



CH2M  
3120 Highwoods Boulevard  
Suite 214  
Raleigh, NC 27604  
O +1 919 875 4311  
F +1 919 875 8491  
www.ch2m.com

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*Delivered via Electronic Mail and FedEx Overnight Delivery*

Ms. Bobbi Coleman  
South Carolina Department of Health and Environmental Control (SCDHEC)  
Assessment Section, UST Management Division  
Bureau of Land and Waste Management  
2600 Bull Street  
Columbia, SC 29201

Subject: Lewis Drive – Weekly Startup Status Update for Week 3, March 21-27, 2017  
Plantation Pipe Line Company  
Belton, South Carolina  
Site ID #18693, “Kinder Morgan Belton Pipeline Release”

Dear Ms. Coleman,

On behalf of Plantation Pipe Line Company, CH2M HILL Engineers, Inc. (CH2M) is submitting the attached weekly update for Week 3 biosparging startup activities conducted between March 21 and March 27, 2017. The biosparging system was turned on March 6, 2017. On March 21, 2017, the flow rate was increased to 3 standard cubic feet per minute in each of the vertical sparging wells and in the two diffusion aerators in Brown’s Creek. Per the Startup Plan for Surface Water Protection Measures, Revision 2 (dated February 23, 2017, and approved by SCDHEC on March 1, 2017), a pulsing sequence was used in the vertical sparging wells, while the diffusion aerators were run continuously.

Monitoring was performed according to the Startup Plan. In addition to the raw analytical data, the following summary tables are included with this submittal:

- Fixed air monitoring readings (Table 1). The fixed air monitoring station near the sparging curtain in the Brown’s Creek Protection Zone recorded levels of volatile organic compounds (VOCs) above the action level of 5 parts per million (5 ppm) for a few 10-minute time periods in the early mornings of March 25 and 27. These elevated readings each coincide with the cycling on of the pulsed Brown’s Creek sparging curtain and relatively low temperatures. Low temperatures overnight tend to cause thermal inversions, in which cold, dense air stays close to the ground surface, and air mixing is limited. Air monitoring will continue, and these readings are not cause for concern.
- Mobile air monitoring readings (Table 2).
- Air monitoring calibration results (Table 3)
- Weather observations (Table 4)
- Groundwater elevation and product thickness data (Table 5)
- Analytical results for groundwater (Table 6)
- Analytical results for surface water (Table 7)

Also included in this submittal are lab analytical reports for groundwater and surface water samples collected at the site during this time period.

If you have any questions or concerns, please call me at 919-760-1777, Mr. Scott Powell/CH2M at 678-530-4457, or Mr. Jerry Aycoc/Plantation at 770-751-4165.

Regards,  
CH2M HILL Engineers, Inc.



William M. Waldron, P.E.  
Senior Project Manager

Attachments:

- Table 1 – Summary of Fixed Air Monitoring Readings
- Table 2 – Summary of Mobile Air Monitoring Readings
- Table 3 – Summary of Air Monitoring Calibration Results
- Table 4 – Summary of Weather Observations
- Table 5 – Groundwater Elevation and Product Thickness Data
- Table 6 – Analytical Results for Groundwater
- Table 7 – Analytical Results for Surface Water
- Groundwater Analytical Lab Reports
- Surface Water Analytical Lab Reports
- Air Monitoring Output

c: Jerry Aycock, Plantation (Digital, Jerry\_Aycock@kindermorgan.com)  
Mary Clair Lyons, Esq., Plantation (Digital, Mary\_Lyons@kindermorgan.com)  
Richard Morton, Esq., Womble Carlyle Sandridge & Rice, PLLC (Digital, rmorton@wcsr.com)  
File

Tables

**Table 1. Summary of Fixed Air Monitoring Readings**

Plantation Pipe Line Company

Lewis Drive Remediation, Belton, South Carolina

Site ID #18693 "Kinder Morgan Belton Pipeline Release"

Location/ Start Date	Start Time	End Date	End Time	Number of data points	Volatile Organic Compounds (VOCs, ppm)			% Lower Explosive Limit (% LEL)			Hydrogen Sulfide (H <sub>2</sub> S, ppm)			Note	
					Minimum	Average	Peak	Minimum	Average	Peak	Minimum	Average	Peak		
<b>Cupboard Creek Fixed Monitoring Station (RT-1)</b>															
2/9/2017	12:13	2/10/2017	12:03	144	0.0	0.1	35.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	Vaccing from RT-1 in the vicinity at time of peak reading
2/10/2017	12:13	2/11/2017	12:03	144	0.0	0.1	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
2/11/2017	12:13	2/12/2017	12:03	144	0.1	0.1	0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
2/12/2017	12:13	2/13/2017	12:03	47	0.1	0.1	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
2/13/2017	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	
2/14/2017	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	
2/15/2017	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	
2/16/2017	14:01	2/16/2017	14:11	2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
2/17/2017	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	
2/18/2017	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	
2/19/2017	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	
2/20/2017	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	
2/21/2017	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	
2/22/2017	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	
2/23/2017	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	
2/24/2017	10:43	2/25/2017	11:38	1444	0.0	0.0	0.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
2/25/2017	11:39	2/26/2017	11:38	1440	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
2/26/2017	11:39	2/27/2017	11:39	1441	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
2/27/2017	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	
2/28/2017	14:49	3/1/2017	14:39	144	0.0	0.0	0.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
3/1/2017	14:49	3/2/2017	10:19	118	0.0	0.0	0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
3/2/2017	10:54	3/3/2017	16:34	35	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
3/3/2017	16:00	3/4/2017	15:50	144	0.0	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
3/4/2017	16:00	3/5/2017	15:50	144	0.0	0.0	0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
3/5/2017	16:00	3/6/2017	11:00	115	0.0	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
3/6/2017	11:18	3/7/2017	11:08	144	0.0	0.0	4.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	System started up 3/6/2017
3/7/2017	11:18	3/8/2017	9:29	133	0.0	0.1	1.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
3/8/2017	9:43	3/8/2017	16:33	42	0.0	0.0	0.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
3/9/2017	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	
3/10/2017	9:39	3/11/2017	9:29	144	0.0	0.0	2.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
3/11/2017	9:39	3/12/2017	10:29	144	0.0	0.0	2.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	Daylight saving time adjusted at 2:00 AM
3/12/2017	10:39	3/13/2017	10:29	144	0.0	0.2	8.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	The 10-minute time-weighted average around the VOC peak measurement during this timeframe was 3.3 ppm VOCs.
3/13/2017	10:39	3/13/2017	13:09	16	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
3/13/2017	13:13	3/14/2017	13:03	144	0.0	0.0	2.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
3/14/2017	13:13	3/15/2017	13:03	144	0.0	0.2	10.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	The 10-minute time-weighted average around the VOC peak measurement during this timeframe was 4.4 ppm VOCs.
3/15/2017	13:13	3/16/2017	13:03	144	0.0	0.1	7.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	The 10-minute time-weighted average around the VOC peak measurement during this timeframe was 1.3 ppm VOCs.
3/16/2017	13:19	3/17/2017	13:09	144	0.0	0.1	5.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	The 10-minute time-weighted average around the VOC peak measurement during this timeframe was 1 ppm VOCs.
3/17/2017	13:19	3/18/2017	13:09	144	0.0	0.1	4.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
3/18/2017	13:19	3/19/2017	13:09	144	0.0	0.0	0.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
3/19/2017	13:19	3/20/2017	12:39	141	0.0	0.1	3.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
3/20/2017	12:52	3/21/2017	12:42	144	0.0	0.2	3.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
3/21/2017	12:52	3/22/2017	12:42	144	0.0	0.1	3.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
3/22/2017	12:52	3/23/2017	12:42	144	0.0	0.1	1.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
3/23/2017	12:52	3/24/2017	12:42	144	0.0	0.2	3.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	

**Table 1. Summary of Fixed Air Monitoring Readings**

Plantation Pipe Line Company

Lewis Drive Remediation, Belton, South Carolina

Site ID #18693 "Kinder Morgan Belton Pipeline Release"

Location/ Start Date	Start Time	End Date	End Time	Number of data points	Volatile Organic Compounds (VOCs, ppm)			% Lower Explosive Limit (% LEL)			Hydrogen Sulfide (H <sub>2</sub> S, ppm)			Note
					Minimum	Average	Peak	Minimum	Average	Peak	Minimum	Average	Peak	
3/24/2017	12:52	3/24/2017	14:52	13	0.0	0.2	7.4	0.0	0.0	0.0	0.0	0.0	0.0	The 10-minute time-weighted average around the VOC peak measurement during this timeframe was 0.3 ppm VOCs. The 10-minute time-weighted average around the VOC peak measurement during this timeframe was 1.5 ppm VOCs.  The 10-minute time-weighted average around the VOC peak measurement during this timeframe was 1 ppm VOCs.
3/24/2017	15:17	3/25/2017	15:07	144	0.0	0.3	10.0	0.0	0.0	0.0	0.0	0.0	0.4	
3/25/2017	15:17	3/26/2017	15:07	144	0.0	0.1	3.4	0.0	0.0	0.0	0.0	0.0	0.0	
3/26/2017	15:17	3/27/2017	12:27	128	0.0	0.3	9.8	0.0	0.0	0.0	0.0	0.0	0.0	
<b>Brown's Creek Fixed Monitoring Station (RT-2)</b>														
2/9/2017	9:22	2/10/2017	9:12	144	0.0	0.0	0.3	0.0	0.0	0.0	0.0	0.0	0.0	System started up 3/6/2017  The 10-minute time-weighted average around the VOC peak measurement during this timeframe was 0.3 ppm VOCs. The 10-minute time-weighted average around the VOC peak measurement during this timeframe was 2.2 ppm VOCs. The 10-minute time-weighted average around the VOC peak measurement during this timeframe was 0.4 ppm VOCs. Daylight saving time adjusted at 2:00 AM
2/10/2017	9:22	2/11/2017	9:12	144	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
2/11/2017	9:22	2/12/2017	9:12	144	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
2/12/2017	9:22	2/12/2017	16:52	46	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
2/13/2017	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	
2/14/2017	15:14	2/15/2017	15:04	144	0.0	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.0	
2/15/2017	15:14	2/16/2017	10:24	116	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
2/16/2017	13:20	2/16/2017	13:20	1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
2/17/2017	12:21	2/18/2017	12:11	144	0.0	0.0	0.9	0.0	0.0	0.0	0.0	0.0	0.0	
2/18/2017	12:21	2/19/2017	12:11	144	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
2/19/2017	12:21	2/20/2017	11:21	139	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
2/20/2017	11:46	2/21/2017	12:10	146	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
2/21/2017	12:20	2/22/2017	12:10	144	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
2/22/2017	12:20	2/23/2017	11:40	141	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
2/23/2017	12:00	2/24/2017	6:20	111	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
2/24/2017	11:33	2/25/2017	11:23	144	0.0	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.0	
2/25/2017	11:33	2/26/2017	11:23	144	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
2/26/2017	11:33	2/27/2017	11:13	143	0.0	0.0	1.1	0.0	0.0	0.0	0.0	0.0	0.0	
2/27/2017	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	
2/28/2017	11:35	3/1/2017	13:00	153	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
3/1/2017	13:10	3/2/2017	11:00	132	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
3/2/2017	11:24	3/3/2017	11:14	144	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
3/3/2017	11:24	3/4/2017	16:44	173	0.0	0.0	1.7	0.0	0.0	0.0	0.0	0.0	0.0	
3/4/2017	16:24	3/5/2017	16:14	144	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
3/5/2017	16:24	3/6/2017	11:14	114	0.0	0.0	3.5	0.0	0.0	0.0	0.0	0.0	0.0	
3/6/2017	11:32	3/7/2017	11:22	144	0.0	0.0	0.7	0.0	0.0	0.0	0.0	0.0	0.0	
3/7/2017	11:32	3/8/2017	9:12	131	0.0	0.0	3.0	0.0	0.0	0.0	0.0	0.0	0.0	
3/8/2017	9:28	3/9/2017	9:18	144	0.0	0.3	6.1	0.0	0.0	0.0	0.0	0.0	0.0	
3/9/2017	9:28	3/10/2017	9:18	144	0.0	0.0	8.0	0.0	0.0	0.0	0.0	0.0	0.0	
3/10/2017	9:28	3/11/2017	9:55	145	0.0	0.1	5.9	0.0	0.0	0.0	0.0	0.0	0.0	
3/11/2017	10:05	3/12/2017	10:55	144	0.0	0.0	0.8	0.0	0.0	0.0	0.0	0.0	0.0	
3/12/2017	11:05	3/13/2017	10:55	144	0.0	0.0	1.3	0.0	0.0	0.0	0.0	0.0	0.0	
3/13/2017	11:05	3/13/2017	12:55	12	0.0	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.0	
3/13/2017	13:26	3/14/2017	13:16	144	0.0	0.0	3.5	0.0	0.0	0.0	0.0	0.0	0.0	
3/14/2017	13:26	3/15/2017	13:16	144	0.0	0.0	2.3	0.0	0.0	0.0	0.0	0.0	0.0	

**Table 1. Summary of Fixed Air Monitoring Readings**

Plantation Pipe Line Company

Lewis Drive Remediation, Belton, South Carolina

Site ID #18693 "Kinder Morgan Belton Pipeline Release"

Location/ Start Date	Start Time	End Date	End Time	Number of data points	Volatile Organic Compounds (VOCs, ppm)			% Lower Explosive Limit (% LEL)			Hydrogen Sulfide (H <sub>2</sub> S, ppm)			Note
					Minimum	Average	Peak	Minimum	Average	Peak	Minimum	Average	Peak	
3/15/2017	13:26	3/16/2017	13:16	144	0.0	0.7	14.5	0.0	0.0	0.0	0.0	0.0	0.0	The highest 10-minute time-weighted average VOC measurement during this timeframe was 5.9 ppm. The peak measurements coincided with the cycling on of the pulsed sparging curtain at Brown's Creek and low early morning temperatures and lasted no longer than 10 minutes.
3/16/2017	13:26	3/17/2017	13:31	145	0.0	0.6	20.2	0.0	0.0	0.0	0.0	0.0	0.0	The highest 10-minute time-weighted average VOC measurement during this timeframe was 8.3 ppm. The peak measurements coincided with the cycling on of the pulsed sparging curtain at Brown's Creek and low early morning temperatures and lasted no longer than 20 minutes.
3/17/2017	13:41	3/18/2017	13:31	144	0.0	0.0	2.0	0.0	0.0	0.0	0.0	0.0	0.0	
3/18/2017	13:41	3/19/2017	13:31	144	0.0	0.0	4.4	0.0	0.0	0.0	0.0	0.0	0.0	
3/19/2017	13:41	3/20/2017	13:01	141	0.0	0.8	12.0	0.0	0.0	0.0	0.0	0.0	0.0	The highest 10-minute time-weighted average VOC measurement during this timeframe was 5.9 ppm. The peak measurements coincided with the cycling on of the pulsed sparging curtain at Brown's Creek and low early morning temperatures and lasted no longer than 40 minutes.
3/20/2017	13:14	3/21/2017	13:04	144	0.0	0.0	3.6	0.0	0.0	0.0	0.0	0.0	0.0	
3/21/2017	13:14	3/22/2017	13:04	144	0.0	0.1	5.5	0.0	0.0	0.0	0.0	0.0	0.0	
3/22/2017	13:14	3/23/2017	13:04	144	0.0	0.2	6.2	0.0	0.0	0.0	0.0	0.0	0.0	The 10-minute time-weighted average around the VOC peak measurement during this timeframe was 1 ppm VOCs.
3/23/2017	13:14	3/24/2017	13:04	144	0.0	0.1	10.9	0.0	0.0	0.0	0.0	0.0	0.0	The 10-minute time-weighted average around the VOC peak measurement during this timeframe was 1 ppm VOCs.
3/24/2017	13:14	3/24/2017	15:34	15	0.0	0.0	1.9	0.0	0.0	0.0	0.0	0.0	0.0	
3/24/2017	15:51	3/25/2017	15:41	144	0.0	0.8	29.6	0.0	0.0	0.0	0.0	0.0	0.0	The highest 10-minute time-weighted average VOC measurement during this timeframe was 10.4 ppm. The peak measurements coincided with the cycling on of the pulsed sparging curtain at Brown's Creek and low early morning temperatures and lasted no longer than 20 minutes.
3/25/2017	15:51	3/26/2017	15:41	144	0.0	0.0	2.6	0.0	0.0	0.0	0.0	0.0	0.0	
3/26/2017	15:51	3/27/2017	12:51	127	0.0	0.4	36.9	0.0	0.0	0.0	0.0	0.0	0.0	The highest 10-minute time-weighted average VOC measurement during this timeframe was 10.7 ppm. The peak measurements coincided with the cycling on of the pulsed sparging curtain at Brown's Creek and low early morning temperatures and lasted no longer than 20 minutes.

Notes:

Readings collected with a MultiRAE PGM-6228 calibrated with 1 ppm hydrogen sulfide and 10 ppm isobutylene calibration gases.

