whole Target Classification:** Bedrock
**Lamination Strength:** Moderately Laminated
**Lamination Expression:** Laminae-Parallel Nodules
**Grain Visibility:** Below RMI Image Resolution
**Bedrock Appearance:** Dull
**Nodule Presence:** Absent
**Nodule Diameter:** Absent
**Nodule Resistance:** Absent
**Fracture Presence:** Common (~10-20% by Visual Inspection)

| # | Feature | SiO2 (wt%) | TiO2 (wt%) | Al2O3 (wt%) | FeOT (wt%) | MgO (wt%) | CaO (wt%) | Na2O (wt%) | K2O (wt%) | Sum of Oxides (wt%) |
|---|---|---|---|---|---|---|---|---|---|---|
| 1 | Nodule | 49.9 | 0.86 | 10.8 | 19.2 | 4.3 | 2.5 | 4.65 | 0.64 | 92.9 |
| 2 | Nodule | 43.5 | 0.92 | 9.2 | 23.9 | 3.2 | 2.5 | 1.96 | 0.53 | 85.61 |
| 3 | Nodule | 39.7 | 0.71 | 7.5 | 15.1 | 3.6 | 14.5 | 1.52 | 0.42 | 82.96 |
| 4 | Nodule | 53.4 | 1.06 | 11.4 | 20.4 | 5 | 2.9 | 2.47 | 0.87 | 97.46 |
| 5 | Nodule | 52.1 | 0.96 | 12.2 | 21.3 | 4.6 | 2.9 | 2.96 | 1.19 | 98.16 |

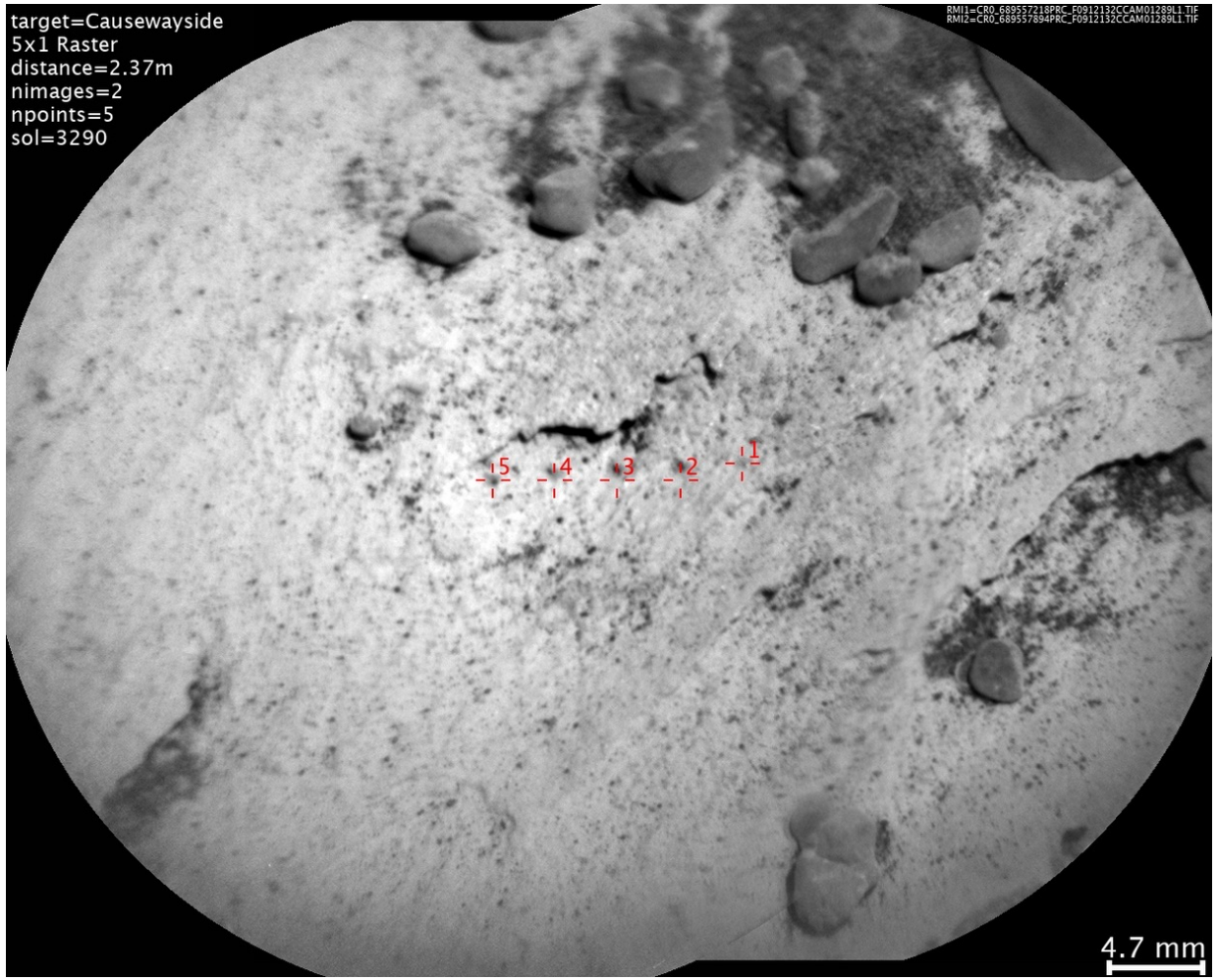


# Target: Causewayside

**Sol:** 3290
**Elev (m.):** -3990.99218244289
**CCAM Sequence ID:** CCAM01289

**Whole Target Classification:** Bedrock
**Lamination Strength:** Weakly Laminated
**Lamination Expression:** Laminae-Parallel Nodules
**Grain Visibility:** Below RMI Image Resolution
**Bedrock Appearance:** Dull
**Nodule Presence:** Absent
**Nodule Diameter:** Absent
**Nodule Resistance:** Protruding
**Fracture Presence:** Absent

| # | Feature | SiO2 (wt%) | TiO2 (wt%) | Al2O3 (wt%) | FeOT (wt%) | MgO (wt%) | CaO (wt%) | Na2O (wt%) | K2O (wt%) | Sum of Oxides (wt%) |
|---|---|---|---|---|---|---|---|---|---|---|
| 1 | Bedrock | 42.1 | 0.82 | 8.4 | 15.4 | 3.7 | 14.8 | 1.44 | 0.48 | 87.1 |
| 2 | Bedrock | 46.8 | 0.89 | 10.3 | 20 | 3.9 | 2.4 | 2.42 | 0.78 | 87.55 |
| 3 | Bedrock | 43.4 | 0.83 | 9.2 | 26.5 | 3.5 | 3.1 | 1.9 | 0.42 | 88.83 |
| 4 | Bedrock | 47.1 | 0.93 | 9.7 | 17.8 | 13.5 | 2.3 | 2.13 | 0.6 | 94 |
| 5 | Bedrock | 41 | 0.82 | 7.5 | 21.4 | 9.6 | 1.6 | 1.74 | 0.35 | 83.97 |



# Target: Sannox

**Sol:** 3291
**Elev (m.):** -3990.772475

**CCAM Sequence ID:** CCAM03289

**Whole Target Classification:** Unconsolidated (Sand/Soil/Pebbles)
**Lamination Strength:** Weakly Laminated
**Lamination Expression:** Laminae-Parallel Nodules
**Grain Visibility:** Below RMI Image Resolution
**Bedrock Appearance:** Dull
**Nodule Presence:** Absent
**Nodule Diameter:** Absent
**Nodule Resistance:** Protruding
**Fracture Presence:** Absent

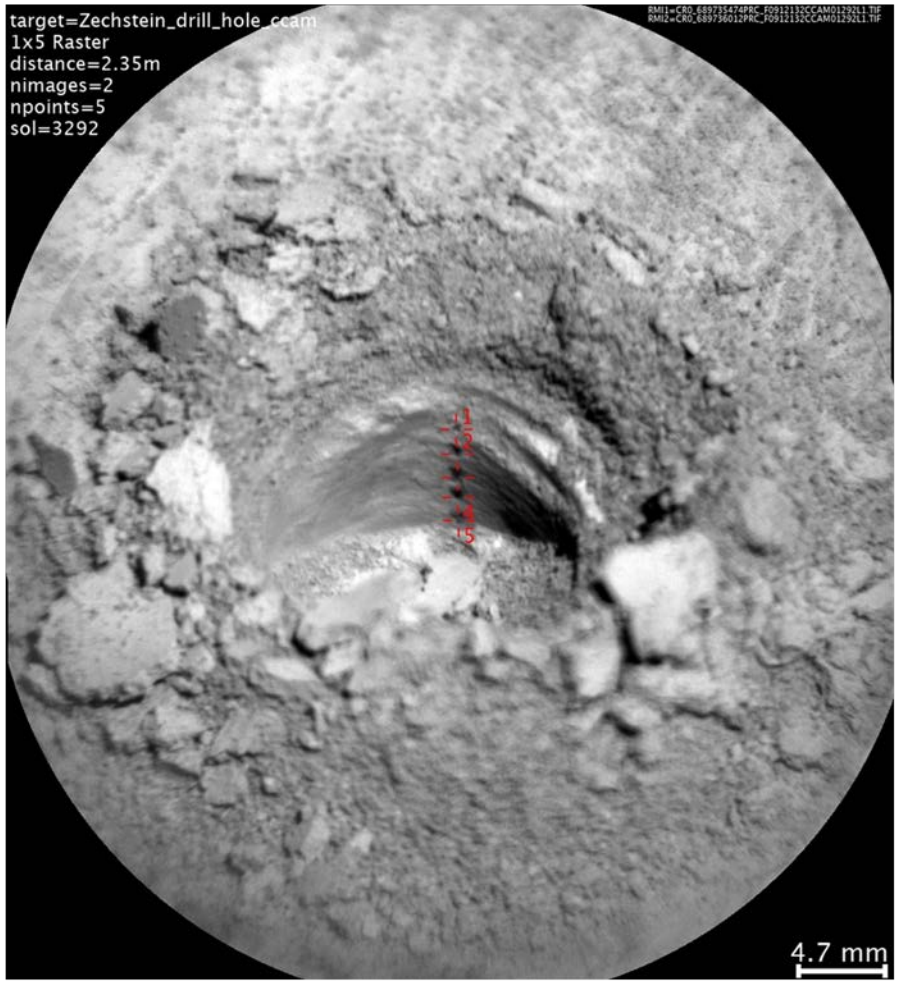
| # | Feature | SiO2 (wt%) | TiO2 (wt%) | Al2O3 (wt%) | FeOT (wt%) | MgO (wt%) | CaO (wt%) | Na2O (wt%) | K2O (wt%) | Sum of Oxides (wt%) |
|---|---|---|---|---|---|---|---|---|---|---|
| 1 | Sand | 49.5 | 0.89 | 10.8 | 15.7 | 10.8 | 3.5 | 2.18 | 0.6 | 93.91 |
| 2 | Sand | 42.6 | 0.85 | 9.1 | 20.9 | 7.1 | 5.3 | 1.92 | 0.3 | 88.14 |
| 3 | Sand | 37.6 | 0.83 | 7.1 | 27.1 | 5 | 3.2 | 1.61 | 0.19 | 82.56 |
| 4 | Sand | 53.9 | 1 | 10.7 | 18.9 | 5.3 | 3.3 | 2.34 | 1.26 | 96.71 |
| 5 | Sand | 40.6 | 0.91 | 8.6 | 19.4 | 8.2 | 6.9 | 1.53 | 0.14 | 86.28 |

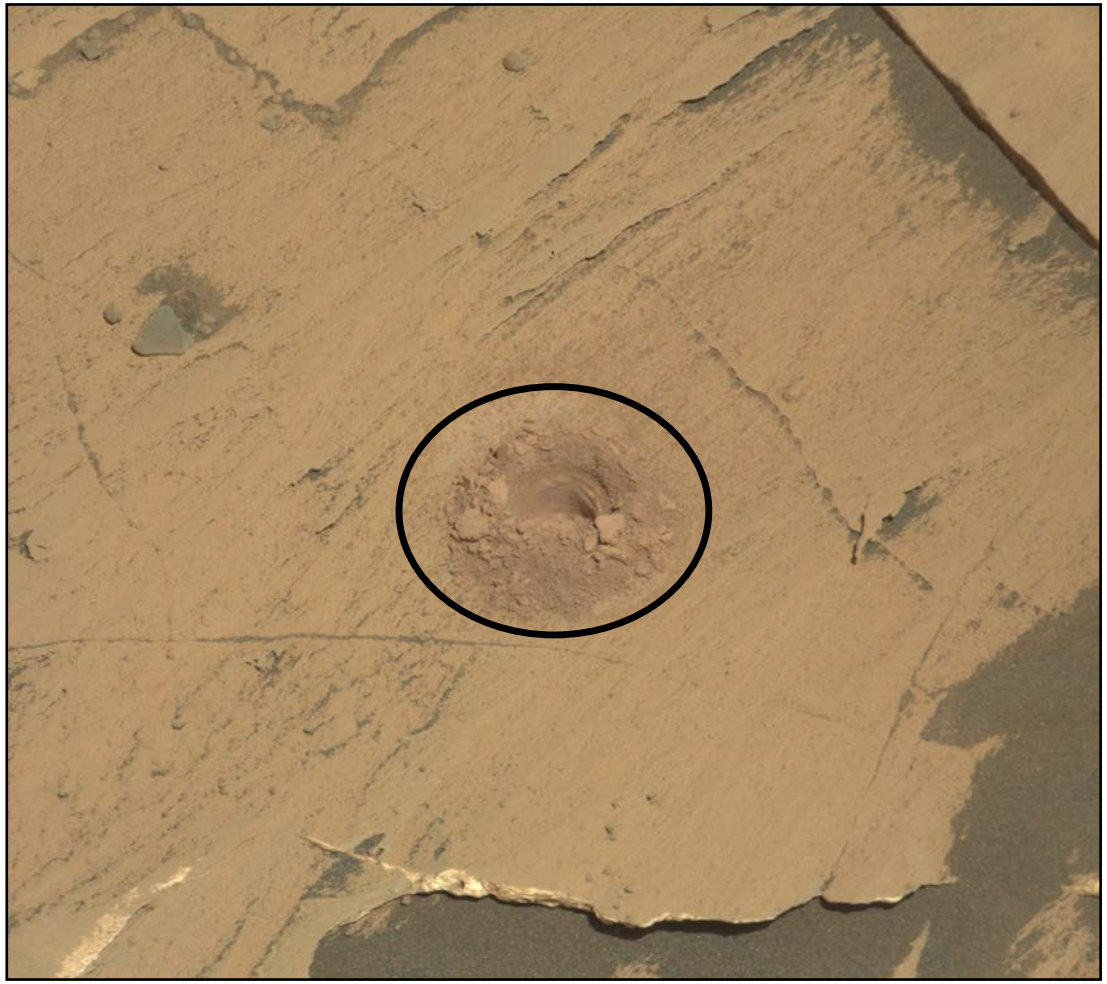
# Target: Zechstein_drill_hole_ccam

**Sol:** 3292 **Elev (m.):** -3990.77496707495 **CCAM Sequence ID:** CCAM01292

**Whole Target Classification:** Bedrock
**Lamination Strength:** Moderately Laminated
**Lamination Expression:** Laminae-Parallel Nodules
**Grain Visibility:** Below RMI Image Resolution
**Bedrock Appearance:** Dull
**Nodule Presence:** Absent
**Nodule Diameter:** Absent
**Nodule Resistance:** Absent
**Fracture Presence:** Common (~10-20% by Visual Inspection)

| # | Feature | SiO2 (wt%) | TiO2 (wt%) | Al2O3 (wt%) | FeOT (wt%) | MgO (wt%) | CaO (wt%) | Na2O (wt%) | K2O (wt%) | Sum of Oxides (wt%) |
|---|---|---|---|---|---|---|---|---|---|---|
| 1 | Bedrock | 37.5 | 0.84 | 7.4 | 17.7 | 3.2 | 14.4 | 1.29 | 0.4 | 82.73 |
| 2 | Bedrock | 50.2 | 0.97 | 9.5 | 22.1 | 4.6 | 2.8 | 2.14 | 0.72 | 93.05 |
| 3 | Bedrock | 51.9 | 0.98 | 10.5 | 19.7 | 5.2 | 3.9 | 2.24 | 0.77 | 95.12 |
| 4 | Bedrock | 44 | 0.92 | 9.1 | 22.1 | 3.5 | 3.4 | 1.8 | 0.42 | 85.22 |
| 5 | Bedrock | 44.5 | 1 | 9.1 | 16.2 | 3.7 | 11.8 | 1.64 | 0.58 | 88.5 |



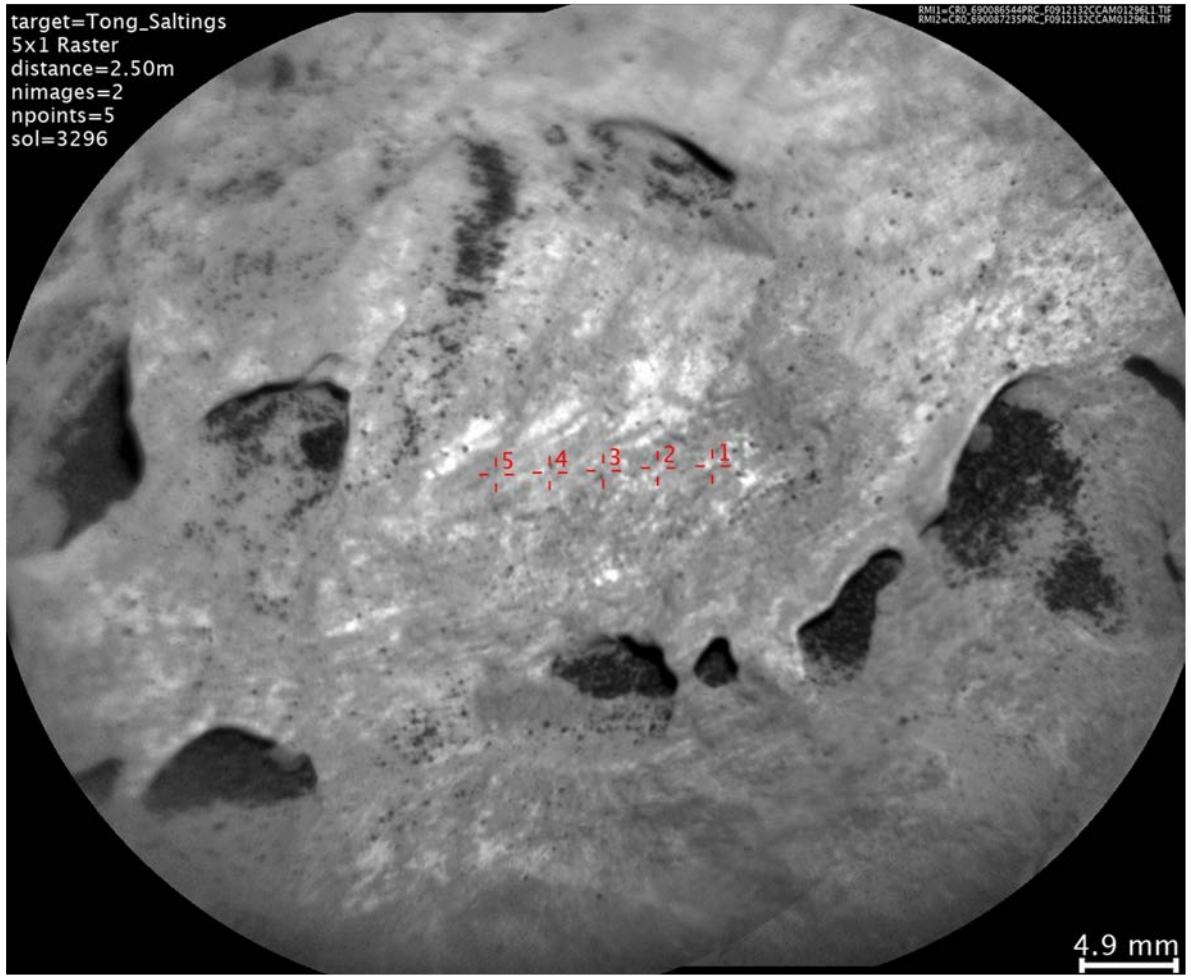



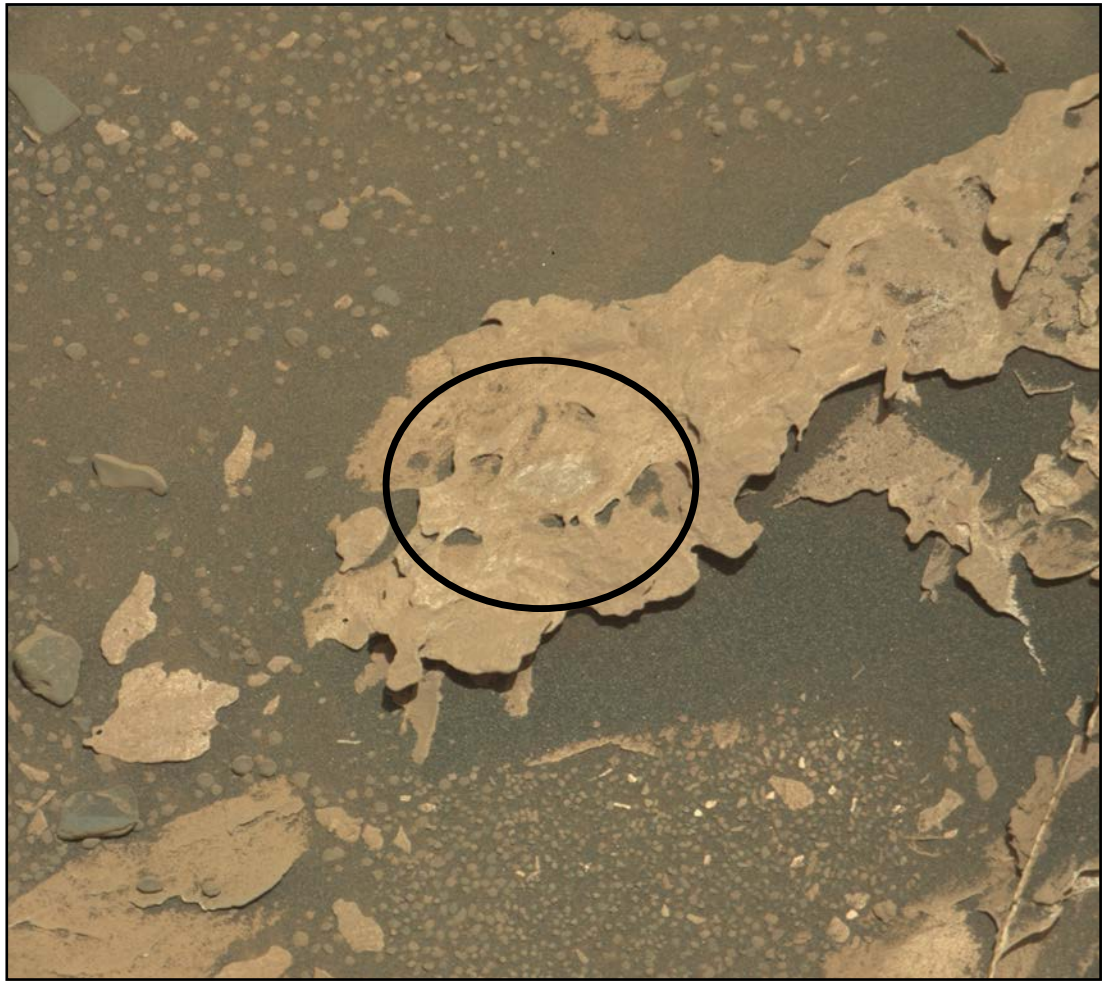
# Target: Tong_Saltings

**Sol:** 3296
**Elev (m.):** -3990.70514452494
**CCAM Sequence ID:** CCAM01296

**Whole Target Classification:** Bedrock
**Lamination Strength:** Weakly Laminated
**Lamination Expression:** Primary Stratification
**Grain Visibility:** Below RMI Image Resolution
**Bedrock Appearance:** Dull
**Nodule Presence:** Absent
**Nodule Diameter:** Absent
**Nodule Resistance:** Absent
**Fracture Presence:** Common (~10-20% by Visual Inspection)

| # | Feature | SiO2 (wt%) | TiO2 (wt%) | Al2O3 (wt%) | FeOT (wt%) | MgO (wt%) | CaO (wt%) | Na2O (wt%) | K2O (wt%) | Sum of Oxides (wt%) |
|---|---|---|---|---|---|---|---|---|---|---|
| 1 | Vein or Fracture | 36.5 | 0.57 | 6.4 | 7 | 2.6 | 22.9 | 0.7 | 0.2 | 76.83 |
| 2 | Vein or Fracture | 22.3 | 0.2 | 3.1 | 2.3 | 2.3 | 27.7 | 0.34 | 0.06 | 58.29 |
| 3 | Vein or Fracture | 28.1 | 0.57 | 4.6 | 6.5 | 2.7 | 24.4 | 0.46 | 0.13 | 67.47 |
| 4 | Vein or Fracture | 28 | 0.58 | 4.2 | 5.8 | 2.6 | 23.6 | 0.45 | 0.16 | 65.39 |
| 5 | Vein or Fracture | 38 | 0.62 | 5.3 | 10.1 | 3.6 | 22.9 | 0.62 | 0.18 | 81.43 |



# Target: Comet_Stone

**Sol:** 3293
**Elev (m.):** -3990.63005444745
**CCAM Sequence ID:** CCAM02292

**Whole Target Classification:** Float
**Lamination Strength:** Absent
**Lamination Expression:** Absent
**Grain Visibility:** Below RMI Image Resolution
**Bedrock Appearance:** Dull
**Nodule Presence:** Absent
**Nodule Diameter:** Absent
**Nodule Resistance:** Absent
**Fracture Presence:** Absent

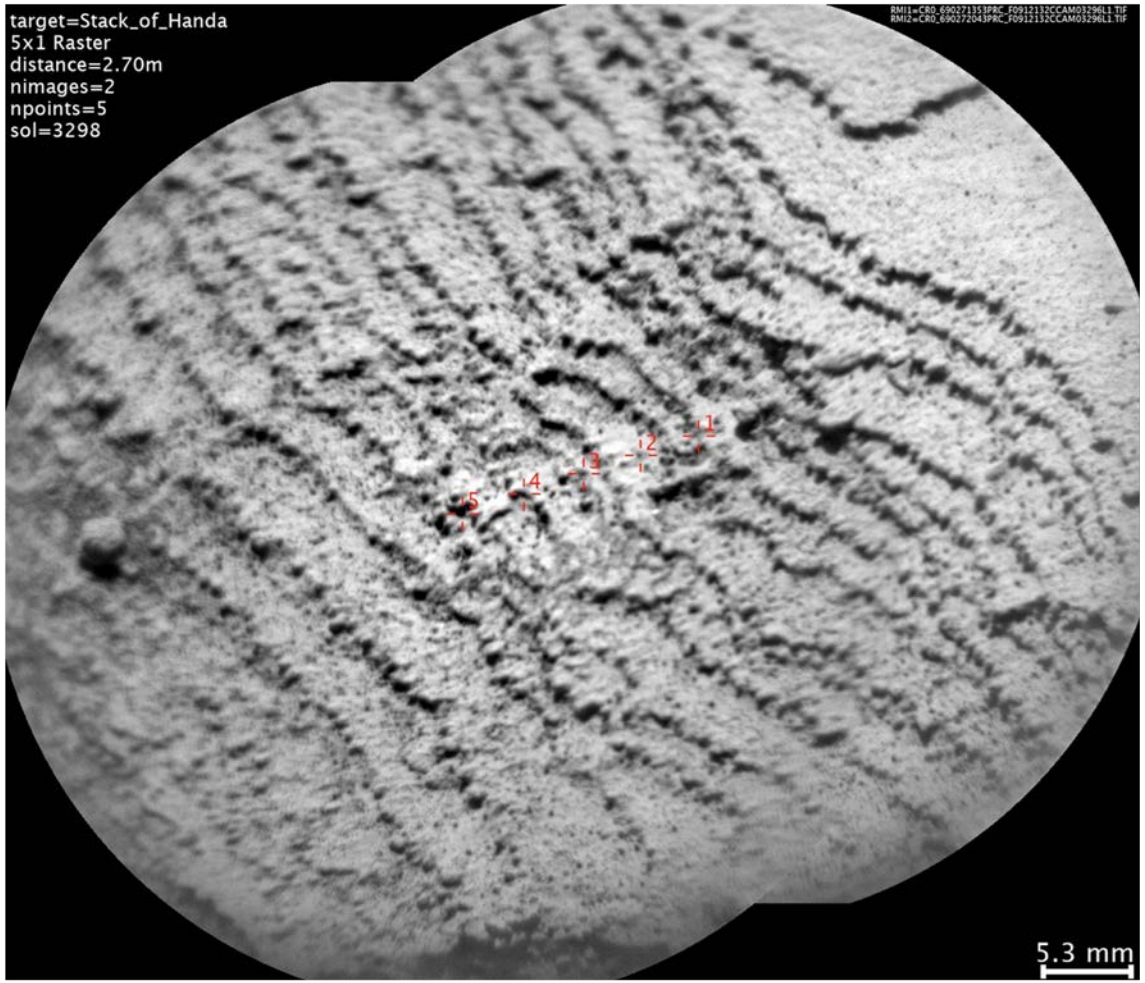
| # | Feature | SiO2 (wt%) | TiO2 (wt%) | Al2O3 (wt%) | FeOT (wt%) | MgO (wt%) | CaO (wt%) | Na2O (wt%) | K2O (wt%) | Sum of Oxides (wt%) |
|---|---|---|---|---|---|---|---|---|---|---|
| 1 | Bedrock | 44.2 | 1.61 | 9.8 | 20.6 | 8.9 | 2.2 | 2.69 | 1.13 | 91.08 |
| 2 | Bedrock | 43.6 | 1.56 | 10.6 | 20.6 | 6.7 | 4.8 | 2.75 | 1.14 | 91.85 |
| 3 | Bedrock | 44.7 | 1.77 | 11 | 20.3 | 7 | 3.9 | 2.89 | 1.66 | 93.32 |
| 4 | Bedrock | 43.9 | 1.7 | 10.3 | 20.2 | 7.4 | 4.8 | 2.8 | 1.52 | 92.69 |
| 5 | Bedrock | 46.7 | 1.48 | 10.4 | 20.5 | 10.2 | 1.4 | 2.85 | 1.55 | 95.2 |

# Target: Stack_of_Handa

**Sol:** 3298
**Elev (m.):** -3991.00724994343
**CCAM Sequence ID:** CCAM03296

**Whole Target Classification:** Bedrock
**Lamination Strength:** Moderately Laminated
**Lamination Expression:** Laminae-Parallel Nodules
**Grain Visibility:** Below RMI Image Resolution
**Bedrock Appearance:** Dull
**Nodule Presence:** Pervasive (>50% by Visual Inspection)
**Nodule Diameter:** Small (<1 mm)
**Nodule Resistance:** Protruding
**Fracture Presence:** Absent

| # | Feature | SiO2 (wt%) | TiO2 (wt%) | Al2O3 (wt%) | FeOT (wt%) | MgO (wt%) | CaO (wt%) | Na2O (wt%) | K2O (wt%) | Sum of Oxides (wt%) |
|---|---|---|---|---|---|---|---|---|---|---|
| 1 | Nodule | 52.1 | 0.91 | 10.9 | 19.7 | 4.3 | 2.1 | 2.65 | 0.93 | 93.56 |
| 2 | Nodule | 56.4 | 1.06 | 11.8 | 19.8 | 4.8 | 2.4 | 2.68 | 1.17 | 100.16 |
| 3 | Nodule | 44.4 | 0.87 | 8.7 | 27.3 | 2.9 | 1.4 | 2.03 | 0.5 | 88.08 |
| 4 | Nodule | 52.2 | 1.03 | 11.1 | 21.7 | 5.3 | 2.4 | 2.66 | 1.2 | 97.54 |
| 5 | Nodule | 43.2 | 0.83 | 9.3 | 27.6 | 3.4 | 1.3 | 2.16 | 0.58 | 88.38 |

