

March 4, 2022  
JN: SO20.1070

Department of Public Works  
County of Imperial  
155 S. 11th Street  
El Centro, CA 92243

Attention: Mr. Jose Castaneda

**FIRST QUARTER 2022 PERIMETER LANDFILL GAS MONITORING REPORT**  
**NINE SOLID WASTE MANAGEMENT FACILITIES**  
**IMPERIAL COUNTY, CALIFORNIA**

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Geo-Logic Associates (GLA) is pleased to submit this landfill gas (LFG) monitoring report for the nine Imperial County Solid Waste Management Facilities (WMF) to fulfill the requirements established in California Code of Regulations (27 CCR), Section 20934 for the monitoring of perimeter soil-pore gas probes. Figure 1 shows the nine (Brawley, Calexico, Holtville, Hot Spa, Imperial, Niland, Ocotillo, Palo Verde, and Picacho) WMF locations as an area plan, and the approximate probe locations at each WMF are shown in Figures 2 through 10.

**Monitoring Procedure**

GLA conducted the LFG monitoring of the nine Imperial County WMFs between February 21 and 24, 2022 using a calibrated Landtec GEM 5000 Gas Analyzer and Extraction Monitor for methane, oxygen, carbon dioxide, and static probe pressure. Initially, at each probe location the GLA technician inspected the monument, valves, and PVC casing for damage. If noted, the observations are recorded on the field monitoring sheet and are summarized with the results. Each landfill gas probe location contained one or more PVC casings screened at depths that were shallow ("A"), intermediate ("B"), and/or deep ("C"). The sample tubing was attached to the probe valve and the sampler recorded the initial probe pressure prior to sampling. To conduct the sampling, each probe was purged a minimum of one casing volume and the concentrations of fixed gases (carbon dioxide, methane, oxygen) had stabilized. Following stabilization of the fixed gases, the results were recorded on a field data sheet along with the balance gas (nitrogen) (Appendix A). The valve was then closed and the sampling equipment was disconnected from the probe. The perimeter probe readings are summarized in Tables 1 through 9.

**Monitoring Results**

The following summarizes the findings of each Imperial County WMF site monitored during the first quarter 2022.

Brawley WMF – Seventeen perimeter probes were monitored at 11 locations (Figure 2) on February 23, 2022. The weather at the time of sampling was 58 degrees Fahrenheit with a barometric pressure of 30.12 inches of mercury. As shown on Table 1, methane was not detected at any of the 17 probe monitoring locations and all results were in compliance with 27 CCR Section 20921. Charts graphically depicting historical gas concentrations of methane, carbon dioxide and oxygen in select wells (P01-A, P02-A, P04R-C and P06-A) are included in Appendix B.

Calexico WMF – Seventeen perimeter probes were monitored at 10 locations (Figure 3) on February 23, 2022. The weather at the time of sampling was 51 degrees Fahrenheit with a barometric pressure of 30.00 inches of mercury. As shown on Table 2, methane was not detected at any of the 17 probe monitoring locations and all results were in compliance with 27 CCR Section 20921. Charts graphically depicting historical gas concentrations of methane, carbon dioxide and oxygen in select wells (P04-A, P05-A, P09-B and P10-C) are included in Appendix B.

Holtville WMF – Eight perimeter probes were monitored at four locations (Figure 4) on February 22, 2022. The weather at the time of sampling was 66 degrees Fahrenheit with a barometric pressure of 29.82 inches of mercury. As shown on Table 3, methane was not detected at any of the eight probe monitoring locations and all results were in compliance with 27 CCR Section 20921. Charts graphically depicting historical gas concentrations of methane, carbon dioxide and oxygen in select wells (P01-A, P02-B, P03-A and P04-B) are included in Appendix B.

Hot Spa WMF – Five perimeter probes were monitored at three locations (Figure 5) on February 24, 2022. The weather at the time of sampling was 52 degrees Fahrenheit with a barometric pressure of 30.41 inches of mercury. As shown on Table 4, methane was not detected at any of the five probe monitoring locations and all results were in compliance with 27 CCR Section 20921. Charts graphically depicting historical gas concentrations of methane, carbon dioxide and oxygen in select wells (P01-A, P02-A, P03-A and P03-C) are included in Appendix B.

Imperial WMF – Twelve perimeter probes were monitored at six locations (Figure 6) on February 23, 2022. The weather at the time of sampling was 50 degrees Fahrenheit with a barometric pressure of 30.03 inches of mercury. As shown on Table 5, methane was not detected at any of the 12 probe monitoring locations and all results were in compliance with 27 CCR Section 20921. Charts graphically depicting historical gas concentrations of methane, carbon dioxide and oxygen in select wells (P01-B, P02-C, P04R-A and P05-A) are included in Appendix B.

Niland WMF – Eleven perimeter probes were monitored at four locations (Figure 7) on February 24, 2022. The weather at the time of sampling was 45 degrees Fahrenheit with a barometric pressure of 30.26 inches of mercury. As shown on Table 6, methane was not detected at any of the 11 probe monitoring locations and all results were in compliance with 27 CCR Section 20921. Charts graphically depicting historical gas concentrations of methane, carbon dioxide and oxygen in select wells (P01-A, P02-C, P03-C and P04-B) are included in Appendix B.

Ocotillo WMF – Eight perimeter probes were monitored at four locations (Figure 8) on February 22, 2022. The weather at the time of sampling was 60 degrees Fahrenheit with a barometric pressure of 29.51 inches of mercury. As shown on Table 7, methane was not detected at any of the eight probe monitoring locations and all results were in compliance with 27 CCR Section 20921. Charts graphically depicting historical gas concentrations of methane, carbon dioxide and oxygen in select wells (P01-A, P02-A, P03-B and P04-B) are included in Appendix B.

Palo Verde WMF – Ten perimeter probes were monitored at four locations (Figure 9) on February 21, 2022. The weather at the time of sampling was 50 degrees Fahrenheit with a barometric pressure of 29.52 inches of mercury. As shown on Table 8, methane was not detected at any of the 10 probe monitoring locations and all results were in compliance with 27 CCR Section 20921. Charts graphically depicting historical gas concentrations of methane, carbon dioxide and oxygen in select wells (P01-C, P02-A, P03-B and P04-C) are included in Appendix B.

Picacho WMF – Ten perimeter probes were monitored at four locations (Figure 10) on February 21, 2022. The weather at the time of sampling was 60 degrees Fahrenheit with a barometric pressure of 29.49 inches of mercury. As shown on Table 9, methane was not detected at any of the 10 probe monitoring locations and all results were in compliance with 27 CCR Section 20921. Charts graphically depicting historical gas concentrations of methane, carbon dioxide and oxygen in select wells (P01-A, P02-C, P03-B and P04-B) are included in Appendix B.

GLA hopes that the information provided herein is sufficient for your records. If you have any questions regarding this report, please call me at (858) 451-1136. Please forward a copy of this report to Mr. Zakary Owens of the Regional Water Quality Control Board and Mr. Chase Choate from the environmental division of the Quechan Tribe for their review. This report will also be uploaded to Geotracker as appendix in the semiannual and/or annual groundwater monitoring report for each site.

Sincerely,  
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Attachments: Figures 1 through 10 – Site/Probe Location Maps  
Tables 1 through 9 – Monitoring Probe Summary Tables  
Appendix A – Soil Pore Gas Field Notes/Calibration Logs  
Appendix B – Time-Series Charts

## FIGURES





FIGURE 1

VICINITY MAP

PERIMETER LFG MONITORING REPORT  
 FIRST QUARTER 2022  
 IMPERIAL COUNTY, CALIFORNIA



DRAFTER/PM: VL/WL DATE: MARCH 2022 JOB NO. S020.1070

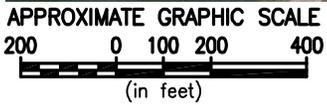


FIGURE 2

BRAWLEY WASTE MANAGEMENT FACILITY  
 PERIMETER LANDFILL GAS PROBE LOCATIONS  
 PERIMETER LFG MONITORING REPORT  
 FIRST QUARTER 2022  
 IMPERIAL COUNTY, CALIFORNIA

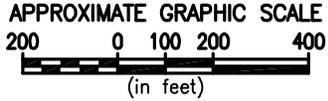


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FIGURE 3



CALEXICO WASTE MANAGEMENT FACILITY  
 PERIMETER LANDFILL GAS PROBE LOCATIONS  
 PERIMETER LFG MONITORING REPORT  
 FIRST QUARTER 2022  
 IMPERIAL COUNTY, CALIFORNIA



DRAFTER/PM: VL/WL DATE: MARCH 2022 JOB NO. S020.1070

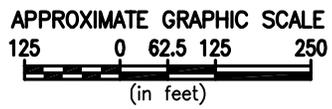


FIGURE 4

HOLTVILLE WASTE MANAGEMENT FACILITY  
 PERIMETER LANDFILL GAS PROBE LOCATIONS  
 PERIMETER LFG MONITORING REPORT  
 FIRST QUARTER 2022  
 IMPERIAL COUNTY, CALIFORNIA



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APPROXIMATE GRAPHIC SCALE  
112.5 0 112.5 225  
(in feet)

FIGURE 5



HOT SPA WASTE MANAGEMENT FACILITY  
PERIMETER LANDFILL GAS PROBE LOCATIONS  
PERIMETER LFG MONITORING REPORT  
FIRST QUARTER 2022  
IMPERIAL COUNTY, CALIFORNIA

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FIGURE 6

APPROXIMATE GRAPHIC SCALE  
 150 0 75 150 300  
 (in feet)

IMPERIAL WASTE MANAGEMENT FACILITY  
 PERIMETER LANDFILL GAS PROBE LOCATIONS  
 PERIMETER LFG MONITORING REPORT  
 FIRST QUARTER 2022  
 IMPERIAL COUNTY, CALIFORNIA



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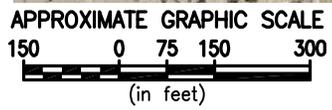


FIGURE 7

NILAND WASTE MANAGEMENT FACILITY  
 PERIMETER LANDFILL GAS PROBE LOCATIONS  
 PERIMETER LFG MONITORING REPORT  
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 IMPERIAL COUNTY, CALIFORNIA



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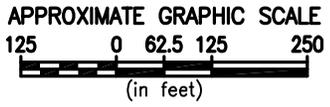


FIGURE 8

OCOTILLO WASTE MANAGEMENT FACILITY  
 PERIMETER LANDFILL GAS PROBE LOCATIONS  
 PERIMETER LFG MONITORING REPORT  
 FIRST QUARTER 2022  
 IMPERIAL COUNTY, CALIFORNIA



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APPROXIMATE GRAPHIC SCALE  
 100 0 50 100 200  
 (in feet)

FIGURE 9



PALO VERDE WASTE MANAGEMENT FACILITY  
 PERIMETER LANDFILL GAS PROBE LOCATIONS  
 PERIMETER LFG MONITORING REPORT  
 FIRST QUARTER 2022  
 IMPERIAL COUNTY, CALIFORNIA

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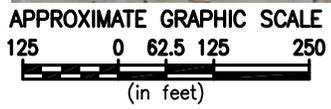


FIGURE 10

PICACHO WASTE MANAGEMENT FACILITY  
 PERIMETER LANDFILL GAS PROBE LOCATIONS  
 PERIMETER LFG MONITORING REPORT  
 FIRST QUARTER 2022  
 IMPERIAL COUNTY, CALIFORNIA



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DRAFTER/PM: VL/WL DATE: MARCH 2022 JOB NO. S020.1070

## TABLES



**TABLE 1 - BRAWLEY WASTE MANAGEMENT FACILITY PERIMETER PROBES**

**DATE:** February 23, 2022

**INSTRUMENTS:** GEM 5000 / SKC Pump

**TIME:** 11:46 AM

**WEATHER CONDITION:** Cloudy / Cold / Windy

**SITE:** Brawley WMF

Temperature ~58°

**TECHNICIAN:** B. Salinas

**BAROMETRIC PRESSURE:** 30.12" Hg

Probe ID	Casing	Screen Interval (feet bgs)	Probe Testing Date	Gas Readings				Probe Pressure (in. Hg)	Comments
				Probe CH4 %	Probe CO2 %	Probe O2 %	Balance		
P01	A	5-10	2/23/2022	0.0	2.4	18.5	79.1	0.0	
P02	A	3-6	2/23/2022	0.0	1.9	18.5	79.6	0.0	
P03	A	3-8	2/23/2022	0.0	0.6	19.6	79.8	0.0	
P04R	A	5-12	2/23/2022	0.0	0.6	19.5	79.9	0.0	
	B	17-24	2/23/2022	0.0	1.4	18.9	79.7	0.0	
	C	29-36	2/23/2022	0.0	11.7	6.6	81.7	0.0	
P04	A	6-14	2/23/2022	0.0	1.1	18.9	80.0	0.0	
	B	19-27	2/23/2022	0.0	1.2	17.7	81.1	0.0	
	C	32-37	2/23/2022	0.0	14.9	6.1	79.0	0.0	
P05	A	6-14	2/23/2022	0.0	0.8	19.7	79.5	0.0	
	B	19-27	2/23/2022	0.0	6.3	13.2	80.5	0.0	
	C	32-40	2/23/2022	0.0	12.0	0.1	87.9	0.0	
P06	A	5-10	2/23/2022	0.0	0.3	20.1	79.6	0.0	
P07	A	3-8	2/23/2022	0.0	1.7	19.3	79.0	0.0	Liquid in probe casing
P08	A	3-8	2/23/2022	0.0	0.5	19.6	79.9	0.0	
P09	A	3-8	2/23/2022	0.0	2.5	18.5	79.0	0.0	
P10	A	5-10	2/23/2022	0.0	1.2	19.1	79.7	0.0	

**Notes:**

\* = the gas percentage measured in the field is either above the instruments recordable range or does not exist and therefore is unrecordable.

NM=Not Measured

ND=Not Detected

**TABLE 2 - CALEXICO WASTE MANAGEMENT FACILITY PERIMETER PROBES**

**DATE:** February 23, 2022

**INSTRUMENTS:** GEM 5000 / SKC Pump

**TIME:** 6:48 AM

**WEATHER CONDITION:** Cloudy / Cold /Rain

**SITE:** Calexico WMF

Temperature ~51°

**TECHNICIAN:** B. Salinas

**BAROMETRIC PRESSURE:** 30.00" Hg

Probe ID	Casing	Screen Interval (feet bgs)	Probe Testing Date	Gas Readings				Probe Pressure (in. Hg)	Comments
				Probe CH4 %	Probe CO2 %	Probe O2 %	Balance		
P01	A	3-8	2/23/2022	0.0	0.3	20.7	79.0	0.0	
P02	A	3-6	2/23/2022	0.0	0.3	20.7	79.0	0.0	
P03	A	3-7	2/23/2022	0.0	2.6	19.1	78.3	0.0	
P04	A	3-8	2/23/2022	0.0	3.8	17.3	78.9	0.0	
P05	A	3-8	2/23/2022	0.0	6.9	14.5	78.6	0.0	
P06	A	3-8	2/23/2022	0.0	1.6	19.5	78.9	0.0	
	B	13-18	2/23/2022	0.0	6.0	16.3	77.7	0.0	
P07	A	6-11	2/23/2022	0.0	5.4	16.0	78.6	0.0	
	B	16-23	2/23/2022	0.0	10.3	13.0	76.7	0.0	
P08	A	6-11	2/23/2022	0.0	0.9	20.5	78.6	0.0	
	B	16-21	2/23/2022	0.0	2.4	18.7	78.9	0.0	
	C	26-31	2/23/2022	0.0	2.3	18.8	78.9	0.0	
P09	A	6-12	2/23/2022	0.0	0.4	21.0	78.6	0.0	
	B	17-27	2/23/2022	0.0	9.0	12.5	78.5	0.0	
P10	A	6-11	2/23/2022	0.0	4.9	15.3	79.8	0.0	
	B	16-21	2/23/2022	0.0	12.2	9.5	78.3	0.0	
	C	26-33	2/23/2022	0.0	0.1	21.2	78.7	0.0	

**Notes:**

\* = the gas percentage measured in the field is either above the instruments recordable range or does not exist and therefore is unrecordable.

NM=Not Measured

ND=Not Detected

**TABLE 3 - HOLTVILLE WASTE MANAGEMENT FACILITY PERIMETER PROBES**

**DATE:** February 22, 2022

**INSTRUMENTS:** GEM 5000 / SKC Pump

**TIME:** 2:52 PM

**WEATHER CONDITION:** Clear / Very Windy

**SITE:** Holtville WMF

Temperature ~66°

**TECHNICIAN:** B. Salinas

**BAROMETRIC PRESSURE:** 29.82" Hg

Probe ID	Casing	Screen Interval (feet bgs)	Probe Testing Date	Gas Readings				Probe Pressure (in. Hg)	Comments
				Probe CH4 %	Probe CO2 %	Probe O2 %	Balance		
P01	A	5-10	2/22/2022	0.0	1.4	19.1	79.5	0.0	
	B	15-30	2/22/2022	0.0	1.7	18.8	79.5	0.0	
P02	A	5-10	2/22/2022	0.0	3.2	17.5	79.3	0.0	
	B	15-30	2/22/2022	0.0	3.4	17.4	79.2	0.0	
P03	A	5-10	2/22/2022	0.0	0.1	20.1	79.8	0.0	
	B	15-30	2/22/2022	0.0	0.0	20.0	80.0	0.0	
P04	A	5-10	2/22/2022	0.0	2.4	18.1	79.5	0.0	
	B	15-30	2/22/2022	0.0	4.9	16.0	79.1	0.0	

**Notes:**

\* = the gas percentage measured in the field is either above the instruments recordable range or does not exist and therefore is unrecordable.

NM=Not Measured

ND=Not Detected

**TABLE 4 - HOT SPA WASTE MANAGEMENT FACILITY PERIMETER PROBES**

**DATE:** February 24, 2022

**INSTRUMENTS:** GEM 5000 / SKC Pump

**TIME:** 10:03 AM

**WEATHER CONDITION:** Clear / Sunny / Cool

**SITE:** Hot Spa WMF

Temperature ~52°

**TECHNICIAN:** B. Salinas

**BAROMETRIC PRESSURE:** 30.41" Hg

Probe ID	Casing	Screen Interval (feet bgs)	Probe Testing Date	Gas Readings				Probe Pressure (in. Hg)	Comments
				Probe CH4 %	Probe CO2 %	Probe O2 %	Balance		
P01	A	5-10	2/24/2022	0.0	0.3	20.3	79.4	0.00	
P02	A	5-10	2/24/2022	0.0	0.0	20.4	79.6	0.00	
	C	15-22	2/24/2022	0.0	0.1	20.0	79.9	0.00	
P03	A	5-10	2/24/2022	0.0	0.2	20.4	79.4	0.00	
	C	15-20	2/24/2022	0.0	0.3	20.3	79.4	0.00	

**Notes:**

\* = the gas percentage measured in the field is either above the instruments recordable range or does not exist and therefore is unrecordable.

