Results from MQ leaching and seawater (Fe only) leaching experiments - D326 samples

Results are reported in atmospheric concentrations

			Position at start		Position at end		Sample air volume				Ion Chromatography			
											Chloride	Nitrate	Sulphate	nss Sulphate
Sample period	Start Time	End Time	°N	°E	°N	°E	m^3	Filter Position	MQ Leach Sample Label	SW Leach Sample Label	µmol/m^3	µmol/m^3	µmol/m^3	µmol/m^3
1	08/01/08 13:52	10/01/08 06:20	25.336	-23.026	26.7618	-28.9388		#3	SL26		1.176E-01	1.849E-02	1.799E-02	1.364E-02
2	11/01/08 11:11	12/01/08 10:26	25.322	-28.611	23.1406	-27.3724	19.0	#2	SL21		3.604E-01	9.849E-03	2.774E-02	1.201E-02
3	12/01/08 15:07	13/01/08 16:13	22.831	-27.197	20.3778	-25.8290	23.1	#4	SL18		4.517E-01	2.535E-02	4.386E-02	2.160E-02
4	13/01/08 17:10	14/01/08 16:55	20.385	-25.830	18.4079	-24.7537	34.8	#2	SL22		2.556E-01	1.632E-02	3.011E-02	1.756E-02
5	14/01/08 18:09	15/01/08 14:52	18.322	-24.708	17.6796	-24.3048	31.8	#2	SL10		2.930E-01	1.671E-02	2.810E-02	1.297E-02
6	16/01/08 05:32	17/01/08 13:16	15.544	-25.390	12.6561	-25.8887	11.2	#2	SL20		4.926E-01	2.054E-02	4.316E-02	2.361E-02
7	17/01/08 14:03	18/01/08 08:42	12.660	-25.894	12.6972	-27.0998	14.8	#2	SL12		3.554E-01	2.104E-02	3.904E-02	2.289E-02
8	18/01/08 11:43	19/01/08 11:03	12.636	-27.601	12.6071	-30.2926	33.1	#3	SL15		3.010E-01	1.699E-02	2.273E-02	8.469E-03
9	19/01/08 11:51	20/01/08 11:20	12.594	-30.426	12.5368	-33.0352	34.9	#3	SL5		2.213E-01	1.419E-02	2.674E-02	1.368E-02
10	20/01/08 12:00	21/01/08 11:22	12.534	-33.153	12.5389	-35.5035	33.2	#2	SL13		2.054E-01	9.725E-03	1.803E-02	5.679E-03
11	21/01/08 12:07	22/01/08 10:55	12.541	-35.405	12.6161	-32.9446	32.7	#2	SL4		1.509E-01	1.174E-02	1.094E-02	3.356E-03
12	22/01/08 11:50	23/01/08 13:40	12.606	-32.790	12.5041	-30.6479	36.4	#2	SL23		1.135E-01	6.001E-03	9.603E-03	4.847E-03
13	23/01/08 17:31	24/01/08 14:58	12.999	-30.634	16.1288	-30.6364	31.2	#2	SL2		5.892E-02	5.652E-03	5.534E-03	1.735E-03
14	24/01/08 16:24	25/01/08 09:45	16.141	-30.578	16.1711	-30.6367	24.4	#2	SL17		3.089E-02		1.811E-03	-2.089E-03
15	25/01/08 10:32	25/01/08 19:30	16.177	-30.638	16.2009	-30.6691	13.4	#2	SL19		1.645E-01	1.685E-02	2.199E-02	1.758E-02
