Appendix 5B Visjet Output Files of Emergency Overflow

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ARBITRARILY INCLINED BUOYANT JET DISCHARGED IN FLOWING, STRATIFIED AMBIENT
CASE NO.  1                                   JETLAG 2000
TITLE     Jet1

INPUT PARAMETERS
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ENTRAINMENT HYPOTHESIS    : ASYMMETRIC
SHEAR ENTRAINMENT         : VARIABLE (0 - 0.085)
COFLOW FACTOR             : STANDARD
TIME STEP CONTRL          : VARIABLE ( > 0.985 )
MAX NUMBER OF TIME STEPS  :   1500
PRINTOUT INTERVAL         :    100
MAX NUMBER OF ITERATIONS  :      5
ITERATION ERROR BOUND     : 0.00100
APPROX RATIO OF MASS/DMASS :   144.0

ENVIROMENTAL CONDITIONS
^^^^^^^^^^^^^^^^^^^^^^^^
      DEPTH(m)  SIGMAT   U(m/s)
  EXIT    3.00   -2.00   1.118
....... ....... ....... .......
AMBIENT    0.00   14.00   0.050
           1.00   14.50   0.050
           2.00   15.00   0.050
           3.00   15.50   0.050
           3.50   16.00   0.050

LENGTH & DILUTION SCALES
^^^^^^^^^^^^^^^^^^^^^^^^
Total Q  ...  0.0549 (m3/s)       Qj ... 5.49E-02 (m3/s)
Port No. ...  1                  Mj ... 6.13E-02 (m4/s2)
Depth    ...  3.0000 (m)         Bj ... 9.27E-03 (m4/s3)
Diameter ...  0.2500 (m)         lQ ...  0.2216 (m)
Uj       ...  1.1176 (m/s)       lm ...  4.9523 (m)
Ua       ...  0.0500 (m/s)       lb ...  74.1693 (m)
dp/pa    ...  0.01723            lM ...  1.2797 (m)
po       ...  0.99800(g/cc)      Sm ...  22.3524
pa       ...  1.01550(g/cc)      Sb ... 999.0000
Ver. ang ...  0.00               lQ/lm ...  0.0447
Hor. ang ...  90.00              lQ/lM ...  0.1731
Fd       ...  5.44               lm/lb ...  0.0668
Uj/Ua    ...  22.35              lM/lb ...  0.0173

                      Stratification case:
                      T   ...  -122.50

    X       Y       Z      PLUME    AVERAGE   DENSITY  VELOCITY
                           RADIUS  DILUTION    DIFF.
   (m)     (m)     (m)     (m)              (sigmat)   (m/s)
......... ......... ......... ......... ......... ......... .........
  0.000   0.000   0.000   0.125    1.00   17.4999    1.118
  0.017   0.765   0.053   0.244    1.95    8.8577    0.574
  0.113   1.926   0.464   0.451    3.88    4.2761    0.333
  0.351   3.069   1.555   0.743    7.75    1.7302    0.245
  0.706   3.910   3.005   1.099   13.38    0.4360    0.193

 NUMBER OF STEPS =  377
 SURFACE LAYER (CENTER) LEVEL =  2.12 M ABOVE DISCHARGE PORT
             AVG DILUTION =     9.85

 COMPUTATIONS CEASE:  PLUME HITS WATER SURFACE
 AVG DILUTION AT WATER SURFACE =     13.36
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