

#	Sample date	CFRD	IgE	OW	OS	IP	PEX	IV	Home IV	Supp O ₂	O ₂ (L/min)	Sp O ₂ (%)	<i>B. cepacia</i>	<i>P. aeruginosa</i>	<i>S. aureus</i>	S-type	<i>A. fumigatus</i>	<i>S. maltophilia</i>	Other microbes	FVC%	FEV1%	FEV1/FVC%	FEF25-75%	RV%	TLC%	RV/TLC%	Disease Severity Based on FEV1%	Types of Profiles Completed	Total Depth of Sputum Sample (mm)	Oxygen Profile Characteristics	Reduction Potential Class	Lowest Reduction Potential Value (mV)	Maximum Reduction Potential Value (mV)	Presence of H ₂ S?	Highest Concentration of H ₂ S Recorded (uM)	Highest pH Recorded	Lowest pH Recorded	Presence of N ₂ O?	Highest Concentration of N ₂ O Recorded (uM)		
2	8/6/2014	1	-	1	0	0	N	Y	Y	Y	2	97	0	1	0	0	1	0		22	19	77	12	-	-	-	Severe	Oxygen, Redox, H ₂ S	-	Oxycline followed by anoxic zone	Oxidized	-	-	No	0.00	N/A	N/A	N/A	N/A		
5	4/15/2013	0		1	0	0	N													57	36	55	12	332	117	61	Severe	Oxygen	11	Oxycline followed by anoxic zone		N/A	N/A	N/A			N/A	N/A			
5	5/14/2013	0		0	0	1	Y	Y		N		96								69	48	60	18	462	152	65	Moderate	Oxygen	-	Oxycline followed by anoxic zone		N/A	N/A	N/A			N/A	N/A			
6	10/28/2013	1		1	0	0	N													39	20	44	6	313	105	63	Severe	Oxygen, Redox	-	Oxycline followed by anoxic zone	Oxidized	59.20	378.68	N/A			N/A	N/A			
6	11/25/2013	1		1	0	0	N	N		Y	2	97	0	1	1	0	0	0 yeast		45	20	40	4	310	110	59	Severe	Oxygen, Redox	10.6	Oxycline followed by anoxic zone		Not quite sure if the redox profiles are useable in this run		N/A			N/A	N/A			
6	8/13/2014	1	-	1	0	0	N	N	N	Y	2	96	-	-	-	-	-	-		-	-	-	-	-	-		Oxygen, Redox, and H ₂ S	5.5	Oxycline followed by anoxic zone	Oxidized	355.19	426.15	No	0.00	N/A	N/A	N/A	N/A			
9	8/12/2013	0	37	0	0	1	Y	Y		Y	1	97	0	1	0		0			58	47	73	25	158	78	43	Moderate	Oxygen	22	Oxycline followed by anoxic zone		N/A	N/A	N/A			N/A	N/A			
9	9/18/2013	0		1	0	0	N	N		N			0	1	0		0			57	47	74	26	183	83	47	Moderate	Oxygen, Redox	16	Oxycline followed by anoxic zone	Reduced	-234.29	395.48	N/A			N/A	N/A			
9	5/12/2014	0	-	1	0	0	N	N	N	N		98	0	1	0		0	nontuberculosis mycobacteria		54	43	71	22	175	81	45	Moderate	Oxygen, Redox, H ₂ S, pH	11.15	Oxycline followed by anoxic zone	Reduced	-198.47	347.92	Yes	96.23	5.96	4.30	N/A	N/A		
10	5/5/2014	1		0	0	1	Y	N	N	N		98	0	0	1	0	0			68	44	57	20	249	123	43	Moderate	Oxygen, H ₂ S	5.6	Oxycline followed by anoxic zone	Oxidized	N/A	N/A	No	0.00	N/A	N/A	N/A	N/A		
10	7/21/2014	1	-	1	0	0	N	N	N	N		96	0	0	1	0	0			61	45	65	23	351	138	54	Moderate	Oxygen, Redox	10.85	Oxycline followed by anoxic zone	Oxidized	74.46	322.22	N/A	N/A	N/A	N/A	N/A	N/A		
10	8/6/2014	1	711	0	1	0	Y	N	N	N		95	0	0	1	0	0			64	47	64	25	351	141	53	Moderate	Oxygen, Redox, H ₂ S, pH	23.1	Oxycline followed by anoxic zone	Oxidized	186.87	398.00	Yes	135.09	4.67	2.91	N/A	N/A		
10	9/17/2014	1	-	0	0	1	Y	Y	N	N		96								67	50	66	28	223	120	40	Moderate	Oxygen, Redox, H ₂ S, N ₂ O	17.3	Oxycline followed by anoxic zone	Oxidized	76.20	296.46	No	0.00	N/A	N/A	No	0.00		
11	10/2/2013	0	50	1	0	0	N			N		97	0	1	0		1	<i>Bacillus</i>		114	105	81	92	99	105	20	Normal to Mild	Control experiments with anoxic solutions	-	Oxycline followed by anoxic zone				N/A			N/A	N/A			
