Appendix A

Summary of Flux Chamber Data

Appendix A
Summary of Flux Chamber Data

Pit 10 Data				
Date	Time	Press (mbar)	Q_{swp} (L/min)	ΔC_f (ppm)
08/15/01	1505	850.1	1.5	8.8
08/15/01	1615	848.1	1.5	78.6
08/15/01	1725	848.9	1.5	142.0
08/15/01	1835	848.5	1.5	81.3
08/15/01	1945	849.1	1.5	40.1
08/15/01	2055	850.4	1.5	4.6
08/15/01	2205	850.6	1.5	5.9
08/15/01	2315	850.8	1.4	2.8
08/16/01	25	851.1	1.4	7.3
08/16/01	135	851.1	1.4	2.0
08/16/01	245	851.3	1.4	5.3
08/16/01	355	851.5	1.4	4.1
08/16/01	505	851.9	1.4	1.1
08/16/01	615	851.7	1.4	10.4
08/16/01	725	852.2	1.4	10.0
08/16/01	835	852.7	1.5	13.2
08/16/01	945	851.6	1.5	15.8
08/16/01	1055	852.2	1.5	9.2
08/16/01	1205	851.8	1.5	3.9
08/16/01	1315	851.3	1.5	1.9
08/16/01	1425	850.9	1.5	1.7
08/16/01	1535	850.0	1.5	5.0
08/16/01	1645	849.7	1.5	6.8
08/16/01	1755	849.0	1.5	2.9
08/16/01	1905	849.2	1.5	1.8
08/16/01	2015	849.1	1.5	2.9
08/16/01	2125	849.5	1.5	6.9
08/16/01	2235	850.2	1.4	0.0
08/16/01	2345	850.5	1.4	9.4
08/17/01	55	850.8	1.4	0.0
08/17/01	205	851.2	1.4	10.4
08/17/01	315	851.6	1.4	2.7
08/17/01	425	851.4	1.4	0.0
08/17/01	535	852.1	1.4	10.7
08/17/01	645	851.9	1.4	5.2
08/17/01	755	851.6	1.5	11.9
08/17/01	905	853.1	1.4	9.4
08/17/01	1015	852.8	1.5	9.1
08/17/01	1125	852.5	1.5	6.0
08/17/01	1235	851.9	1.5	6.0
08/17/01	1345	851.0	1.5	6.7
08/17/01	1455	851.3	1.5	6.7
08/17/01	1605	849.7	1.5	10.3
08/17/01	1715	849.2	1.5	0.5
08/17/01	1825	848.4	1.5	8.8
08/17/01	1935	848.2	1.5	4.4
08/17/01	2045	848.1	1.5	4.8
08/17/01	2155	848.4	1.5	7.9
08/17/01	2305	848.4	1.4	1.8
08/18/01	15	848.6	1.4	5.4

Pit 10 Data				
Date	Time	Press (mbar)	Q_{swp} (L/min)	ΔC_f (ppm)
08/18/01	125	848.6	1.4	4.9
08/18/01	235	848.8	1.4	9.3
08/18/01	345	848.6	1.4	4.2
08/18/01	455	848.8	1.4	7.8
08/18/01	605	848.3	1.4	7.8
08/18/01	715	848.9	1.4	6.7
08/18/01	825	849.2	1.5	1.2
08/18/01	935	849.4	1.5	10.5
08/18/01	1045	849.1	1.5	13.6
08/18/01	1155	848.4	1.5	8.4
08/18/01	1305	848.0	1.5	10.7
08/18/01	1415	847.8	1.5	0.8
08/18/01	1525	847.6	1.5	0.0
08/18/01	1635	846.8	1.5	4.5
08/18/01	1745	846.3	1.5	5.1
08/18/01	1855	845.7	1.5	4.3
08/18/01	2005	845.9	1.5	6.4
08/18/01	2115	846.2	1.5	1.6
08/18/01	2225	846.3	1.4	5.4
08/18/01	2335	846.5	1.4	2.7
08/19/01	45	846.7	1.4	7.9
08/19/01	155	846.7	1.4	9.4
08/19/01	305	846.9	1.4	2.7
08/19/01	415	846.4	1.4	8.2
08/19/01	525	846.5	1.4	12.3
08/19/01	635	847.2	1.4	7.2
08/19/01	745	847.7	1.4	13.3
08/19/01	855	847.4	1.5	12.5
08/19/01	1005	849.1	1.5	13.2
08/19/01	1115	848.0	1.5	8.8
08/19/01	1225	847.3	1.5	11.6
08/19/01	1335	847.3	1.5	8.5
08/19/01	1445	847.0	1.5	8.2
08/19/01	1555	846.1	1.5	9.1
08/19/01	1705	845.6	1.5	10.6
08/19/01	1815	845.2	1.5	6.9
08/19/01	1925	844.7	1.5	9.5
08/19/01	2035	844.7	1.5	12.6
08/19/01	2145	845.1	1.5	9.3
08/19/01	2255	845.4	1.4	11.0
08/20/01	5	845.7	1.4	9.9
08/20/01	115	845.8	1.4	13.6
08/20/01	225	845.9	1.4	10.6
08/20/01	335	846.1	1.4	12.8
08/20/01	445	845.8	1.4	8.0
08/20/01	555	846.2	1.4	5.5
08/20/01	705	846.4	1.4	11.5
08/20/01	815	846.8	1.4	12.9
08/20/01	925	846.8	1.5	16.7
08/20/01	1035	846.1	1.5	13.2

