

SOUTHERN UTE INDIAN TRIBE

AMBIENT MONITORING UPDATE

2017

Andrew Switzer, Air Quality Technician
Chris Ellis, Air Quality Analyst

2017 AMBIENT MONITORING UPDATE

- Air monitoring stations:
 - **Ute 1** (Ignacio)
 - **Ute 3** (Bondad)
 - **Mobile Monitoring Station** (Lake Capote)
- Criteria pollutants measured:
 - Ozone
 - Nitrogen Dioxide
 - Carbon Monoxide (Ute 1 only)
 - Sulfur Dioxide (Lake Capote only)
 - PM10 (Ute 3 only)
 - PM2.5 (Ute 3 only)
- Meteorological conditions measured:
 - Wind speed and direction
 - Relative humidity
 - Ambient temperature
 - Solar radiation
 - Precipitation
 - Visibility (Ute 3 only)



LA PLATA CO

ARCHULETA CO

Trust

Capote Creek

Ute 3:
37.10258
-107.870219

Ute 1:
37.13678
-107.62863

MMS (Lake Capote)
37.20495
-107.255

SUIT Boundary

2016_QAAP_station_map_data

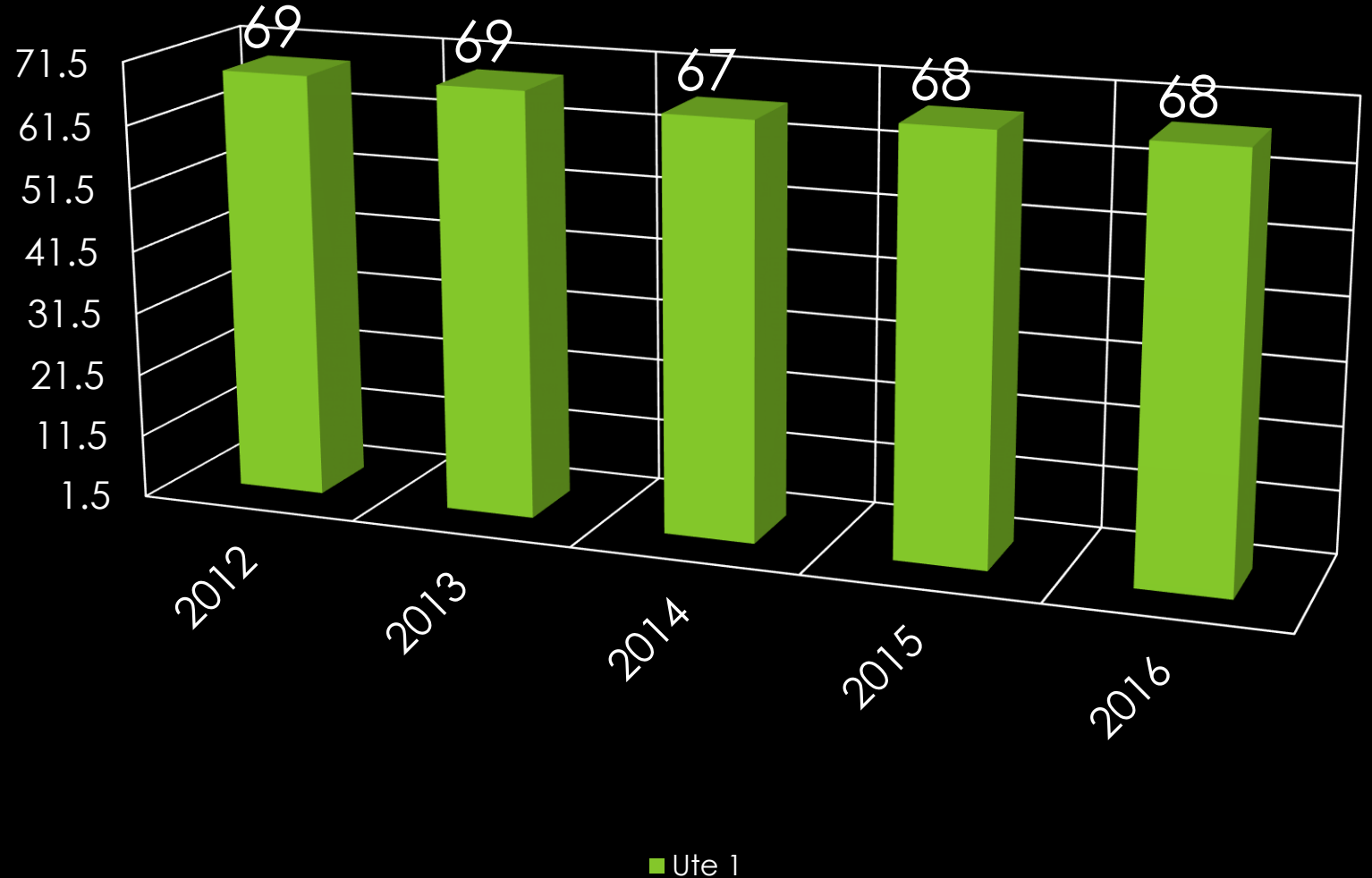
Air Monitoring Stations

AMBIENT MONITORING 2012 – 2016

UTE 1 OZONE DESIGN VALUES

- National Ambient Air Quality Standard: (NAAQS) Ozone: 70 ppb
- Ozone Design Values (Fourth highest maximum averaged over a three year period):
 - Design Values are calculated for each air monitoring station within a county. The highest values reported by an air monitoring station in that county is the Design Value for that county.
- Design values for Ute1 are listed below:
 - **2016: 68**
 - **2015: 68**
 - **2014: 67**
 - **2013: 69**
 - **2012: 69**

Ozone Design Value Concentration (ppb)

