



# DIRECT READING AIR MONITORING LOG

CLIENT: Los Angeles Unified School District      DATE: 1/29/16      PAGE 1 of 3  
 LOCATION: Patrick Henry Middle School      BY: Travis Dagdigian

**INSTRUMENT: Ultra RAE 3000 Photo Ionization Detector**  
 BENZENE FUNCTION TEST:  Pass (No Calibration Required)       Fail (Conduct Calibration)  
 BENZENE SENSOR CALIBRATION VALUE: \_\_\_\_\_ ppmv      CALIBRATION READING: \_\_\_\_\_ ppmv

**INSTRUMENT: Multi RAE**  
 FUNCTION TEST:  Pass (No Calibration Required)       Fail (Conduct Calibration)  
 CALIBRATION VALUE: H2S \_\_\_\_\_ ppmv    CO \_\_\_\_\_ ppmv    LEL \_\_\_\_\_ %    O2 \_\_\_\_\_ %    IB \_\_\_\_\_ ppmv  
 CALIBRATION READING: H2S \_\_\_\_\_ ppmv    CO \_\_\_\_\_ ppmv    LEL \_\_\_\_\_ %    O2 \_\_\_\_\_ %    IB \_\_\_\_\_ ppmv

**INSTRUMENT: Jerome J631X Hydrogen Sulfide Analyzer**  
 FUNCTION TEST:  Pass (No Calibration Required)       Fail (Return to Manufacturer for Calibration)  
 CALIBRATION VALUE: N/A Factory Calibrated      CALIBRATION READING: Manufacturer Calibration Only

| TIME | VOCs (ppmv) | Benzene (ppmv) | % LEL | Hydrogen Sulfide (ppmv) | Drager Tubes   |                |                     |               |                   | Location                           |
|------|-------------|----------------|-------|-------------------------|----------------|----------------|---------------------|---------------|-------------------|------------------------------------|
|      |             |                |       |                         | Benzene (ppmv) | Toluene (ppmv) | Ethylbenzene (ppmv) | Xylene (ppmv) | Mercaptans (ppmv) |                                    |
| 0720 | 0.00        | --             | 0     | 0.004                   | --             | --             | --                  | --            | --                | Main Admin Building                |
| 0730 | 0.00        | --             | 0     | 0.004                   | --             | --             | --                  | --            | --                | Quad/Center                        |
| 0743 | 0.00        | --             | 0     | 0.004                   | --             | --             | --                  | --            | --                | Lunch Area                         |
| 0800 | 0.00        | 0.0            | 0     | 0.004                   | ND             | ND             | ND                  | ND            | ND                | Staff Parking Lot                  |
| 0810 | 0.00        | --             | 0     | 0.005                   | --             | --             | --                  | --            | --                | Admin Building                     |
| 0815 | 0.00        | --             | 0     | 0.004                   | --             | --             | --                  | --            | --                | Building B                         |
| 0819 | 0.00        | --             | 0     | 0.005                   | --             | --             | --                  | --            | --                | Building C – 2 <sup>nd</sup> Level |
| 0845 | 0.00        | --             | 0     | 0.004                   | --             | --             | --                  | --            | --                | Staff Parking Lot                  |
| 0903 | 0.00        | --             | 0     | 0.005                   | --             | --             | --                  | --            | --                | Main Admin                         |
| 0915 | 0.00        | --             | 0     | 0.004                   | --             | --             | --                  | --            | --                | Building B – 2 <sup>nd</sup> Level |
| 0919 | 0.00        | 0.0            | 0     | 0.004                   | ND             | ND             | ND                  | ND            | ND                | Quad Center                        |

Weather Conditions: Clear/Breezy      Wind Speed: 4 mph      Wind Direction: NW/NE      Temperature: 67 ° F