Pit 10 Data				
Date	Time	Press (mbar)	Q_{swp} (L/min)	ΔC_f (ppm)
08/20/01	1145	846.5	1.5	11.9
08/20/01	1255	846.4	1.5	8.5
08/20/01	1405	844.2	1.5	8.3
08/20/01	1515	844.5	1.5	7.8
08/20/01	1625	842.8	1.5	8.4
08/20/01	1735	842.3	1.5	7.1
08/20/01	1845	841.8	1.5	13.4
08/20/01	1955	841.7	1.5	8.9
08/20/01	2105	842.1	1.5	12.8
08/20/01	2215	842.8	1.4	7.1
08/20/01	2325	842.8	1.4	10.9
08/21/01	35	843.1	1.4	7.1
08/21/01	145	843.6	1.4	15.0
08/21/01	255	844.1	1.4	17.4
08/21/01	405	844.4	1.4	15.7
08/21/01	515	844.7	1.4	12.6
08/21/01	625	845.1	1.4	11.9
08/21/01	735	845.7	1.4	13.7
08/21/01	845	846.0	1.5	12.6
08/21/01	955	846.1	1.5	15.9
08/21/01	1105	846.6	1.5	17.8
08/21/01	1215	845.9	1.5	14.3
08/21/01	1325	844.9	1.5	13.5
08/21/01	1435	844.9	1.5	12.0
08/21/01	1545	844.2	1.5	117.5
08/21/01	1655	844.0	1.5	80.5
08/21/01	1805	844.1	1.5	60.5
08/21/01	1915	844.0	1.5	26.8
08/21/01	2025	844.7	1.4	22.1
08/21/01	2135	845.6	1.4	34.7
08/21/01	2245	846.2	1.4	33.6
08/21/01	2355	847.2	1.4	27.0
08/22/01	105	847.1	1.4	36.2
08/22/01	215	847.1	1.4	39.7
08/22/01	325	847.3	1.4	36.1
08/22/01	435	847.2	1.4	37.1
08/22/01	545	847.4	1.4	33.8
08/22/01	655	847.8	1.3	36.6
08/22/01	805	848.4	1.5	46.1
08/22/01	915	849.4	1.4	88.5
08/22/01	1025	848.3	1.5	109.9
08/22/01	1135	848.1	1.5	111.4
08/22/01	1245	847.3	1.5	84.9
08/22/01	1355	846.7	1.5	113.1
08/22/01	1505	846.1	1.5	123.9
08/22/01	1615	845.1	1.5	95.0
08/22/01	1725	844.5	1.5	107.5
08/22/01	1835	844.1	1.5	69.8
08/22/01	1945	844.2	1.5	64.6
08/22/01	2055	844.3	1.4	59.6
08/22/01	2205	845.1	1.4	25.0
08/22/01	2315	845.1	1.4	47.9
08/23/01	25	845.4	1.4	32.5
08/23/01	135	845.5	1.4	41.7
08/23/01	245	845.5	1.4	47.9
08/23/01	355	845.6	1.4	39.4

Pit 10 Data				
Date	Time	Press (mbar)	Q_{swp} (L/min)	ΔC_f (ppm)
08/23/01	505	845.9	1.4	42.4
08/23/01	615	846.0	1.4	37.2
08/23/01	725	847.2	1.4	29.5
08/23/01	835	848.5	1.5	36.8
08/23/01	945	847.8	1.5	55.9
08/23/01	1055	848.4	1.5	40.5
08/23/01	1205	847.9	1.5	35.0
08/23/01	1315	847.9	1.5	23.6
08/23/01	1425	848.0	1.5	30.8
08/23/01	1535	848.1	1.5	27.7
08/23/01	1645	847.0	1.5	31.4
08/23/01	1755	846.5	1.5	27.5
08/23/01	1905	846.5	1.5	22.4
08/23/01	2015	846.3	1.5	16.6
08/23/01	2125	846.7	1.5	19.5
08/23/01	2235	847.1	1.5	21.2
08/23/01	2345	847.0	1.5	24.9
08/24/01	55	847.0	1.4	30.2
08/24/01	205	847.3	1.4	25.9
08/24/01	315	847.3	1.4	39.4
08/24/01	425	847.4	1.4	40.1
08/24/01	535	847.6	1.4	33.9
08/24/01	645	848.2	1.4	40.2
08/24/01	755	848.4	1.4	39.2
08/24/01	905	848.6	1.5	58.6
08/24/01	1015	848.4	1.5	108.5
08/24/01	1125	848.1	1.5	106.7
08/24/01	1235	848.6	1.5	33.7
08/24/01	1345	847.2	1.5	29.4
08/24/01	1455	847.1	1.5	33.0
08/24/01	1605	847.0	1.5	26.3
08/24/01	1715	846.8	1.5	22.5
08/24/01	1825	846.7	1.5	23.2
08/24/01	1935	846.7	1.5	17.9
08/24/01	2045	847.0	1.5	17.7
08/24/01	2155	847.4	1.5	15.4
08/24/01	2305	847.9	1.5	17.4
08/25/01	15	848.3	1.5	16.9
08/25/01	125	848.9	1.4	18.1
08/25/01	235	849.2	1.4	17.5
08/25/01	345	849.9	1.4	29.1
08/25/01	455	850.1	1.4	26.5
08/25/01	605	850.4	1.4	28.8
08/25/01	715	850.9	1.4	27.1
08/25/01	825	852.7	1.5	45.9
08/25/01	935	852.2	1.5	112.0
08/25/01	1045	851.8	1.5	106.9
08/25/01	1155	851.4	1.5	119.8
08/25/01	1305	850.7	1.5	65.8
08/25/01	1415	850.0	1.5	49.2
08/25/01	1525	850.4	1.5	47.7
08/25/01	1635	848.4	1.5	36.1
08/25/01	1745	847.9	1.5	31.8
08/25/01	1855	847.8	1.5	29.1
08/25/01	2005	847.5	1.5	45.7
08/25/01	2115	847.9	1.5	33.0