16	1/3/2013	0		0	0	1	Y	Y		Y	1	95								72	33	38	9	391	154	53	Severe	Microelectrode Demo	-	Oxycline followed by anoxic zone				N/A			N/A	N/A			
19	5/21/2013	1		0	0	1	Y	Y		Y	2.5	100								60	32	48	9	413	132	64	Severe	Oxygen	8.8	Oxycline followed by anoxic zone		N/A	N/A	N/A	N/A	N/A	N/A	N/A			
19	4/21/2014	1		0	0	1	Y	Y		Y	1	95								63	34	53	13	206	92	45	Severe	Oxygen, Redox, H ₂ S	7.75	Oxycline followed by anoxic zone	Oxidized	213.77	357.08	No	0.00	N/A	N/A	N/A	N/A		
19	9/10/2014	1		0	0	1	Y	Y		Y	2	98								62	38	56	13	279	108	52	Severe	Oxygen, Redox, H ₂ S	5.05	Oxycline followed by anoxic zone	Oxidized	382.70	408.56	No				N/A	N/A		
22	7/28/2014	0	-	1	0	0	N	N	N	N		97	0	1	0	0	0			85	54	54	19	264	130	42	Moderate	Oxygen, Redox, pH, H ₂ S	11	Oxycline followed by anoxic zone	Reduced	-422.16	379.76	Yes	146.29	7.39	5.38	N/A	N/A		
24	9/10/2014	1	-	1	0	0	N	N	N	N		100								88	87	89	129	208	114	37	Normal to Mild	Oxygen, Redox, H ₂ S	1.475	Oxycline followed by anoxic zone	Oxidized	569.15	619.28	No	0.00			N/A	N/A		
27	4/4/2013	1	138	0	0	1	Y	Y		N		99								78	65	73	43	277	122	50	Moderate	Oxygen Control Experiments with anoxic solution for oxygen sensor	3	Oxycline followed by anoxic zone		N/A	N/A	N/A	N/A	N/A	N/A	N/A			
27	10/9/2013	1	84	0	0	1	Y	Y		N		98	0	1	1	1	0	0 <i>Candida</i>		82	67	71	38	190	105	40	Moderate	Oxygen	-	Oxycline followed by anoxic zone		N/A	N/A	Not measured	N/A	N/A	N/A	N/A			
28	4/23/2013		4754		0								0	0	1	0	0	0 <i>Achromobacter xylosoxidans, acid-fast bacilli</i>		116	116	90	133	275	148	39	Normal to Mild	Oxygen	12	Oxycline followed by anoxic zone		N/A	N/A	N/A	N/A	N/A	N/A	N/A			
28	11/20/2013			0	0	1	Y	Y		N		97	0	0	1	0	0			88	81	83	70	207	116	37	Normal to Mild	Oxygen, Redox	11.6	Oxycline followed by anoxic zone	Reduced	-220.71	124.68	N/A	N/A	N/A	N/A	N/A	N/A		
29	6/16/2014	0		0	1	0	Y	N	N	N		97	0	1	1	0	0			94	75	71	37	228	117	40	Normal to Mild	Oxygen, Redox, H ₂ S	5.85	Oxycline followed by anoxic zone	Oxidized	44.52	379.55	No	0.00	N/A	N/A	N/A	N/A		
30	2/17/2014	0		1	0	0	N	N		N		100								97	85	75	59	146	105	30	Normal to Mild	Oxygen and Redox	11.5	Oxycline followed by anoxic zone	Reduced	-300.39	341.20	N/A	N/A	N/A	N/A	N/A	N/A		
30	8/11/2014	0	-	1	0	0	N	N	N	N		97	0	0	1	0	0			107	101	97	97	145	112	27	Normal to Mild	Oxygen, Redox, H ₂ S, N ₂ O	18.6	Oxycline followed by anoxic zone	Oxidized	62.67	222.08	Yes	72.27	N/A	N/A	Yes	21.83		
31	10/28/2013	1		1	0	0	N			N		99	0	1	0		0			75	68	81	59	182	96	41	Moderate	Oxygen, pH	8	Oxycline followed by anoxic zone		N/A	N/A	N/A	N/A	N/A	6.84	5.35	N/A	N/A	
31	6/18/2014	1		0	1	0	Y	N	N	N		96	0	1	1	0	0			67	52	69	16	190	92	45	Moderate	Oxygen, Redox, H ₂ S	5.95	Oxycline followed by anoxic zone	Oxidized	15.78	262.88	No	0.00	N/A	N/A	N/A	N/A		
31	8/4/2014	1	-	1	0	0	N	N	N	N		95	0	1	0	0	0			69	58	75	28	162	88	40	Moderate	Oxygen, Redox, H ₂ S	-	Oxycline followed by anoxic zone	Reduced	-	-	Yes	-	N/A	N/A	N/A	N/A		