NM=Not Measured

ND=Not Detected

**TABLE 5 - IMPERIAL WASTE MANAGEMENT FACILITY PERIMETER PROBES**

**DATE:** February 23, 2022

**TIME:** 9:28 AM

**SITE:** Imperial WMF

**TECHNICIAN:** B. Salinas

**INSTRUMENTS:** GEM 5000 / SKC Pump

**WEATHER CONDITION:** Clear / Sunny / Cool / Windy

Temperature ~50°

**BAROMETRIC PRESSURE:** 30.03" Hg

Probe ID	Casing	Screen Interval (feet bgs)	Probe Testing Date	Gas Readings				Probe Pressure (in. Hg)	Comments
				Probe CH4 %	Probe CO2 %	Probe O2 %	Balance		
P01	A	6-11	2/23/2022	0.0	0.6	20.0	79.4	0.0	
	B	16-25	2/23/2022	0.0	2.1	16.2	81.7	0.0	
	C	30-45	2/23/2022	0.0	2.6	11.3	86.1	0.0	
P02	A	6-11	2/23/2022	0.0	0.1	20.6	79.3	0.0	
	B	16-21	2/23/2022	0.0	0.3	20.4	79.3	0.0	
	C	26-36	2/23/2022	0.0	0.7	19.5	79.8	0.0	
P03	A	5-12	2/23/2022	0.0	0.2	20.6	79.2	0.0	
	B	17-27	2/23/2022	0.0	1.4	19.4	79.2	0.0	
P04R	A	5.25-12	2/23/2022	0.0	1.4	19.4	79.2	0.0	Liquid in probe casing
P05	A	3-6.5	2/23/2022	0.0	8.6	13.0	78.4	0.0	
P06	A	6-11	2/23/2022	0.0	0.3	19.9	79.8	0.0	
	B	16-21	2/23/2022	0.0	3.0	6.3	90.7	0.0	

**Notes:**  
 \* = the gas percentage measured in the field is either above the instruments recordable range or does not exist and therefore is unrecordable.  
 NM=Not Measured  
 ND=Not Detected

**TABLE 6 - NILAND WASTE MANAGEMENT FACILITY PERIMETER PROBES**

**DATE:** February 24, 2022

**INSTRUMENTS:** GEM 5000 / SKC Pump

**TIME:** 7:38 AM

**WEATHER CONDITION:** Clear / Sunny / Cold

**SITE:** Niland WMF

Temperature ~45°

**TECHNICIAN:** B. Salinas

**BAROMETRIC PRESSURE:** 30.26" Hg

Probe ID	Casing	Screen Interval (feet bgs)	Probe Testing Date	Gas Readings				Probe Pressure (in. Hg)	Comments
				Probe CH4 %	Probe CO2 %	Probe O2 %	Balance		
P01	A	6-11	2/24/2022	0.0	0.0	20.9	79.1	0.0	
	B	16-23	2/24/2022	0.0	0.5	20.7	78.8	0.0	
P02	A	6-11	2/24/2022	0.0	1.2	19.0	79.8	0.0	
	B	16-21	2/24/2022	0.0	6.4	16.1	77.5	0.0	
	C	26-31	2/24/2022	0.0	8.2	13.5	78.3	0.0	
P03	A	6-11	2/24/2022	0.0	0.0	20.5	79.5	0.0	
	B	16-23	2/24/2022	0.0	0.4	18.0	81.6	0.0	
	C	28-46	2/24/2022	0.0	10.2	10.5	79.3	0.0	
P04	A	6-11	2/24/2022	0.0	0.2	20.6	79.2	0.0	Probe PO4 has no lock
	B	16-21	2/24/2022	0.0	0.7	20.2	79.1	0.0	
	C	26-42	2/24/2022	0.0	3.2	17.6	79.2	0.0	

**Notes:**

\* = the gas percentage measured in the field is either above the instruments recordable range or does not exist and therefore is unrecordable.

NM=Not Measured

ND=Not Detected

**TABLE 7 - OCOTILLO WASTE MANAGEMENT FACILITY PERIMETER PROBES**

**DATE:** February 22, 2022

**INSTRUMENTS:** GEM 5000 / SKC Pump

**TIME:** 11:05 AM

**WEATHER CONDITION:** Clear / Sunny / Cold / Very Windy

**SITE:** Ocotillo WMF

Temperature ~60°

**TECHNICIAN:** B. Salinas

**BAROMETRIC PRESSURE:** 29.51" Hg

Probe ID	Casing	Screen Interval (feet bgs)	Probe Testing Date	Gas Readings				Probe Pressure (in. Hg)	Comments
				Probe CH4 %	Probe CO2 %	Probe O2 %	Balance		
P01	A	5-10	2/22/2022	0.0	1.0	19.3	79.7	0.0	
	B	15-20	2/22/2022	0.0	1.8	18.5	79.7	0.0	
P02	A	5-10	2/22/2022	0.0	0.0	20.3	79.7	0.0	
	B	15-20	2/22/2022	0.0	0.1	20.3	79.6	0.0	
P03	A	5-10	2/22/2022	0.0	0.1	20.3	79.6	0.0	
	B	20-25	2/22/2022	0.0	0.2	20.1	79.7	0.0	
P04	A	5-10	2/22/2022	0.0	2.4	18.2	79.4	0.0	
	B	15-20	2/22/2022	0.0	2.1	18.3	79.6	0.0	

**Notes:**

\* = the gas percentage measured in the field is either above the instruments recordable range or does not exist and therefore is unrecordable.

NM=Not Measured

ND=Not Detected

**TABLE 8 - PALO VERDE WASTE MANAGEMENT FACILITY PERIMETER PROBES**

**DATE:** February 21, 2022

**INSTRUMENTS:** GEM 5000 / SKC Pump

**TIME:** 8:11 AM

**WEATHER CONDITION:** Overcast / Cold / Windy

**SITE:** Palo Verde WMF

Temperature ~50°

**TECHNICIAN:** B. Salinas

**BAROMETRIC PRESSURE:** 29.52" Hg

Probe ID	Casing	Screen Interval (feet bgs)	Probe Testing Date	Gas Readings				Probe Pressure (in. Hg)	Comments
				Probe CH4 %	Probe CO2 %	Probe O2 %	Balance		
P01	A	5-10	2/21/2022	0.0	0.9	19.2	79.9	0.0	
	B	15-20	2/21/2022	0.0	1.1	19.3	79.6	0.0	
	C	25-35	2/21/2022	0.0	1.7	18.5	79.8	0.0	
P02	A	5-10	2/21/2022	0.0	0.3	20.0	79.7	0.0	
	B	15-20	2/21/2022	0.0	0.1	20.1	79.8	0.0	
P03	A	8-13	2/21/2022	0.0	0.5	19.8	79.7	0.0	
	B	18-23	2/21/2022	0.0	1.1	19.4	79.5	0.0	
P04	A	5-10	2/21/2022	0.0	0.4	19.8	79.8	0.0	
	B	15-20	2/21/2022	0.0	0.5	19.7	79.8	0.0	
	C	25-42	2/21/2022	0.0	1.1	19.3	79.6	0.0	

**Notes:**

\* = the gas percentage measured in the field is either above the instruments recordable range or does not exist and therefore is unrecordable.

NM=Not Measured

ND=Not Detected

**TABLE 9 - PICACHO WASTE MANAGEMENT FACILITY PERIMETER PROBES**

**DATE:** February 21, 2022

**INSTRUMENTS:** GEM 5000 / SKC Pump

**TIME:** 11:32 AM

**WEATHER CONDITION:** Sunny / Cool / Mild Wind

**SITE:** Picacho WMF

Temperature ~60°

**TECHNICIAN:** B. Salinas

**BAROMETRIC PRESSURE:** 29.49" Hg

Probe ID	Casing	Screen Interval (feet bgs)	Probe Testing Date	Gas Readings				Probe Pressure (in. Hg)	Comments
				Probe CH4 %	Probe CO2 %	Probe O2 %	Balance		
P01	A	6-10	2/21/2022	0.0	0.2	19.4	80.4	0.0	
	B	16-23.5	2/21/2022	0.0	0.3	19.3	80.4	0.0	
P02	A	6-10	2/21/2022	0.0	3.4	15.1	81.5	0.0	Flush mount well head buried had to dig out
	B	16-23	2/21/2022	0.0	5.5	13.6	80.9	0.0	
	C	28-37	2/21/2022	0.0	6.5	13.3	80.2	0.0	
P03	A	6-10	2/21/2022	0.0	0.2	19.7	80.1	0.0	
	B	16-24	2/21/2022	0.0	0.3	19.5	80.2	0.0	
	C	30-45	2/21/2022	0.0	0.4	19.3	80.3	0.0	
P04	A	6-10	2/21/2022	0.0	0.0	19.3	80.7	0.0	
	B	16-25	2/21/2022	0.0	0.1	19.3	80.6	0.0	

**Notes:**  
 \* = the gas percentage measured in the field is either above the instruments recordable range or does not exist and therefore is unrecordable.  
 NM=Not Measured  
 ND=Not Detected

**APPENDIX A**

**SOIL PORE GAS FIELD NOTES/CALIBRATION LOGS**



# BRAWLEY SOLID WASTE SITE

DATE 2-23-22 TIME 1146  
 BAROMETRIC PRESSURE 30.12 TEMPERATURE 58° WEATHER CONDITIONS cloudy, windy, cold

ANALYTE	UNITS	P01A	P02A	P03A	P04A	P04B	P04C	P04RA	P04RB	P04RC	P05A	P05B	P05C
INITIAL PROBE PRESSURE		6	6	6	6	6	6	6	6	6	6	6	6
Methane, CH <sub>4</sub>	V%	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Carbon Dioxide, CO <sub>2</sub>	V%	2.4	1.9	0.6	1.1	1.2	14.9	0.6	1.4	11.7	0.8	6.3	12.0
Oxygen, O <sub>2</sub>	V%	18.5	18.5	19.6	18.9	17.7	6.1	19.5	18.9	6.6	19.7	13.2	0.1
Nitrogen, N <sub>2</sub>	V%	79.1	79.6	79.9	80.0	81.1	79.1	79.8	79.8	81.7	79.5	80.5	87.9

ANALYTE	UNITS	P06A	P07A	P08A	P09A	P10A							
INITIAL PROBE PRESSURE		6	6	6	6	6							
Methane, CH <sub>4</sub>	V%	0.0	0.0	0.0	0.0	0.0							
Carbon Dioxide, CO <sub>2</sub>	V%	0.3	1.7	0.5	2.5	1.2							
Oxygen, O <sub>2</sub>	V%	20.1	19.3	19.6	18.5	19.1							
Nitrogen, N <sub>2</sub>	V%	79.6	78.7	79.7	78.9	79.7							

Sampled by Bert Salinas

Instrument Make and Model CHEM 5000

Notes:

P-7A liquid syringe probe casing, tubes are flash mount and stove pipe.

Instrument Name/Model	Serial No.	Gas Standard Used	Pre-Sampling Initial Meter Reading	Calibrated Meter Reading	Cal-Check Meter Reading	Post-Sampling Final Meter Reading	Sampler Filter Replaced? (Y/N)
<u>G1503908</u>	<u>/</u>	15% CH4/B-NIT.	<u>13.1</u>	<u>13.0</u>	<u>13.0</u>		<u>NO</u>
		15% CO2/B-NIT.	<u>14.9</u>	<u>15.0</u>	<u>14.9</u>		<u>↓</u>
		4% O2/B-NIT.	<u>4.2</u>	<u>4.0</u>	<u>4.0</u>		

# CALEXICO SOLID WASTE SITE

DATE 2-23-22 TIME 0648  
 BAROMETRIC PRESSURE 30.00 TEMPERATURE 51° WEATHER CONDITIONS cloudy, cold, rain

ANALYTE	UNITS	P01A	P02A	P03A	P04A	P05A	P06A	P06B	P07A	P07B	P08A	P08B	P08C
INITIAL PROBE PRESSURE		0	0	0	0	0	0	0	0	0	0	0	0
Methane, CH <sub>4</sub>	V%	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Carbon Dioxide, CO <sub>2</sub>	V%	0.3	0.3	2.6	3.8	6.9	1.6	6.0	5.4	10.3	0.9	2.4	2.3
Oxygen, O <sub>2</sub>	V%	20.7	20.7	19.1	17.3	14.5	19.5	16.3	16.0	13.0	20.5	18.7	18.8
Nitrogen, N <sub>2</sub>	V%	79.0	79.0	78.3	78.9	78.7	78.9	77.7	78.6	76.9	78.6	78.9	78.8

ANALYTE	UNITS	P09A	P09B	P10A	P10B	P10C							
INITIAL PROBE PRESSURE		0	0	3'	21'	31'							
Methane, CH <sub>4</sub>	V%	0.0	0.0	0.0	0.0	0.0							
Carbon Dioxide, CO <sub>2</sub>	V%	0.4	9.0	4.9	12.2	0.1							
Oxygen, O <sub>2</sub>	V%	21.0	12.5	15.3	9.5	21.2							
Nitrogen, N <sub>2</sub>	V%	78.6	78.3	79.8	78.2	78.7							

Sampled by AS, Salt way

Instrument Make and Model CIEM 5000

Notes:

P-3 is flush  
P-4 " "

Instrument Name/Model	Serial No.	Gas Standard Used	Pre-Sampling Initial Meter Reading	Calibrated Meter Reading	Cal-Check Meter Reading	Post-Sampling Final Meter Reading	Sampler Filter Replaced? (Y/N)
<u>G503908</u>	<u>/</u>	15% CH <sub>4</sub> /B-NIT.	<u>15.0</u>	<u>15.0</u>	<u>15.0</u>		<u>Y</u>
		15% CO <sub>2</sub> /B-NIT.	<u>14.1</u>	<u>15.0</u>	<u>15.1</u>		
		4% O <sub>2</sub> /B-NIT.	<u>20.8</u>	<u>15.0</u>	<u>14.0</u>		

# HOLTVILLE SOLID WASTE SITE

DATE 2/22/22 TIME 1452  
 BAROMETRIC PRESSURE 29.82 TEMPERATURE 66° WEATHER CONDITIONS clear, very windy.

	UNITS	P01A	P01B	P02A	P02B	P03A	P03B	P04A	P04B
INITIAL PROBE PRESSURE		10'	30'	10'	30'	10'	30'	10'	30'
		←	←	←	←	←	←	←	←
Methane, CH <sub>4</sub>	V%	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Carbon Dioxide, CO <sub>2</sub>	V%	1.4	1.7	3.2	3.4	0.1	0.0	2.4	4.9
Oxygen, O <sub>2</sub>	V%	19.1	18.8	17.5	17.4	20.1	20.0	18.1	16.0
Nitrogen, N <sub>2</sub>	V%	79.5	79.5	79.3	79.1	79.8	79.9	79.4	79.1

Sampled by Bert Salinas

Instrument Make and Model GEM 5000

Notes:

Probes are 3/4" PVC casing.

Instrument Name/Model	Serial No.	Gas Standard Used	Pre-Sampling Initial Meter Reading	Calibrated Meter Reading	Cal-Check Meter Reading	Post-Sampling Final Meter Reading	Sampler Filter Replaced? (Y/N)
<u>GG 503908</u>	/	15% CH <sub>4</sub> /B-NIT.	<u>15.1</u>	<u>15.0</u>	<u>15.1</u>		<u>NO</u>
		15% CO <sub>2</sub> /B-NIT.	<u>14.8</u>	<u>15.0</u>	<u>15.0</u>		<u>↓</u>
		4% O <sub>2</sub> /B-NIT.	<u>3.8</u>	<u>4.0</u>	<u>4.0</u>		<u>↓</u>

# HOT SPA SOLID WASTE SITE

DATE 2-24-72 TIME 1003  
 BAROMETRIC PRESSURE 30.41 TEMPERATURE 52° WEATHER CONDITIONS Clear, Sunny, Cool

	UNITS	P01A	P02A	P02C	P03A	P03C			
INITIAL PROBE PRESSURE		6	6	6	6	6			
Methane, CH <sub>4</sub>	V%	0.0	0.0	0.0	0.0	0.0			
Carbon Dioxide, CO <sub>2</sub>	V%	0.5	0.0	0.1	0.2	0.3			
Oxygen, O <sub>2</sub>	V%	20.3	20.4	20.0	20.4	20.3			
Nitrogen, N <sub>2</sub>	V%	79.2	79.5	80.0	79.4	79.4			

Sampled by Robert Salinas  
 Instrument Make and Model GEM 5000  
 Notes:

All probes are 3/4" PVC casing.

Instrument Name/Model	Serial No.	Gas Standard Used	Pre-Sampling Initial Meter Reading	Calibrated Meter Reading	Cal-Check Meter Reading	Post-Sampling Final Meter Reading	Sampler Filter Replaced? (Y/N)
<u>G503908</u>	/	15% CH <sub>4</sub> /B-NIT.	<u>14.9</u>	<u>15.0</u>	<u>15.0</u>		<u>NO</u> ↓
		15% CO <sub>2</sub> /B-NIT.	<u>15.3</u>	<u>15.0</u>	<u>15.0</u>		
		4% O <sub>2</sub> /B-NIT.	<u>3.0</u>	<u>4.0</u>	<u>4.0</u>		

# IMPERIAL SOLID WASTE SITE

DATE 2-23-22 TIME 0928  
 BAROMETRIC PRESSURE 30.03 TEMPERATURE 56.5 WEATHER CONDITIONS Clear, sunny, cold, windy

ANALYTE	UNITS	P01A	P01B	P01C	P02A	P02B	P02C	P03A	P03B	P04RA	P05A	P06A	P06B
INITIAL PROBE PRESSURE		←	←	←	←	←	←	←	←	←	←	←	←
Methane, CH <sub>4</sub>	V%	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Carbon Dioxide, CO <sub>2</sub>	V%	0.6	2.1	2.6	0.1	0.3	0.7	0.2	1.4	1.4	8.6	0.3	3.0
Oxygen, O <sub>2</sub>	V%	20.0	16.2	11.3	20.5	20.4	19.5	20.6	19.4	19.4	13.0	19.9	6.3
Nitrogen, N <sub>2</sub>	V%	79.4	81.7	86.1	79.3	79.3	79.8	79.2	79.1	79.2	78.4	79.8	90.9

Sampled by B. Salinas

Instrument Make and Model REM5000

Notes:

P-2C is plugged, flow restriction on the REM.