16	25/01/08 20:11	26/01/08 09:09	16.206	-30.667	16.2254	-30.6575	18.0	#2	SL11		1.444E-01	2.055E-02	1.870E-02	1.326E-02
17	26/01/08 10:50	26/01/08 19:50	16.219	-30.632	16.2040	-30.6375	12.4	#2	SL7		1.198E-01	1.947E-02	1.633E-02	1.185E-02
18	26/01/08 20:40	27/01/08 09:11	16.200	-30.639	16.2576	-30.6596	17.0	#2	SL6		1.178E-01	1.774E-02	1.605E-02	1.156E-02
19	27/01/08 09:45	27/01/08 20:38	16.222	-30.644	16.2469	-30.6590	15.2	#2	SL40		1.888E-01	2.163E-02	2.145E-02	1.436E-02
20	27/01/08 21:10	28/01/08 09:48	16.248	-30.665	16.5991	-28.5761	18.4	#2	SL42		1.435E-01	2.274E-02	1.971E-02	1.192E-02
21	28/01/08 10:35	28/01/08 22:32	16.626	-28.446	17.0043	-26.5056	16.7	#2	SL29		1.865E-01	2.795E-02	3.195E-02	2.005E-02
22	28/01/08 23:34	29/01/08 09:38	17.012	-26.513	18.4896	-26.6753	14.7	#2	SL44		1.800E-01	2.482E-02	4.452E-02	3.878E-02
23	29/01/08 14:38	30/01/08 10:16	19.332	-26.776	22.2523	-27.1273	18.4	#4	SL36		2.133E-01	3.278E-02	5.885E-02	4.995E-02
24	30/01/08 11:00	30/01/08 19:32	22.383	-27.142	23.3760	-27.5087	13.1	#3	SL46		1.822E-01	2.930E-02	2.785E-02	2.304E-02
25	30/01/08 20:15	31/01/08 09:20	23.494	-27.576	25.0929	-28.4814	17.6	#2	SL49	SSL2	4.213E-01	2.414E-02	3.384E-02	1.770E-02
26	31/01/08 10:18	01/02/08 12:18	25.126	-28.388	26.2271	-26.0952	37.5	#2	SL45		3.411E-01	2.713E-02	3.450E-02	1.863E-02
27	01/02/08 13:05	02/02/08 10:42	26.239	-26.009	26.6492	-23.3761	32.9	#2	SL39		1.799E-01	1.879E-02	2.370E-02	1.657E-02
28	02/02/08 12:08	03/02/08 12:52	26.689	-23.126	27.2009	-20.2799	35.4	#2	SL34		6.549E-02	1.289E-02	8.227E-03	5.444E-03
29	03/02/08 14:00	04/02/08 11:30	27.221	-20.047	28.0555	-16.1796	32.3	#2	SL41		4.486E-02	1.020E-02	7.085E-03	5.529E-03

Autoanalyser Nutrients				ICP-MS →												
Mean Nitrate	Mean Silicate	Mean Phosphate	Ammonium	Na	Mg	Al	K	Ca	Sc	Ti	V	Cr	Mn	Fe	Co	Ni
µmol/m^3	µmol/m^3	µmol/m^3	µmol/m^3	µg/m^3	ng/m^3	ng/m^3	ng/m^3	µg/m^3	ng/m^3	ng/m^3	ng/m^3	ng/m^3	ng/m^3	ng/m^3	ng/m^3	ng/m^3
1.849E-02	1.481E-04	1.777E-04	1.281E-03	1.662E+00	2.248E+02	2.526E+01	7.719E+01	3.245E-01	1.903E-02	-1.745E-01	7.101E-01	9.508E-02	1.589E+00	2.025E+01	3.924E-02	3.891E-01
9.849E-03	5.260E-05	7.363E-05	2.919E-02	6.001E+00	7.789E+02	-1.843E+00	2.297E+02	3.183E-01	1.788E-03	-3.607E-01	2.188E-01	5.701E-02	2.216E-01	-1.038E+00	1.473E-02	1.680E-01