H<sub>2</sub>S = hydrogen sulfide

LEL = lower explosive limit

ppm = parts per million

VOC = volatile organic compound

NC = not collected due to battery/equipment failure

**Table 2. Summary of Mobile Air Monitoring Readings**

Plantation Pipe Line Company

Lewis Drive Remediation, Belton, South Carolina

Site ID #18693 "Kinder Morgan Belton Pipeline Release"

Location/		Volatile Organic Compounds (VOCs, ppm)			% Lower Explosive Limit (% LEL)			Hydrogen Sulfide (H <sub>2</sub> S, ppm)			Note
Date	Time	Minimum	Average	Peak	Minimum	Average	Peak	Minimum	Average	Peak	
<b>SW-03</b>											
3/2/2017	16:19	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	System started up 3/6/2017
3/3/2017	15:59	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
3/4/2017	14:30	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
3/5/2017	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	
3/6/2017	14:10	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
3/7/2017	9:03	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
3/7/2017	13:00	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
3/8/2017	11:12	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
3/9/2017	9:14	0.0	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.0	
3/10/2017	10:05	0.0	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.0	
3/11/2017	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	
3/12/2017	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	
3/13/2017	10:01	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
3/16/2017	13:59	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
3/18/2017	12:49	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
3/20/2017	12:57	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
3/22/2017	9:19	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
3/24/2017	15:27	0.0	0.0	0.5	0.0	0.0	0.0	0.0	0.0	0.0	
3/27/2017	12:54	0.0	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.0	
<b>SW-06</b>											
3/2/2017	15:39	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	System started up 3/6/2017
3/3/2017	14:59	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
3/4/2017	15:40	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
3/5/2017	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	
3/6/2017	13:25	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
3/7/2017	11:04	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
3/8/2017	10:27	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
3/9/2017	10:08	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
3/9/2017	12:54	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
3/10/2017	12:21	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
3/11/2017	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	
3/12/2017	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	
3/13/2017	11:18	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
3/16/2017	13:01	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
3/18/2017	13:32	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	

**Table 2. Summary of Mobile Air Monitoring Readings**

Plantation Pipe Line Company

Lewis Drive Remediation, Belton, South Carolina

Site ID #18693 "Kinder Morgan Belton Pipeline Release"

Location/		Volatile Organic Compounds (VOCs, ppm)			% Lower Explosive Limit (% LEL)			Hydrogen Sulfide (H <sub>2</sub> S, ppm)			Note
Date	Time	Minimum	Average	Peak	Minimum	Average	Peak	Minimum	Average	Peak	
3/20/2017	12:27	0.0	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.0	
3/22/2017	10:02	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
3/24/2017	16:31	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
3/27/2017	9:13	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
<b>SW-12</b>											
3/2/2017	16:37	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
3/3/2017	16:18	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
3/4/2017	15:18	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
3/5/2017	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	
3/6/2017	12:30	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	System started up 3/6/2017
3/7/2017	8:45	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
3/7/2017	12:42	0.0	0.0	0.4	0.0	0.0	0.0	0.0	0.0	0.0	
3/8/2017	11:30	0.0	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.0	
3/9/2017	8:53	0.0	0.1	0.5	0.0	0.0	0.0	0.0	0.0	0.0	
3/9/2017	13:30	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
3/10/2017	10:22	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
3/11/2017	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	
3/12/2017	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	
3/13/2017	9:41	0.0	0.0	0.3	0.0	0.0	0.0	0.0	0.0	0.0	
3/16/2017	9:59	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
3/18/2017	12:13	0.0	0.0	0.4	0.0	0.0	0.0	0.0	0.0	0.0	
3/20/2017	9:14	0.0	0.0	0.5	0.0	0.0	0.0	0.0	0.0	0.0	
3/22/2017	8:36	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
3/24/2017	9:16	0.0	0.0	0.5	0.0	0.0	0.0	0.0	0.0	0.0	
3/27/2017	10:26	0.0	0.1	0.2	0.0	0.0	0.0	0.0	0.0	0.0	
<b>Brown's Creek under Lewis Dr</b>											
3/2/2017	17:14	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
3/3/2017	14:12	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
3/4/2017	15:58	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	System started up 3/6/2017
3/5/2017	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	
3/6/2017	14:46	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
3/6/2017	16:08	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
3/7/2017	9:42	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
3/7/2017	13:40	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
3/8/2017	12:13	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	



**Table 2. Summary of Mobile Air Monitoring Readings**

Plantation Pipe Line Company

Lewis Drive Remediation, Belton, South Carolina

Site ID #18693 "Kinder Morgan Belton Pipeline Release"

Location/		Volatile Organic Compounds (VOCs, ppm)			% Lower Explosive Limit (% LEL)			Hydrogen Sulfide (H <sub>2</sub> S, ppm)			Note
Date	Time	Minimum	Average	Peak	Minimum	Average	Peak	Minimum	Average	Peak	
3/9/2017	11:52	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
3/9/2017	13:50	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
3/10/2017	12:43	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
3/11/2017	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	
3/12/2017	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	
3/13/2017	13:40	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
3/16/2017	14:17	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
3/18/2017	14:52	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
3/20/2017	13:31	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
3/22/2017	11:07	0.0	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.0	
3/24/2017	16:10	0.0	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.0	
3/27/2017	13:18	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
<b>Vertical sparge well cluster at Brown's Creek (includes MW-40)</b>											
3/2/2017	16:54	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
3/3/2017	16:51	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
3/4/2017	14:53	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
3/5/2017	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	
3/6/2017	14:27	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	System started up 3/6/2017
3/6/2017	15:48	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
3/7/2017	9:23	0.0	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.0	
3/7/2017	13:19	0.0	0.0	0.2	0.0	0.0	0.0	0.0	0.0	0.0	
3/8/2017	11:45	0.0	0.0	0.2	0.0	0.0	0.0	0.0	0.0	0.0	
3/9/2017	8:36	0.0	0.2	2.3	0.0	0.0	0.0	0.0	0.0	0.0	
3/9/2017	13:13	0.0	0.0	0.7	0.0	0.0	0.0	0.0	0.0	0.0	
3/10/2017	10:39	0.0	0.0	0.3	0.0	0.0	0.0	0.0	0.0	0.0	
3/11/2017	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	
3/12/2017	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	
3/13/2017	9:20	0.0	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.0	
3/13/2017	14:00	0.0	0.1	1.3	0.0	0.0	0.0	0.0	0.0	0.0	
3/16/2017	9:34	0.0	0.0	0.6	0.0	0.0	0.0	0.0	0.0	0.0	
3/18/2017	12:29	0.0	0.3	1.5	0.0	0.0	0.0	0.0	0.0	0.0	
3/20/2017	9:40	0.0	0.1	1.3	0.0	0.0	0.0	0.0	0.0	0.0	
3/22/2017	8:53	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	



**Table 2. Summary of Mobile Air Monitoring Readings**

Plantation Pipe Line Company

Lewis Drive Remediation, Belton, South Carolina

Site ID #18693 "Kinder Morgan Belton Pipeline Release"

Location/		Volatile Organic Compounds (VOCs, ppm)			% Lower Explosive Limit (% LEL)			Hydrogen Sulfide (H <sub>2</sub> S, ppm)			Note
Date	Time	Minimum	Average	Peak	Minimum	Average	Peak	Minimum	Average	Peak	
3/8/2017	10:48	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
3/9/2017	11:31	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
3/10/2017	10:59	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
3/11/2017	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	
3/12/2017	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	
3/13/2017	12:31	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
3/16/2017	12:16	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
3/18/2017	13:09	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
3/20/2017	11:48	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
3/22/2017	9:41	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
3/24/2017	12:33	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
3/27/2017	12:06	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
<b>City of Belton water branch line valve to former residence at 112 Lewis Dr</b>											
3/6/2017	13:06	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	System started up 3/6/2017
3/6/2017	15:27	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
3/7/2017	10:22	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
3/7/2017	14:16	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
3/8/2017	10:09	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
3/9/2017	10:27	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
3/9/2017	12:36	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
3/10/2017	11:41	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	Battery died; replaced and re-ran 15 minute interval
3/10/2017	11:54	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
3/11/2017	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	
3/12/2017	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	
3/13/2017	10:36	0.0	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.0	
3/16/2017	12:41	0.0	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.0	
3/18/2017	13:55	0.0	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.0	
3/20/2017	12:08	0.0	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.0	
3/22/2017	10:20	0.0	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.0	
3/24/2017	13:02	0.0	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.0	
3/27/2017	9:33	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	

Notes:

Readings collected with a MultiRAE PGM-6228 calibrated with 1 ppm hydrogen sulfide and 10 ppm isobutylene calibration gases.

Biosparging system was started on March 6, 2017.

**Table 2. Summary of Mobile Air Monitoring Readings**

*Plantation Pipe Line Company*

*Lewis Drive Remediation, Belton, South Carolina*

*Site ID #18693 "Kinder Morgan Belton Pipeline Release"*

Location/ Date	Time	Volatile Organic Compounds (VOCs, ppm)			% Lower Explosive Limit (% LEL)			Hydrogen Sulfide (H <sub>2</sub> S, ppm)			Note
		Minimum	Average	Peak	Minimum	Average	Peak	Minimum	Average	Peak	

H<sub>2</sub>S = hydrogen sulfide

LEL = lower explosive limit

MW = monitoring well location

ppm = parts per million

SW = surface water sampling point location

VOC = volatile organic compound

NC = not collected due to date occurring on a weekend

**Table 3. Summary of Air Monitoring Calibration Results**

*Plantation Pipe Line Company*

*Lewis Drive Remediation, Belton, South Carolina*

*Site ID #18693 "Kinder Morgan Belton Pipeline Release"*

Date	Meter	Gas	Concentration	Calibration Gas	Instrument	Note
				Lot Number	Reading	
2/6/2017	16575	Methane (50% of LEL)	2.5%	BAQ-412-5	Pass	Fixed meter at RT-1
		Isobutylene	100 ppm	LTK045-RK-CM	Pass	
		Oxygen	20.9%	BAQ-412-5	Pass	
		Hydrogen sulfide	25 ppm	BAQ-412-5	Pass	
		Carbon monoxide	50 ppm	BAQ-412-5	Pass	
2/6/2017	19798	Methane (50% of LEL)	2.5%	DAQ-413-18-10	Pass	Fixed meter at RT-2
		Isobutylene	100 ppm	LTK045-RK-CM	Pass	
		Oxygen	18%	DAQ-413-18-10	Pass	
		Hydrogen sulfide	10 ppm	DAQ-413-18-10	Pass	
		Carbon monoxide	50 ppm	DAQ-413-18-10	Pass	
2/7/2017	22523	Methane (50% of LEL)	2.5%	DAQ-413-18-10	Pass	Mobile meter
		Isobutylene	100 ppm	LTK045-RK-CM	Pass	
		Oxygen	18%	DAQ-413-18-10	Pass	
		Hydrogen sulfide	10 ppm	DAQ-413-18-10	Pass	
		Carbon monoxide	50 ppm	DAQ-413-18-10	Pass	
3/2/2017	23690	Methane (50% of LEL)	2.5%	LBG-431-18-1	Pass	Fixed meter at RT-1
		Isobutylene	10 ppm	LTA-235-RR-GM	Pass	
		Oxygen	18%	LBG-431-18-1	Pass	
		Hydrogen sulfide	10 ppm	LBG-431-18-1	Pass	
		Hydrogen sulfide	1 ppm	CBH-98-1-1	Pass	
		Carbon monoxide	50 ppm	LBG-431-18-1	Pass	
3/2/2017	19798	Methane (50% of LEL)	2.5%	LBG-431-18-1	Pass	Fixed meter at RT-2
		Isobutylene	10 ppm	LTA-235-RR-GM	Pass	
		Oxygen	18%	LBG-431-18-1	Pass	
		Hydrogen sulfide	10 ppm	LBG-431-18-1	Pass	
		Hydrogen sulfide	1 ppm	CBH-98-1-1	Pass	
		Carbon monoxide	50 ppm	LBG-431-18-1	Pass	
3/2/2017	22523	Methane (50% of LEL)	2.5%	LBG-431-18-1	Pass	Mobile meter
		Isobutylene	10 ppm	LTA-235-RR-GM	Pass	
		Oxygen	18%	LBG-431-18-1	Pass	
		Hydrogen sulfide	10 ppm	LBG-431-18-1	Pass	
		Hydrogen sulfide	1 ppm	CBH-98-1-1	Pass	
		Carbon monoxide	50 ppm	LBG-431-18-1	Pass	
3/24/2017	23690	Methane (50% of LEL)	50.0%	LBG-431-18-1	Pass	Fixed meter at RT-1
		Isobutylene	10 ppm	LTA-235-RR-GM	Pass	
		Oxygen	18%	LBG-431-18-1	Pass	
		Hydrogen sulfide	10 ppm	LBG-431-18-1	Pass	
		Hydrogen sulfide	1 ppm	CBH-98-1-1	Pass	
		Carbon monoxide	50 ppm	LBG-431-18-1	Pass	
3/24/2017	22523	Methane (50% of LEL)	50.0%	LBG-431-18-1	Pass	Mobile meter
		Isobutylene	10 ppm	LTA-235-RR-GM	Pass	
		Oxygen	18%	LBG-431-18-1	Pass	
		Hydrogen sulfide	10 ppm	LBG-431-18-1	Pass	
		Hydrogen sulfide	1 ppm	CBH-98-1-1	Pass	
		Carbon monoxide	50 ppm	LBG-431-18-1	Pass	
3/24/2017	19798	Methane (50% of LEL)	50.0%	LBG-431-18-1	Pass	Fixed meter at RT-2
		Isobutylene	10 ppm	LTA-235-RR-GM	Pass	
		Oxygen	18%	LBG-431-18-1	Pass	
		Hydrogen sulfide	10 ppm	LBG-431-18-1	Pass	
		Hydrogen sulfide	1 ppm	CBH-98-1-1	Pass	
		Carbon monoxide	50 ppm	LBG-431-18-1	Pass	

Notes:

LEL = lower explosive limit

ppm = parts per million

**Table 4. Summary of Weather Observations**

*Plantation Pipe Line Company*

*Lewis Drive Remediation, Belton, South Carolina*

*Site ID #18693 "Kinder Morgan Belton Pipeline Release"*

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<b>Date</b>	<b>Temperature (°F)</b>	<b>Wind (mph)</b>	<b>Wind Direction Origin</b>	<b>Observation</b>
3/2/2017	65	0-5	west	sunny
3/3/2017	60	5-10	northwest	sunny
3/4/2017	60	5-10	west	sunny
3/5/2017	NC	NC	NC	NC
3/6/2017	65	0-5	southwest	partly sunny
3/7/2017	65	5-10	northwest	partly cloudy
3/8/2017	70	5-10	west-northwest	sunny
3/9/2017	70	5-10	northwest	sunny
3/10/2017	70	10-15	west	sunny
3/11/2017	NC	NC	NC	NC
3/12/2017	NC	NC	NC	NC
3/13/2017	43	10-15	northeast	cloudy with periods of rain
3/16/2017	47	5-10	west-southwest	sunny
3/18/2017	63	5-10	west-southwest	cloudy
3/20/2017	65	0-5	southwest	sunny
3/22/2017	60	5-10	north-northeast	cloudy
3/24/2017	70	5-10	west-southwest	partly cloudy
3/27/2017	75	0-5	south-southwest	partly cloudy

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Note:

mph = miles per hour

°F = degrees Fahrenheit

NC = not collected due to day occurring on weekend

**Table 5. Groundwater Elevation and Product Thickness Data**

*Plantation Pipe Line Company*

*Lewis Drive Remediation, Belton, South Carolina*

*Site ID #18693 "Kinder Morgan Belton Pipeline Release"*

Location ID	Date	Depth to Product (ft BTOC)	Depth to Water (ft BTOC)	Product Thickness (ft)	Top of Casing Elevation <sup>1,2</sup> (ft amsl)	Groundwater Elevation (ft amsl)	Corrected <sup>3</sup> Groundwater Elevation (ft amsl)
MW-01					853.07		
	3/2/2017	-	9.43	-		843.64	-
MW-01B					852.99		
	3/2/2017	-	11.27	-		841.72	-
MW-02					841.04		
	3/2/2017	10.60	10.61	0.01		830.43	830.44
MW-02B					841.18		
	3/2/2017	-	12.64	-		828.54	-
MW-03					838.36		
	3/2/2017	-	11.52	-		826.84	-
MW-04					844.42		
	3/2/2017	-	14.15	-		830.27	-
MW-05					851.11		
	3/2/2017	-	18.51	-		832.60	-
MW-06					852.92		
	3/2/2017	-	17.68	-		835.24	-
MW-07					853.02		
	3/2/2017	-	13.22	-		839.80	-
MW-08					844.72		
	3/2/2017	-	15.70	-		829.02	-
MW-09					843.63		
	3/2/2017	-	12.03	-		831.60	-
MW-10					845.41		
	3/2/2017	-	15.91	-		829.50	-
MW-11					855.63		
	3/2/2017	-	DRY	-		-	-
MW-12					834.53		
	3/27/2017	15.04	15.73	0.69		818.80	819.31
	3/20/2017	14.81	15.20	0.39		819.34	819.62
	3/13/2017	14.89	15.62	0.73		818.92	819.45
	3/10/2017	14.76	15.39	0.63		819.14	819.60
	3/9/2017	14.90	15.71	0.81		818.82	819.41
	3/8/2017	14.78	15.41	0.63		819.12	819.58
	3/7/2017	14.71	15.19	0.48		819.34	819.69
	3/6/2017	14.99	15.57	0.58		818.96	819.39
	3/2/2017	15.35	16.30	0.95		818.23	818.93
MW-12B					834.98		
	3/27/2017	-	15.54	-		819.44	-
	3/20/2017	-	15.45	-		819.53	-
	3/13/2017	-	15.33	-		819.65	-
	3/10/2017	-	15.17	-		819.81	-
	3/9/2017	-	15.41	-		819.57	-
	3/8/2017	-	15.19	-		819.79	-
	3/7/2017	15.12	15.13	0.01		819.85	819.85
	3/6/2017	-	15.32	-		819.66	-
	3/2/2017	-	15.87	-		819.11	-
MW-13					848.84		
	3/2/2017	-	22.05	-		826.79	-
MW-13B					849.82		
	3/2/2017	-	24.80	-		825.02	-