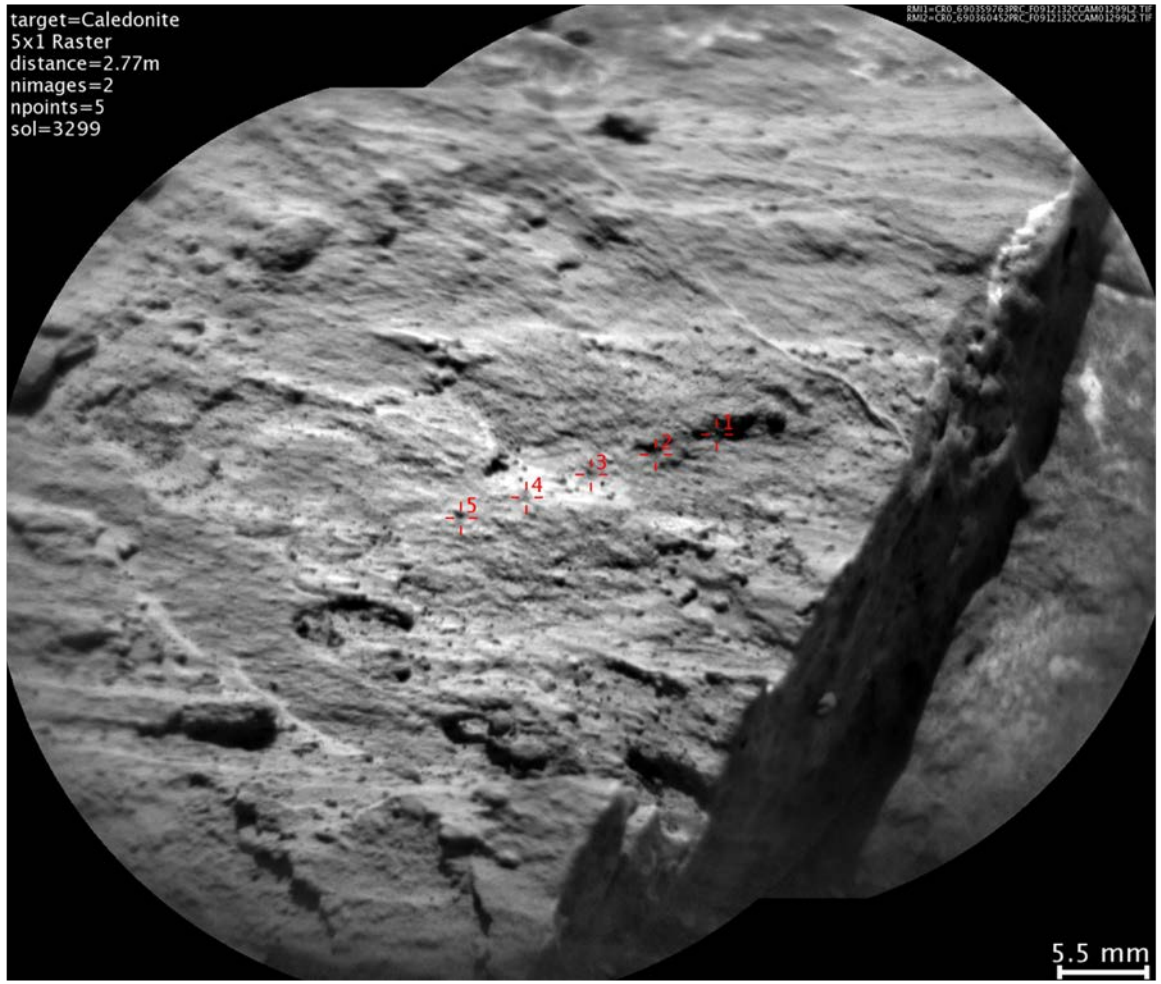


# Target: Caledonite

**Sol:** 3299
**Elev (m.):** -3990.87534369572
**CCAM Sequence ID:** CCAM01299

**Whole Target Classification:** Bedrock
**Lamination Strength:** Weakly Laminated
**Lamination Expression:** Laminae-Parallel Nodules
**Grain Visibility:** Below RMI Image Resolution
**Bedrock Appearance:** Dull
**Nodule Presence:** Occasional (~10% by Visual Inspection)
**Nodule Diameter:** Small (<1 mm)
**Nodule Resistance:** Protruding
**Fracture Presence:** Occasional (<10% by Visual Inspection)

| # | Feature | SiO2 (wt%) | TiO2 (wt%) | Al2O3 (wt%) | FeOT (wt%) | MgO (wt%) | CaO (wt%) | Na2O (wt%) | K2O (wt%) | Sum of Oxides (wt%) |
|---|---|---|---|---|---|---|---|---|---|---|
| 1 | Bedrock | 43 | 0.77 | 10.1 | 14.9 | 3.8 | 15.5 | 1.76 | 0.6 | 90.37 |
| 2 | Bedrock | 40.5 | 0.76 | 7.6 | 14.7 | 4 | 16.5 | 1.4 | 0.43 | 86 |
| 3 | Bedrock | 40.8 | 0.77 | 7.9 | 15.8 | 4.2 | 14.6 | 1.46 | 0.43 | 85.83 |
| 4 | Bedrock | 41.1 | 0.78 | 8.6 | 15.2 | 3.8 | 15.5 | 1.63 | 0.49 | 87.13 |
| 5 | Bedrock | 45.9 | 0.81 | 8.9 | 19 | 4.6 | 9.1 | 1.98 | 0.62 | 90.88 |

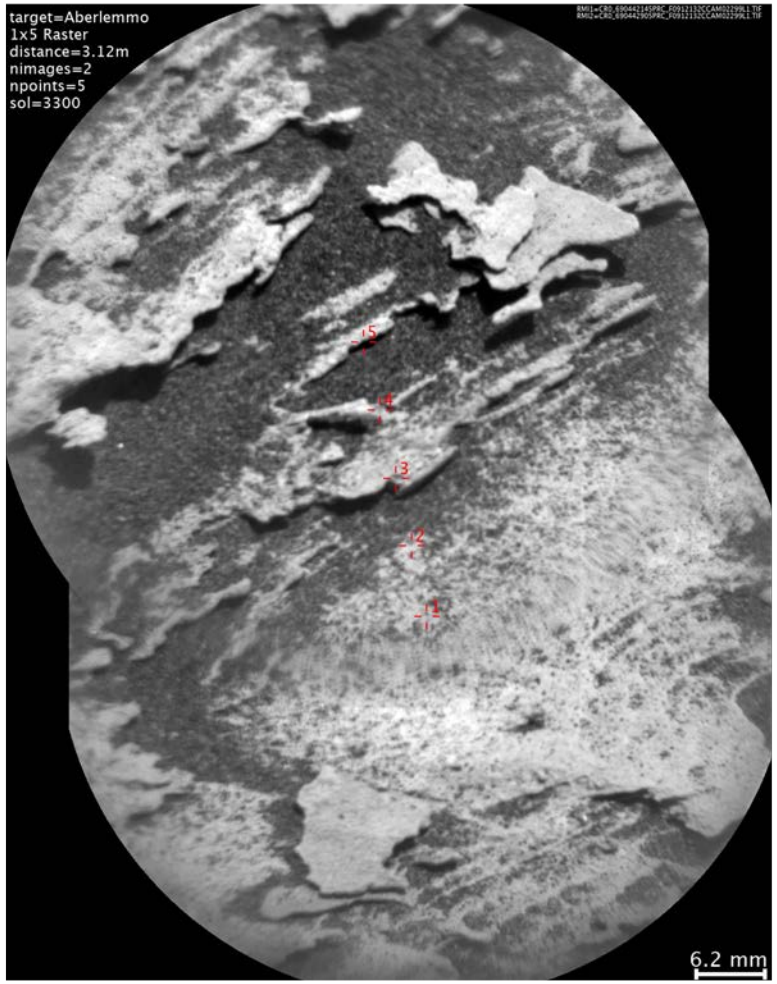


# Target: Aberlemmo

**Sol:** 3299
**Elev (m.):** -3990.77976018272
**CCAM Sequence ID:** CCAM02299

**Whole Target Classification:** Bedrock
**Lamination Strength:** Moderately Laminated
**Lamination Expression:** Primary Stratification
**Grain Visibility:** Below RMI Image Resolution
**Bedrock Appearance:** Dull
**Nodule Presence:** Absent
**Nodule Diameter:** Absent
**Nodule Resistance:** Absent
**Fracture Presence:** Absent

| # | Feature | SiO2 (wt%) | TiO2 (wt%) | Al2O3 (wt%) | FeOT (wt%) | MgO (wt%) | CaO (wt%) | Na2O (wt%) | K2O (wt%) | Sum of Oxides (wt%) |
|---|---|---|---|---|---|---|---|---|---|---|
| 1 | Bedrock | 48.8 | 0.89 | 10.2 | 22.1 | 3.5 | 2.5 | 2.75 | 0.99 | 91.66 |
| 2 | Bedrock | 52 | 0.88 | 12.9 | 20.4 | 6.9 | 3.1 | 2.75 | 1.01 | 99.97 |
| 3 | Bedrock | 36.1 | 0.69 | 7.9 | 14.8 | 3.1 | 19.5 | 1.23 | 0.38 | 83.67 |
| 4 | Bedrock | 41.8 | 0.79 | 8.9 | 15.1 | 3.3 | 16.7 | 1.47 | 0.41 | 88.55 |
| 5 | Bedrock | 44 | 0.79 | 10.2 | 17.2 | 3.7 | 14.4 | 1.89 | 0.57 | 92.67 |

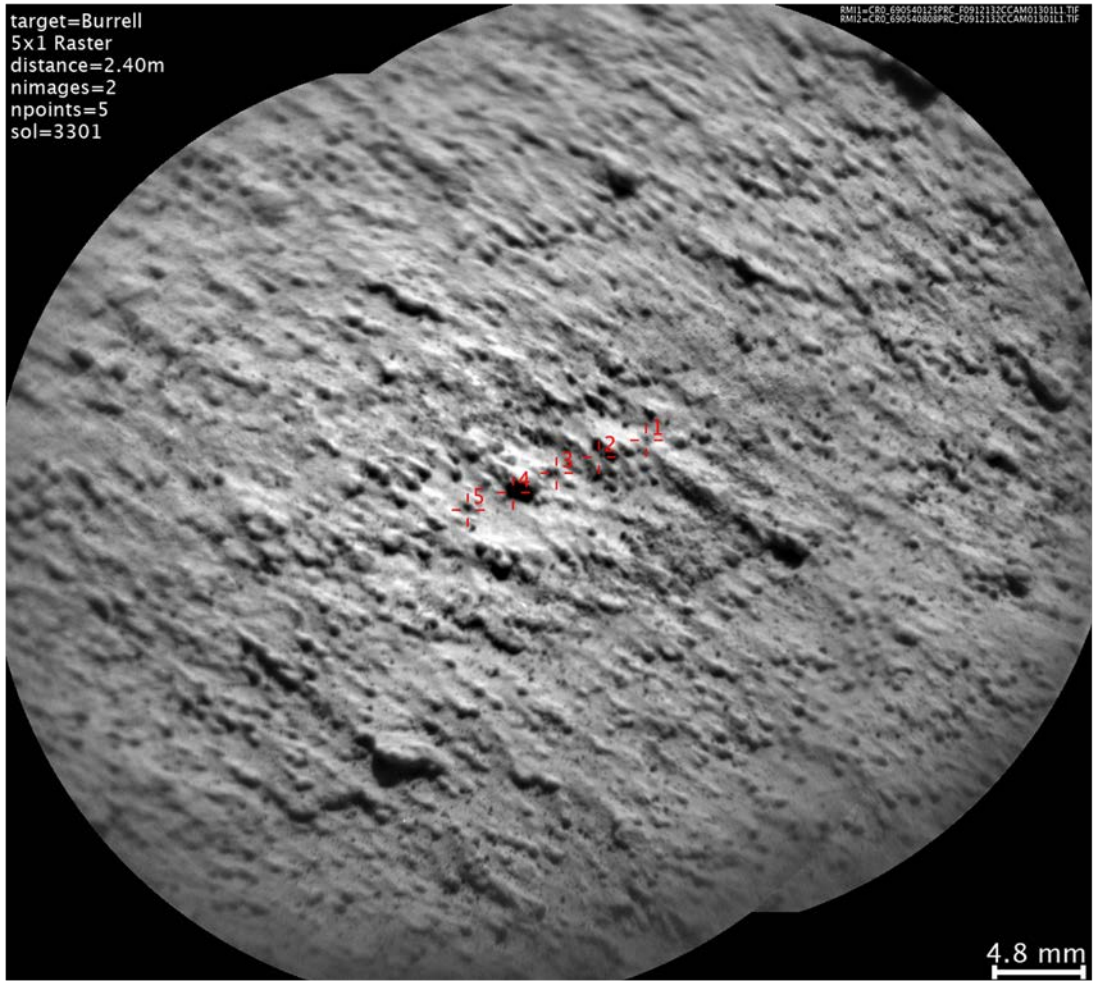


# Target: Burrell

**Sol:** 3301
**Elev (m.):** -3990.82767977657
**CCAM Sequence ID:** CCAM01301

**Whole Target Classification:** Bedrock
**Lamination Strength:** Weakly Laminated
**Lamination Expression:** Laminae-Parallel Nodules
**Grain Visibility:** Below RMI Image Resolution
**Bedrock Appearance:** Dull
**Nodule Presence:** Pervasive (>50% by Visual Inspection)
**Nodule Diameter:** Small (<1 mm)
**Nodule Resistance:** Protruding
**Fracture Presence:** Occasional (<10% by Visual Inspection)

| # | Feature | SiO2 (wt%) | TiO2 (wt%) | Al2O3 (wt%) | FeOT (wt%) | MgO (wt%) | CaO (wt%) | Na2O (wt%) | K2O (wt%) | Sum of Oxides (wt%) |
|---|---|---|---|---|---|---|---|---|---|---|
| 1 | Nodule | 54.1 | 0.96 | 12.5 | 18.8 | 5 | 2.9 | 2.59 | 0.84 | 97.67 |
| 2 | Nodule | 55.6 | 0.97 | 10.8 | 17.5 | 5.3 | 3.1 | 2.63 | 1.01 | 96.95 |
| 3 | Nodule | 50.8 | 0.92 | 11.6 | 18.9 | 4.2 | 2.4 | 2.52 | 0.83 | 92.18 |
| 4 | Nodule | 38.1 | 0.72 | 8.5 | 34.4 | 2.7 | 1.9 | 2.06 | 0.42 | 88.85 |
| 5 | Nodule | 47.2 | 0.88 | 10.1 | 16.8 | 13.3 | 2.7 | 1.98 | 0.57 | 93.5 |

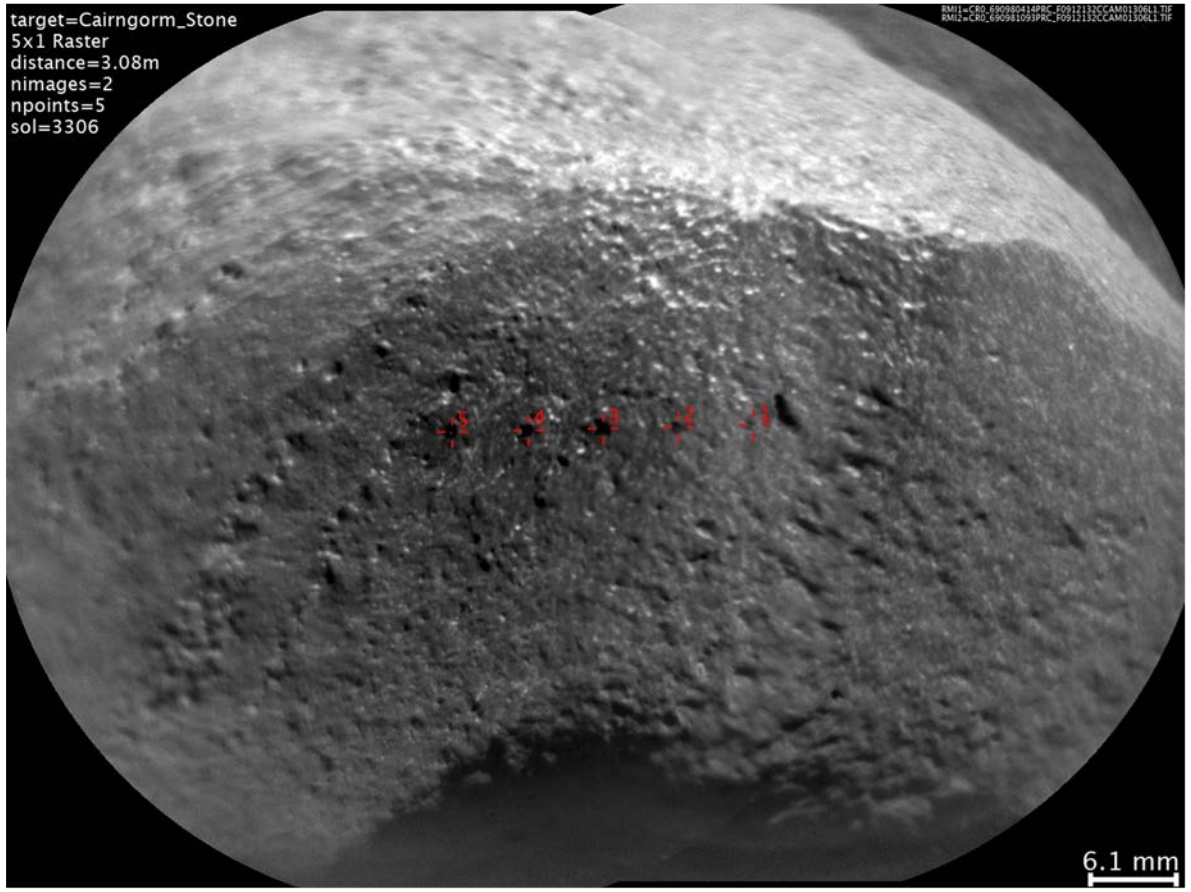


# Target: Cairngorm_Stone

**Sol:** 3306
**Elev (m.):** -3990.52945239818
**CCAM Sequence ID:** CCAM01306

**Whole Target Classification:** Float
**Lamination Strength:** Absent
**Lamination Expression:** Absent
**Grain Visibility:** Below RMI Image Resolution
**Bedrock Appearance:** Dull
**Nodule Presence:** Absent
**Nodule Diameter:** Absent
**Nodule Resistance:** Absent
**Fracture Presence:** Absent

| # | Feature | SiO2 (wt%) | TiO2 (wt%) | Al2O3 (wt%) | FeOT (wt%) | MgO (wt%) | CaO (wt%) | Na2O (wt%) | K2O (wt%) | Sum of Oxides (wt%) |
|---|---|---|---|---|---|---|---|---|---|---|
| 1 | Bedrock | 48 | 1.24 | 15 | 19.7 | 7.1 | 4.2 | 3.28 | 0.87 | 99.4 |
| 2 | Bedrock | 48.7 | 0.91 | 9.8 | 20 | 11.2 | 5.2 | 2.74 | 0.68 | 99.34 |
| 3 | Bedrock | 43.9 | 1.66 | 8.9 | 19.5 | 7.6 | 6.9 | 2.25 | 0.52 | 91.2 |
| 4 | Bedrock | 45 | 1.2 | 7.9 | 20.4 | 9.9 | 6.4 | 2.17 | 0.52 | 93.46 |
| 5 | Bedrock | 47.2 | 0.86 | 9 | 19 | 9 | 8.1 | 2.52 | 0.47 | 96.14 |



# Target: aegis_post_3305a

**Sol:** 3303
**Elev (m.):** -3990.59516696285
**CCAM Sequence ID:** CCAM02303

**Whole Target Classification:** Unconsolidated (Sand/Soil/Pebbles)
**Lamination Strength:** Absent
**Lamination Expression:** Absent
**Grain Visibility:** Below RMI Image Resolution
**Bedrock Appearance:** Dull
**Nodule Presence:** Absent
**Nodule Diameter:** Absent
**Nodule Resistance:** Absent
**Fracture Presence:** Absent

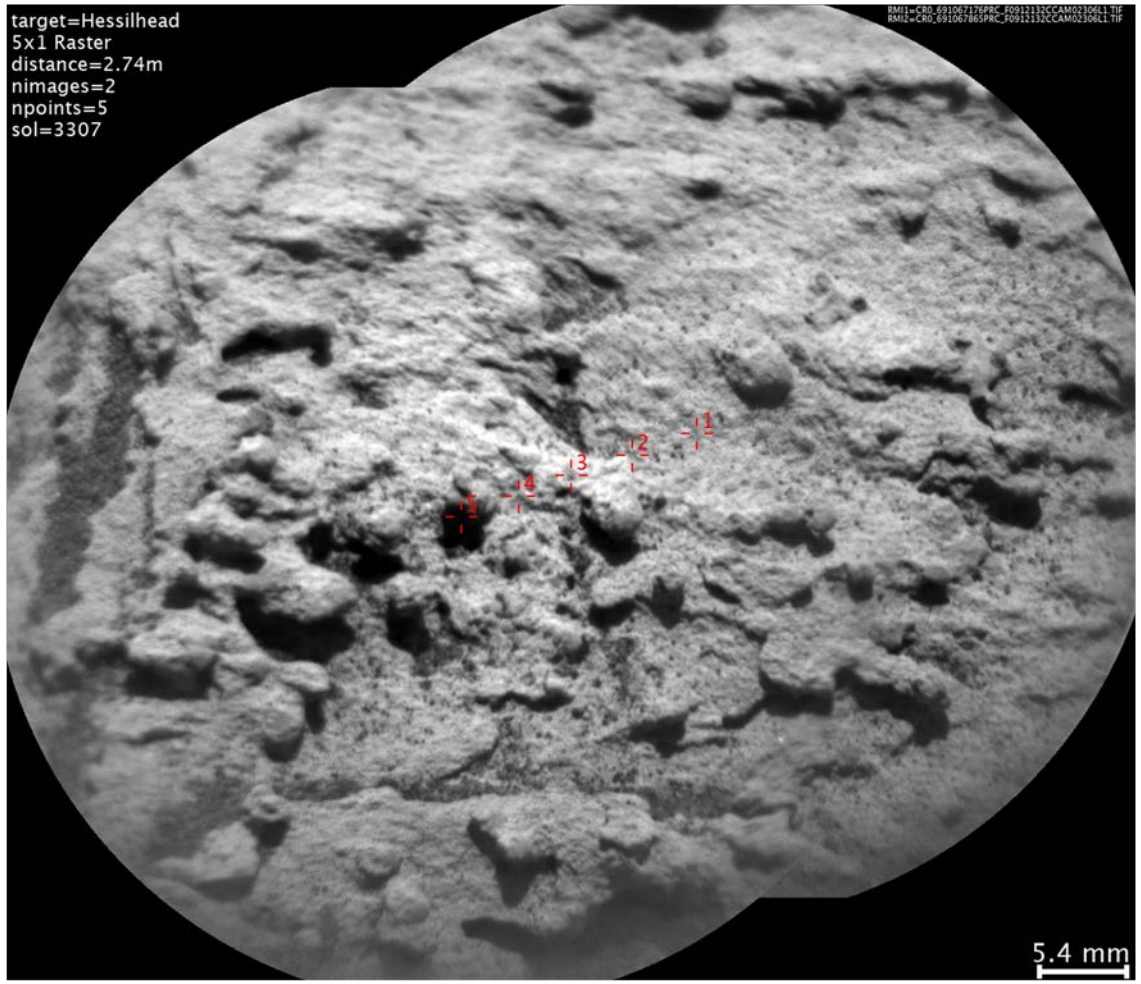
| # | Feature | SiO2 (wt%) | TiO2 (wt%) | Al2O3 (wt%) | FeOT (wt%) | MgO (wt%) | CaO (wt%) | Na2O (wt%) | K2O (wt%) | Sum of Oxides (wt%) |
|---|---|---|---|---|---|---|---|---|---|---|
| 1 | Sand | 43.1 | 0.89 | 9.1 | 19.3 | 7.8 | 7.1 | 1.86 | 0.27 | 89.31 |
| 2 | Sand | 42.9 | 0.97 | 9.2 | 19.4 | 7.7 | 7.3 | 1.77 | 0.2 | 89.49 |
| 3 | Bedrock | 24.4 | 0.56 | 3.5 | 6.9 | 2.8 | 26.2 | 0.51 | 0.13 | 64.95 |
| 4 | Sand | 40.7 | 0.84 | 8.5 | 23.5 | 4.1 | 7.7 | 1.6 | 0.29 | 87.3 |
| 5 | Bedrock | 43.9 | 0.84 | 10.1 | 29.9 | 3 | 2 | 2.6 | 0.53 | 92.82 |

# Target: Hessilhead

**Sol:** 3306
**Elev (m.):** -3990.9323533015
**CCAM Sequence ID:** CCAM02306

**Whole Target Classification:** Bedrock
**Lamination Strength:** Absent
**Lamination Expression:** Absent
**Grain Visibility:** Below RMI Image Resolution
**Bedrock Appearance:** Dull
**Nodule Presence:** Pervasive (>50% by Visual Inspection)
**Nodule Diameter:** Large (>3 mm)
**Nodule Resistance:** Protruding
**Fracture Presence:** Absent

| # | Feature | SiO2 (wt%) | TiO2 (wt%) | Al2O3 (wt%) | FeOT (wt%) | MgO (wt%) | CaO (wt%) | Na2O (wt%) | K2O (wt%) | Sum of Oxides (wt%) |
|---|---|---|---|---|---|---|---|---|---|---|
| 1 | Bedrock | 43.6 | 1.14 | 8.3 | 16.7 | 4.9 | 12 | 2.2 | 0.48 | 89.37 |
| 2 | Bedrock | 42.9 | 0.69 | 10 | 13.1 | 3.3 | 19.9 | 2.02 | 0.76 | 92.64 |
| 3 | Bedrock | 43.6 | 1.14 | 9.4 | 14.6 | 3.8 | 14.3 | 1.7 | 0.62 | 89.1 |
| 4 | Bedrock | 37.9 | 0.68 | 7.7 | 14.6 | 3.2 | 20.7 | 1.29 | 0.35 | 86.58 |
| 5 | Nodule | 45.1 | 0.72 | 8.5 | 15.7 | 3.2 | 10 | 7.69 | 0.49 | 91.48 |

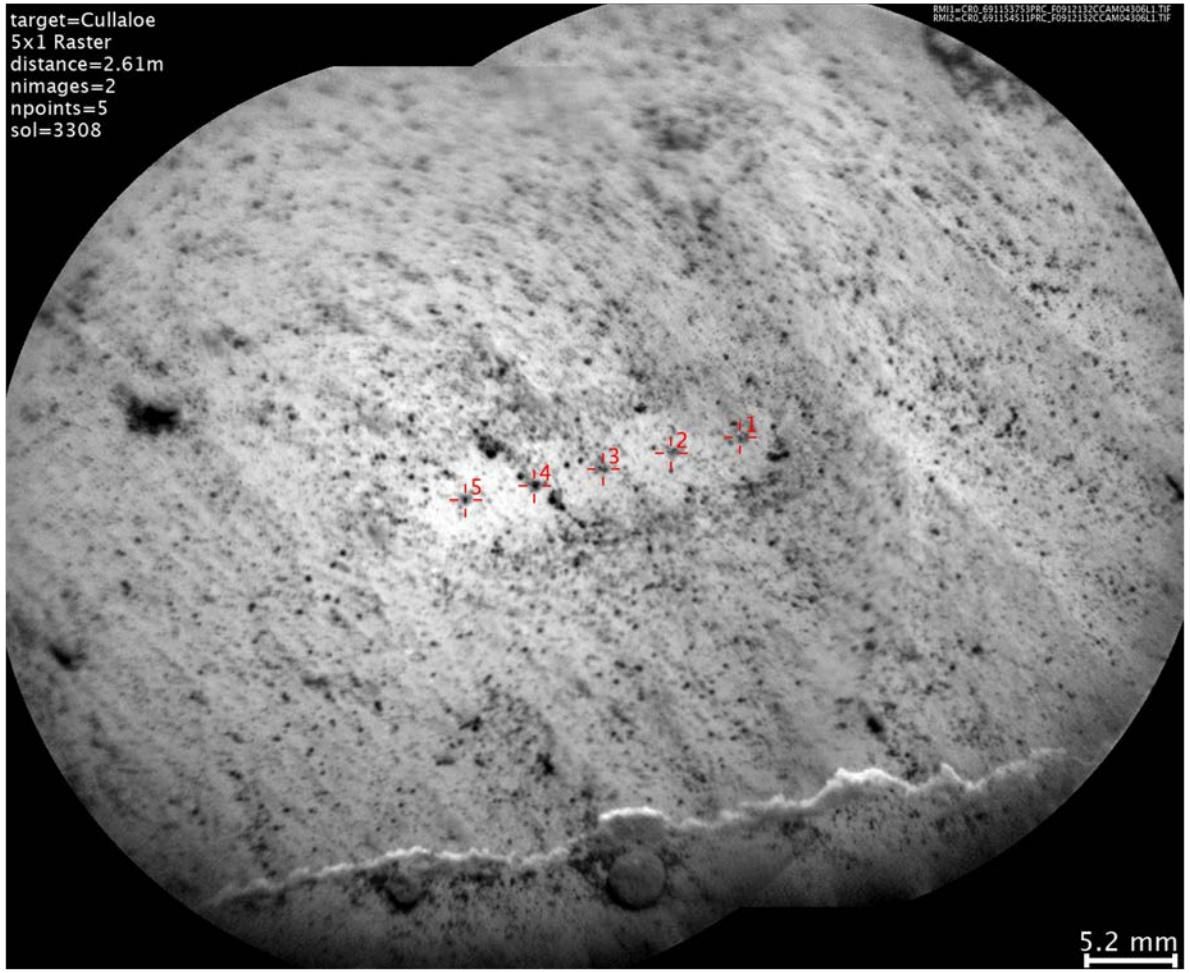


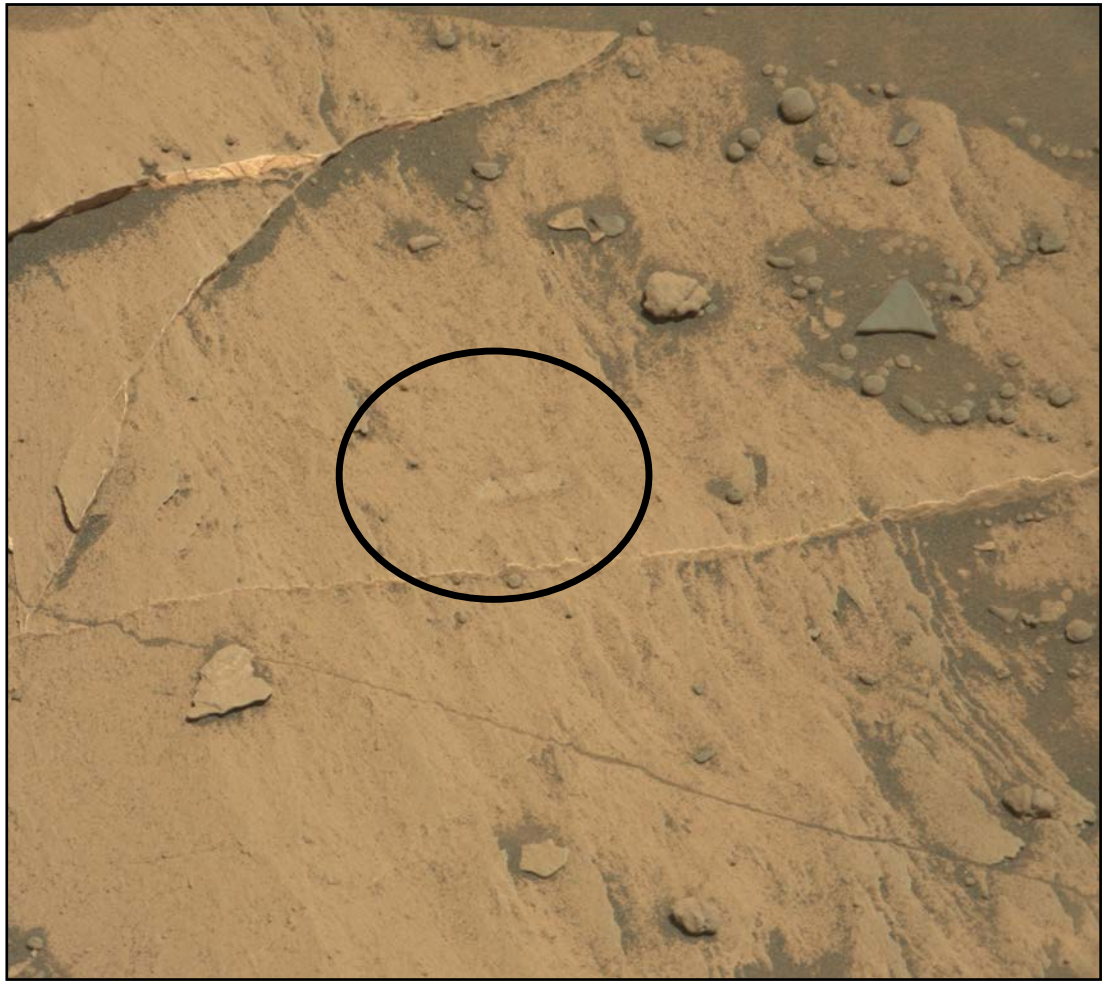
# Target: Cullaloe

**Sol:** 3306
**Elev (m.):** -3990.71139977451
**CCAM Sequence ID:** CCAM04306

**Whole Target Classification:** Bedrock
**Lamination Strength:** Weakly Laminated
**Lamination Expression:** Primary Stratification
**Grain Visibility:** Below RMI Image Resolution
**Bedrock Appearance:** Dull
**Nodule Presence:** Absent
**Nodule Diameter:** Absent
**Nodule Resistance:** Absent
**Fracture Presence:** Occasional (<10% by Visual Inspection)

| # | Feature | SiO2 (wt%) | TiO2 (wt%) | Al2O3 (wt%) | FeOT (wt%) | MgO (wt%) | CaO (wt%) | Na2O (wt%) | K2O (wt%) | Sum of Oxides (wt%) |
|---|---|---|---|---|---|---|---|---|---|---|
| 1 | Bedrock | 36.8 | 0.74 | 7.8 | 15.7 | 3 | 18.4 | 1.2 | 0.31 | 83.88 |
| 2 | Bedrock | 45.4 | 0.82 | 8.2 | 16 | 4.1 | 13.1 | 1.56 | 0.5 | 89.55 |
| 3 | Bedrock | 48.3 | 0.99 | 12 | 19.5 | 3.3 | 4.1 | 2.57 | 0.86 | 91.6 |
| 4 | Bedrock | 51.5 | 0.99 | 11.9 | 20 | 4.1 | 2.9 | 2.64 | 0.92 | 94.88 |
| 5 | Bedrock | 55.2 | 1.04 | 12.8 | 19.5 | 4.9 | 3.1 | 2.65 | 0.95 | 100.18 |