**Comments:** The UltraRAE is used for measuring Volatile Organic Compound (VOC) and Benzene. The MultiRae is used for measuring VOCs and %LEL (used as an indicator of the potential presence of methane). The Jerome J631X is used for measuring Hydrogen Sulfide. Drager tubes are used for measuring Benzene, Toluene, Xylene, Ethylbenzene, and Mercaptans. %LEL is used as an indicator of methane but is not chemical specific. VOC readings are an indicator of all volatile constituents and are not chemical specific. Real time readings are used to guide sample collection. Samples collected daily are submitted to a laboratory for analyses. **H2S = Hydrogen Sulfide; O2 = Oxygen; % = percent; CO = Carbon Monoxide; LEL = Lower Explosive Limit; IB = Isobutylene ND = Not Detected; ppmv = parts per million by volume; N/A = Not Applicable; -- = No Reading (no measurement taken at this time)**

**K = Kindergarten**



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 BENZENE SENSOR CALIBRATION VALUE: \_\_\_\_\_ ppmv      CALIBRATION READING: \_\_\_\_\_ ppmv

**INSTRUMENT: Multi RAE**  
 FUNCTION TEST:  Pass (No Calibration Required)       Fail (Conduct Calibration)  
 CALIBRATION VALUE:    H2S \_\_\_\_\_ ppmv    CO \_\_\_\_\_ ppmv    LEL \_\_\_\_\_ %    O2 \_\_\_\_\_ %    IB \_\_\_\_\_ ppmv  
 CALIBRATION READING: H2S \_\_\_\_\_ ppmv    CO \_\_\_\_\_ ppmv    LEL \_\_\_\_\_ %    O2 \_\_\_\_\_ %    IB \_\_\_\_\_ ppmv

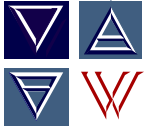
**INSTRUMENT: Jerome J631X Hydrogen Sulfide Analyzer**  
 FUNCTION TEST:  Pass (No Calibration Required)       Fail (Return to Manufacturer for Calibration)  
 CALIBRATION VALUE: N/A Factory Calibrated      CALIBRATION READING: Manufacturer Calibration Only

| TIME | VOCs (ppmv) | Benzene (ppmv) | % LEL | Hydrogen Sulfide (ppmv) | Drager Tubes   |                |                     |               |                   | Location                           |
|------|-------------|----------------|-------|-------------------------|----------------|----------------|---------------------|---------------|-------------------|------------------------------------|
|      |             |                |       |                         | Benzene (ppmv) | Toluene (ppmv) | Ethylbenzene (ppmv) | Xylene (ppmv) | Mercaptans (ppmv) |                                    |
| 0938 | 0.0         | --             | 0     | 0.005                   | --             | --             | --                  | --            | --                | Lunch Area                         |
| 1000 | 0.0         | --             | 0     | 0.006                   | --             | --             | --                  | --            | --                | Staff Lot                          |
| 1010 | 0.0         | --             | 0     | 0.004                   | ND             | ND             | ND                  | ND            | ND                | Building A Restrooms               |
| 1041 | 0.0         | --             | 0     | 0.004                   | --             | --             | --                  | --            | --                | Staff Lot                          |
| 1055 | 0.0         | --             | 0     | 0.004                   | --             | --             | --                  | --            | --                | Library                            |
| 1105 | 0.0         | --             | 0     | 0.005                   | --             | --             | --                  | --            | --                | Building B - 2 <sup>nd</sup> Level |
| 1110 | 0.0         | --             | 0     | 0.004                   | --             | --             | --                  | --            | --                | Building C - 2 <sup>nd</sup> Level |
| 1127 | 0.0         | --             | 0     | 0.004                   | --             | --             | --                  | --            | --                | Lunch Area                         |
| 1137 | 0.0         | --             | 0     | 0.003                   | --             | --             | --                  | --            | --                | South Campus                       |
| 1142 | 0.0         | --             | 0     | 0.003                   | --             | --             | --                  | --            | --                | Field, West                        |
| 1212 | 0.0         | --             | 0     | 0.005                   | --             | --             | --                  | --            | --                | Staff Lot                          |

Weather Conditions: Clear, Calm      Wind Speed: 0 mph      Wind Direction: E      Temperature: 81 ° F

