

**FACT SHEET APPENDIX - 3
SANDIA PUEBLO WQS**

Water Quality Screen Sandia Pueblo WQS

| | Effluent | Aquatic IWC | Aquatic Chronic Criteria | Aquatic Acute Criteria | Aquatic RP Established Yes/No | Human Health IWC | Fish Consumption | Water Consumption | Human Health RP Established Yes/No | Permit Limit Needed Yes/No |
|----------------|----------|-----------------------------------|--------------------------------|------------------------------|--|------------------------|---------------------|----------------------|--|-------------------------------------|
| Aluminum | 43 ug/l | 10.38 ug/l | 750 ug/l | 750 ug/l | No | 2.73 ug/l | --- | --- | NA | NO |
| Barium | 12.1 | 2.92 | --- | --- | NA | 0.77 | --- | 2000 | No | NO |
| Chromium (III) | 7.72 | 1.86 | 213.74 | 1757.69 | No | 0.49 | --- | 100 | No | NO |
| Chromium (VI) | 7.72 | 1.86 | 10.58 | 15.71 | No | 0.49 | --- | 100 | No | NO |
| Copper | 5.59 | 1.35 | 12.23 | 18.39 | No | 0.35 | 1000 | --- | No | NO |
| Nitrate | 12 | 2.90 | --- | --- | NA | 0.76 | --- | 10000 | No | NO |
| Hardness | 104 | mg/l | | | | | | | | |
| Chromium (III) | Chronic | e[0.8190 (ln{hardness}) + 1.5610] | | | | | | | | |
| Chromium (III) | Acute | e[0.8190 (ln{hardness}) + 3.668] | | | | | | | | |
| Copper | Chronic | e[0.8545 (ln{hardness}) - 1.465] | | | | | | | | |
| Copper | Acute | e[0.9422 (ln{hardness}) - 1.464] | | | | | | | | |

$$IWC = ((FQa \times Ca) + (Qe \times Ce \times 2.13)) \div (FQa + Qe)$$

| | |
|---------|-----------|
| Qe | 5.5 MGD |
| Qa | 43.04 MGD |
| Qa (HH) | 179 MGD |