APPENDIX B

Exclusions Requested for Exceptional Events

Event Date	Site Name/ AQS ID	PM_{10} Data to Exclude ($\mu g/m^3$)	Event Description
7/31/2023	GT/0602 JM/0540 RT/1501 SA/0561 WR/2003	184 180 192 209 187	Thunderstorm outflow boundary created high winds and lofted dust near Yuma, AZ. Dust was transported across southern California and Nevada with stations across the area showing significantly enhanced PM10.
2/21/2023	GT/0602 GV/0298 JM/0540 JN/1019 JO/0075 LH/0299 ME/0044 PM/0043 PV/0073 RT/1501 SA/0561 WJ/0071 WR/2003	160 185 257 172 162 348 240 293 193 295 272 236 314	Mojave dust influenced event affecting the LVV area. Wind speeds in the source region and LVV were well above the 25-mph threshold. Regional and upwind stations show significantly enhanced PM10. Visibility in LVV dips significantly during the high wind period.
10/22/2022	GT/0602 JN/1019 GV/298 JM/0540 JO/0075 LH/0299 ME/0044 PV/0073 PM/0043 RT/1501 SA/0561 WR/2003 WJ/0071 PV/0073	313 225 269 281 230 348 326 232 281 262 270 292 301 244	Mojave dust influenced event affecting the LVV area. Wind speeds in the source region were well above 25 mph. Regionally and upwind stations show significantly enhanced PM10.
9/9/2022	JM/0540 JO/0075 PV/0073 PM/0043 RT/1501 SA/0561 WR2003 WJ/0071 GV/0298	341 429 212 160 238 273 471 229 231	Wind-blown dust from the Sonoran Desert caused by outflow from thunderstorms in northwestern Arizona late on September 8. Dust settles in the LVV area early on September 9 until hurricane winds move the accumulated PM10 out of the area late in the morning on September 9.
9/8/2022	GT/0602 GV/0298 JM/0540 JO/0075 LH/0299 RT/0501 SA/0561 WR/2003 WJ/0071 PM/0043	350 586 445 513 285 569 468 278 307 234	Wind-blown dust from the Sonoran Desert caused by outflow from thunderstorms in northwestern Arizona late on September 8. Dust settles in the LVV area early on September 9 until hurricane winds move the accumulated PM10 out of the area late in the morning on September 9.
5/29/2022	GV/0298 JN/1019 JM/0540 LH/0299 WR/2003 SA/0561	183 218 175 205 179 154	Wind-blown dust from the Mojave moved into the LVV area late on May 28 and settles in the LVV area as wind speeds slow early on May 29. Wind speeds in the source area were well above the 25-mph threshold.

Event Date	Site Name/ AQS ID	PM_{10} Data to Exclude ($\mu g/m^3$)	Event Description
5/28/2022	JN/1019 JM/0540 LH/0299 WR/2003	179 158 169 155	Wind-blown dust from the Mojave moved into the LVV area late on May 28 and settles in the LVV area as wind speeds slow early on May 29. Wind speeds in the source area were well above the 25-mph threshold.
5/8/2022	CC/1502 GV/0298 JN/1019 JM/0540 JO/0075 LH/0299 ME/0044 PV/0073 PM/0043 RT/1501 SA/0561 VV/0024 WR/2003 WJ/0071	200 215 177 196 188 242 258 220 229 219 219 182 249 204	Mojave dust influenced event affecting the LVV area. Wind speeds in the source region and LVV were well above the 25-mph threshold. Regionally and upwind stations show significantly enhanced PM10.
4/11/2022	CC/1502 GV/0298 JN/1019 JM/0540 JO/0075 LH/0299 ME/0044 PV/0073 PM/0043 RT/1501 SA/0561 VV/0024 WR/2003 WJ/0071	318 340 236 300 359 365 259 333 335 339 367 158 396 341	Mojave dust influenced event affecting the LVV area. Wind speeds in the source region and LVV were well above the 25-mph threshold. Regionally and upwind stations show significantly enhanced PM10.
2/21/2022	GT/0602 GV/0298 JN/1019 JM/0540 LH/0299 ME/0044 SA/0561	167 192 197 199 225 158 169	Mojave dust influenced event affected the LVV area. Wind speeds in the source region were well above the 25-mph threshold. PM10 at stations upwind of LVV were significantly enhanced.
10/25/2020	JM/0540 SA/0561	210 163	Strong winds (> 25 mph) upwind and in the LVV associated with a strong cold front from the northwest US. Strong winds influence LVV late in the day. Regionally high PM10.
9/8/2020	PM/0043 WJ/0071 JO/0075 GV/0298 JM/0540 SA/0561 BC/0601 JN/1019	198 159 181 209 302 222 193 162	High winds and wildfire. Unusual combination of exceptionally heavy smoke from CA wildfires on September 7 and 8, followed by a frontal passage from the north with high wind speeds during the early morning hours of September 8. Hourly values of PM2.5 and PM10 reached high concentrations rarely observed in the Clark County monitoring network.