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**H2S** = Hydrogen Sulfide; **O2** = Oxygen; **%** = percent; **CO** = Carbon Monoxide; **LEL** = Lower Explosive Limit; **IB** = Isobutylene **ND** = Not Detected; **ppmv** = parts per million by volume; **N/A** = Not Applicable; **--** = No Reading (no measurement taken at this time)



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 BENZENE SENSOR CALIBRATION VALUE: \_\_\_\_\_ ppmv      CALIBRATION READING: \_\_\_\_\_ ppmv

**INSTRUMENT: Multi RAE**  
 FUNCTION TEST:  Pass (No Calibration Required)       Fail (Conduct Calibration)  
 CALIBRATION VALUE: H2S \_\_\_\_\_ ppmv    CO \_\_\_\_\_ ppmv    LEL \_\_\_\_\_ %    O2 \_\_\_\_\_ %    IB \_\_\_\_\_ ppmv  
 CALIBRATION READING: H2S \_\_\_\_\_ ppmv    CO \_\_\_\_\_ ppmv    LEL \_\_\_\_\_ %    O2 \_\_\_\_\_ %    IB \_\_\_\_\_ ppmv

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 CALIBRATION VALUE: N/A Factory Calibrated      CALIBRATION READING: Manufacturer Calibration Only

| TIME | VOCs (ppmv) | Benzene (ppmv) | % LEL | Hydrogen Sulfide (ppmv) | Drager Tubes   |                |                     |               |                   | Location                           |
|------|-------------|----------------|-------|-------------------------|----------------|----------------|---------------------|---------------|-------------------|------------------------------------|
|      |             |                |       |                         | Benzene (ppmv) | Toluene (ppmv) | Ethylbenzene (ppmv) | Xylene (ppmv) | Mercaptans (ppmv) |                                    |
| 1220 | 0.0         | --             | 0     | 0.004                   | ND             | ND             | ND                  | ND            | ND                | South Campus                       |
| 1245 | 0.0         | --             | 0     | 0.003                   | --             | --             | --                  | --            | --                | Main Building                      |
| 1300 | 0.0         | --             | 0     | 0.005                   | --             | --             | --                  | --            | --                | Staff Lot                          |
| 1319 | 0.0         | --             | 0     | 0.004                   | --             | --             | --                  | --            | --                | Building B – 2 <sup>nd</sup> Level |
| 1323 | 0.0         | --             | 0     | 0.004                   | --             | --             | --                  | --            | --                | Building C – 2 <sup>nd</sup> Level |
| 1330 | 0.0         | --             | 0     | 0.004                   | --             | --             | --                  | --            | --                | Quad/Center                        |
|      |             |                |       |                         |                |                |                     |               |                   |                                    |
|      |             |                |       |                         |                |                |                     |               |                   |                                    |
|      |             |                |       |                         |                |                |                     |               |                   |                                    |
|      |             |                |       |                         |                |                |                     |               |                   |                                    |
|      |             |                |       |                         |                |                |                     |               |                   |                                    |

Weather Conditions: Clear, Calm      Wind Speed: 1 mph      Wind Direction: NE      Temperature: 80 ° F

**Comments:** The UltraRAE is used for measuring Volatile Organic Compound (VOC) and Benzene. The MultiRae is used for measuring VOCs and %LEL (used as an indicator of the potential presence of methane). The Jerome J631X is used for measuring Hydrogen Sulfide. Drager tubes are used for measuring Benzene, Toluene, Xylene, Ethylbenzene, and Mercaptans. %LEL is used as an indicator of methane but is not chemical specific. VOC readings are an indicator of all volatile constituents and are not chemical specific. Real time readings are used to guide sample collection. Samples collected daily are submitted to a laboratory for analyses. **H2S** = Hydrogen Sulfide; **O2** = Oxygen; % = percent; **CO** = Carbon Monoxide; **LEL** = Lower Explosive Limit; **IB** = Isobutylene **ND** = Not Detected; **ppmv** = parts per million by volume; **N/A** = Not Applicable; **--** = No Reading (no measurement taken at this time)