Pit 10 Data				
Date	Time	Press (mbar)	Q_{swp} (L/min)	ΔC_f (ppm)
08/25/01	2225	848.2	1.5	25.8
08/25/01	2335	848.5	1.5	26.0
08/25/01	45	848.5	1.5	24.4
08/25/01	155	849.0	1.4	25.4
08/25/01	305	849.2	1.4	29.7
08/25/01	415	849.6	1.4	27.1
08/25/01	525	850.0	1.4	28.3
08/25/01	635	850.3	1.4	27.2
08/25/01	745	850.1	1.5	34.3
08/25/01	855	851.1	1.5	79.6
08/25/01	1005	851.5	1.5	113.1
08/25/01	1115	850.7	1.5	109.0
08/25/01	1225	850.3	1.5	114.2
08/25/01	1335	849.3	1.5	111.7
08/25/01	1445	848.2	1.5	103.0
08/25/01	1555	848.0	1.5	84.1
08/25/01	1705	847.5	1.5	65.0
08/25/01	1815	847.2	1.5	68.9
08/25/01	1925	846.8	1.5	55.3
08/25/01	2035	847.0	1.5	53.5
08/25/01	2145	847.4	1.5	36.8
08/25/01	2255	847.3	1.5	35.9
08/26/01	5	847.4	1.5	32.2
08/26/01	115	847.8	1.5	30.3
08/26/01	225	848.1	1.4	32.0
08/26/01	335	848.3	1.4	33.1
08/26/01	445	848.3	1.4	31.1
08/26/01	555	848.9	1.4	33.1
08/26/01	705	848.8	1.4	36.0
08/26/01	815	849.2	1.5	49.7
08/26/01	925	848.8	1.5	70.1
08/26/01	1035	848.9	1.5	111.6
08/26/01	1145	849.2	1.5	147.6
08/26/01	1255	848.6	1.5	109.4
08/26/01	1405	847.9	1.5	146.8
08/26/01	1515	848.0	1.5	103.3
08/26/01	1625	846.2	1.5	120.0
08/26/01	1735	846.1	1.5	99.2
08/26/01	1845	845.5	1.5	80.4
08/26/01	1955	845.2	1.5	46.3
08/26/01	2105	845.6	1.5	42.6
08/26/01	2215	845.8	1.5	38.2
08/26/01	2325	845.7	1.5	30.1
08/27/01	35	845.6	1.5	32.8
08/27/01	145	845.7	1.5	41.6
08/27/01	255	845.7	1.4	40.3
08/27/01	405	845.8	1.4	40.0
08/27/01	515	846.0	1.4	41.8
08/27/01	625	846.4	1.4	43.7
08/27/01	735	846.3	1.5	48.3
08/27/01	845	846.8	1.5	38.6
08/27/01	955	846.8	1.5	61.5
08/27/01	1105	845.8	1.5	90.1
08/27/01	1215	845.9	1.5	83.8
08/27/01	1325	845.2	1.5	66.0
08/27/01	1435	844.6	1.5	69.9

Pit 10 Data				
Date	Time	Press (mbar)	Q_{swp} (L/min)	ΔC_f (ppm)
08/27/01	1545	843.2	1.5	60.9
08/27/01	1655	842.2	1.5	56.3
08/27/01	1805	841.9	1.5	39.1
08/27/01	1915	841.5	1.5	32.3
08/27/01	2025	841.7	1.5	37.0
08/27/01	2135	842.2	1.5	58.7
08/27/01	2245	842.2	1.5	36.1
08/27/01	2355	842.4	1.5	44.3
08/28/01	105	842.9	1.5	52.0
08/28/01	215	843.2	1.4	49.8
08/28/01	325	843.3	1.4	42.2
08/28/01	435	844.1	1.4	45.1
08/28/01	545	844.1	1.4	50.7
08/28/01	655	844.8	1.4	46.2
08/28/01	805	844.5	1.5	49.9
08/28/01	915	845.6	1.5	89.4
08/28/01	1025	844.9	1.5	136.7
08/28/01	1135	845.4	1.5	99.4
08/28/01	1245	843.9	1.5	95.4
08/28/01	1355	844.2	1.5	123.9
08/28/01	1505	842.9	1.5	152.3

Pit 5 Data				
Date	Time	Press (mbar)	Q_{swp} (L/min)	ΔC_f (ppm)
9/13/01	726	848.7	1.4	136.9
9/13/01	836	849.1	1.4	100.7
9/13/01	946	849.4	1.4	101.6
9/13/01	1056	848.9	1.5	90.0
9/13/01	1206	848.2	1.5	105.4
9/13/01	1316	848.3	1.5	119.9
9/13/01	1426	847.9	1.5	133.4
9/13/01	1536	845.8	1.5	116.2
9/13/01	1646	845.7	1.5	131.3
9/13/01	1756	848.8	1.5	85.4
9/13/01	1906	847.4	1.4	112.6
9/13/01	2016	847.7	1.4	158.5
9/13/01	2126	849.0	1.4	152.6
9/13/01	2236	849.5	1.4	154.4
9/13/01	2346	849.6	1.4	151.8
9/14/01	56	849.8	1.4	150.0
9/14/01	206	850.0	1.4	151.2
9/14/01	316	850.2	1.3	144.5
9/14/01	426	850.0	1.3	141.3
9/14/01	536	850.6	1.3	148.5
9/14/01	646	850.6	1.3	141.9
9/14/01	756	851.2	1.3	134.0
9/14/01	906	851.2	1.4	94.0
9/14/01	1016	851.5	1.5	117.9
9/14/01	1126	851.2	1.5	155.4
9/14/01	1236	851.0	1.5	175.0
9/14/01	1346	851.0	1.5	193.3
9/14/01	1456	850.4	1.5	224.2
9/14/01	1606	849.5	1.5	216.6
9/14/01	1716	849.1	1.5	212.2
9/14/01	1826	848.7	1.5	183.5
9/14/01	1936	848.7	1.5	178.5
9/14/01	2046	849.0	1.5	184.3
9/14/01	2156	849.8	1.5	157.6
9/14/01	2306	850.5	1.5	137.6
9/15/01	16	850.5	1.5	143.7
9/15/01	126	850.2	1.4	152.9
9/15/01	236	850.1	1.4	145.9
9/15/01	346	849.7	1.4	140.0
9/15/01	456	849.8	1.4	131.3
9/15/01	606	850.0	1.4	132.8
9/15/01	716	850.2	1.4	119.7
9/15/01	826	850.3	1.4	91.6
9/15/01	936	850.3	1.5	75.1
9/15/01	1046	850.0	1.5	93.0
9/15/01	1156	849.8	1.5	127.7
9/15/01	1306	848.9	1.5	139.6
9/15/01	1416	847.5	1.5	162.1
9/15/01	1526	847.0	1.5	182.2
9/15/01	1636	845.9	1.5	177.6
9/15/01	1746	845.4	1.5	172.9
9/15/01	1856	845.5	1.5	167.6
9/15/01	2006	846.3	1.5	110.7
9/15/01	2116	845.7	1.5	146.3