2.535E-02	2.162E-04	1.384E-04	2.785E-03	8.493E+00	1.118E+03	3.637E+01	3.708E+02	7.339E-01	9.599E-03	3.973E-01	1.487E+00	8.030E-02	2.644E+00	2.572E+01	5.833E-02	6.510E-01
1.632E-02	2.013E-04	1.064E-04	2.166E-03	4.787E+00	6.402E+02	3.976E+01	2.098E+02	5.514E-01	9.233E-03	5.207E-01	1.390E+00	8.258E-02	2.652E+00	2.828E+01	4.223E-02	5.579E-01
1.671E-02	2.834E-04	1.354E-04	1.184E-02	5.770E+00	7.653E+02	5.813E+01	2.547E+02	6.021E-01	1.641E-02	7.641E-01	1.105E+00	1.391E-01	3.194E+00	4.706E+01	5.130E-02	4.752E-01
2.054E-02	3.582E-04	4.119E-04	6.600E-03	7.458E+00	1.005E+03	5.507E+01	3.186E+02	7.396E-01	1.030E-02	7.100E-01	4.275E-01	1.290E-01	4.070E+00	3.838E+01	6.054E-02	2.676E-01
2.104E-02	2.230E-03	1.074E-03	7.900E-03	6.159E+00	1.155E+03	7.118E+02	5.313E+02	3.030E+00	1.560E-01	3.838E+00	1.520E+00	8.464E-01	4.096E+01	5.040E+02	5.578E-01	1.068E+00
1.699E-02	1.785E-03	5.596E-04	8.651E-04	5.440E+00	7.967E+02	4.633E+02	3.989E+02	1.558E+00	1.041E-01	3.354E+00	9.864E-01	4.814E-01	2.881E+01	2.827E+02	3.439E-01	5.516E-01
1.419E-02	1.002E-03	3.978E-04	3.328E-03	4.980E+00	7.756E+02	4.531E+02	3.928E+02	1.798E+00	1.121E-01	2.644E+00	8.610E-01	5.371E-01	2.375E+01	2.787E+02	2.939E-01	5.474E-01
9.725E-03	6.334E-04	2.051E-04	7.963E-04	4.710E+00	6.551E+02	1.486E+02	2.743E+02	6.979E-01	2.639E-02	1.597E+00	4.681E-01	1.832E-01	8.227E+00	9.527E+01	1.200E-01	2.818E-01
1.174E-02	0.000E+00	1.222E-05	2.448E-03	2.892E+00	3.726E+02	-1.809E-01	1.152E+02	1.454E-01	-4.982E-03	-1.179E-01	2.540E-02	5.244E-02	1.543E-01	-8.084E-01	1.620E-03	3.750E-02
6.001E-03	2.744E-05	2.744E-05	1.722E-02	1.814E+00	2.229E+02	-8.183E-01	6.911E+01	9.477E-02	-2.305E-03	-1.710E-01	4.187E-02	8.706E-02	1.837E-01	-3.582E-01	2.058E-03	3.366E-02
5.652E-03	3.200E-05	1.600E-05	2.301E-03	1.449E+00	1.437E+02	8.288E+00	7.345E+01	8.910E-02	3.168E-03	3.878E-01	1.576E-01	2.478E-01	4.367E-01	5.636E+00	6.529E-03	9.332E-02
8.017E-03	3.281E-04	1.517E-04	2.098E-02	1.488E+00	2.166E+02	6.579E+01	1.154E+02	2.812E-01	2.050E-02	4.614E-01	1.364E-01	1.663E-01	4.241E+00	4.424E+01	7.103E-02	1.236E-01
1.685E-02	2.385E-03	1.028E-03	7.505E-03	1.684E+00	4.548E+02	8.470E+02	3.451E+02	1.586E+00	1.973E-01	3.583E+00	1.277E+00	1.005E+00	3.700E+01	5.308E+02	5.513E-01	9.191E-01