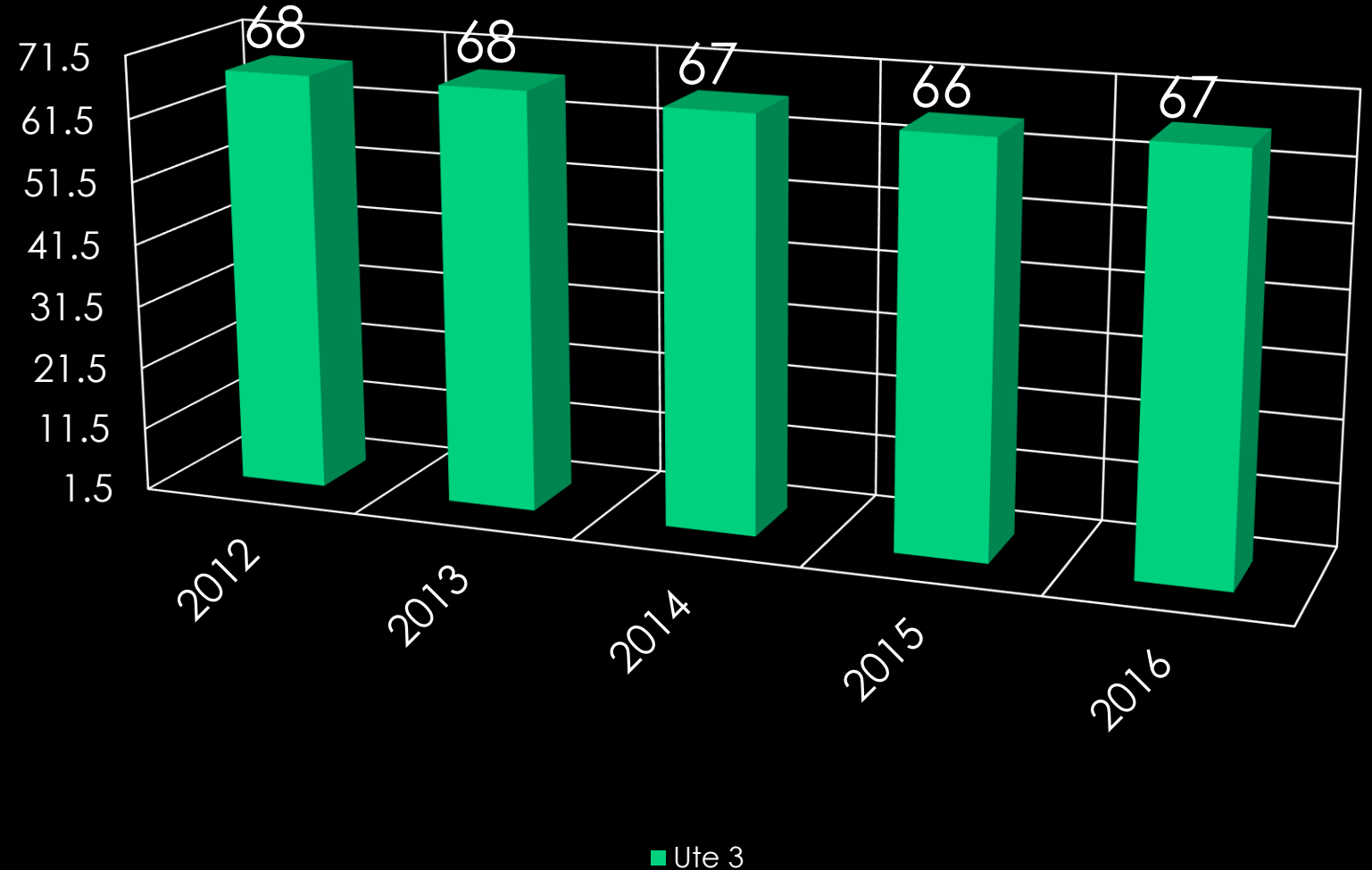


AMBIENT MONITORING 2012 – 2016

UTE 3 OZONE DESIGN VALUES

- National Ambient Air Quality Standard: (NAAQS) Ozone: 70 ppb
- Ozone Design Values
(Fourth highest maximum averaged over a three year period)
- Design values for Ute 3 are listed below:
 - **2016: 67**
 - **2015: 66**
 - **2014: 67**
 - **2013: 68**
 - **2012: 68**

Ozone Design Value Concentration (ppb)