Pit 5 Data				
Date	Time	Press (mbar)	Q_{swp} (L/min)	ΔC_f (ppm)
9/15/01	2226	845.7	1.5	135.2
9/15/01	2336	846.0	1.5	95.2
9/16/01	46	845.9	1.5	131.2
9/16/01	156	845.6	1.4	104.2
9/16/01	306	845.8	1.4	128.4
9/16/01	416	845.5	1.4	124.5
9/16/01	526	845.9	1.4	129.2
9/16/01	636	845.9	1.4	120.2
9/16/01	746	846.3	1.4	109.3
9/16/01	856	847.0	1.5	60.2
9/16/01	1006	846.7	1.5	69.6
9/16/01	1116	847.0	1.5	92.3
9/16/01	1226	846.4	1.5	109.0
9/16/01	1336	845.9	1.5	107.2
9/16/01	1446	844.8	1.5	122.8
9/16/01	1556	843.8	1.5	24.5
9/16/01	1706	845.1	1.5	20.9
9/16/01	1816	845.7	1.5	17.7
9/16/01	1926	845.8	1.5	20.0
9/16/01	2036	846.9	1.5	17.6
9/16/01	2146	846.6	1.5	20.6
9/16/01	2256	846.6	1.5	18.4
9/17/01	6	847.0	1.4	18.3
9/17/01	116	846.7	1.4	22.2
9/17/01	226	846.7	1.4	21.3
9/17/01	336	847.0	1.4	13.6
9/17/01	446	846.8	1.4	19.5
9/17/01	556	847.2	1.4	20.8
9/17/01	706	847.5	1.4	18.1
9/17/01	816	848.3	1.4	25.6
9/17/01	926	848.2	1.4	19.2
9/17/01	1036	848.6	1.5	25.8
9/17/01	1146	848.5	1.5	25.6
9/17/01	1256	847.7	1.5	20.7
9/17/01	1406	847.3	1.5	87.5
9/17/01	1516	846.5	1.5	124.4
9/17/01	1626	846.7	1.5	107.6
9/17/01	1736	846.8	1.5	118.5
9/17/01	1846	846.7	1.5	120.6
9/17/01	1956	846.9	1.5	128.5
9/17/01	2106	847.3	1.5	126.9
9/17/01	2216	847.6	1.5	115.0
9/17/01	2326	847.8	1.4	116.9
9/18/01	36	847.7	1.4	107.5
9/18/01	146	847.5	1.4	106.7
9/18/01	256	848.2	1.4	100.0
9/18/01	406	848.3	1.4	96.7
9/18/01	516	848.3	1.4	94.6
9/18/01	626	848.6	1.4	92.9
9/18/01	736	848.8	1.4	85.0
9/18/01	846	848.8	1.4	37.9
9/18/01	956	849.0	1.5	33.6
9/18/01	1106	849.0	1.5	53.6
9/18/01	1216	848.9	1.5	77.2

Pit 5 Data				
Date	Time	Press (mbar)	Q_{swp} (L/min)	ΔC_f (ppm)
9/18/01	1326	847.7	1.5	85.3
9/18/01	1436	846.9	1.5	102.4
9/18/01	1546	846.1	1.5	100.8
9/18/01	1656	845.9	1.5	105.4
9/18/01	1806	845.5	1.5	82.8
9/18/01	1916	845.5	1.5	129.2
9/18/01	2026	845.4	1.5	120.4
9/18/01	2136	845.7	1.5	126.3
9/18/01	2246	845.6	1.5	107.3
9/18/01	2356	845.5	1.4	119.7
9/19/01	106	845.7	1.4	81.9
9/19/01	216	845.7	1.4	111.0
9/19/01	326	845.9	1.4	99.5
9/19/01	436	845.7	1.4	108.0
9/19/01	546	845.6	1.4	103.1
9/19/01	656	846.0	1.4	94.3
9/19/01	806	846.0	1.4	90.2
9/19/01	916	846.3	1.5	49.9
9/19/01	1026	845.9	1.5	38.1
9/19/01	1136	845.7	1.5	68.0
9/19/01	1246	844.4	1.5	67.5
9/19/01	1356	844.9	1.5	76.0
9/19/01	1506	844.2	1.5	90.7
9/19/01	1616	843.7	1.5	92.3
9/19/01	1726	843.4	1.5	96.0
9/19/01	1836	843.8	1.5	91.3
9/19/01	1946	844.4	1.5	106.9
9/19/01	2056	845.3	1.5	130.9
9/19/01	2206	845.9	1.5	128.5
9/19/01	2316	846.0	1.4	109.4
9/20/01	26	846.8	1.4	69.2
9/20/01	136	847.3	1.4	78.0
9/20/01	246	848.0	1.4	95.6
9/20/01	356	848.2	1.4	97.2
9/20/01	506	848.3	1.4	96.4
9/20/01	616	849.2	1.4	88.1
9/20/01	726	849.7	1.4	84.4
9/20/01	836	850.2	1.4	31.5
9/20/01	946	850.3	1.5	20.4
9/20/01	1056	850.8	1.5	41.4
9/20/01	1206	851.0	1.5	61.6
9/20/01	1316	849.9	1.5	69.4
9/20/01	1426	849.3	1.5	77.8
9/20/01	1536	848.8	1.5	81.7
9/20/01	1646	847.3	1.5	94.0
9/20/01	1756	847.4	1.5	91.7
9/20/01	1906	847.5	1.5	92.5
9/20/01	2016	847.4	1.5	122.6
9/20/01	2126	847.5	1.5	106.0
9/20/01	2236	848.1	1.5	112.7
9/20/01	2346	848.9	1.4	100.0
9/21/01	56	849.0	1.4	104.2
9/21/01	206	849.1	1.4	104.0
9/21/01	316	849.2	1.4	95.9