32	7/30/2014	0	32	1	0	0	N	N	N	N		98	0	0	0		0	0 <i>Scedosporium apiospermum</i>		66	59	78	48	182	93	40	Moderate	Oxygen, Redox, H ₂ S, pH	3.25	Oxycline followed by anoxic zone	Reduced	-107.11	277.27	Yes	4.78	6.51	5.43	N/A	N/A		
32	10/1/2014	0		1	0	0	N	N	N	N		98	0	0	0		0	1		57	51	77	40	97	68	30	Moderate	Oxygen, Redox, H ₂ S	5.3	Oxycline followed by anoxic zone	Oxidized	212.16	229.05	No	0.00						
34	5/16/2013	0		0	0	1	Y	Y		N		99								83	78	80	70	124	99	26	Normal to Mild	Oxygen	20	Oxycline followed by anoxic zone		N/A	N/A	N/A				N/A	N/A		
34	7/29/2013	0		1	Y								0	0	1	0	0	0 <i>Achromobacter</i>		72	58	70	34	192	103	38	Moderate	Oxygen	31	Oxycline followed by anoxic zone		N/A	N/A	N/A				N/A	N/A		

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34	7/31/2013	0		0	0	1	Y	Y		N		98															NA	Oxygen and pH	20	Oxycline followed by anoxic zone		N/A	N/A	N/A		9.09	8.42	N/A	N/A		
34	8/6/2013	0		0	0	1	Y	Y		N		97									78	68	75	49	163	103	32	Moderate	Oxygen	-	Oxycline followed by anoxic zone		N/A	N/A	N/A		N/A	N/A	N/A	N/A	
36	3/12/2014	0		1	0	0	N			N		99	0	0	1	1	0	0			86	77	76	54	137	95	31	Normal to Mild	Oxygen, N ₂ O		Oxycline followed by anoxic zone		N/A	N/A	N/A		N/A	N/A	No	N/A	
36	6/18/2014	0		1	0	0	N	N	N	N		98	0	0	1	1	0	0			82	71	74	47	128	89	30	Normal to Mild	Oxygen, Redox, H ₂ S, pH	11.5	Oxycline followed by anoxic zone	Reduced	-169.42	247.88	Yes	87.45	8.23	3.28	N/A	N/A	
36	7/21/2014	0	-	1	0	0	N	N	N	N		100	0	0	1	1	0	0	<i>Mycobacterium avium</i>		88	84	81	87	141	96	31	Normal to Mild	Oxygen, Redox, H ₂ S		Oxycline followed by anoxic zone	Reduced	-200.76	76.09	No	0.00	N/A	N/A	N/A	N/A	
37	12/9/2013	0	108	0	1	0	N	N	N	N		100	0	1	1	0	0	0			88	71	72	49	140	107	27	Normal to Mild	Oxygen and Redox	3.5	Oxycline followed by anoxic zone	Reduced	-210.96	447.63	N/A		N/A	N/A	N/A	N/A	
41	10/30/2013	0	5	1	0	0	N	Y	Y	N		95	0	1	0		0	0			50	27	50	7	291	105	57	Severe	Oxygen, Redox, pH	11	Oxycline followed by anoxic zone	Oxidized	16.52	376.57	N/A		8.18	7.01	N/A	N/A	
41	12/16/2013	0		0	1	0	Y	N	N	Y	2	94	0	1	0		0	0	yeast		37	18	44	4				Severe	Oxygen and Redox	19	Oxycline followed by anoxic zone				N/A			N/A	N/A		
41	4/28/2014	0	8	0	0	1	Y	Y	N	Y	2	96	0	1	0	0	0	0			30	18	53	5	435	121	74	Severe	Oxygen, Redox, H ₂ S	9.25	Oxycline followed by anoxic zone	Reduced	-267.13	573.00	No	0.00	N/A	N/A	N/A	N/A	
41	4/30/2014	0		0	0	1	Y	Y	N	Y	3	96									30	18	53	5	435	121	74	Severe	Oxygen, Redox, H ₂ S		Oxycline followed by anoxic zone	Oxidized	163.20	613.03	No	0.00			N/A	N/A	
41	8/4/2014	0	-	1	0	0	N	N	N	Y	1.5	99	0	1	0		0	0			34	20	53	6	246	83	61	Severe	Oxygen, Redox, H ₂ S	6.5	Oxycline followed by anoxic zone	Oxidized	221.28	384.30	No	0.00	N/A	N/A	N/A	N/A	
42	4/14/2014	0		1	0	0	N			N		100	-	-	-	-	-	-			112	103	82	83	151	117	27	Normal to Mild	H ₂ S only	14	N/A		N/A	N/A	No	0.00	N/A	N/A	N/A	N/A	
45	10/1/2014	0	-	1	0	0	N	0	0	0		98	0	1	1	0	0	0			123	114	80	103	68	127	11	Normal to Mild	Oxygen, Redox, H ₂ S	2.65	Oxycline followed by anoxic zone	Oxidized	183.28	233.21	No	0.00	N/A	N/A	N/A	N/A	N/A