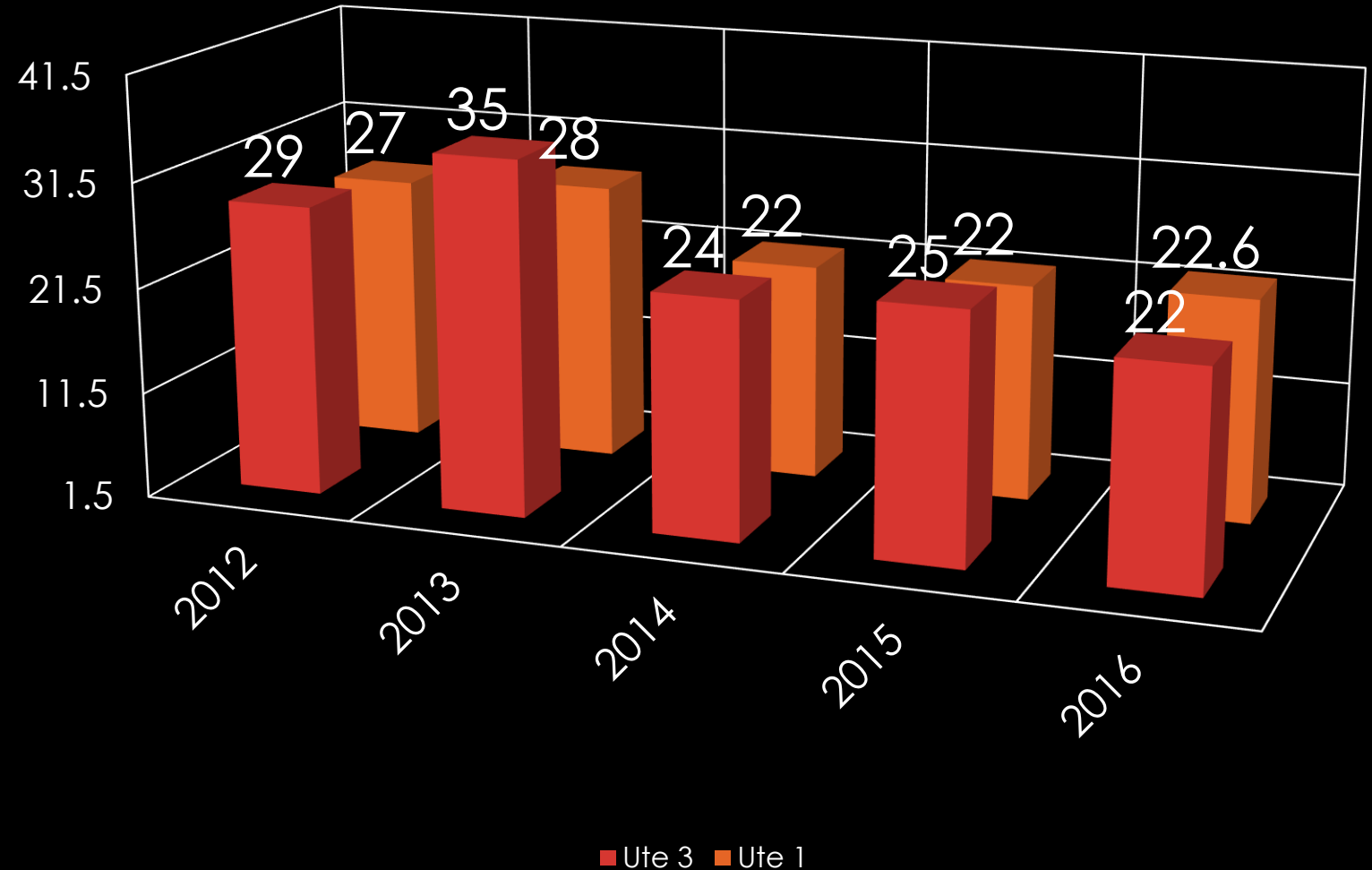
AMBIENT MONITORING 2012 – 2016

NITROGEN DIOXIDE DESIGN VALUES

National Ambient Air Quality
Standard: (NAAQS) NO₂: 100 ppb

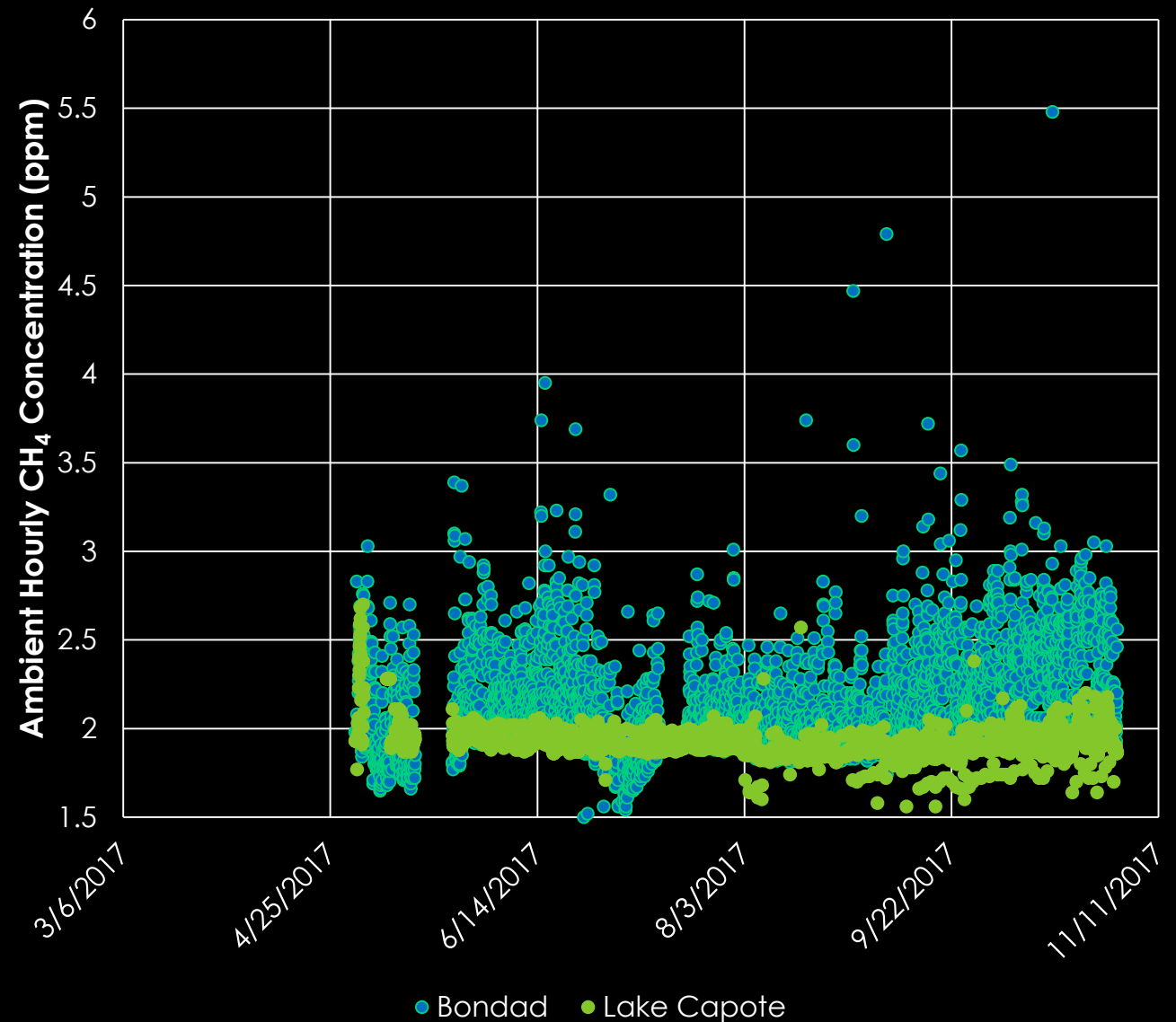
Year	Year 1: 98th Percentile	Year 2: 98th Percentile	Year 3: 98th Percentile	Station
2012	33	35	27	7001
2013	27	33	28	7001
2014	28	27	22	7001
2015	22	28	22	7001
2016	22	22	22.6	7001
2012	38	39	29	7003
2013	29	38	35	7003
2014	35	29	24	7003
2015	24	35	25	7003
2016	25	24	22	7003