**Table 5. Groundwater Elevation and Product Thickness Data**

*Plantation Pipe Line Company*

*Lewis Drive Remediation, Belton, South Carolina*

*Site ID #18693 "Kinder Morgan Belton Pipeline Release"*

Location ID	Date	Depth to Product (ft BTOC)	Depth to Water (ft BTOC)	Product Thickness (ft)	Top of Casing Elevation <sup>1,2</sup> (ft amsl)	Groundwater Elevation (ft amsl)	Corrected <sup>3</sup> Groundwater Elevation (ft amsl)
MW-14					838.70		
	3/2/2017	-	18.87	-		819.83	-
MW-14B					840.20		
	3/2/2017	-	20.62	-		819.58	-
MW-15					831.03		
	3/27/2017	-	13.78	-		817.25	-
	3/20/2017	-	13.12	-		817.92	-
	3/13/2017	-	13.27	-		817.76	-
	3/10/2017	-	12.87	-		818.16	-
	3/9/2017	-	13.28	-		817.75	-
	3/8/2017	-	13.02	-		818.01	-
	3/7/2017	-	12.33	-		818.70	-
	3/6/2017	-	12.79	-		818.24	-
	3/2/2017	-	13.85	-		817.18	-
MW-15B					831.29		
	3/27/2017	-	16.69	-		814.60	-
	3/20/2017	-	16.68	-		814.61	-
	3/13/2017	-	16.63	-		814.66	-
	3/10/2017	-	16.42	-		814.87	-
	3/9/2017	-	16.18	-		815.11	-
	3/8/2017	-	16.91	-		814.38	-
	3/7/2017	-	16.46	-		814.83	-
	3/6/2017	-	16.87	-		814.42	-
	3/2/2017	-	17.01	-		814.28	-
MW-16					847.67		
	3/2/2017	15.05	18.55	3.50		829.12	831.67
MW-17					855.35		
	3/20/2017	-	10.83	-		844.52	-
	3/13/2017	-	10.82	-		844.53	-
	3/2/2017	-	10.83	-		844.52	-
MW-17B					855.37		
	3/20/2017	-	19.06	-		836.31	-
	3/13/2017	-	19.05	-		836.32	-
	3/2/2017	-	19.28	-		836.09	-
MW-18					846.89		
	3/2/2017	17.16	19.45	2.29		827.44	829.11
MW-19					853.94		
	3/27/2017	-	11.86	-		842.08	-
	3/20/2017	-	11.79	-		842.15	-
	3/13/2017	-	11.77	-		842.17	-
	3/10/2017	-	11.71	-		842.23	-
	3/9/2017	-	11.79	-		842.15	-
	3/8/2017	-	11.78	-		842.16	-
	3/7/2017	-	11.77	-		842.17	-
	3/6/2017	11.76	11.76	0.00		842.18	842.18
	3/2/2017	-	11.75	-		842.19	-
MW-20					852.89		
	3/27/2017	14.41	16.00	1.59		836.89	838.05
	3/20/2017	14.48	15.60	1.12		837.29	838.11
	3/13/2017	14.60	16.33	1.73		836.56	837.82



**Table 5. Groundwater Elevation and Product Thickness Data**

*Plantation Pipe Line Company*

*Lewis Drive Remediation, Belton, South Carolina*

*Site ID #18693 "Kinder Morgan Belton Pipeline Release"*

Location ID	Date	Depth to Product (ft BTOC)	Depth to Water (ft BTOC)	Product Thickness (ft)	Top of Casing Elevation <sup>1,2</sup> (ft amsl)	Groundwater Elevation (ft amsl)	Corrected <sup>3</sup> Groundwater Elevation (ft amsl)
MW-20 (cont'd)	3/10/2017	14.59	16.34	1.75		836.55	837.82
	3/9/2017	14.60	15.32	0.72		837.57	838.09
	3/8/2017	14.63	15.39	0.76		837.50	838.05
	3/7/2017	14.71	16.43	1.72		836.46	837.71
	3/6/2017	14.77	16.56	1.79		836.33	837.64
	3/2/2017	14.74	16.55	1.81		836.34	837.66
MW-21					855.77		
	3/20/2017	-	18.47	-		837.30	-
	3/13/2017	-	18.58	-		837.19	-
	3/2/2017	-	18.65	-		837.12	-
MW-22					854.60		
	3/2/2017	-	9.99	-		844.61	-
MW-23					849.57		
	3/20/2017	-	12.01	-		837.56	-
	3/13/2017	-	12.09	-		837.48	-
	3/2/2017	-	12.23	-		837.34	-
MW-23B					849.69		
	3/20/2017	-	12.81	-		836.88	-
	3/13/2017	-	12.77	-		836.92	-
	3/2/2017	-	12.80	-		836.89	-
MW-24					817.92		
	3/13/2017	-	4.50	-		813.42	-
	3/2/2017	-	4.54	-		813.38	-
MW-24B					818.72		
	3/13/2017	-	5.51	-		813.21	-
	3/2/2017	-	5.60	-		813.12	-
MW-25					826.18		
	3/27/2017	-	8.66	-		817.52	-
	3/20/2017	-	7.09	-		819.10	-
	3/13/2017	-	8.52	-		817.66	-
	3/10/2017	-	8.46	-		817.72	-
	3/9/2017	-	8.61	-		817.57	-
	3/8/2017	-	8.58	-		817.60	-
	3/7/2017	-	8.52	-		817.66	-
	3/6/2017	-	8.48	-		817.70	-
	3/2/2017	-	8.87	-		817.31	-
MW-25B					823.81		
	3/27/2017	-	5.85	-		817.96	-
	3/20/2017	-	7.34	-		816.47	-
	3/13/2017	-	5.95	-		817.86	-
	3/10/2017	-	5.94	-		817.87	-
	3/9/2017	-	5.92	-		817.89	-
	3/8/2017	-	5.91	-		817.90	-
	3/7/2017	-	5.99	-		817.82	-
	3/6/2017	-	6.31	-		817.50	-
	3/2/2017	-	6.07	-		817.74	-
MW-26					847.56		
	3/20/2017	-	7.34	-		840.22	-
	3/13/2017	-	7.40	-		840.16	-
	3/2/2017	-	7.53	-		840.03	-

**Table 5. Groundwater Elevation and Product Thickness Data**

*Plantation Pipe Line Company*

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*Site ID #18693 "Kinder Morgan Belton Pipeline Release"*

Location ID	Date	Depth to Product (ft BTOC)	Depth to Water (ft BTOC)	Product Thickness (ft)	Top of Casing Elevation <sup>1,2</sup> (ft amsl)	Groundwater Elevation (ft amsl)	Corrected <sup>3</sup> Groundwater Elevation (ft amsl)
MW-26B					847.81		
	3/20/2017	-	9.87	-		837.94	-
	3/13/2017	-	9.92	-		837.89	-
	3/2/2017	-	10.03	-		837.78	-
MW-27					854.11		
	3/2/2017	-	28.65	-		825.46	-
MW-27B					857.14		
	3/2/2017	-	32.08	-		825.06	-
MW-28					844.31		
	3/27/2017	-	25.23	-		819.08	-
	3/20/2017	-	25.63	-		818.68	-
	3/13/2017	-	24.65	-		819.67	-
	3/10/2017	-	24.71	-		819.60	-
	3/9/2017	-	24.74	-		819.57	-
	3/8/2017	-	24.74	-		819.57	-
	3/7/2017	-	24.78	-		819.53	-
	3/6/2017	-	24.72	-		819.60	-
	3/2/2017	-	24.75	-		819.56	-
MW-29					852.20		
	3/27/2017	-	11.27	-		840.93	-
	3/20/2017	-	11.28	-		840.92	-
	3/13/2017	-	11.35	-		840.85	-
	3/10/2017	-	11.37	-		840.83	-
	3/9/2017	-	10.35	-		841.85	-
	3/8/2017	-	11.45	-		840.75	-
	3/7/2017	-	11.42	-		840.78	-
	3/6/2017	-	11.41	-		840.79	-
	3/2/2017	-	11.55	-		840.65	-
MW-30					841.28		
	3/2/2017	-	DRY	-		-	-
MW-31					845.04		
	3/2/2017	-	21.58	-		823.46	-
MW-31B					844.94		
	3/2/2017	-	21.78	-		823.16	-
MW-32					842.93		
	3/2/2017	-	14.85	-		828.08	-
MW-33					849.20		
	3/2/2017	-	26.98	-		822.22	-
MW-33T					849.11		
	3/2/2017	-	28.18	-		820.93	-
MW-34					816.35		
	3/20/2017	-	2.67	-		813.68	-
	3/13/2017	-	2.58	-		813.77	-
MW-35					829.40		
	3/27/2017	-	9.57	-		819.83	-
	3/20/2017	-	9.48	-		819.92	-
	3/17/2017	-	9.01	-		820.39	-
	3/16/2017	-	9.01	-		820.39	-
	3/15/2017	-	8.79	-		820.61	-
	3/14/2017	-	9.69	-		819.71	-

**Table 5. Groundwater Elevation and Product Thickness Data**

*Plantation Pipe Line Company*

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*Site ID #18693 "Kinder Morgan Belton Pipeline Release"*

Location ID	Date	Depth to Product (ft BTOC)	Depth to Water (ft BTOC)	Product Thickness (ft)	Top of Casing Elevation <sup>1,2</sup> (ft amsl)	Groundwater Elevation (ft amsl)	Corrected <sup>3</sup> Groundwater Elevation (ft amsl)
MW-35 (cont'd)	3/13/2017	-	9.65	-		819.76	-
	3/10/2017	-	9.78	-		819.62	-
	3/9/2017	-	8.57	-		820.83	-
	3/8/2017	-	7.99	-		821.41	-
	3/7/2017	-	9.44	-		819.96	-
	3/6/2017	-	9.59	-		819.82	-
	3/2/2017	-	10.03	-		819.37	-
MW-36					858.47		
	3/2/2017	-	21.87	-		836.60	-
MW-36B					858.15		
	3/2/2017	-	21.55	-		836.60	-
MW-37					813.92		
	3/2/2017	-	3.54	-		810.38	-
MW-38					813.28		
	3/20/2017	-	1.99	-		811.29	-
	3/13/2017	-	1.93	-		811.35	-
	3/2/2017	-	2.00	-		811.28	-
MW-39					819.90		
	3/27/2017	-	5.42	-		814.48	-
	3/20/2017	-	5.12	-		814.79	-
	3/17/2017	-	4.57	-		815.33	-
	3/16/2017	-	5.25	-		814.65	-
	3/15/2017	-	4.45	-		815.45	-
	3/14/2017	-	4.77	-		815.13	-
	3/13/2017	-	5.09	-		814.82	-
	3/10/2017	-	4.79	-		815.11	-
	3/9/2017	-	4.98	-		814.92	-
	3/8/2017	-	4.61	-		815.29	-
	3/7/2017	-	4.25	-		815.65	-
	3/6/2017	-	4.32	-		815.59	-
	3/2/2017	-	4.99	-		814.91	-
MW-40					817.79		
	3/20/2017	-	2.72	-		815.07	-
	3/13/2017	-	3.88	-		813.91	-
	3/2/2017	-	2.91	-		814.88	-
MW-41					819.68		
	3/27/2017	-	4.16	-		815.52	-
	3/20/2017	-	4.18	-		815.51	-
	3/17/2017	-	4.17	-		815.51	-
	3/16/2017	-	4.25	-		815.43	-
	3/15/2017	-	4.22	-		815.46	-
	3/14/2017	-	4.08	-		815.60	-
	3/13/2017	-	3.70	-		815.99	-
	3/10/2017	-	4.14	-		815.54	-
	3/9/2017	-	4.23	-		815.45	-
	3/8/2017	-	4.23	-		815.45	-
	3/7/2017	-	4.15	-		815.53	-
	3/6/2017	-	4.23	-		815.46	-
	3/2/2017	-	4.30	-		815.38	-
MW-42					820.33		

**Table 5. Groundwater Elevation and Product Thickness Data**

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Location ID	Date	Depth to Product (ft BTOC)	Depth to Water (ft BTOC)	Product Thickness (ft)	Top of Casing Elevation <sup>1,2</sup> (ft amsl)	Groundwater Elevation (ft amsl)	Corrected <sup>3</sup> Groundwater Elevation (ft amsl)
MW-42 (cont'd)	3/20/2017	-	4.80	-		815.53	-
	3/13/2017	-	4.84	-		815.49	-
	3/2/2017	-	4.91	-		815.42	-
MW-44					853.67		
	3/13/2017	-	9.61	-		844.06	-
	3/2/2017	-	9.60	-		844.07	-
MW-44B					853.38		
	3/13/2017	-	15.50	-		837.88	-
	3/2/2017	-	15.56	-		837.82	-
MW-45					852.47		
	3/20/2017	-	14.22	-		838.25	-
	3/13/2017	-	14.16	-		838.31	-
	3/2/2017	-	14.14	-		838.33	-
MW-45B					852.85		
	3/20/2017	-	19.39	-		833.46	-
	3/13/2017	-	20.23	-		832.62	-
	3/2/2017	-	21.45	-		831.40	-
RS-01					849.13		
	3/27/2017	17.75	18.57	0.82		830.56	831.16
	3/24/2017	17.89	18.45	0.56		830.68	831.09
	3/20/2017	17.93	18.55	0.62		830.58	831.03
	3/16/2017	18.82	19.12	0.30		830.01	830.23
	3/13/2017	19.11	19.70	0.59		830.63	831.06
	3/6/2017	19.41	19.80	0.39		830.53	830.82
	3/2/2017	19.15	19.65	0.50		830.68	831.05
RS-02					849.52		
	3/27/2017	17.21	17.64	0.43		831.88	832.19
	3/24/2017	17.23	17.60	0.37		831.92	832.19
	3/20/2017	17.28	17.55	0.27		831.97	832.17
	3/16/2017	17.60	17.77	0.17		831.75	831.87
	3/13/2017	17.73	18.31	0.58		831.79	832.22
	3/6/2017	17.84	18.20	0.36		831.90	832.16
	3/2/2017	17.80	18.07	0.27		832.03	832.23
RS-04					851.44		
	3/27/2017	9.64	9.99	0.35		841.48	841.74
	3/24/2017	9.68	9.70	0.02		841.77	841.78
	3/20/2017	9.75	NO WATER	0.50		-	-
	3/16/2017	9.74	9.75	0.01		841.72	841.73
	3/13/2017	9.70	9.77	0.07		841.67	841.72
	3/6/2017	-	9.75	-		841.69	-
	3/2/2017	-	9.77	-		841.67	-
RS-05					848.31		
	3/27/2017	16.92	17.87	0.95		830.44	831.13
	3/24/2017	17.06	17.80	0.74		830.51	831.05
	3/20/2017	17.14	17.81	0.67		830.50	830.99
	3/16/2017	17.50	17.83	0.33		830.48	830.72
	3/13/2017	17.25	18.15	0.90		830.40	831.05
	3/6/2017	17.55	18.05	0.50		830.50	830.86
	3/2/2017	17.38	18.01	0.63		830.54	831.00
RS-06					849.47		

**Table 5. Groundwater Elevation and Product Thickness Data**

Plantation Pipe Line Company

Lewis Drive Remediation, Belton, South Carolina

Site ID #18693 "Kinder Morgan Belton Pipeline Release"

Location ID	Date	Depth to Product (ft BTOC)	Depth to Water (ft BTOC)	Product Thickness (ft)	Top of Casing Elevation <sup>1,2</sup> (ft amsl)	Groundwater Elevation (ft amsl)	Corrected <sup>3</sup> Groundwater Elevation (ft amsl)
RS-06 (cont'd)	3/27/2017	17.45	17.93	0.48		831.54	831.89
	3/24/2017	17.54	17.97	0.43		831.50	831.81
	3/20/2017	17.60	18.11	0.51		831.36	831.73
	3/16/2017	17.60	18.35	0.75		831.12	831.67
	3/13/2017	18.76	19.32	0.56		831.41	831.81
	3/6/2017	18.95	19.30	0.35		831.43	831.68
	3/2/2017	18.82	19.33	0.51		831.40	831.77
RS-07					855.08		
	3/27/2017	14.99	15.06	0.07		840.02	840.07
	3/24/2017	15.03	15.08	0.05		840.00	840.04
	3/20/2017	15.17	15.18	0.01		839.90	839.91
	3/16/2017	15.12	15.14	0.02		839.94	839.96
	3/13/2017	16.12	16.14	0.02		839.90	839.92
	3/6/2017	16.21	16.22	0.01		839.82	839.83
	3/2/2017	16.21	16.23	0.02		839.81	839.83
RS-08					854.00		
	3/27/2017	15.62	16.32	0.70		837.68	838.19
	3/24/2017	15.65	16.30	0.65		837.70	838.17
	3/20/2017	15.80	16.25	0.45		837.75	838.08
	3/16/2017	16.05	16.25	0.20		837.75	837.90
	3/13/2017	16.83	17.30	0.47		837.61	837.95
	3/6/2017	16.91	17.43	0.52		837.48	837.86
	3/2/2017	16.93	17.57	0.64		837.34	837.80
RS-09					847.60		
	3/27/2017	16.93	17.15	0.22		830.45	830.61
	3/24/2017	16.92	17.15	0.23		830.45	830.62
	3/20/2017	16.97	17.20	0.23		830.40	830.57
	3/16/2017	16.98	17.21	0.23		830.39	830.56
	3/13/2017	18.47	18.72	0.25		830.40	830.58
	3/6/2017	18.47	18.69	0.22		830.43	830.59
	3/2/2017	18.45	NO WATER	0.40		-	-
RS-10					847.42		
	3/27/2017	15.90	16.46	0.56		830.96	831.37
	3/24/2017	15.97	16.40	0.43		831.02	831.33
	3/20/2017	16.00	16.65	0.65		830.77	831.24
	3/16/2017	16.14	16.64	0.50		830.78	831.15
	3/13/2017	16.05	16.41	0.36		831.11	831.38
	3/6/2017	16.18	16.53	0.35		830.99	831.25
	3/2/2017	15.99	16.55	0.56		830.97	831.38
RS-11					847.44		
	3/27/2017	15.40	15.90	0.50		831.54	831.91
	3/24/2017	15.46	15.86	0.40		831.58	831.87
	3/20/2017	15.58	15.94	0.36		831.50	831.76
	3/16/2017	15.62	16.09	0.47		831.35	831.69
	3/13/2017	16.47	16.92	0.45		831.49	831.82
	3/6/2017	16.54	16.94	0.40		831.47	831.76
	3/2/2017	16.43	16.82	0.39		831.59	831.88
RS-12					847.74		
	3/27/2017	15.68	16.07	0.39		831.67	831.95
	3/24/2017	15.75	16.15	0.40		831.59	831.88