↓  
liquid inside  
probe casing.

Instrument Name/Model	Serial No.	Gas Standard Used	Pre-Sampling Initial Meter Reading	Calibrated Meter Reading	Cal-Check Meter Reading	Post-Sampling Final Meter Reading	Sampler Filter Replaced? (Y/N)
<u>G50390F</u>	<u>1</u>	15% CH <sub>4</sub> /B-NIT.	<u>15.0</u>	<u>15.0</u>	<u>15.0</u>		↓
		15% CO <sub>2</sub> /B-NIT.	<u>14.1</u>	<u>15.0</u>	<u>15.1</u>		↓
		4% O <sub>2</sub> /B-NIT.	<u>3.8</u>	<u>4.0</u>	<u>4.0</u>		↓

# NILAND SOLID WASTE SITE

DATE 7-24-22 TIME 0738  
 BAROMETRIC PRESSURE 30.26 TEMPERATURE 45° WEATHER CONDITIONS Clear, Sunny, Cold

ANALYTE	UNITS	P01A	P01B	P02A	P02B	P02C	P03A	P03B	P03C	P04A	P04B	P04C
INITIAL PROBE PRESSURE		<u>C</u>	<u>G</u>	<u>E</u>	<u>G</u>	<u>E</u>	<u>G</u>	<u>E</u>	<u>E</u>	<u>E</u>	<u>E</u>	
Methane, CH <sub>4</sub>	V%	<u>0.0</u>										
Carbon Dioxide, CO <sub>2</sub>	V%	<u>0.0</u>	<u>0.5</u>	<u>1.2</u>	<u>6.4</u>	<u>8.2</u>	<u>28.9</u>	<u>0.4</u>	<u>10.2</u>	<u>0.2</u>	<u>0.7</u>	<u>3.2</u>
Oxygen, O <sub>2</sub>	V%	<u>20.9</u>	<u>20.7</u>	<u>19.0</u>	<u>16.1</u>	<u>13.5</u>	<u>20.5</u>	<u>18.0</u>	<u>10.5</u>	<u>20.6</u>	<u>20.2</u>	<u>17.6</u>
Nitrogen, N <sub>2</sub>	V%	<u>78.9</u>	<u>78.8</u>	<u>79.8</u>	<u>77.7</u>	<u>78.4</u>	<u>79.3</u>	<u>81.5</u>	<u>79.3</u>	<u>79.1</u>	<u>79.0</u>	<u>79.2</u>

Sampled by Bert Salinas

Instrument Make and Model GEN 5000

Notes:

All probes are 3/4" PVC casing  
P-4 has no leak.

Instrument Name/Model	Serial No.	Gas Standard Used	Pre-Sampling Initial Meter Reading	Calibrated Meter Reading	Cal-Check Meter Reading	Post-Sampling Final Meter Reading	Sampler Filter Replaced? (Y/N)
<u>G50390F</u>		15% CH <sub>4</sub> /B-NIT.	<u>14.9</u>	<u>15.0</u>	<u>15.0</u>		<u>N</u>
		15% CO <sub>2</sub> /B-NIT.	<u>15.3</u>	<u>15.0</u>	<u>15.0</u>		<u>N</u>
		4% O <sub>2</sub> /B-NIT.	<u>19.9</u>	<u>19.0</u>	<u>19.0</u>		<u>N</u>

# OCOTILLO SOLID WASTE SITE

DATE 2-22-77 TIME 1105  
 BAROMETRIC PRESSURE 29.51 TEMPERATURE 60.5 WEATHER CONDITIONS Sunny, cold, very windy

ANALYTE	UNITS	P01A	P01B	P02A	P02B	P03A	P03B	P04A	P04B			
		10'	20'	10'	20'	10'	20'	10'	20'			
INITIAL PROBE PRESSURE		←	←	←	←	←	←	←	←			
Methane, CH <sub>4</sub>	V%	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0			
Carbon Dioxide, CO <sub>2</sub>	V%	1.0	1.8	0.0	0.1	0.1	0.2	2.4	2.1			
Oxygen, O <sub>2</sub>	V%	19.3	18.5	20.3	20.3	20.3	20.1	18.2	18.3			
Nitrogen, N <sub>2</sub>	V%	79.7	79.7	79.6	79.6	79.6	79.7	79.4	79.5			

Sampled by Bert Salinas

Instrument Make and Model GEM 5000

Notes:  
Probes are 3/4" PVC casing.

Instrument Name/Model	Serial No.	Gas Standard Used	Pre-Sampling Initial Meter Reading	Calibrated Meter Reading	Cal-Check Meter Reading	Post-Sampling Final Meter Reading	Sampler Filter Replaced? (Y/N)
<u>G503908</u>		15% CH <sub>4</sub> /B-NIT.	<u>14.8</u>	<u>15.0</u>	<u>15.0</u>		<u>N</u>
		15% CO <sub>2</sub> /B-NIT.	<u>14.9</u>	<u>15.0</u>	<u>15.0</u>		<u>N</u>
		4% O <sub>2</sub> /B-NIT.	<u>4.1</u>	<u>4.0</u>	<u>4.0</u>		<u>N</u>

# PALO VERDE SOLID WASTE SITE

DATE Feb. 21, 2022 TIME 0811  
 BAROMETRIC PRESSURE 29.52 TEMPERATURE 50's WEATHER CONDITIONS Cold, windy, overcast

10' 20' 35' 10ft. 20ft. 13' 23' 10' 20' 42' 3/4" 2uc all probes

	UNITS	P01A	P01B	P01C	P02A	P02B	P03A	P03B	P04A	P04B	P04C
INITIAL PROBE PRESSURE	H <sub>2</sub> O	←	←	←	-0.4	←	-0.65	←	-0.18	-0.87	←
Methane, CH <sub>4</sub>	V%	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Carbon Dioxide, CO <sub>2</sub>	V%	0.9	1.1	1.7	0.3	0.1	0.5	1.1	0.4	0.5	1.1
Oxygen, O <sub>2</sub>	V%	19.2	19.3	18.5	20.0	20.1	19.8	19.4	19.8	19.7	19.3
Nitrogen, N <sub>2</sub>	V%	79.9	79.7	79.7	79.7	79.8	79.6	79.5	79.7	79.7	79.6

Sampled by Bert Salinas

Instrument Make and Model GEM 5000

Notes:

Instrument Name/Model	Serial No.	Gas Standard Used	Pre-Sampling Initial Meter Reading	Calibrated Meter Reading	Cal-Check Meter Reading	Post-Sampling Final Meter Reading	Sampler Filter Replaced?(Y/N)
<u>G503908</u>	<u>✓</u>	15% CH <sub>4</sub> /B-NIT.	<u>14.3</u>	<u>15.0</u>	<u>15.0</u>		<u>NO</u>
		15% CO <sub>2</sub> /B-NIT.	<u>14.9</u>	<u>15.0</u>	<u>15.1</u>		<u>↓</u>
		4% O <sub>2</sub> /B-NIT.	<u>4.1</u>	<u>4.0</u>	<u>4.0</u>		<u>↓</u>

# PICACHO SOLID WASTE SITE

DATE Feb. 21, 2022 TIME 1132  
 BAROMETRIC PRESSURE 29.49 TEMPERATURE 60.3 WEATHER CONDITIONS Sunny cool, Mild winds  
210' 23' 10' 24' 45' 10' 25' (3/4" PVC casing 611)

	UNITS	P01A	P01B	P02A	P02B	P02C	P03A	P03B	P03C	P04A	P04B
INITIAL PROBE PRESSURE		←	←	←	←	←	←	←	←	←	←
Methane, CH <sub>4</sub>	V%	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Carbon Dioxide, CO <sub>2</sub>	V%	0.2	0.3	3.4	5.5	6.5	0.2	0.3	0.4	0.0	0.1
Oxygen, O <sub>2</sub>	V%	19.4	19.3	15.1	13.6	13.3	19.7	19.5	19.3	19.3	19.3
Nitrogen, N <sub>2</sub>	V%	80.4	80.4	81.4	80.9	80.2	80.1	80.2	80.3	80.7	80.7

Sampled by Bert Salinas  
 Instrument Make and Model GEM 5000  
 Notes:

Instrument Name/Model	Serial No.	Gas Standard Used	Pre-Sampling Initial Meter Reading	Calibrated Meter Reading	Cal-Check Meter Reading	Post-Sampling Final Meter Reading	Sampler Filter Replaced? (Y/N)
<u>G502908</u>	✓	15% CH <sub>4</sub> /B-NIT.	<u>14.8</u>	<u>15.0</u>	<u>15.0</u>		<u>No</u>
		15% CO <sub>2</sub> /B-NIT.	<u>19.9</u>	<u>19.0</u>	<u>19.0</u>		<u>↓</u>
		4% O <sub>2</sub> /B-NIT.	<u>9.1</u>	<u>9.0</u>	<u>9.1</u>		<u>↓</u>

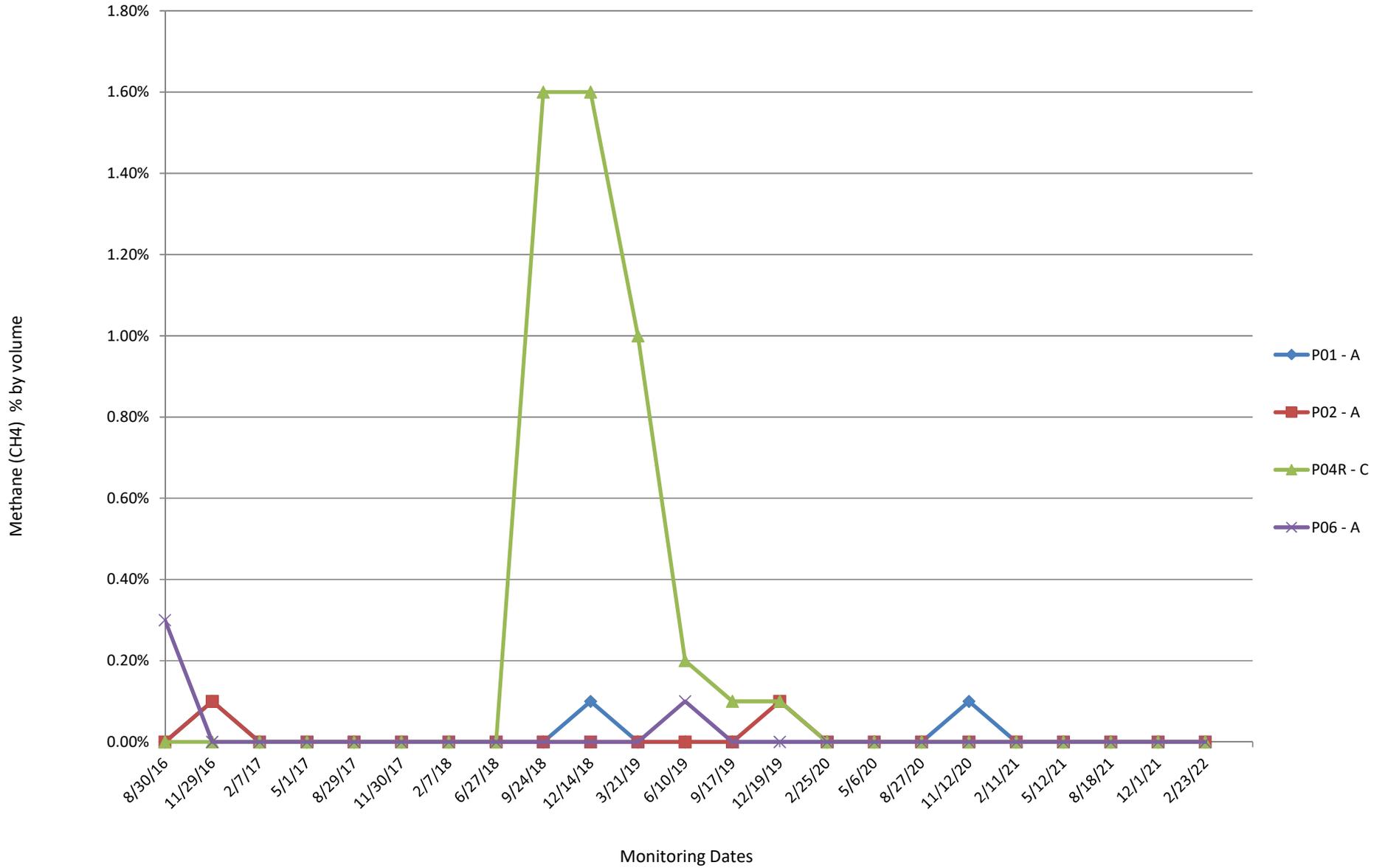
P-1 flush mount  
 P-2 is flush mount. Found buried, had to dig out.  
 P-4 " "

## **APPENDIX B**

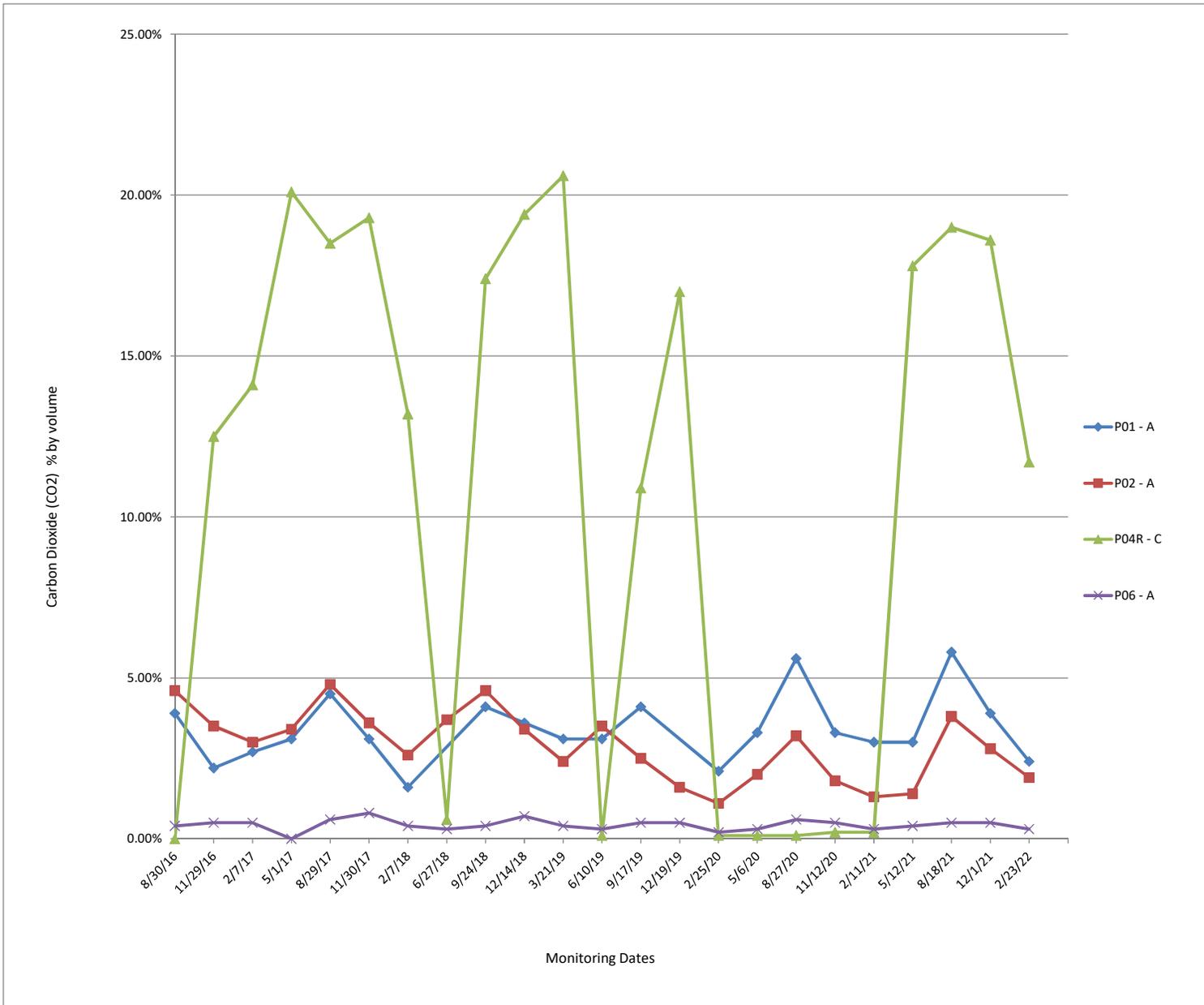
### **TIME-SERIES CHARTS**



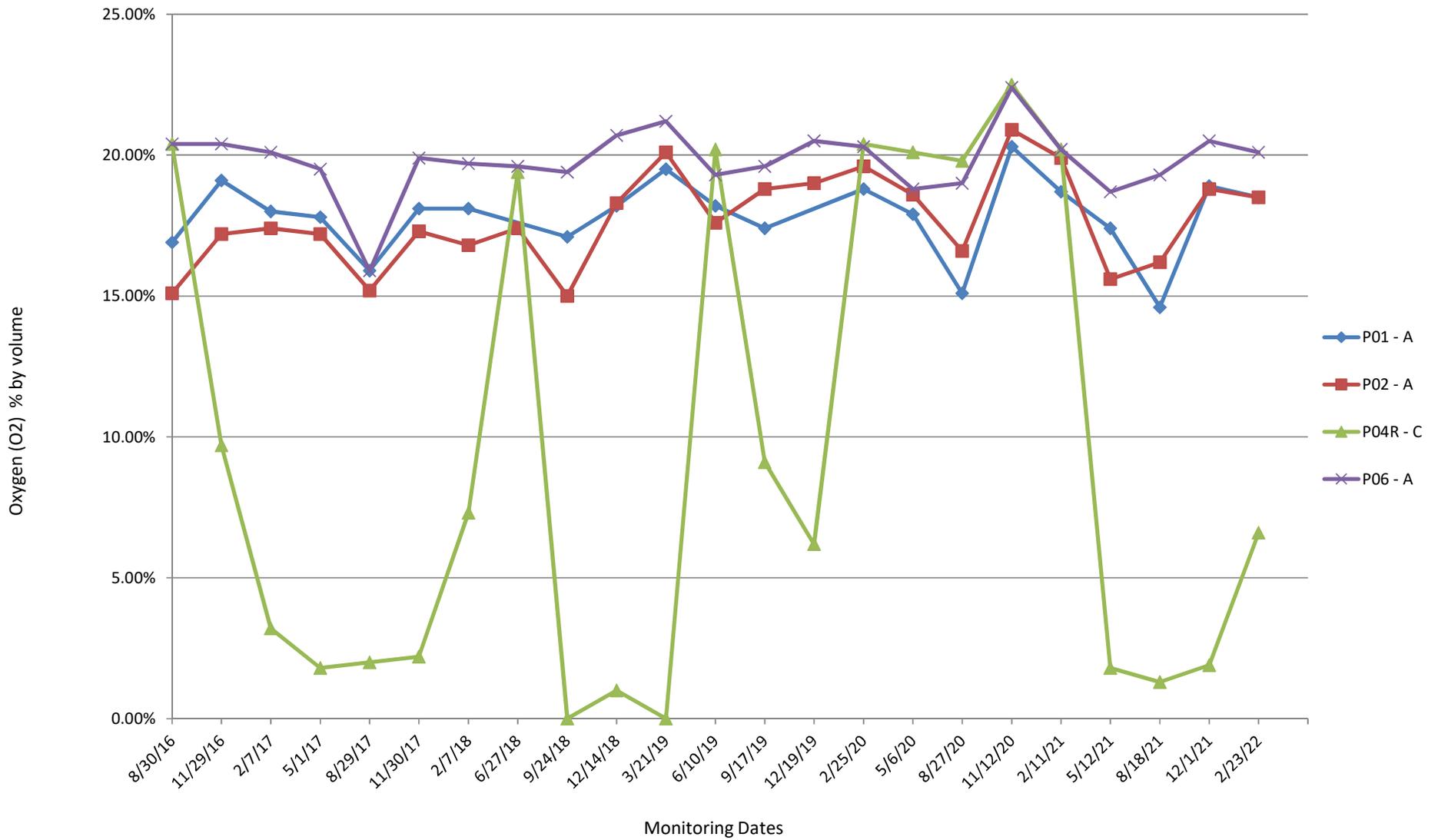
**Chart 1**  
**Brawley Solid Waste Landfill**  
**Methane Percentages in Monitoring Probes**