NO₂ Design Value Concentration (ppb)



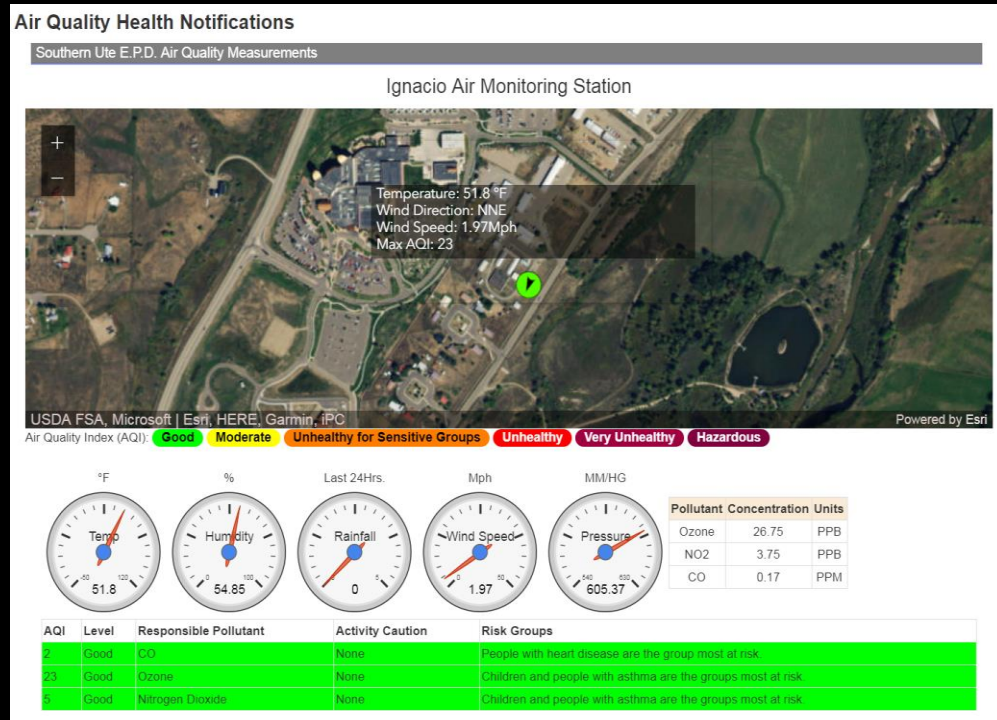
AMBIENT METHANE MONITORING UPDATE

- **Ambient methane is measured at two locations:**
 - Ute 3 air monitoring Station
 - Lake Capote air monitoring station.
 - The lake capote station was setup May 1, 2017.
- Ambient concentrations at both stations are measured using Thermo Scientific methane and non-methane gas analyzers.
- Average Methane concentrations measured:
 - **Bondad:** 2.2ppm
 - **Lake Capote:** 1.8ppm



SOUTHERN UTE INDIAN RESERVATION REAL-TIME AQI AND WEATHER RESOURCES

Southern Ute Air Monitoring web page



US EPA's AirNow Web page: <https://www.airnow.gov/>