**Table 5. Groundwater Elevation and Product Thickness Data**

*Plantation Pipe Line Company*

*Lewis Drive Remediation, Belton, South Carolina*

*Site ID #18693 "Kinder Morgan Belton Pipeline Release"*

Location ID	Date	Depth to Product (ft BTOC)	Depth to Water (ft BTOC)	Product Thickness (ft)	Top of Casing Elevation <sup>1,2</sup> (ft amsl)	Groundwater Elevation (ft amsl)	Corrected <sup>3</sup> Groundwater Elevation (ft amsl)
RS-12 (cont'd)	3/20/2017	15.86	16.20	0.34		831.54	831.79
	3/16/2017	15.90	16.38	0.48		831.36	831.71
	3/13/2017	16.92	17.40	0.48		831.47	831.82
	3/6/2017	16.98	17.40	0.42		831.47	831.78
	3/2/2017	16.90	17.30	0.40		831.57	831.86
RS-13					846.61		
	3/27/2017	16.59	16.69	0.10		829.92	829.99
	3/24/2017	16.56	16.66	0.10		829.95	830.02
	3/20/2017	16.51	16.60	0.09		830.01	830.08
	3/16/2017	16.43	16.47	0.04		830.14	830.17
	3/13/2017	18.23	18.31	0.08		829.97	830.03
	3/6/2017	18.30	18.42	0.12		829.86	829.95
3/2/2017	18.14	18.25	0.11		830.03	830.11	
RS-14					845.97		
	3/27/2017	13.80	14.12	0.32		831.85	832.08
	3/24/2017	13.75	14.06	0.31		831.91	832.14
	3/20/2017	13.66	13.92	0.26		832.05	832.24
	3/16/2017	13.63	13.87	0.24		832.10	832.28
	3/13/2017	14.63	14.88	0.25		832.04	832.22
	3/6/2017	14.60	14.85	0.25		832.07	832.25
3/2/2017	14.30	14.60	0.30		832.32	832.54	
RS-15					846.41		
	3/27/2017	13.10	13.28	0.18		833.13	833.26
	3/24/2017	13.10	13.26	0.16		833.15	833.27
	3/20/2017	13.07	13.19	0.12		833.22	833.31
	3/16/2017	13.12	13.30	0.18		833.11	833.24
	3/13/2017	15.67	15.84	0.17		833.13	833.26
	3/6/2017	15.47	15.67	0.20		833.30	833.45
3/2/2017	15.25	15.44	0.19		833.53	833.67	
RS-16					845.44		
	3/27/2017	13.72	13.81	0.09		831.63	831.70
	3/24/2017	13.71	13.78	0.07		831.66	831.71
	3/20/2017	13.60	13.66	0.06		831.78	831.82
	3/16/2017	13.51	13.60	0.09		831.84	831.91
	3/13/2017	14.96	14.97	0.01		831.80	831.81
	3/6/2017	15.00	15.01	0.01		831.76	831.77
3/2/2017	14.78	14.87	0.09		831.90	831.97	
RS-17					844.22		
	3/27/2017	11.38	11.40	0.02		832.82	832.83
	3/24/2017	11.23	11.25	0.02		832.97	832.98
	3/20/2017	10.70	10.76	0.06		833.46	833.50
	3/16/2017	9.37	9.38	0.01		834.84	834.85
	3/13/2017	9.45	9.47	0.02		835.68	835.70
	3/6/2017	12.26	12.27	0.01		832.88	832.89
3/2/2017	11.16	11.17	0.01		833.98	833.99	
RS-18					847.89		
	3/27/2017	17.24	17.73	0.49		830.16	830.52
	3/24/2017	17.31	17.71	0.40		830.18	830.47
	3/16/2017	17.90	18.05	0.15		829.84	829.95

**Table 5. Groundwater Elevation and Product Thickness Data**

Plantation Pipe Line Company

Lewis Drive Remediation, Belton, South Carolina

Site ID #18693 "Kinder Morgan Belton Pipeline Release"

Location ID	Date	Depth to Product (ft BTOC)	Depth to Water (ft BTOC)	Product Thickness (ft)	Top of Casing Elevation <sup>1,2</sup> (ft amsl)	Groundwater Elevation (ft amsl)	Corrected <sup>3</sup> Groundwater Elevation (ft amsl)
RS-18 (cont'd)	3/13/2017	17.92	18.52	0.60		830.07	830.51
	3/6/2017	18.10	18.52	0.42		830.07	830.38
	3/2/2017	18.11	18.36	0.25		830.23	830.41
RS-19					850.40		
	3/27/2017	-	NM	-		-	-
	3/24/2017	-	NM	-		-	-
	3/20/2017	-	NM	-		-	-
	3/16/2017	-	NM	-		-	-
	3/13/2017	-	NM	-		-	-
	3/6/2017	-	NM	-		-	-
	3/2/2017	-	NM	-		-	-
RS-20					842.69		
	3/27/2017	-	10.51	-		832.18	-
	3/24/2017	-	10.51	-		832.18	-
	3/20/2017	-	10.54	-		832.15	-
	3/16/2017	-	10.54	-		832.15	-
	3/13/2017	-	11.41	-		832.08	-
	3/6/2017	-	11.40	-		832.09	-
	3/2/2017	-	11.40	-		832.09	-
RT-1A					854.06		
	3/27/2017	16.10	16.32	0.22		837.74	837.90
	3/24/2017	16.11	16.39	0.28		837.67	837.87
	3/20/2017	16.22	16.43	0.21		837.63	837.78
	3/16/2017	16.42	16.60	0.18		837.46	837.59
	3/13/2017	18.47	NO WATER	2.42		-	-
	3/6/2017	18.55	18.96	0.41		837.25	837.55
	3/2/2017	18.60	19.01	0.41		837.20	837.50
RT-1B					854.15		
	3/27/2017	16.05	16.27	0.22		837.88	838.04
	3/24/2017	16.07	16.34	0.27		837.81	838.01
	3/20/2017	16.18	16.35	0.17		837.80	837.92
	3/16/2017	16.38	16.55	0.17		837.60	837.72
	3/13/2017	19.43	19.75	0.32		837.55	837.78
	3/6/2017	19.52	20.00	0.48		837.30	837.65
	3/2/2017	19.56	19.99	0.43		837.31	837.62
RT-1C					854.55		
	3/27/2017	16.50	16.73	0.23		837.82	837.99
	3/24/2017	16.50	16.77	0.27		837.78	837.98
	3/20/2017	16.64	16.85	0.21		837.70	837.85
	3/16/2017	16.84	17.00	0.16		837.55	837.67
	3/13/2017	19.61	19.91	0.30		837.11	837.33
	3/6/2017	19.69	20.18	0.49		836.84	837.19
	3/2/2017	19.74	20.15	0.41		836.87	837.17
RT-2A					817.48		
	3/27/2017	-	1.48	-		816.00	-
	3/24/2017	-	1.35	-		816.13	-
	3/20/2017	-	1.40	-		816.08	-
	3/16/2017	-	1.15	-		816.33	-
	3/13/2017	2.01	2.02	0.01		816.29	816.30
	3/6/2017	-	2.46	-		815.85	-

**Table 5. Groundwater Elevation and Product Thickness Data**

*Plantation Pipe Line Company*

*Lewis Drive Remediation, Belton, South Carolina*

*Site ID #18693 "Kinder Morgan Belton Pipeline Release"*

Location ID	Date	Depth to Product (ft BTOC)	Depth to Water (ft BTOC)	Product Thickness (ft)	Top of Casing Elevation <sup>1,2</sup> (ft amsl)	Groundwater Elevation (ft amsl)	Corrected <sup>3</sup> Groundwater Elevation (ft amsl)
RT-2A (cont'd)	3/2/2017	-	2.37	-		815.94	-
RT-2B					817.61		
	3/27/2017	1.54	1.56	0.02		816.05	816.06
	3/24/2017	1.42	1.44	0.02		816.17	816.18
	3/20/2017	1.55	1.56	0.01		816.05	816.06
	3/16/2017	1.30	1.32	0.02		816.29	816.30
	3/13/2017	2.64	2.68	0.04		816.24	816.27
	3/6/2017	3.09	3.12	0.03		815.80	815.82
	3/2/2017	2.98	3.02	0.04		815.90	815.93
RT-2C					818.06		
	3/27/2017	2.00	2.02	0.02		816.04	816.05
	3/24/2017	1.95	1.96	0.01		816.10	816.11
	3/20/2017	2.95	2.96	0.01		815.10	815.11
	3/16/2017	2.70	2.71	0.01		815.35	815.36
	3/13/2017	2.40	2.41	0.01		816.61	816.61
	3/6/2017	-	2.85	-		816.17	-
	3/2/2017	-	2.75	-		816.27	-
RT-2D					818.12		
	3/27/2017	2.15	2.16	0.01		815.96	815.97
	3/24/2017	2.05	2.06	0.01		816.06	816.07
	3/20/2017	2.06	2.07	0.01		816.05	816.06
	3/16/2017	1.80	1.83	0.03		816.29	816.31
	3/13/2017	3.24	3.26	0.02		816.31	816.32
	3/6/2017	-	3.68	-		815.89	-
	3/2/2017	-	3.58	-		815.99	-
RT-2E					818.25		
	3/27/2017	2.20	2.21	0.01		816.04	816.05
	3/24/2017	2.10	2.11	0.01		816.14	816.15
	3/20/2017	2.17	2.18	0.01		816.07	816.08
	3/16/2017	1.98	1.99	0.01		816.26	816.27
	3/13/2017	3.04	3.05	0.01		816.35	816.36
	3/6/2017	-	3.50	-		815.90	-
	3/2/2017	-	3.40	-		816.00	-
RT-2F					818.57		
	3/27/2017	2.55	2.56	0.01		816.01	816.02
	3/24/2017	2.45	2.46	0.01		816.11	816.12
	3/20/2017	2.50	2.51	0.01		816.06	816.07
	3/16/2017	2.28	2.29	0.01		816.28	816.29
	3/13/2017	2.87	2.88	0.01		816.64	816.64
	3/6/2017	-	3.34	-		816.18	-
	3/2/2017	3.21	3.22	0.01		816.30	816.30
RT-2G					820.07		
	3/27/2017	3.58	3.59	0.01		816.48	816.49
	3/24/2017	2.05	2.06	0.01		818.01	818.02
	3/20/2017	3.30	3.31	0.01		816.76	816.77
	3/16/2017	3.27	3.28	0.01		816.79	816.80
	3/13/2017	3.52	3.53	0.01		816.78	816.79
	3/6/2017	-	3.30	-		817.01	-
	3/2/2017	-	3.24	-		817.07	-
RT-2H					822.17		



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RT-2H (cont'd)	3/27/2017	-	NM	-	-	-	-
	3/24/2017	-	NM	-	-	-	-
	3/20/2017	-	NM	-	-	-	-
	3/16/2017	-	NM	-	-	-	-
	3/13/2017	-	NM	-	-	-	-
	3/6/2017	-	NM	-	-	-	-
	3/2/2017	-	NM	-	-	-	-
RT-2I					819.51		
	3/27/2017	-	3.35	-		816.16	-
	3/24/2017	3.19	3.21	0.02		816.30	816.31
	3/20/2017	3.15	3.16	0.01		816.35	816.36
	3/16/2017	3.15	3.16	0.01		816.35	816.36
	3/13/2017	3.29	3.30	0.01		816.21	816.22
	3/6/2017	-	3.09	-		816.42	-
3/2/2017	2.96	2.97	0.01		816.54	816.55	
RT-2J					817.63		
	3/27/2017	2.08	2.09	0.01		815.54	815.55
	3/24/2017	0.90	0.91	0.01		816.72	816.73
	3/20/2017	1.80	1.81	0.01		815.82	815.83
	3/16/2017	1.76	1.77	0.01		815.86	815.87
	3/13/2017	1.99	2.00	0.01		816.38	816.39
	3/6/2017	2.47	2.48	0.01		815.90	815.91
3/2/2017	2.02	2.05	0.03		816.33	816.36	
RT-2K					817.40		
	3/27/2017	2.83	2.84	0.01		814.56	814.57
	3/24/2017	1.28	1.30	0.02		816.10	816.11
	3/20/2017	1.34	1.36	0.02		816.04	816.05
	3/16/2017	1.36	1.39	0.03		816.01	816.03
	3/13/2017	1.30	1.34	0.04		816.12	816.15
	3/6/2017	2.86	2.87	0.01		814.59	814.60
3/2/2017	1.08	1.10	0.02		816.36	816.37	
RT-2L					819.54		
	3/27/2017	3.08	3.12	0.04		816.42	816.45
	3/24/2017	2.60	2.70	0.10		816.84	816.91
	3/20/2017	2.78	2.87	0.09		816.67	816.74
	3/16/2017	2.60	2.70	0.10		816.84	816.91
	3/13/2017	3.47	3.60	0.13		816.78	816.87
	3/6/2017	4.14	4.20	0.06		816.18	816.22
3/2/2017	4.24	4.36	0.12		816.02	816.10	
RW-01					851.92		
	3/27/2017	15.79	15.80	0.01		836.12	836.13
	3/24/2017	15.73	15.74	0.01		836.18	836.19
	3/20/2017	15.22	15.24	0.02		836.68	836.70
	3/16/2017	14.31	14.32	0.01		837.60	837.61
	3/13/2017	15.51	15.52	0.01		836.40	836.41
	3/6/2017	-	15.36	-		836.56	-
3/2/2017	14.95	14.96	0.01		836.96	836.97	
RW-02					852.69		
	3/27/2017	25.56	25.64	0.08		827.05	827.11
	3/24/2017	25.61	25.62	0.01		827.07	827.08

**Table 5. Groundwater Elevation and Product Thickness Data**

*Plantation Pipe Line Company*

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Location ID	Date	Depth to Product (ft BTOC)	Depth to Water (ft BTOC)	Product Thickness (ft)	Top of Casing Elevation <sup>1,2</sup> (ft amsl)	Groundwater Elevation (ft amsl)	Corrected <sup>3</sup> Groundwater Elevation (ft amsl)
RW-02 (cont'd)	3/20/2017	25.61	NO WATER	0.11		-	-
	3/16/2017	25.64	25.65	0.01		827.04	827.05
	3/13/2017	-	25.25	-		827.44	-
	3/6/2017	-	25.25	-		827.44	-
	3/2/2017	-	25.25	-		827.44	-
RW-03					852.34		
	3/27/2017	25.62	25.63	0.01		826.71	826.72
	3/24/2017	25.56	25.65	0.09		826.69	826.75
	3/20/2017	-	25.65	-		826.69	-
	3/16/2017	25.71	25.73	0.02		826.61	826.62
	3/13/2017	25.65	25.66	0.01		826.68	826.69
	3/6/2017	25.79	25.80	0.01		826.54	826.55
	3/2/2017	25.75	25.76	0.01		826.58	826.59
RW-04					853.93		
	3/27/2017	31.39	32.27	0.88		821.66	822.30
	3/24/2017	31.43	32.34	0.91		821.59	822.26
	3/20/2017	31.55	32.40	0.85		821.53	822.15
	3/16/2017	31.63	32.49	0.86		821.44	822.07
	3/13/2017	31.68	32.60	0.92		821.33	822.00
	3/6/2017	31.84	32.90	1.06		821.03	821.81
	3/2/2017	31.80	32.90	1.10		821.03	821.84
RW-05					853.53		
	3/27/2017	34.05	34.40	0.35		819.13	819.39
	3/24/2017	34.08	34.40	0.32		819.13	819.37
	3/20/2017	34.14	34.40	0.26		819.13	819.32
	3/16/2017	34.14	34.38	0.24		819.15	819.33
	3/13/2017	34.34	34.60	0.26		818.93	819.12
	3/6/2017	34.75	35.05	0.30		818.48	818.70
	3/2/2017	34.77	34.93	0.16		818.60	818.72
RW-06					846.21		
	3/27/2017	27.98	28.00	0.02		818.21	818.22
	3/24/2017	27.72	27.73	0.01		818.48	818.49
	3/20/2017	27.82	27.83	0.01		818.38	818.39
	3/16/2017	27.90	27.93	0.03		818.28	818.30
	3/13/2017	28.15	28.17	0.02		818.04	818.05
	3/6/2017	28.50	28.60	0.10		817.61	817.68
	3/2/2017	28.50	28.55	0.05		817.66	817.69
RW-07					843.19		
	3/27/2017	23.99	26.12	2.13		817.07	818.63
	3/24/2017	23.45	25.25	1.80		817.94	819.26
	3/20/2017	23.90	25.85	1.95		817.34	818.77
	3/16/2017	23.89	25.73	1.84		817.46	818.81
	3/13/2017	24.03	26.15	2.12		817.04	818.59
	3/6/2017	24.35	26.45	2.10		816.74	818.27
	3/2/2017	24.32	26.50	2.18		816.69	818.28
RW-08					835.48		
	3/27/2017	17.74	18.47	0.73		817.01	817.54
	3/24/2017	16.58	17.15	0.57		818.33	818.74
	3/20/2017	17.30	18.39	1.09		817.09	817.88
	3/16/2017	17.61	17.96	0.35		817.52	817.77