Pit 5 Data				
Date	Time	Press (mbar)	Q_{swp} (L/min)	ΔC_f (ppm)
9/21/01	426	849.1	1.4	96.6
9/21/01	536	849.1	1.4	96.7
9/21/01	646	849.3	1.4	88.5
9/21/01	756	849.7	1.4	77.7
9/21/01	906	850.7	1.5	17.8
9/21/01	1016	849.7	1.5	23.6
9/21/01	1126	849.4	1.5	49.1
9/21/01	1236	848.9	1.5	65.2
9/21/01	1346	847.3	1.5	83.1
9/21/01	1456	846.2	1.5	81.0
9/21/01	1606	845.7	1.5	87.2
9/21/01	1716	846.5	1.5	91.0
9/21/01	1826	846.1	1.5	84.3
9/21/01	1936	846.4	1.5	95.9
9/21/01	2046	846.9	1.5	114.5
9/21/01	2156	847.7	1.5	131.6
9/21/01	2306	847.8	1.5	114.8
9/22/01	16	848.9	1.4	95.8
9/22/01	126	849.1	1.4	87.2
9/22/01	236	849.8	1.4	95.2
9/22/01	346	850.3	1.4	97.5
9/22/01	456	850.6	1.4	92.6
9/22/01	606	851.1	1.4	90.7
9/22/01	716	851.5	1.4	87.7
9/22/01	826	852.0	1.4	48.7
9/22/01	936	851.9	1.5	14.3
9/22/01	1046	852.3	1.5	32.8
9/22/01	1156	852.4	1.5	57.9
9/22/01	1306	852.4	1.5	68.4
9/22/01	1416	851.4	1.5	73.9
9/22/01	1526	850.3	1.5	86.6
9/22/01	1636	850.7	1.5	93.2
9/22/01	1746	849.9	1.5	98.5
9/22/01	1856	849.7	1.5	93.9
9/22/01	2006	849.9	1.5	123.5
9/22/01	2116	850.3	1.5	99.5
9/22/01	2226	850.8	1.5	103.6
9/22/01	2336	851.1	1.5	104.4
9/23/01	46	851.3	1.4	94.7
9/23/01	156	851.6	1.4	93.2
9/23/01	306	851.4	1.4	90.3
9/23/01	416	851.6	1.4	89.0
9/23/01	526	851.5	1.4	80.7
9/23/01	636	852.0	1.4	83.4
9/23/01	746	852.6	1.4	76.5
9/23/01	856	853.8	1.5	3.7
9/23/01	1006	852.6	1.5	21.0
9/23/01	1116	852.6	1.5	35.6
9/23/01	1226	852.2	1.5	50.2
9/23/01	1336	851.2	1.5	67.3
9/23/01	1446	850.4	1.5	90.0
9/23/01	1556	849.2	1.5	93.6
9/23/01	1706	849.0	1.5	101.2
9/23/01	1816	848.7	1.5	109.3

Pit 5 Data				
Date	Time	Press (mbar)	Q_{swp} (L/min)	ΔC_f (ppm)
9/23/01	1926	848.5	1.5	122.4
9/23/01	2036	848.7	1.5	126.2
9/23/01	2146	849.2	1.5	119.9
9/23/01	2256	849.5	1.5	113.1
9/24/01	6	849.5	1.5	106.6
9/24/01	116	849.8	1.4	97.1
9/24/01	226	850.5	1.4	99.1
9/24/01	336	850.3	1.4	90.0
9/24/01	446	850.9	1.4	86.7
9/24/01	556	851.0	1.4	86.8
9/24/01	706	851.5	1.4	87.6
9/24/01	816	851.8	1.4	57.9
9/24/01	926	852.3	1.5	16.7
9/24/01	1036	852.4	1.5	25.7
9/24/01	1146	851.2	1.5	38.2
9/24/01	1256	851.7	1.5	60.6
9/24/01	1406	850.9	1.5	75.3
9/24/01	1516	849.5	1.5	76.7
9/24/01	1626	848.9	1.5	75.7
9/24/01	1736	848.5	1.5	88.1
9/24/01	1846	848.2	1.5	99.4
9/24/01	1956	848.1	1.5	133.2
9/24/01	2106	848.6	1.5	125.4
9/24/01	2216	848.6	1.5	106.0
9/24/01	2326	848.7	1.5	111.5
9/25/01	36	848.6	1.5	116.3
9/25/01	146	849.0	1.4	107.0
9/25/01	256	848.8	1.4	106.2
9/25/01	406	848.4	1.4	105.8
9/25/01	516	848.1	1.4	106.5
9/25/01	626	848.4	1.4	102.4
9/25/01	736	848.2	1.4	102.5
9/25/01	846	848.3	1.4	59.3
9/25/01	956	848.1	1.5	40.1
9/25/01	1106	847.6	1.5	39.9
9/25/01	1216	845.6	1.5	47.5
9/25/01	1326	844.4	1.5	64.1
9/25/01	1436	845.6	1.5	65.5
9/25/01	1546	843.1	1.5	87.7
9/25/01	1656	841.4	1.5	81.3
9/25/01	1806	842.3	1.5	90.4
9/25/01	1916	843.6	1.5	118.8
9/25/01	2026	843.8	1.5	86.9
9/25/01	2136	844.5	1.5	85.6
9/25/01	2246	844.4	1.5	72.4
9/25/01	2356	844.5	1.5	73.5
9/26/01	106	845.2	1.4	80.5
9/26/01	216	845.2	1.4	68.8
9/26/01	326	845.6	1.4	74.1
9/26/01	436	845.9	1.4	72.4
9/26/01	546	846.4	1.4	69.6
9/26/01	656	846.9	1.4	62.0
9/26/01	806	847.2	1.4	58.9
9/26/01	916	847.6	1.5	48.7

Pit 5 Data				
Date	Time	Press (mbar)	Q_{swp} (L/min)	ΔC_f (ppm)
9/26/01	1026	848.2	1.5	56.7
9/26/01	1136	848.2	1.5	60.8
9/26/01	1246	848.0	1.5	75.1
9/26/01	1356	847.7	1.5	82.9
9/26/01	1506	847.1	1.5	95.1
9/26/01	1616	847.0	1.5	89.7
9/26/01	1726	846.9	1.5	103.0
9/26/01	1836	847.0	1.5	98.7
9/26/01	1946	846.8	1.5	137.2
9/26/01	2056	847.1	1.5	121.4
9/26/01	2206	847.3	1.5	114.3
9/26/01	2316	847.4	1.4	121.4
9/27/01	26	847.5	1.4	119.5
9/27/01	136	847.5	1.4	113.5
9/27/01	246	847.9	1.4	107.0
9/27/01	356	847.6	1.4	107.8
9/27/01	506	847.8	1.4	101.3
9/27/01	616	847.9	1.4	103.1
9/27/01	726	847.8	1.4	96.1