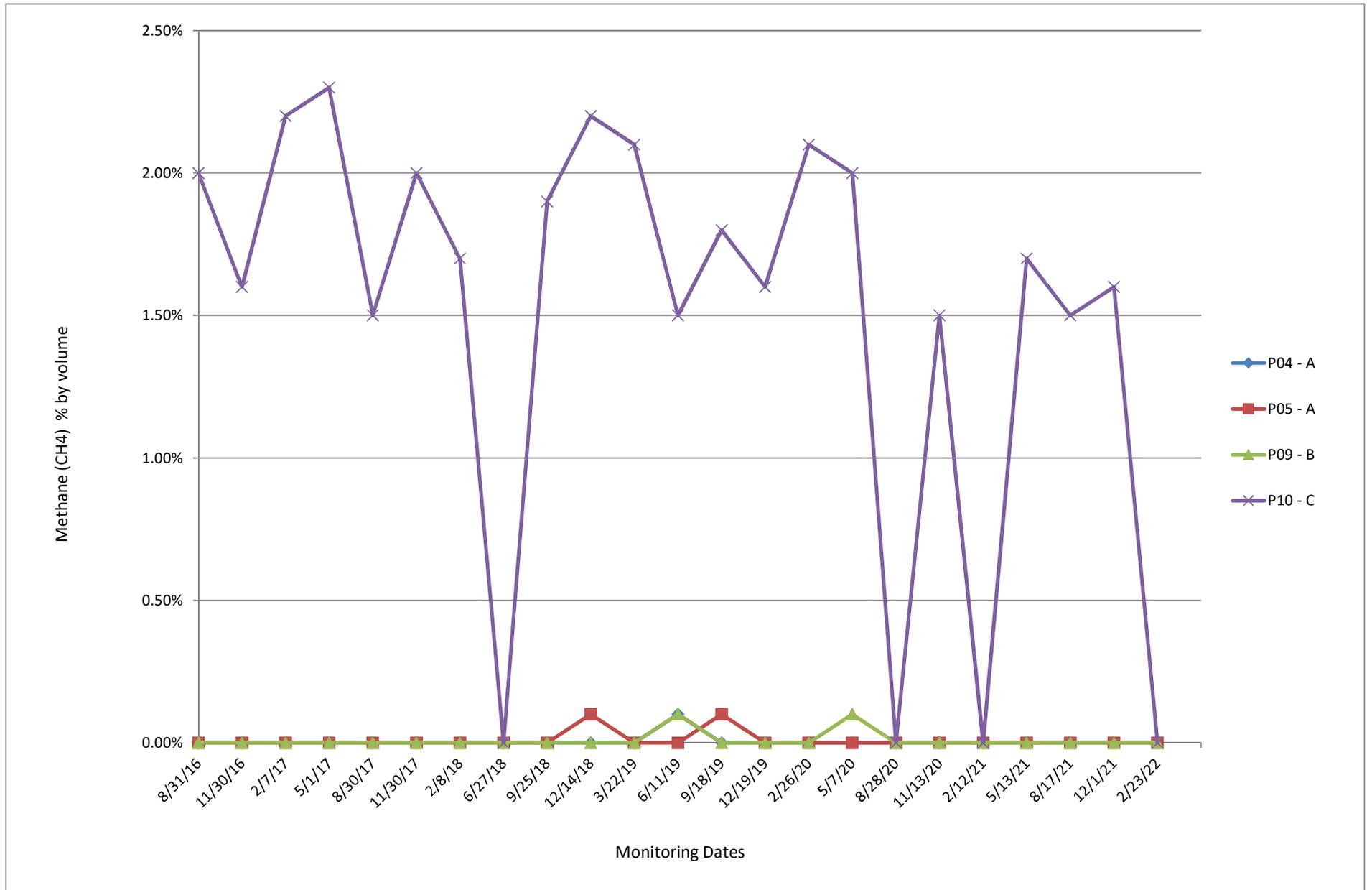
**Chart 2**  
**Brawley Solid Waste Landfill**  
**Carbon Dioxide Percentages in Monitoring Probes**



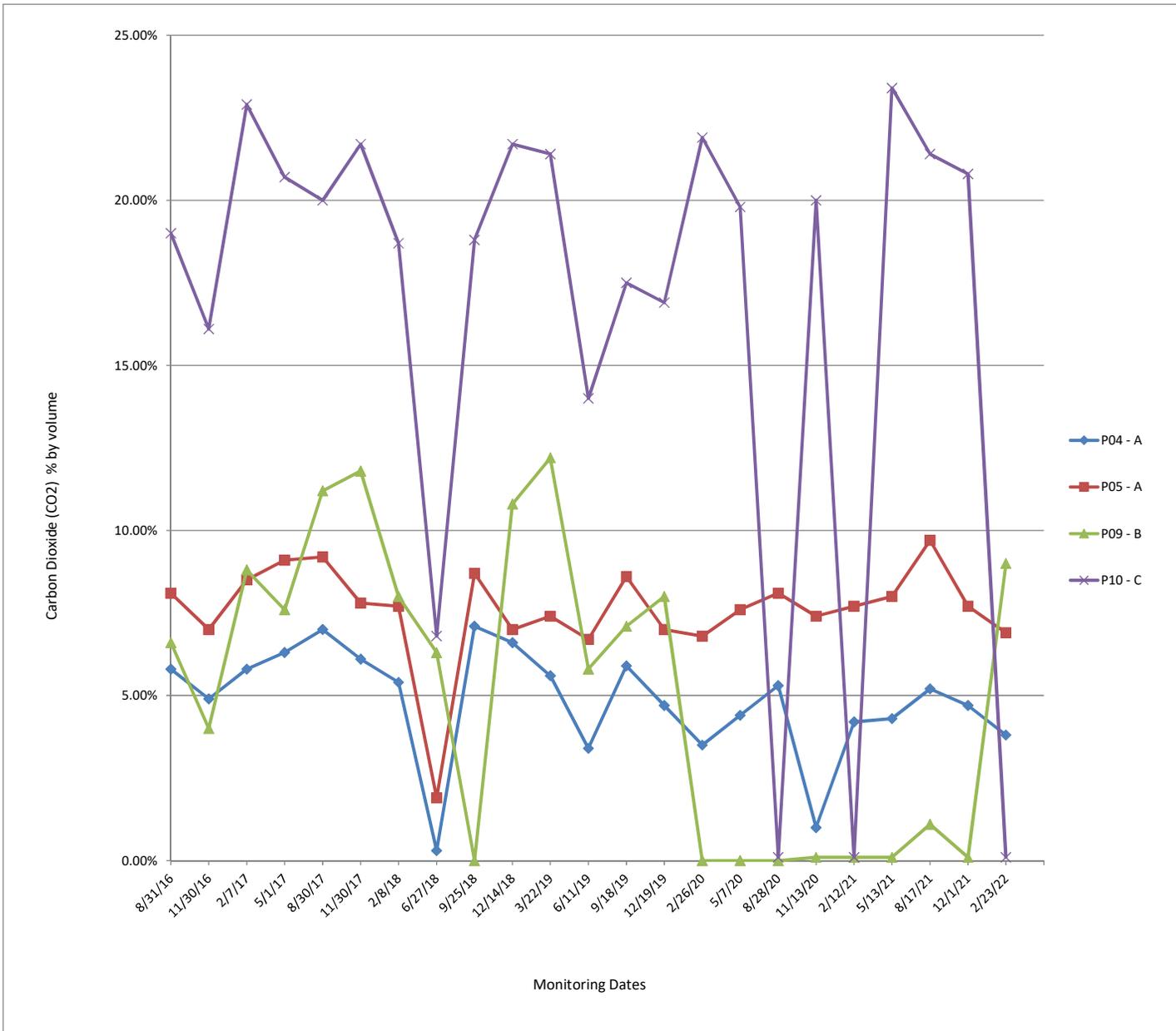
**Chart 3**  
**Brawley Solid Waste Landfill**  
**Oxygen Percentages in Monitoring Probes**



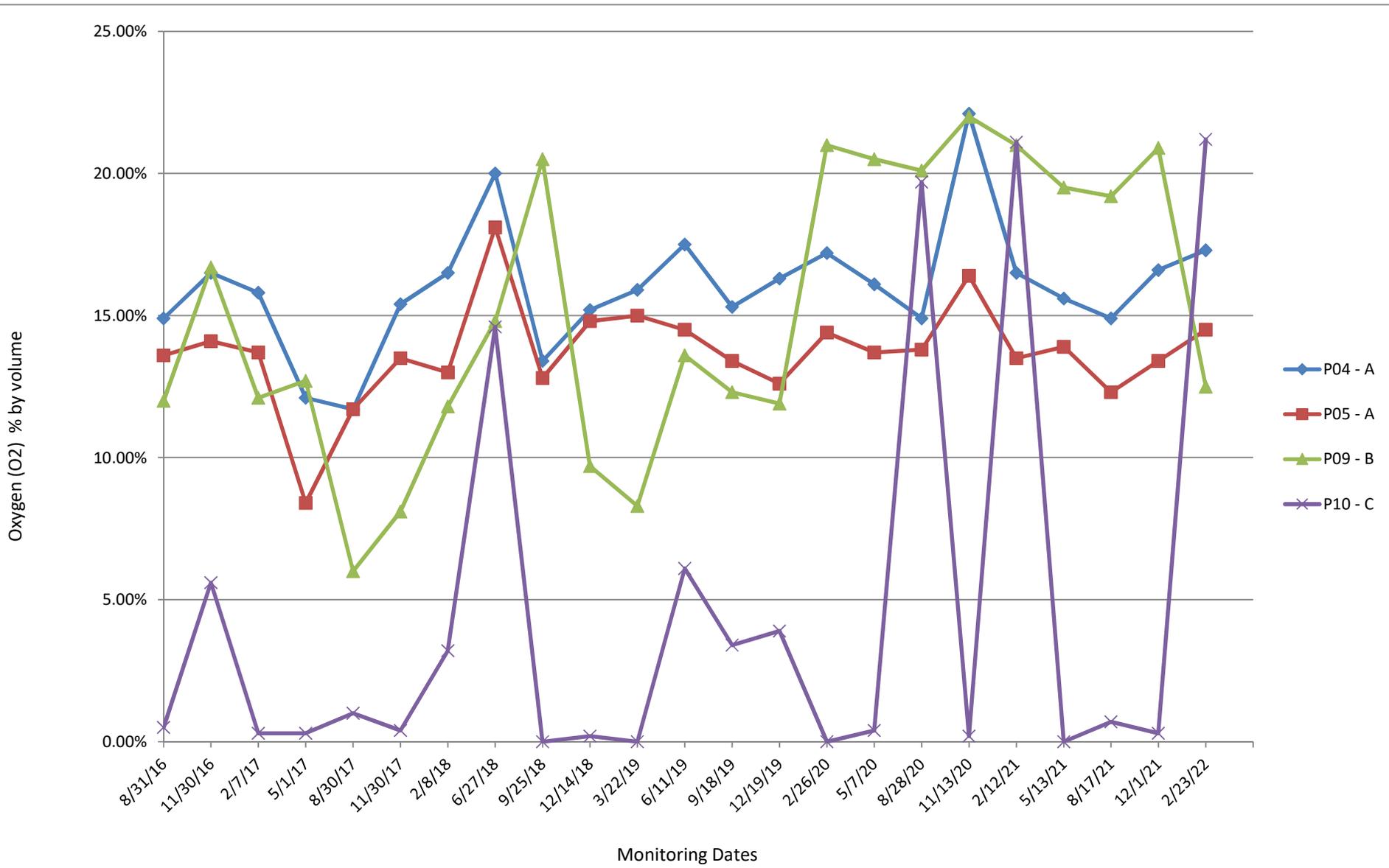
**Chart 1**  
**Calexico Solid Waste Landfill**  
**Methane Percentages in Monitoring Probes**



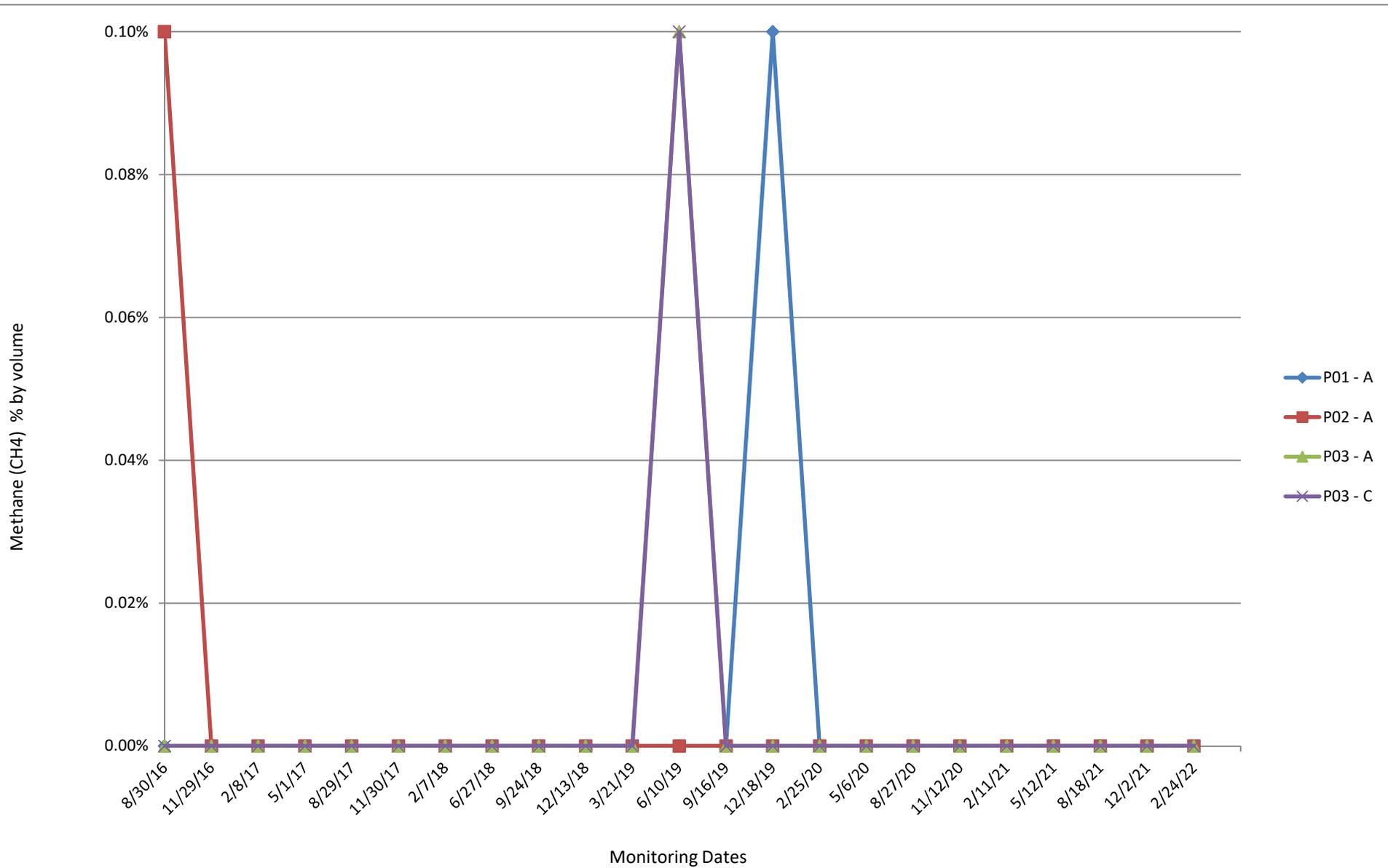
**Chart 2**  
**Calexico Solid Waste Landfill**  
**Carbon Dioxide Percentages in Monitoring Probes**