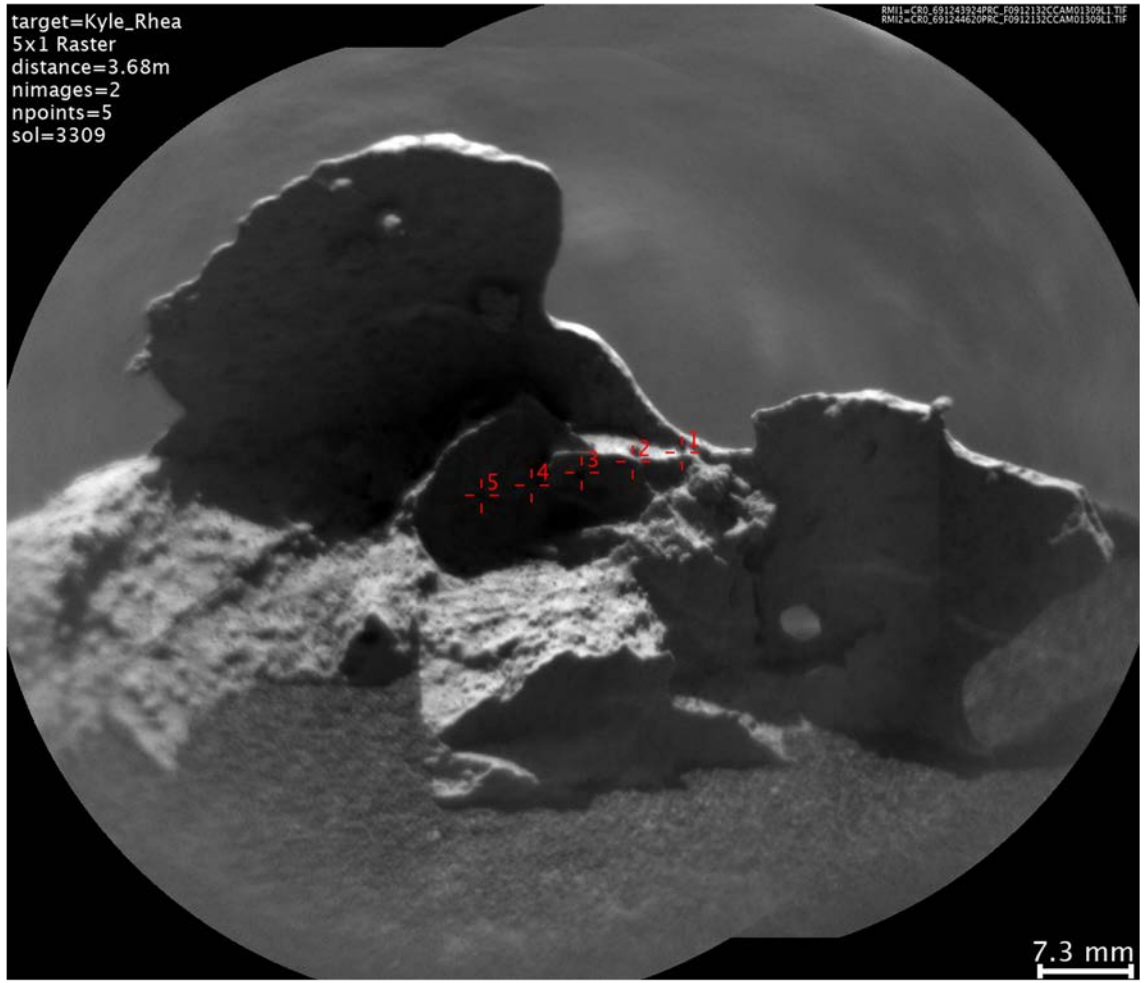



# Target: Kyle_Rhea

**Sol:** 3309
**Elev (m.):** -3991.39253006871
**CCAM Sequence ID:** CCAM01309

**Whole Target Classification:** Bedrock
**Lamination Strength:** Unclear
**Lamination Expression:** Absent
**Grain Visibility:** Unclear
**Bedrock Appearance:** Dull
**Nodule Presence:** Absent
**Nodule Diameter:** Small (<1 mm)
**Nodule Resistance:** Protruding
**Fracture Presence:** Common (~10-20% by Visual Inspection)

| # | Feature | SiO2 (wt%) | TiO2 (wt%) | Al2O3 (wt%) | FeOT (wt%) | MgO (wt%) | CaO (wt%) | Na2O (wt%) | K2O (wt%) | Sum of Oxides (wt%) |
|---|---|---|---|---|---|---|---|---|---|---|
| 1 | Vein or Fracture | 52.9 | 0.94 | 13.2 | 21 | 4.8 | 4.7 | 2.59 | 1.08 | 101.29 |
| 2 | Vein or Fracture | 36.1 | 0.68 | 7.2 | 11.6 | 2.7 | 24.9 | 0.93 | 0.4 | 84.39 |
| 3 | Vein or Fracture | 37 | 0.67 | 7.5 | 12.9 | 2.8 | 23.4 | 1.03 | 0.43 | 85.81 |
| 4 | Vein or Fracture | 23.4 | 0.61 | 4.3 | 9.8 | 2.6 | 28.8 | 0.5 | 0.13 | 70.12 |
| 5 | Vein or Fracture | 29.7 | 0.62 | 5.8 | 11.2 | 2.6 | 27.4 | 0.65 | 0.22 | 78.25 |

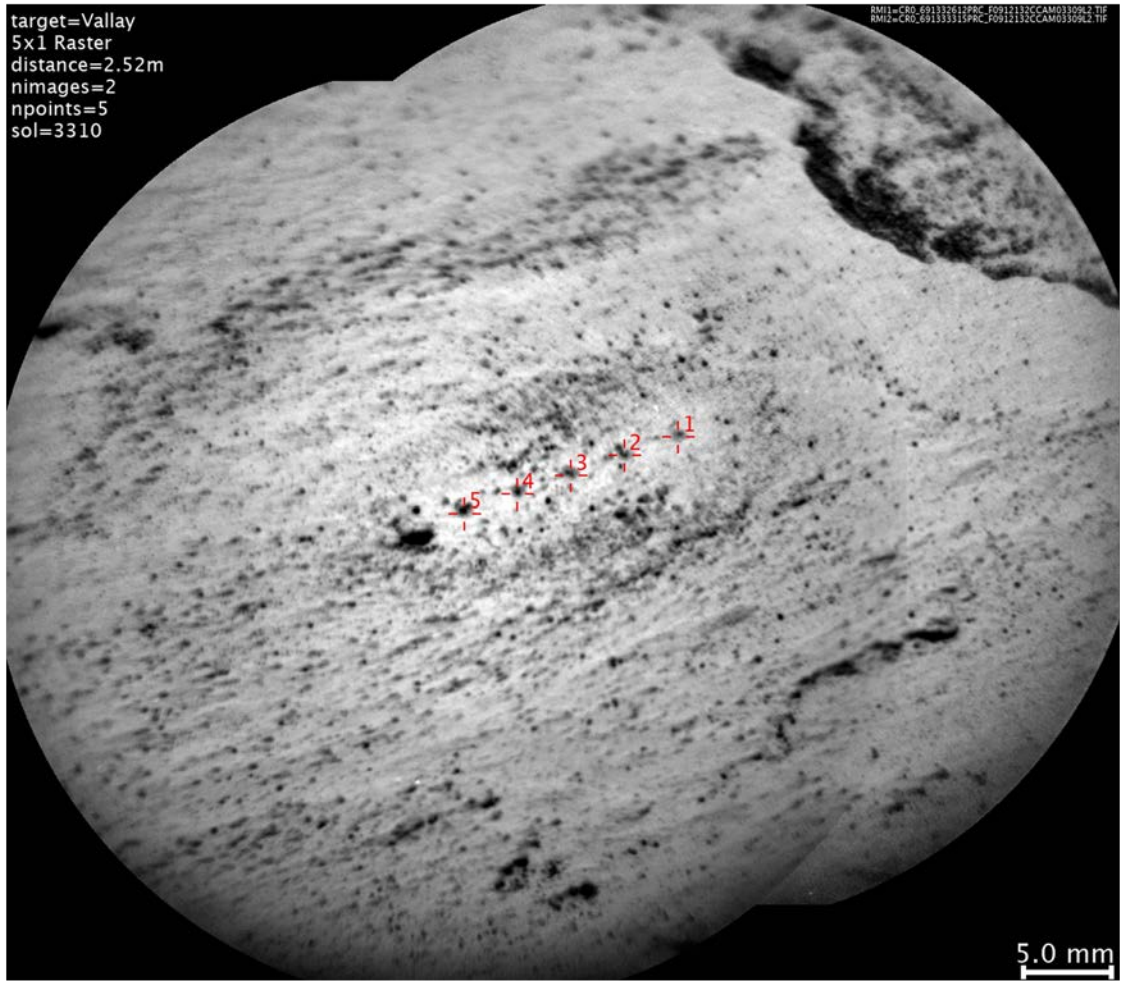


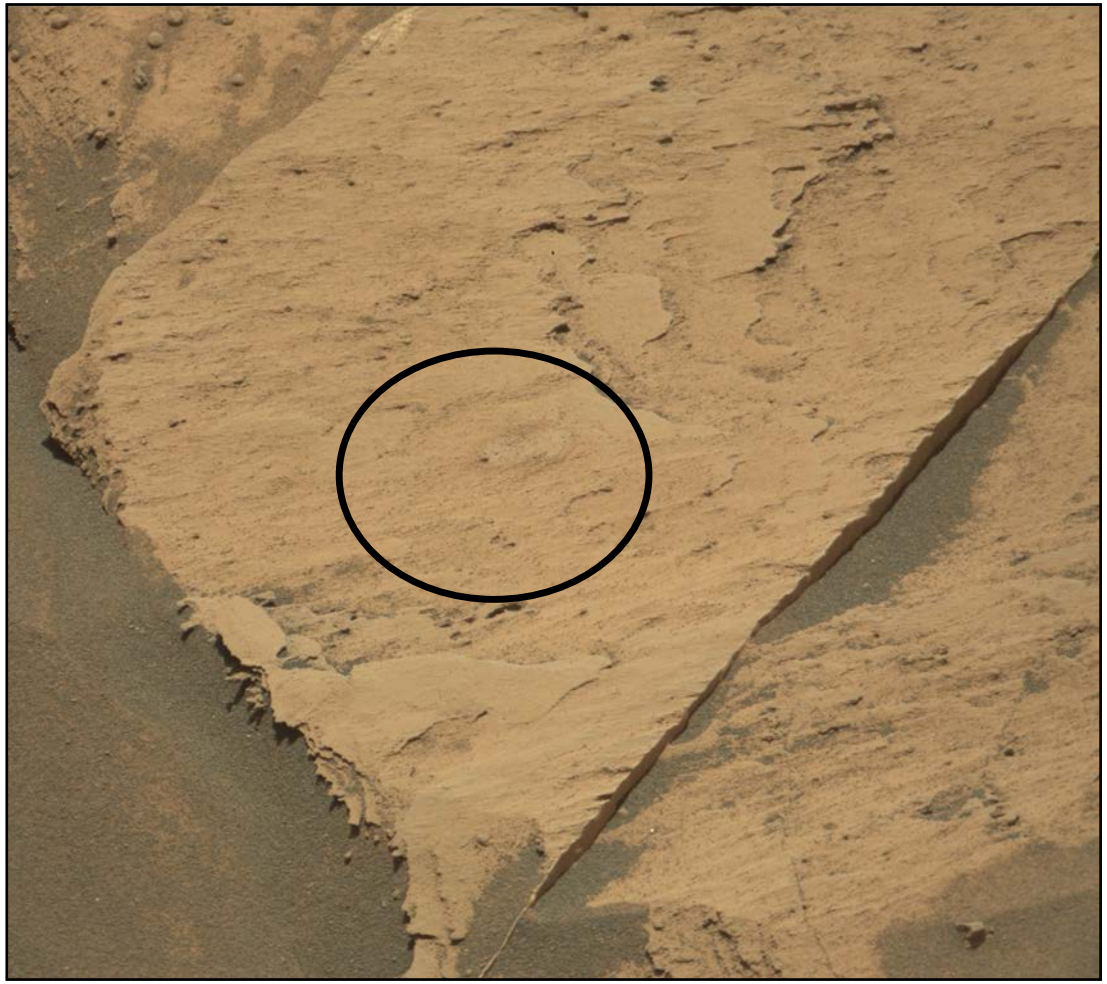
# Target: Vallay

**Sol:** 3309
**Elev (m.):** -3991.01994975521
**CCAM Sequence ID:** CCAM03309

**Whole Target Classification:** Bedrock
**Lamination Strength:** Weakly Laminated
**Lamination Expression:** Laminae-Parallel Nodules
**Grain Visibility:** Below RMI Image Resolution
**Bedrock Appearance:** Dull
**Nodule Presence:** Occasional (~10% by Visual Inspection)
**Nodule Diameter:** Small (<1 mm)
**Nodule Resistance:** Protruding
**Fracture Presence:** Occasional (<10% by Visual Inspection)

| # | Feature | SiO2 (wt%) | TiO2 (wt%) | Al2O3 (wt%) | FeOT (wt%) | MgO (wt%) | CaO (wt%) | Na2O (wt%) | K2O (wt%) | Sum of Oxides (wt%) |
|---|---|---|---|---|---|---|---|---|---|---|
| 1 | Bedrock | 40.3 | 0.89 | 6.9 | 13.4 | 3.6 | 16.4 | 1.25 | 0.45 | 83.11 |
| 2 | Bedrock | 51.5 | 0.93 | 11.7 | 19.3 | 4.7 | 5.2 | 2.32 | 0.83 | 96.44 |
| 3 | Bedrock | 54 | 0.97 | 11 | 20.2 | 5 | 2.7 | 2.47 | 0.89 | 97.27 |
| 4 | Bedrock | 53.5 | 0.91 | 10.9 | 20.9 | 5.2 | 2.1 | 2.48 | 0.92 | 97.05 |
| 5 | Bedrock | 52.9 | 0.95 | 11.9 | 18.3 | 5.3 | 5.1 | 2.41 | 0.91 | 97.72 |



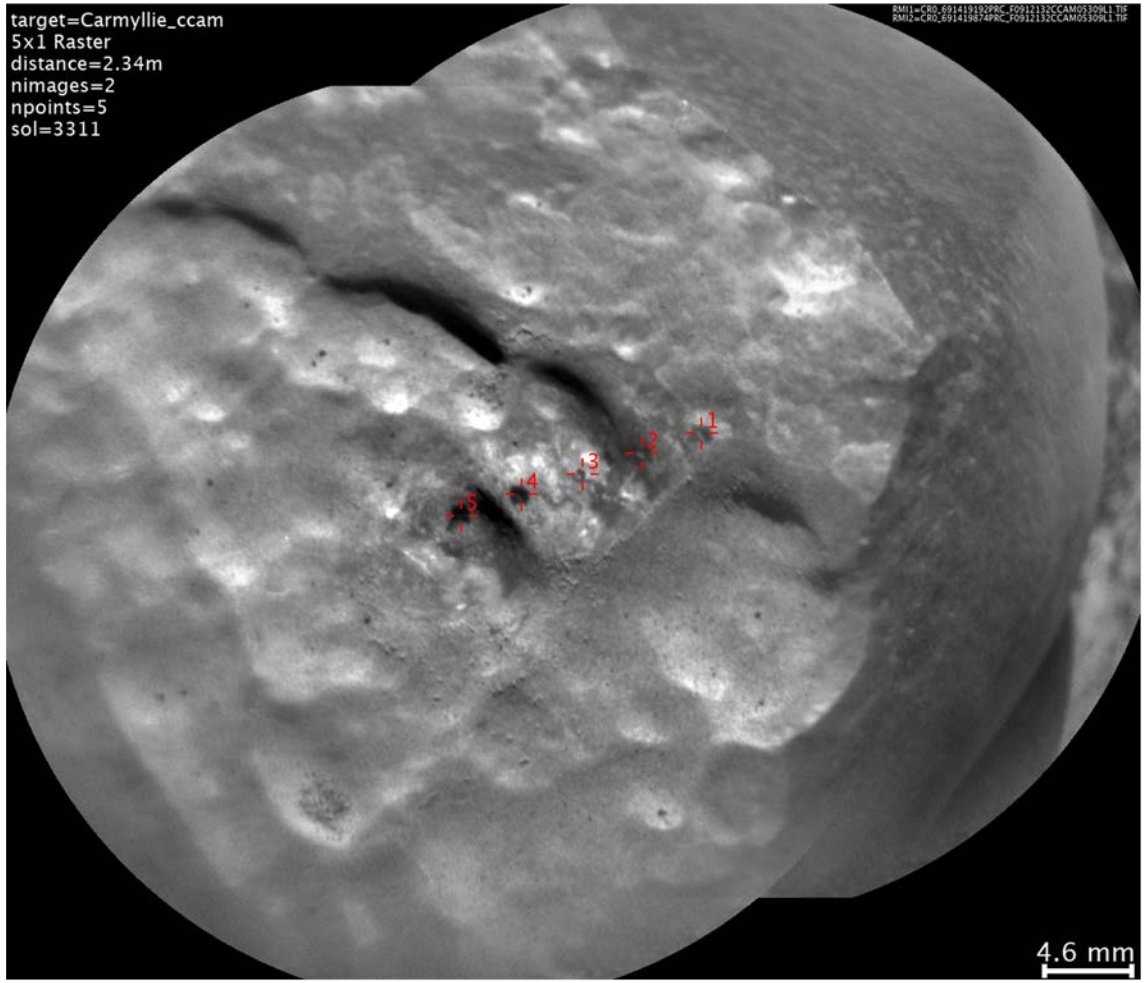



# Target: Carmyllie_ccam

**Sol:** 3309
**Elev (m.):** -3991.01338866819
**CCAM Sequence ID:** CCAM05309

**Whole Target Classification:** Float
**Lamination Strength:** Absent
**Lamination Expression:** Absent
**Grain Visibility:** Below RMI Image Resolution
**Bedrock Appearance:** Dull
**Nodule Presence:** Absent
**Nodule Diameter:** Absent
**Nodule Resistance:** Absent
**Fracture Presence:** Absent

| # | Feature | SiO2 (wt%) | TiO2 (wt%) | Al2O3 (wt%) | FeOT (wt%) | MgO (wt%) | CaO (wt%) | Na2O (wt%) | K2O (wt%) | Sum of Oxides (wt%) |
|---|---|---|---|---|---|---|---|---|---|---|
| 1 | Bedrock | 38.6 | 1.33 | 8 | 22.1 | 9.6 | 2.5 | 2.74 | 0.47 | 85.33 |
| 2 | Bedrock | 39.7 | 1.25 | 7.7 | 21.6 | 6.5 | 4.5 | 2.7 | 0.53 | 84.5 |
| 3 | Bedrock | 37.6 | 1.11 | 7.5 | 24.2 | 6.7 | 5.2 | 2.66 | 0.56 | 85.46 |
| 4 | Bedrock | 39.9 | 1.22 | 8.7 | 21.4 | 8 | 3.9 | 2.63 | 0.5 | 86.17 |
| 5 | Bedrock | 42.1 | 1.63 | 8.9 | 20.5 | 7.7 | 4.3 | 2.75 | 0.63 | 88.53 |



**Sol:** 3312

# Target: Zechstein_drill_hole_ccam_2 **Elev (m.):** -3990.77316838336

**CCAM Sequence ID:** CCAM01312

**Whole Target Classification:** Bedrock
**Lamination Strength:** Moderately Laminated
**Lamination Expression:** Absent
**Grain Visibility:** Below RMI Image Resolution
**Bedrock Appearance:** Dull
**Nodule Presence:** Absent
**Nodule Diameter:** Absent
**Nodule Resistance:** Absent
**Fracture Presence:** Common (~10-20% by Visual Inspection)

| # | Feature | SiO2 (wt%) | TiO2 (wt%) | Al2O3 (wt%) | FeOT (wt%) | MgO (wt%) | CaO (wt%) | Na2O (wt%) | K2O (wt%) | Sum of Oxides (wt%) |
|---|---|---|---|---|---|---|---|---|---|---|
| 1 | Bedrock | 55 | 1 | 11 | 19.2 | 5.4 | 2.7 | 2.37 | 0.81 | 97.56 |
| 2 | Bedrock | 43.5 | 0.75 | 8.2 | 17.3 | 3.9 | 11.4 | 1.52 | 0.48 | 87.15 |
| 3 | Bedrock | 35.3 | 0.76 | 6.9 | 14.7 | 3 | 16.7 | 1.16 | 0.36 | 78.89 |
| 4 | Bedrock | 45.6 | 0.82 | 8.5 | 19 | 4.8 | 7.5 | 1.79 | 0.63 | 88.67 |
| 5 | Bedrock | 50 | 1.04 | 8.9 | 17.2 | 4.5 | 6.6 | 1.77 | 0.53 | 90.5 |

# Target: Dutch_Village

**Sol:** 3313
**Elev (m.):** -3989.89599525432
**CCAM Sequence ID:** CCAM01313

**Whole Target Classification:** Bedrock
**Lamination Strength:** Absent
**Lamination Expression:** Absent
**Grain Visibility:** Below RMI Image Resolution
**Bedrock Appearance:** Dull
**Nodule Presence:** Absent
**Nodule Diameter:** Absent
**Nodule Resistance:** Absent
**Fracture Presence:** Common (~10-20% by Visual Inspection)

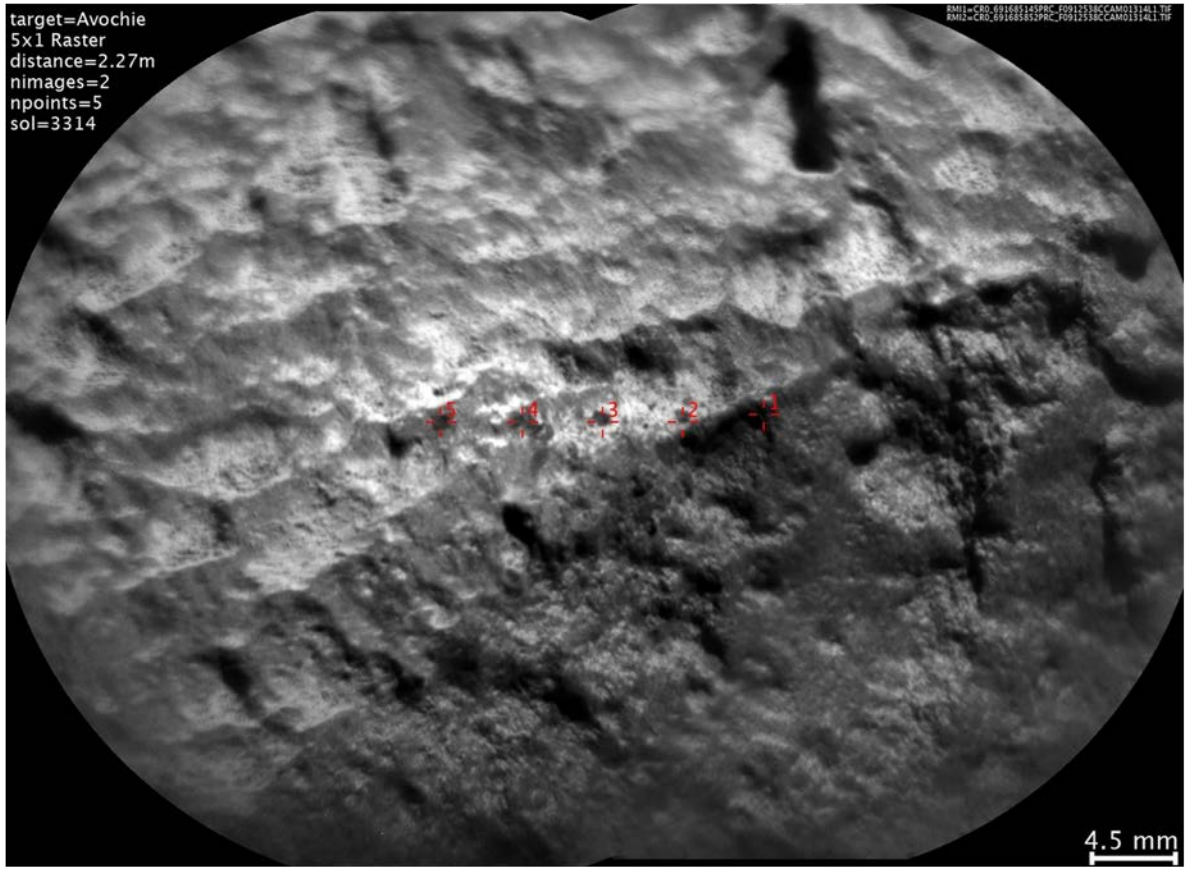
| # | Feature | SiO2 (wt%) | TiO2 (wt%) | Al2O3 (wt%) | FeOT (wt%) | MgO (wt%) | CaO (wt%) | Na2O (wt%) | K2O (wt%) | Sum of Oxides (wt%) |
|---|---|---|---|---|---|---|---|---|---|---|
| 1 | Bedrock | 45.9 | 0.86 | 9.2 | 23.3 | 4.6 | 2.6 | 2.34 | 0.61 | 89.51 |
| 2 | Bedrock | 40.9 | 0.74 | 8.4 | 14.2 | 3.4 | 17 | 1.53 | 0.54 | 86.66 |
| 3 | Bedrock | 39.4 | 0.72 | 8.1 | 16.9 | 3.2 | 16.9 | 1.46 | 0.49 | 87.19 |
| 4 | Bedrock | 38.5 | 0.67 | 7.5 | 14.6 | 3.3 | 18.9 | 1.3 | 0.45 | 85.11 |
| 5 | Bedrock | 40.3 | 0.79 | 8 | 15 | 3.4 | 16.1 | 1.5 | 0.52 | 85.72 |

