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HIVOL SAMPLER CALIBRATION DATA SHEET (TSP) Site Information Isol Kung Po Secondary School Location: Site ID: M-A3 Date: 24-Feb-2018 Serial No: Model: TE-5170X Operator: Chris 1048 **Ambient Condition** Corrected Pressure (mm Hg): Temperature (deg K): 764.3 293.2 Calibration Orifice Model: TE-5025 Slope: 2.08721 Serial No .: Intercept: -0.04206 3465 Corr. Coeff: Calibration Due Date: 2-Feb-19 0.99995 **Calibration Data** Plate or In,H2O Qa, X-Axis I, CFM IC, Y-Axia (m3/min) Test # (in) (chart) (corrected) 1 1.00 0.505 29.0 29.32 2 2.70 0.816 37.0 37,41 3 4.60 1.059 43.0 43.48 4.90 1.092 4 44.0 44.49 5 5.30 1.135 45.0 45.50 Sampler Calibtation Relationship (Qa on x-axis, IC on y-axis) Corr. Coeff= m= 25.6306 b= 16.4196 0.9999 Sampler set point(SSP) 47 CFM Calculations Qstd = 1/m[Sqrt(H2O(Pa/Pstd)(Tstd/Ta))-b] m = sampler slope IC = I[Sqrt(Pa/Pstd)(Tstd/Ta)] b = sampler intercept I = chart response Qstd = standard flow rate Tav = average temperature IC = corrected chart response Pav = average pressure I = actual chart response m = calibrator Qstd slope b = calibrator Qstd intercept Ta = actual temperature during calibration (deg K) Pa = actual pressure during calibration (mm Hg) Tstd = 298 deg K Pstd = 760 mm Hg For subsequent calculation of sampler flow: (1.21*m+b)/[Sqrt(298/Tav)(Pav/760)] Checked by: Jan, 24-Feb-18 Date: