



## CARLSON ENVIRONMENTAL CONSULTANTS, PC

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LANDFILL GAS, AIR PERMITTING, AND REGULATORY COMPLIANCE SERVICES

November 12, 2012

Mr. Jim Christiansen  
EP Manager  
Okeechobee Landfill Inc.  
10800 NE 128<sup>th</sup> Ave.  
Okeechobee, Florida 34972

Subject: Fourth Quarter 2012 NSPS Surface Emissions Monitoring  
Okeechobee Landfill – Okeechobee, FL

Dear Mr. Christiansen:

On October 9<sup>th</sup>, 2012, Carlson Environmental Consultants, PC (CEC) conducted surface emissions monitoring at the Okeechobee Landfill. The monitoring was performed as specified in 40 CFR 60.755 (c) and (d), and 40 CFR 60, Appendix A, Method 21. These regulations require surface monitoring around the perimeter and within the active LFG collection area where waste exceeds two years in age at final grade or five years in age at interim grades.

CEC performed the monitoring in accordance with these regulations using the route delineated by the Okeechobee Landfill site specific Surface Emission Monitoring Plan. A Thermo Electron TVA-1000B Flame Ionization Detector (FID) was used to monitor the emission level of volatile organic carbon's (VOC's) as methane. A total of 515 points within the landfill and around the perimeter were monitored (see Table 1). The monitoring route is displayed in Figure 1.

One (1) exceedance point was detected on October 9<sup>th</sup>, 2012. The location was flagged with surveyor flags and designated as point 432. A tabular listing of all monitoring points, date, and methane concentrations are attached. Tables 1-3 are provided as records of the on-site FID calibration.

Per 40 CFR 60.755, Landfill personnel repaired the exceedance location through the addition of soil cover material and gas well adjustments in the area. CEC re-monitored the exceedance location (within ten days of the monitoring event) on October 16<sup>th</sup>, 2012. Point 432 was measured to have methane emissions below the 500 ppm threshold.

Per 40 CFR 60.755, CEC re-monitored the location (within approximately one month of the initial monitoring event) on November 8<sup>th</sup>, 2012. Point 432 was measured to have methane emissions below the 500 ppm threshold. The re-monitoring data is presented in the attached data. Calibration log sheets for the re-monitoring events are provided as Tables 1-3 for October 16<sup>th</sup> and November 8<sup>th</sup>. The Certificates of Analysis for the calibration gases used to calibrate the FID are provided after the calibration logs. No further surface emission monitoring is required until First Quarter of 2013.

CEC appreciates this opportunity to provide LFG monitoring services to Okeechobee Landfill Inc. Please feel free to give me a call at (863) 634-7185 if you have any questions or require additional information.

Sincerely,

A handwritten signature in black ink, appearing to read "Seth Nunes", with a long horizontal flourish extending to the right.

Seth Nunes, P.E.  
Carlson Environmental Consultants, PC

cc: Craig Pelton, OLI  
Tony Bishop, OLI

Okeechobee Landfill  
 NSPS Surface Emissions Monitoring Data  
 Fourth Quarter 2012

Date	Time (Hr:Min:Sec)	Monitoring Tag	FID Concentration	Notes
9-Oct-12	10:57:12	1	14.09 PPM	OK
9-Oct-12	10:58:03	2	29.48 PPM	OK
9-Oct-12	10:59:09	3	30.21 PPM	OK
9-Oct-12	10:59:51	4	27.60 PPM	OK
9-Oct-12	11:01:09	5	20.63 PPM	OK
9-Oct-12	11:01:56	6	39.77 PPM	OK
9-Oct-12	11:02:35	7	37.76 PPM	OK
9-Oct-12	11:03:35	8	6.62 PPM	OK
9-Oct-12	11:04:20	9	21.83 PPM	OK
9-Oct-12	11:05:03	10	20.39 PPM	OK
9-Oct-12	11:05:45	11	15.51 PPM	OK
9-Oct-12	11:06:19	12	9.40 PPM	OK
9-Oct-12	11:06:52	13	12.31 PPM	OK
9-Oct-12	11:07:16	14	7.68 PPM	OK
9-Oct-12	11:08:21	15	3.56 PPM	OK
9-Oct-12	11:09:41	16	3.03 PPM	OK
9-Oct-12	11:10:26	17	2.81 PPM	OK
9-Oct-12	11:11:09	18	4.74 PPM	OK
9-Oct-12	11:12:13	19	3.17 PPM	OK
9-Oct-12	11:13:00	20	2.90 PPM	OK
9-Oct-12	11:13:20	21	4.85 PPM	OK
9-Oct-12	11:13:39	22	2.80 PPM	OK
9-Oct-12	11:13:59	23	3.33 PPM	OK
9-Oct-12	11:14:19	24	2.68 PPM	OK
9-Oct-12	11:14:39	25	2.92 PPM	OK
9-Oct-12	11:15:03	26	4.20 PPM	OK
9-Oct-12	11:15:24	27	3.54 PPM	OK
9-Oct-12	11:15:45	28	2.70 PPM	OK
9-Oct-12	11:16:05	29	2.06 PPM	OK
9-Oct-12	11:16:25	30	2.01 PPM	OK
9-Oct-12	11:16:44	31	1.94 PPM	OK
9-Oct-12	11:17:04	32	2.38 PPM	OK
9-Oct-12	11:17:25	33	1.84 PPM	OK
9-Oct-12	11:17:43	34	2.14 PPM	OK
9-Oct-12	11:18:03	35	2.66 PPM	OK
9-Oct-12	11:18:22	36	3.45 PPM	OK
9-Oct-12	11:18:42	37	2.37 PPM	OK
9-Oct-12	11:19:55	38	2.30 PPM	OK
9-Oct-12	11:21:05	39	2.56 PPM	OK
9-Oct-12	11:21:38	40	2.48 PPM	OK
9-Oct-12	11:22:21	41	2.63 PPM	OK
9-Oct-12	11:23:14	42	2.11 PPM	OK
9-Oct-12	11:23:47	43	2.32 PPM	OK
9-Oct-12	11:24:27	44	2.26 PPM	OK
9-Oct-12	11:24:46	45	2.46 PPM	OK
9-Oct-12	11:25:06	46	2.62 PPM	OK
9-Oct-12	11:25:25	47	2.38 PPM	OK
9-Oct-12	11:25:45	48	3.26 PPM	OK
9-Oct-12	11:26:03	49	2.97 PPM	OK
9-Oct-12	11:26:22	50	3.55 PPM	OK
9-Oct-12	11:26:43	51	2.82 PPM	OK
9-Oct-12	11:27:03	52	2.75 PPM	OK
9-Oct-12	11:27:58	53	2.83 PPM	OK
9-Oct-12	11:28:24	54	2.62 PPM	OK
9-Oct-12	11:28:50	55	2.40 PPM	OK

Okeechobee Landfill  
 NSPS Surface Emissions Monitoring Data  
 Fourth Quarter 2012

Date	Time (Hr:Min:Sec)	Monitoring Tag	FID Concentration	Notes
9-Oct-12	11:29:10	56	3.03 PPM	OK
9-Oct-12	11:29:29	57	2.74 PPM	OK
9-Oct-12	11:29:55	58	2.85 PPM	OK
9-Oct-12	11:30:14	59	2.99 PPM	OK
9-Oct-12	11:30:34	60	2.51 PPM	OK
9-Oct-12	11:30:53	61	3.17 PPM	OK
9-Oct-12	11:31:14	62	3.83 PPM	OK
9-Oct-12	11:31:34	63	2.58 PPM	OK
9-Oct-12	11:31:52	64	2.77 PPM	OK
9-Oct-12	11:32:14	65	2.97 PPM	OK
9-Oct-12	11:32:33	66	2.77 PPM	OK
9-Oct-12	11:32:50	67	2.39 PPM	OK
9-Oct-12	11:33:10	68	2.39 PPM	OK
9-Oct-12	11:33:29	69	2.20 PPM	OK
9-Oct-12	11:33:48	70	2.19 PPM	OK
9-Oct-12	11:34:09	71	2.10 PPM	OK
9-Oct-12	11:34:28	72	2.79 PPM	OK
9-Oct-12	11:34:47	73	9.88 PPM	OK
9-Oct-12	11:35:06	74	1.96 PPM	OK
9-Oct-12	11:35:25	75	2.09 PPM	OK
9-Oct-12	11:35:45	76	2.33 PPM	OK
9-Oct-12	11:36:04	77	3.03 PPM	OK
9-Oct-12	11:36:24	78	2.45 PPM	OK
9-Oct-12	11:36:43	79	2.56 PPM	OK
9-Oct-12	11:37:04	80	2.44 PPM	OK
9-Oct-12	11:37:24	81	3.72 PPM	OK
9-Oct-12	11:37:44	82	2.88 PPM	OK
9-Oct-12	11:38:03	83	5.24 PPM	OK
9-Oct-12	11:38:23	84	3.57 PPM	OK
9-Oct-12	11:38:44	85	12.00 PPM	OK
9-Oct-12	11:39:04	86	31.24 PPM	OK
9-Oct-12	11:39:23	87	2.23 PPM	OK
9-Oct-12	11:39:43	88	2.56 PPM	OK
9-Oct-12	11:40:02	89	2.25 PPM	OK
9-Oct-12	11:40:21	90	1.48 PPM	OK
9-Oct-12	11:40:41	91	1.50 PPM	OK
9-Oct-12	11:41:00	92	2.22 PPM	OK
9-Oct-12	11:45:17	93	2.21 PPM	OK
9-Oct-12	11:45:36	94	2.16 PPM	OK
9-Oct-12	11:45:55	95	1.88 PPM	OK
9-Oct-12	11:46:14	96	2.71 PPM	OK
9-Oct-12	11:46:34	97	2.28 PPM	OK
9-Oct-12	11:46:53	98	5.27 PPM	OK
9-Oct-12	11:47:12	99	3.12 PPM	OK
9-Oct-12	11:47:32	100	3.81 PPM	OK
9-Oct-12	11:47:51	101	3.26 PPM	OK
9-Oct-12	11:48:11	102	3.15 PPM	OK
9-Oct-12	11:48:32	103	2.26 PPM	OK
9-Oct-12	11:48:52	104	3.16 PPM	OK
9-Oct-12	11:49:12	105	2.85 PPM	OK
9-Oct-12	11:49:31	106	2.97 PPM	OK
9-Oct-12	11:49:50	107	2.97 PPM	OK
9-Oct-12	11:50:09	108	3.24 PPM	OK
9-Oct-12	11:50:29	109	3.31 PPM	OK
9-Oct-12	11:50:47	110	2.85 PPM	OK

Okeechobee Landfill  
 NSPS Surface Emissions Monitoring Data  
 Fourth Quarter 2012

Date	Time (Hr:Min:Sec)	Monitoring Tag	FID Concentration	Notes
9-Oct-12	11:51:07	111	3.07 PPM	OK
9-Oct-12	11:51:25	112	3.20 PPM	OK
9-Oct-12	11:51:44	113	3.11 PPM	OK
9-Oct-12	11:52:03	114	2.62 PPM	OK
9-Oct-12	11:52:22	115	2.71 PPM	OK
9-Oct-12	11:52:41	116	21.70 PPM	OK
9-Oct-12	11:53:00	117	2.63 PPM	OK
9-Oct-12	11:53:19	118	2.55 PPM	OK
9-Oct-12	11:53:39	119	2.62 PPM	OK
9-Oct-12	11:53:58	120	2.88 PPM	OK
9-Oct-12	11:54:51	121	2.07 PPM	OK
9-Oct-12	11:55:10	122	2.39 PPM	OK
9-Oct-12	11:55:29	123	2.62 PPM	OK
9-Oct-12	11:55:47	124	2.39 PPM	OK
9-Oct-12	11:56:06	125	2.38 PPM	OK
9-Oct-12	11:56:26	126	2.22 PPM	OK
9-Oct-12	11:56:45	127	2.39 PPM	OK
9-Oct-12	11:57:05	128	2.74 PPM	OK
9-Oct-12	11:57:23	129	2.39 PPM	OK
9-Oct-12	11:57:42	130	2.56 PPM	OK
9-Oct-12	11:58:02	131	2.70 PPM	OK
9-Oct-12	11:58:25	132	2.62 PPM	OK
9-Oct-12	11:58:45	133	2.82 PPM	OK
9-Oct-12	11:59:06	134	3.04 PPM	OK
9-Oct-12	11:59:24	135	4.29 PPM	OK
9-Oct-12	11:59:45	136	3.04 PPM	OK
9-Oct-12	12:00:05	137	1.97 PPM	OK
9-Oct-12	12:00:26	138	2.74 PPM	OK
9-Oct-12	12:00:44	139	2.62 PPM	OK
9-Oct-12	12:01:03	140	3.45 PPM	OK
9-Oct-12	12:01:22	141	2.60 PPM	OK
9-Oct-12	12:01:40	142	2.46 PPM	OK
9-Oct-12	12:02:06	143	3.00 PPM	OK
9-Oct-12	12:02:24	144	2.60 PPM	OK
9-Oct-12	12:02:44	145	3.03 PPM	OK
9-Oct-12	12:08:43	146	4.22 PPM	OK
9-Oct-12	12:09:05	147	35.23 PPM	OK
9-Oct-12	12:09:55	148	48.44 PPM	OK
9-Oct-12	12:10:17	149	18.07 PPM	OK
9-Oct-12	12:10:37	150	28.60 PPM	OK
9-Oct-12	12:10:59	151	15.16 PPM	OK
9-Oct-12	12:11:31	152	21.81 PPM	OK
9-Oct-12	12:11:55	153	12.15 PPM	OK
9-Oct-12	12:12:18	154	4.67 PPM	OK
9-Oct-12	12:12:39	155	12.19 PPM	OK
9-Oct-12	12:12:58	156	12.55 PPM	OK
9-Oct-12	12:13:20	157	22.99 PPM	OK
9-Oct-12	12:13:44	158	26.58 PPM	OK
9-Oct-12	12:14:07	159	90.45 PPM	OK
9-Oct-12	12:14:28	160	25.73 PPM	OK
9-Oct-12	12:14:48	161	54.73 PPM	OK
9-Oct-12	12:15:19	162	73.32 PPM	OK
9-Oct-12	12:15:44	163	8.28 PPM	OK
9-Oct-12	12:16:08	164	103.00 PPM	OK
9-Oct-12	12:16:46	165	105.00 PPM	OK

Okeechobee Landfill  
 NSPS Surface Emissions Monitoring Data  
 Fourth Quarter 2012

Date	Time (Hr:Min:Sec)	Monitoring Tag	FID Concentration	Notes
9-Oct-12	12:17:10	166	45.71 PPM	OK
9-Oct-12	12:17:30	167	4.35 PPM	OK
9-Oct-12	12:17:53	168	6.13 PPM	OK
9-Oct-12	12:18:15	169	4.78 PPM	OK
9-Oct-12	12:18:36	170	12.81 PPM	OK
9-Oct-12	12:18:58	171	15.24 PPM	OK
9-Oct-12	12:19:20	172	7.48 PPM	OK
9-Oct-12	12:19:41	173	4.91 PPM	OK
9-Oct-12	12:20:02	174	4.72 PPM	OK
9-Oct-12	12:20:22	175	6.27 PPM	OK
9-Oct-12	12:20:41	176	35.76 PPM	OK
9-Oct-12	12:21:02	177	3.24 PPM	OK
9-Oct-12	12:21:20	178	3.58 PPM	OK
9-Oct-12	12:21:37	179	3.05 PPM	OK
9-Oct-12	12:21:55	180	2.90 PPM	OK
9-Oct-12	12:22:14	181	3.37 PPM	OK
9-Oct-12	12:22:40	182	2.50 PPM	OK
9-Oct-12	12:23:01	183	2.69 PPM	OK
9-Oct-12	12:23:18	184	2.45 PPM	OK
9-Oct-12	12:23:37	185	3.25 PPM	OK
9-Oct-12	12:23:59	186	2.91 PPM	OK
9-Oct-12	12:24:17	187	2.54 PPM	OK
9-Oct-12	12:24:36	188	2.72 PPM	OK
9-Oct-12	12:24:57	189	2.52 PPM	OK
9-Oct-12	12:25:17	190	3.00 PPM	OK
9-Oct-12	12:25:36	191	8.42 PPM	OK
9-Oct-12	12:25:55	192	5.95 PPM	OK
9-Oct-12	12:26:13	193	2.66 PPM	OK
9-Oct-12	12:26:31	194	2.47 PPM	OK
9-Oct-12	12:26:51	195	9.30 PPM	OK
9-Oct-12	12:27:08	196	2.80 PPM	OK
9-Oct-12	12:27:27	197	3.02 PPM	OK
9-Oct-12	12:27:47	198	2.45 PPM	OK
9-Oct-12	12:28:08	199	2.29 PPM	OK
9-Oct-12	12:28:27	200	2.45 PPM	OK
9-Oct-12	12:28:46	201	2.32 PPM	OK
9-Oct-12	12:34:04	202	2.54 PPM	OK
9-Oct-12	12:34:26	203	2.05 PPM	OK
9-Oct-12	12:34:45	204	2.62 PPM	OK
9-Oct-12	12:35:04	205	2.88 PPM	OK
9-Oct-12	12:35:24	206	2.45 PPM	OK
9-Oct-12	12:35:40	207	2.44 PPM	OK
9-Oct-12	12:35:58	208	3.27 PPM	OK
9-Oct-12	12:36:16	209	3.51 PPM	OK
9-Oct-12	12:36:37	210	3.29 PPM	OK
9-Oct-12	12:36:56	211	5.86 PPM	OK
9-Oct-12	12:37:16	212	5.95 PPM	OK
9-Oct-12	12:37:36	213	3.08 PPM	OK
9-Oct-12	12:37:55	214	2.84 PPM	OK
9-Oct-12	12:38:15	215	3.49 PPM	OK
9-Oct-12	12:38:34	216	2.90 PPM	OK
9-Oct-12	12:38:53	217	2.74 PPM	OK
9-Oct-12	12:39:13	218	2.93 PPM	OK
9-Oct-12	12:39:31	219	2.33 PPM	OK
9-Oct-12	12:39:50	220	2.83 PPM	OK

Okeechobee Landfill  
 NSPS Surface Emissions Monitoring Data  
 Fourth Quarter 2012

Date	Time (Hr:Min:Sec)	Monitoring Tag	FID Concentration	Notes
9-Oct-12	12:40:11	221	3.27 PPM	OK
9-Oct-12	12:40:30	222	2.23 PPM	OK
9-Oct-12	12:40:48	223	2.33 PPM	OK
9-Oct-12	12:41:07	224	2.65 PPM	OK
9-Oct-12	12:41:26	225	2.73 PPM	OK
9-Oct-12	12:41:45	226	2.61 PPM	OK
9-Oct-12	12:42:05	227	3.08 PPM	OK
9-Oct-12	12:42:24	228	3.14 PPM	OK
9-Oct-12	12:42:43	229	2.85 PPM	OK
9-Oct-12	12:43:04	230	2.66 PPM	OK
9-Oct-12	12:43:23	231	2.89 PPM	OK
9-Oct-12	12:44:23	232	2.56 PPM	OK
9-Oct-12	12:45:17	233	2.83 PPM	OK
9-Oct-12	12:47:28	234	2.46 PPM	OK
9-Oct-12	12:48:30	235	2.97 PPM	OK
9-Oct-12	12:49:05	236	2.34 PPM	OK
9-Oct-12	12:49:23	237	2.75 PPM	OK
9-Oct-12	12:49:44	238	2.68 PPM	OK
9-Oct-12	12:51:15	239	2.62 PPM	OK
9-Oct-12	12:51:39	240	2.45 PPM	OK
9-Oct-12	12:52:00	241	3.17 PPM	OK
9-Oct-12	12:52:21	242	3.42 PPM	OK
9-Oct-12	12:52:42	243	3.20 PPM	OK
9-Oct-12	12:53:01	244	3.55 PPM	OK
9-Oct-12	12:53:20	245	2.87 PPM	OK
9-Oct-12	12:53:38	246	3.09 PPM	OK
9-Oct-12	12:53:57	247	2.48 PPM	OK
9-Oct-12	12:54:15	248	3.00 PPM	OK
9-Oct-12	12:54:34	249	3.14 PPM	OK
9-Oct-12	12:54:53	250	2.79 PPM	OK
9-Oct-12	12:55:12	251	3.16 PPM	OK
9-Oct-12	12:55:32	252	3.20 PPM	OK
9-Oct-12	12:55:48	253	3.31 PPM	OK
9-Oct-12	12:56:11	254	2.33 PPM	OK
9-Oct-12	12:56:34	255	4.20 PPM	OK
9-Oct-12	12:56:53	256	3.42 PPM	OK
9-Oct-12	12:57:13	257	3.95 PPM	OK
9-Oct-12	12:57:33	258	3.23 PPM	OK
9-Oct-12	12:58:05	259	3.17 PPM	OK
9-Oct-12	12:58:24	260	2.83 PPM	OK
9-Oct-12	12:58:44	261	2.65 PPM	OK
9-Oct-12	12:59:11	262	3.19 PPM	OK
9-Oct-12	13:00:41	263	6.86 PPM	OK
9-Oct-12	13:01:02	264	5.59 PPM	OK
9-Oct-12	13:01:22	265	3.57 PPM	OK
9-Oct-12	13:03:41	266	3.49 PPM	OK
9-Oct-12	13:04:02	267	3.04 PPM	OK
9-Oct-12	13:04:24	268	3.33 PPM	OK
9-Oct-12	13:04:44	269	3.60 PPM	OK
9-Oct-12	13:05:02	270	4.61 PPM	OK
9-Oct-12	13:05:22	271	5.23 PPM	OK
9-Oct-12	13:05:43	272	8.41 PPM	OK
9-Oct-12	13:06:03	273	3.65 PPM	OK
9-Oct-12	13:06:24	274	3.92 PPM	OK
9-Oct-12	13:06:47	275	3.33 PPM	OK

Okeechobee Landfill  
 NSPS Surface Emissions Monitoring Data  
 Fourth Quarter 2012

Date	Time (Hr:Min:Sec)	Monitoring Tag	FID Concentration	Notes
9-Oct-12	13:07:11	276	3.05 PPM	OK
9-Oct-12	13:13:42	277	3.35 PPM	OK
9-Oct-12	13:14:13	278	3.24 PPM	OK
9-Oct-12	13:14:39	279	2.92 PPM	OK
9-Oct-12	13:14:59	280	2.80 PPM	OK
9-Oct-12	13:15:19	281	3.03 PPM	OK
9-Oct-12	13:15:41	282	7.73 PPM	OK
9-Oct-12	13:16:04	283	9.51 PPM	OK
9-Oct-12	13:16:25	284	23.53 PPM	OK
9-Oct-12	13:16:49	285	5.59 PPM	OK
9-Oct-12	13:17:11	286	5.05 PPM	OK
9-Oct-12	13:17:33	287	9.62 PPM	OK
9-Oct-12	13:17:56	288	33.10 PPM	OK
9-Oct-12	13:19:06	289	14.17 PPM	OK
9-Oct-12	13:19:32	290	57.65 PPM	OK
9-Oct-12	13:20:05	291	21.06 PPM	OK
9-Oct-12	13:20:31	292	12.45 PPM	OK
9-Oct-12	13:20:57	293	24.18 PPM	OK
9-Oct-12	13:21:16	294	69.69 PPM	OK
9-Oct-12	13:21:37	295	72.16 PPM	OK
9-Oct-12	13:21:57	296	105.00 PPM	OK
9-Oct-12	13:22:17	297	82.95 PPM	OK
9-Oct-12	13:22:39	298	9.66 PPM	OK
9-Oct-12	13:23:13	299	45.37 PPM	OK
9-Oct-12	13:23:31	300	27.64 PPM	OK
9-Oct-12	13:23:51	301	40.79 PPM	OK
9-Oct-12	13:43:14	302	45.13 PPM	OK
9-Oct-12	13:43:35	303	37.17 PPM	OK
9-Oct-12	13:43:49	304	28.54 PPM	OK
9-Oct-12	13:44:51	305	30.64 PPM	OK
9-Oct-12	13:45:46	306	6.16 PPM	OK
9-Oct-12	13:46:04	307	11.19 PPM	OK
9-Oct-12	13:46:24	308	10.91 PPM	OK
9-Oct-12	13:46:44	309	8.60 PPM	OK
9-Oct-12	13:47:02	310	5.50 PPM	OK
9-Oct-12	13:47:22	311	11.35 PPM	OK
9-Oct-12	13:47:47	312	22.95 PPM	OK
9-Oct-12	13:48:07	313	10.51 PPM	OK
9-Oct-12	13:48:22	314	7.21 PPM	OK
9-Oct-12	13:48:43	315	7.00 PPM	OK
9-Oct-12	13:48:57	316	7.05 PPM	OK
9-Oct-12	13:49:20	317	10.24 PPM	OK
9-Oct-12	13:49:42	318	9.55 PPM	OK
9-Oct-12	13:50:07	319	44.81 PPM	OK
9-Oct-12	13:50:28	320	6.40 PPM	OK
9-Oct-12	13:50:52	321	13.63 PPM	OK
9-Oct-12	13:51:16	322	16.66 PPM	OK
9-Oct-12	13:51:35	323	10.92 PPM	OK
9-Oct-12	13:51:55	324	19.06 PPM	OK
9-Oct-12	13:52:16	325	3.75 PPM	OK
9-Oct-12	13:52:34	326	16.19 PPM	OK
9-Oct-12	13:52:53	327	3.50 PPM	OK
9-Oct-12	13:53:11	328	2.93 PPM	OK
9-Oct-12	13:53:30	329	4.24 PPM	OK
9-Oct-12	13:53:50	330	4.93 PPM	OK



Okeechobee Landfill  
 NSPS Surface Emissions Monitoring Data  
 Fourth Quarter 2012

Date	Time (Hr:Min:Sec)	Monitoring Tag	FID Concentration	Notes
9-Oct-12	13:54:10	331	3.19 PPM	OK
9-Oct-12	13:54:29	332	3.26 PPM	OK
9-Oct-12	13:54:50	333	4.35 PPM	OK
9-Oct-12	13:55:10	334	3.31 PPM	OK
9-Oct-12	13:55:28	335	6.35 PPM	OK
9-Oct-12	13:55:53	336	3.36 PPM	OK
9-Oct-12	13:56:15	337	3.50 PPM	OK
9-Oct-12	13:56:34	338	3.57 PPM	OK
9-Oct-12	13:56:56	339	3.20 PPM	OK
9-Oct-12	13:57:16	340	2.33 PPM	OK
9-Oct-12	13:57:35	341	2.59 PPM	OK
9-Oct-12	13:57:55	342	2.55 PPM	OK
9-Oct-12	13:58:13	343	2.66 PPM	OK
9-Oct-12	13:58:33	344	2.77 PPM	OK
9-Oct-12	13:59:06	345	2.90 PPM	OK
9-Oct-12	13:59:18	346	3.01 PPM	OK
9-Oct-12	13:59:49	347	2.65 PPM	OK
9-Oct-12	14:00:11	348	3.12 PPM	OK
9-Oct-12	14:00:30	349	3.24 PPM	OK
9-Oct-12	14:00:55	350	3.07 PPM	OK
9-Oct-12	14:01:09	351	3.08 PPM	OK
9-Oct-12	14:01:28	352	2.74 PPM	OK
9-Oct-12	14:01:48	353	3.07 PPM	OK
9-Oct-12	14:02:08	354	3.14 PPM	OK
9-Oct-12	14:02:16	355	3.13 PPM	OK
9-Oct-12	14:02:44	356	3.27 PPM	OK
9-Oct-12	14:03:04	357	3.59 PPM	OK
9-Oct-12	14:03:25	358	3.07 PPM	OK
9-Oct-12	14:03:45	359	3.28 PPM	OK
9-Oct-12	14:04:14	360	3.70 PPM	OK
9-Oct-12	14:04:37	361	3.19 PPM	OK
9-Oct-12	14:07:47	362	3.14 PPM	OK
9-Oct-12	14:08:08	363	3.10 PPM	OK
9-Oct-12	14:08:28	364	3.57 PPM	OK
9-Oct-12	14:08:48	365	3.72 PPM	OK
9-Oct-12	14:09:10	366	3.85 PPM	OK
9-Oct-12	14:09:28	367	3.41 PPM	OK
9-Oct-12	14:10:13	368	2.99 PPM	OK
9-Oct-12	14:10:35	369	3.47 PPM	OK
9-Oct-12	14:10:56	370	3.24 PPM	OK
9-Oct-12	14:11:17	371	3.43 PPM	OK
9-Oct-12	14:11:37	372	3.67 PPM	OK
9-Oct-12	14:11:56	373	3.24 PPM	OK
9-Oct-12	14:12:17	374	3.14 PPM	OK
9-Oct-12	14:12:37	375	3.86 PPM	OK
9-Oct-12	14:12:57	376	3.53 PPM	OK
9-Oct-12	14:13:17	377	3.78 PPM	OK
9-Oct-12	14:13:37	378	3.99 PPM	OK
9-Oct-12	14:13:57	379	3.05 PPM	OK
9-Oct-12	14:14:11	380	3.45 PPM	OK
9-Oct-12	14:14:29	381	3.57 PPM	OK
9-Oct-12	14:14:49	382	3.71 PPM	OK
9-Oct-12	14:15:34	383	3.48 PPM	OK
9-Oct-12	14:16:13	384	4.58 PPM	OK
9-Oct-12	14:16:35	385	3.55 PPM	OK

Okeechobee Landfill  
 NSPS Surface Emissions Monitoring Data  
 Fourth Quarter 2012

Date	Time (Hr:Min:Sec)	Monitoring Tag	FID Concentration	Notes
9-Oct-12	14:16:57	386	3.14 PPM	OK
9-Oct-12	14:17:18	387	2.99 PPM	OK
9-Oct-12	14:17:39	388	3.61 PPM	OK
9-Oct-12	14:18:01	389	3.02 PPM	OK
9-Oct-12	14:18:23	390	3.68 PPM	OK
9-Oct-12	14:18:43	391	3.94 PPM	OK
9-Oct-12	14:19:01	392	4.20 PPM	OK
9-Oct-12	14:19:21	393	4.24 PPM	OK
9-Oct-12	14:19:39	394	3.47 PPM	OK
9-Oct-12	14:19:58	395	3.47 PPM	OK
9-Oct-12	14:20:16	396	3.40 PPM	OK
9-Oct-12	14:20:35	397	3.63 PPM	OK
9-Oct-12	14:20:54	398	3.84 PPM	OK
9-Oct-12	14:21:13	399	3.21 PPM	OK
9-Oct-12	14:21:32	400	3.61 PPM	OK
9-Oct-12	14:23:24	401	4.04 PPM	OK
9-Oct-12	14:23:47	402	4.23 PPM	OK
9-Oct-12	14:24:07	403	3.72 PPM	OK
9-Oct-12	14:24:28	404	4.08 PPM	OK
9-Oct-12	14:24:47	405	3.99 PPM	OK
9-Oct-12	14:25:08	406	4.40 PPM	OK
9-Oct-12	14:25:23	407	3.98 PPM	OK
9-Oct-12	14:25:43	408	3.66 PPM	OK
9-Oct-12	14:26:03	409	4.06 PPM	OK
9-Oct-12	14:26:23	410	3.80 PPM	OK
9-Oct-12	14:27:01	411	3.30 PPM	OK
9-Oct-12	14:27:21	412	4.02 PPM	OK
9-Oct-12	14:28:24	413	3.46 PPM	OK
9-Oct-12	14:29:13	414	3.92 PPM	OK
9-Oct-12	14:29:33	415	3.51 PPM	OK
9-Oct-12	14:29:53	416	3.56 PPM	OK
9-Oct-12	14:46:36	417	12.93 PPM	OK
9-Oct-12	14:47:50	418	225.00 PPM	OK
9-Oct-12	14:48:53	419	47.25 PPM	OK
9-Oct-12	14:49:28	420	11.27 PPM	OK
9-Oct-12	14:49:49	421	29.35 PPM	OK
9-Oct-12	14:50:29	422	21.75 PPM	OK
9-Oct-12	14:50:57	423	22.51 PPM	OK
9-Oct-12	14:51:20	424	25.83 PPM	OK
9-Oct-12	14:51:43	425	14.04 PPM	OK
9-Oct-12	14:52:15	426	8.24 PPM	OK
9-Oct-12	14:52:39	427	7.63 PPM	OK
9-Oct-12	14:53:01	428	4.91 PPM	OK
9-Oct-12	14:53:49	429	5.68 PPM	OK
9-Oct-12	14:54:25	430	16.73 PPM	OK
9-Oct-12	14:55:47	431	31.84 PPM	OK
9-Oct-12	14:56:55	432	739.00 PPM	FAIL Exceedance
16-Oct-12	15:15:00	432	5.62 PPM	OK 10-day Recheck
8-Nov-12	8:50:00	432	9.60 PPM	OK 1-month Recheck
9-Oct-12	14:59:58	433	50.34 PPM	OK
9-Oct-12	15:00:24	434	221.00 PPM	OK
9-Oct-12	15:00:51	435	5.33 PPM	OK
9-Oct-12	15:01:16	436	3.41 PPM	OK
9-Oct-12	15:01:36	437	3.43 PPM	OK
9-Oct-12	15:01:56	438	3.63 PPM	OK

Okeechobee Landfill  
 NSPS Surface Emissions Monitoring Data  
 Fourth Quarter 2012

Date	Time (Hr:Min:Sec)	Monitoring Tag	FID Concentration	Notes
9-Oct-12	15:02:15	439	4.88 PPM	OK
9-Oct-12	15:02:34	440	3.66 PPM	OK
9-Oct-12	15:02:54	441	3.11 PPM	OK
9-Oct-12	15:03:13	442	3.23 PPM	OK
9-Oct-12	15:03:33	443	3.40 PPM	OK
9-Oct-12	15:03:52	444	3.67 PPM	OK
9-Oct-12	15:04:10	445	3.34 PPM	OK
9-Oct-12	15:04:31	446	3.66 PPM	OK
9-Oct-12	15:04:51	447	3.20 PPM	OK
9-Oct-12	15:05:12	448	4.16 PPM	OK
9-Oct-12	15:05:32	449	4.22 PPM	OK
9-Oct-12	15:05:52	450	4.18 PPM	OK
9-Oct-12	15:06:13	451	4.03 PPM	OK
9-Oct-12	15:06:33	452	5.73 PPM	OK
9-Oct-12	15:06:44	453	4.58 PPM	OK
9-Oct-12	15:07:01	454	4.12 PPM	OK
9-Oct-12	15:07:25	455	4.57 PPM	OK
9-Oct-12	15:07:51	456	4.08 PPM	OK
9-Oct-12	15:08:15	457	4.39 PPM	OK
9-Oct-12	15:08:37	458	4.10 PPM	OK
9-Oct-12	15:08:56	459	4.35 PPM	OK
9-Oct-12	15:09:14	460	4.60 PPM	OK
9-Oct-12	15:09:31	461	4.03 PPM	OK
9-Oct-12	15:09:48	462	4.17 PPM	OK
9-Oct-12	15:10:08	463	4.16 PPM	OK
9-Oct-12	15:10:27	464	4.01 PPM	OK
9-Oct-12	15:10:47	465	3.66 PPM	OK
9-Oct-12	15:11:05	466	3.89 PPM	OK
9-Oct-12	15:11:25	467	3.93 PPM	OK
9-Oct-12	15:11:45	468	4.65 PPM	OK
9-Oct-12	15:12:08	469	4.12 PPM	OK
9-Oct-12	15:12:28	470	3.96 PPM	OK
9-Oct-12	15:12:49	471	4.12 PPM	OK
9-Oct-12	15:13:10	472	3.83 PPM	OK
9-Oct-12	15:13:30	473	3.56 PPM	OK
9-Oct-12	15:13:50	474	4.08 PPM	OK
9-Oct-12	15:14:11	475	4.36 PPM	OK
9-Oct-12	15:14:31	476	4.28 PPM	OK
9-Oct-12	15:14:51	477	4.77 PPM	OK
9-Oct-12	15:15:11	478	3.75 PPM	OK
9-Oct-12	15:15:31	479	3.43 PPM	OK
9-Oct-12	15:15:52	480	4.34 PPM	OK
9-Oct-12	15:16:10	481	3.68 PPM	OK
9-Oct-12	15:16:28	482	4.00 PPM	OK
9-Oct-12	15:16:47	483	3.72 PPM	OK
9-Oct-12	15:17:05	484	4.09 PPM	OK
9-Oct-12	15:17:23	485	3.72 PPM	OK
9-Oct-12	15:17:42	486	3.50 PPM	OK
9-Oct-12	15:18:01	487	3.83 PPM	OK
9-Oct-12	15:18:19	488	4.28 PPM	OK
9-Oct-12	15:18:39	489	3.83 PPM	OK
9-Oct-12	15:18:58	490	4.12 PPM	OK
9-Oct-12	15:19:16	491	4.17 PPM	OK
9-Oct-12	15:19:35	492	4.18 PPM	OK
9-Oct-12	15:19:54	493	4.52 PPM	OK

Okeechobee Landfill  
NSPS Surface Emissions Monitoring Data  
Fourth Quarter 2012

Date	Time (Hr:Min:Sec)	Monitoring Tag	FID Concentration	Notes
9-Oct-12	15:20:12	494	9.52 PPM	OK
9-Oct-12	15:20:32	495	6.43 PPM	OK
9-Oct-12	15:20:52	496	3.95 PPM	OK
9-Oct-12	15:21:11	497	10.74 PPM	OK
9-Oct-12	15:21:31	498	8.65 PPM	OK
9-Oct-12	15:21:50	499	39.08 PPM	OK
9-Oct-12	15:22:09	500	16.34 PPM	OK
9-Oct-12	15:22:28	501	15.93 PPM	OK
9-Oct-12	15:22:47	502	33.17 PPM	OK
9-Oct-12	15:23:07	503	28.40 PPM	OK
9-Oct-12	15:23:27	504	21.11 PPM	OK
9-Oct-12	15:23:40	505	16.09 PPM	OK
9-Oct-12	15:23:59	506	17.45 PPM	OK
9-Oct-12	15:24:20	507	32.17 PPM	OK
9-Oct-12	15:24:37	508	16.86 PPM	OK
9-Oct-12	15:24:55	509	6.31 PPM	OK
9-Oct-12	15:25:14	510	15.83 PPM	OK
9-Oct-12	15:25:33	511	18.18 PPM	OK
9-Oct-12	15:25:51	512	30.69 PPM	OK
9-Oct-12	15:26:09	513	45.56 PPM	OK
9-Oct-12	15:26:28	514	19.90 PPM	OK
9-Oct-12	15:26:59	515	33.94 PPM	OK

**TABLE 1**  
**CALIBRATION PRECISION TEST RECORD**

LANDFILL NAME: Okeechobee Landfill

DATE: October 9, 2012

TIME: 10:15 AM  PM

INSTRUMENT MAKE: TVA MODEL: 1000 S/N: 1015942527

CALIBRATION GAS STANDARD: 510 ppm (check cal. gas certification - should be 500 ppm)

**MEASUREMENT #1:**

Meter Reading for Zero Air: 0.08 ppm (1)

Meter Reading for Calibration Gas: 506.00 ppm (2)

**MEASUREMENT #2:**

Meter Reading for Zero Air: -0.03 ppm (3)

Meter Reading for Calibration Gas: 515.00 ppm (4)

**MEASUREMENT #3:**

Meter Reading for Zero Air: 0.12 ppm (5)

Meter Reading for Calibration Gas: 509.00 ppm (6)

**CALCULATE PRECISION:**

$$\frac{[(510) - (2)] + [(510) - (4)] + [(510) - (6)]}{3} \times \frac{1}{510} \times \frac{100}{1}$$
$$= \underline{0.65\%}$$

PERFORMED BY: Matt Outlaw

**CALIBRATION GAS CERTIFICATION DATA AND EXPIRATION DATE: See attached**

**TABLE 2**  
**RESPONSE TIME TEST RECORD**

LANDFILL NAME: Okeechobee Landfill

DATE: October 9, 2012

TIME: 10:15 AM  PM

INSTRUMENT MAKE: TVA MODEL: 1000 S/N: 1015942527

**MEASUREMENT #1:**

Stabilized Reading Using Calibration Gas: 506.00 ppm

90% of the Stabilized Reading: = 455.4 ppm

Time to reach 90% of Stabilized Reading  
After Switching from Zero Air to  
Calibration Gas: 8 seconds (1)

**MEASUREMENT #2:**

Stabilized Reading Using Calibration Gas: 515.00 ppm

90% of the Stabilized Reading: = 463.5 ppm

Time to reach 90% of Stabilized Reading  
After Switching from Zero Air to  
Calibration Gas: 9 seconds (2)

**MEASUREMENT #3:**

Stabilized Reading Using Calibration Gas: 509.00 ppm

90% of the Stabilized Reading: = 458.1 ppm

Time to reach 90% of Stabilized Reading  
After Switching from Zero Air to  
Calibration Gas: 8 seconds (3)

**CALCULATE RESPONSE TIME:**

$$\frac{(1)+(2)+(3)}{3}$$

= 8.33333 SECONDS (MUST BE LESS THAN 30 SECONDS)

PERFORMED BY: Matt Outlaw

**TABLE 3**

**STABILIZED READING AND BACKGROUND DETERMINATION**

LANDFILL NAME: Okeechobee Landfill

DATE: October 9, 2012

TIME: 10:15 AM  PM

INSTRUMENT MAKE: TVA MODEL: 1000 S/N: 1015942527

**Stabilized Reading Determination Procedure**

Calibration gas standard: 510 ppm

**MEASUREMENT #1:**

Stabilized Reading Using Calibration Gas: 506.0 ppm

**MEASUREMENT #2:**

Stabilized Reading Using Calibration Gas: 515.0 ppm

**MEASUREMENT #3:**

Stabilized Reading Using Calibration Gas: 509.0 ppm

Stable instrument reading:  $\frac{\text{Measurement \#1} + \text{Measurement \#2} + \text{Measurement \#3}}{3}$

Stable instrument reading: 510 ppm

**Background Determination Procedure**

1. Upwind Reading (highest in 30 seconds): 2.72 ppm (1)

2. Downwind Reading (highest in 30 seconds): 5.70 ppm (2)

Calculate Background Value:

$$\frac{(1) + (2)}{2}$$

Background = 4.21 ppm

PERFORMED BY: Matt Outlaw

LANDFILL NAME: Okeechobee Landfill DATE: October 9, 2012

**Site Information**

Section 1 - Weather Data	
<b>Weather Recorded From:</b> <input type="checkbox"/> On-Site Weather Station <input type="checkbox"/> Portable Device <input checked="" type="checkbox"/> Other	
<i>If "OTHER", describe device utilized for the collection of weather information below.</i>	

Weather Underground (www.wunderground.com)

Beginning of Monitoring Event		End of Monitoring Event	
<b>Time:</b>	10:15AM	<b>Time:</b>	3:30PM
<b>Temperature:</b>	79.0 °F	<b>Temperature:</b>	84.0 °F
<b>Barometer:</b>	30.04 " Hg	<b>Barometer:</b>	29.99 " Hg
<b>Humidity:</b>	83 %	<b>Humidity:</b>	62 %
<b>Wind Speed:</b>	7.0 mph	<b>Wind Speed:</b>	6.0 mph
<b>Wind Direction:</b>	N °	<b>Wind Direction:</b>	NNW °



**TABLE 1**  
**CALIBRATION PRECISION TEST RECORD**

LANDFILL NAME: Okeechobee Landfill

DATE: October 16, 2012

TIME: 2:45 AM  PM

INSTRUMENT MAKE: TVA MODEL: 1000 S/N: 1015942527

CALIBRATION GAS STANDARD: 510 ppm (check cal. gas certification - should be 500 ppm)

**MEASUREMENT #1:**

Meter Reading for Zero Air: 0.14 ppm (1)

Meter Reading for Calibration Gas: 508.00 ppm (2)

**MEASUREMENT #2:**

Meter Reading for Zero Air: -0.11 ppm (3)

Meter Reading for Calibration Gas: 510.00 ppm (4)

**MEASUREMENT #3:**

Meter Reading for Zero Air: 0.06 ppm (5)

Meter Reading for Calibration Gas: 509.00 ppm (6)

**CALCULATE PRECISION:**

$$\frac{[(510) - (2)] + [(510) - (4)] + [(510) - (6)]}{3} \times \frac{1}{510} \times \frac{100}{1}$$
$$= \underline{0.20\%}$$

PERFORMED BY: Matt Outlaw

**CALIBRATION GAS CERTIFICATION DATA AND EXPIRATION DATE: See attached**

**TABLE 2**  
**RESPONSE TIME TEST RECORD**

LANDFILL NAME: Okeechobee Landfill

DATE: October 16, 2012

TIME: 2:45 AM  PM

INSTRUMENT MAKE: TVA MODEL: 1000 S/N: 1015942527

**MEASUREMENT #1:**

Stabilized Reading Using Calibration Gas: 508.00 ppm

90% of the Stabilized Reading: = 457.2 ppm

Time to reach 90% of Stabilized Reading  
After Switching from Zero Air to  
Calibration Gas: 6 seconds (1)

**MEASUREMENT #2:**

Stabilized Reading Using Calibration Gas: 510.00 ppm

90% of the Stabilized Reading: = 459 ppm

Time to reach 90% of Stabilized Reading  
After Switching from Zero Air to  
Calibration Gas: 11 seconds (2)

**MEASUREMENT #3:**

Stabilized Reading Using Calibration Gas: 509.00 ppm

90% of the Stabilized Reading: = 458.1 ppm

Time to reach 90% of Stabilized Reading  
After Switching from Zero Air to  
Calibration Gas: 8 seconds (3)

**CALCULATE RESPONSE TIME:**

$$\frac{(1)+(2)+(3)}{3}$$

= 8.33333 SECONDS (MUST BE LESS THAN 30 SECONDS)

PERFORMED BY: Matt Outlaw

**TABLE 3**

**STABILIZED READING AND BACKGROUND DETERMINATION**

LANDFILL NAME: Okeechobee Landfill

DATE: October 16, 2012

TIME: 2:45 AM  PM

INSTRUMENT MAKE: TVA MODEL: 1000 S/N: 1015942527

**Stabilized Reading Determination Procedure**

Calibration gas standard: 510 ppm

**MEASUREMENT #1:**

Stabilized Reading Using Calibration Gas: 508.0 ppm

**MEASUREMENT #2:**

Stabilized Reading Using Calibration Gas: 510.0 ppm

**MEASUREMENT #3:**

Stabilized Reading Using Calibration Gas: 509.0 ppm

Stable instrument reading: 
$$\frac{\text{Measurement \#1} + \text{Measurement \#2} + \text{Measurement \#3}}{3}$$

Stable instrument reading: 509 ppm

**Background Determination Procedure**

1. Upwind Reading (highest in 30 seconds): 3.46 ppm (1)

2. Downwind Reading (highest in 30 seconds): 13.36 ppm (2)

Calculate Background Value:

$$\frac{(1) + (2)}{2}$$

Background = 8.41 ppm

PERFORMED BY: Matt Outlaw

LANDFILL NAME: Okeechobee Landfill DATE: October 16, 2012

**Site Information**

Section 1 - Weather Data	
<b>Weather Recorded From:</b> <input type="checkbox"/> On-Site Weather Station <input type="checkbox"/> Portable Device <input checked="" type="checkbox"/> Other <i>If "OTHER", describe device utilized for the collection of weather information below.</i>	

Weather Underground (www.wunderground.com)

Beginning of Monitoring Event		End of Monitoring Event	
<b>Time:</b>	2:45PM	<b>Time:</b>	3:30PM
<b>Temperature:</b>	86.0 °F	<b>Temperature:</b>	86.0 °F
<b>Barometer:</b>	29.81 " Hg	<b>Barometer:</b>	29.80 " Hg
<b>Humidity:</b>	48 %	<b>Humidity:</b>	48 %
<b>Wind Speed:</b>	6.0 mph	<b>Wind Speed:</b>	5.0 mph
<b>Wind Direction:</b>	N °	<b>Wind Direction:</b>	NNE °