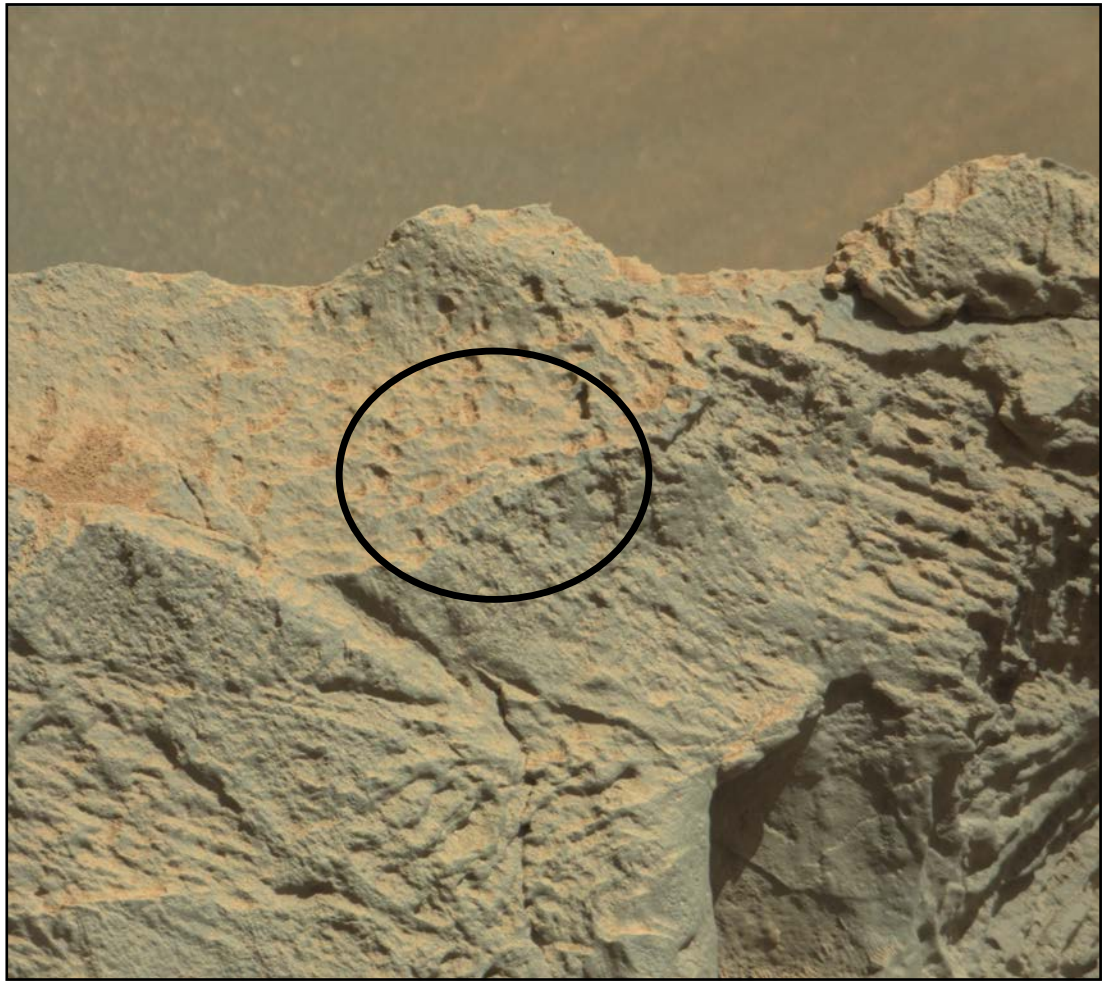
# Target: Avochie

**Sol:** 3314
**Elev (m.):** -3988.20125515367
**CCAM Sequence ID:** CCAM01314

**Whole Target Classification:** Float
**Lamination Strength:** Absent
**Lamination Expression:** Absent
**Grain Visibility:** Below RMI Image Resolution
**Bedrock Appearance:** Dull
**Nodule Presence:** Absent
**Nodule Diameter:** Absent
**Nodule Resistance:** Absent
**Fracture Presence:** Absent

| # | Feature | SiO2 (wt%) | TiO2 (wt%) | Al2O3 (wt%) | FeOT (wt%) | MgO (wt%) | CaO (wt%) | Na2O (wt%) | K2O (wt%) | Sum of Oxides (wt%) |
|---|---|---|---|---|---|---|---|---|---|---|
| 1 | Bedrock | 41.2 | 0.79 | 8.6 | 19.1 | 9.8 | 6.3 | 2.43 | 0.3 | 88.41 |
| 2 | Bedrock | 41.3 | 0.73 | 7.6 | 20.4 | 10.8 | 5.1 | 2.22 | 0.15 | 88.25 |
| 3 | Bedrock | 37.1 | 0.76 | 6.6 | 24.7 | 8.5 | 4 | 1.97 | 0.06 | 83.73 |
| 4 | Bedrock | 39.2 | 0.76 | 6.4 | 21.2 | 11.6 | 4.7 | 1.94 | 0.11 | 85.84 |
| 5 | Bedrock | 39.3 | 0.88 | 9.2 | 22.3 | 6.8 | 6.8 | 2.27 | 0.11 | 87.57 |



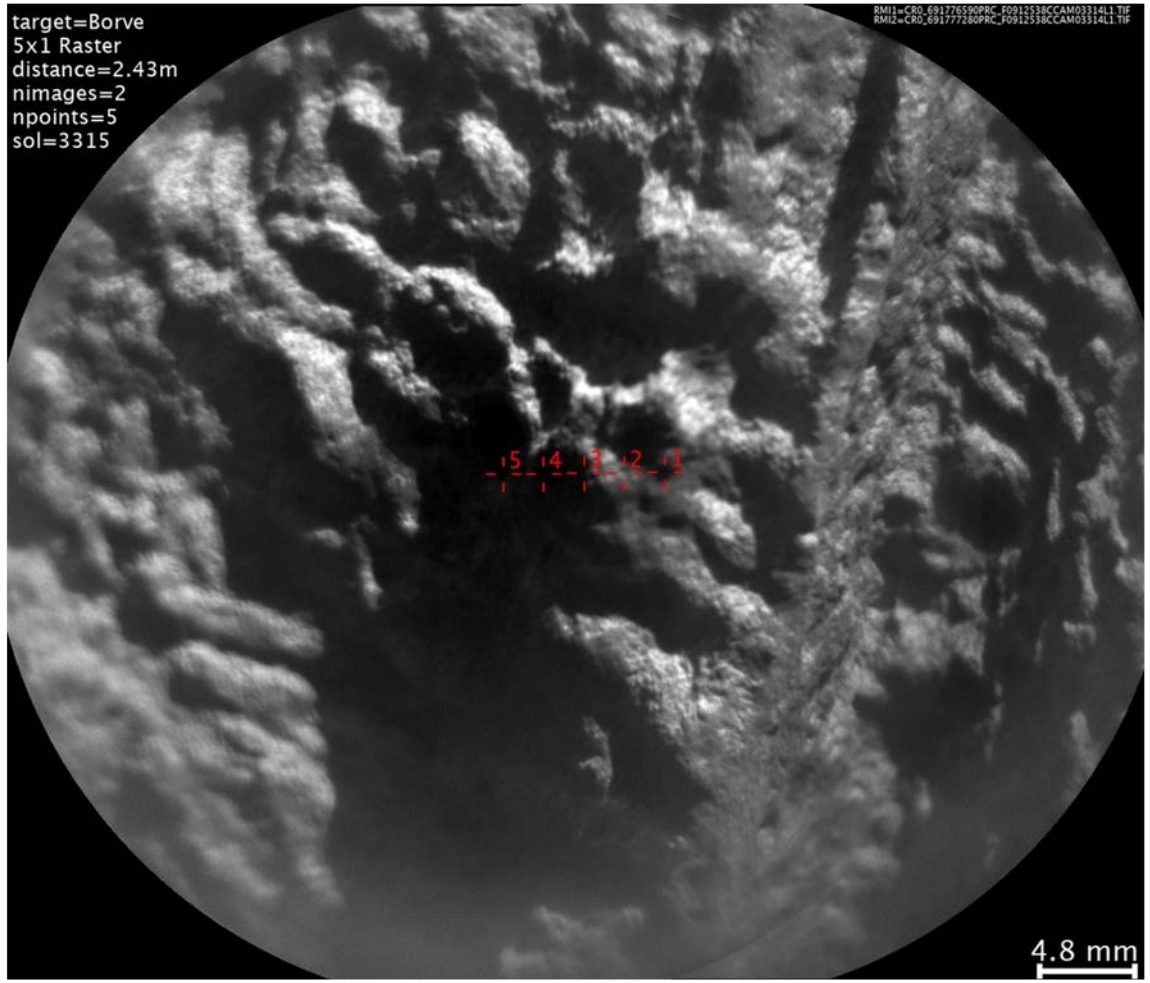



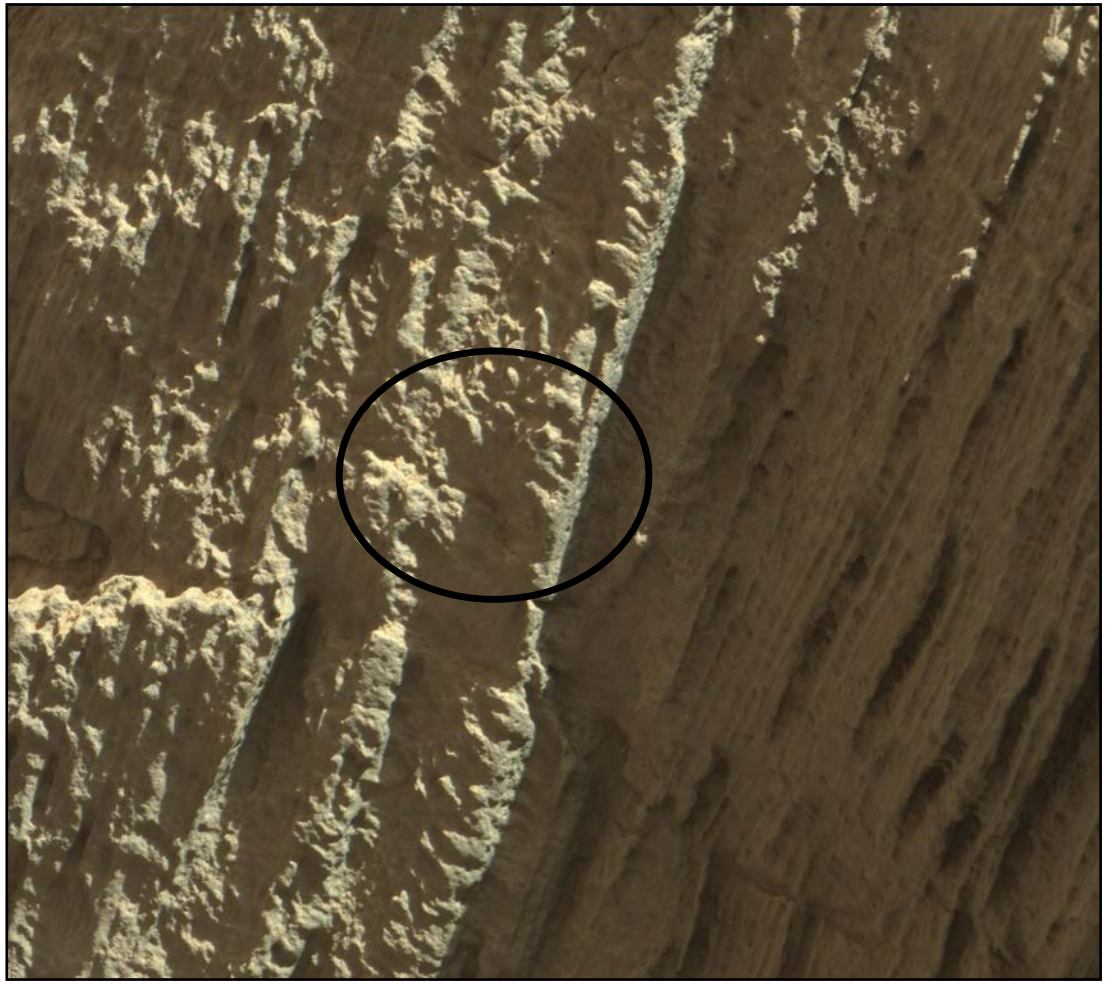
# Target: Borve

**Sol:** 3314
**Elev (m.):** -3988.4469527875
**CCAM Sequence ID:** CCAM03314

**Whole Target Classification:** Float
**Lamination Strength:** Moderately Laminated
**Lamination Expression:** Primary Stratification
**Grain Visibility:** Below RMI Image Resolution
**Bedrock Appearance:** Dull
**Nodule Presence:** Absent
**Nodule Diameter:** Absent
**Nodule Resistance:** Absent
**Fracture Presence:** Absent

| # | Feature | SiO2 (wt%) | TiO2 (wt%) | Al2O3 (wt%) | FeOT (wt%) | MgO (wt%) | CaO (wt%) | Na2O (wt%) | K2O (wt%) | Sum of Oxides (wt%) |
|---|---|---|---|---|---|---|---|---|---|---|
| 1 | Bedrock | 39.5 | 1.04 | 7 | 20.8 | 13 | 5 | 1.74 | 0.13 | 88.3 |
| 2 | Bedrock | 40.6 | 1.02 | 8 | 19.4 | 11.1 | 5.1 | 2 | 0.2 | 87.41 |
| 3 | Bedrock | 43.5 | 0.71 | 6.9 | 17.9 | 10.3 | 7.3 | 1.89 | 0.13 | 88.66 |
| 4 | Bedrock | 41.2 | 0.73 | 6.9 | 20.4 | 14.3 | 4.8 | 1.68 | 0.09 | 90 |
| 5 | Bedrock | 42 | 0.9 | 7.4 | 17.9 | 10.4 | 7.5 | 1.7 | 0.1 | 87.86 |



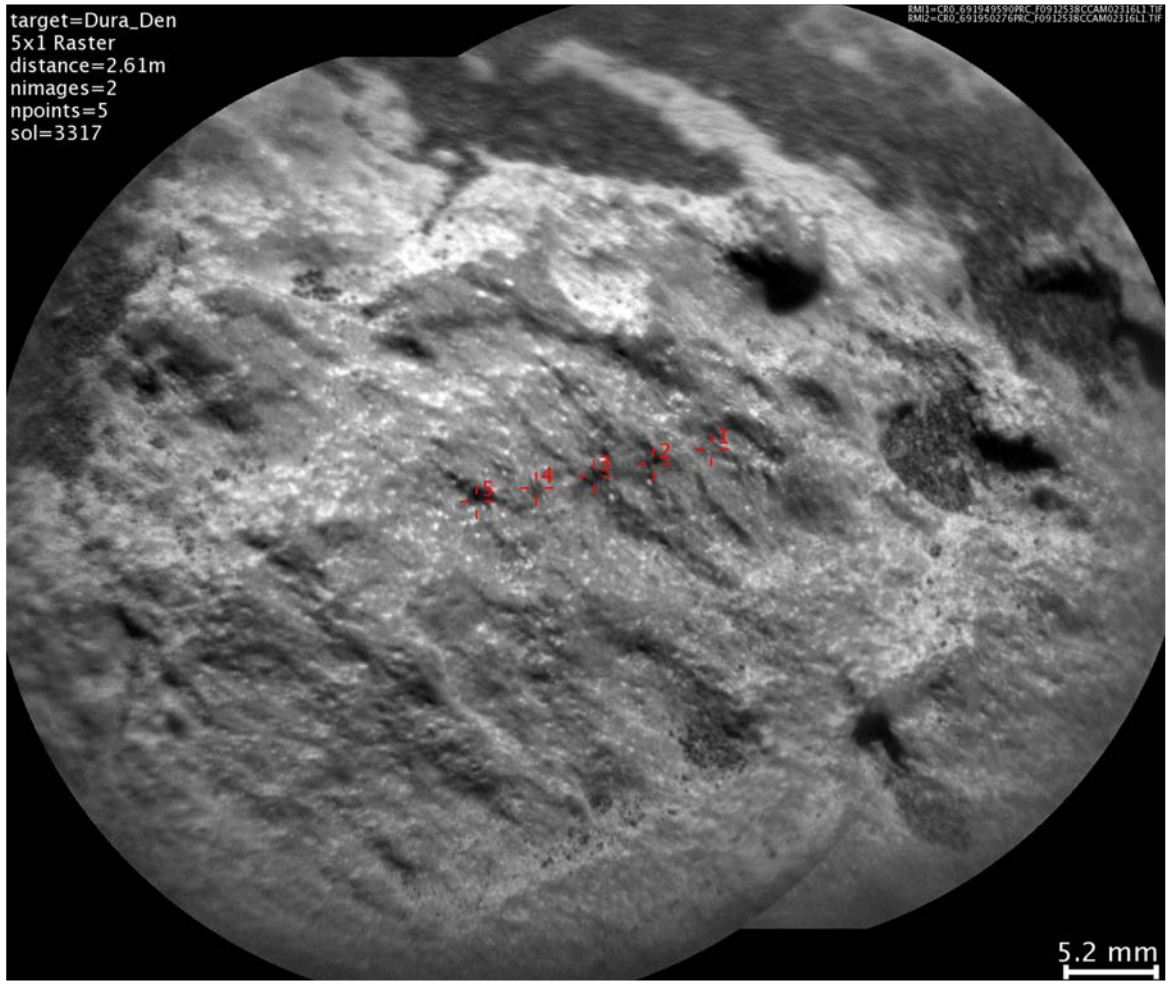



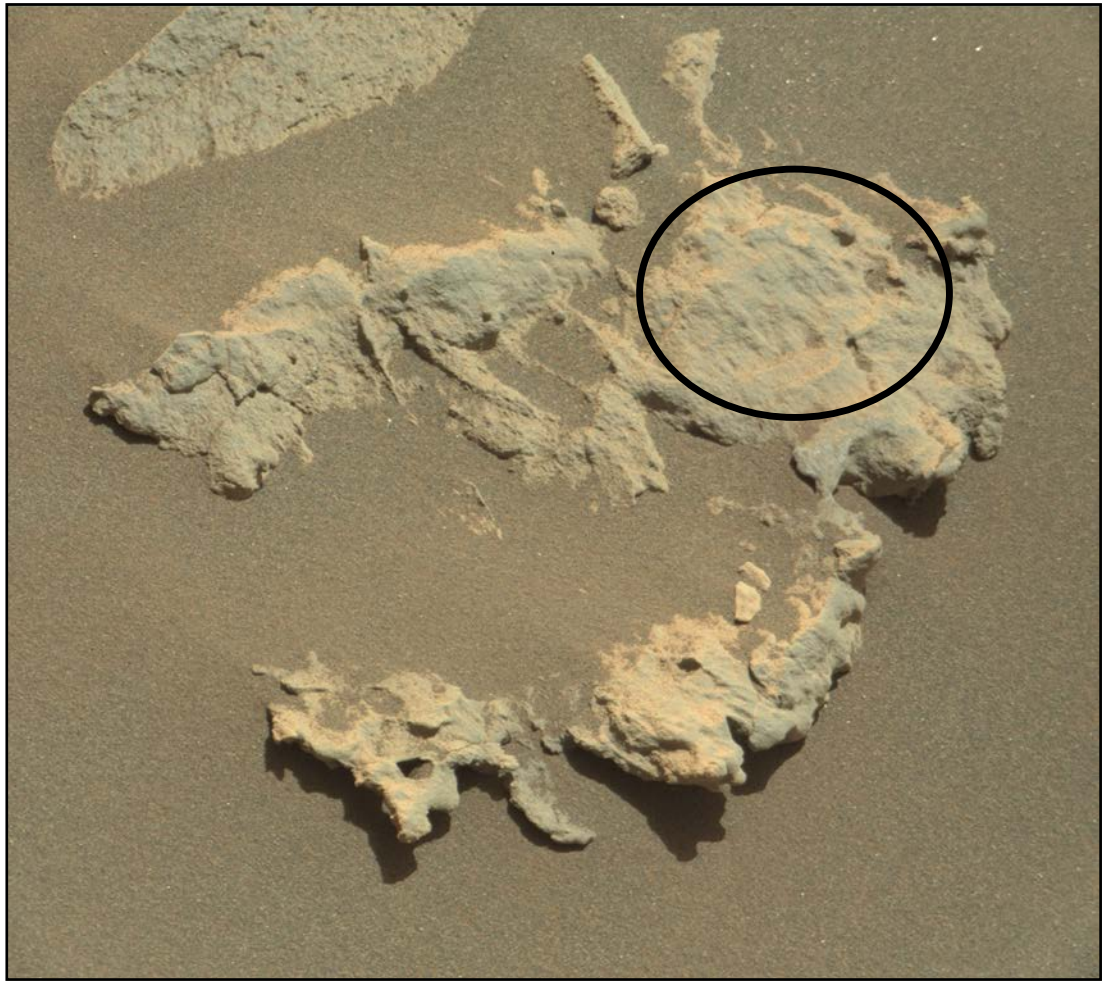
# Target: Dura_Den

**Sol:** 3316
**Elev (m.):** -3988.70649479381
**CCAM Sequence ID:** CCAM02316

**Whole Target Classification:** Float
**Lamination Strength:** Absent
**Lamination Expression:** Absent
**Grain Visibility:** Above RMI Image Resolution
**Bedrock Appearance:** Dull
**Nodule Presence:** Absent
**Nodule Diameter:** Absent
**Nodule Resistance:** Absent
**Fracture Presence:** Occasional (<10% by Visual Inspection)

| # | Feature | SiO2 (wt%) | TiO2 (wt%) | Al2O3 (wt%) | FeOT (wt%) | MgO (wt%) | CaO (wt%) | Na2O (wt%) | K2O (wt%) | Sum of Oxides (wt%) |
|---|---|---|---|---|---|---|---|---|---|---|
| 1 | Bedrock | 44.6 | 0.77 | 10.6 | 19.2 | 7.9 | 6.9 | 3.14 | 0.39 | 93.43 |
| 2 | Bedrock | 43.1 | 0.7 | 10.2 | 18.5 | 8.4 | 7.3 | 3.11 | 0.74 | 92.04 |
| 3 | Bedrock | 41.5 | 0.87 | 7.7 | 19.7 | 11.7 | 6.5 | 2.2 | 0.44 | 90.52 |
| 4 | Bedrock | 42.4 | 0.87 | 7.9 | 20 | 9.5 | 5.6 | 2.67 | 0.7 | 89.68 |
| 5 | Bedrock | 43.1 | 0.76 | 7.1 | 20.3 | 11.8 | 7.5 | 1.87 | 0.24 | 92.68 |



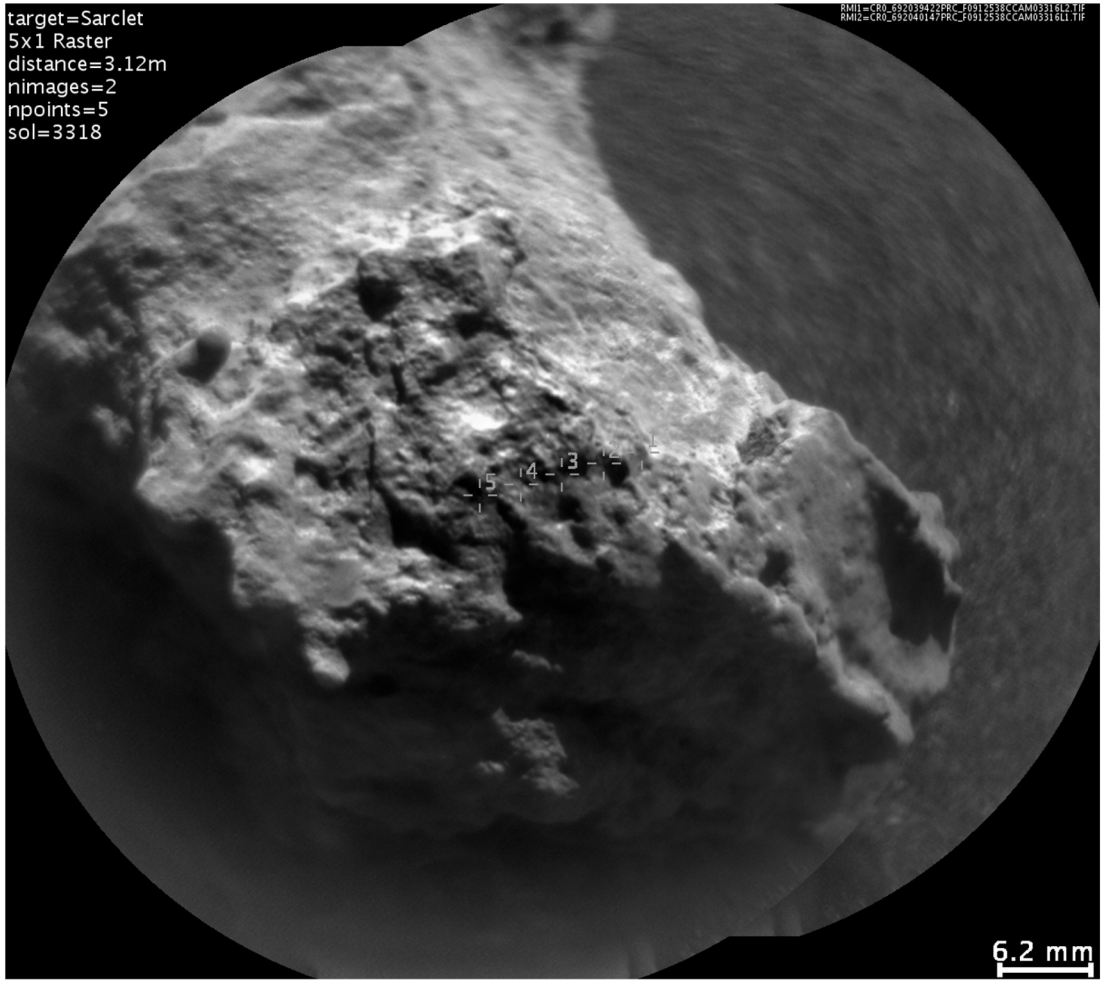



# Target: Sarclet

**Sol:** 3316
**Elev (m.):** -3988.65346169318
**CCAM Sequence ID:** CCAM03316

**Whole Target Classification:** Float
**Lamination Strength:** Absent
**Lamination Expression:** Absent
**Grain Visibility:** Below RMI Image Resolution
**Bedrock Appearance:** Dull
**Nodule Presence:** Occasional (~10% by Visual Inspection)
**Nodule Diameter:** Large (>3 mm)
**Nodule Resistance:** Protruding
**Fracture Presence:** Absent

| # | Feature | SiO2 (wt%) | TiO2 (wt%) | Al2O3 (wt%) | FeOT (wt%) | MgO (wt%) | CaO (wt%) | Na2O (wt%) | K2O (wt%) | Sum of Oxides (wt%) |
|---|---|---|---|---|---|---|---|---|---|---|
| 1 | Bedrock | 43.8 | 0.73 | 9.6 | 20.1 | 9.8 | 5.4 | 2.97 | 0.74 | 93.12 |
| 2 | Bedrock | 43.1 | 0.82 | 9.3 | 19.7 | 11.2 | 6.3 | 2.77 | 0.36 | 93.61 |
| 3 | Bedrock | 44 | 0.82 | 8.6 | 21 | 12.8 | 4.3 | 2.54 | 0.32 | 94.28 |
| 4 | Bedrock | 44.6 | 0.75 | 9.5 | 19.7 | 9.3 | 7.5 | 3.02 | 0.38 | 94.81 |
| 5 | Bedrock | 42.2 | 0.7 | 8.4 | 20.7 | 8.5 | 9.1 | 2.21 | 0.25 | 92.1 |

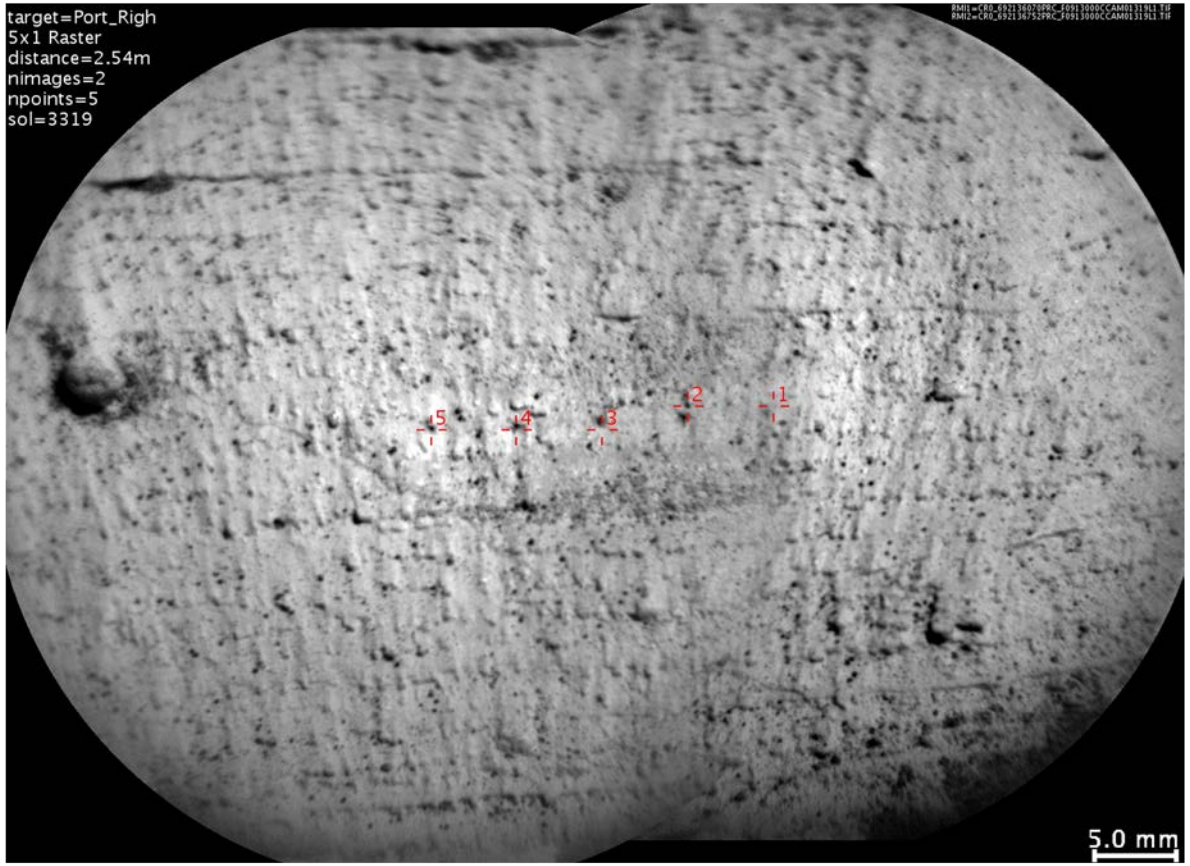


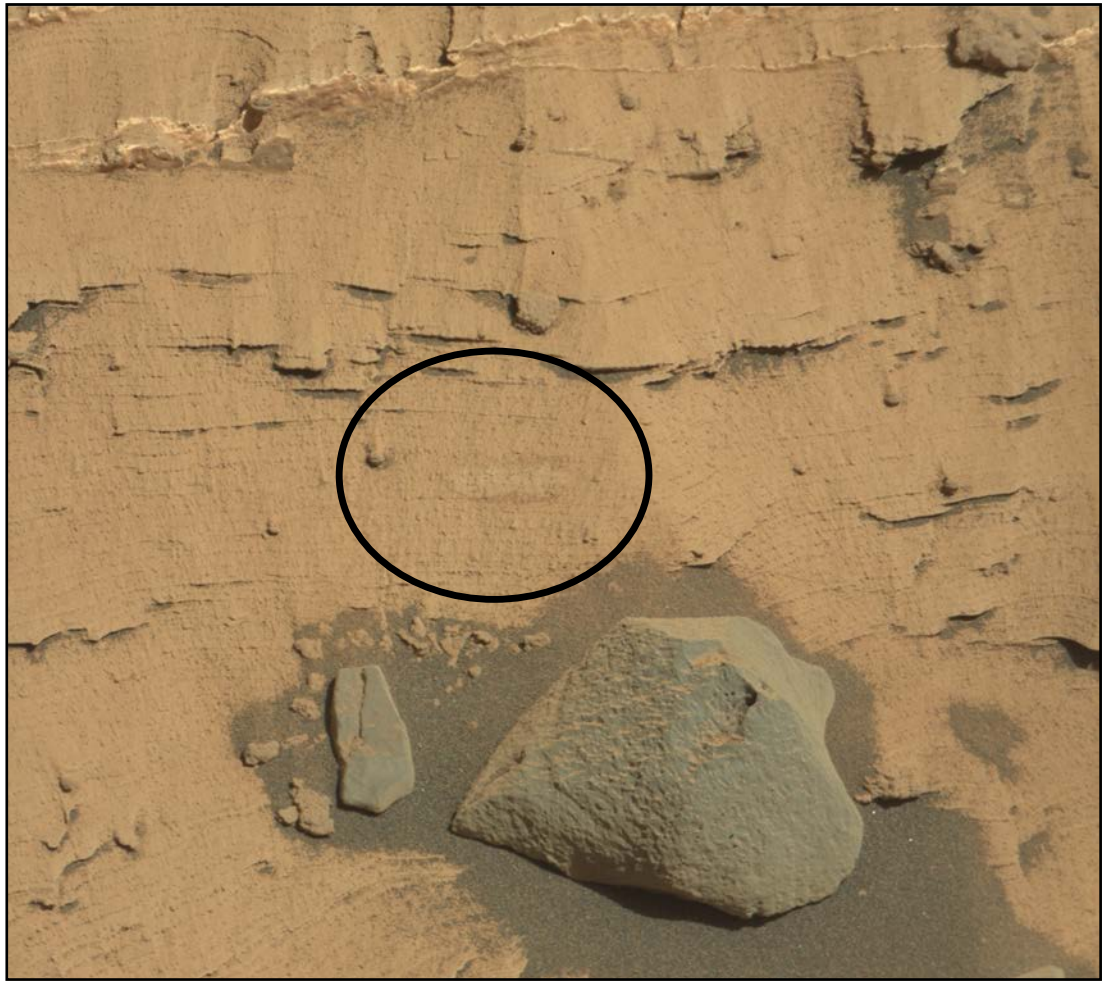
# Target: Port_Righ

**Sol:** 3319
**Elev (m.):** -3983.3737214563
**CCAM Sequence ID:** CCAM01319

**Whole Target Classification:** Bedrock
**Lamination Strength:** Moderately Laminated
**Lamination Expression:** Unclear
**Grain Visibility:** Below RMI Image Resolution
**Bedrock Appearance:** Dull
**Nodule Presence:** Occasional (~10% by Visual Inspection)
**Nodule Diameter:** Small (<1 mm)
**Nodule Resistance:** Protruding
**Fracture Presence:** Absent

| # | Feature | SiO2 (wt%) | TiO2 (wt%) | Al2O3 (wt%) | FeOT (wt%) | MgO (wt%) | CaO (wt%) | Na2O (wt%) | K2O (wt%) | Sum of Oxides (wt%) |
|---|---|---|---|---|---|---|---|---|---|---|
| 1 | Bedrock | 47.1 | 0.87 | 8.6 | 18.2 | 3.7 | 8.5 | 2.16 | 0.87 | 90.04 |
| 2 | Bedrock | 55.5 | 1.05 | 12 | 19.3 | 4.3 | 2.6 | 2.68 | 0.99 | 98.51 |
| 3 | Bedrock | 55.3 | 0.98 | 12.4 | 19.6 | 4 | 2.9 | 3.19 | 1.08 | 99.47 |
| 4 | Bedrock | 46 | 0.81 | 10.6 | 16.7 | 3.5 | 12.1 | 1.89 | 0.63 | 92.32 |
| 5 | Bedrock | 55.7 | 0.97 | 13.2 | 17.6 | 4.4 | 3.9 | 2.83 | 1.07 | 99.74 |