Pit 4 Data				
Date	Time	Press (mbar)	Q_{swp} (L/min)	ΔC_f (ppm)
10/3/01	26	845.0	1.4	17.4
10/3/01	136	845.3	1.4	19.5
10/3/01	246	845.6	1.4	14.6
10/3/01	356	845.3	1.4	15.7
10/3/01	506	845.5	1.3	19.8
10/3/01	616	845.8	1.3	20.4
10/3/01	726	846.0	1.3	19.8
10/3/01	836	846.7	1.4	22.6
10/3/01	946	846.8	1.5	39.0
10/3/01	1056	846.6	1.5	36.8
10/3/01	1206	846.0	1.5	33.2
10/3/01	1316	847.3	1.5	47.9
10/3/01	1426	846.6	1.5	72.3
10/3/01	1536	846.0	1.5	67.9
10/3/01	1646	846.4	1.5	39.5
10/3/01	1756	847.2	1.5	33.5
10/3/01	1906	848.1	1.5	30.8
10/3/01	2016	849.4	1.4	23.3
10/3/01	2126	850.9	1.4	20.8
10/3/01	2236	851.1	1.4	20.6
10/3/01	2346	851.9	1.4	24.3
10/4/01	56	852.2	1.3	17.4
10/4/01	206	851.9	1.3	23.4
10/4/01	316	852.2	1.3	20.5
10/4/01	426	851.7	1.3	18.4
10/4/01	536	851.6	1.3	18.0
10/4/01	646	851.4	1.3	12.7
10/4/01	756	851.1	1.2	15.2
10/4/01	906	851.4	1.4	21.0
10/4/01	1016	850.9	1.4	28.4
10/4/01	1126	850.5	1.4	25.5
10/4/01	1236	849.8	1.5	25.8
10/4/01	1346	849.3	1.5	47.7
10/4/01	1456	848.1	1.4	65.0
10/4/01	1606	848.0	1.5	66.9
10/4/01	1716	847.2	1.5	61.3
10/4/01	1826	846.8	1.5	36.0
10/4/01	1936	846.7	1.5	22.6
10/4/01	2046	847.0	1.4	16.8
10/4/01	2156	847.4	1.4	15.9
10/4/01	2306	847.6	1.4	12.1
10/5/01	16	847.7	1.3	11.7
10/5/01	126	847.7	1.3	11.4
10/5/01	236	847.5	1.3	11.9
10/5/01	346	847.5	1.3	5.6
10/5/01	456	847.4	1.2	10.2
10/5/01	606	847.5	1.2	12.9
10/5/01	716	847.6	1.2	9.9
10/5/01	826	847.8	1.3	14.2
10/5/01	936	847.9	1.4	25.5
10/5/01	1046	847.4	1.5	33.4
10/5/01	1156	847.6	1.4	28.7
10/5/01	1306	847.2	1.5	57.1
10/5/01	1416	845.9	1.5	71.1

Pit 4 Data				
Date	Time	Press (mbar)	Q_{swp} (L/min)	ΔC_f (ppm)
10/5/01	1526	845.0	1.5	51.1
10/5/01	1636	844.3	1.5	34.2
10/5/01	1746	843.4	1.5	26.2
10/5/01	1856	843.8	1.5	24.0
10/5/01	2006	844.1	1.4	17.8
10/5/01	2116	843.9	1.4	16.7
10/5/01	2226	844.6	1.4	19.0
10/5/01	2336	844.7	1.4	21.1
10/6/01	46	844.8	1.4	18.4
10/6/01	156	844.8	1.4	16.1
10/6/01	306	844.6	1.4	23.5
10/6/01	416	844.4	1.3	21.6
10/6/01	526	844.9	1.3	24.9
10/6/01	636	845.2	1.3	16.7
10/6/01	746	845.8	1.3	17.1
10/6/01	856	846.0	1.4	23.2
10/6/01	1006	847.2	1.5	35.1
10/6/01	1116	846.7	1.5	41.6
10/6/01	1226	846.7	1.5	21.8
10/6/01	1336	845.2	1.5	31.1
10/6/01	1446	844.0	1.5	35.7
10/6/01	1556	843.9	1.5	27.7
10/6/01	1706	842.8	1.5	21.3
10/6/01	1816	842.8	1.5	20.7
10/6/01	1926	842.9	1.4	21.1
10/6/01	2036	842.9	1.4	19.7
10/6/01	2146	843.3	1.4	18.2
10/6/01	2256	843.8	1.4	19.5
10/7/01	6	843.4	1.4	20.1
10/7/01	116	843.2	1.4	18.4
10/7/01	226	843.1	1.4	20.5
10/7/01	336	843.9	1.4	22.2
10/7/01	446	844.1	1.4	21.9
10/7/01	556	844.0	1.4	25.2
10/7/01	706	844.3	1.4	23.1
10/7/01	816	844.2	1.4	26.3
10/7/01	926	844.5	1.4	21.8
10/7/01	1036	842.6	1.5	23.6
10/7/01	1146	844.1	1.5	28.1
10/7/01	1256	843.4	1.5	28.0
10/7/01	1406	842.5	1.5	26.8
10/7/01	1516	841.5	1.5	30.2
10/7/01	1626	841.2	1.5	24.7
10/7/01	1736	840.9	1.5	24.5
10/7/01	1846	840.9	1.4	24.0
10/7/01	1956	841.3	1.4	19.0
10/7/01	2106	841.5	1.4	17.0
10/7/01	2216	841.4	1.4	13.3
10/7/01	2326	842.5	1.4	14.9
10/8/01	36	842.8	1.4	21.4
10/8/01	146	843.1	1.4	19.4
10/8/01	256	843.1	1.3	17.9
10/8/01	406	843.4	1.3	20.5
10/8/01	516	843.3	1.3	19.2