**TABLE 1**  
**CALIBRATION PRECISION TEST RECORD**

LANDFILL NAME: Okeechobee Landfill

DATE: November 8, 2012

TIME: 8:15 AM  PM

INSTRUMENT MAKE: TVA MODEL: 1000 S/N: 1015942527

CALIBRATION GAS STANDARD: 510 ppm (check cal. gas certification - should be 500 ppm)

**MEASUREMENT #1:**

Meter Reading for Zero Air: 0.06 ppm (1)

Meter Reading for Calibration Gas: 513.00 ppm (2)

**MEASUREMENT #2:**

Meter Reading for Zero Air: 0.00 ppm (3)

Meter Reading for Calibration Gas: 510.00 ppm (4)

**MEASUREMENT #3:**

Meter Reading for Zero Air: 0.04 ppm (5)

Meter Reading for Calibration Gas: 516.00 ppm (6)

**CALCULATE PRECISION:**

$$\frac{[(510) - (2)] + [(510) - (4)] + [(510) - (6)]}{3} \times \frac{1}{510} \times \frac{100}{1}$$
$$= \underline{0.59\%}$$

PERFORMED BY: Matt Outlaw

**CALIBRATION GAS CERTIFICATION DATA AND EXPIRATION DATE: See attached**

**TABLE 2**  
**RESPONSE TIME TEST RECORD**

LANDFILL NAME: Okeechobee Landfill

DATE: November 8, 2012

TIME: 8:15 AM  PM

INSTRUMENT MAKE: TVA MODEL: 1000 S/N: 1015942527

**MEASUREMENT #1:**

Stabilized Reading Using Calibration Gas: 513.00 ppm

90% of the Stabilized Reading: = 461.7 ppm

Time to reach 90% of Stabilized Reading  
After Switching from Zero Air to  
Calibration Gas: 8 seconds (1)

**MEASUREMENT #2:**

Stabilized Reading Using Calibration Gas: 510.00 ppm

90% of the Stabilized Reading: = 459 ppm

Time to reach 90% of Stabilized Reading  
After Switching from Zero Air to  
Calibration Gas: 7 seconds (2)

**MEASUREMENT #3:**

Stabilized Reading Using Calibration Gas: 516.00 ppm

90% of the Stabilized Reading: = 464.4 ppm

Time to reach 90% of Stabilized Reading  
After Switching from Zero Air to  
Calibration Gas: 8 seconds (3)

**CALCULATE RESPONSE TIME:**

$$\frac{(1)+(2)+(3)}{3}$$

= 7.66667 SECONDS (MUST BE LESS THAN 30 SECONDS)

PERFORMED BY: Matt Outlaw

**TABLE 3**

**STABILIZED READING AND BACKGROUND DETERMINATION**

LANDFILL NAME: Okeechobee Landfill

DATE: November 8, 2012

TIME: 8:15 AM  PM

INSTRUMENT MAKE: TVA MODEL: 1000 S/N: 1015942527

**Stabilized Reading Determination Procedure**

Calibration gas standard: 510 ppm

**MEASUREMENT #1:**

Stabilized Reading Using Calibration Gas: 513.0 ppm

**MEASUREMENT #2:**

Stabilized Reading Using Calibration Gas: 510.0 ppm

**MEASUREMENT #3:**

Stabilized Reading Using Calibration Gas: 516.0 ppm

Stable instrument reading:  $\frac{\text{Measurement \#1} + \text{Measurement \#2} + \text{Measurement \#3}}{3}$

Stable instrument reading: 513 ppm

**Background Determination Procedure**

1. Upwind Reading (highest in 30 seconds): 1.59 ppm (1)

2. Downwind Reading (highest in 30 seconds): 14.73 ppm (2)

Calculate Background Value:

$$\frac{(1) + (2)}{2}$$

Background = 8.16 ppm

PERFORMED BY: Matt Outlaw

LANDFILL NAME: Okeechobee Landfill DATE: November 8, 2012

**Site Information**

**Section 1 - Weather Data**

**Weather Recorded From:**  On-Site Weather Station  Portable Device  Other

*If "OTHER", describe device utilized for the collection of weather information below.*

Weather Underground (www.wunderground.com)

Beginning of Monitoring Event		End of Monitoring Event	
Time:	8:15AM	Time:	9:00AM
Temperature:	50.0 °F	Temperature:	55.0 °F
Barometer:	30.10 " Hg	Barometer:	30.12 " Hg
Humidity:	82 %	Humidity:	58 %
Wind Speed:	6.0 mph	Wind Speed:	9.0 mph
Wind Direction:	NW °	Wind Direction:	NNW °



EXCEEDANCE RECORD

LANDFILL NAME: Okeechobee Landfill

INITIAL EXCEEDANCE: EXCEEDANCE #: 432

MEASUREMENT: 739.00 ppm TECHNICIAN: Matt Outlaw

DATE: October 9, 2012 TIME: 2:56 AM PM X

LOCATION: On the south interior slope near EW-180

CORRECTIVE ACTION: Added additional cover in the area of the exceedance

REMONITORING (WITHIN TEN (10) CALENDAR DAYS OF INITIAL EXCEEDANCE):

MEASUREMENT: 5.62 ppm TECHNICIAN: Matt Outlaw

DATE: October 16, 2012 TIME: 3:15 AM PM X

If ten (10) day remonitoring show that exceedance has not been corrected an additional corrective action shall be performed and location remonitored within ten (10) calender days. If no exceedance is found then location shall be remonitored within one (1) calender month of initial exceedance.

CORRECTIVE ACTION (if required): N/A

REMONITORING (WITHIN TEN (10) CALENDAR DAYS OF SECOND EXCEEDANCE):(IF REQUIRED)

MEASUREMENT: ppm TECHNICIAN:

DATE: TIME: AM PM

If the second ten (10) day remonitoring show that exceedance has not been corrected an additional corrective action shall be performed and location remonitored within ten (10) calender days (this will be the one (1) month remonitoring).

CORRECTIVE ACTION (if required):

ONE (1) MONTH REMONITORING :

MEASUREMENT: 9.60 ppm TECHNICIAN: Matt Outlaw

DATE: November 8, 2012 TIME: 8:50 AM PM X

If one (1) month remonitoring show that exceedance has not been corrected an additional corrective action shall be performed and location remonitored within ten (10) calender days. If the exceedance is third exceedance monitored at this location within the quarterly monitoring period, the system must be expanded within 120 days of the date of initial exceedance. Alternative remedies and/or timelines must be subitted to Administrator for approval. No further remonitoring of this location is required until remedy is complete. If monitoring shows no exceedance, no further remonitoring is required, resume normal quarterly surface emissions monitoring schedule

CORRECTIVE ACTION/REMEDY (if required):

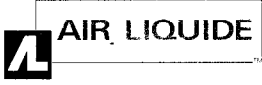
REMONITORING (WITHIN TEN (10) CALENDAR DAYS OF SECOND EXCEEDANCE): (REQUIRED IF SECOND EXCEEDANCE IS FOUND DURING ONE (1) MONTH REMONITORING)

MEASUREMENT: ppm TECHNICIAN:

DATE: TIME: AM PM

If this remonitoring shows that exceedance has not been corrected, the exceedance is third exceedance monitored at this location within the quarterly monitoring period, the system must be expanded within 120 days of the date of initial exceedance. Alternative remedies and/or timelines must be subitted to Administrator for approval. No further remonitoring of this location is required until remedy is complete. If monitoring shows no exceedance, no further remonitoring is required, resume normal quarterly surface emissions monitoring schedule

REMEDY (if required):



Air Liquide America  
Specialty Gases LLC



Shipped From: 6141 EASTON ROAD, BLDG 1  
PLUMSTEADVILLE PA 18949-0310  
Phone: 800-331-4953  
PO BOX 310  
Fax: 215-766-7226

**C E R T I F I C A T E O F A N A L Y S I S**

CARLSON ENVIRONMENTAL CONSULTANTS  
12715 KEY LIME BLVD.  
WEST PALM BEACH FL 33412  
US

DOCUMENT#: 44707433 -002  
PO#:  
ITEM #: T263-221  
DATE: 09Jan2012

ANALYTICAL ACCURACY: +/-2%  
PRODUCT EXPIRATION: 08Jan2014

SCOTT LOT#: 009PLU2SPC04L

<u>COMPONENT</u>	<u>REQUESTED GAS</u>	<u>ANALYSIS</u>
	<u>CONC MOLES</u>	<u>(MOLES)</u>
METHANE	500. PPM	510. PPM
AIR	BALANCE	BALANCE