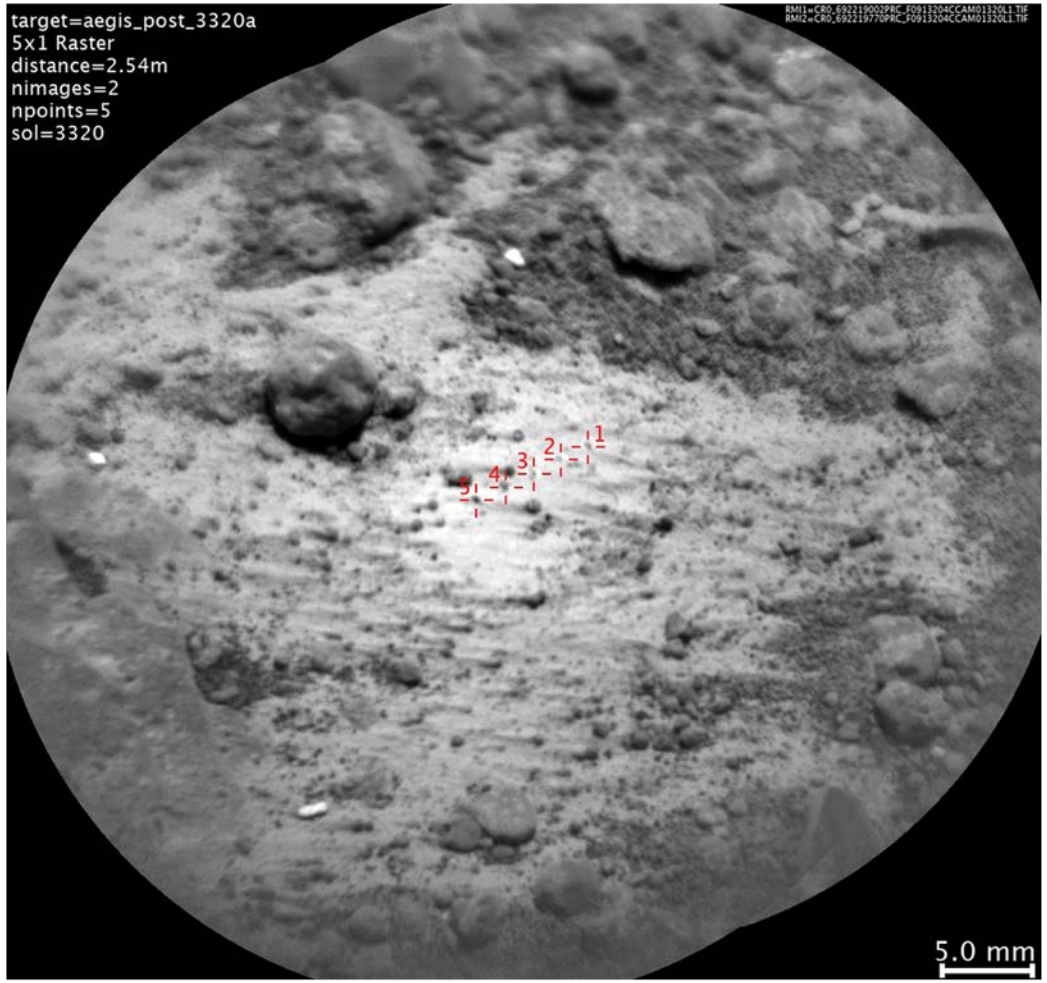


# Target: aegis_post_3320a

**Sol:** 3320
**Elev (m.):** -3979.87417457874
**CCAM Sequence ID:** CCAM01320

**Whole Target Classification:** Bedrock
**Lamination Strength:** Weakly Laminated
**Lamination Expression:** Laminae-Parallel Nodules
**Grain Visibility:** Below RMI Image Resolution
**Bedrock Appearance:** Dull
**Nodule Presence:** Occasional (~10% by Visual Inspection)
**Nodule Diameter:** Small (<1 mm)
**Nodule Resistance:** Protruding
**Fracture Presence:** Absent

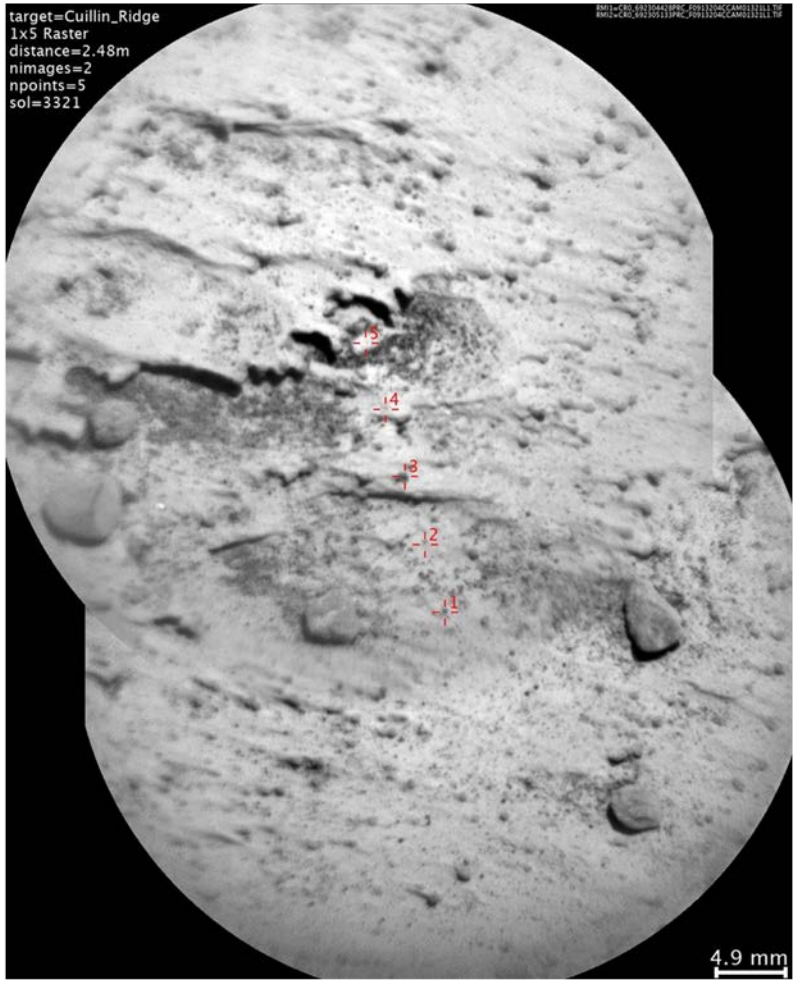



| # | Feature | SiO2 (wt%) | TiO2 (wt%) | Al2O3 (wt%) | FeOT (wt%) | MgO (wt%) | CaO (wt%) | Na2O (wt%) | K2O (wt%) | Sum of Oxides (wt%) |
|---|---|---|---|---|---|---|---|---|---|---|
| 1 | Bedrock | 62 | 1.32 | 12.9 | 10.9 | 3.3 | 3 | 2.7 | 1.1 | 97.12 |
| 2 | Bedrock | 63.5 | 1.26 | 12.6 | 11.9 | 3 | 2.4 | 2.66 | 1.16 | 98.55 |
| 3 | Bedrock | 53 | 1.03 | 12.8 | 14.4 | 3.1 | 8.6 | 2.26 | 1.39 | 96.55 |
| 4 | Bedrock | 47.8 | 0.87 | 10.6 | 14.1 | 2.6 | 14.2 | 1.55 | 0.88 | 92.73 |
| 5 | Bedrock | 56 | 1.28 | 12 | 19.5 | 3 | 2.9 | 2.39 | 2.92 | 99.87 |

# Target: Cuillin_Ridge

**Sol:** 3321
**Elev (m.):** -3979.78171840092
**CCAM Sequence ID:** CCAM01321

**Whole Target Classification:** Bedrock
**Lamination Strength:** Weakly Laminated
**Lamination Expression:** Laminae-Parallel Nodules
**Grain Visibility:** Below RMI Image Resolution
**Bedrock Appearance:** Dull
**Nodule Presence:** Common (~30% by Visual Inspection
**Nodule Diameter:** Small (<1 mm)
**Nodule Resistance:** Protruding
**Fracture Presence:** Absent



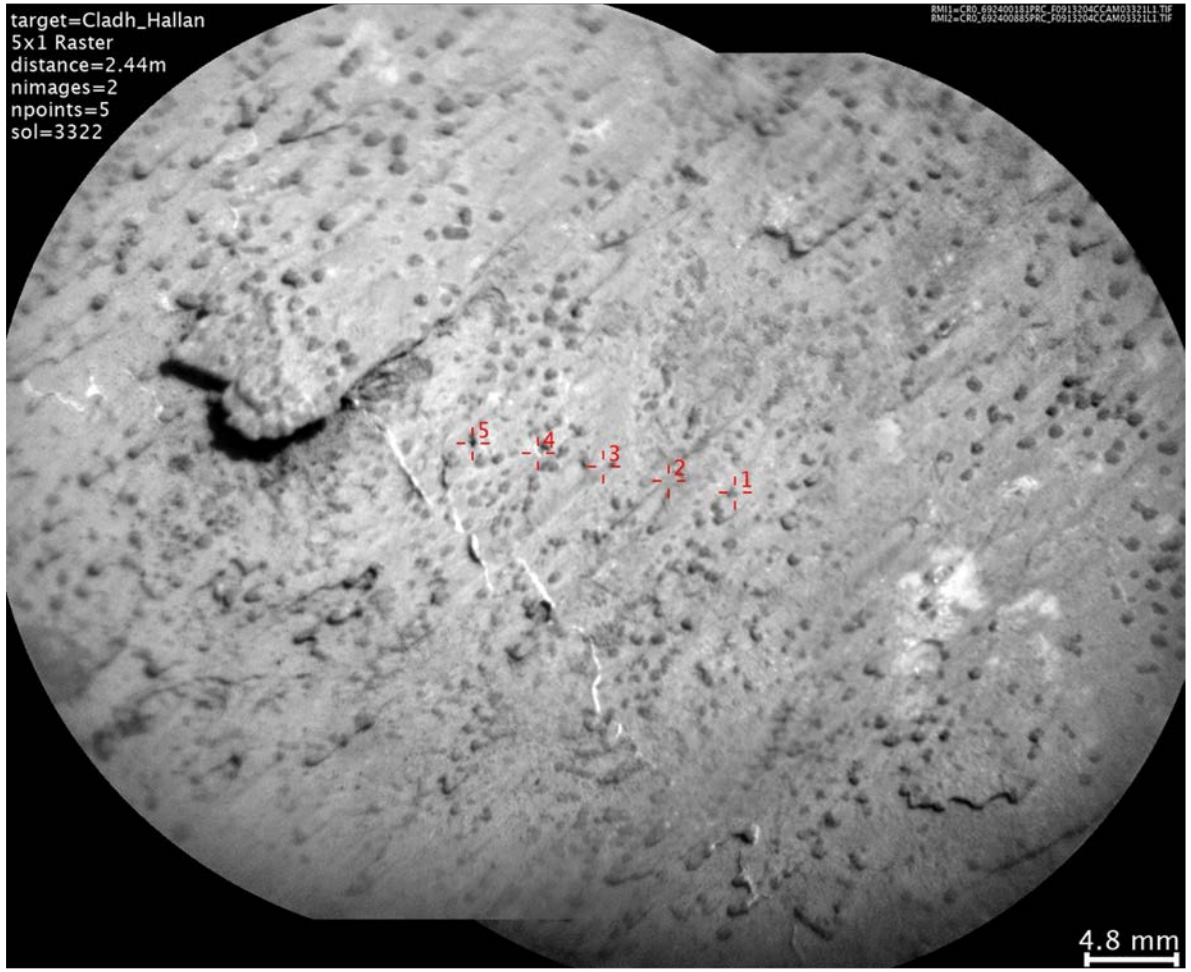

| # | Feature | SiO2 (wt%) | TiO2 (wt%) | Al2O3 (wt%) | FeOT (wt%) | MgO (wt%) | CaO (wt%) | Na2O (wt%) | K2O (wt%) | Sum of Oxides (wt%) |
|---|---|---|---|---|---|---|---|---|---|---|
| 1 | Bedrock | 50.1 | 1.04 | 9.4 | 19.7 | 3.1 | 1.9 | 2.48 | 1.09 | 88.87 |
| 2 | Bedrock | 61.7 | 1.14 | 12.4 | 11.2 | 4 | 3.3 | 2.92 | 1.23 | 97.88 |
| 3 | Bedrock | 47.6 | 0.87 | 9 | 21.7 | 3.6 | 2.1 | 2.21 | 0.89 | 88.05 |
| 4 | Bedrock | 42.9 | 0.81 | 8.2 | 12.3 | 3.1 | 18.5 | 1.27 | 0.49 | 87.62 |
| 5 | Bedrock | 42.1 | 0.74 | 8.5 | 10.3 | 2.9 | 19.1 | 1.11 | 0.35 | 85.13 |

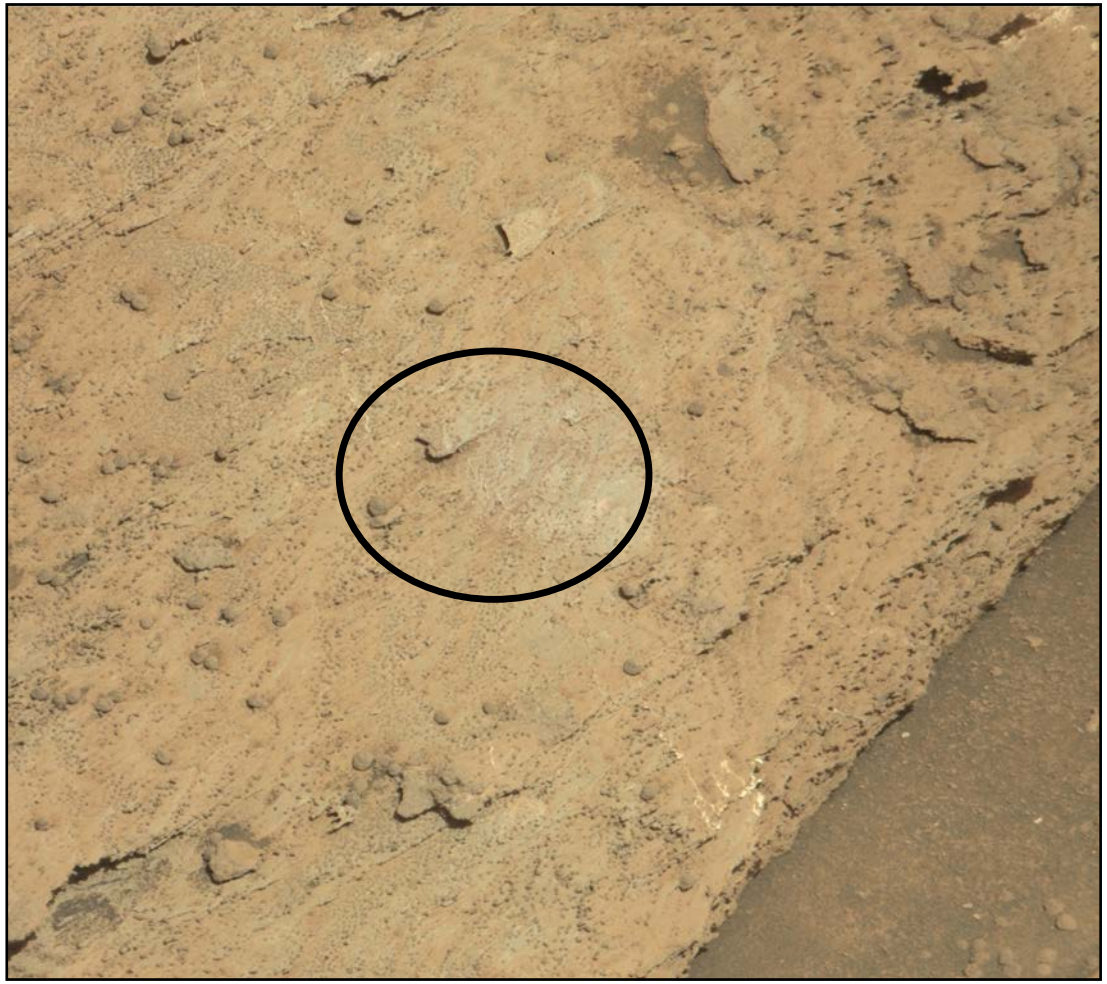
# Target: Cladh_Hallan

**Sol:** 3321
**Elev (m.):** -3979.68363421417
**CCAM Sequence ID:** CCAM03321

**Whole Target Classification:** Bedrock
**Lamination Strength:** Weakly Laminated
**Lamination Expression:** Laminae-Parallel Nodules
**Grain Visibility:** Below RMI Image Resolution
**Bedrock Appearance:** Dull
**Nodule Presence:** Pervasive (>50% by Visual Inspection)
**Nodule Diameter:** Small (<1 mm)
**Nodule Resistance:** Protruding
**Fracture Presence:** Occasional (<10% by Visual Inspection)

| # | Feature | SiO2 (wt%) | TiO2 (wt%) | Al2O3 (wt%) | FeOT (wt%) | MgO (wt%) | CaO (wt%) | Na2O (wt%) | K2O (wt%) | Sum of Oxides (wt%) |
|---|---|---|---|---|---|---|---|---|---|---|
| 1 | Nodule | 45.2 | 0.76 | 8.1 | 11.8 | 3.5 | 16 | 1.5 | 0.54 | 87.28 |
| 2 | Bedrock | 59.1 | 1 | 13.3 | 12.3 | 4.4 | 3.4 | 2.89 | 1.13 | 97.48 |
| 3 | Bedrock | 46.1 | 0.86 | 10.1 | 15.8 | 3 | 12.4 | 1.9 | 0.68 | 90.86 |
| 4 | Nodule | 33.7 | 0.66 | 5.8 | 10.5 | 2.8 | 23.6 | 0.84 | 0.32 | 78.18 |
| 5 | Bedrock | 46 | 0.92 | 8.6 | 20.4 | 2.3 | 1.5 | 2.45 | 0.83 | 83.03 |



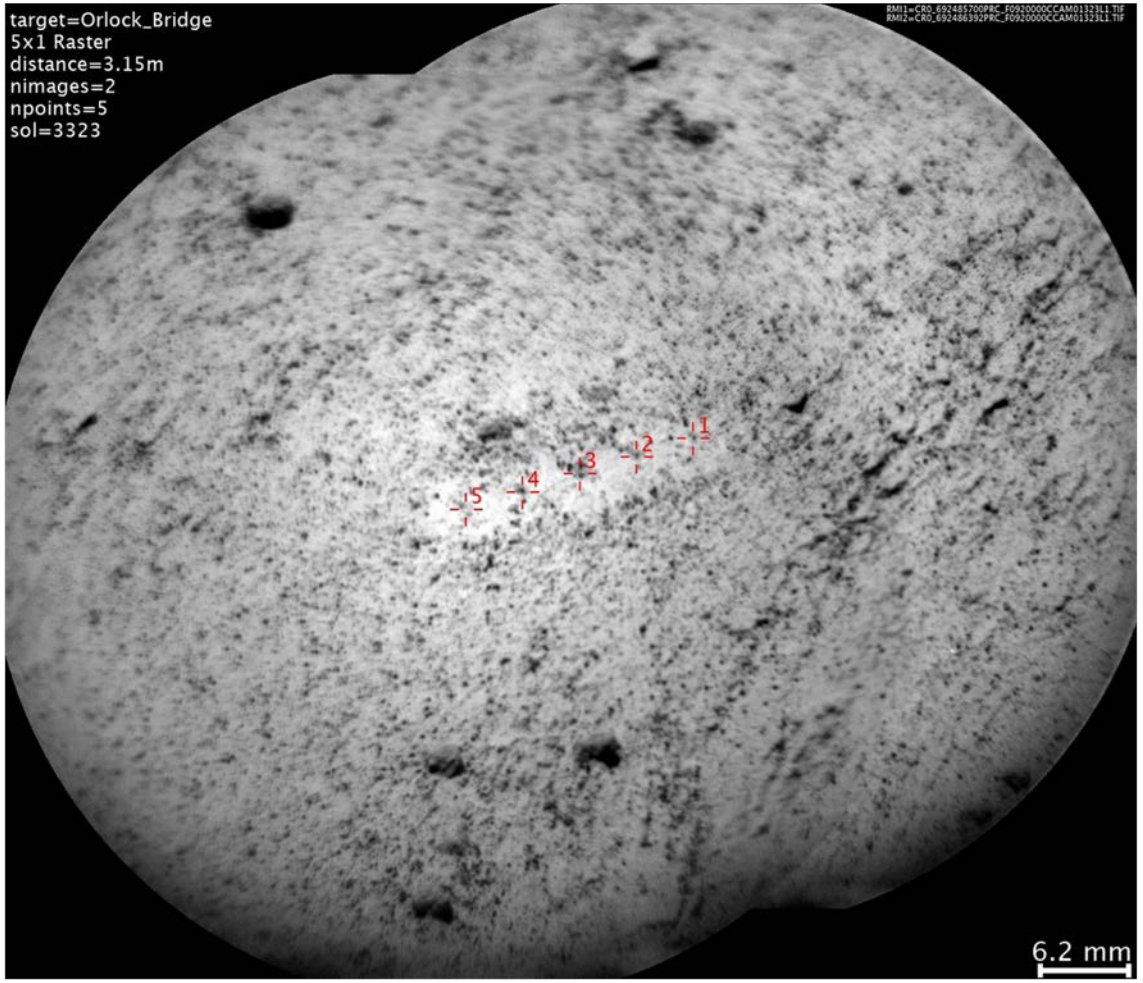



# Target: Orlock_Bridge

**Sol:** 3323
**Elev (m.):** -3977.19945912162
**CCAM Sequence ID:** CCAM01323

**Whole Target Classification:** Bedrock
**Lamination Strength:** Moderately Laminated
**Lamination Expression:** Laminae-Parallel Nodules
**Grain Visibility:** Below RMI Image Resolution
**Bedrock Appearance:** Dull
**Nodule Presence:** Absent
**Nodule Diameter:** Absent
**Nodule Resistance:** Absent
**Fracture Presence:** Absent

| # | Feature | SiO2 (wt%) | TiO2 (wt%) | Al2O3 (wt%) | FeOT (wt%) | MgO (wt%) | CaO (wt%) | Na2O (wt%) | K2O (wt%) | Sum of Oxides (wt%) |
|---|---|---|---|---|---|---|---|---|---|---|
| 1 | Bedrock | 50.1 | 0.85 | 11.1 | 15.6 | 3.1 | 11.6 | 2.09 | 0.8 | 95.27 |
| 2 | Bedrock | 53.6 | 0.84 | 12.4 | 16.1 | 5.1 | 5.1 | 4.92 | 0.98 | 99.09 |
| 3 | Bedrock | 41.7 | 0.73 | 9.2 | 14 | 2.8 | 18.3 | 1.6 | 0.58 | 88.96 |
| 4 | Bedrock | 56.2 | 1.05 | 14.1 | 18.2 | 2.9 | 4 | 3.1 | 1.41 | 101.04 |
| 5 | Bedrock | 33.5 | 0.67 | 5.4 | 10.9 | 3.1 | 25.3 | 1.02 | 0.27 | 80.15 |

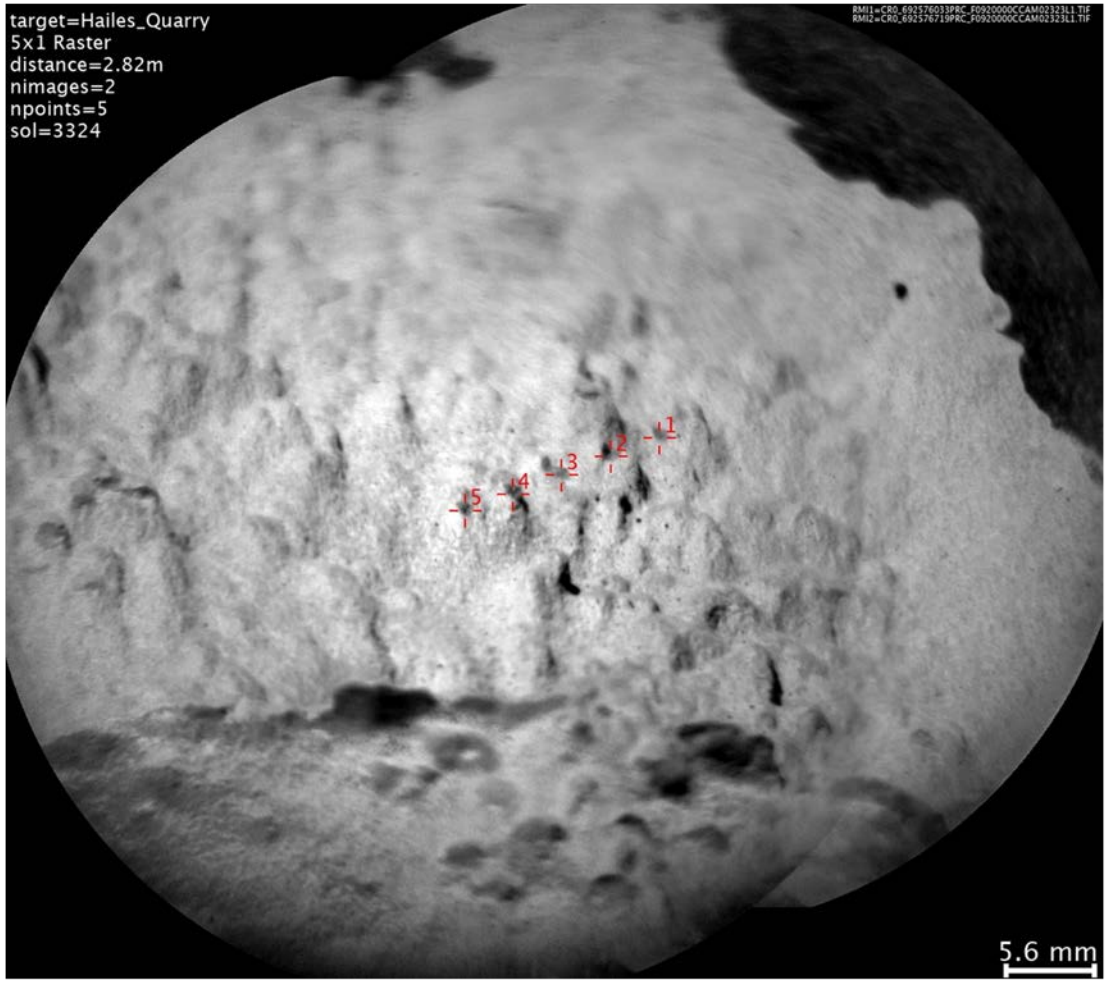


# Target: Hailes_Quarry

**Sol:** 3323
**Elev (m.):** -3977.1385114485
**CCAM Sequence ID:** CCAM02323

**Whole Target Classification:** Float
**Lamination Strength:** Absent
**Lamination Expression:** Absent
**Grain Visibility:** Above RMI Image Resolution
**Bedrock Appearance:** Dull
**Nodule Presence:** Absent
**Nodule Diameter:** Absent
**Nodule Resistance:** Absent
**Fracture Presence:** Absent