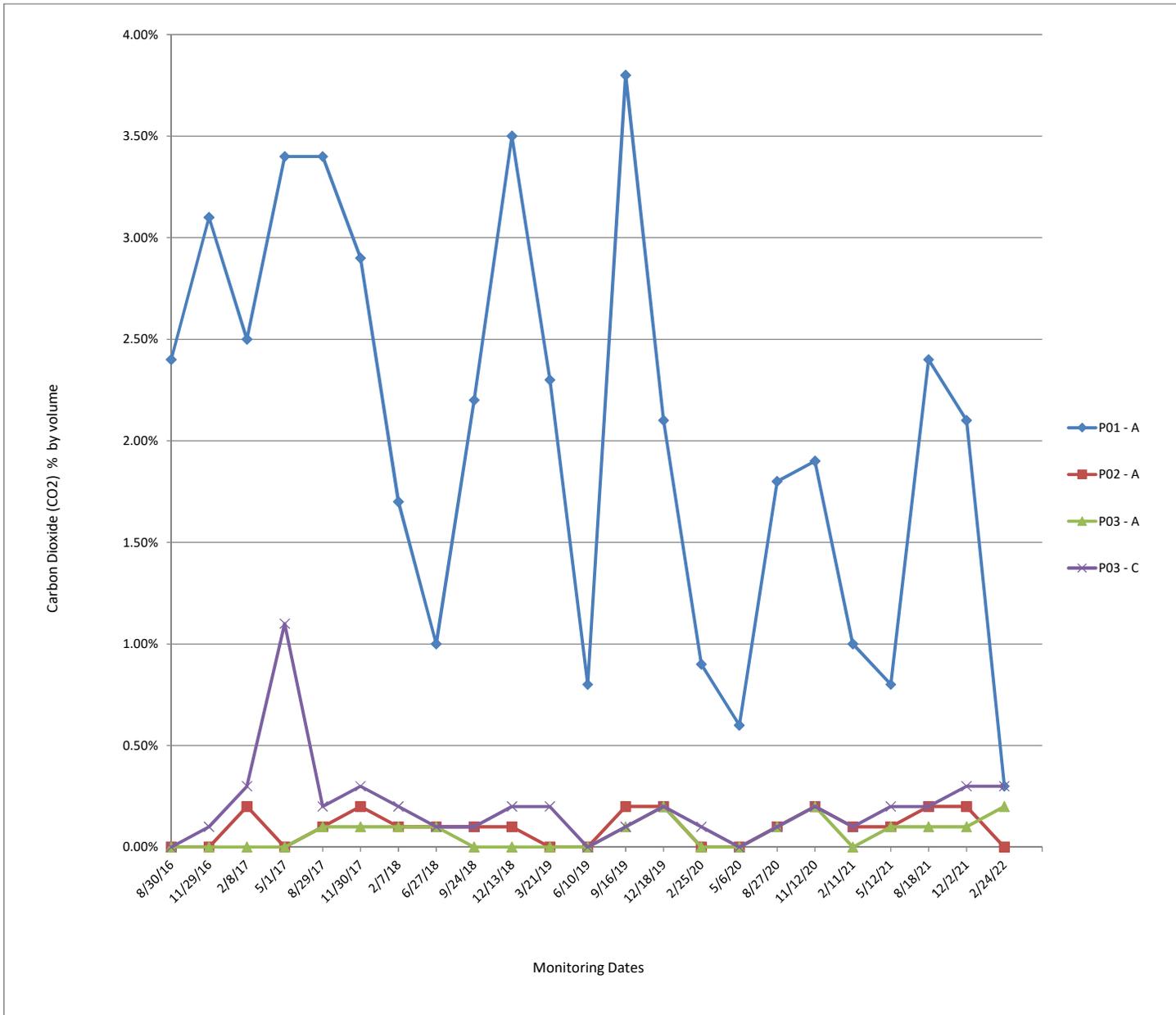
**Chart 3**  
**Calexico Solid Waste Landfill**  
**Oxygen Percentages in Monitoring Probes**



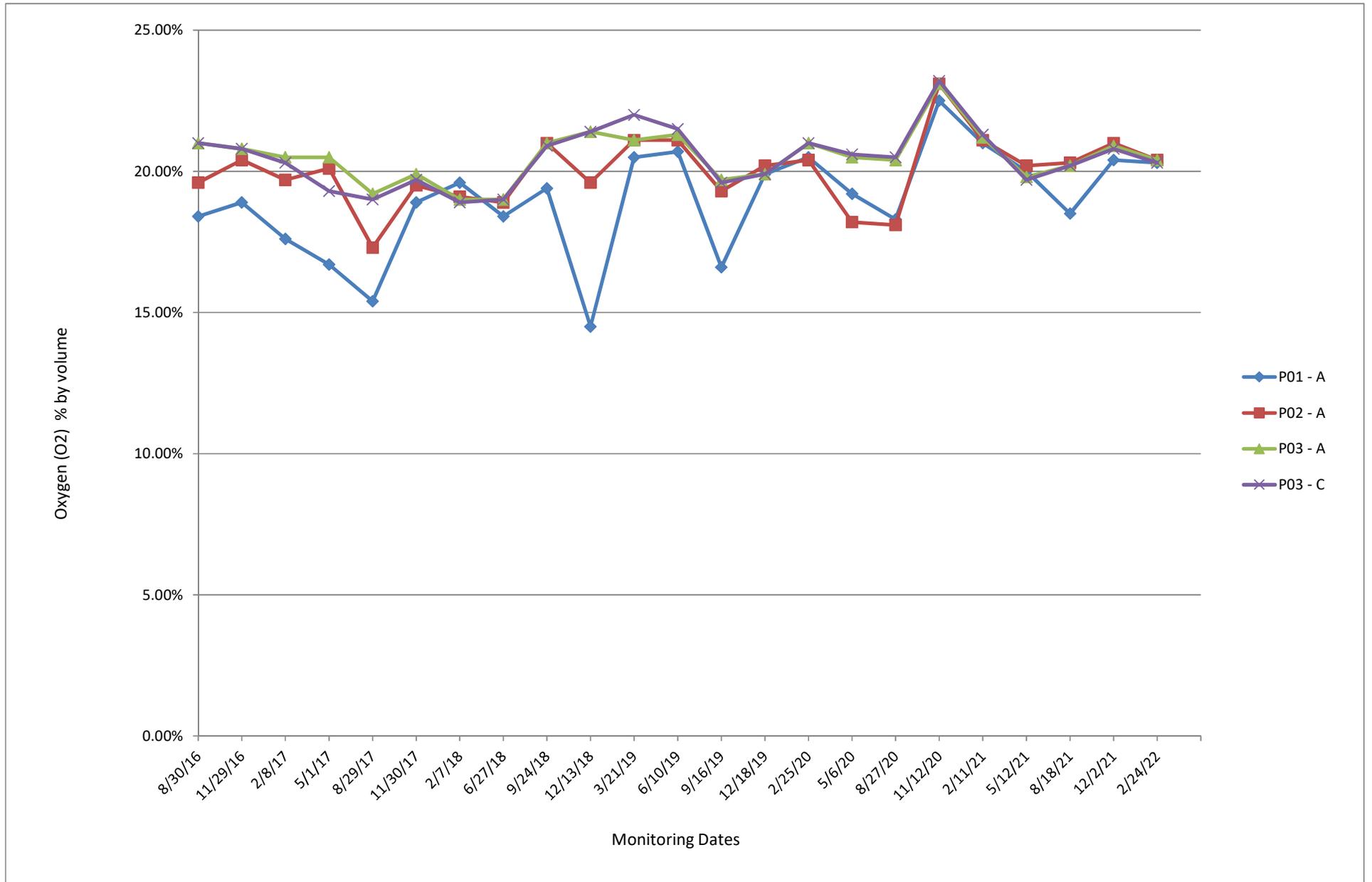
**Chart 1**  
**Hot Spa Solid Waste Landfill**  
**Methane Percentages in Monitoring Probes**



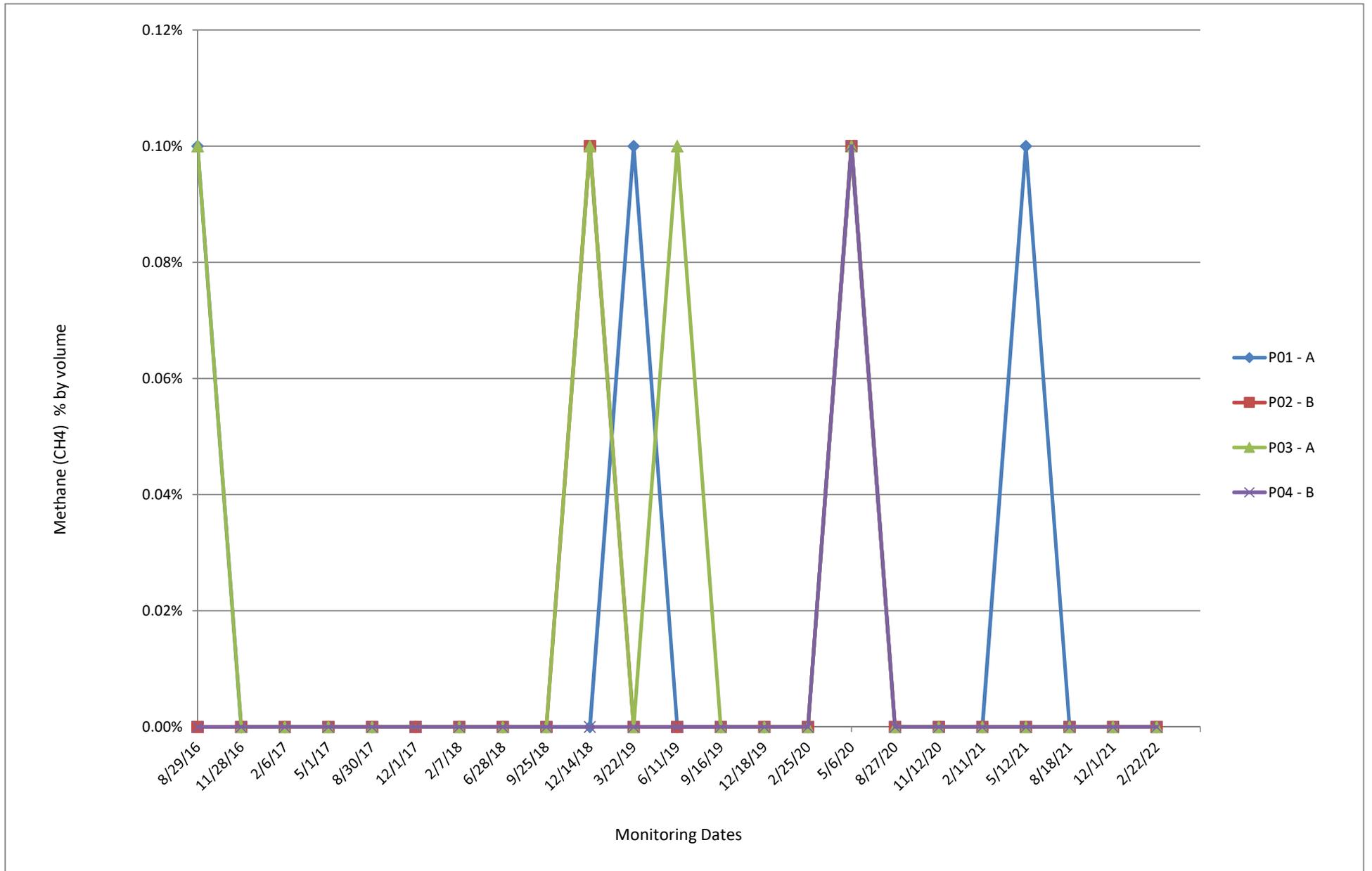
**Chart 2**  
**Hot Spa Solid Waste Landfill**  
**Carbon Dioxide Percentages in Monitoring Probes**



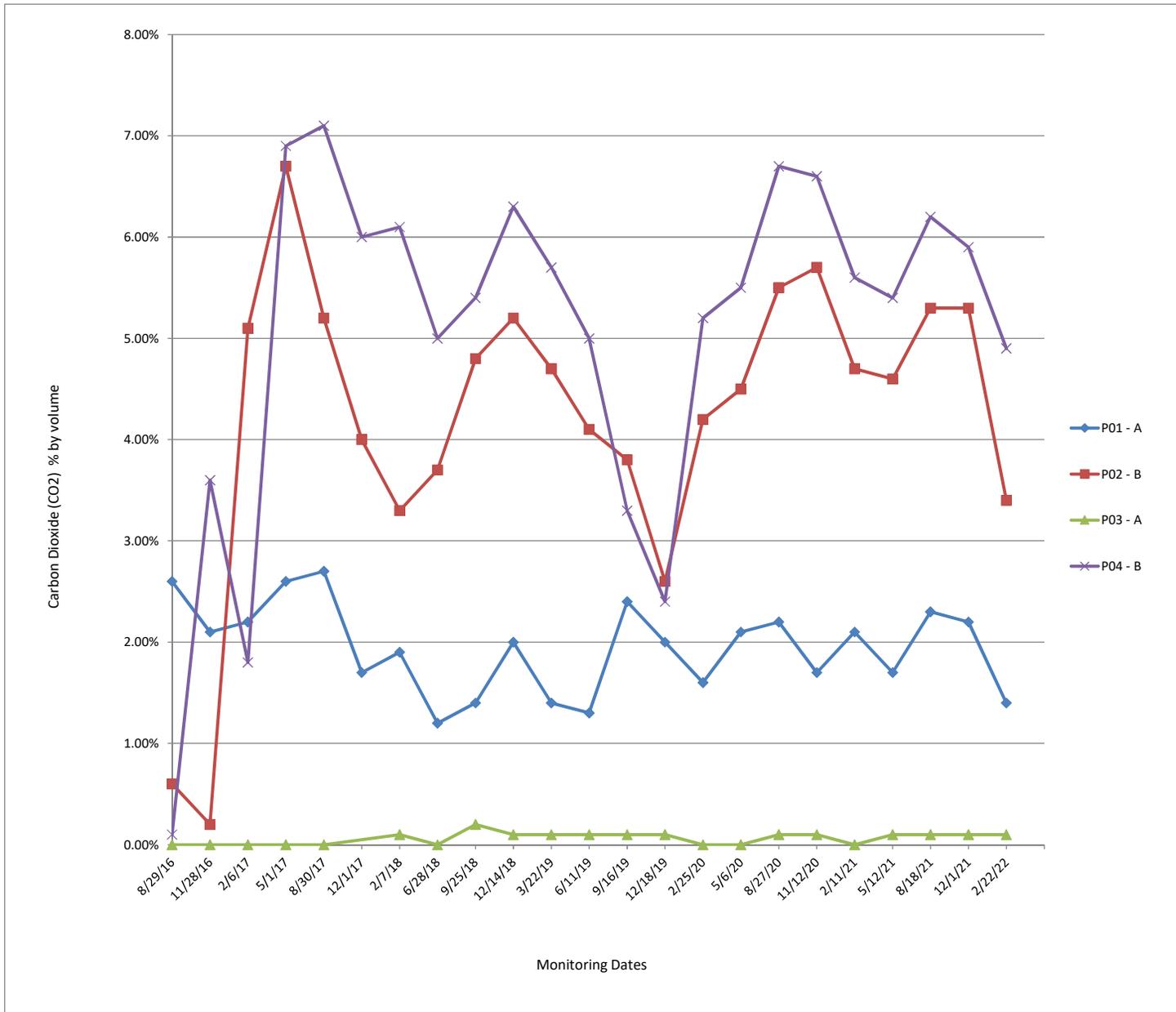
**Chart 3**  
**Hot Spa Solid Waste Landfill**  
**Oxygen Percentages in Monitoring Probes**



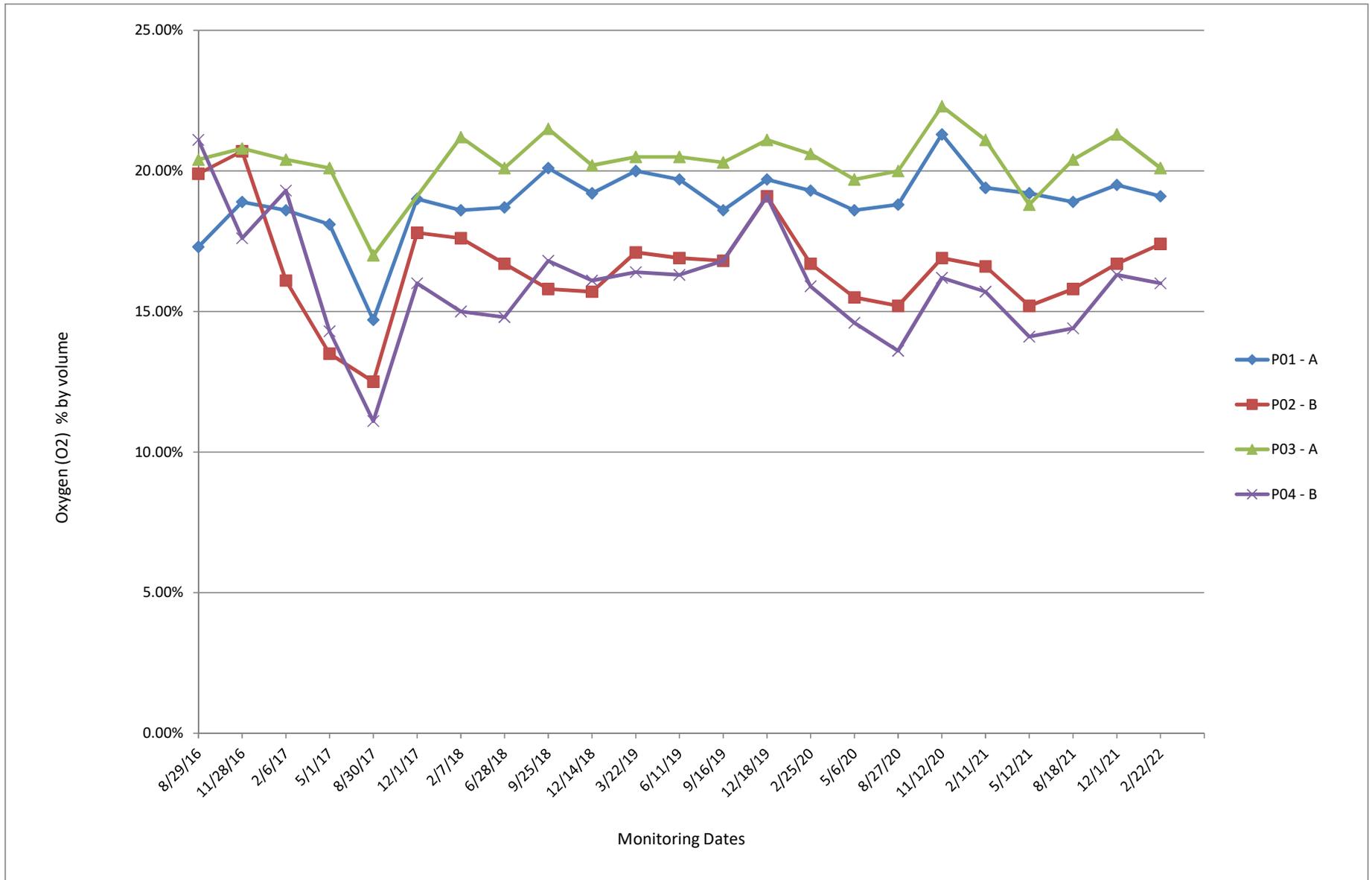
**Chart 1**  
**Holtville Solid Waste Landfill**  
**Methane Percentages in Monitoring Probes**