MANUFACTURED DATE: 09Jan2012

SCOTTY SIZE: 221

APPROVED BY:   
JAKE SENKOW



Air Liquide America  
Specialty Gases LLC



Shipped From: 6141 EASTON ROAD, BLDG 1  
 PLUMSTEADVILLE PA 18949-0310  
 Phone: 800-331-4953 Fax: 215-766-7226  
**C E R T I F I C A T E O F A N A L Y S I S**

CARLSON ENVIRONMENTAL CONSULTANTS  
 12715 KEY LIME BLVD.  
 WEST PALM BEACH FL 33412  
 US

PO BOX 310  
 DOCUMENT#: 44707433 -001  
 PO#:  
 ITEM #: T100-221  
 DATE: 09Jan2012

PRODUCT EXPIRATION: 08Jan2014

SCOTT LOT#: 009PLU2SPC03L

PURE MATERIAL: AIR

CAS# 132259-10-0

GRADE: ZERO AIR

PURITY: -

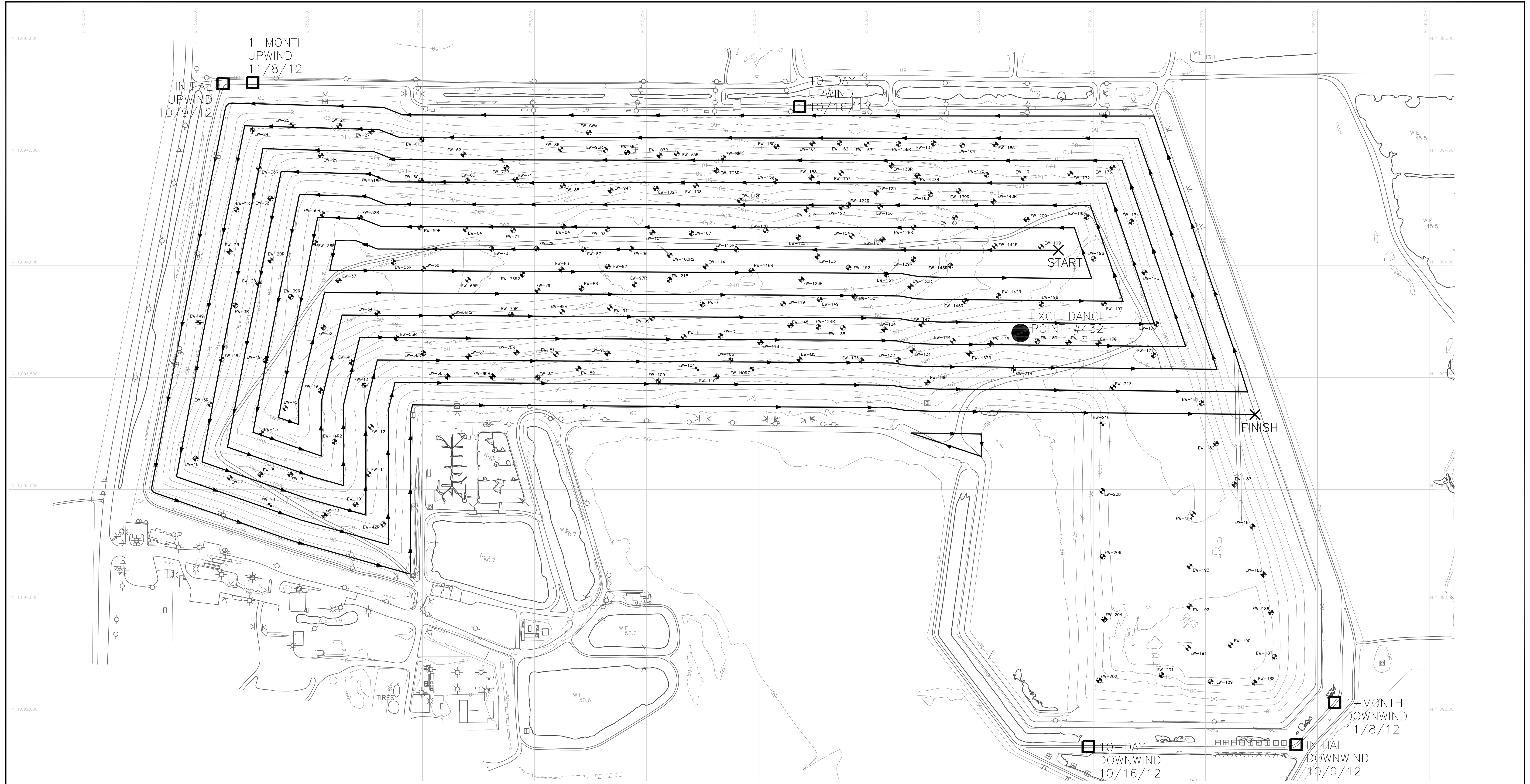
<u>IMPURITY</u>	<u>MAXIMUM CONCENTRATIONS</u>
THC	1 PPM
O2	20 TO 21%

MANUFACTURED DATE: 09Jan2012

SCOTTY SIZE: 221

APPROVED BY:

  
 JAKE SENKOW

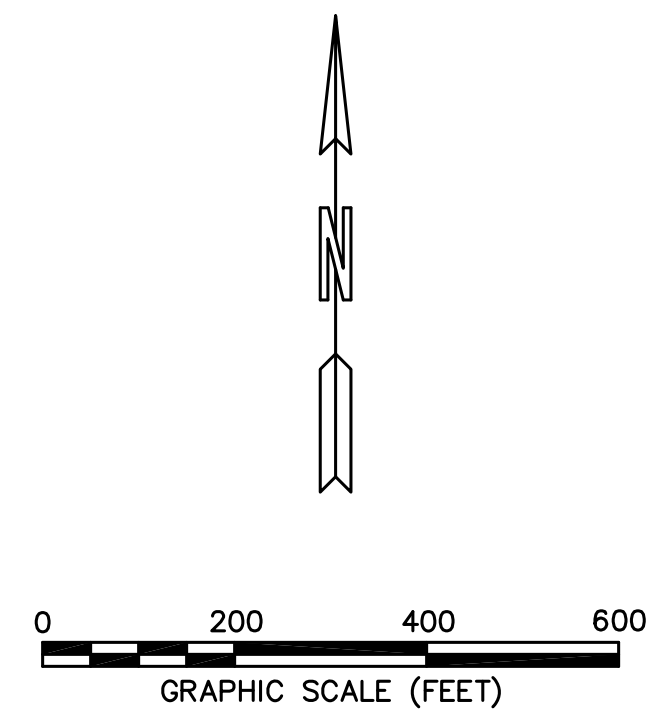


**LEGEND**

- 10 FT TOPOGRAPHIC CONTOUR LINE
- LFG VERTICAL GAS WELL
- SURFACE EMISSIONS MONITORING PATH
- EXCEEDANCE LOCATION
- UPWIND/DOWNWIND LOCATION

**NOTES**

1. TOPOGRAPHIC CONTOURS TAKEN FROM AERIAL SURVEY DATED JANUARY 20, 2012 BY PICKETT & ASSOCIATES, INC.
2. UPWIND AND DOWNWIND BACKGROUND READINGS LESS THAN 100 FEET FROM THE LIMITS OF WASTE.



<b>PROJECT:</b>		<b>FOURTH QUARTER MONITORING (2012)</b>	
<b>SITE:</b>		OKEECHOBEE LANDFILL, INC. BERMAN ROAD LANDFILL OKEECHOBEE, FLORIDA	
		<b>CARLSON ENVIRONMENTAL CONSULTANTS, PC</b> 305 SOUTH MAIN STREET MONROE, NC 28112	
<b>DRAWN BY</b>	ALN	<b>DWG.</b>	OLI.Q4.2012.SEM.ROUTE
<b>SCALE</b>	1" = 200'	<b>FIGURE 1 OF 1</b>	
<b>DATE</b>	NOVEMBER 2012		