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| **Supplemental Table 2.** Abundance of nonskeletal grains and abundance, size, and sorting of quartz grains in samples collected from carbonate deposits in the Navajo Sandstone.  |
| **SAMPLE #** | **INTRACLAST ABUNDANCE\*** | **OOIDS/ONCOID/PISOID ABUNDANCE\* (F = fecal pellets present)** | **PELOID ABUNDANCE\*** | **QUARTZ**  |
|  |  |  |  | **ABUNDANCE\*** | **SIZE** | **SORTING, ROUNDNESS** |
| 0805001 | 1-3% | < 1%; F | 55-60% | 1-5% | 20-60 μm | well, well |
| 0805002 | 1-2% | n/a | 25-35% | < 1% | 30-50 μm | well, well |
| 0805003† |  |  |  | < 1% |  | n/a; well |
| 0805004 | 1% | n/a | 50-60% | 10% | <10-200 μm | poor, poor to well |
| 0805005 | 1% | n/a | 30-40% | 10% | <10-260 μm | moderate, poor to well |
| 0805006 | 1% | n/a | 10-15% | 10-15% | 10-380 μm | poor, poor to well |
| 0805007 | 1% | n/a | 15% | 10-15% | <10-180 μm | poor, moderate to well |
| 0805008 | 1% | n/a | 10% | 5% | 10-180 μm | moderate, moderate to well |
| 0805009 | 5-7% | 2%; F | 15% | 5-10% | 20-360 μm | moderate, well |
| 0805010 | 5-10% | n/a | 10% | 5% | 10-250 μm | moderate, sub rounded |
| 0805011 | n/a | n/a | 30% | 40% | 10-140 μm | poor, sub rounded to poor |
| 0805012 | <1% | n/a | 50% | 25% | 10-120 μm | poor, poor |
| 0805013 | 2% | n/a | 40% | 25% | 10-120 μm | poor, poor |
| 0805014 | 5% | n/a | 20% | 5% | 10-160 μm | poor, poor to well |
| 0805015\* | 5-10% | n/a | 10-15% | 1-3% | 10-50 μm | well, well |
| 0805016\* | <1% | n/a | 5-10% | 10-15% | 5-190 μm | poor, poor |
| 0805017 | n/a | n/a | 15% | 2-5% | 50-80 μm | poor, moderate  |
| 0805018\* | n/a | n/a | n/a | 35% | 40-60 μm | very well, well |
| 0805019A\* | n/a | n/a | n/a | 75% | 40-60 μm | very well, well |
| 0805019B\* | n/a | n/a | n/a | 75% | 40-60 μm | very well, well |
| 0805020 | 10-15% | n/a | 10-15% | 30-50% | 10-310 μm | poor, well to poor |
| 0805021 | 10% | n/a | n/a | 30% | 10-280 μm | poor, poor to well |
| 0805022† | n/a | n/a | n/a | < 5% | not measured | n/a, subrounded |
| 0805023 | 5-10% | n/a | 15-20% | 10% | 15-220 μm | poor, poor to subrounded |
| 0805024 | n/a | n/a | 10% | 5-10% | 20-140 μm | moderate, sub rounded to well rounded |
| 0805027\* | 40% | n/a | 20% | 15% | 10-80 μm | well, well |
| 0805028\* | 40% | n/a | 20% | 10% | 10-110 μm | moderate, moderate |
| 0805029\* | n/a | 10% | n/a | n/a | n/a | n/a |
| 0805030\* | n/a | <1% | n/a | n/a | n/a | n/a |
| 0805031\* | n/a | <1% | n/a | 10-15% | 10-390 μm | moderate, sub rounded to well |
| 0805032\* | 5% | n/a | n/a | 20% | 15-390 μm | moderate, sub rounded to well |
| 0805034 | 5% | n/a | n/a | 10-15% | 10-310 μm | moderate, sub rounded |
| 0805035 | <1% | n/a; F | n/a | 10-20% |  | poor, poor to sub |
| 0805036 | 5% | n/a | 10% | 20% | 10-210 μm | poor, moderate |
| 0805037 | n/a |   |   | 25% | 10-160 μm | moderate, poor to well |
| 0805039 | n/a | 20-170 μm | n/a | 10-15% | 20-170 μm | moderate, moderate |
| 0805040 | n/a | 10-100 μm | n/a | 10% | 10-100 μm | moderate, moderate |
| 0805041 | 5-10% | 10-90 μm | 5-10% | 2% | 10-90 μm | well, moderate |
| 0805042 | n/a | 25-175 μm; F | n/a | 10-20% | 25-175 μm | moderate, poor to well |
| 0805043 | 5% | 15-225 μm | 5% | 2-3% | 15-225 μm | moderate, moderate |
| 0805044 | 20-30% | 25-325 μm; F | 20-30% | 10-25% | 25-325 μm | poor to moderate, poor to well |
| 0805045 | 15-20% | 25-300 μm; F | 15-20% | 40% | 25-300 μm | poor to moderate, subrounded to very well |
| 0805046 | n/a | 20-170 μm | n/a | 15-20% | 20-170 μm | moderate, moderate |
| 0806047 | 20% | 15-180 μm | 20% | 5-10% | 15-180 μm | poor to moderate, poor to moderate |
| 0805048 | 35% | 10-110 μm | 35% | 5-10% | 10-110 μm | moderate, subrounded |
| 0805049 | 20% | 10-280 μm | 20% | 20% | 10-280 μm | poor, poor to subrounded |
| 1705001 | n/a | n/a | 5% | < 5% | 110 μm | subrounded |

\*Samples from tufa mounds.

n/a: no measurements, or no elements of this type.

† no thin section