**Table 5. Groundwater Elevation and Product Thickness Data**

*Plantation Pipe Line Company*

*Lewis Drive Remediation, Belton, South Carolina*

*Site ID #18693 "Kinder Morgan Belton Pipeline Release"*

Location ID	Date	Depth to Product (ft BTOC)	Depth to Water (ft BTOC)	Product Thickness (ft)	Top of Casing Elevation <sup>1,2</sup> (ft amsl)	Groundwater Elevation (ft amsl)	Corrected <sup>3</sup> Groundwater Elevation (ft amsl)
RW-08 (cont'd)	3/13/2017	17.80	18.55	0.75		816.93	817.48
	3/6/2017	17.60	19.03	1.43		816.45	817.49
	3/2/2017	17.57	19.07	1.50		816.41	817.50
RW-09					835.12		
	3/27/2017	14.59	16.38	1.79		818.74	820.05
	3/24/2017	14.02	14.70	0.68		820.42	820.92
	3/20/2017	13.88	14.64	0.76		820.48	821.04
	3/16/2017	14.24	16.00	1.76		819.12	820.41
	3/13/2017	14.42	16.40	1.98		818.72	820.17
	3/6/2017	14.75	16.47	1.72		818.65	819.91
	3/2/2017	14.75	16.48	1.73		818.64	819.91
RW-10					848.53		
	3/27/2017	17.64	21.72	4.08		826.81	829.79
	3/24/2017	17.77	21.48	3.71		827.05	829.76
	3/20/2017	17.83	21.70	3.87		826.83	829.66
	3/16/2017	18.40	21.05	2.65		827.48	829.42
	3/13/2017	17.78	21.60	3.82		826.93	829.72
	3/6/2017	17.92	21.79	3.87		826.74	829.57
	3/2/2017	17.82	21.84	4.02		826.69	829.63
RW-11					852.97		
	3/27/2017	13.90	15.10	1.20		837.87	838.74
	3/24/2017	13.92	15.10	1.18		837.87	838.73
	3/20/2017	13.97	15.10	1.13		837.87	838.69
	3/16/2017	14.06	15.23	1.17		837.74	838.59
	3/13/2017	14.09	15.30	1.21		837.67	838.55
	3/6/2017	14.22	15.50	1.28		837.47	838.40
	3/2/2017	14.24	14.25	0.01		838.72	838.72
RW-12					852.75		
	3/27/2017	15.62	15.77	0.15		836.98	837.09
	3/24/2017	15.72	15.74	0.02		837.01	837.02
	3/20/2017	15.77	15.80	0.03		836.95	836.97
	3/16/2017	15.85	15.86	0.01		836.89	836.90
	3/13/2017	15.91	15.93	0.02		836.82	836.83
	3/6/2017	15.98	16.00	0.02		836.75	836.76
	3/2/2017	15.96	15.97	0.01		836.78	836.79
RW-13					847.97		
	3/27/2017	17.90	19.98	2.08		827.99	829.51
	3/24/2017	18.02	19.86	1.84		828.11	829.45
	3/20/2017	18.05	20.45	2.40		827.52	829.27
	3/16/2017	18.20	20.47	2.27		827.50	829.16
	3/13/2017	18.02	20.24	2.22		827.73	829.35
	3/6/2017	18.12	20.20	2.08		827.77	829.29
	3/2/2017	18.00	20.38	2.38		827.59	829.33
RW-14					827.54		
	3/27/2017	13.17	13.18	0.01		814.36	814.37
	3/24/2017	9.21	9.23	0.02		818.31	818.32
	3/20/2017	12.65	12.66	0.01		814.88	814.89
	3/16/2017	12.67	12.68	0.01		814.86	814.87
	3/13/2017	13.00	13.03	0.03		814.51	814.53
	3/6/2017	12.39	12.45	0.06		815.09	815.13

**Table 5. Groundwater Elevation and Product Thickness Data**

*Plantation Pipe Line Company*

*Lewis Drive Remediation, Belton, South Carolina*

*Site ID #18693 "Kinder Morgan Belton Pipeline Release"*

Location ID	Date	Depth to Product (ft BTOC)	Depth to Water (ft BTOC)	Product Thickness (ft)	Top of Casing Elevation <sup>1,2</sup> (ft amsl)	Groundwater Elevation (ft amsl)	Corrected <sup>3</sup> Groundwater Elevation (ft amsl)
RW-14 (cont'd)	3/2/2017	12.40	12.44	0.04		815.10	815.13
RW-15					851.64		
	3/27/2017	18.92	19.85	0.93		831.79	832.47
	3/24/2017	19.04	19.63	0.59		832.01	832.44
	3/20/2017	19.09	19.74	0.65		831.90	832.37
	3/16/2017	19.29	19.40	0.11		832.24	832.32
	3/13/2017	19.10	19.50	0.40		832.14	832.43
	3/6/2017	19.03	20.04	1.01		831.60	832.33
	3/2/2017	19.10	19.66	0.56		831.98	832.39
SW-01					812.82		
	3/2/2017	-	(0.90)	-		813.72	-
SW-02					808.65		
	3/2/2017	-	(1.53)	-		810.18	-
SW-03					815.09		
	3/2/2017	-	(1.62)	-		816.71	-
SW-05					838.75		
	3/2/2017	-	NM	-		-	-
SW-08					802.04		
	3/2/2017	-	(1.22)	-		803.26	-
SW-10					778.09		
	3/2/2017	-	(0.47)	-		778.56	-
TW-04R					852.64		
	3/2/2017	-	DRY	-		-	-
TW-05R					849.93		
	3/2/2017	-	7.95	-		841.98	-
TW-14R					853.37		
	3/2/2017	-	DRY	-		-	-
TW-15R					850.62		
	3/2/2017	-	DRY	-		-	-
TW-21					849.70		
	3/2/2017	-	5.88	-		843.82	-
TW-28					851.42		
	3/2/2017	24.50	26.15	1.65		825.27	826.48
TW-30					851.81		
	3/2/2017	-	DRY	-		-	-
TW-34					854.79		
	3/2/2017	-	22.30	-		832.49	-
TW-35					854.10		
	3/2/2017	-	23.67	-		830.43	-
TW-40					853.35		
	3/2/2017	-	29.45	-		823.90	-
TW-41					849.38		
	3/2/2017	-	29.40	-		819.98	-
TW-42					846.84		
	3/2/2017	-	DRY	-		-	-
TW-45					848.31		
	3/2/2017	29.00	30.57	1.57		817.74	818.88
TW-46					846.88		
	3/2/2017	-	NM	-		-	-
TW-55					845.93		

**Table 5. Groundwater Elevation and Product Thickness Data**

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*Lewis Drive Remediation, Belton, South Carolina*

*Site ID #18693 "Kinder Morgan Belton Pipeline Release"*

Location ID	Date	Depth to Product (ft BTOC)	Depth to Water (ft BTOC)	Product Thickness (ft)	Top of Casing Elevation <sup>1,2</sup> (ft amsl)	Groundwater Elevation (ft amsl)	Corrected <sup>3</sup> Groundwater Elevation (ft amsl)
TW-55 (cont'd)	3/2/2017	-	12.05	-		833.88	-
TW-59					834.78		
	3/27/2017	-	15.25	-		819.53	-
	3/20/2017	-	15.07	-		819.72	-
	3/13/2017	-	15.13	-		819.65	-
	3/10/2017	-	15.02	-		819.76	-
	3/9/2017	-	14.23	-		820.55	-
	3/8/2017	-	14.99	-		819.79	-
	3/7/2017	-	15.02	-		819.76	-
	3/6/2017	-	18.56	-		816.22	-
	3/2/2017	-	15.67	-		819.11	-
TW-60					828.03		
	3/27/2017	-	10.21	-		817.82	-
	3/20/2017	-	8.49	-		819.54	-
	3/13/2017	-	9.12	-		818.91	-
	3/10/2017	-	8.72	-		819.31	-
	3/9/2017	-	9.66	-		818.37	-
	3/8/2017	-	9.45	-		818.58	-
	3/7/2017	-	7.59	-		820.44	-
	3/6/2017	-	8.40	-		819.64	-
	3/2/2017	-	9.96	-		818.07	-
TW-64					845.88		
	3/2/2017	-	19.58	-		826.30	-
TW-65					845.62		
	3/2/2017	-	23.23	-		822.39	-
TW-66					820.31		
	3/27/2017	-	2.41	-		817.90	-
	3/20/2017	-	1.92	-		818.39	-
	3/13/2017	-	2.05	-		818.26	-
	3/10/2017	-	1.92	-		818.39	-
	3/9/2017	-	2.30	-		818.01	-
	3/8/2017	-	2.28	-		818.03	-
	3/7/2017	-	1.85	-		818.46	-
	3/6/2017	-	1.90	-		818.41	-
	3/2/2017	-	2.64	-		817.67	-
TW-67					852.71		
	3/27/2017	-	14.89	-		837.82	-
	3/20/2017	-	14.43	-		838.28	-
	3/13/2017	-	15.07	-		837.64	-
	3/10/2017	-	15.00	-		837.71	-
	3/9/2017	-	15.19	-		837.52	-
	3/8/2017	-	15.11	-		837.60	-
	3/7/2017	-	15.14	-		837.57	-
	3/6/2017	-	15.03	-		837.68	-
	3/2/2017	-	15.44	-		837.27	-
TW-68					846.45		
	3/2/2017	-	24.49	-		821.96	-
TW-69					840.27		
	3/2/2017	-	16.36	-		823.91	-
TW-70					841.95		

**Table 5. Groundwater Elevation and Product Thickness Data**

*Plantation Pipe Line Company*

*Lewis Drive Remediation, Belton, South Carolina*

*Site ID #18693 "Kinder Morgan Belton Pipeline Release"*

Location ID	Date	Depth to Product (ft BTOC)	Depth to Water (ft BTOC)	Product Thickness (ft)	Top of Casing Elevation <sup>1,2</sup> (ft amsl)	Groundwater Elevation (ft amsl)	Corrected <sup>3</sup> Groundwater Elevation (ft amsl)
TW-70 (cont'd)	3/2/2017	-	20.24	-		821.71	-
TW-73					850.53		
	3/27/2017	-	10.27	-		840.26	-
	3/20/2017	-	8.58	-		841.96	-
	3/13/2017	-	10.38	-		840.16	-
	3/10/2017	-	10.51	-		840.02	-
	3/9/2017	-	11.45	-		839.08	-
	3/8/2017	-	10.35	-		840.18	-
	3/7/2017	-	10.34	-		840.19	-
	3/6/2017	-	10.58	-		839.96	-
	3/2/2017	-	10.47	-		840.06	-
TW-76					852.44		
	3/2/2017	-	17.74	-		834.70	-
TW-81					849.43		
	3/2/2017	-	4.95	-		844.48	-
TW-82					849.64		
	3/2/2017	-	5.72	-		843.92	-
TW-83					850.44		
	3/2/2017	-	6.50	-		843.94	-
TW-84					851.22		
	3/2/2017	7.10	7.15	0.05		844.07	844.10
TW-85					843.49		
	3/2/2017	-	15.21	-		828.28	-
TW-86					853.10		
	3/2/2017	-	5.65	-		847.45	-
TW-87					852.25		
	3/2/2017	-	6.75	-		845.50	-
TW-90					845.43		
	3/2/2017	-	17.35	-		828.08	-
TW-94					840.58		
	3/2/2017	10.75	10.85	0.10		829.73	829.81
TW-96					840.40		
	3/2/2017	-	12.12	-		828.28	-

Notes:

1. Elevation of zero mark (ft amsl) for surface water staff gauges
2. "RS-" and "RT-" features were trimmed to less than 12 inches above ground surface on 3/14/2017. Only the resurveyed top of casing elevation after trimming is displayed. Groundwater elevation calculations are based on the true top of casing elevation at the time of gauging.
3. Calculated based on an oil:water density ratio of 0.73

amsl = above mean sea level

BTOC = below top of casing

ft = feet

NM = not measured

**Table 6. Analytical Results for Groundwater**

Lewis Drive Remediation, Belton, South Carolina

Site ID #18693 "Kinder Morgan Belton Pipeline Release"

Location	Sample ID	Sample Date	Analyte: Units	Benzene	Ethylbenzene	Toluene	Total Xylenes	1,2-DCA	MTBE	Naphthalene	EDB
				Benzene	Ethylbenzene	Toluene	Total Xylenes	1,2-DCA	MTBE	Naphthalene	EDB
MW-12	--	11/28/2016	--	FP	FP	FP	FP	FP	FP	FP	FP
	--	3/13/2017	--	FP	FP	FP	FP	FP	FP	FP	FP
MW-12B	MW-12B-113016	11/30/2016	µg/L	1 U	1 U	1 U	1 U	1 U	1 U	1 U	--
	MW-12B-031417	3/14/2017	µg/L	1 U	1 U	1 U	3 U	1 U	1 U	5 U	--
	MW-12B-031417-FD	3/14/2017	µg/L	1 U	1 U	1 U	3 U	1 U	1 U	5 U	--
	MW-12B-032017	3/20/2017	µg/L	1 U	1 U	1 U	3 U	1 U	1 U	5 U	--
MW-15	MW-15-120716	12/7/2016	µg/L	<b>3,680</b>	<b>139</b>	<b>422</b>	<b>2,280</b>	25 U	<b>188</b>	<b>43.8</b>	--
	MW-15-031417	3/14/2017	µg/L	<b>1,960</b>	<b>72</b>	<b>324</b>	<b>1,320</b>	25 U	<b>161</b>	125 U	--
	MW-15-031417-FD	3/14/2017	µg/L	<b>1,820</b>	<b>61</b>	<b>286</b>	<b>1,120</b>	25 U	<b>153</b>	125 U	--
	MW-15-032017	3/20/2017	µg/L	<b>3,390</b>	<b>103</b>	<b>505</b>	<b>2,460</b>	50 U	<b>194</b>	250 U	--
MW-15B	MW-15B-113016	11/30/2016	µg/L	<b>337</b>	<b>34</b>	<b>565</b>	<b>194</b>	5 U	<b>26.7</b>	<b>5</b>	--
	MW-15B-031417	3/14/2017	µg/L	<b>2,160</b>	<b>248</b>	<b>4,580</b>	<b>1,500</b>	100 U	<b>118</b>	500 U	--
	MW-15B-032017	3/20/2017	µg/L	<b>615</b>	<b>88.6</b>	<b>1,270</b>	<b>555</b>	25 U	<b>67.5</b>	125 U	--
MW-17	--	11/28/2016	--	NS	NS	NS	NS	NS	NS	NS	NS
	--	3/13/2017	--	NS	NS	NS	NS	NS	NS	NS	NS
MW-17B	MW-17B-120116	12/1/2016	µg/L	<b>9370</b>	<b>761</b>	<b>16900</b>	<b>4500</b>	100 U	<b>954</b>	<b>112</b>	--
	MW-17B-031317	3/13/2017	µg/L	<b>7350</b>	<b>770</b>	<b>14100</b>	<b>4510</b>	200 U	<b>944</b>	1,000 U	--
	MW-17B-032017	3/20/2017	µg/L	<b>10,700</b>	<b>1,360</b>	<b>21,400</b>	<b>7,910</b>	<b>323</b>	<b>1,210</b>	1,000 U	--
MW-19	--	11/28/2016	--	NS	NS	NS	NS	NS	NS	NS	NS
	--	3/13/2017	--	NS	NS	NS	NS	NS	NS	NS	NS
MW-20	--	11/28/2016	--	FP	FP	FP	FP	FP	FP	FP	FP
	--	3/13/2017	--	FP	FP	FP	FP	FP	FP	FP	FP
MW-21	MW-21-112916	11/29/2016	µg/L	1 U	1 U	1 U	1 U	1 U	1 U	1 U	--
	MW-21-031417	3/14/2017	µg/L	1 U	1 U	1 U	3 U	1 U	1 U	5 U	--
	MW-21-032117	3/21/2017	µg/L	1 U	1 U	1 U	3 U	1 U	1 U	5 U	--
MW-23	MW-23-120216	12/2/2016	µg/L	<b>450</b>	5 U	<b>14.6</b>	<b>336</b>	5 U	<b>46.4</b>	<b>5.9</b>	--
	MW-23-031317	3/13/2017	µg/L	<b>709</b>	5 U	<b>23.1</b>	<b>548</b>	5 U	<b>127</b>	25 U	--
	MW-23-032017	3/20/2017	µg/L	<b>642</b>	10 U	<b>12.7</b>	<b>579</b>	10 U	<b>108</b>	50 U	--
	MW-23-032017-FD	3/20/2017	µg/L	<b>620</b>	10 U	<b>12.0</b>	<b>548</b>	10 U	<b>110</b>	50 U	--
MW-23B	MW-23B-120216	12/2/2016	µg/L	1 U	<b>1.4</b>	<b>3.5</b>	<b>11.0</b>	1 U	1 U	<b>1.3</b>	--
	MW-23B-031317	3/13/2017	µg/L	1 U	<b>1.11</b>	<b>2.63</b>	<b>8.86</b>	1 U	1 U	5 U	--
	MW-23B-032017	3/20/2017	µg/L	1 U	<b>1.55</b>	<b>2.98</b>	<b>11.7</b>	1 U	1 U	5 U	--
MW-25	MW-25-012716	12/1/2016	µg/L	<b>675</b>	<b>30.2</b>	<b>15.3</b>	<b>619</b>	5 U	<b>5.9</b>	<b>29.7</b>	--
	MW-25-031417	3/14/2017	µg/L	<b>62.7</b>	<b>28.6</b>	<b>10.1</b>	<b>668</b>	10 U	10 U	50 U	--
	MW-25-032017	3/20/2017	µg/L	<b>604</b>	<b>20.4</b>	20 U	<b>680</b>	20 U	20 U	100 U	--
MW-25B	MW-25B-120116	12/1/2016	µg/L	1 U	1 U	1 U	1 U	1 U	1 U	1 U	--
	MW-25B-031417	3/14/2017	µg/L	1 U	1 U	1 U	3 U	1 U	1 U	5 U	--
	MW-25B-032017	3/20/2017	µg/L	1 U	1 U	1 U	3 U	1 U	1 U	5 U	--

**Table 6. Analytical Results for Groundwater**

Lewis Drive Remediation, Belton, South Carolina

Site ID #18693 "Kinder Morgan Belton Pipeline Release"