2.055E-02	1.998E-03	1.143E-03	3.963E-03	2.077E+00	4.919E+02	7.331E+02	5.156E+02	2.019E+00	1.857E-01	3.615E+00	1.352E+00	8.170E-01	5.295E+01	4.640E+02	5.818E-01	1.107E+00
1.947E-02	2.978E-03	1.151E-03	3.638E-03	1.710E+00	4.514E+02	8.139E+02	4.016E+02	1.656E+00	1.844E-01	2.748E+00	1.291E+00	9.753E-01	4.086E+01	4.928E+02	5.330E-01	8.623E-01
1.774E-02	2.230E-03	8.860E-04	3.397E-03	1.711E+00	4.212E+02	6.164E+02	3.313E+02	1.431E+00	1.394E-01	2.706E+00	1.045E+00	7.300E-01	3.264E+01	3.996E+02	4.465E-01	7.278E-01
2.163E-02	3.945E-03	7.035E-04	6.831E-03	2.703E+00	5.656E+02	7.191E+02	3.421E+02	1.327E+00	1.519E-01	3.184E+00	1.222E+00	8.016E-01	3.659E+01	4.875E+02	5.206E-01	8.708E-01
2.274E-02	3.527E-03	6.078E-04	5.090E-03	2.971E+00	6.927E+02	9.456E+02	4.788E+02	1.889E+00	2.293E-01	4.143E+00	1.938E+00	1.125E+00	4.609E+01	6.152E+02	6.226E-01	1.209E+00
2.795E-02	5.022E-03	7.353E-04	1.507E-03	4.540E+00	1.087E+03	1.288E+03	6.091E+02	2.852E+00	2.362E-01	6.579E+00	2.805E+00	1.358E+00	4.161E+01	8.884E+02	6.955E-01	1.726E+00
2.482E-02	7.054E-03	9.292E-04	3.343E-02	2.192E+00	6.455E+02	8.583E+02	3.045E+02	2.023E+00	1.460E-01	3.040E+00	1.387E+00	9.280E-01	3.236E+01	5.758E+02	5.055E-01	9.881E-01
3.278E-02	5.768E-03	9.414E-04	1.143E-03	3.394E+00	7.416E+02	9.009E+02	4.852E+02	3.050E+00	2.023E-01	5.700E+00	1.504E+00	9.883E-01	3.125E+01	5.956E+02	4.575E-01	9.404E-01
2.930E-02	7.648E-03	5.660E-04	1.690E-03	1.834E+00	4.916E+02	1.120E+03	4.028E+02	1.765E+00	2.588E-01	6.918E+00	1.525E+00	1.171E+00	4.013E+01	6.840E+02	5.696E-01	1.005E+00
2.414E-02	4.260E-03	4.828E-04	9.940E-04	6.159E+00	8.838E+02	7.245E+02	4.432E+02	1.685E+00	1.727E-01	4.275E+00	1.075E+00	7.541E-01	3.435E+01	4.594E+02	4.176E-01	7.135E-01
2.713E-02	2.028E-03	2.161E-04	1.961E-03	6.054E+00	8.385E+02	2.085E+02	3.056E+02	8.385E-01	4.616E-02	1.155E+00	1.615E+00	2.620E-01	1.085E+01	1.320E+02	1.763E-01	8.058E-01
1.879E-02	1.518E-04	8.498E-05	3.220E-03	2.718E+00	3.579E+02	9.927E+00	1.219E+02	1.906E-01	3.248E-03	-9.634E-02	1.064E+00	3.906E-02	1.158E+00	8.623E+00	2.474E-02	4.201E-01
1.289E-02	5.652E-05	4.521E-05	6.558E-02	1.062E+00	1.419E+02	3.782E+00	5.763E+01	8.058E-02	-1.950E-03	-1.832E-01	1.553E-01	5.550E-02	7.224E-01	2.013E+00	8.647E-03	8.661E-02