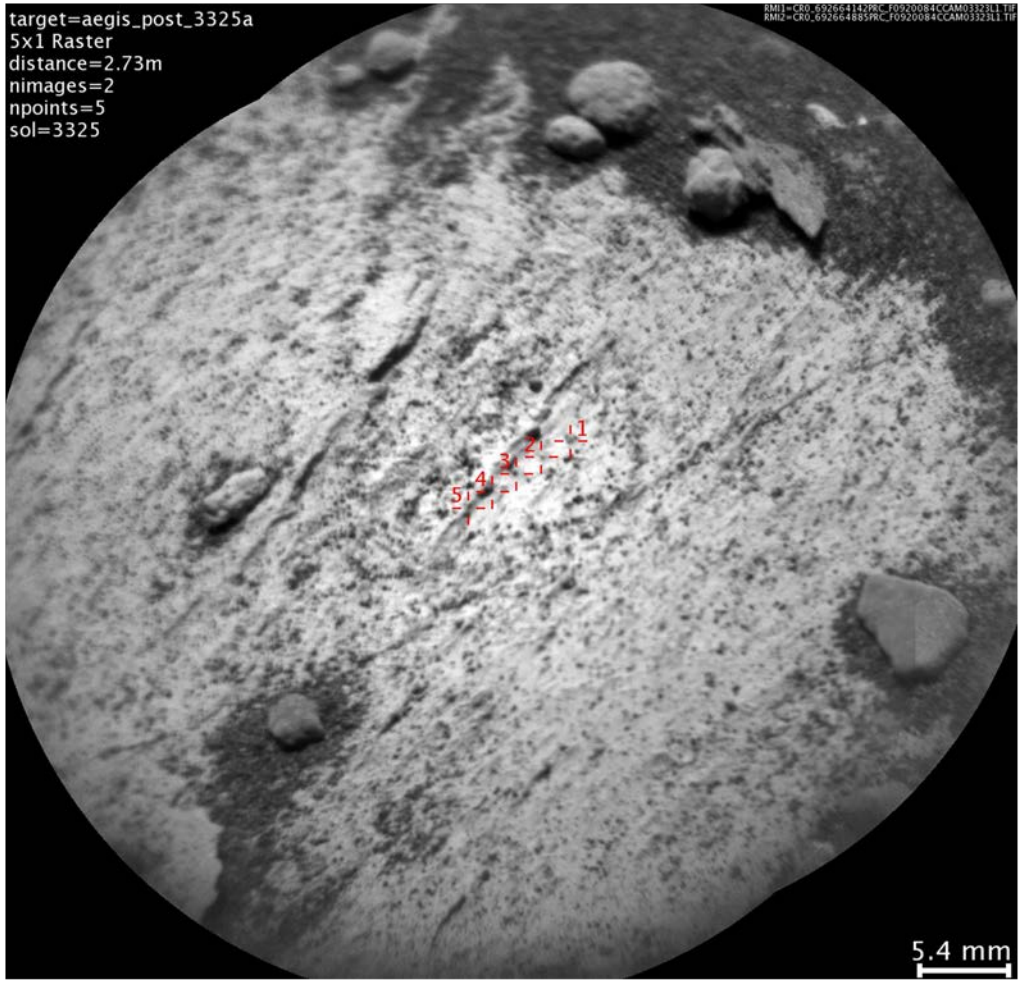
| # | Feature | SiO2 (wt%) | TiO2 (wt%) | Al2O3 (wt%) | FeOT (wt%) | MgO (wt%) | CaO (wt%) | Na2O (wt%) | K2O (wt%) | Sum of Oxides (wt%) |
|---|---|---|---|---|---|---|---|---|---|---|
| 1 | Bedrock | 47.3 | 0.77 | 10.5 | 18.3 | 14.6 | 2.7 | 2.55 | 0.74 | 97.53 |
| 2 | Bedrock | 47.3 | 0.77 | 9 | 15.3 | 16.2 | 3.6 | 2.19 | 0.63 | 94.99 |
| 3 | Bedrock | 47.1 | 0.78 | 9.1 | 17 | 15.9 | 2.6 | 2.41 | 0.88 | 95.73 |
| 4 | Bedrock | 42.3 | 0.79 | 10.1 | 21.3 | 12.5 | 2 | 2.86 | 1.01 | 92.81 |
| 5 | Bedrock | 41 | 0.8 | 10.7 | 20.7 | 9.9 | 5 | 2.94 | 0.92 | 91.96 |



# Target: aegis_post_3325a

**Sol:** 3323
**Elev (m.):** -3978.78171840092
**CCAM Sequence ID:** CCAM03323

**Whole Target Classification:** Bedrock
**Lamination Strength:** Weakly Laminated
**Lamination Expression:** Laminae-Parallel Nodules
**Grain Visibility:** Below RMI Image Resolution
**Bedrock Appearance:** Dull
**Nodule Presence:** Absent
**Nodule Diameter:** Absent
**Nodule Resistance:** Absent
**Fracture Presence:** Occasional (<10% by Visual Inspection)



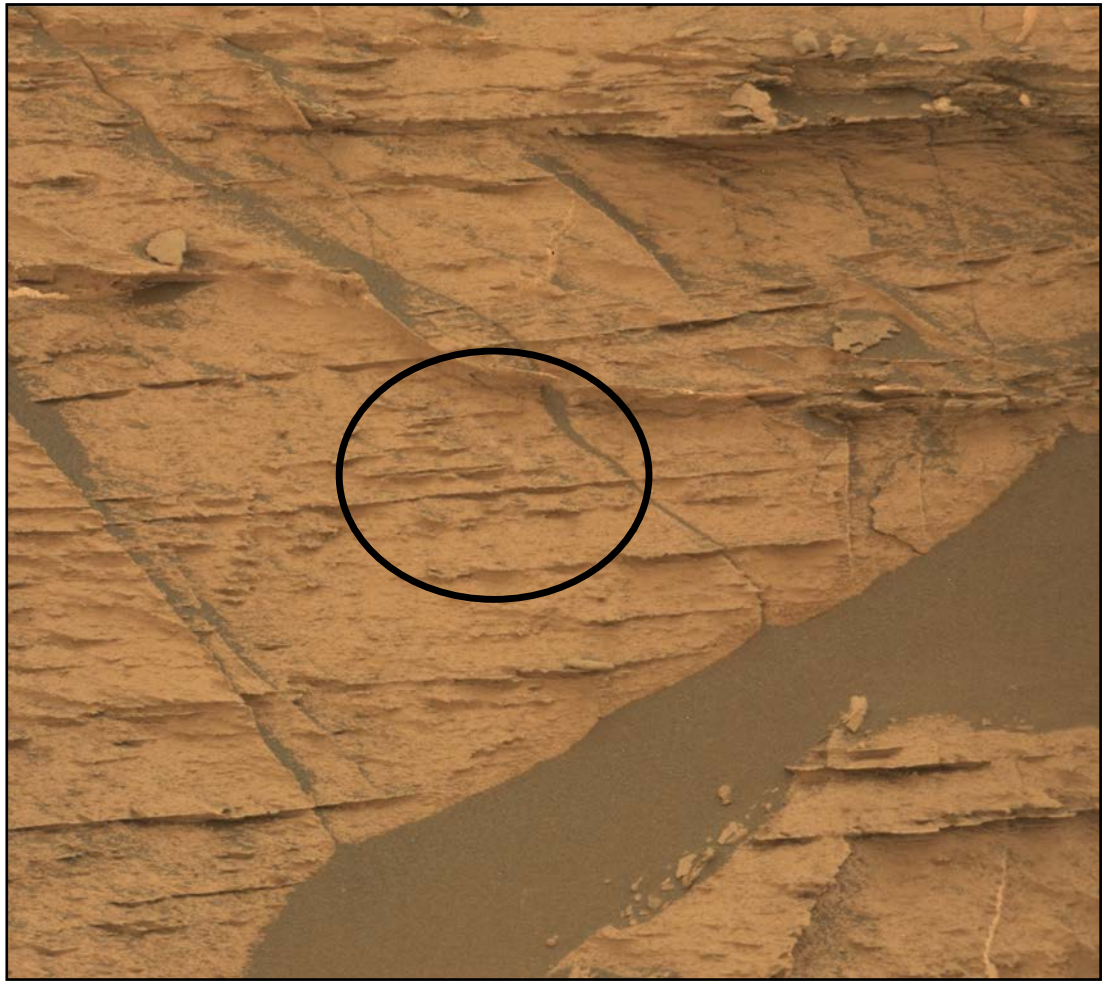

| # | Feature | SiO2 (wt%) | TiO2 (wt%) | Al2O3 (wt%) | FeOT (wt%) | MgO (wt%) | CaO (wt%) | Na2O (wt%) | K2O (wt%) | Sum of Oxides (wt%) |
|---|---|---|---|---|---|---|---|---|---|---|
| 1 | Bedrock | 49.3 | 0.87 | 9.2 | 21.7 | 2.8 | 1.7 | 2.78 | 1.28 | 89.58 |
| 2 | Bedrock | 38.4 | 0.7 | 8.7 | 17.3 | 2.4 | 16.9 | 1.58 | 0.46 | 86.45 |
| 3 | Bedrock | 58.6 | 1.09 | 13.1 | 17 | 3.9 | 3 | 2.94 | 1.21 | 100.88 |
| 4 | Bedrock | 45.3 | 0.8 | 9.8 | 19.1 | 2.9 | 8.8 | 2.4 | 0.93 | 90.02 |
| 5 | Bedrock | 34 | 0.68 | 6.7 | 23.6 | 2.7 | 14.8 | 1.59 | 0.55 | 84.62 |

# Target: Thornhill

**Sol:** 3326
**Elev (m.):** -3974.3378437386
**CCAM Sequence ID:** CCAM01326

**Whole Target Classification:** Bedrock
**Lamination Strength:** Moderately Laminated
**Lamination Expression:** Primary Stratification
**Grain Visibility:** Below RMI Image Resolution
**Bedrock Appearance:** Dull
**Nodule Presence:** Absent
**Nodule Diameter:** Absent
**Nodule Resistance:** Absent
**Fracture Presence:** Occasional (<10% by Visual Inspection)

| # | Feature | SiO2 (wt%) | TiO2 (wt%) | Al2O3 (wt%) | FeOT (wt%) | MgO (wt%) | CaO (wt%) | Na2O (wt%) | K2O (wt%) | Sum of Oxides (wt%) |
|---|---|---|---|---|---|---|---|---|---|---|
| 1 | Bedrock | 54.3 | 0.91 | 16.1 | 17.7 | 2.4 | 2.4 | 3.58 | 1.56 | 98.98 |
| 2 | Vein or Fracture | 51.2 | 0.85 | 12.5 | 17.8 | 2.9 | 10.3 | 2.55 | 1.32 | 99.44 |
| 3 | Bedrock | 39.8 | 0.74 | 8.4 | 29.8 | 2.3 | 9.3 | 2.26 | 0.91 | 93.47 |
| 4 | Bedrock | 52.5 | 0.96 | 14.6 | 16.7 | 3.3 | 8.9 | 3.07 | 1.56 | 101.47 |
| 5 | Bedrock | 49.3 | 0.87 | 12.6 | 16.9 | 3 | 11.1 | 2.75 | 1.1 | 97.63 |

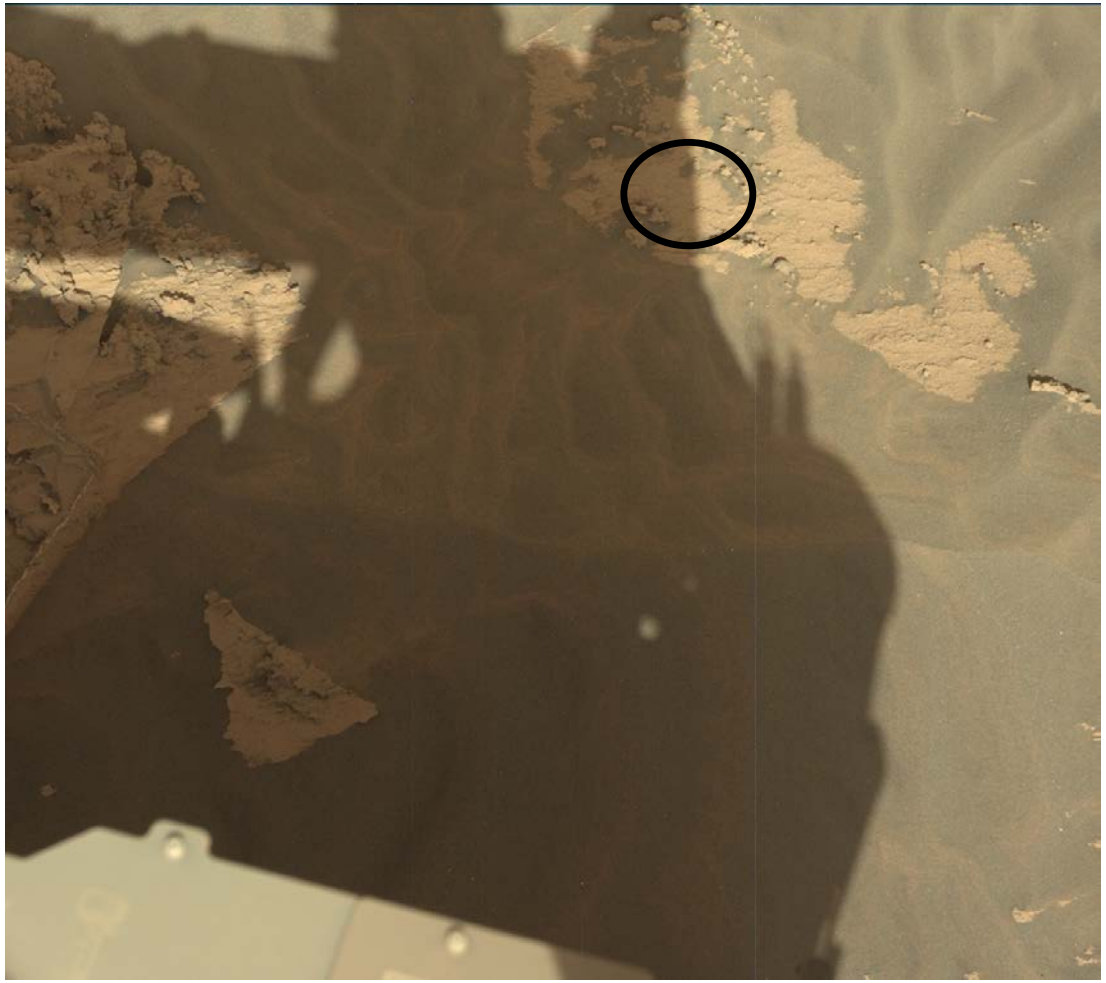


# Target: aegis_post_3327a

**Sol:** 3327
**Elev (m.):** -3974.03929050043
**CCAM Sequence ID:** CCAM02326

**Whole Target Classification:** Bedrock
**Lamination Strength:** Absent
**Lamination Expression:** Absent
**Grain Visibility:** Below RMI Image Resolution
**Bedrock Appearance:** Dull
**Nodule Presence:** Occasional (~10% by Visual Inspection)
**Nodule Diameter:** Large (>3 mm)
**Nodule Resistance:** Protruding
**Fracture Presence:** Occasional (<10% by Visual Inspection)

| # | Feature | SiO2 (wt%) | TiO2 (wt%) | Al2O3 (wt%) | FeOT (wt%) | MgO (wt%) | CaO (wt%) | Na2O (wt%) | K2O (wt%) | Sum of Oxides (wt%) |
|---|---|---|---|---|---|---|---|---|---|---|
| 1 | Vein or Fracture | 32.2 | 0.63 | 6 | 14 | 7 | 18.8 | 1.01 | 0.21 | 79.76 |
| 2 | Bedrock | 55.1 | 1.01 | 12.3 | 18.6 | 4 | 3.4 | 2.78 | 1.2 | 98.34 |
| 3 | Bedrock | 55.9 | 1.02 | 12.1 | 19.6 | 3.9 | 2.5 | 2.81 | 1.15 | 99.08 |
| 4 | Bedrock | 55.9 | 1 | 12.7 | 19 | 4 | 2.5 | 2.7 | 1.07 | 98.94 |
| 5 | Bedrock | 25.7 | 0.61 | 5.8 | 27.3 | 2.5 | 18.1 | 0.91 | 0.19 | 81.12 |

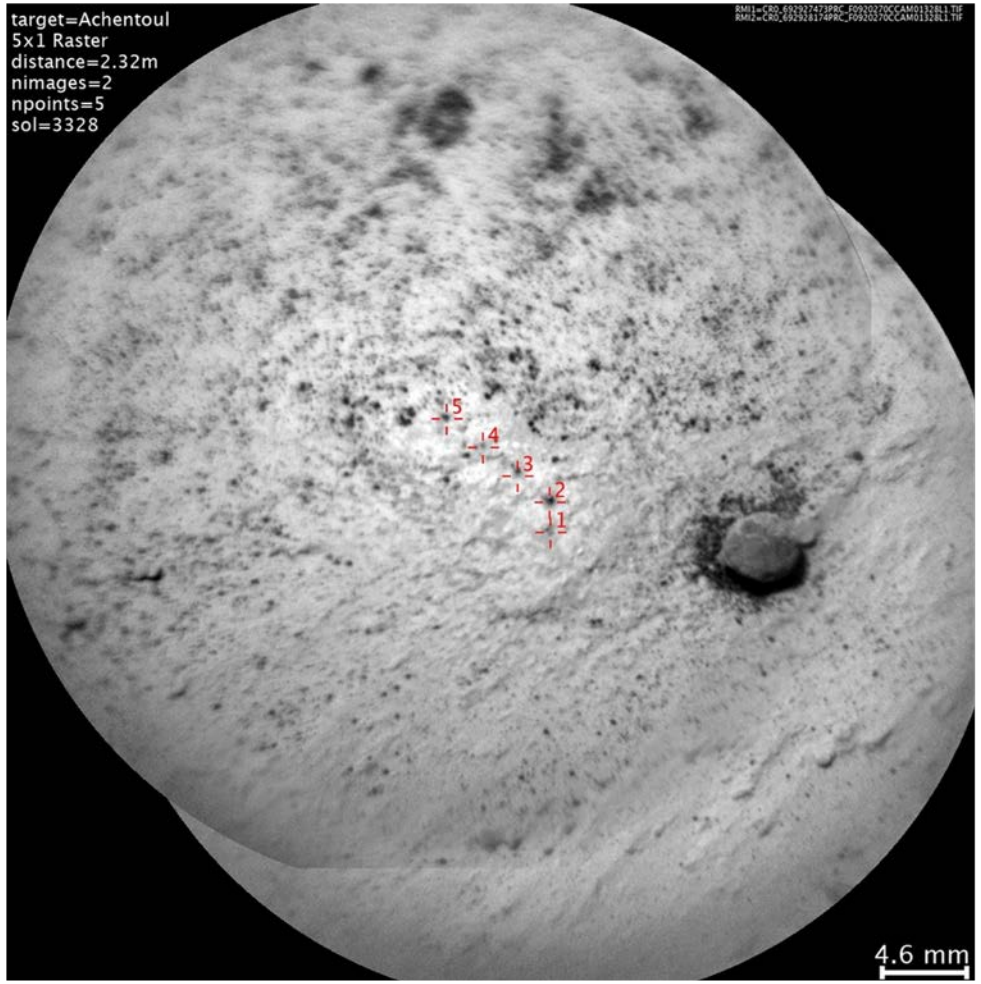


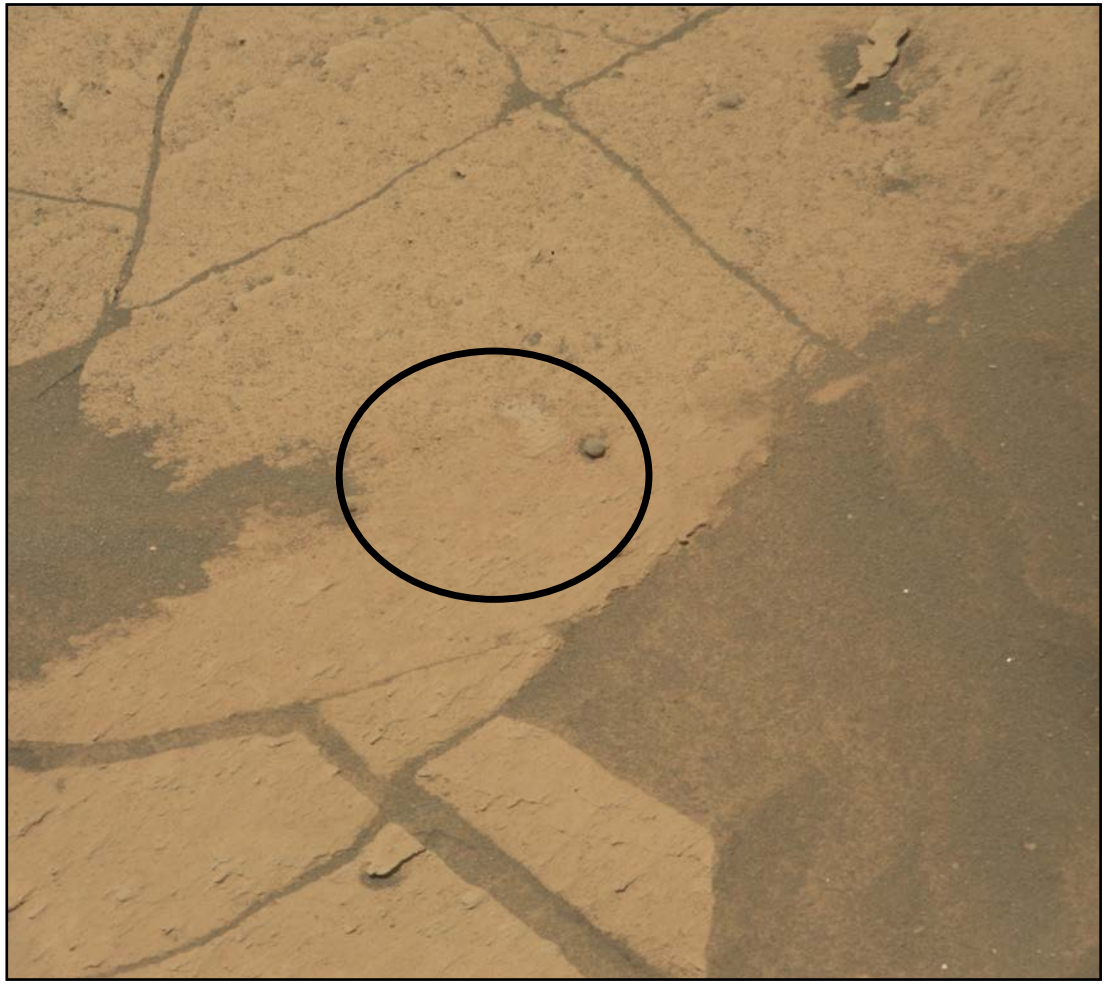
# Target: Achentoul

**Sol:** 3328
**Elev (m.):** -3973.96365846094
**CCAM Sequence ID:** CCAM01328

**Whole Target Classification:** Bedrock
**Lamination Strength:** Weakly Laminated
**Lamination Expression:** Laminae-Parallel Nodules
**Grain Visibility:** Below RMI Image Resolution
**Bedrock Appearance:** Dull
**Nodule Presence:** Absent
**Nodule Diameter:** Absent
**Nodule Resistance:** Absent
**Fracture Presence:** Occasional (<10% by Visual Inspection)

| # | Feature | SiO2 (wt%) | TiO2 (wt%) | Al2O3 (wt%) | FeOT (wt%) | MgO (wt%) | CaO (wt%) | Na2O (wt%) | K2O (wt%) | Sum of Oxides (wt%) |
|---|---|---|---|---|---|---|---|---|---|---|
| 1 | Bedrock | 30.3 | 0.64 | 5.9 | 12.9 | 2.2 | 22.4 | 0.85 | 0.29 | 75.54 |
| 2 | Bedrock | 54.2 | 0.99 | 12 | 19.5 | 4.7 | 2.5 | 2.77 | 1.16 | 97.81 |
| 3 | Bedrock | 41.8 | 0.73 | 7.7 | 14.2 | 3.1 | 16.8 | 1.34 | 0.49 | 86.3 |
| 4 | Bedrock | 41.6 | 0.72 | 7.8 | 13.8 | 3 | 16.6 | 1.36 | 0.47 | 85.32 |
| 5 | Bedrock | 56.2 | 1 | 12.2 | 17.6 | 4.6 | 2.4 | 2.67 | 1.01 | 97.65 |



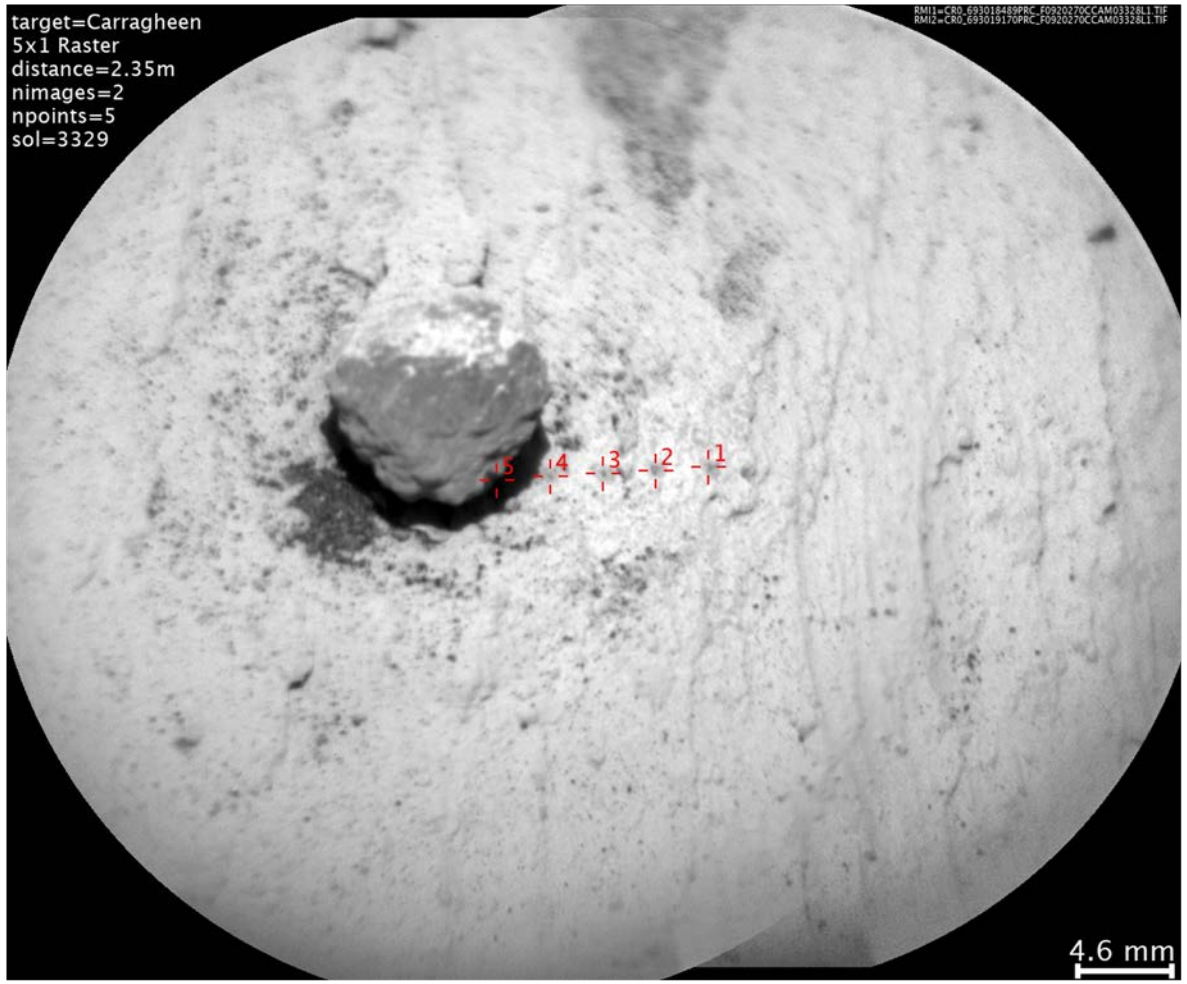



# Target: Carragheen

**Sol:** 3329
**Elev (m.):** -3973.92273530413
**CCAM Sequence ID:** CCAM03328

**Whole Target Classification:** Bedrock
**Lamination Strength:** Weakly Laminated
**Lamination Expression:** Laminae-Parallel Nodules
**Grain Visibility:** Below RMI Image Resolution
**Bedrock Appearance:** Dull
**Nodule Presence:** Occasional (~10% by Visual Inspection)
**Nodule Diameter:** Large (>3 mm)
**Nodule Resistance:** Protruding
**Fracture Presence:** Occasional (<10% by Visual Inspection)

| # | Feature | SiO2 (wt%) | TiO2 (wt%) | Al2O3 (wt%) | FeOT (wt%) | MgO (wt%) | CaO (wt%) | Na2O (wt%) | K2O (wt%) | Sum of Oxides (wt%) |
|---|---|---|---|---|---|---|---|---|---|---|
| 1 | Bedrock | 39.5 | 0.71 | 7 | 14.1 | 3.4 | 16.9 | 1.38 | 0.56 | 83.63 |
| 2 | Bedrock | 46.5 | 0.73 | 8.4 | 18.1 | 13.1 | 1.6 | 2.11 | 0.68 | 91.19 |
| 3 | Bedrock | 42 | 0.74 | 8.9 | 13.7 | 3 | 16.4 | 1.51 | 0.58 | 86.8 |
| 4 | Bedrock | 40.3 | 0.73 | 7.2 | 15.4 | 3.2 | 15.3 | 1.51 | 0.57 | 84.18 |
| 5 | Nodule | 42.7 | 0.92 | 7.9 | 24.4 | 4.7 | 3.2 | 2.17 | 0.48 | 86.45 |