Pit 4 Data				
Date	Time	Press (mbar)	Q_{swp} (L/min)	ΔC_f (ppm)
10/8/01	626	844.2	1.3	15.1
10/8/01	736	844.8	1.3	18.9
10/8/01	846	845.8	1.3	21.3
10/8/01	956	846.9	1.4	19.2
10/8/01	1106	847.4	1.5	26.1
10/8/01	1216	847.5	1.5	21.4
10/8/01	1326	847.3	1.4	30.1
10/8/01	1436	847.2	1.5	51.6
10/8/01	1546	847.3	1.4	38.1
10/8/01	1656	848.0	1.4	25.4
10/8/01	1806	848.1	1.4	19.9
10/8/01	1916	848.6	1.4	20.0
10/8/01	2026	849.9	1.4	14.7
10/8/01	2136	850.6	1.4	17.5
10/8/01	2246	850.9	1.4	15.7
10/8/01	2356	851.1	1.3	14.1
10/9/01	106	851.2	1.3	7.3
10/9/01	216	851.7	1.3	9.1
10/9/01	326	851.8	1.3	6.2
10/9/01	436	851.9	1.2	12.1
10/9/01	546	852.1	1.2	9.9
10/9/01	656	852.2	1.2	10.1
10/9/01	806	852.1	1.2	7.6
10/9/01	916	851.9	1.4	18.5
10/9/01	1026	852.5	1.4	18.6
10/9/01	1136	852.5	1.4	21.4
10/9/01	1246	852.4	1.5	20.5
10/9/01	1356	850.6	1.4	36.9
10/9/01	1506	849.7	1.4	26.3
10/9/01	1616	849.0	1.4	22.8
10/9/01	1726	848.7	1.4	20.9
10/9/01	1836	848.2	1.4	17.9
10/9/01	1946	846.9	1.4	22.7
10/9/01	2056	846.9	1.4	20.3
10/9/01	2206	847.0	1.4	18.2
10/9/01	2316	846.7	1.4	16.4
10/10/01	26	845.9	1.3	12.2
10/10/01	136	845.0	1.3	15.5
10/10/01	246	844.8	1.3	21.4
10/10/01	356	843.7	1.3	19.0
10/10/01	506	842.5	1.3	17.6
10/10/01	616	841.6	1.3	19.7
10/10/01	726	840.9	1.3	18.6
10/10/01	836	839.9	1.3	18.5
10/10/01	946	839.2	1.3	24.2
10/10/01	1056	840.2	1.3	27.3
10/10/01	1206	840.3	1.3	31.8
10/10/01	1316	840.1	1.4	36.0
10/10/01	1426	841.5	1.4	24.5
10/10/01	1536	842.0	1.4	33.5
10/10/01	1646	842.8	1.4	37.3
10/10/01	1756	844.2	1.4	43.0
10/10/01	1906	845.2	1.4	35.9
10/10/01	2016	846.4	1.4	25.7

Pit 4 Data				
Date	Time	Press (mbar)	Q_{swp} (L/min)	ΔC_f (ppm)
10/10/01	2126	847.6	1.3	17.2
10/10/01	2236	848.6	1.3	16.6
10/10/01	2346	849.3	1.3	16.4
10/11/01	56	850.2	1.3	18.4
10/11/01	206	850.5	1.2	10.6
10/11/01	316	851.6	1.2	14.6
10/11/01	426	851.5	1.2	15.8
10/11/01	536	851.4	1.2	17.1
10/11/01	646	851.5	1.2	14.6
10/11/01	756	851.9	1.2	17.5
10/11/01	906	851.6	1.3	24.8
10/11/01	1016	852.1	1.3	19.1
10/11/01	1126	852.0	1.3	26.3
10/11/01	1236	850.6	1.4	28.2
10/11/01	1346	849.8	1.4	28.8
10/11/01	1456	848.5	1.4	30.4
10/11/01	1606	847.3	1.4	31.2
10/11/01	1716	846.6	1.4	27.4
10/11/01	1826	846.1	1.4	27.8
10/11/01	1936	845.9	1.4	28.9
10/11/01	2046	845.4	1.3	21.5
10/11/01	2156	843.8	1.3	21.5
10/11/01	2306	843.5	1.3	22.3
10/12/01	16	843.1	1.3	12.6
10/12/01	126	842.6	1.3	18.4
10/12/01	236	842.6	1.3	17.0
10/12/01	346	842.8	1.3	23.8
10/12/01	456	843.4	1.3	17.1
10/12/01	606	843.9	1.3	21.8
10/12/01	716	844.4	1.3	23.5
10/12/01	826	845.2	1.4	16.8
10/12/01	936	846.1	1.4	23.7
10/12/01	1046	846.5	1.5	24.9
10/12/01	1156	846.2	1.5	33.3
10/12/01	1306	846.3	1.5	36.7
10/12/01	1416	845.4	1.4	56.9
10/12/01	1526	845.0	1.5	82.4
10/12/01	1636	845.1	1.5	44.9
10/12/01	1746	845.5	1.5	34.5
10/12/01	1856	845.5	1.4	32.9
10/12/01	2006	845.8	1.4	27.0
10/12/01	2116	845.8	1.4	26.7
10/12/01	2226	846.2	1.4	23.3
10/12/01	2336	846.7	1.4	16.0
10/13/01	46	846.2	1.4	15.2
10/13/01	156	846.1	1.3	18.0
10/13/01	306	845.5	1.3	21.6
10/13/01	416	845.2	1.3	19.5
10/13/01	526	844.9	1.3	21.9
10/13/01	636	844.6	1.3	16.1
10/13/01	746	844.4	1.3	21.7
10/13/01	856	844.5	1.3	17.4
10/13/01	1006	844.1	1.4	23.7
10/13/01	1116	843.4	1.5	24.5