1.020E-02	-3.096E-05	4.024E-05	3.523E-03	5.935E-01	8.218E+01	-1.223E+00	1.418E+01	4.012E-02	-5.975E-03	-2.289E-01	8.186E-01	6.229E-02	9.473E-02	-7.058E-01	5.049E-02	4.608E-01

Cu	Zn	Ga	Rb	Sr	Y	Nb	Ag	Cd	Sn	Cs	Ba	La	Ce
ng/m^3	ng/m^3	ng/m^3	ng/m^3	ng/m^3	ng/m^3	ng/m^3	ng/m^3	ng/m^3	ng/m^3	ng/m^3	ng/m^3	ng/m^3	ng/m^3
1.622E-01	1.830E+00		6.094E-02	2.669E+00	1.933E-02	-9.626E-04	-5.479E-03	-2.073E-03	1.644E+00	2.444E-03	1.017E+00	2.569E-02	5.317E-02
1.332E-01	2.382E+00		8.100E-02	4.953E+00	2.104E-03	-2.104E-03	-1.893E-03	-5.786E-04	1.177E+00	7.363E-04	9.808E-01	3.314E-03	4.313E-03
2.692E-01	2.230E+00		1.949E-01	8.628E+00	3.507E-02	2.551E-03	-2.854E-03	2.197E-02	8.608E-01	4.843E-03	1.250E+00	3.995E-02	8.903E-02
1.813E-01	1.883E+00		1.422E-01	5.465E+00	3.109E-02	3.049E-03	-1.841E-03	1.430E-02	6.073E-01	3.941E-03	1.440E+00	3.308E-02	7.608E-02
1.529E-01	1.956E+00		1.706E-01	6.561E+00	3.697E-02	5.102E-03	-1.953E-03	1.786E-02	4.726E-01	4.818E-03	1.698E+00	4.381E-02	1.039E-01
1.386E-01	2.032E+00		2.245E-01	8.565E+00	3.779E-02	4.746E-03	-6.448E-03	1.487E-02	1.583E+00	4.567E-03	3.238E+00	5.113E-02	1.177E-01
6.917E-01	2.735E+00		1.117E+00	3.865E+01	5.018E-01	5.210E-02	-3.176E-03	8.177E-03	1.097E+00	4.332E-02	2.491E+01	6.289E-01	1.551E+00
3.165E-01	1.484E+00		7.054E-01	1.276E+01	2.985E-01	3.460E-02	-1.512E-03	1.165E-02	4.492E-01	2.278E-02	1.464E+01	3.111E-01	8.678E-01
4.501E-01	2.688E+00		6.555E-01	1.858E+01	2.684E-01	2.378E-02	-9.157E-04	8.757E-03	7.518E-01	2.304E-02	1.255E+01	3.243E-01	8.375E-01
1.933E-01	1.417E+00		2.958E-01	7.308E+00	9.351E-02	9.683E-03	-4.525E-04	5.339E-03	7.343E-01	9.110E-03	5.504E+00	1.074E-01	2.875E-01
4.471E-02	8.085E-01		5.009E-02	2.227E+00	1.284E-03	1.222E-04	-2.323E-03	8.130E-03	9.993E-01	1.498E-03	4.681E-01	1.650E-03	1.834E-03
4.115E-02	5.437E-01		3.210E-02	1.431E+00	1.948E-03	-1.043E-03	-1.591E-03	9.603E-03	5.948E-01	1.427E-03	3.808E-02	1.564E-03	3.402E-03
1.799E-01	1.224E+00		2.823E-02	9.990E-01	3.456E-03	2.496E-03	-2.240E-04	1.143E-02	1.073E+00	2.976E-03	4.648E-01	3.392E-03	6.273E-03
1.463E-01	8.763E-01		1.209E-01	2.664E+00	5.795E-02	4.019E-03	-2.255E-03	5.208E-03	1.258E+00	4.265E-03	3.223E+00	5.557E-02	1.362E-01