Location	Sample ID	Sample Date	Analyte: Units	Benzene	Ethylbenzene	Toluene	Total Xylenes	1,2-DCA	MTBE	Naphthalene	EDB
				Benzene	Ethylbenzene	Toluene	Total Xylenes	1,2-DCA	MTBE	Naphthalene	EDB
MW-26	MW-26-120116	12/1/2016	µg/L	1 U	1 U	2.3	1 U	1 U	1 U	1 U	--
	MW-26-031417	3/14/2017	µg/L	1 U	1 U	1 U	3 U	1 U	1 U	5 U	--
	MW-26-032017	3/20/2017	µg/L	1 U	1 U	1 U	3 U	1 U	1 U	5 U	--
MW-26B	MW-26B-120116	12/1/2016	µg/L	1 U	1 U	1 U	1.3	1 U	1 U	1 U	--
	MW-26B-031417	3/14/2017	µg/L	1 U	1 U	1 U	3 U	1 U	1 U	5 U	--
	MW-26-032017	3/20/2017	µg/L	1 U	1 U	1 U	3 U	1 U	1 U	5 U	--
MW-28	--	11/28/2016	--	NS	NS	NS	NS	NS	NS	NS	NS
	MW-28-031517	3/15/2017	--	1,120	68.9	3,350	1,370	50 U	50 U	250 U	
MW-29	MW-29-112916	11/29/2016	µg/L	1 U	1 U	1 U	1 U	1 U	1 U	1 U	--
	MW-29-031317	3/13/2017	µg/L	1 U	1 U	1 U	3 U	1 U	1 U	5 U	--
	MW-29-032017	3/20/2017	µg/L	1 U	1 U	1 U	3 U	1 U	1 U	5 U	--
MW-34	MW-34-031517	3/15/2017	--	978	33.0	143	218	10 U	157	50 U	
	MW-34-032017	3/20/2017	µg/L	801	10.0 U	113	305	10 U	149	50 U	
MW-35	MW-35-120116	12/1/2016	µg/L	1 U	1 U	1 U	1 U	1 U	1 U	1 U	--
	MW-35-031417	3/14/2017	µg/L	1 U	1 U	1 U	3 U	1 U	1 U	5 U	--
	MW-35-032017	3/20/2017	µg/L	1 U	1 U	1 U	3 U	1 U	1 U	5 U	--
MW-38	MW-38-113016	11/30/2016	µg/L	1 U	1 U	1 U	1 U	1 U	5.5	1 U	--
	MW-38-031417	3/14/2017	µg/L	1 U	1 U	1 U	3 U	1 U	9.14	5 U	--
	MW-36B-032017	3/20/2017	µg/L	1 U	1 U	1 U	3 U	1 U	7.55	5 U	--
MW-39	MW-39-120716	12/7/2016	µg/L	6,320	682	1,290	3,650	50 U	311	86	--
	MW-39-031417	3/14/2017	µg/L	6,370	431	2,200	3,700	10 U	199	117	--
	MW-39-032017	3/20/2017	µg/L	7,340	704	2,990	4,050	100 U	248	500 U	--
MW-40	MW-40-120716	12/7/2016	µg/L	6,730	588	7,460	3,390	50 U	373	64.8	--
	MW-40-031417	3/14/2017	µg/L	11,600	1,280	16,100	7,260	50 U	691	250 U	--
	MW-40-032017	3/20/2017	µg/L	12,300	1,330	19,600	7,500	200 U	654	1000 U	--
MW-41	MW-41-120716	12/7/2016	µg/L	212	2 U	2 U	155	2 U	6.7	5.6	--
	MW-41-031417	3/14/2017	µg/L	469	1.78	1 U	275	1 U	4.34	18.1	--
	MW-41-032017	3/20/2017	µg/L	424	2.62	1 U	342	1 U	1 U	16.9	--
MW-42	MW-42-120716	12/7/2016	µg/L	3.8	1 U	1 U	2.7	1 U	1 U	1 U	--
	MW-42-031417	3/14/2017	µg/L	19.3	1 U	1 U	3 U	1 U	1.12	5 U	--
	MW-42-032017	3/20/2017	µg/L	59.6	1 U	1 U	16.9	1 U	1.24	5 U	--
MW-45	--	3/13/2017	--	NS	NS	NS	NS	NS	NS	NS	NS
MW-45B	MW-45B-031317	3/13/2017	µg/L	1 U	1 U	1 U	3 U	1 U	1 U	5 U	--
	MW-45B-032017	3/20/2017	µg/L	1 U	1 U	1 U	3 U	1 U	1 U	5 U	--
RBSL <sup>a</sup> : µg/L				5.0	700	1,000	10,000	5.0	40	25	0.05

Notes:

<sup>a</sup> RBSL = Risk-based screening levels identified in South Carolina Underground Storage Tank Management Division Programmatic Quality Assurance Program Plan, Revision 3, Table D1 "RBSLs for Groundwater", May 2015



**Table 6. Analytical Results for Groundwater**

*Lewis Drive Remediation, Belton, South Carolina*

*Site ID #18693 "Kinder Morgan Belton Pipeline Release"*

Location	Sample ID	Sample Date	Units	Analyte:	Benzene	Ethylbenzene	Toluene	Total Xylenes	1,2-DCA	MTBE	Naphthalene	EDB
					Benzene	Ethylbenzene	Toluene	Total Xylenes	1,2-DCA	MTBE	Naphthalene	EDB

Samples analyzed by EPA Methods SW 8260B and 8011

µg/L = microgram(s) per liter

1,2-DCA = 1,2-dichloroethane

EDB = 1,2-dibromoethane

FP = sample not collected due to the presence of free product in the well

ID = identification

MTBE = methyl tertiary butyl ether

NS = sample not collected due to insufficient volume of water in well

U = analyte was not detected above the reported sample quantitation limit

**Bold indicates the analyte was detected above the method detection limit.**

Gray shading indicates the analyte exceeded RBSLs.

<sup>1</sup> The analyte was analyzed for, but was not detected above the laboratory reporting/quantitation limit. However, the laboratory reporting/quantitation limit is above the screening criteria. The actual absence or presence of this analyte between the screening criteria and the laboratory reporting/quantitation limit can not be determined

**Table 7. Analytical Results for Surface Water**

Lewis Drive Remediation, Belton, South Carolina

Site ID #18693 "Kinder Morgan Belton Pipeline Release"

Location	Sample ID	Date Collected	Analyte: Units	Benzene	Ethylbenzene	Toluene	m&p-Xylene	o-Xylene	Naphthalene	MTBE
SW-01	SW01-022817	2/28/2017	µg/L	<b>18.5</b>	<b>1.93</b>	<b>37.0</b>	<b>13.8</b>	<b>10.2</b>	5 U <sup>1</sup>	NA
	SW01-031517	3/15/2017	µg/L	<b>3.02</b>	1 U	<b>5.13</b>	<b>2.16</b>	<b>1.74</b>	5 U <sup>1</sup>	NA
	SW01-032117	3/21/2017	µg/L	1 U	1 U	<b>1.57</b>	2 U	1 U	5 U <sup>1</sup>	NA
SW-02	SW02-022817	2/28/2017	µg/L	<b>10.7</b>	1 U	<b>11.0</b>	<b>4.14</b>	<b>4.23</b>	5 U <sup>1</sup>	NA
	SW02-031517	3/15/2017	µg/L	<b>11.4</b>	1 U	<b>8.6</b>	<b>4.45</b>	<b>3.6</b>	5 U <sup>1</sup>	NA
	SW02-032117	3/21/2017	µg/L	<b>8.42</b>	1 U	<b>2.45</b>	<b>2.48</b>	<b>2.68</b>	5 U <sup>1</sup>	NA
SW-03	SW03-022817	2/28/2017	µg/L	1 U	1 U	1 U	2 U	1 U	5 U <sup>1</sup>	NA
	SW03-031517	3/15/2017	µg/L	1 U	1 U	1 U	2 U	1 U	5 U <sup>1</sup>	NA
	SW03-032117	3/21/2017	µg/L	1 U	1 U	1 U	2 U	1 U	5 U <sup>1</sup>	NA
SW-04	SW04-022817	2/28/2017	µg/L	1 U	1 U	<b>1.13</b>	2 U	1 U	5 U <sup>1</sup>	NA
	SW04-031517	3/15/2017	µg/L	1 U	1 U	<b>2.90</b>	2 U	1 U	5 U <sup>1</sup>	NA
	SW04-032117	3/21/2017	µg/L	1 U	1 U	<b>3.28</b>	2 U	1 U	5 U <sup>1</sup>	NA
SW-07	SW07-031517	3/15/2017	µg/L	1 U	1 U	1 U	2 U	1 U	5 U <sup>1</sup>	NA
	SW07-032117	3/21/2017	µg/L	1 U	1 U	1 U	2 U	1 U	5 U <sup>1</sup>	NA
SW-08	SW08-022817	2/28/2017	µg/L	1 U	1 U	1 U	2 U	1 U	5 U <sup>1</sup>	NA
	SW08-031517	3/15/2017	µg/L	1 U	1 U	1 U	2 U	1 U	5 U <sup>1</sup>	NA
	SW08-032117	3/21/2017	µg/L	1 U	1 U	1 U	2 U	1 U	5 U <sup>1</sup>	NA
SW-09	SW09-022817	2/28/2017	µg/L	1 U	1 U	1 U	2 U	1 U	5 U <sup>1</sup>	NA
	SW09-031517	3/15/2017	µg/L	1 U	1 U	1 U	2 U	1 U	5 U <sup>1</sup>	NA
	SW09-032117	3/21/2017	µg/L	1 U	1 U	1 U	2 U	1 U	5 U <sup>1</sup>	NA
SW-10	SW10-022817	2/28/2017	µg/L	1 U	1 U	1 U	2 U	1 U	5 U <sup>1</sup>	NA
	SW10-031517	3/15/2017	µg/L	1 U	1 U	1 U	2 U	1 U	5 U <sup>1</sup>	NA
	SW10-032117	3/21/2017	µg/L	1 U	1 U	1 U	2 U	1 U	5 U <sup>1</sup>	NA
SW-11	SW11-022817	2/28/2017	µg/L	1 U	1 U	1 U	2 U	1 U	5 U <sup>1</sup>	NA
	SW11-031517	3/15/2017	µg/L	1 U	1 U	1 U	2 U	1 U	5 U <sup>1</sup>	NA
	SW11-032117	3/21/2017	µg/L	1 U	1 U	1 U	2 U	1 U	5 U <sup>1</sup>	NA
SW-12	SW12-022817	2/28/2017	µg/L	<b>26.1</b>	<b>4.04</b>	<b>62.3</b>	<b>18.0</b>	<b>9.73</b>	5 U <sup>1</sup>	NA
	SW12-031517	3/15/2017	µg/L	<b>125</b>	<b>15.3</b>	<b>185</b>	<b>67.9</b>	<b>35.5</b>	5 U <sup>1</sup>	NA
	SW12-032117	3/21/2017	µg/L	<b>134</b>	<b>12.1</b>	<b>45.0</b>	<b>60.8</b>	<b>33.6</b>	5 U <sup>1</sup>	NA
SW-13	SW13-022817	2/28/2017	µg/L	1 U	1 U	1 U	2 U	1 U	5 U <sup>1</sup>	NA
	SW13-031517	3/15/2017	µg/L	1 U	1 U	1 U	2 U	1 U	5 U <sup>1</sup>	NA
	SW13-032117	3/21/2017	µg/L	1 U	1 U	1 U	2 U	1 U	5 U <sup>1</sup>	NA

**Table 7. Analytical Results for Surface Water**

Lewis Drive Remediation, Belton, South Carolina

Site ID #18693 "Kinder Morgan Belton Pipeline Release"

Location	Sample ID	Date Collected	Analyte: Units	Benzene	Ethylbenzene	Toluene	m&p-Xylene	o-Xylene	Naphthalene	MTBE
FP-01	FP01-022817	2/28/2017	µg/L	1 U	1 U	1 U	2 U	1 U	5 U <sup>1</sup>	NA
	FP01-031517	3/15/2017	µg/L	1 U	1 U	1 U	2 U	1 U	5 U <sup>1</sup>	NA
	FP-01-032117	3/21/2017	µg/L	1 U	1 U	1 U	2 U	1 U	5 U <sup>1</sup>	NA
FP-02	FP02-022817	2/28/2017	µg/L	1 U	1 U	1 U	2 U	1 U	5 U <sup>1</sup>	NA
	FP02-031517	3/15/2017	µg/L	1 U	1 U	1 U	2 U	1 U	5 U <sup>1</sup>	NA
	FP-02-032117	3/21/2017	µg/L	1 U	1 U	1 U	2 U	1 U	5 U <sup>1</sup>	NA
FP-03	FP03-022817	2/28/2017	µg/L	1 U	1 U	1 U	2 U	1 U	5 U <sup>1</sup>	NA
	FP03-031517	3/15/2017	µg/L	1 U	1 U	1 U	2 U	1 U	5 U <sup>1</sup>	NA
	FP-03-032117	3/21/2017	µg/L	1 U	1 U	1 U	2 U	1 U	5 U <sup>1</sup>	NA
Screening Value:			µg/L	2.2 <sup>a</sup>	530 <sup>a</sup>	1,000 <sup>a</sup>	190 <sup>b,c</sup>	190 <sup>b</sup>	0.17 <sup>b</sup>	14 <sup>b</sup>

Notes:

<sup>a</sup> South Carolina Department of Health and Environmental Control (SC DHEC) R.61-68, Water Classifications and Standards, Human Health for consumption of water and organism, June 22, 2012

<sup>b</sup> U.S. Environmental Protection Agency (EPA) Regional Screening Levels (RSLs). Tapwater. June 2015. RSLs based on hazard quotient (HQ) = 1 and cancer risk = 1 x 10<sup>-6</sup>

<sup>c</sup> RSL value for total xylenes used for m&p-Xylene

<sup>1</sup> The analyte was analyzed for, but was not detected above the laboratory reporting/quantitation limit. However, the laboratory reporting/quantitation limit is above the screening criteria. The actual absence or presence of this analyte between the screening criteria and the laboratory reporting/quantitation limit can not be determined.

Samples analyzed for volatile organic compounds by EPA method SW 8260B

ID = identification

J = estimated value between method detection limit and the reporting limit

MTBE = methyl tertiary butyl ether

NA = not analyzed

U = analyte was not detected above the reported sample quantitation limit

µg/L = microgram(s) per liter

**Bold indicates the analyte was detected above the laboratory reporting/quantitation limit.**

Gray shading indicates the analyte exceeded screening criteria.

# Groundwater Analytical Lab Reports

## CH2M Hill- Kinder Morgan- Atlanta, GA

Sample Delivery Group: L896427  
Samples Received: 03/16/2017  
Project Number: 684910.LD.RA.ST  
Description: Lewis Drive Site  
Site: LEWIS DR  
Report To: Bethany Garvey  
6600 Peachtree Dunwoody Road  
400 Embassy Row - Suite 600  
Atlanta, GA 30328

Entire Report Reviewed By:



Chris McCord  
Technical Service Representative

Results relate only to the items tested or calibrated and are reported as rounded values. This test report shall not be reproduced, except in full, without written approval of the laboratory. Where applicable, sampling conducted by ESC is performed per guidance provided in laboratory standard operating procedures: 060302, 060303, and 060304.



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<sup>4</sup> Cn: Case Narrative	4	
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# SAMPLE SUMMARY



## MW-28-031517 L896427-01 GW

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Volatile Organic Compounds (GC/MS) by Method 8260B	WG962005	50	03/23/17 08:42	03/23/17 08:42	DWR

Collected by PK/JM      Collected date/time 03/15/17 12:05      Received date/time 03/16/17 09:00

1 Cp

2 Tc

## MW-34-031517 L896427-02 GW

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Volatile Organic Compounds (GC/MS) by Method 8260B	WG962005	10	03/23/17 09:05	03/23/17 09:05	DWR

Collected by PK/JM      Collected date/time 03/15/17 12:20      Received date/time 03/16/17 09:00

3 Ss

4 Cn

5 Sr

## FB-01-031517 L896427-03 GW

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Volatile Organic Compounds (GC/MS) by Method 8260B	WG962005	1	03/23/17 09:27	03/23/17 09:27	DWR

Collected by PK/JM      Collected date/time 03/15/17 11:30      Received date/time 03/16/17 09:00

6 Qc

7 Gl

8 Al

## TB-01-031517 L896427-04 GW

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Volatile Organic Compounds (GC/MS) by Method 8260B	WG962005	1	03/23/17 06:25	03/23/17 06:25	DWR

Collected by PK/JM      Collected date/time 03/15/17 11:35      Received date/time 03/16/17 09:00

9 Sc



All sample aliquots were received at the correct temperature, in the proper containers, with the appropriate preservatives, and within method specified holding times. All MDL (LOD) and RDL (LOQ) values reported for environmental samples have been corrected for the dilution factor used in the analysis. All Method and Batch Quality Control are within established criteria except where addressed in this case narrative, a non-conformance form or properly qualified within the sample results. By my digital signature below, I affirm to the best of my knowledge, all problems/anomalies observed by the laboratory as having the potential to affect the quality of the data have been identified by the laboratory, and no information or data have been knowingly withheld that would affect the quality of the data.

