

Pinabete Permit Application Package

Table 41.3-5 Comparison of Sediment Yield Pre-mining and Post-mining for Pinabete Arroyo, Cottonwood Arroyo, and Unnamed Tributary to Chaco River

| SEDCAD designation | Watershed location | Area (sq mi) | 2yr-6hr event (0.85 inches) | 10yr-6hr Event (1.28 inches) | 25yr-6hr event (1.56 inches) | 50yr-6hr event (1.76 inches) | 100yr-6hr event (2.04 inches) |
|--------------------|---|--------------|-----------------------------|------------------------------|------------------------------|------------------------------|-------------------------------|
| | | | Sediment yield (tons) | Sediment yield (tons) | Sediment yield (tons) | Sediment yield (tons) | Sediment yield (tons) |
| Structure 7 | Pinabete upstream, pre-mine | 43.88 | 2,703 | 9,489 | 15,694 | 18,130 | 28,885 |
| Structure 9 | Pinabete at mouth, pre-mine | 59.37 | 2,821 | 9,886 | 16,325 | 18,581 | 25,646 |
| Structure 13 | Pinabete at mouth, post-reclamation | 60.83 | 2,252 | 7,839 | 13,223 | 17,349 | 24,210 |
| | | | | | | | |
| Structure 21 | South Fork Cottonwood, pre-mine | 21.08 | 4,561 | 11,292 | 16,455 | 20,341 | 26,631 |
| Structure 21 | South Fork Cottonwood, post-reclamation | 20.80 | 4,774 | 11,791 | 17,141 | 21,456 | 27,964 |
| | | | | | | | |
| Structure 37 | Cottonwood at mouth, pre-mine | 80.11 | 10,744 | 27,242 | 40,586 | 51,493 | 67,180 |
| Structure 37 | Cottonwood at mouth, post-reclamation | 79.19 | 10,915 | 27,932 | 41,715 | 52,790 | 69,580 |
| | | | | | | | |
| Structure 1 | Chaco Trib , pre-mine | 0.45 | 158 | 497 | 788 | 1,023 | 1,380 |
| Structure 1 | Chaco Trib, post-reclamation | 0.98 | 51 | 199 | 336 | 450 | 629 |