7.022E-01	3.256E+00		1.031E+00	1.176E+01	6.452E-01	5.150E-02	-1.341E-03	1.170E-02	1.275E+00	4.718E-02	1.727E+01	6.911E-01	1.782E+00
1.161E+00	3.833E+00		1.106E+00	1.441E+01	6.099E-01	4.945E-02	-1.443E-03	1.993E-02	1.346E+00	3.602E-02	1.613E+01	6.800E-01	1.707E+00
6.724E-01	2.525E+00		1.052E+00	1.288E+01	6.302E-01	5.215E-02	-1.127E-03	4.588E-03	1.652E+00	4.338E-02	1.622E+01	7.390E-01	1.864E+00
5.944E-01	3.720E+00		9.002E-01	1.127E+01	4.843E-01	4.753E-02	-2.288E-03	1.309E-02	7.498E-01	3.562E-02	1.401E+01	5.828E-01	1.451E+00
6.069E-01	2.206E+00		1.058E+00	1.109E+01	6.154E-01	5.174E-02	-1.709E-03	4.668E-03	5.351E-01	4.431E-02	1.609E+01	7.076E-01	1.768E+00
7.156E-01	3.007E+00		1.324E+00	1.636E+01	7.266E-01	5.052E-02	1.248E-03	2.507E-02	8.036E-01	5.296E-02	2.036E+01	8.926E-01	2.225E+00
1.042E+00	4.186E+00		1.534E+00	2.323E+01	7.283E-01	7.168E-02	4.783E-04	2.122E-02	6.638E-01	7.658E-02	2.817E+01	8.496E-01	2.153E+00
6.066E-01	2.589E+00		1.036E+00	2.136E+01	6.222E-01	2.625E-02	-2.306E-03	2.916E-03	7.423E-01	4.795E-02	1.870E+01	6.654E-01	1.734E+00
7.192E-01	2.396E+00		1.129E+00	2.318E+01	5.489E-01	4.892E-02	-2.612E-03	1.001E-02	6.490E-01	4.332E-02	1.904E+01	6.665E-01	1.599E+00
7.875E-01	4.190E+00		1.434E+00	1.396E+01	7.761E-01	8.696E-02	-1.836E-03	1.078E-02	7.719E-01	5.224E-02	2.070E+01	1.080E+00	2.605E+00
7.679E-01	3.739E+00		9.785E-01	1.405E+01	4.870E-01	5.691E-02	-4.090E-03	4.391E-02	3.688E-01	3.590E-02	1.616E+01	6.594E-01	1.593E+00
3.188E-01	2.618E+00		3.786E-01	7.846E+00	1.293E-01	1.273E-02	-4.269E-04	3.968E-02	3.525E-01	1.273E-02	4.610E+00	1.694E-01	4.086E-01
1.598E-01	2.432E+00		1.295E-01	2.490E+00	1.357E-02	9.713E-04	-2.034E-03	2.116E-02	3.777E-01	3.885E-03	4.431E-01	1.933E-02	3.824E-02
1.624E-01	1.052E+00		9.401E-02	9.793E-01	8.901E-03	-1.272E-03	-2.374E-03	3.504E-03	5.661E-01	1.328E-03	1.864E-01	1.026E-02	2.331E-02
1.057E-01	6.740E-01		1.662E-02	5.441E-01	1.610E-03	-1.919E-03	-1.765E-03	-9.287E-04	5.517E-01	3.715E-04	4.563E-02	2.786E-03	6.006E-03

Pr	Nd	Sm	Eu	Gd	Tb	Dy	Ho	Er	Tm	Yb	Lu	Pb	Th	U	Fe (SW)
ng/m^3	ng/m^3	ng/m^3	ng/m^3	ng/m^3	ng/m^3	ng/m^3	ng/m^3	ng/m^3	ng/m^3	ng/m^3	ng/m^3	ng/m^3	ng/m^3	ng/m^3	ng/m^3