Chris McCord  
Technical Service Representative

<sup>1</sup> Cp

<sup>2</sup> Tc

<sup>3</sup> Ss

<sup>4</sup> Cn

<sup>5</sup> Sr

<sup>6</sup> Qc

<sup>7</sup> Gl

<sup>8</sup> Al

<sup>9</sup> Sc





Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result ug/l	Qualifier	RDL ug/l	Dilution	Analysis date / time	Batch
Benzene	1120		50.0	50	03/23/2017 08:42	<a href="#">WG962005</a>
Toluene	3350		50.0	50	03/23/2017 08:42	<a href="#">WG962005</a>
Ethylbenzene	68.9		50.0	50	03/23/2017 08:42	<a href="#">WG962005</a>
Total Xylenes	1370		150	50	03/23/2017 08:42	<a href="#">WG962005</a>
Methyl tert-butyl ether	ND		50.0	50	03/23/2017 08:42	<a href="#">WG962005</a>
Naphthalene	ND		250	50	03/23/2017 08:42	<a href="#">WG962005</a>
1,2-Dichloroethane	ND		50.0	50	03/23/2017 08:42	<a href="#">WG962005</a>
<i>(S) Toluene-d8</i>	106		80.0-120		03/23/2017 08:42	<a href="#">WG962005</a>
<i>(S) Dibromofluoromethane</i>	90.7		76.0-123		03/23/2017 08:42	<a href="#">WG962005</a>
<i>(S) 4-Bromofluorobenzene</i>	97.0		80.0-120		03/23/2017 08:42	<a href="#">WG962005</a>

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc



Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result	Qualifier	RDL	Dilution	Analysis date / time	Batch
Benzene	978		10.0	10	03/23/2017 09:05	<a href="#">WG962005</a>
Toluene	143		10.0	10	03/23/2017 09:05	<a href="#">WG962005</a>
Ethylbenzene	33.0		10.0	10	03/23/2017 09:05	<a href="#">WG962005</a>
Total Xylenes	218		30.0	10	03/23/2017 09:05	<a href="#">WG962005</a>
Methyl tert-butyl ether	157		10.0	10	03/23/2017 09:05	<a href="#">WG962005</a>
Naphthalene	ND		50.0	10	03/23/2017 09:05	<a href="#">WG962005</a>
1,2-Dichloroethane	ND		10.0	10	03/23/2017 09:05	<a href="#">WG962005</a>
(S) Toluene-d8	106		80.0-120		03/23/2017 09:05	<a href="#">WG962005</a>
(S) Dibromofluoromethane	93.8		76.0-123		03/23/2017 09:05	<a href="#">WG962005</a>
(S) 4-Bromofluorobenzene	97.5		80.0-120		03/23/2017 09:05	<a href="#">WG962005</a>

- 1 Cp
- 2 Tc
- 3 Ss
- 4 Cn
- 5 Sr
- 6 Qc
- 7 Gl
- 8 Al
- 9 Sc



Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result	Qualifier	RDL	Dilution	Analysis date / time	Batch
Benzene	ND		1.00	1	03/23/2017 09:27	<a href="#">WG962005</a>
Toluene	ND		1.00	1	03/23/2017 09:27	<a href="#">WG962005</a>
Ethylbenzene	ND		1.00	1	03/23/2017 09:27	<a href="#">WG962005</a>
Total Xylenes	ND		3.00	1	03/23/2017 09:27	<a href="#">WG962005</a>
Methyl tert-butyl ether	ND		1.00	1	03/23/2017 09:27	<a href="#">WG962005</a>
Naphthalene	ND		5.00	1	03/23/2017 09:27	<a href="#">WG962005</a>
1,2-Dichloroethane	ND		1.00	1	03/23/2017 09:27	<a href="#">WG962005</a>
(S) Toluene-d8	105		80.0-120		03/23/2017 09:27	<a href="#">WG962005</a>
(S) Dibromofluoromethane	90.7		76.0-123		03/23/2017 09:27	<a href="#">WG962005</a>
(S) 4-Bromofluorobenzene	97.1		80.0-120		03/23/2017 09:27	<a href="#">WG962005</a>

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc



Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result	Qualifier	RDL	Dilution	Analysis date / time	Batch
Benzene	ND		1.00	1	03/23/2017 06:25	<a href="#">WG962005</a>
Toluene	ND		1.00	1	03/23/2017 06:25	<a href="#">WG962005</a>
Ethylbenzene	ND		1.00	1	03/23/2017 06:25	<a href="#">WG962005</a>
Total Xylenes	ND		3.00	1	03/23/2017 06:25	<a href="#">WG962005</a>
Methyl tert-butyl ether	ND		1.00	1	03/23/2017 06:25	<a href="#">WG962005</a>
Naphthalene	ND		5.00	1	03/23/2017 06:25	<a href="#">WG962005</a>
1,2-Dichloroethane	ND		1.00	1	03/23/2017 06:25	<a href="#">WG962005</a>
(S) Toluene-d8	106		80.0-120		03/23/2017 06:25	<a href="#">WG962005</a>
(S) Dibromofluoromethane	90.1		76.0-123		03/23/2017 06:25	<a href="#">WG962005</a>
(S) 4-Bromofluorobenzene	96.9		80.0-120		03/23/2017 06:25	<a href="#">WG962005</a>

- 1 Cp
- 2 Tc
- 3 Ss
- 4 Cn
- 5 Sr
- 6 Qc
- 7 Gl
- 8 Al
- 9 Sc



Method Blank (MB)

(MB) R3205436-3 03/23/17 06:02

Analyte	MB Result	MB Qualifier	MB MDL	MB RDL
	ug/l		ug/l	ug/l
Benzene	U		0.331	1.00
1,2-Dichloroethane	U		0.361	1.00
Ethylbenzene	U		0.384	1.00
Methyl tert-butyl ether	U		0.367	1.00
Naphthalene	U		1.00	5.00
Toluene	U		0.412	1.00
Xylenes, Total	U		1.06	3.00
(S) Toluene-d8	105			80.0-120
(S) Dibromofluoromethane	89.4			76.0-123
(S) 4-Bromofluorobenzene	96.9			80.0-120

<sup>1</sup> Cp

<sup>2</sup> Tc

<sup>3</sup> Ss

<sup>4</sup> Cn

<sup>5</sup> Sr

<sup>6</sup> Qc

<sup>7</sup> Gl

<sup>8</sup> Al

<sup>9</sup> Sc

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R3205436-1 03/23/17 04:54 • (LCSD) R3205436-2 03/23/17 05:17

Analyte	Spike Amount	LCS Result	LCSD Result	LCS Rec.	LCSD Rec.	Rec. Limits	LCS Qualifier	LCSD Qualifier	RPD	RPD Limits
	ug/l	ug/l	ug/l	%	%	%			%	%
Benzene	25.0	24.9	26.1	99.6	104	70.0-130			4.68	20
1,2-Dichloroethane	25.0	28.4	28.0	113	112	70.0-130			1.37	20
Ethylbenzene	25.0	20.3	21.5	81.4	86.0	70.0-130			5.52	20
Methyl tert-butyl ether	25.0	24.9	24.5	99.8	98.1	70.0-130			1.73	20
Naphthalene	25.0	25.0	25.2	100	101	70.0-130			0.750	20
Toluene	25.0	24.5	25.7	97.8	103	70.0-130			4.83	20
Xylenes, Total	75.0	62.9	65.9	83.9	87.9	70.0-130			4.66	20
(S) Toluene-d8				108	108	80.0-120				
(S) Dibromofluoromethane				92.1	91.6	76.0-123				
(S) 4-Bromofluorobenzene				96.0	93.7	80.0-120				

L896426-04 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L896426-04 03/23/17 07:11 • (MS) R3205436-4 03/23/17 09:50 • (MSD) R3205436-5 03/23/17 10:13

Analyte	Spike Amount	Original Result	MS Result	MSD Result	MS Rec.	MSD Rec.	Dilution	Rec. Limits	MS Qualifier	MSD Qualifier	RPD	RPD Limits
	ug/l	ug/l	ug/l	ug/l	%	%		%			%	%
Benzene	25.0	5900	9450	9350	142	138	100	54.3-133	J5	J5	1.03	20
1,2-Dichloroethane	25.0	ND	3270	3240	131	130	100	60.0-126	J5	J5	0.900	20
Ethylbenzene	25.0	ND	2220	2190	88.8	87.5	100	61.4-133			1.47	20
Methyl tert-butyl ether	25.0	ND	2890	2900	116	116	100	57.7-134			0.0500	20
Naphthalene	25.0	ND	2990	3070	120	123	100	58.0-135			2.76	25.5
Toluene	25.0	1040	4250	4160	128	125	100	61.4-130			2.20	20
Xylenes, Total	75.0	1090	8640	8580	101	99.9	100	63.3-131			0.700	20



L896426-04 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L896426-04 03/23/17 07:11 • (MS) R3205436-4 03/23/17 09:50 • (MSD) R3205436-5 03/23/17 10:13

Analyte	Spike Amount ug/l	Original Result ug/l	MS Result ug/l	MSD Result ug/l	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
(S) Toluene-d8					108	108		80.0-120				
(S) Dibromofluoromethane					93.3	93.2		76.0-123				
(S) 4-Bromofluorobenzene					95.9	96.5		80.0-120				

- 1 Cp
- 2 Tc
- 3 Ss
- 4 Cn
- 5 Sr
- 6 Qc
- 7 Gl
- 8 Al
- 9 Sc



Abbreviations and Definitions

SDG	Sample Delivery Group.
MDL	Method Detection Limit.
RDL	Reported Detection Limit.
ND	Not detected at the Reporting Limit (or MDL where applicable).
U	Not detected at the Reporting Limit (or MDL where applicable).
RPD	Relative Percent Difference.
Original Sample	The non-spiked sample in the prep batch used to determine the Relative Percent Difference (RPD) from a quality control sample. The Original Sample may not be included within the reported SDG.
(S)	Surrogate (Surrogate Standard) - Analytes added to every blank, sample, Laboratory Control Sample/Duplicate and Matrix Spike/Duplicate; used to evaluate analytical efficiency by measuring recovery. Surrogates are not expected to be detected in all environmental media.
Rec.	Recovery.

Qualifier	Description
J5	The sample matrix interfered with the ability to make any accurate determination; spike value is high.

<sup>1</sup> Cp

<sup>2</sup> Tc

<sup>3</sup> Ss

<sup>4</sup> Cn

<sup>5</sup> Sr

<sup>6</sup> Qc

<sup>7</sup> Gl

<sup>8</sup> Al

<sup>9</sup> Sc



ESC Lab Sciences is the only environmental laboratory accredited/certified to support your work nationwide from one location. One phone call, one point of contact, one laboratory. No other lab is as accessible or prepared to handle your needs throughout the country. Our capacity and capability from our single location laboratory is comparable to the collective totals of the network laboratories in our industry. The most significant benefit to our "one location" design is the design of our laboratory campus. The model is conducive to accelerated productivity, decreasing turn-around time, and preventing cross contamination, thus protecting sample integrity. Our focus on premium quality and prompt service allows us to be **YOUR LAB OF CHOICE**.  
 \* Not all certifications held by the laboratory are applicable to the results reported in the attached report.

## State Accreditations

Alabama	40660	Nevada	TN-03-2002-34
Alaska	UST-080	New Hampshire	2975
Arizona	AZ0612	New Jersey–NELAP	TN002
Arkansas	88-0469	New Mexico	TN00003
California	01157CA	New York	11742
Colorado	TN00003	North Carolina	Env375
Connecticut	PH-0197	North Carolina <sup>1</sup>	DW21704
Florida	E87487	North Carolina <sup>2</sup>	41
Georgia	NELAP	North Dakota	R-140
Georgia <sup>1</sup>	923	Ohio–VAP	CL0069
Idaho	TN00003	Oklahoma	9915
Illinois	200008	Oregon	TN200002
Indiana	C-TN-01	Pennsylvania	68-02979
Iowa	364	Rhode Island	221
Kansas	E-10277	South Carolina	84004
Kentucky <sup>1</sup>	90010	South Dakota	n/a
Kentucky <sup>2</sup>	16	Tennessee <sup>14</sup>	2006
Louisiana	AI30792	Texas	T 104704245-07-TX
Maine	TN0002	Texas <sup>5</sup>	LAB0152
Maryland	324	Utah	6157585858
Massachusetts	M-TN003	Vermont	VT2006
Michigan	9958	Virginia	109
Minnesota	047-999-395	Washington	C1915
Mississippi	TN00003	West Virginia	233
Missouri	340	Wisconsin	9980939910
Montana	CERT0086	Wyoming	A2LA
Nebraska	NE-OS-15-05		

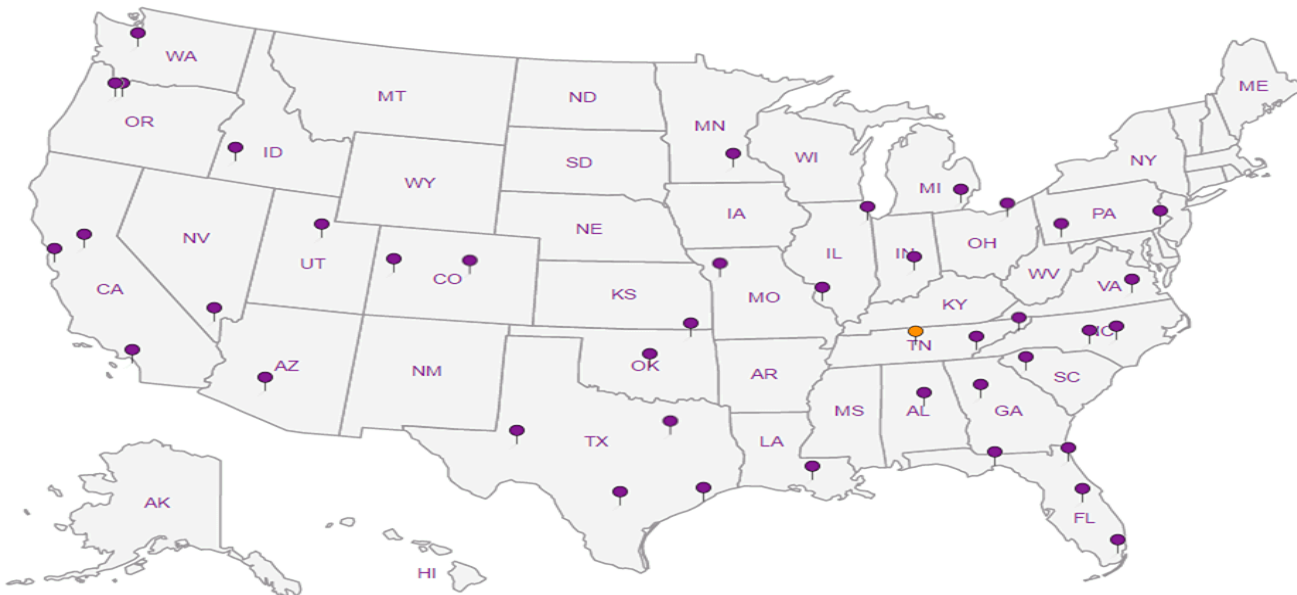
## Third Party & Federal Accreditations

A2LA – ISO 17025	1461.01	AIHA-LAP,LLC	100789
A2LA – ISO 17025 <sup>5</sup>	1461.02	DOD	1461.01
Canada	1461.01	USDA	S-67674
EPA–Crypto	TN00003		

<sup>1</sup> Drinking Water <sup>2</sup> Underground Storage Tanks <sup>3</sup> Aquatic Toxicity <sup>4</sup> Chemical/Microbiological <sup>5</sup> Mold <sup>n/a</sup> Accreditation not applicable

## Our Locations

ESC Lab Sciences has sixty-four client support centers that provide sample pickup and/or the delivery of sampling supplies. If you would like assistance from one of our support offices, please contact our main office. **ESC Lab Sciences performs all testing at our central laboratory.**





**CH2M Hill-Kinder Morgan- Atlanta, GA**  
 6600 Peachtree Dunwoody Road

Billing Information:  
 Accounts Payable  
 1000 Windward Concourse  
 Ste 450  
 Alpharetta, GA 30005

Report to:  
**Bethany Garvey**

Email To: [bethany.garvey@ch2m.com](mailto:bethany.garvey@ch2m.com)

Project Description: **Lewis Drive Site**

City/State Collected: **Belton, SC**

Phone: **770-604-9182**  
 Fax:

Client Project #  
**684910-LDRA-ST**

Lab Project #  
**KINCH2MGA-LEWIS12**

Collected by (print):  
**Paula Kramer**  
**Justine McLann**

Site/Facility ID #  
**Lewis Dr**

P.O. #

Collected by (signature):  
**Justine McLann**

**Rush?** (Lab MUST Be Notified)  
 Same Day  Five Day  
 Next Day  5 Day (Rad Only)  
 Two Day  10 Day (Rad Only)  
 Three Day

Quote #  
 Date Results Needed

Immediately Packed on Ice N  Y

Sample ID	Comp/Grab	Matrix *	Depth	Date	Time	No. of Cntrs	Pres Chk	Analysis / Container / Preservative
MW-28-031517	grab	GW	N/A	3/15/17	1205	3	X	V8260BTEXMNSC 40mlAmb-HCl
MW-34-031517	↓	GW	↓	↓	1220	3	X	V8260BTEXMNSC-TB 40mlAmb-HCl-Bik
FB-01-031517	↓	GW	↓	↓	1130	3	X	
TB-01-031517	grab	GW	N/A	3/15/17	1135	3	X	
		GW				3	X	
		GW				3	X	
		GW				3	X	
		GW				3	X	
		GW				3	X	
		GW				3	X	

\* Matrix:  
 SS - Soil AIR - Air F - Filter  
 GW - Groundwater B - Bioassay  
 WW - WasteWater  
 DW - Drinking Water  
 OT - Other

Remarks:  
 Samples returned via:  
 UPS  FedEx  Courier  \_\_\_\_\_  
 Tracking # \_\_\_\_\_

Sample Receipt Checklist:  
 COC Seal Present/Intact:  NF  Y  N  
 COC Signed/Accurate:  Y  N  
 Bottles arrive intact:  Y  N  
 Correct bottles used:  Y  N  
 Sufficient volume sent:  Y  N  
 If Applicable  
 VOA Zero Headspace:  Y  N  
 Preservation Correct/Checked:  Y  N

Relinquished by: (Signature)  
**Justine McLann**

Date: **3/15/17** Time: **11:00**

Received by: (Signature)

Trip Blank Received:  Yes  No  
 HA / MeOH  
 TBR

Relinquished by: (Signature)

Date: \_\_\_\_\_ Time: \_\_\_\_\_

Received by: (Signature)

Temp: **5<sup>m</sup> °C** Bottles Received: **9**

If preservation required by Login: Date/Time

Relinquished by: (Signature)

Date: \_\_\_\_\_ Time: \_\_\_\_\_

Received for lab by: (Signature)  
**Justin King**

Date: **3-16-17** Time: **9:00**

Hold: \_\_\_\_\_ Condition: **NCF / OK**

Analysis / Container / Preservative

Chain of Custody Page 1 of 1

L# **896427**  
**C130**

Acctnum: **KINCH2MGA**  
 Template: **T121318**  
 Prelogin: **P592452**  
 TSR: **526 - Chris McCord**  
 PB: **JH 3-2-17**

Shipped Via: **FedEX Ground**

Remarks	Sample # (lab only)
	-01
	-02
	-03
	-04

## CH2M Hill- Kinder Morgan- Atlanta, GA

Sample Delivery Group: L897220  
Samples Received: 03/21/2017  
Project Number: 684910.1D.RA.ST  
Description: Lewis Drive  
Site: LEWIS DR.  
Report To: Bethany Garvey  
6600 Peachtree Dunwoody Road  
400 Embassy Row - Suite 600  
Atlanta, GA 30328

Entire Report Reviewed By:

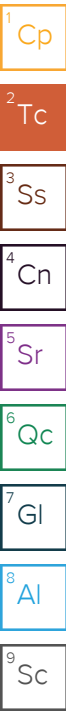


Chris McCord  
Technical Service Representative

Results relate only to the items tested or calibrated and are reported as rounded values. This test report shall not be reproduced, except in full, without written approval of the laboratory. Where applicable, sampling conducted by ESC is performed per guidance provided in laboratory standard operating procedures: 060302, 060303, and 060304.