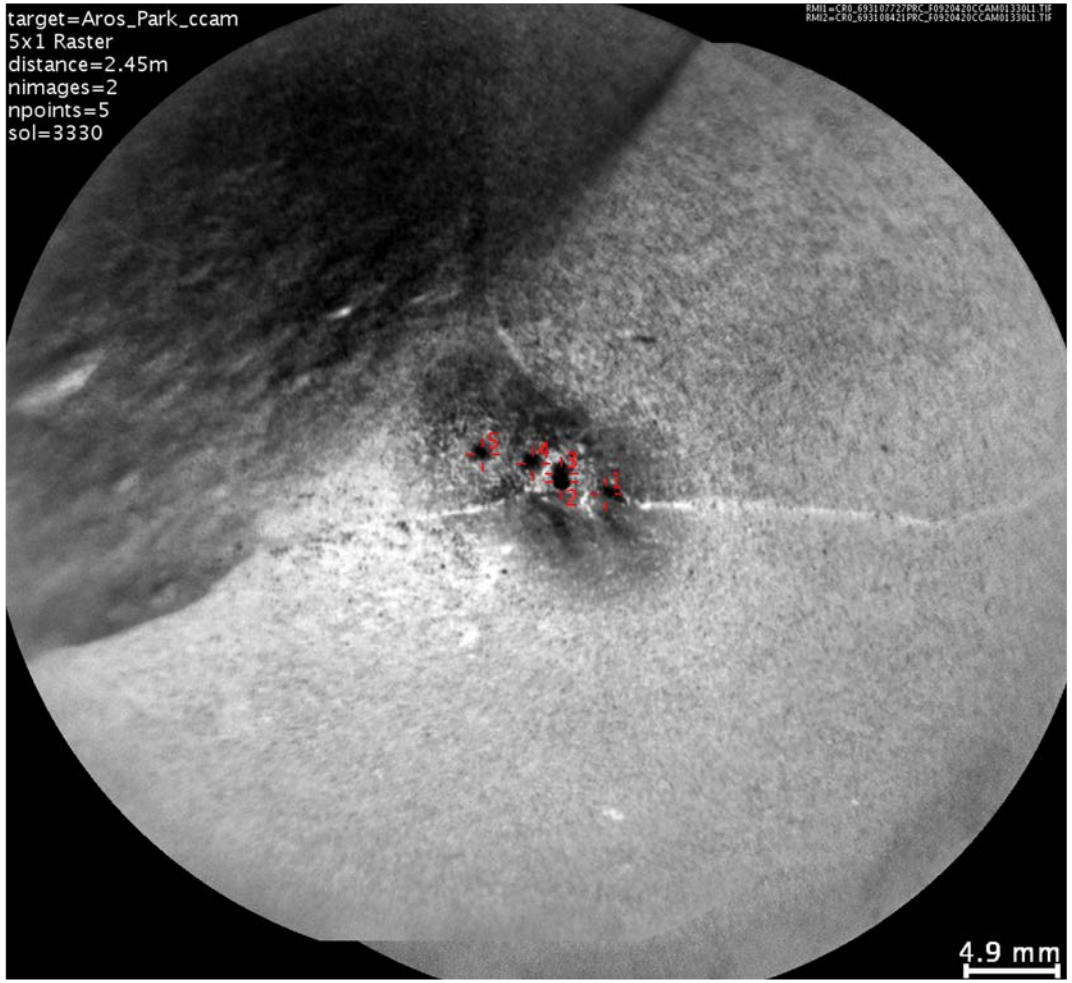


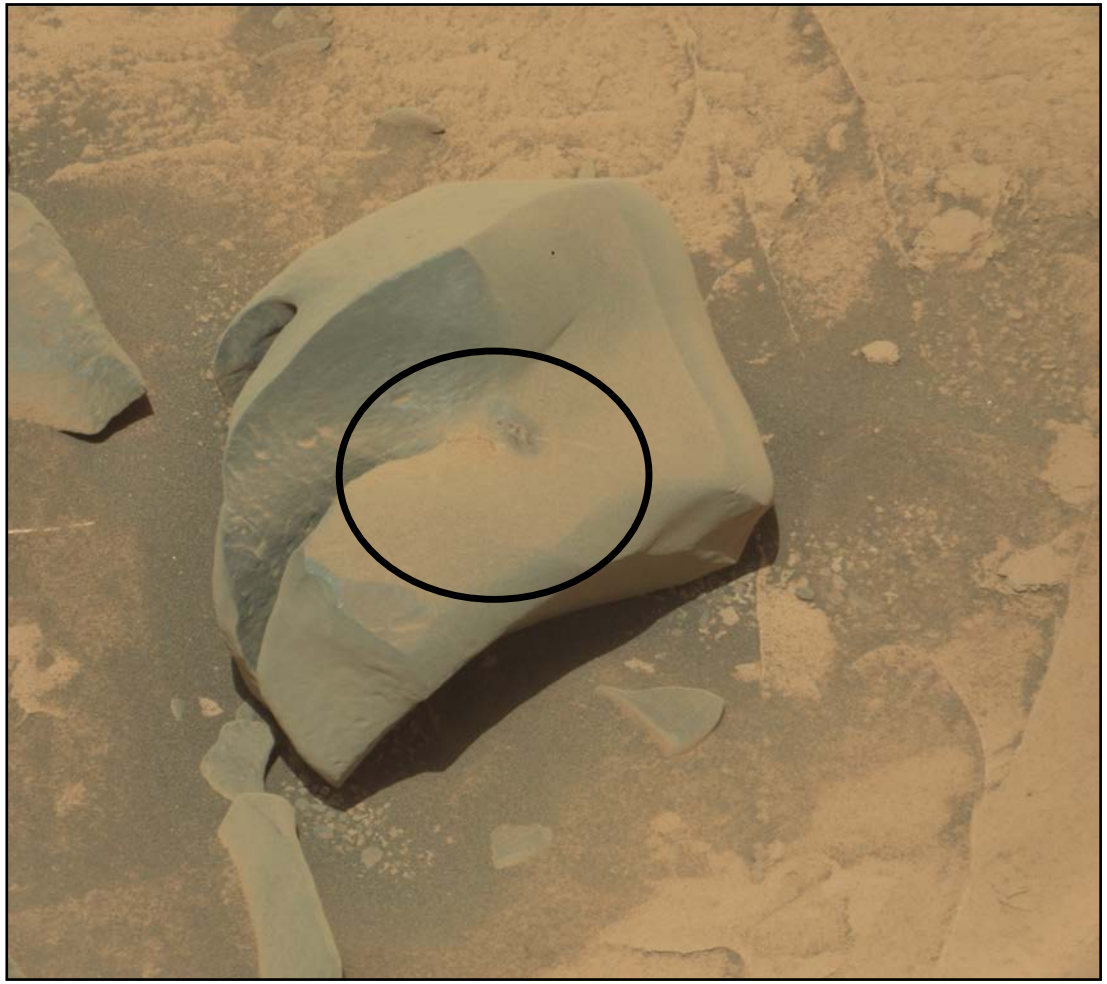
# Target: Aros_Park_ccam

**Sol:** 3330
**Elev (m.):** -3975.2131292519
**CCAM Sequence ID:** CCAM01330

**Whole Target Classification:** Float
**Lamination Strength:** Absent
**Lamination Expression:** Absent
**Grain Visibility:** Below RMI Image Resolution
**Bedrock Appearance:** Dull
**Nodule Presence:** Absent
**Nodule Diameter:** Absent
**Nodule Resistance:** Absent
**Fracture Presence:** Absent

| # | Feature | SiO2 (wt%) | TiO2 (wt%) | Al2O3 (wt%) | FeOT (wt%) | MgO (wt%) | CaO (wt%) | Na2O (wt%) | K2O (wt%) | Sum of Oxides (wt%) |
|---|---|---|---|---|---|---|---|---|---|---|
| 1 | Bedrock | 43.9 | 1.94 | 9 | 18.2 | 7.5 | 7.5 | 2.6 | 0.97 | 91.53 |
| 2 | Bedrock | 44.9 | 1.78 | 9.9 | 19.4 | 8 | 5 | 3 | 1.17 | 93.15 |
| 3 | Bedrock | 42.8 | 1.59 | 9.5 | 18.3 | 8 | 6.8 | 2.77 | 0.82 | 90.7 |
| 4 | Bedrock | 44 | 1.42 | 9.1 | 18.9 | 8.8 | 5.7 | 2.89 | 0.97 | 91.86 |
| 5 | Bedrock | 44.2 | 1.49 | 8.1 | 19.8 | 11.3 | 3.6 | 2.66 | 0.9 | 92.05 |



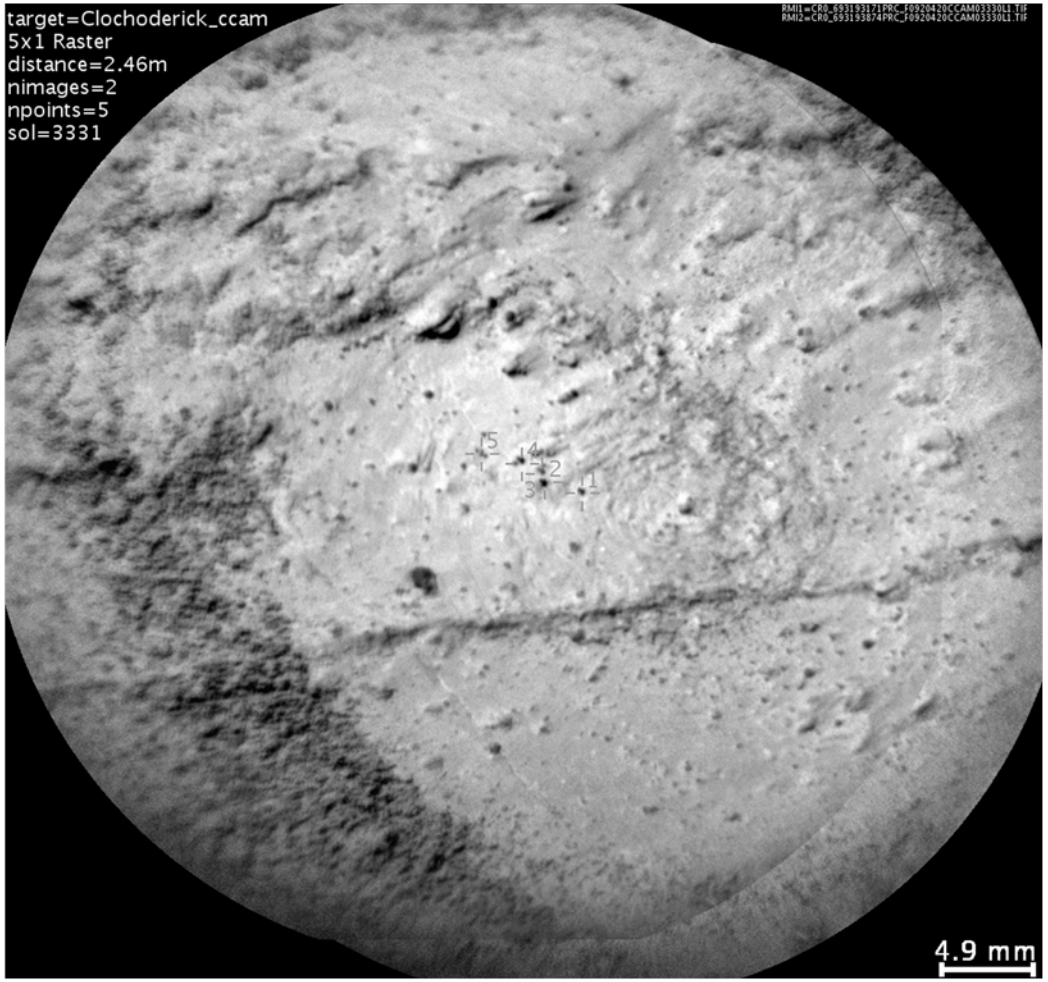



# Target: Clochoderick_ccam

**Sol:** 3331
**Elev (m.):** -3975.29646399465
**CCAM Sequence ID:** CCAM03330

**Whole Target Classification:** Bedrock
**Lamination Strength:** Absent
**Lamination Expression:** Absent
**Grain Visibility:** Below RMI Image Resolution
**Bedrock Appearance:** Dull
**Nodule Presence:** Common (~30% by Visual Inspection
**Nodule Diameter:** Medium (1 - 3 mm)
**Nodule Resistance:** Protruding
**Fracture Presence:** Absent

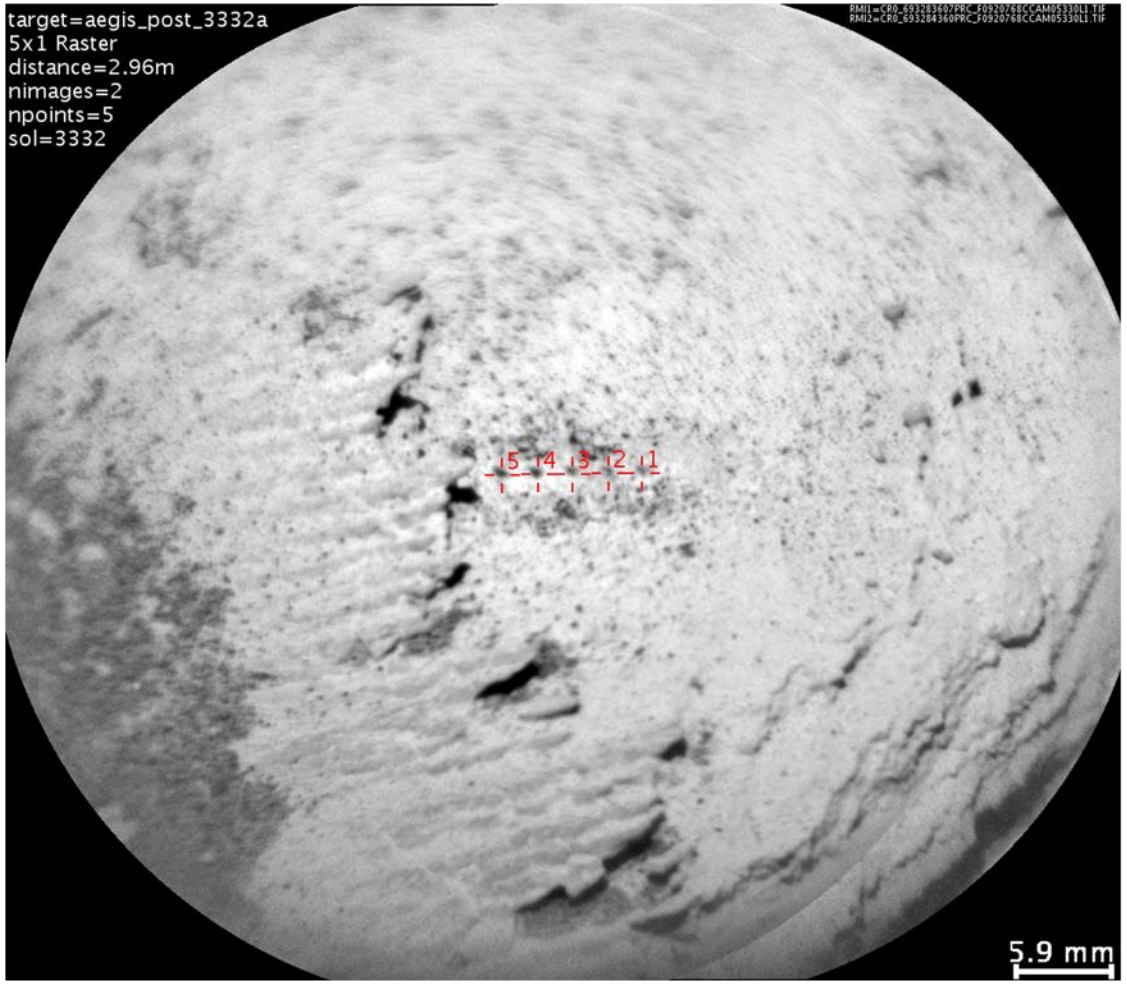
| # | Feature | SiO2 (wt%) | TiO2 (wt%) | Al2O3 (wt%) | FeOT (wt%) | MgO (wt%) | CaO (wt%) | Na2O (wt%) | K2O (wt%) | Sum of Oxides (wt%) |
|---|---|---|---|---|---|---|---|---|---|---|
| 1 | Bedrock | 59.5 | 1.18 | 13.1 | 16.4 | 2.9 | 3.1 | 2.92 | 1.14 | 100.23 |
| 2 | Bedrock | 59.7 | 1.18 | 12.3 | 18.5 | 2.8 | 2.7 | 2.92 | 1.29 | 101.28 |
| 3 | Bedrock | 62 | 1.2 | 12.6 | 15.7 | 2.8 | 2.8 | 2.96 | 1.23 | 101.19 |
| 4 | Bedrock | 61 | 1.28 | 12.8 | 16.2 | 3 | 3 | 2.89 | 1.22 | 101.29 |
| 5 | Bedrock | 41.7 | 0.75 | 7.7 | 11.6 | 2.6 | 19.8 | 1.23 | 0.44 | 85.8 |



# Target: aegis_post_3332a

**Sol:** 3332
**Elev (m.):** -3974.11433845084
**CCAM Sequence ID:** CCAM05330

**Whole Target Classification:** Bedrock
**Lamination Strength:** Weakly Laminated
**Lamination Expression:** Primary Stratification
**Grain Visibility:** Below RMI Image Resolution
**Bedrock Appearance:** Dull
**Nodule Presence:** Absent
**Nodule Diameter:** Absent
**Nodule Resistance:** Absent
**Fracture Presence:** Absent



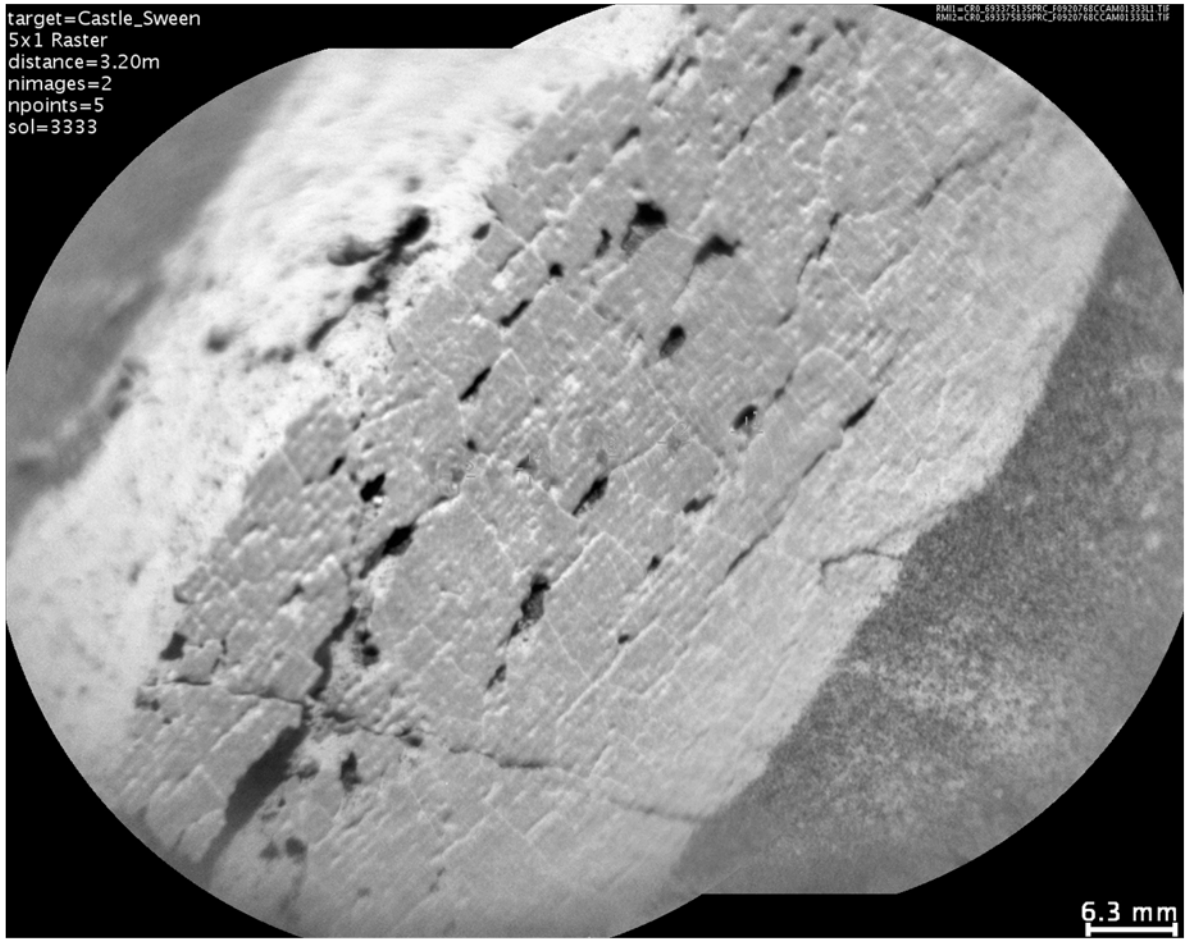

| # | Feature | SiO2 (wt%) | TiO2 (wt%) | Al2O3 (wt%) | FeOT (wt%) | MgO (wt%) | CaO (wt%) | Na2O (wt%) | K2O (wt%) | Sum of Oxides (wt%) |
|---|---|---|---|---|---|---|---|---|---|---|
| 1 | Bedrock | 49 | 0.9 | 11.2 | 18.9 | 3.8 | 8.4 | 2.36 | 0.71 | 95.3 |
| 2 | Bedrock | 45.1 | 0.82 | 9.1 | 17.7 | 3.7 | 11.7 | 1.61 | 0.53 | 90.29 |
| 3 | Bedrock | 53.6 | 1 | 13 | 19.6 | 4.4 | 4 | 2.41 | 0.87 | 98.8 |
| 4 | Bedrock | 55.3 | 1.04 | 13.8 | 20.4 | 4.2 | 2.4 | 2.83 | 1.21 | 101.19 |
| 5 | Bedrock | 54.8 | 1.07 | 12.6 | 20.9 | 4.4 | 2.5 | 2.6 | 1.03 | 99.92 |

# Target: Castle_Sween

**Sol:** 3333
**Elev (m.):** -3972.93221290702
**CCAM Sequence ID:** CCAM01333

**Whole Target Classification:** Bedrock
**Lamination Strength:** Weakly Laminated
**Lamination Expression:** Primary Stratification
**Grain Visibility:** Below RMI Image Resolution
**Bedrock Appearance:** Dull
**Nodule Presence:** Absent
**Nodule Diameter:** Absent
**Nodule Resistance:** Absent
**Fracture Presence:** Common (~10-20% by Visual Inspection)

| # | Feature | SiO2 (wt%) | TiO2 (wt%) | Al2O3 (wt%) | FeOT (wt%) | MgO (wt%) | CaO (wt%) | Na2O (wt%) | K2O (wt%) | Sum of Oxides (wt%) |
|---|---|---|---|---|---|---|---|---|---|---|
| 1 | Vein or Fracture | 53.8 | 1.01 | 12.3 | 20.5 | 5.7 | 2.4 | 2.63 | 0.89 | 99.19 |
| 2 | Vein or Fracture | 41.5 | 0.78 | 7.8 | 17.9 | 19.4 | 1.4 | 1.66 | 0.56 | 90.99 |
| 3 | Vein or Fracture | 41.4 | 0.73 | 7.8 | 18.6 | 18.9 | 1.2 | 1.67 | 0.55 | 90.88 |
| 4 | Vein or Fracture | 39.5 | 0.74 | 8 | 18.7 | 10.4 | 10.3 | 1.56 | 0.54 | 89.7 |
| 5 | Vein or Fracture | 40.4 | 0.76 | 7 | 17.2 | 20.5 | 1.2 | 1.54 | 0.43 | 89.03 |



# Target: aegis_post_3336a

**Sol:** 3336
**Elev (m.):** -3968.12396160431
**CCAM Sequence ID:** CCAM03333

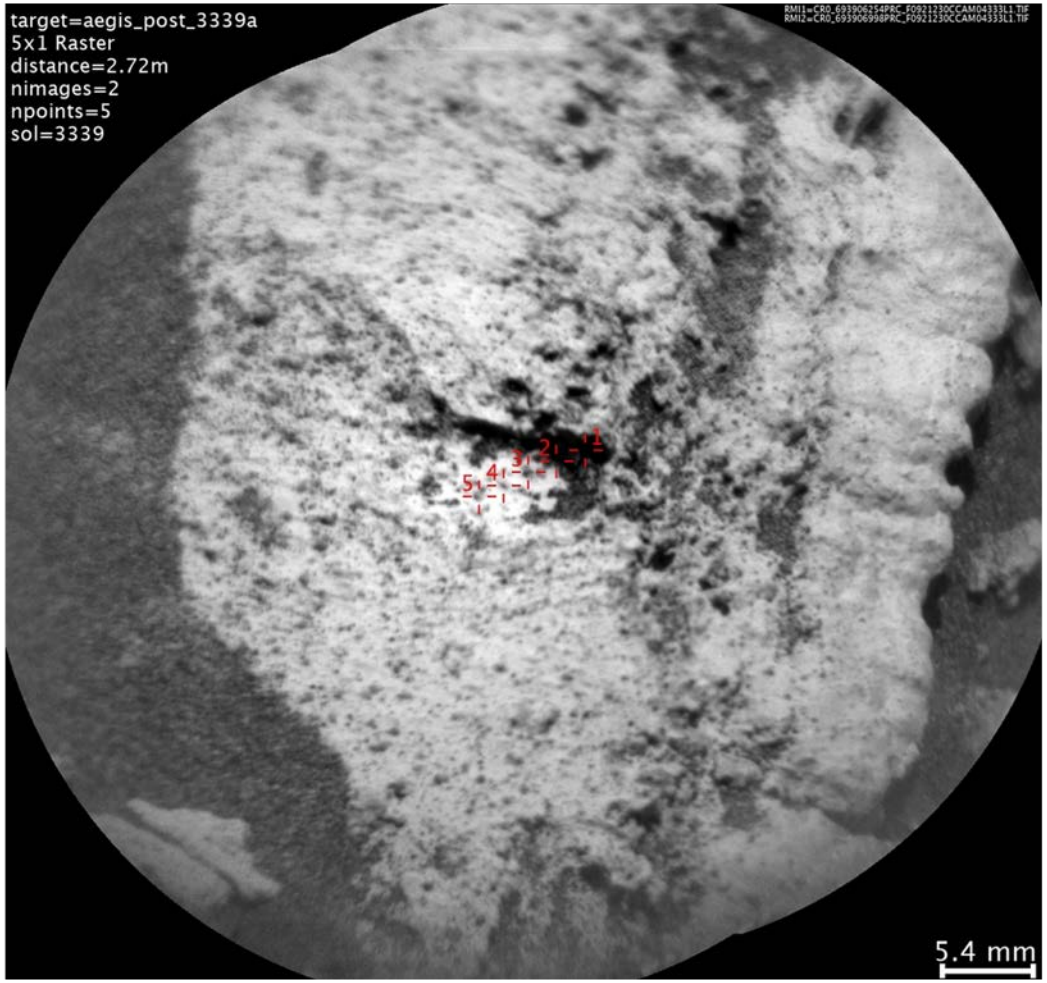
**Whole Target Classification:** Bedrock
**Lamination Strength:** Absent
**Lamination Expression:** Absent
**Grain Visibility:** Above RMI Image Resolution
**Bedrock Appearance:** Dull
**Nodule Presence:** Occasional (~10% by Visual Inspection)
**Nodule Diameter:** Medium (1 - 3 mm)
**Nodule Resistance:** Protruding
**Fracture Presence:** Absent

| # | Feature | SiO2 (wt%) | TiO2 (wt%) | Al2O3 (wt%) | FeOT (wt%) | MgO (wt%) | CaO (wt%) | Na2O (wt%) | K2O (wt%) | Sum of Oxides (wt%) |
|---|---|---|---|---|---|---|---|---|---|---|
| 1 | Bedrock | 28.7 | 0.71 | 5.3 | 15.4 | 3.9 | 20.5 | 0.98 | 0.19 | 75.65 |
| 2 | Bedrock | 36.6 | 0.71 | 7.4 | 15.9 | 8 | 13.5 | 1.32 | 0.25 | 83.68 |
| 3 | Bedrock | 38.8 | 0.71 | 7.7 | 18.3 | 18.1 | 2.2 | 1.81 | 0.48 | 88.06 |
| 4 | Bedrock | 41.6 | 0.83 | 8.8 | 21 | 13 | 4.1 | 2.09 | 0.43 | 91.82 |
| 5 | Bedrock | 39.1 | 0.64 | 7.9 | 14.4 | 4.4 | 18.8 | 1.16 | 0.24 | 86.54 |

# Target: aegis_post_3339a

**Sol:** 3339
**Elev (m.):** -3968.62220460431
**CCAM Sequence ID:** CCAM04333

**Whole Target Classification:** Bedrock
**Lamination Strength:** Weakly Laminated
**Lamination Expression:** Laminae-Parallel Nodules
**Grain Visibility:** Below RMI Image Resolution
**Bedrock Appearance:** Dull
**Nodule Presence:** Common (~30% by Visual Inspection
**Nodule Diameter:** Small (<1 mm)
**Nodule Resistance:** Protruding
**Fracture Presence:** Absent



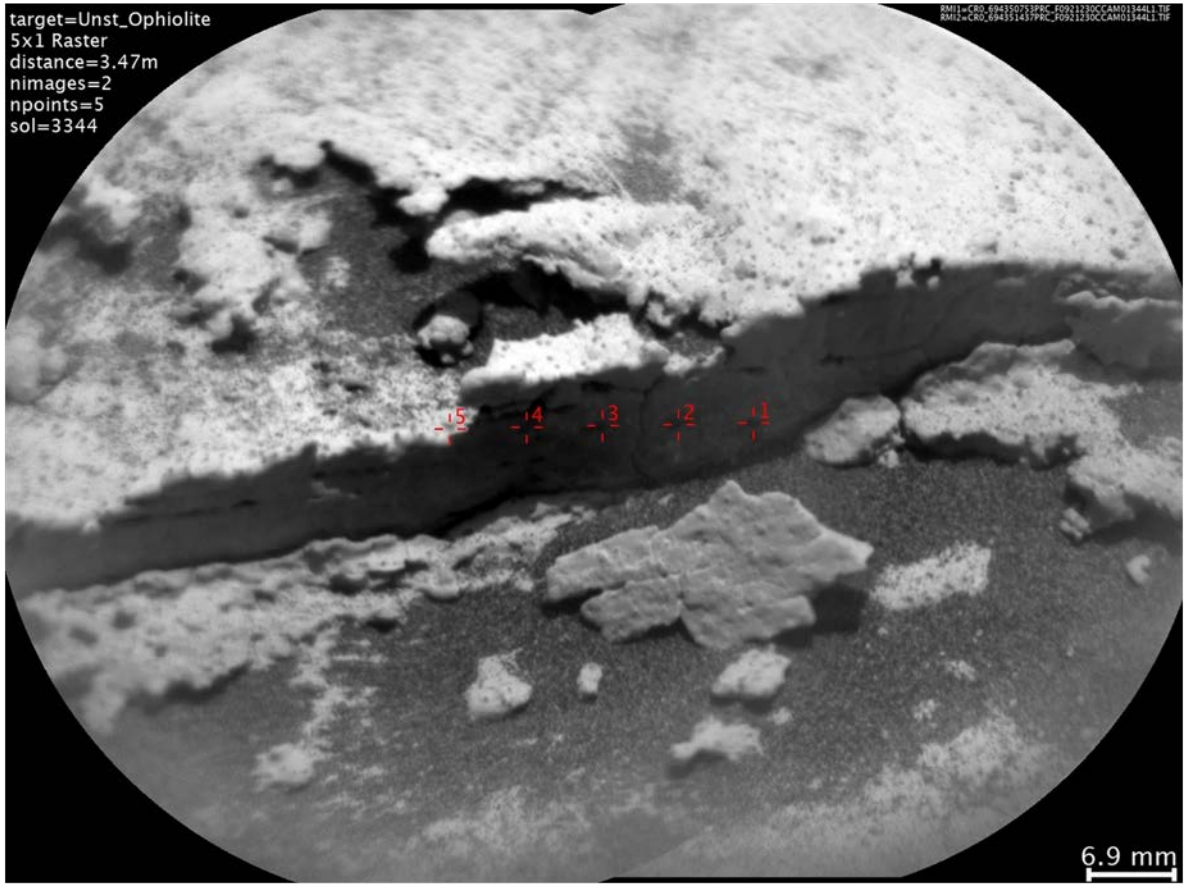

| # | Feature | SiO2 (wt%) | TiO2 (wt%) | Al2O3 (wt%) | FeOT (wt%) | MgO (wt%) | CaO (wt%) | Na2O (wt%) | K2O (wt%) | Sum of Oxides (wt%) |
|---|---|---|---|---|---|---|---|---|---|---|
| 1 | Nodule | 31.6 | 0.67 | 6.6 | 26.4 | 3.5 | 11.8 | 1.46 | 0.38 | 82.52 |
| 2 | Bedrock | 52.8 | 0.96 | 10.7 | 17.4 | 9.6 | 2.8 | 4.24 | 0.58 | 99.12 |
| 3 | Nodule | 42.4 | 0.8 | 7.7 | 28.7 | 3.6 | 1.7 | 2.45 | 0.84 | 88.23 |
| 4 | Bedrock | 55 | 1.11 | 12.7 | 18.6 | 4.9 | 3.3 | 2.78 | 1.03 | 99.35 |
| 5 | Bedrock | 38.5 | 0.96 | 7.5 | 17 | 3.6 | 14.6 | 1.38 | 0.39 | 83.93 |