6.220E-03	2.562E-02	6.738E-03	1.555E-03	4.665E-03	7.405E-04	3.776E-03	5.924E-04	1.407E-03	3.702E-04	1.999E-03	1.481E-04	2.407E-01	-4.443E-04	3.184E-03	
3.682E-04	2.367E-03	-1.052E-04	4.208E-04	2.104E-04	0.000E+00	2.104E-04	1.052E-04	1.052E-04	0.000E+00	2.630E-04	0.000E+00	9.604E-02	-1.052E-03	1.473E-03	
1.059E-02	4.462E-02	9.772E-03	2.162E-03	9.945E-03	1.384E-03	6.875E-03	1.513E-03	3.762E-03	4.324E-04	2.681E-03	3.027E-04	3.001E+00	1.340E-03	6.270E-03	
8.341E-03	3.598E-02	8.543E-03	2.186E-03	9.319E-03	1.007E-03	5.782E-03	1.122E-03	2.359E-03	2.876E-04	1.956E-03	2.589E-04	3.343E+00	1.381E-03	5.149E-03	
1.212E-02	4.910E-02	1.008E-02	2.708E-03	1.159E-02	1.260E-03	8.125E-03	1.291E-03	4.031E-03	4.094E-04	2.708E-03	3.149E-04	9.665E-01	2.205E-03	5.795E-03	
1.370E-02	5.445E-02	9.492E-03	2.955E-03	1.084E-02	9.850E-04	7.522E-03	1.522E-03	2.955E-03	3.582E-04	3.582E-03	2.686E-04	5.953E-01	2.686E-04	7.254E-03	
1.785E-01	7.329E-01	1.523E-01	4.109E-02	1.646E-01	1.994E-02	9.914E-02	1.777E-02	4.690E-02	5.676E-03	3.751E-02	5.339E-03	5.773E-01	1.439E-02	5.947E-02	
9.531E-02	4.050E-01	8.926E-02	2.517E-02	9.184E-02	1.159E-02	5.950E-02	1.122E-02	2.735E-02	3.630E-03	2.181E-02	3.116E-03	3.856E-01	1.355E-02	2.852E-02	
9.721E-02	3.933E-01	8.525E-02	2.229E-02	9.066E-02	1.073E-02	5.388E-02	9.558E-03	2.633E-02	3.176E-03	1.972E-02	2.719E-03	4.213E-01	1.316E-02	2.719E-02	
3.092E-02	1.207E-01	3.309E-02	7.330E-03	2.941E-02	3.559E-03	1.979E-02	2.956E-03	9.441E-03	1.056E-03	5.882E-03	9.049E-04	2.942E-01	4.193E-03	8.657E-03	
2.445E-04	1.070E-03	-1.222E-04	9.169E-05	2.139E-04	0.000E+00	6.112E-05	3.056E-05	2.139E-04	0.000E+00	9.169E-05	3.056E-05	1.533E-01	-6.418E-04	8.863E-04	
4.390E-04	7.957E-04	0.000E+00	2.744E-05	2.744E-05	5.487E-05	4.115E-04	5.487E-05	1.646E-04	0.000E+00	8.231E-05	2.744E-05	1.642E-01	-5.213E-04	7.957E-04	
6.401E-04	1.792E-03	7.681E-04	2.560E-04	5.761E-04	9.601E-05	3.520E-04	9.601E-05	9.601E-05	9.601E-05	3.520E-04	6.401E-05	2.190E-01	-5.441E-04	5.761E-04	
1.665E-02	6.992E-02	1.452E-02	4.101E-03	1.739E-02	2.091E-03	9.883E-03	1.804E-03	5.167E-03	6.971E-04	3.814E-03	6.151E-04	1.261E-01	6.151E-04	4.921E-03	
2.035E-01	8.471E-01	1.795E-01	4.874E-02	2.059E-01	2.497E-02	1.239E-01	2.184E-02	6.193E-02	8.123E-03	4.658E-02	6.111E-03	6.078E-01	1.699E-02	5.068E-02	