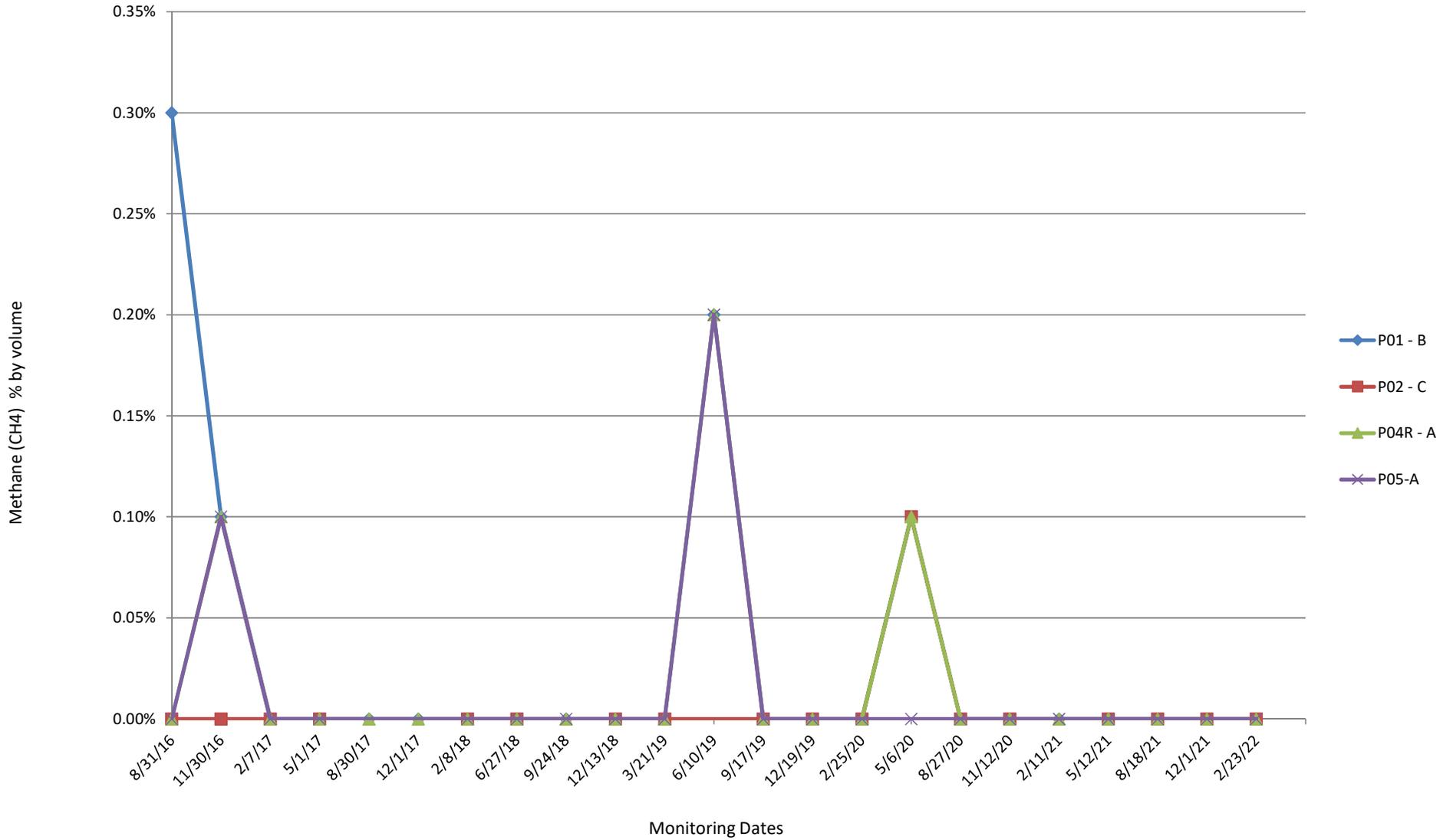
**Chart 2**  
**Holtville Solid Waste Landfill**  
**Carbon Dioxide Percentages in Monitoring Probes**



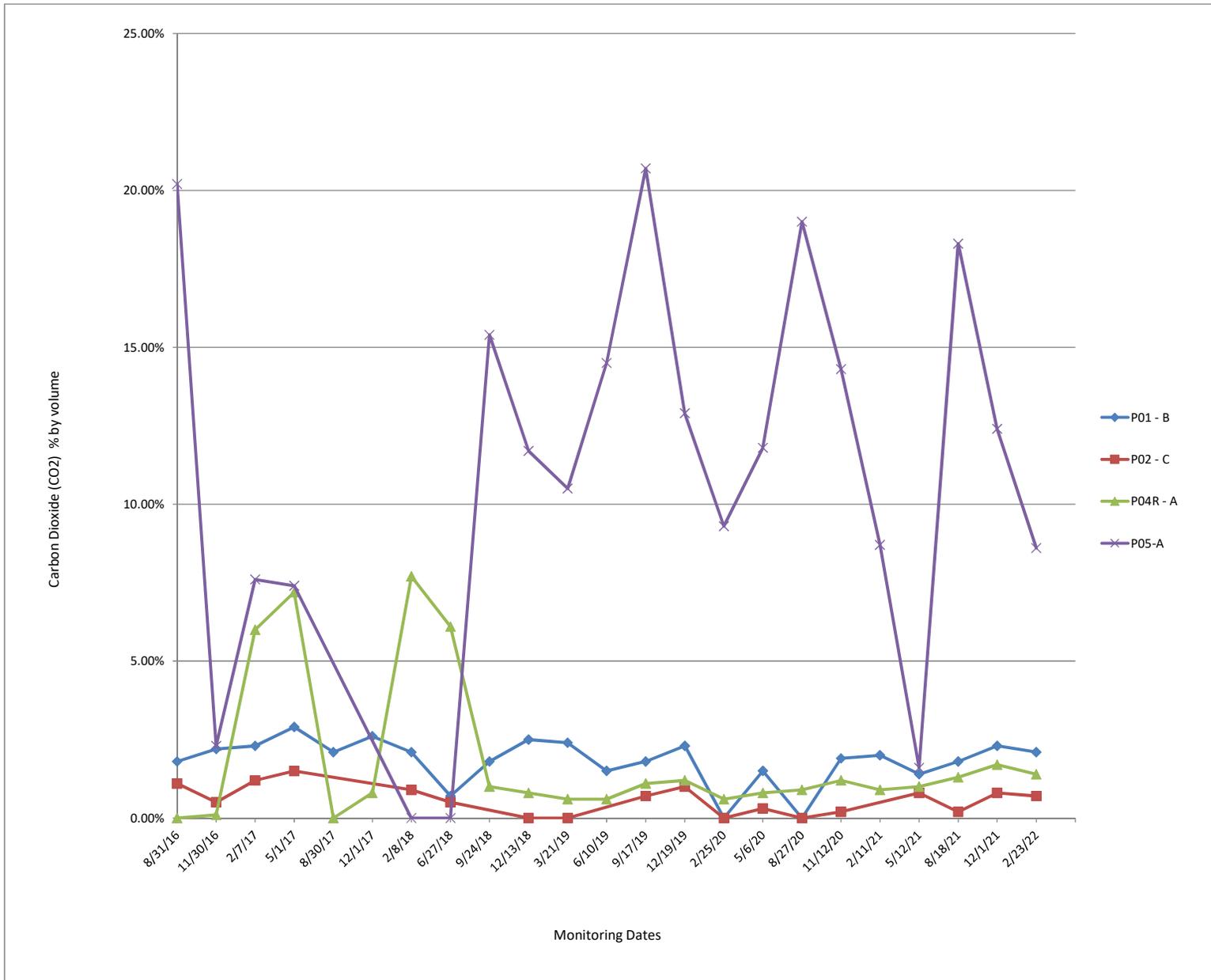
**Chart 3**  
**Holtville Solid Waste Landfill**  
**Oxygen Percentages in Monitoring Probes**



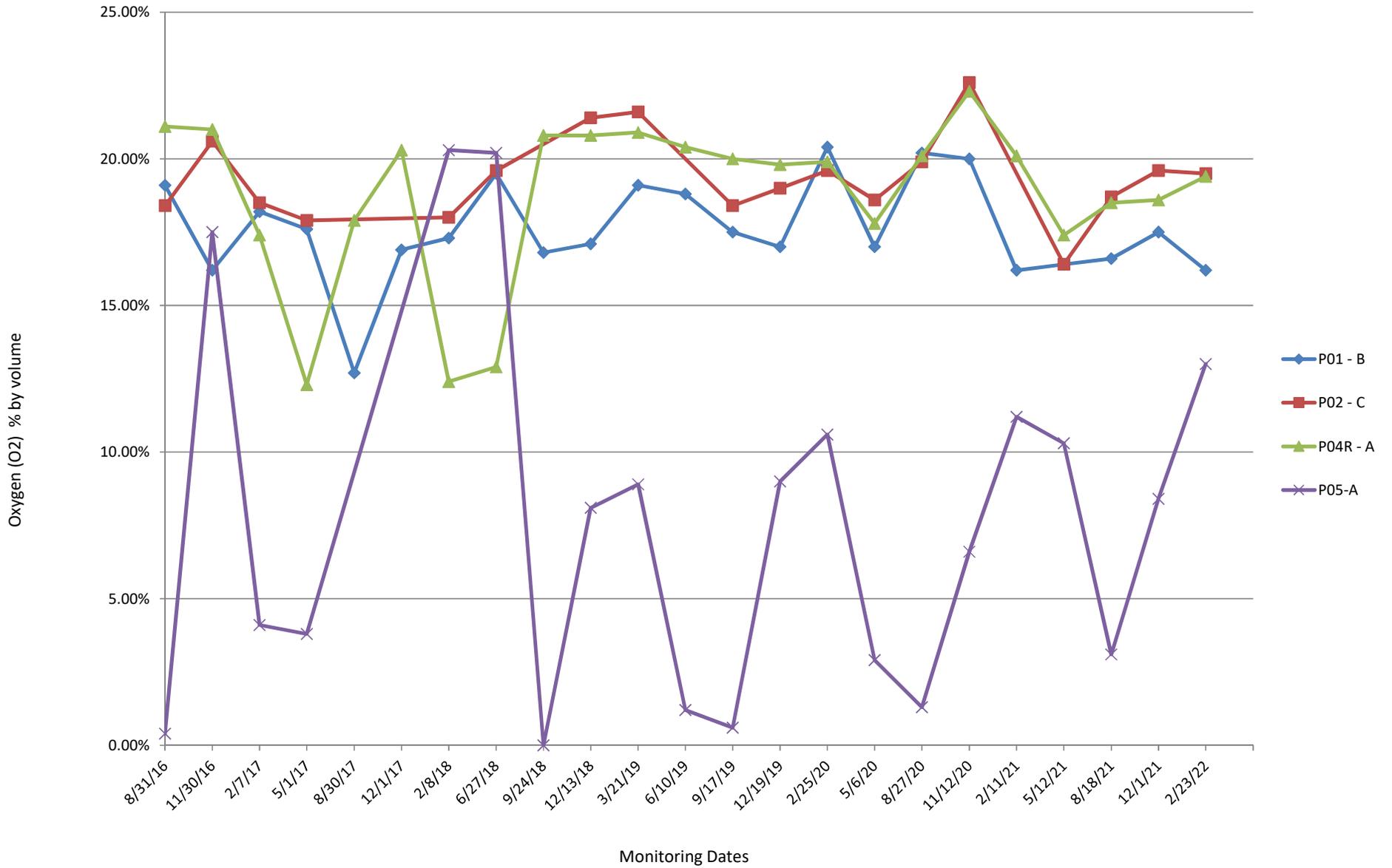
**Chart 1**  
**Imperial Solid Waste Landfill**  
**Methane Percentages in Monitoring Probes**



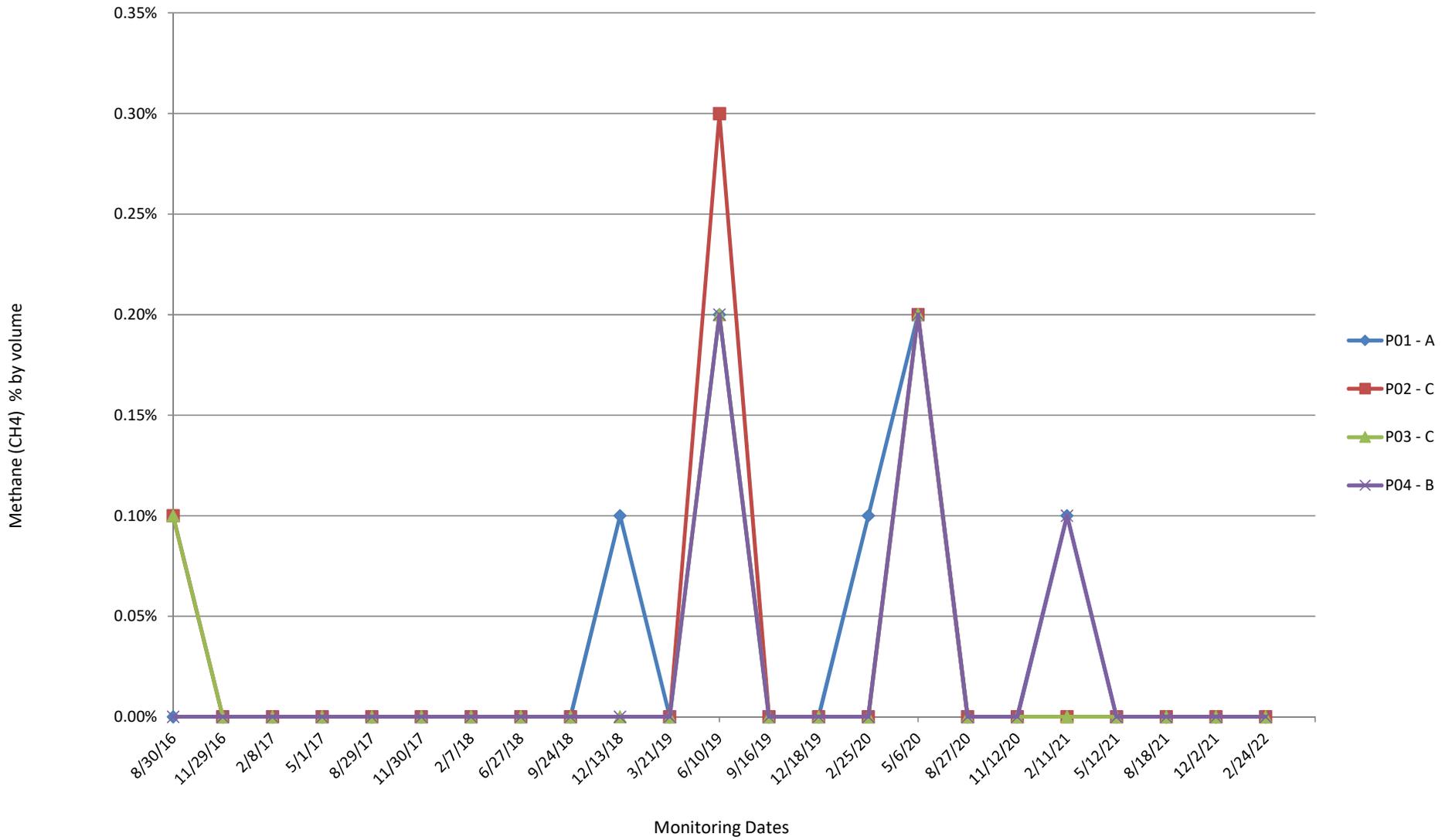
**Chart 2**  
**Imperial Solid Waste Landfill**  
**Carbon Dioxide Percentages in Monitoring Probes**



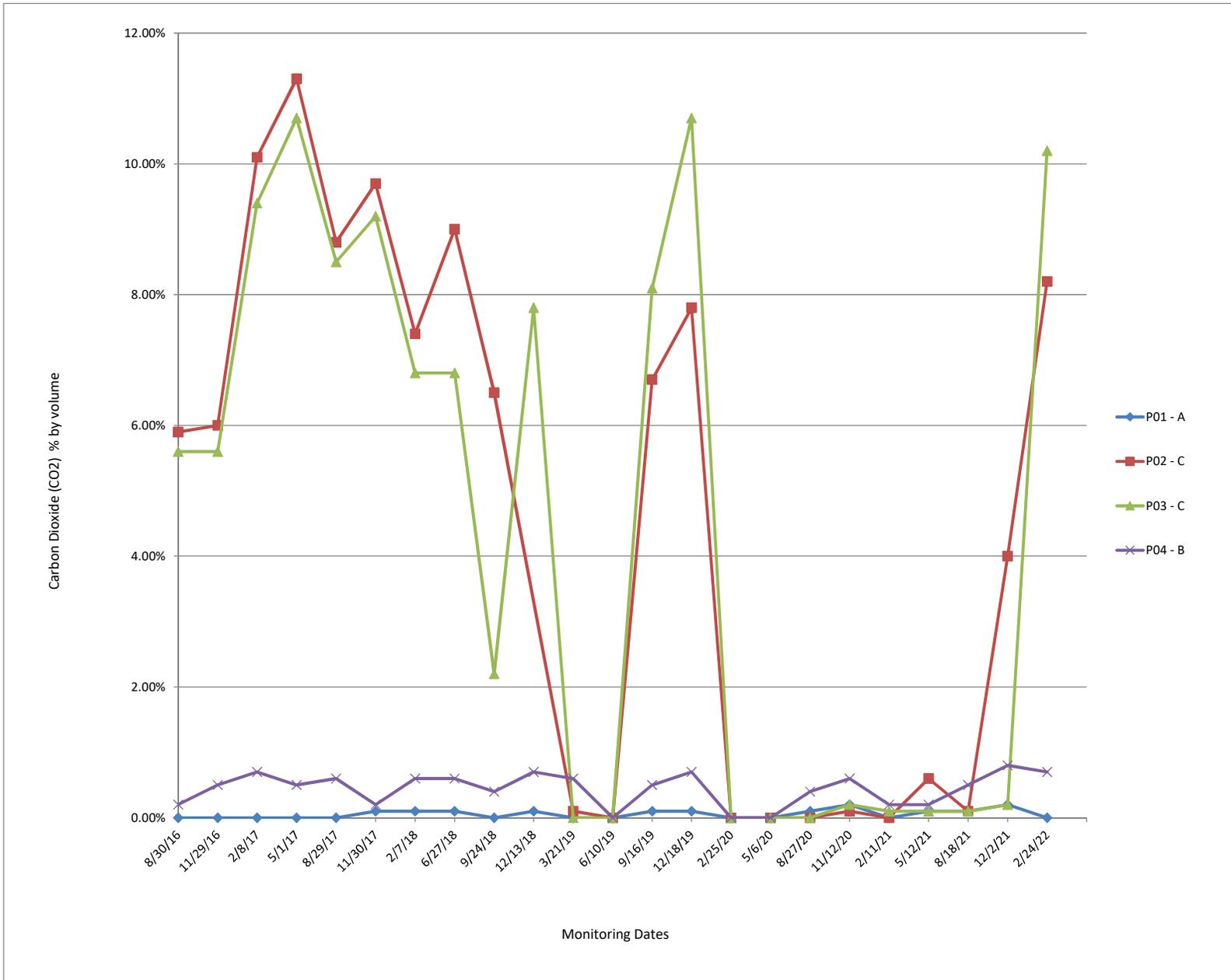
**Chart 3**  
**Imperial Solid Waste Landfill**  
**Oxygen Percentages in Monitoring Probes**