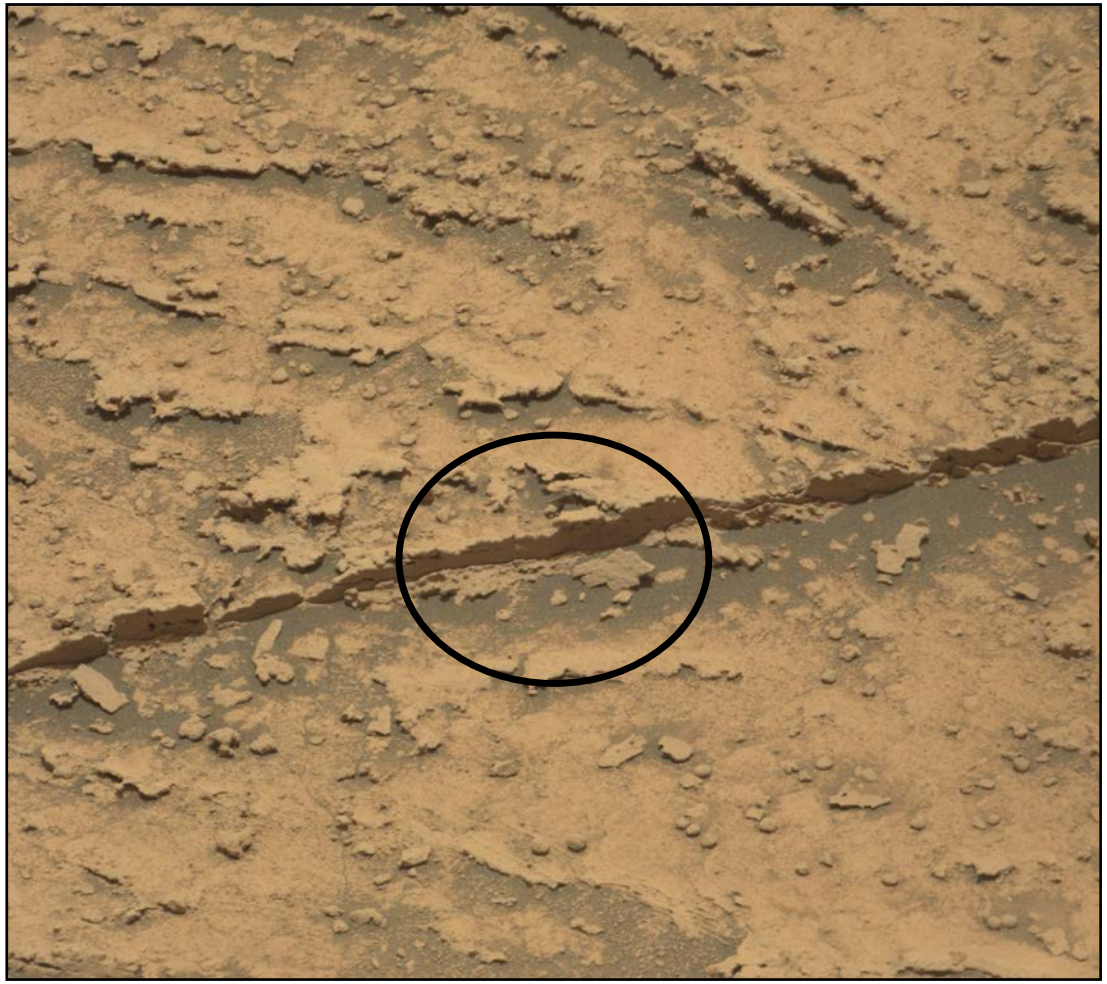
# Target: Unst_Ophiolite

**Sol:** 3344
**Elev (m.):** -3968.09307739869
**CCAM Sequence ID:** CCAM01344

**Whole Target Classification:** Bedrock
**Lamination Strength:** Moderately Laminated
**Lamination Expression:** Laminae-Parallel Nodules
**Grain Visibility:** Below RMI Image Resolution
**Bedrock Appearance:** Dull
**Nodule Presence:** Absent
**Nodule Diameter:** Absent
**Nodule Resistance:** Absent
**Fracture Presence:** Common (~10-20% by Visual Inspection)

| # | Feature | SiO2 (wt%) | TiO2 (wt%) | Al2O3 (wt%) | FeOT (wt%) | MgO (wt%) | CaO (wt%) | Na2O (wt%) | K2O (wt%) | Sum of Oxides (wt%) |
|---|---|---|---|---|---|---|---|---|---|---|
| 1 | Vein or Fracture | 39.1 | 0.86 | 7.2 | 18.8 | 11.2 | 7.9 | 1.31 | 0.23 | 86.64 |
| 2 | Vein or Fracture | 38 | 0.85 | 6.8 | 21.6 | 11.6 | 6 | 1.35 | 0.27 | 86.51 |
| 3 | Vein or Fracture | 42 | 0.89 | 7.8 | 21.1 | 14.9 | 2.2 | 1.5 | 0.37 | 90.81 |
| 4 | Vein or Fracture | 43.6 | 0.75 | 6.9 | 16.5 | 19.9 | 1.5 | 1.45 | 0.48 | 91.12 |
| 5 | Vein or Fracture | 46.5 | 0.84 | 9.8 | 17 | 18.6 | 1.9 | 1.93 | 0.63 | 97.19 |



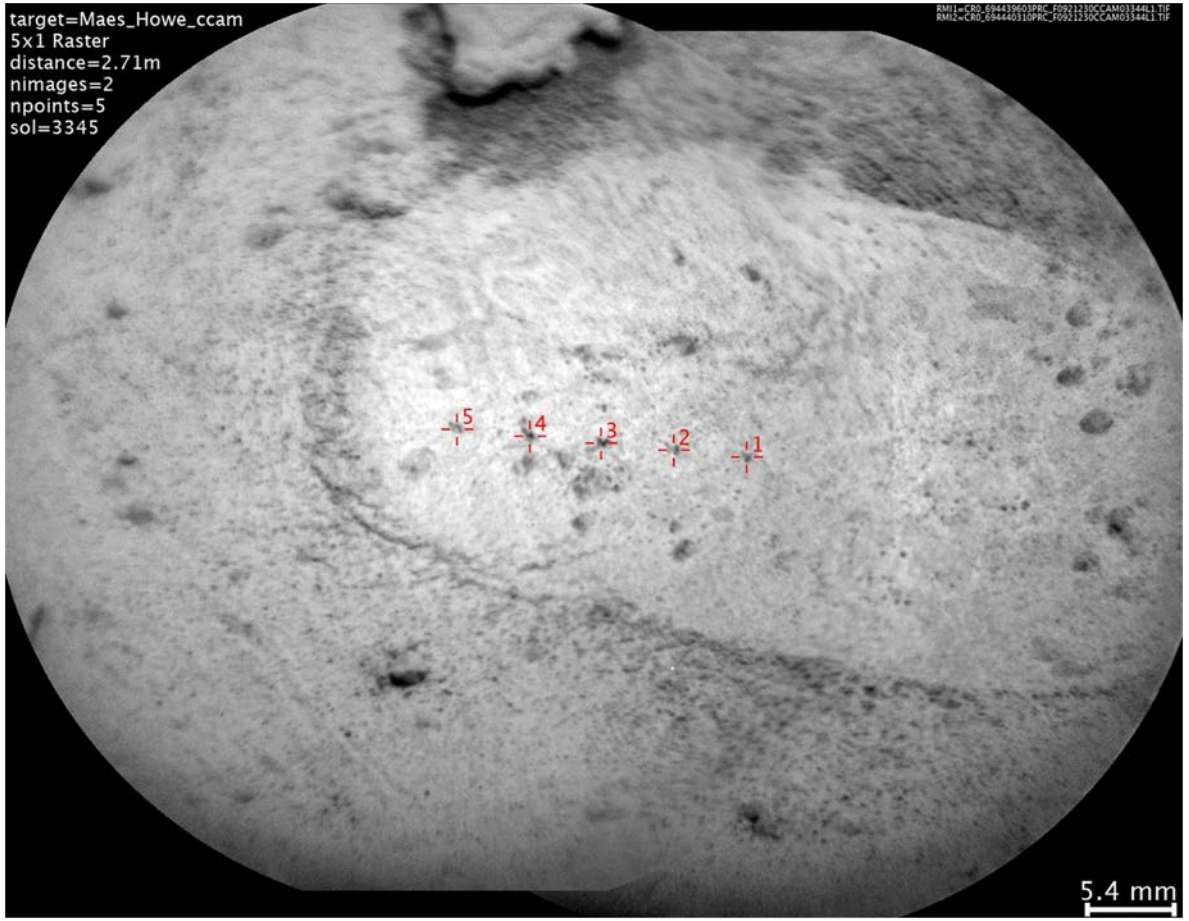



# Target: Maes_Howe_ccam

**Sol:** 3345
**Elev (m.):** -3968.14572010683
**CCAM Sequence ID:** CCAM03344

**Whole Target Classification:** Bedrock
**Lamination Strength:** Absent
**Lamination Expression:** Absent
**Grain Visibility:** Below RMI Image Resolution
**Bedrock Appearance:** Dull
**Nodule Presence:** Occasional (~10% by Visual Inspection)
**Nodule Diameter:** Medium (1 - 3 mm)
**Nodule Resistance:** Protruding
**Fracture Presence:** Absent

| # | Feature | SiO2 (wt%) | TiO2 (wt%) | Al2O3 (wt%) | FeOT (wt%) | MgO (wt%) | CaO (wt%) | Na2O (wt%) | K2O (wt%) | Sum of Oxides (wt%) |
|---|---|---|---|---|---|---|---|---|---|---|
| 1 | Bedrock | 41.5 | 0.88 | 8 | 22.5 | 6.7 | 3.5 | 1.96 | 0.52 | 85.71 |
| 2 | Bedrock | 38.1 | 0.72 | 7.5 | 21.4 | 2.7 | 13.2 | 1.69 | 0.53 | 85.75 |
| 3 | Bedrock | 51.8 | 1.06 | 11.6 | 19.1 | 5.9 | 3.1 | 2.44 | 0.78 | 95.75 |
| 4 | Bedrock | 36.6 | 0.8 | 7.2 | 22.2 | 8 | 9.4 | 1.49 | 0.31 | 86.01 |
| 5 | Bedrock | 31.4 | 0.66 | 4.8 | 13.6 | 4.5 | 19.9 | 0.93 | 0.18 | 75.91 |



# Target: aegis_post_3346a

**Sol:** 3346
**Elev (m.):** -3964.16546264278
**CCAM Sequence ID:** CCAM04344

**Whole Target Classification:** Bedrock
**Lamination Strength:** Absent
**Lamination Expression:** Absent
**Grain Visibility:** Below RMI Image Resolution
**Bedrock Appearance:** Dull
**Nodule Presence:** Common (~30% by Visual Inspection
**Nodule Diameter:** Large (>3 mm)
**Nodule Resistance:** Protruding
**Fracture Presence:** Absent

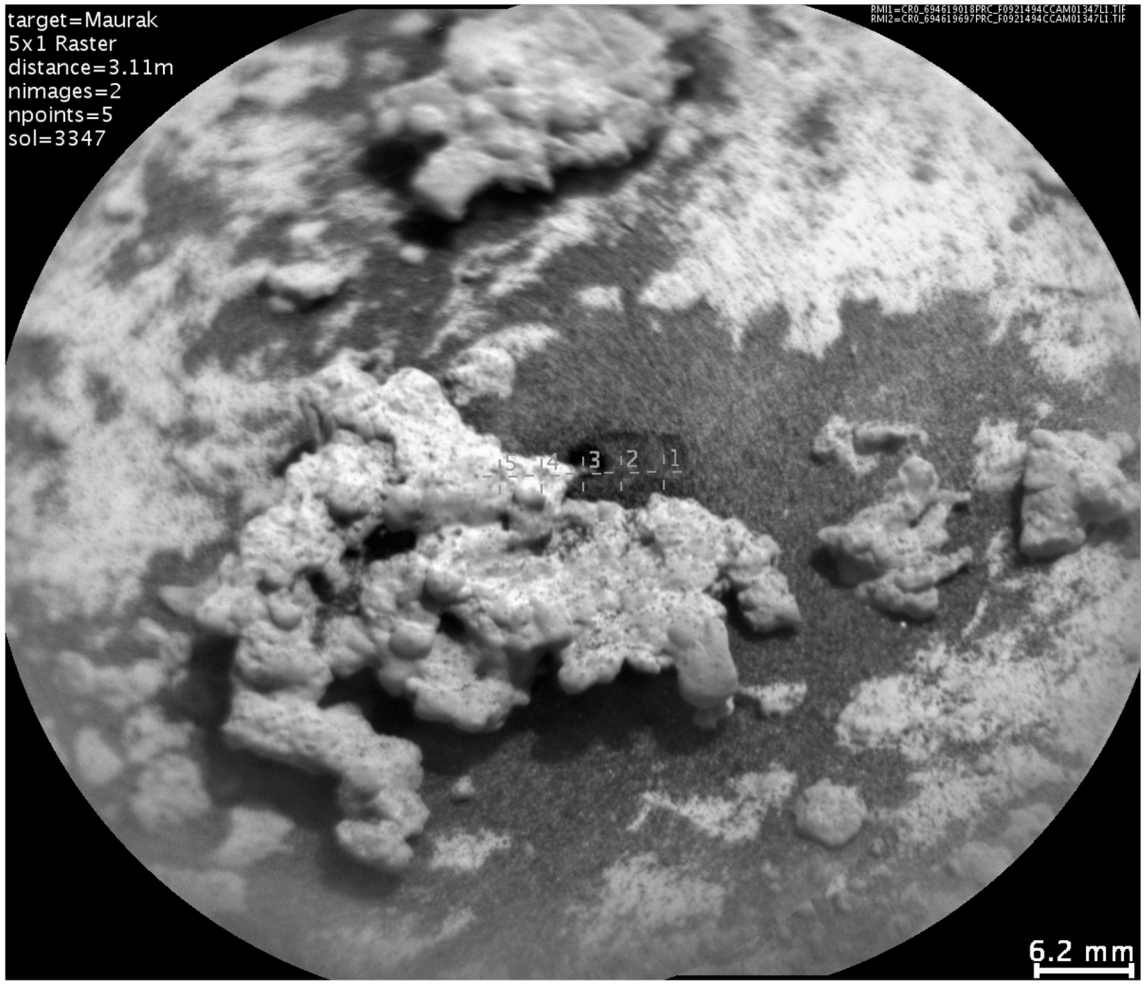
| # | Feature | SiO2 (wt%) | TiO2 (wt%) | Al2O3 (wt%) | FeOT (wt%) | MgO (wt%) | CaO (wt%) | Na2O (wt%) | K2O (wt%) | Sum of Oxides (wt%) |
|---|---|---|---|---|---|---|---|---|---|---|
| 1 | Bedrock | 37 | 0.71 | 7.5 | 12.2 | 2.5 | 21.7 | 1.09 | 0.36 | 83.01 |
| 2 | Bedrock | 44.8 | 0.81 | 9.4 | 17.3 | 3.4 | 12 | 1.79 | 0.58 | 90.11 |
| 3 | Bedrock | 46.7 | 0.9 | 8.7 | 23.6 | 4.1 | 2.5 | 3.56 | 0.8 | 90.84 |
| 4 | Bedrock | 48.4 | 0.71 | 9.1 | 14 | 3.7 | 3.4 | 12.23 | 0.34 | 91.87 |
| 5 | Bedrock | 49.5 | 0.73 | 9.6 | 13.3 | 3 | 2 | 13.37 | 0.32 | 91.84 |

# Target: Maurak

**Sol:** 3347
**Elev (m.):** -3964.06365127874
**CCAM Sequence ID:** CCAM01347

**Whole Target Classification:** Bedrock
**Lamination Strength:** Absent
**Lamination Expression:** Absent
**Grain Visibility:** Below RMI Image Resolution
**Bedrock Appearance:** Dull
**Nodule Presence:** Pervasive (>50% by Visual Inspection)
**Nodule Diameter:** Large (>3 mm)
**Nodule Resistance:** Protruding
**Fracture Presence:** Occasional (<10% by Visual Inspection)

| # | Feature | SiO2 (wt%) | TiO2 (wt%) | Al2O3 (wt%) | FeOT (wt%) | MgO (wt%) | CaO (wt%) | Na2O (wt%) | K2O (wt%) | Sum of Oxides (wt%) |
|---|---|---|---|---|---|---|---|---|---|---|
| 1 | Sand | 43.4 | 0.91 | 9.5 | 19.5 | 7 | 8.1 | 1.94 | 0.33 | 90.71 |
| 2 | Sand | 39.7 | 0.84 | 7.9 | 17.6 | 5.2 | 12.8 | 1.55 | 0.3 | 85.87 |
| 3 | Sand | 37.3 | 0.98 | 7.5 | 18.4 | 3.9 | 13.5 | 1.32 | 0.26 | 83.15 |
| 4 | Nodule | 39.8 | 0.79 | 7.2 | 18.3 | 16 | 5.4 | 1.61 | 0.38 | 89.52 |
| 5 | Nodule | 38 | 0.74 | 6 | 14.9 | 12.9 | 11.7 | 1.13 | 0.28 | 85.62 |



# Target: aegis_post_3348a

**Sol:** 3348
**Elev (m.):** -3962.80827863787
**CCAM Sequence ID:** CCAM04347

**Whole Target Classification:** Bedrock
**Lamination Strength:** Absent
**Lamination Expression:** Absent
**Grain Visibility:** Below RMI Image Resolution
**Bedrock Appearance:** Dull
**Nodule Presence:** Pervasive (>50% by Visual Inspection)
**Nodule Diameter:** Medium (1 - 3 mm)
**Nodule Resistance:** Protruding
**Fracture Presence:** Absent

| # | Feature | SiO2 (wt%) | TiO2 (wt%) | Al2O3 (wt%) | FeOT (wt%) | MgO (wt%) | CaO (wt%) | Na2O (wt%) | K2O (wt%) | Sum of Oxides (wt%) |
|---|---|---|---|---|---|---|---|---|---|---|
| 1 | Nodule | 50.3 | 0.82 | 11.1 | 20.6 | 5.6 | 2.1 | 2.73 | 0.71 | 93.88 |
| 2 | Nodule | 45.1 | 0.83 | 8.8 | 17.8 | 19.6 | 1.5 | 1.64 | 0.43 | 95.65 |
| 3 | Nodule | 43.8 | 0.78 | 8.3 | 17.6 | 19.5 | 1.7 | 2.05 | 0.62 | 94.4 |
| 4 | Nodule | 41 | 0.73 | 8.9 | 30.3 | 3 | 5.1 | 2.02 | 0.64 | 91.76 |
| 5 | Nodule | 44.7 | 0.83 | 8.6 | 28.4 | 6.7 | 1.3 | 1.87 | 0.46 | 92.93 |

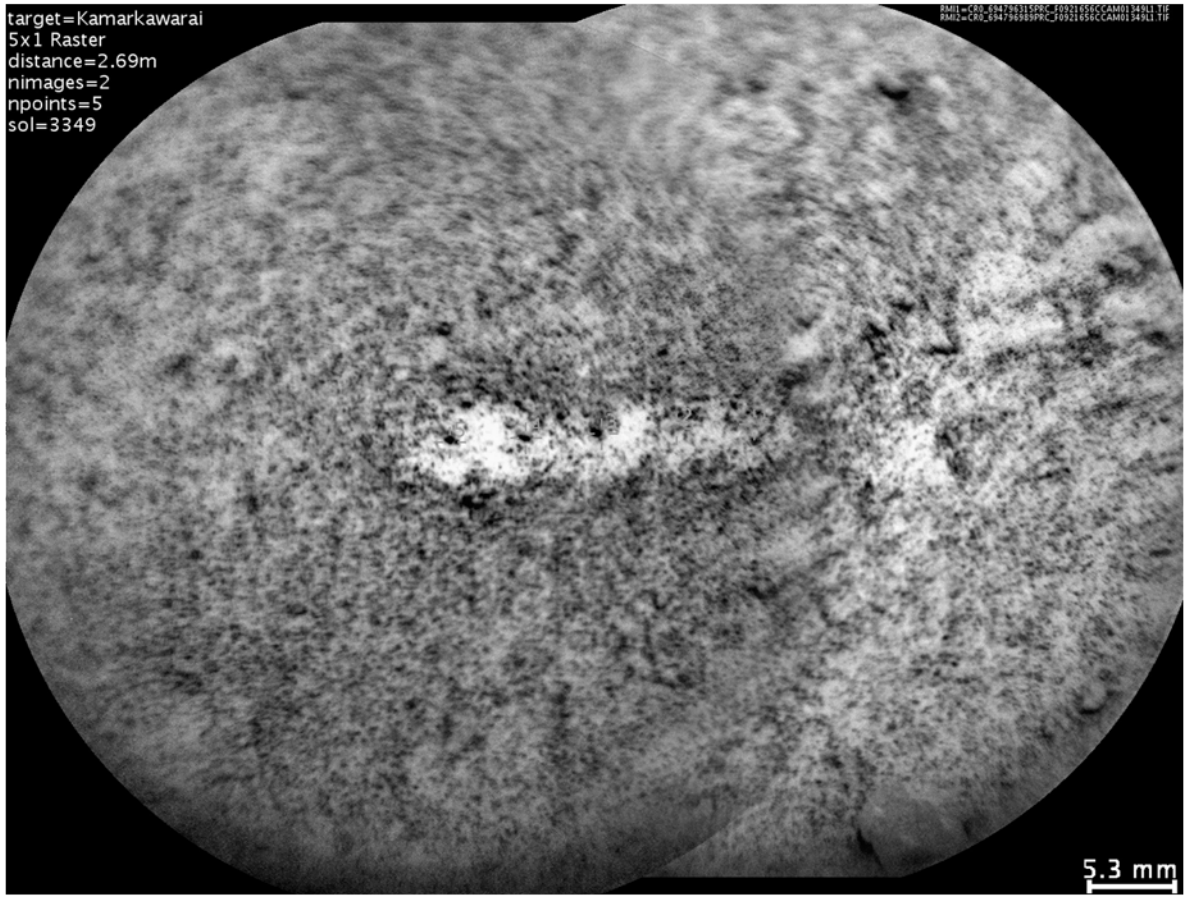
# Target: Kamarkawarai

**Sol:** 3349
**Elev (m.):** -3961.552905997

**CCAM Sequence ID:** CCAM01349

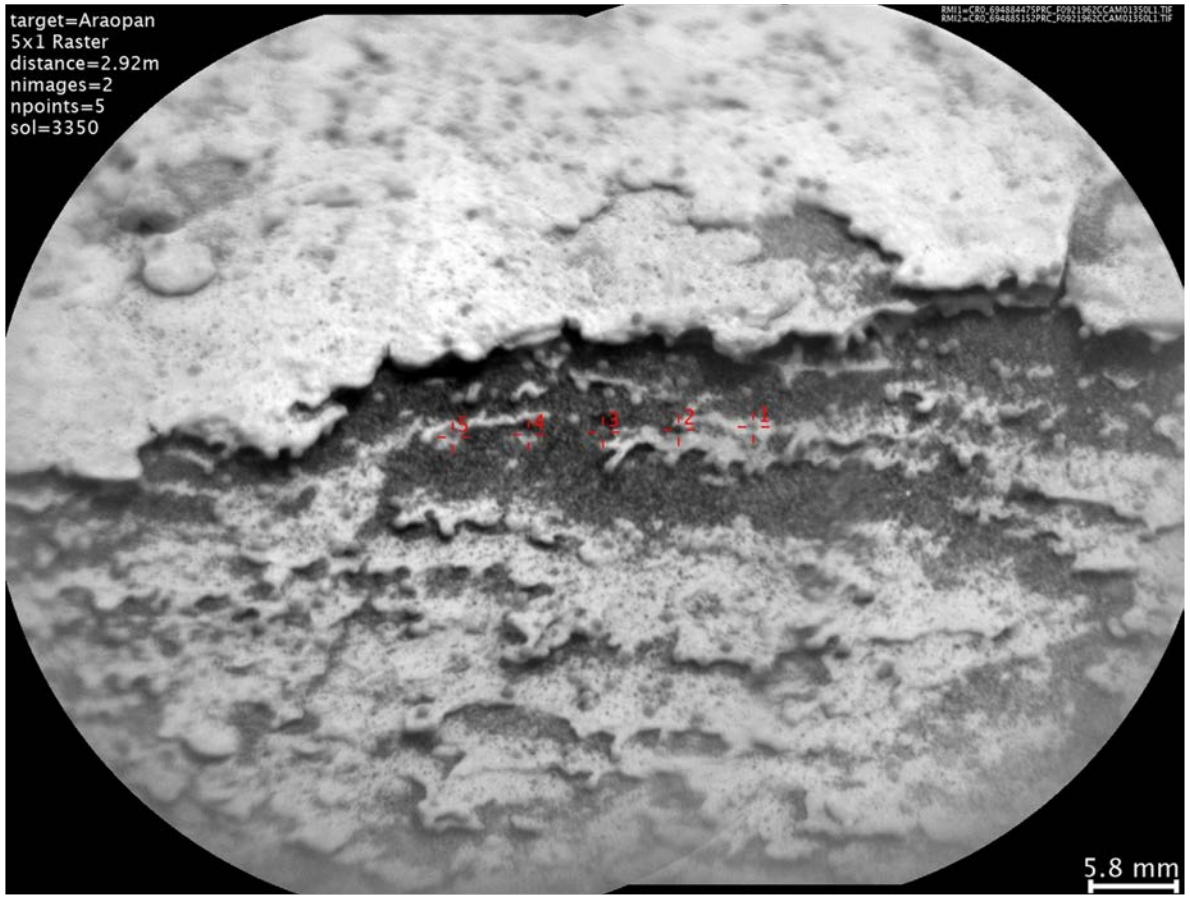
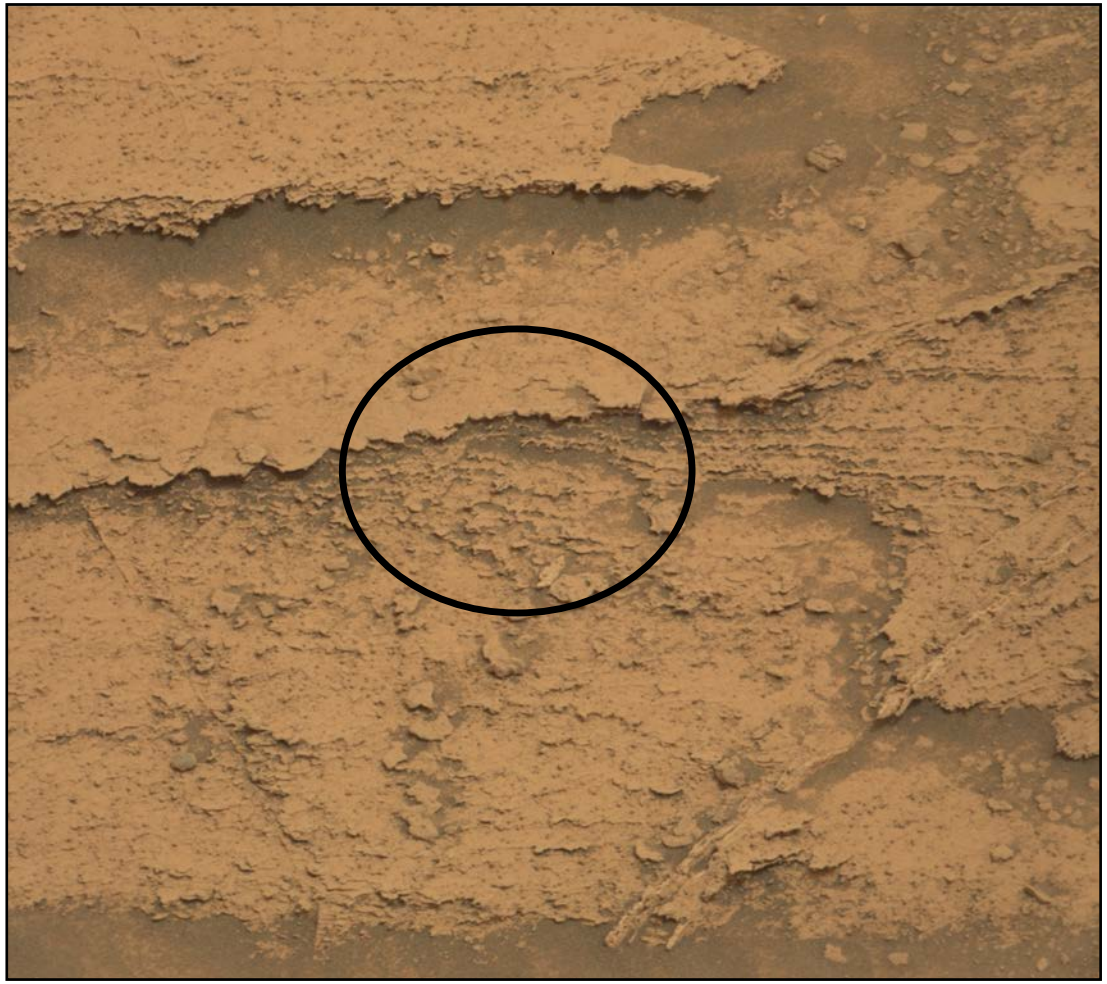
**Whole Target Classification:** Bedrock
**Lamination Strength:** Weakly Laminated
**Lamination Expression:** Laminae-Parallel Nodules
**Grain Visibility:** Above RMI Image Resolution
**Bedrock Appearance:** Dull
**Nodule Presence:** Absent
**Nodule Diameter:** Absent
**Nodule Resistance:** Absent
**Fracture Presence:** Occasional (<10% by Visual Inspection)

| # | Feature | SiO2 (wt%) | TiO2 (wt%) | Al2O3 (wt%) | FeOT (wt%) | MgO (wt%) | CaO (wt%) | Na2O (wt%) | K2O (wt%) | Sum of Oxides (wt%) |
|---|---|---|---|---|---|---|---|---|---|---|
| 1 | Bedrock | 45.3 | 0.78 | 9 | 14.9 | 8.4 | 10.9 | 1.58 | 0.46 | 91.31 |
| 2 | Bedrock | 53.3 | 1.09 | 11.5 | 14.7 | 4.2 | 8.3 | 2.15 | 0.74 | 96.06 |
| 3 | Bedrock | 37.7 | 0.73 | 8.3 | 27.5 | 3 | 9.7 | 1.76 | 0.44 | 89.06 |
| 4 | Bedrock | 43.4 | 0.84 | 9.1 | 27.2 | 4.5 | 1.8 | 2.23 | 0.67 | 89.74 |
| 5 | Bedrock | 49.7 | 0.88 | 10.8 | 19.1 | 4.4 | 2 | 2.37 | 0.78 | 90.02 |



# Target: Araopan

**Sol:** 3350
**Elev (m.):** -3955.84077149962
**CCAM Sequence ID:** CCAM01350

**Whole Target Classification:** Bedrock
**Lamination Strength:** Moderately Laminated
**Lamination Expression:** Laminae-Parallel Nodules
**Grain Visibility:** Below RMI Image Resolution
**Bedrock Appearance:** Dull
**Nodule Presence:** Common (~30% by Visual Inspection
**Nodule Diameter:** Medium (1 - 3 mm)
**Nodule Resistance:** Protruding
**Fracture Presence:** Common (~10-20% by Visual Inspection)

| # | Feature | SiO2 (wt%) | TiO2 (wt%) | Al2O3 (wt%) | FeOT (wt%) | MgO (wt%) | CaO (wt%) | Na2O (wt%) | K2O (wt%) | Sum of Oxides (wt%) |
|---|---|---|---|---|---|---|---|---|---|---|
| 1 | Nodule | 50.1 | 0.84 | 11.7 | 16.1 | 3.4 | 11 | 2.21 | 0.95 | 96.29 |
| 2 | Sand | 40.7 | 0.78 | 7.7 | 34.8 | 2.8 | 1 | 2.09 | 0.74 | 90.53 |
| 3 | Sand | 34 | 0.69 | 6.3 | 12.9 | 2.7 | 21.7 | 0.8 | 0.23 | 79.34 |
| 4 | Nodule | 53.8 | 1.09 | 11.7 | 19.5 | 5.2 | 3.6 | 2.48 | 0.87 | 98.19 |
| 5 | Nodule | 49.7 | 0.89 | 10.9 | 17.5 | 4.2 | 8.7 | 2.06 | 0.74 | 94.59 |