1.902E-01	7.945E-01	1.748E-01	4.412E-02	1.858E-01	2.281E-02	1.157E-01	1.965E-02	5.772E-02	7.382E-03	4.462E-02	5.661E-03	5.092E-01	2.309E-02	5.878E-02	
2.088E-01	8.489E-01	1.870E-01	4.515E-02	2.006E-01	2.398E-02	1.256E-01	2.117E-02	6.020E-02	6.922E-03	4.901E-02	5.956E-03	4.642E-01	1.746E-02	5.207E-02	
1.628E-01	6.822E-01	1.429E-01	3.515E-02	1.492E-01	1.872E-02	9.471E-02	1.620E-02	4.776E-02	5.164E-03	3.497E-02	5.281E-03	3.921E-01	2.036E-02	4.260E-02	
2.024E-01	8.429E-01	1.782E-01	4.379E-02	1.907E-01	2.341E-02	1.215E-01	2.130E-02	5.950E-02	6.838E-03	4.635E-02	5.720E-03	5.341E-01	2.025E-02	5.207E-02	
2.478E-01	1.044E+00	2.205E-01	5.188E-02	2.336E-01	2.881E-02	1.439E-01	2.730E-02	6.995E-02	9.008E-03	5.188E-02	7.054E-03	6.959E-01	2.344E-02	6.186E-02	
2.492E-01	1.038E+00	2.333E-01	5.781E-02	2.423E-01	2.864E-02	1.510E-01	2.684E-02	7.078E-02	8.190E-03	5.823E-02	6.636E-03	1.069E+00	4.101E-02	6.391E-02	
2.001E-01	8.333E-01	1.818E-01	4.619E-02	1.925E-01	2.462E-02	1.280E-01	2.374E-02	6.213E-02	7.393E-03	4.605E-02	6.782E-03	6.300E-01	1.465E-02	5.589E-02	
1.854E-01	7.565E-01	1.671E-01	4.283E-02	1.702E-01	2.149E-02	1.086E-01	1.997E-02	5.463E-02	6.367E-03	4.212E-02	5.278E-03	5.537E-01	5.082E-02	5.414E-02	
2.950E-01	1.179E+00	2.368E-01	5.859E-02	2.525E-01	3.197E-02	1.548E-01	2.761E-02	7.396E-02	9.713E-03	5.560E-02	8.337E-03	6.407E-01	2.983E-02	6.577E-02	
1.870E-01	7.405E-01	1.438E-01	3.754E-02	1.631E-01	2.062E-02	9.412E-02	1.772E-02	4.760E-02	6.134E-03	3.862E-02	4.998E-03	4.776E-01	2.607E-02	5.049E-02	1.464E+02
4.592E-02	1.911E-01	3.736E-02	9.606E-03	4.280E-02	5.390E-03	3.023E-02	4.830E-03	1.289E-02	1.521E-03	9.526E-03	1.334E-03	5.704E+00	9.259E-03	1.332E-02	
4.735E-03	1.788E-02	3.248E-03	1.123E-03	5.190E-03	5.160E-04	2.853E-03	5.463E-04	1.427E-03	9.106E-05	1.123E-03	1.518E-04	7.098E-01	6.070E-05	2.034E-03	
2.685E-03	1.130E-02	2.430E-03	7.065E-04	2.402E-03	2.543E-04	1.215E-03	1.978E-04	9.043E-04	8.477E-05	6.499E-04	1.130E-04	9.981E-02	-1.978E-04	1.017E-03	
6.501E-04	1.734E-03	3.096E-04	1.548E-04	-3.096E-05	3.096E-05	9.287E-05	6.191E-05	1.548E-04	0.000E+00	3.096E-05	0.000E+00	5.170E-02	-5.263E-04	3.096E-04	