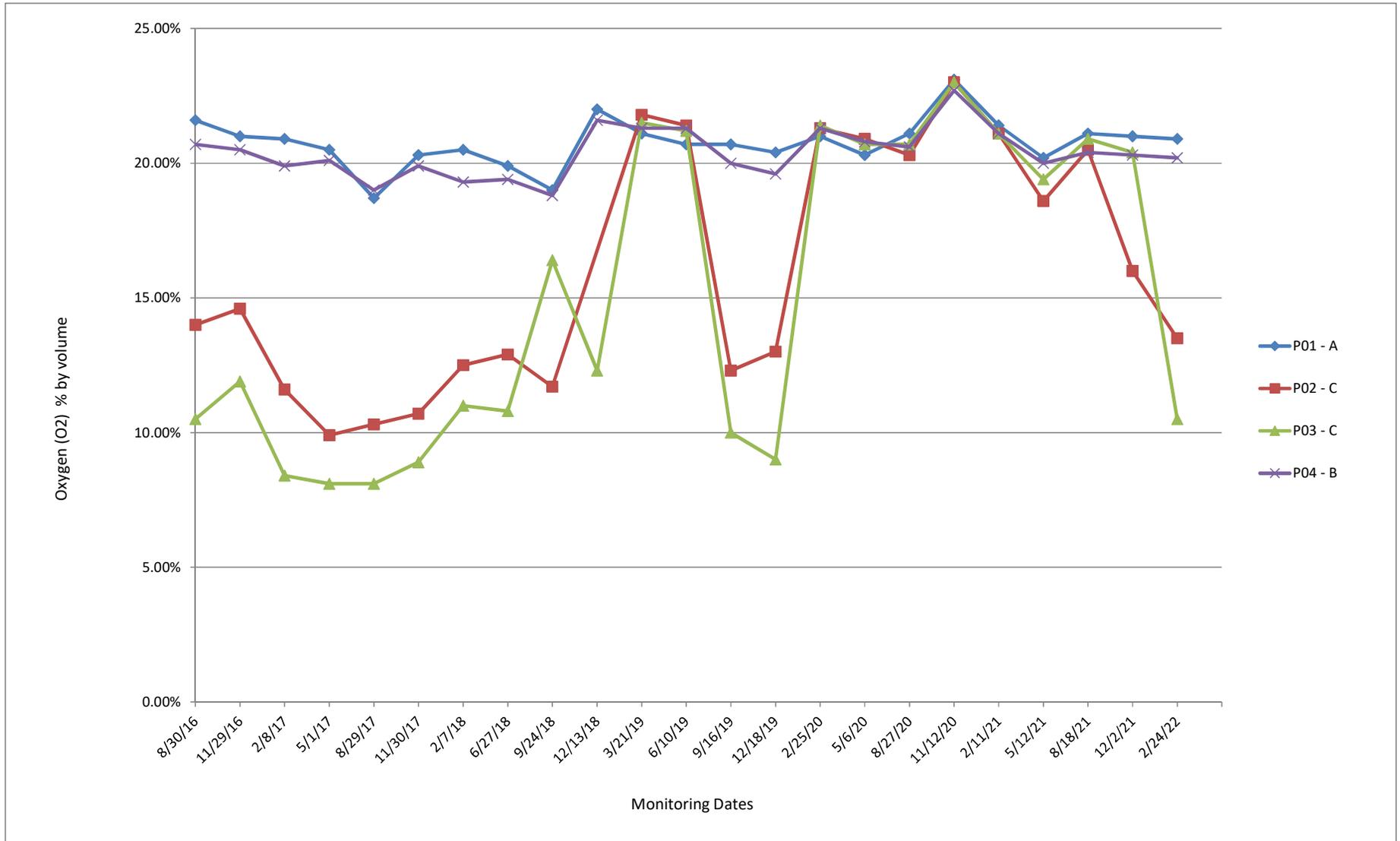
**Chart 1**  
**Niland Solid Waste Landfill**  
**Methane Percentages in Monitoring Probes**



**Chart 2**  
**Niland Solid Waste Landfill**  
**Carbon Dioxide Percentages in Monitoring Probes**



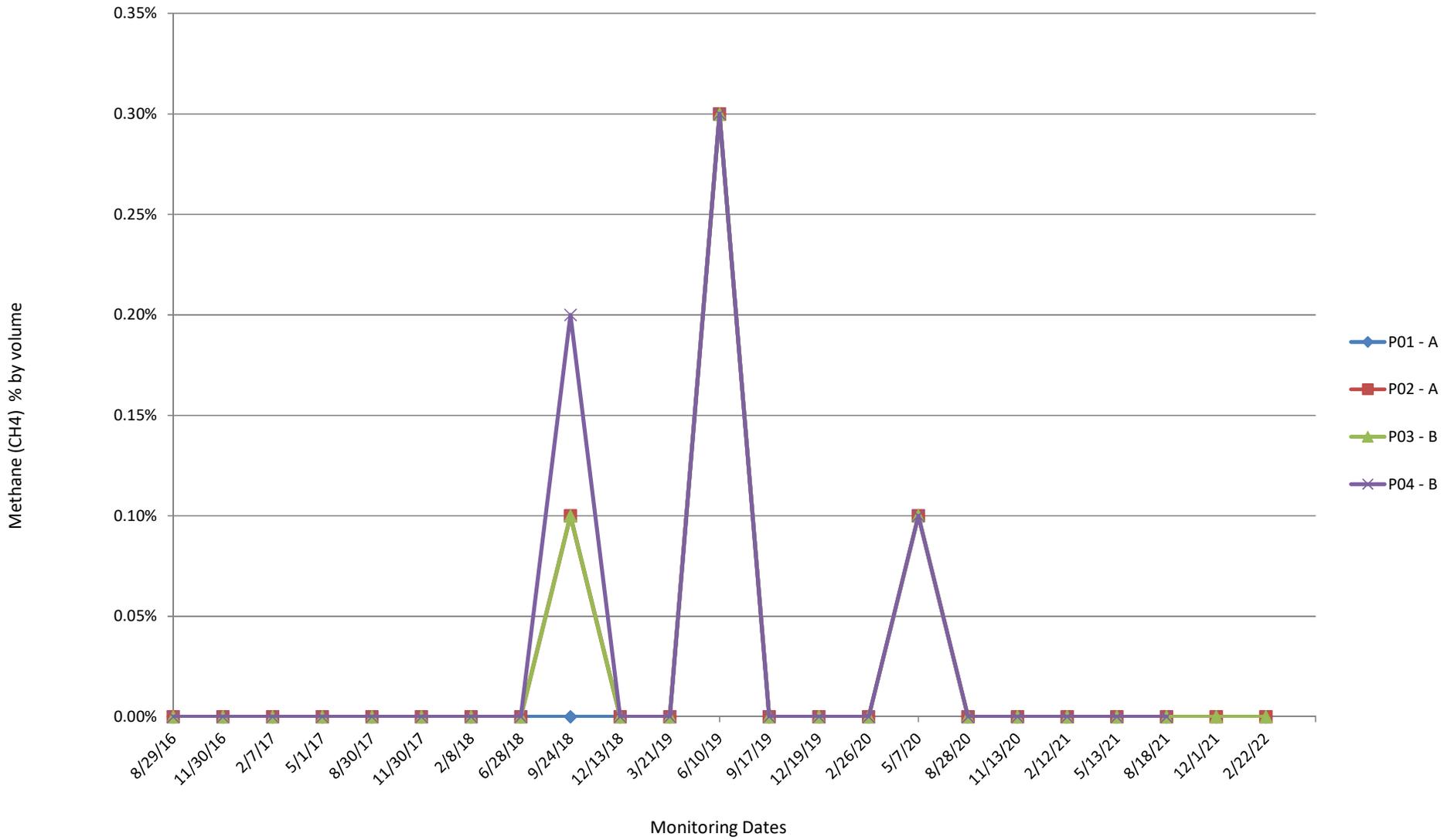
**Chart 3**  
**Niland Solid Waste Landfill**  
**Oxygen Percentages in Monitoring Probes**



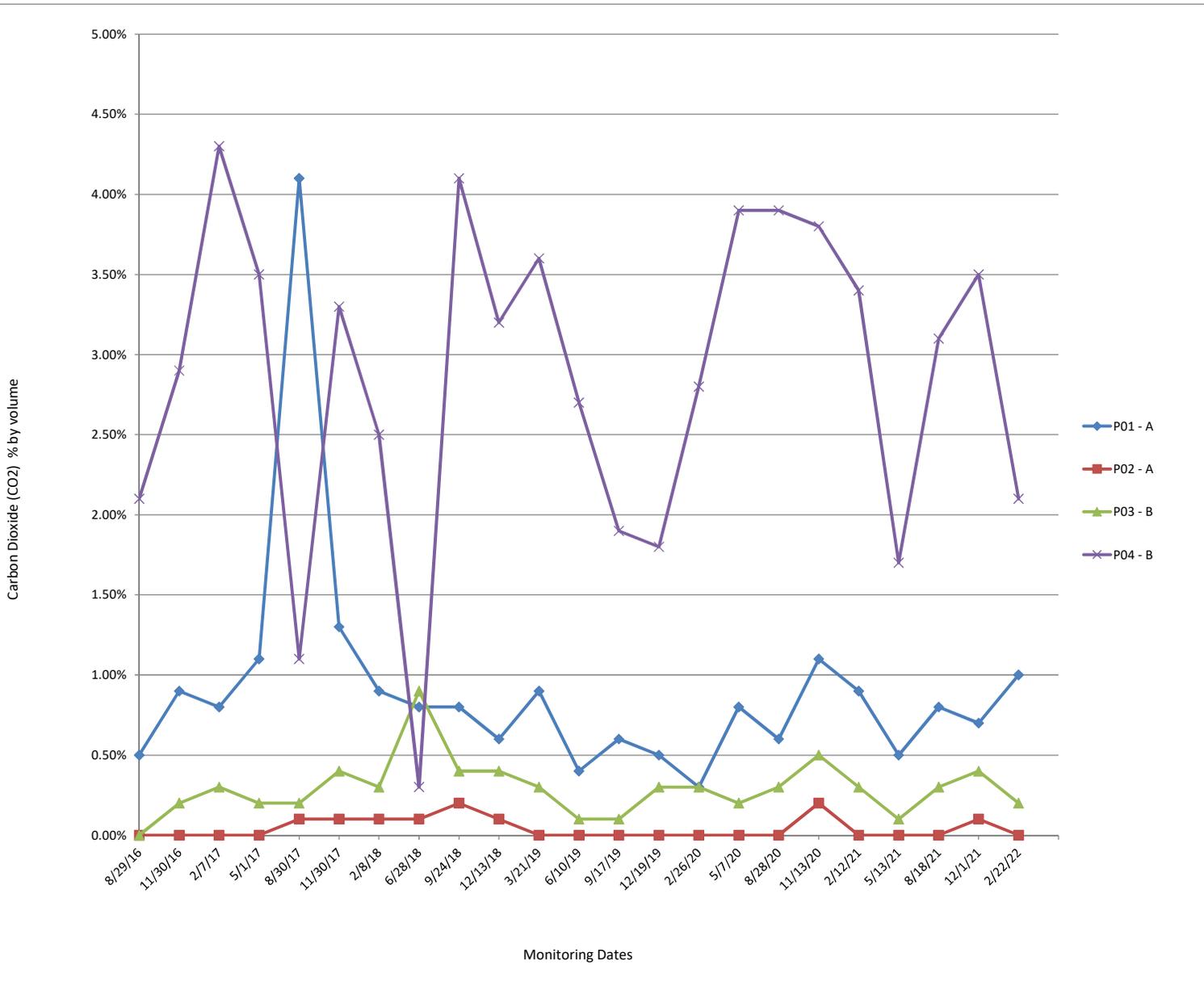
# Chart 1

## Ocotillo Solid Waste Landfill

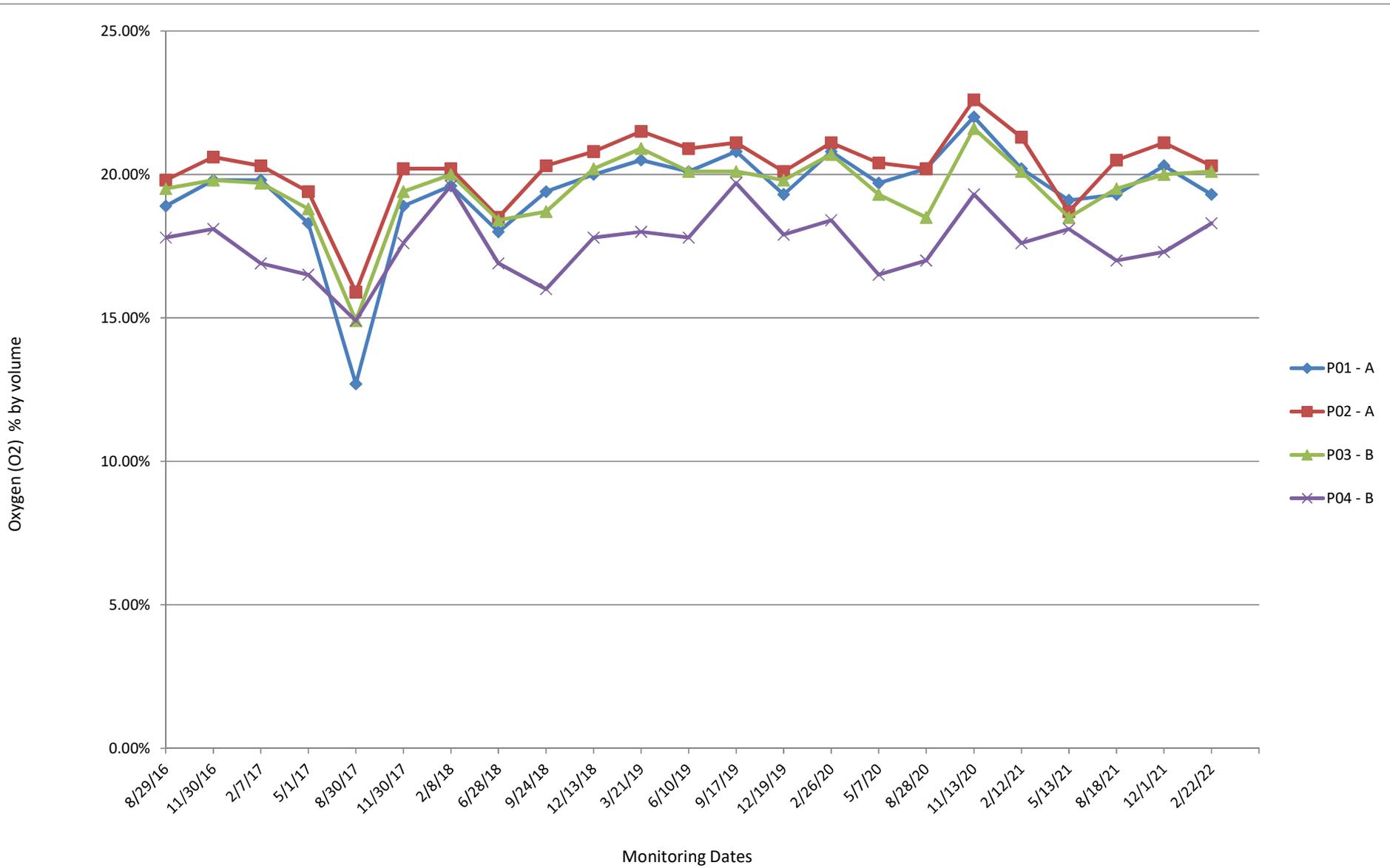
### Methane Percentages in Monitoring Probes