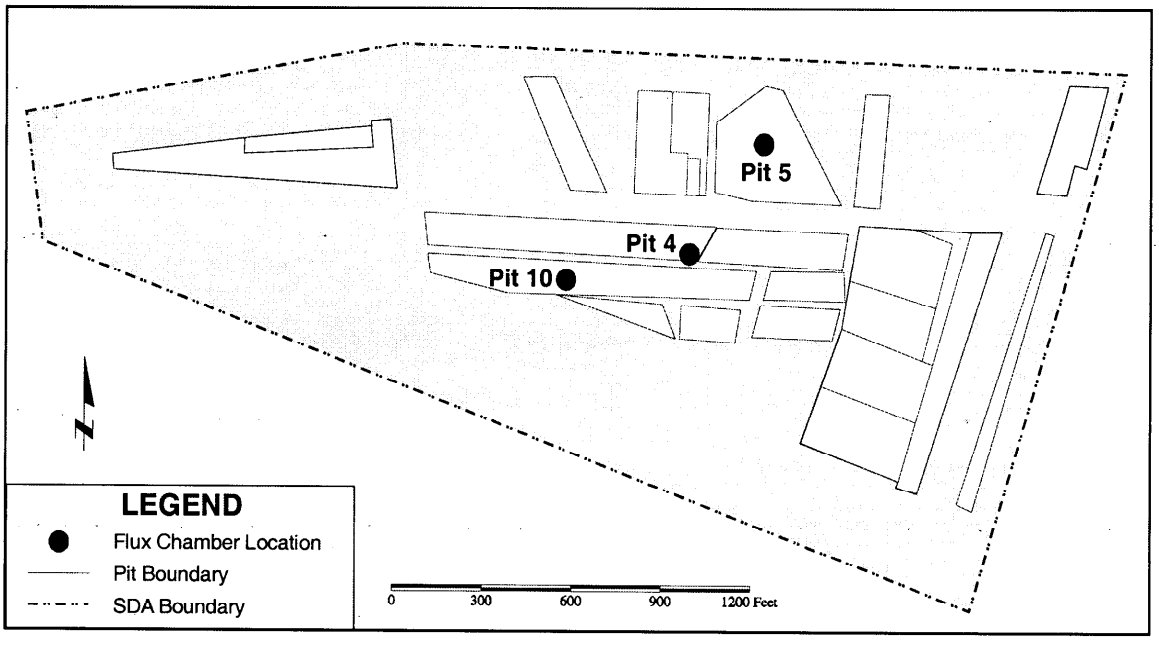
Pit 4 Data				
Date	Time	Press (mbar)	Q_{swp} (L/min)	ΔC_f (ppm)
10/13/01	1226	843.6	1.5	21.4
10/13/01	1336	842.3	1.4	26.0
10/13/01	1446	841.4	1.5	33.2
10/13/01	1556	841.9	1.4	32.7
10/13/01	1706	843.3	1.4	27.2
10/13/01	1816	845.2	1.4	26.4
10/13/01	1926	846.9	1.4	25.0
10/13/01	2036	848.5	1.4	18.7
10/13/01	2146	849.7	1.4	15.5
10/13/01	2256	850.8	1.4	16.8
10/14/01	6	852.1	1.4	17.7
10/14/01	116	852.8	1.3	16.2
10/14/01	226	853.3	1.3	19.5
10/14/01	336	854.2	1.3	17.4
10/14/01	446	854.6	1.3	11.3
10/14/01	556	855.2	1.3	9.6
10/14/01	706	855.4	1.3	9.4
10/14/01	816	855.9	1.3	9.2
10/14/01	926	856.6	1.4	12.7
10/14/01	1036	856.9	1.4	19.9
10/14/01	1146	858.0	1.4	20.3
10/14/01	1256	856.7	1.5	32.1
10/14/01	1406	855.5	1.4	68.2
10/14/01	1516	855.1	1.4	77.7
10/14/01	1626	854.7	1.5	58.9
10/14/01	1736	854.2	1.5	47.3
10/14/01	1846	854.0	1.4	38.8
10/14/01	1956	854.0	1.4	26.4
10/14/01	2106	854.1	1.4	18.2
10/14/01	2216	854.6	1.4	20.6
10/14/01	2326	854.6	1.4	13.9
10/15/01	36	854.6	1.3	15.6
10/15/01	146	854.5	1.3	15.2
10/15/01	256	854.4	1.3	13.8
10/15/01	406	853.9	1.3	7.4
10/15/01	516	853.7	1.2	10.1
10/15/01	626	853.6	1.2	11.1
10/15/01	736	853.7	1.2	5.8
10/15/01	846	853.8	1.3	14.2
10/15/01	956	853.9	1.3	24.1
10/15/01	1106	853.8	1.4	21.6
10/15/01	1216	852.1	1.4	24.8
10/15/01	1326	852.1	1.5	40.9
10/15/01	1436	850.9	1.4	74.1
10/15/01	1546	850.1	1.4	83.5
10/15/01	1656	849.2	1.5	73.8
10/15/01	1806	848.3	1.5	69.6
10/15/01	1916	847.6	1.4	39.4
10/15/01	2026	847.5	1.4	26.2
10/15/01	2136	847.5	1.4	22.8
10/15/01	2246	847.1	1.4	18.6
10/15/01	2356	846.8	1.4	16.5
10/16/01	106	846.5	1.3	16.7
10/16/01	216	846.2	1.3	10.7

Pit 4 Data				
Date	Time	Press (mbar)	Q_{swp} (L/min)	ΔC_f (ppm)
10/16/01	326	846.1	1.3	15.6
10/16/01	436	845.6	1.3	19.4
10/16/01	546	845.8	1.3	19.5
10/16/01	656	845.5	1.3	19.8
10/16/01	806	846.3	1.3	21.1
10/16/01	916	847.4	1.3	17.3
10/16/01	1026	847.9	1.3	19.4
10/16/01	1136	847.6	1.4	26.0
10/16/01	1246	847.4	1.4	24.9

Appendix B

Summary of Concentration Gradient Data

Appendix B
Summary of Concentration Gradient Data

Sample Location[a]	Sample Date	Sample Time	Sample Depth	Location ID	CO_2 Conc. (ppm)[b]
Pit 10	8/7/01	0816	30-in	P-10-30	1877.2
Pit 10	8/7/01	0817	15-in	P-10-15	928.5
Pit 10	8/15/01	1434	30-in	P-10-30	4204.0
Pit 10	8/15/01	1436	15-in	P-10-15	2482.5
Pit 10	8/21/01	1548	30-in	P-10-30	4095.3
Pit 10	8/21/01	1550	15-in	P-10-15	2129.4
Pit 10	8/29/01	1517	30-in	P-10-30	7780.6
Pit 10	8/29/01	1519	15-in	P-10-15	4815.0
Pit 5	9/6/01	0824	30-in	P-5-30	9446.7
Pit 5	9/6/01	0822	15-in	P-5-15	5112.5
Pit 5	9/12/01	1506	30-in	P-5-30	4343.9
Pit 5	9/12/01	1505	15-in	P-5-15	2249.0
Pit 5	9/19/01	1501	30-in	P-5-30	6870.1
Pit 5	9/19/01	1502	15-in	P-5-15	4679.5
Pit 5	9/27/01	0839	30-in	P-5-30	7921.8
Pit 5	9/27/01	0840	15-in	P-5-15	4346.5
Pit 4	9/27/01	0834	30-in	2P-4-30	2767.8
Pit 4	9/27/01	0836	15-in	2P-4-15	1807.2
Pit 4	10/10/01	1437	30-in	2P-4-30	2342.8
Pit 4	10/10/01	1438	15-in	2P-4-15	1300.5
Pit 4	10/15/01	1017	30-in	2P-4-30	2089.7
Pit 4	10/15/01	1018	15-in	2P-4-15	1258.0
Pit 4	10/17/01	1245	30-in	2P-4-30	2090.6
Pit 4	10/17/01	1247	15-in	2P-4-15	1148.4

a. Sample location is indicated on the figure below
b. Soil gas was analyzed in lab B-12 in the INEEL Research Center (IRC) using a gas chromatograph (GC)