

DIRECT READING AIR MONITORING LOG

CLIENT: Los Angeles Unified School District DATE: 1/26/16 PAGE 1 of 3
 LOCATION: Robert Frost Middle School BY: Robert Pitzer

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

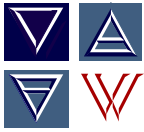
TIME	VOCs (ppmv)	Benzene (ppmv)	% LEL	Hydrogen Sulfide (ppmv)	Drager Tubes					Location
					Benzene (ppmv)	Toluene (ppmv)	Ethylbenzene (ppmv)	Xylene (ppmv)	Mercaptans (ppmv)	
0713	0.00	--	0	0.015	--	--	--	--	--	Bldg. C 2 nd Fl Hall
0717	0.00	--	0	0.003	--	--	--	--	--	Outside Between Bldg. B and C
0720	0.00	--	0	0.005	--	--	--	--	--	Bldg. B 2 nd Fl Hall
0725	0.00	--	0	0.011	--	--	--	--	--	Bldg. C 1st Fl Hall
0728	0.00	--	0	0.015	--	--	--	--	--	Bldg. C 2 nd Fl Hall
0820	0.00	--	0	0.012	--	--	--	--	--	Bldg. C 2 nd Fl Hall
0823	0.00	--	0	0.008	--	--	--	--	--	Bldg. C 2 nd Fl Hall
0825	0.00	--	0	0.023	--	--	--	--	--	Bldg. C 2 nd Fl Rm 53
0829	0.00	--	0	0.012	--	--	--	--	--	Bldg. C Attic - Center
0832	0.00	--	0	0.018	--	--	--	--	--	Bldg. C Attic - North End
0835	0.00	--	0	0.023	--	--	--	--	--	Bldg. C Attic - South End

Weather Conditions: Clear, Windy Wind Speed: 7-10 mph Wind Direction: NW Temperature: 57 ° 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)

Elevated hydrogen sulfide results detected in Building C were further investigated and indicate a potential leak at the HVAC unit in the attic of Building C, which is unoccupied by students.



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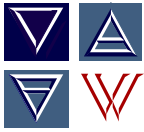
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					Benzene (ppmv)	Toluene (ppmv)	Ethylbenzene (ppmv)	Xylene (ppmv)	Mercaptans (ppmv)	
0837	0.00	--	0	0.053	--	--	--	--	--	Bldg C Attic@Exhaust
0956	0.00	--	0	0.006	--	--	--	--	--	Magnet Office
1004	0.00	--	0	0.010	--	--	--	--	--	Inside Rm #49
1008	0.00	--	0	0.009	--	--	--	--	--	Inside Rm #52
1010	0.00	--	0	0.010	--	--	--	--	--	Inside Rm #53
1012	0.00	--	0	0.008	--	--	--	--	--	Inside Rm #44
1014	0.00	--	0	0.007	--	--	--	--	--	Inside Rm 341
1133	0.00	0.00	0	0.003	ND	ND	ND	ND	ND	Bungalow #58
1305	0.00	--	0	0.002	--	--	--	--	--	Bungalow #55
1308	0.00	--	0	0.002	--	--	--	--	--	Bldg B – 1 st Fl Hall
1315	0.00	--	0	0.004	--	--	--	--	--	Bldg C – 1 st Fl Hall

Weather Conditions: Clear, Windy Wind Speed: 6-13 mph Wind Direction: NE, NW Temperature: 65 ° 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)

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					Benzene (ppmv)	Toluene (ppmv)	Ethylbenzene (ppmv)	Xylene (ppmv)	Mercaptans (ppmv)	
1320	0.00	0.00	0	0.005	ND	ND	ND	ND	ND	Inside Rm #50
1345	0.00	--	0	0.005	--	--	--	--	--	Inside Rm #53

Weather Conditions: Clear, Windy Wind Speed: 5-20 mph Wind Direction: NW Temperature: 70 ° F

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