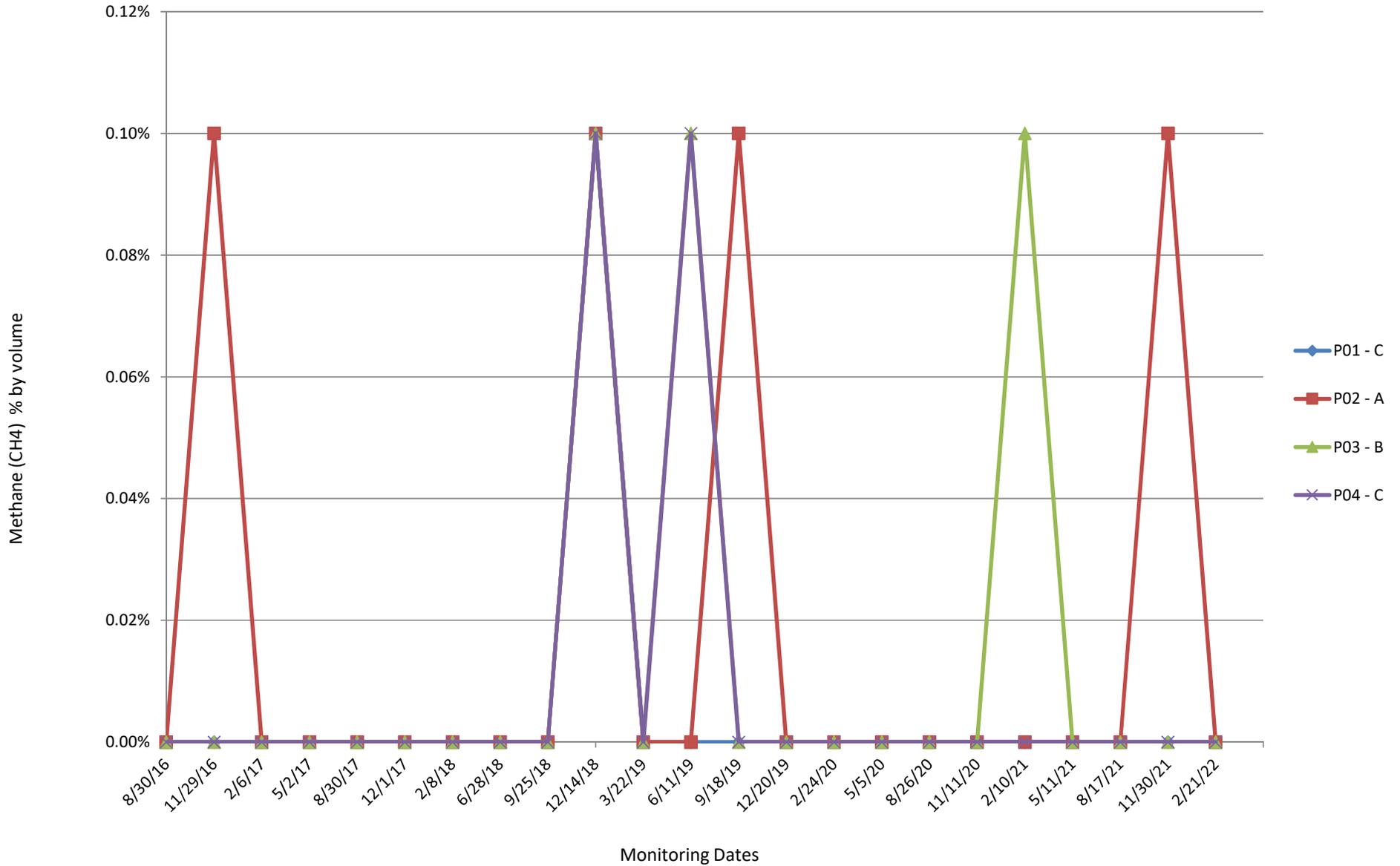
**Chart 2**  
**Ocotillo Solid Waste Landfill**  
**Carbon Dioxide Percentages in Monitoring Probes**



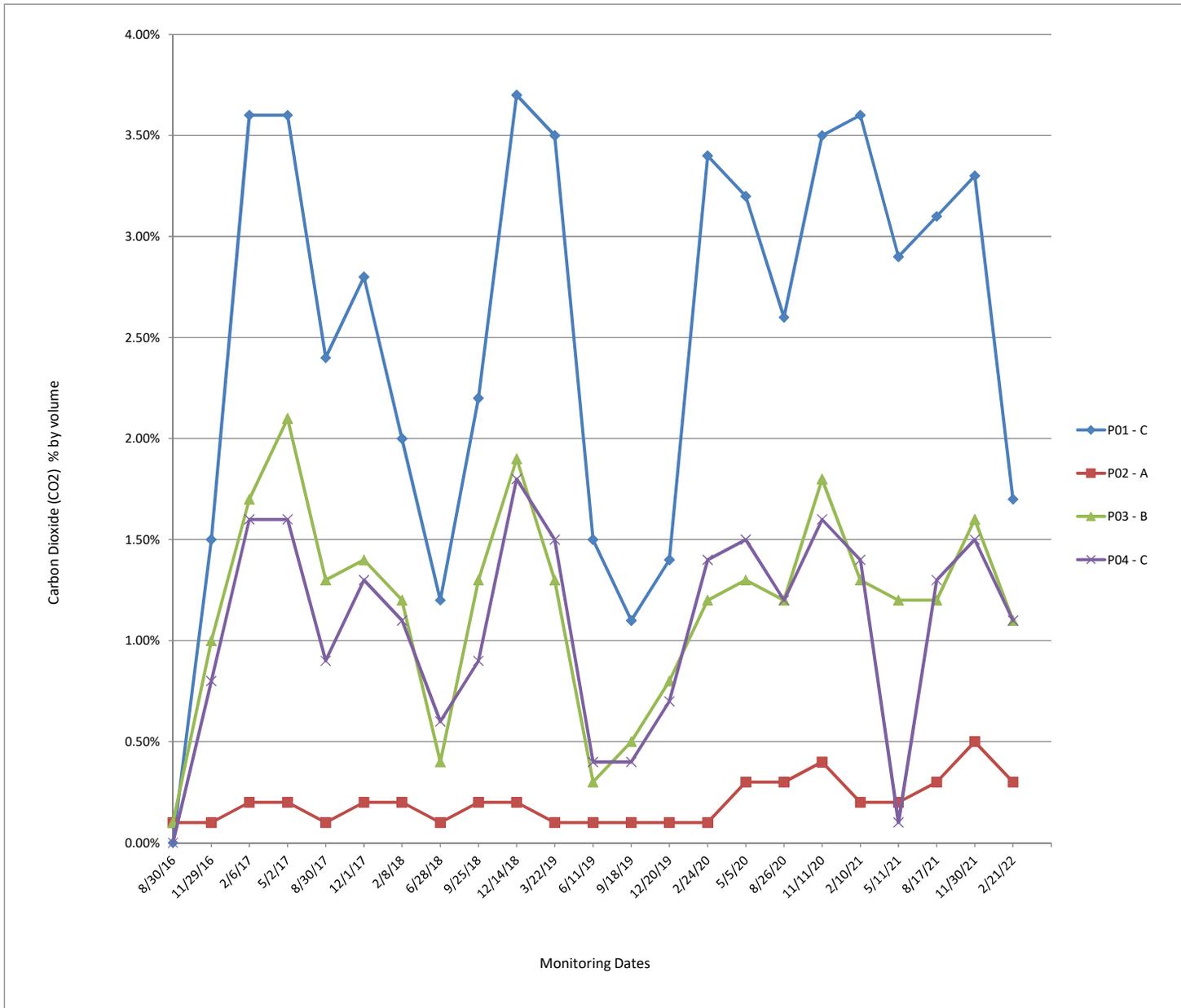
**Chart 3**  
**Ocotillo Solid Waste Landfill**  
**Oxygen Percentages in Monitoring Probes**



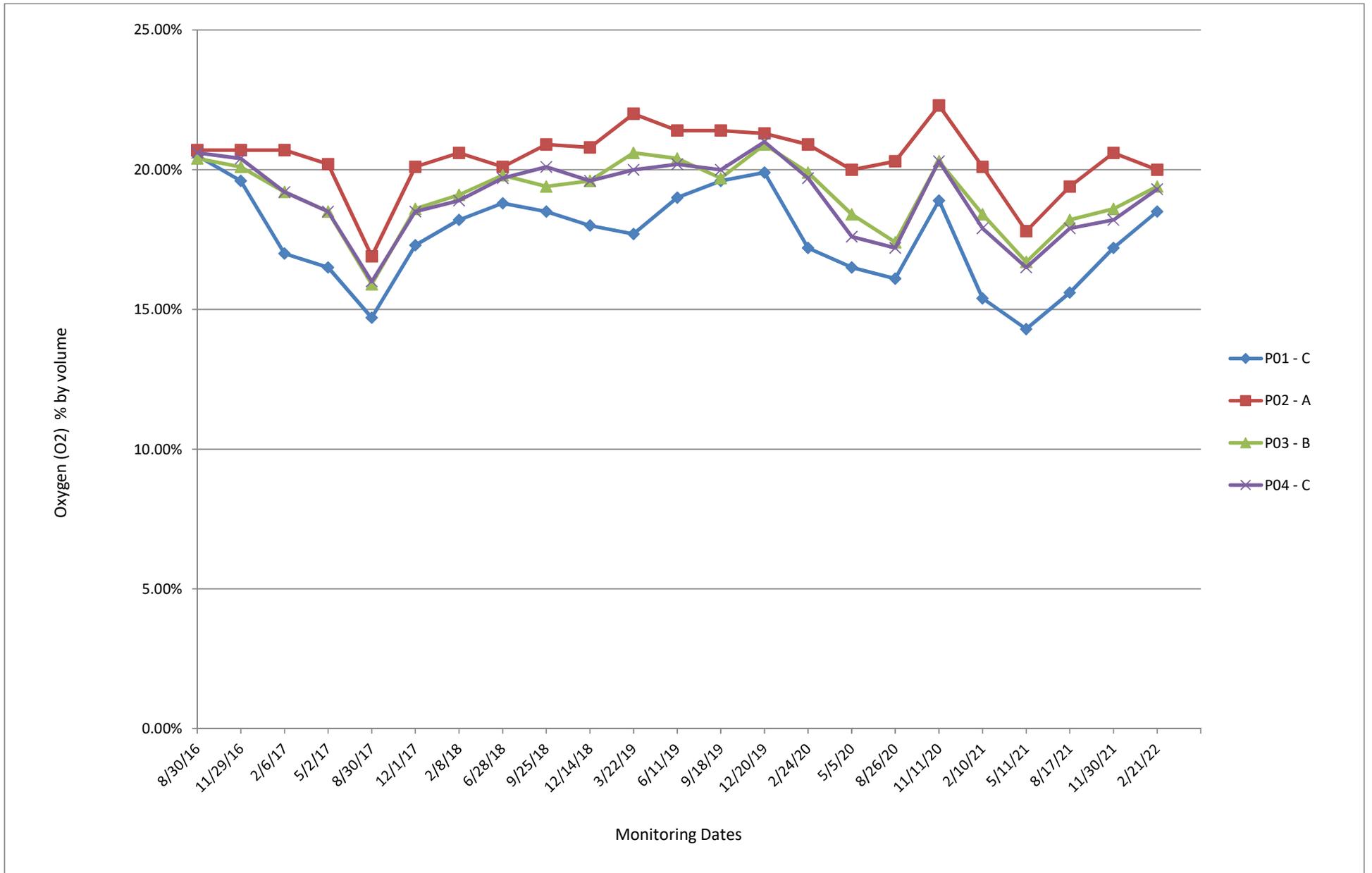
**Chart 1**  
**Palo Verde Solid Waste Landfill**  
**Methane Percentages in Monitoring Probes**



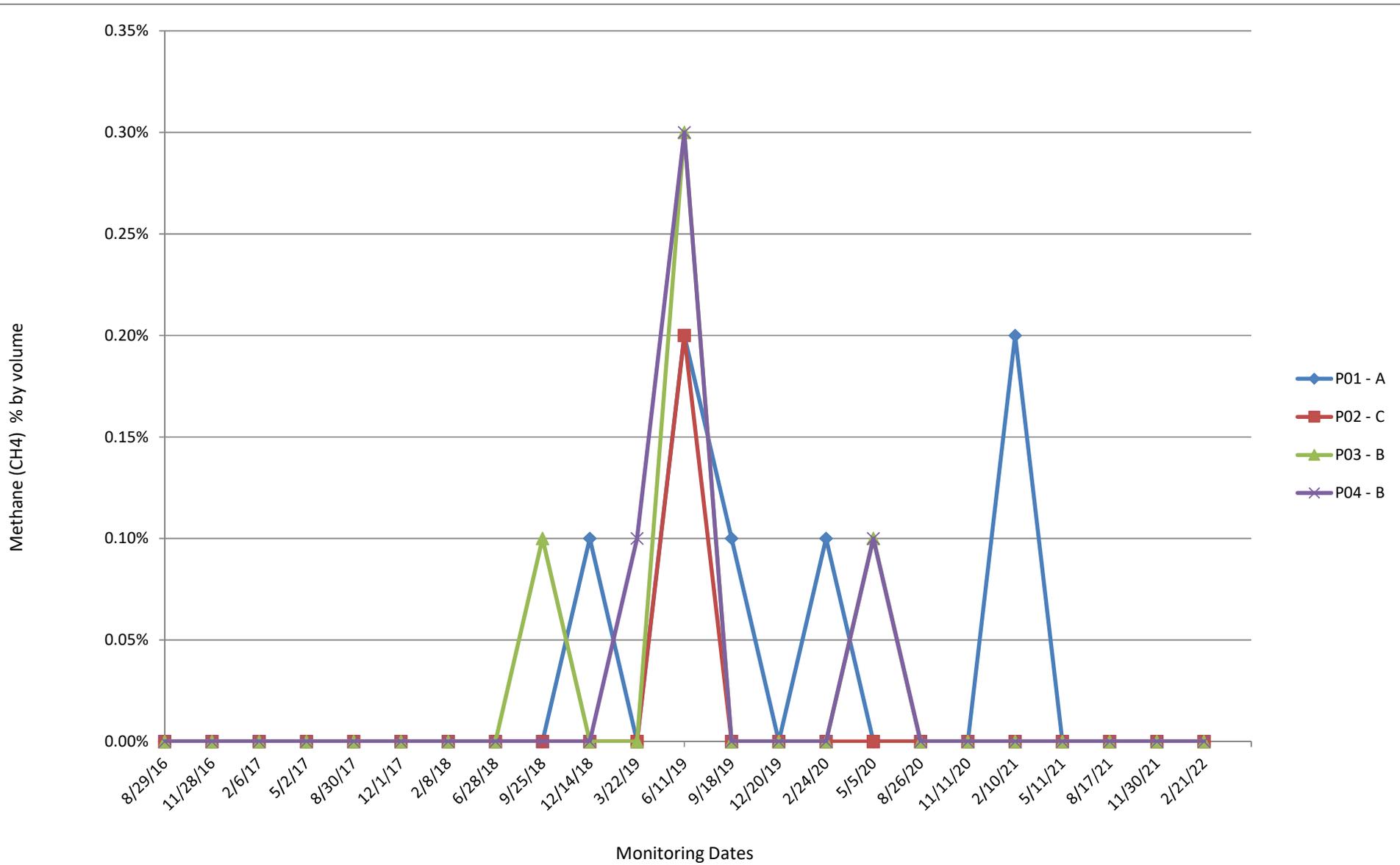
**Chart 2**  
**Palo Verde Solid Waste Landfill**  
**Carbon Dioxide Percentages in Monitoring Probes**



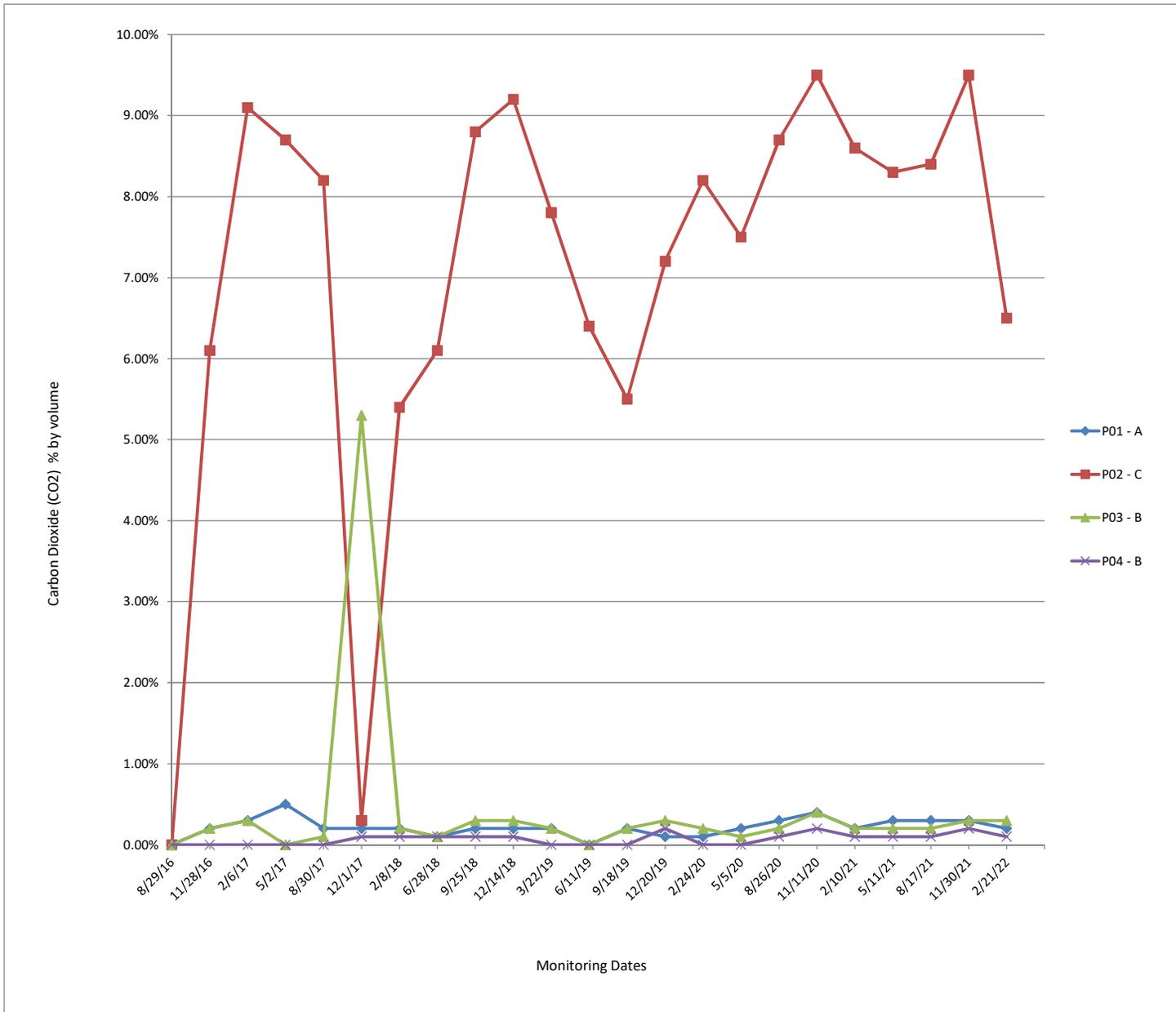
**Chart 3**  
**Palo Verde Solid Waste Landfill**  
**Oxygen Percentages in Monitoring Probes**



**Chart 1**  
**Picacho Solid Waste Landfill**  
**Methane Percentages in Monitoring Probes**



**Chart 2**  
**Picacho Solid Waste Landfill**  
**Carbon Dioxide Percentages in Monitoring Probes**



**Chart 3**  
**Picacho Solid Waste Landfill**  
**Oxygen Percentages in Monitoring Probes**