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# SAMPLE SUMMARY



## MW-17B-032017 L897220-01 GW

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Collected by JM / MW				Collected date/time 03/20/17 12:45	Received date/time 03/21/17 09:00
Volatile Organic Compounds (GC/MS) by Method 8260B	WG964097	200	03/29/17 06:35	03/29/17 06:35	JHH

1 Cp

2 Tc

## MW-29-032017 L897220-02 GW

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Collected by JM / MW				Collected date/time 03/20/17 12:55	Received date/time 03/21/17 09:00
Volatile Organic Compounds (GC/MS) by Method 8260B	WG964097	1	03/25/17 10:45	03/25/17 10:45	BMB

3 Ss

4 Cn

5 Sr

## MW-45B-032017 L897220-03 GW

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Collected by JM / MW				Collected date/time 03/20/17 13:10	Received date/time 03/21/17 09:00
Volatile Organic Compounds (GC/MS) by Method 8260B	WG964097	1	03/25/17 10:58	03/25/17 10:58	BMB

6 Qc

7 Gl

8 Al

## MW-23-032017 L897220-04 GW

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Collected by JM / MW				Collected date/time 03/20/17 13:30	Received date/time 03/21/17 09:00
Volatile Organic Compounds (GC/MS) by Method 8260B	WG964097	10	03/25/17 11:12	03/25/17 11:12	BMB

9 Sc

## MW-23-032017-FD L897220-05 GW

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Collected by JM / MW				Collected date/time 03/20/17 13:35	Received date/time 03/21/17 09:00
Volatile Organic Compounds (GC/MS) by Method 8260B	WG964097	10	03/25/17 11:25	03/25/17 11:25	BMB

## MW-23B-032017 L897220-06 GW

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Collected by JM / MW				Collected date/time 03/20/17 13:45	Received date/time 03/21/17 09:00
Volatile Organic Compounds (GC/MS) by Method 8260B	WG964097	1	03/25/17 11:38	03/25/17 11:38	BMB

## MW-26-032017 L897220-07 GW

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Collected by JM / MW				Collected date/time 03/20/17 14:00	Received date/time 03/21/17 09:00
Volatile Organic Compounds (GC/MS) by Method 8260B	WG964097	1	03/25/17 11:52	03/25/17 11:52	BMB

## MW-26B-032017 L897220-08 GW

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Collected by JM / MW				Collected date/time 03/20/17 14:10	Received date/time 03/21/17 09:00
Volatile Organic Compounds (GC/MS) by Method 8260B	WG964097	1	03/25/17 12:05	03/25/17 12:05	BMB

# SAMPLE SUMMARY



## MW-15B-032017 L897220-09 GW

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Collected by JM / MW				Collected date/time 03/20/17 14:30	Received date/time 03/21/17 09:00
Volatile Organic Compounds (GC/MS) by Method 8260B	WG964097	25	03/25/17 12:19	03/25/17 12:19	BMB

1 Cp

2 Tc

## MW-15-032017 L897220-10 GW

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Collected by JM / MW				Collected date/time 03/20/17 14:45	Received date/time 03/21/17 09:00
Volatile Organic Compounds (GC/MS) by Method 8260B	WG964097	50	03/25/17 12:32	03/25/17 12:32	BMB

3 Ss

4 Cn

5 Sr

## MW-39-032017 L897220-11 GW

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Collected by JM / MW				Collected date/time 03/20/17 14:55	Received date/time 03/21/17 09:00
Volatile Organic Compounds (GC/MS) by Method 8260B	WG964097	100	03/25/17 12:45	03/25/17 12:45	BMB

6 Qc

7 Gl

8 Al

## MW-40-032017 L897220-12 GW

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Collected by JM / MW				Collected date/time 03/20/17 15:05	Received date/time 03/21/17 09:00
Volatile Organic Compounds (GC/MS) by Method 8260B	WG964097	200	03/25/17 12:59	03/25/17 12:59	BMB

9 Sc

## MW-41-032017 L897220-13 GW

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Collected by JM / MW				Collected date/time 03/20/17 15:15	Received date/time 03/21/17 09:00
Volatile Organic Compounds (GC/MS) by Method 8260B	WG964097	1	03/25/17 13:12	03/25/17 13:12	BMB
Volatile Organic Compounds (GC/MS) by Method 8260B	WG964097	20	03/29/17 06:58	03/29/17 06:58	JHH

## MW-42-032017 L897220-14 GW

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Collected by JM / MW				Collected date/time 03/20/17 15:25	Received date/time 03/21/17 09:00
Volatile Organic Compounds (GC/MS) by Method 8260B	WG964097	1	03/25/17 13:26	03/25/17 13:26	BMB

## MW-25B-032017 L897220-15 GW

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Collected by JM / MW				Collected date/time 03/20/17 15:35	Received date/time 03/21/17 09:00
Volatile Organic Compounds (GC/MS) by Method 8260B	WG964097	1	03/25/17 13:39	03/25/17 13:39	BMB

## MW-25-032017 L897220-16 GW

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Collected by JM / MW				Collected date/time 03/20/17 15:45	Received date/time 03/21/17 09:00
Volatile Organic Compounds (GC/MS) by Method 8260B	WG964097	20	03/25/17 13:52	03/25/17 13:52	BMB

# SAMPLE SUMMARY



## MW-35-032017 L897220-17 GW

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Collected by JM / MW				Collected date/time 03/20/17 15:55	Received date/time 03/21/17 09:00
Volatile Organic Compounds (GC/MS) by Method 8260B	WG964097	1	03/29/17 07:21	03/29/17 07:21	JHH

1 Cp

2 Tc

## MW-12B-032017 L897220-18 GW

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Collected by JM / MW				Collected date/time 03/20/17 16:05	Received date/time 03/21/17 09:00
Volatile Organic Compounds (GC/MS) by Method 8260B	WG964097	1	03/29/17 07:44	03/29/17 07:44	JHH

3 Ss

4 Cn

5 Sr

## FB-01-032017 L897220-19 GW

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Collected by JM / MW				Collected date/time 03/20/17 16:15	Received date/time 03/21/17 09:00
Volatile Organic Compounds (GC/MS) by Method 8260B	WG964097	1	03/29/17 08:07	03/29/17 08:07	JHH

6 Qc

7 Gl

8 Al

## TB-01-032017 L897220-20 GW

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Collected by JM / MW				Collected date/time 03/20/17 16:20	Received date/time 03/21/17 09:00
Volatile Organic Compounds (GC/MS) by Method 8260B	WG964097	1	03/25/17 10:31	03/25/17 10:31	BMB

9 Sc

## MW-34-032017 L897220-21 GW

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Collected by JM / MW				Collected date/time 03/20/17 16:30	Received date/time 03/21/17 09:00
Volatile Organic Compounds (GC/MS) by Method 8260B	WG964354	10	03/28/17 00:44	03/28/17 00:44	ACG

## MW-38-032017 L897220-22 GW

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Collected by JM / MW				Collected date/time 03/20/17 16:40	Received date/time 03/21/17 09:00
Volatile Organic Compounds (GC/MS) by Method 8260B	WG964354	1	03/28/17 00:57	03/28/17 00:57	ACG



All sample aliquots were received at the correct temperature, in the proper containers, with the appropriate preservatives, and within method specified holding times. All MDL (LOD) and RDL (LOQ) values reported for environmental samples have been corrected for the dilution factor used in the analysis. All Method and Batch Quality Control are within established criteria except where addressed in this case narrative, a non-conformance form or properly qualified within the sample results. By my digital signature below, I affirm to the best of my knowledge, all problems/anomalies observed by the laboratory as having the potential to affect the quality of the data have been identified by the laboratory, and no information or data have been knowingly withheld that would affect the quality of the data.

Chris McCord  
 Technical Service Representative

<sup>1</sup> Cp

<sup>2</sup> Tc

<sup>3</sup> Ss

<sup>4</sup> Cn

<sup>5</sup> Sr

<sup>6</sup> Qc

<sup>7</sup> Gl

<sup>8</sup> Al

<sup>9</sup> Sc





Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result ug/l	Qualifier	RDL ug/l	Dilution	Analysis date / time	Batch
Benzene	10700		200	200	03/29/2017 06:35	<a href="#">WG964097</a>
Toluene	21400		200	200	03/29/2017 06:35	<a href="#">WG964097</a>
Ethylbenzene	1360		200	200	03/29/2017 06:35	<a href="#">WG964097</a>
Total Xylenes	7910		600	200	03/29/2017 06:35	<a href="#">WG964097</a>
Methyl tert-butyl ether	1210		200	200	03/29/2017 06:35	<a href="#">WG964097</a>
Naphthalene	ND		1000	200	03/29/2017 06:35	<a href="#">WG964097</a>
1,2-Dichloroethane	323		200	200	03/29/2017 06:35	<a href="#">WG964097</a>
<i>(S) Toluene-d8</i>	102		80.0-120		03/29/2017 06:35	<a href="#">WG964097</a>
<i>(S) Dibromofluoromethane</i>	106		76.0-123		03/29/2017 06:35	<a href="#">WG964097</a>
<i>(S) 4-Bromofluorobenzene</i>	104		80.0-120		03/29/2017 06:35	<a href="#">WG964097</a>

- 1 Cp
- 2 Tc
- 3 Ss
- 4 Cn
- 5 Sr
- 6 Qc
- 7 Gl
- 8 Al
- 9 Sc





Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result	Qualifier	RDL	Dilution	Analysis date / time	Batch
Benzene	ND		1.00	1	03/25/2017 10:45	<a href="#">WG964097</a>
Toluene	ND		1.00	1	03/25/2017 10:45	<a href="#">WG964097</a>
Ethylbenzene	ND		1.00	1	03/25/2017 10:45	<a href="#">WG964097</a>
Total Xylenes	ND		3.00	1	03/25/2017 10:45	<a href="#">WG964097</a>
Methyl tert-butyl ether	ND		1.00	1	03/25/2017 10:45	<a href="#">WG964097</a>
Naphthalene	ND		5.00	1	03/25/2017 10:45	<a href="#">WG964097</a>
1,2-Dichloroethane	ND		1.00	1	03/25/2017 10:45	<a href="#">WG964097</a>
(S) Toluene-d8	105		80.0-120		03/25/2017 10:45	<a href="#">WG964097</a>
(S) Dibromofluoromethane	90.8		76.0-123		03/25/2017 10:45	<a href="#">WG964097</a>
(S) 4-Bromofluorobenzene	93.0		80.0-120		03/25/2017 10:45	<a href="#">WG964097</a>

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc



Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result	Qualifier	RDL	Dilution	Analysis date / time	Batch
Benzene	ND		1.00	1	03/25/2017 10:58	<a href="#">WG964097</a>
Toluene	ND		1.00	1	03/25/2017 10:58	<a href="#">WG964097</a>
Ethylbenzene	ND		1.00	1	03/25/2017 10:58	<a href="#">WG964097</a>
Total Xylenes	ND		3.00	1	03/25/2017 10:58	<a href="#">WG964097</a>
Methyl tert-butyl ether	ND		1.00	1	03/25/2017 10:58	<a href="#">WG964097</a>
Naphthalene	ND		5.00	1	03/25/2017 10:58	<a href="#">WG964097</a>
1,2-Dichloroethane	ND		1.00	1	03/25/2017 10:58	<a href="#">WG964097</a>
(S) Toluene-d8	106		80.0-120		03/25/2017 10:58	<a href="#">WG964097</a>
(S) Dibromofluoromethane	92.4		76.0-123		03/25/2017 10:58	<a href="#">WG964097</a>
(S) 4-Bromofluorobenzene	95.6		80.0-120		03/25/2017 10:58	<a href="#">WG964097</a>

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc



Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result	Qualifier	RDL	Dilution	Analysis date / time	Batch
Benzene	642		10.0	10	03/25/2017 11:12	<a href="#">WG964097</a>
Toluene	12.7		10.0	10	03/25/2017 11:12	<a href="#">WG964097</a>
Ethylbenzene	ND		10.0	10	03/25/2017 11:12	<a href="#">WG964097</a>
Total Xylenes	579		30.0	10	03/25/2017 11:12	<a href="#">WG964097</a>
Methyl tert-butyl ether	108		10.0	10	03/25/2017 11:12	<a href="#">WG964097</a>
Naphthalene	ND		50.0	10	03/25/2017 11:12	<a href="#">WG964097</a>
1,2-Dichloroethane	ND		10.0	10	03/25/2017 11:12	<a href="#">WG964097</a>
<i>(S) Toluene-d8</i>	106		80.0-120		03/25/2017 11:12	<a href="#">WG964097</a>
<i>(S) Dibromofluoromethane</i>	88.4		76.0-123		03/25/2017 11:12	<a href="#">WG964097</a>
<i>(S) 4-Bromofluorobenzene</i>	95.9		80.0-120		03/25/2017 11:12	<a href="#">WG964097</a>

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc



Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result	Qualifier	RDL	Dilution	Analysis date / time	Batch
Benzene	620		10.0	10	03/25/2017 11:25	<a href="#">WG964097</a>
Toluene	12.0		10.0	10	03/25/2017 11:25	<a href="#">WG964097</a>
Ethylbenzene	ND		10.0	10	03/25/2017 11:25	<a href="#">WG964097</a>
Total Xylenes	548		30.0	10	03/25/2017 11:25	<a href="#">WG964097</a>
Methyl tert-butyl ether	110		10.0	10	03/25/2017 11:25	<a href="#">WG964097</a>
Naphthalene	ND		50.0	10	03/25/2017 11:25	<a href="#">WG964097</a>
1,2-Dichloroethane	ND		10.0	10	03/25/2017 11:25	<a href="#">WG964097</a>
(S) Toluene-d8	106		80.0-120		03/25/2017 11:25	<a href="#">WG964097</a>
(S) Dibromofluoromethane	89.4		76.0-123		03/25/2017 11:25	<a href="#">WG964097</a>
(S) 4-Bromofluorobenzene	97.1		80.0-120		03/25/2017 11:25	<a href="#">WG964097</a>

- 1 Cp
- 2 Tc
- 3 Ss
- 4 Cn
- 5 Sr
- 6 Qc
- 7 Gl
- 8 Al
- 9 Sc



Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result	Qualifier	RDL	Dilution	Analysis date / time	Batch
Benzene	ND		1.00	1	03/25/2017 11:38	<a href="#">WG964097</a>
Toluene	2.98		1.00	1	03/25/2017 11:38	<a href="#">WG964097</a>
Ethylbenzene	1.55		1.00	1	03/25/2017 11:38	<a href="#">WG964097</a>
Total Xylenes	11.7		3.00	1	03/25/2017 11:38	<a href="#">WG964097</a>
Methyl tert-butyl ether	ND		1.00	1	03/25/2017 11:38	<a href="#">WG964097</a>
Naphthalene	ND		5.00	1	03/25/2017 11:38	<a href="#">WG964097</a>
1,2-Dichloroethane	ND		1.00	1	03/25/2017 11:38	<a href="#">WG964097</a>
(S) Toluene-d8	106		80.0-120		03/25/2017 11:38	<a href="#">WG964097</a>
(S) Dibromofluoromethane	92.8		76.0-123		03/25/2017 11:38	<a href="#">WG964097</a>
(S) 4-Bromofluorobenzene	93.7		80.0-120		03/25/2017 11:38	<a href="#">WG964097</a>

- 1 Cp
- 2 Tc
- 3 Ss
- 4 Cn
- 5 Sr
- 6 Qc
- 7 Gl
- 8 Al
- 9 Sc



Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result	Qualifier	RDL	Dilution	Analysis date / time	Batch
Benzene	ND		1.00	1	03/25/2017 11:52	<a href="#">WG964097</a>
Toluene	ND		1.00	1	03/25/2017 11:52	<a href="#">WG964097</a>
Ethylbenzene	ND		1.00	1	03/25/2017 11:52	<a href="#">WG964097</a>
Total Xylenes	ND		3.00	1	03/25/2017 11:52	<a href="#">WG964097</a>
Methyl tert-butyl ether	ND		1.00	1	03/25/2017 11:52	<a href="#">WG964097</a>
Naphthalene	ND		5.00	1	03/25/2017 11:52	<a href="#">WG964097</a>
1,2-Dichloroethane	ND		1.00	1	03/25/2017 11:52	<a href="#">WG964097</a>
(S) Toluene-d8	107		80.0-120		03/25/2017 11:52	<a href="#">WG964097</a>
(S) Dibromofluoromethane	91.3		76.0-123		03/25/2017 11:52	<a href="#">WG964097</a>
(S) 4-Bromofluorobenzene	96.2		80.0-120		03/25/2017 11:52	<a href="#">WG964097</a>

- 1 Cp
- 2 Tc
- 3 Ss
- 4 Cn
- 5 Sr
- 6 Qc
- 7 Gl
- 8 Al
- 9 Sc



Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result	Qualifier	RDL	Dilution	Analysis date / time	Batch
Benzene	ND		1.00	1	03/25/2017 12:05	<a href="#">WG964097</a>
Toluene	ND		1.00	1	03/25/2017 12:05	<a href="#">WG964097</a>
Ethylbenzene	ND		1.00	1	03/25/2017 12:05	<a href="#">WG964097</a>
Total Xylenes	ND		3.00	1	03/25/2017 12:05	<a href="#">WG964097</a>
Methyl tert-butyl ether	ND		1.00	1	03/25/2017 12:05	<a href="#">WG964097</a>
Naphthalene	ND		5.00	1	03/25/2017 12:05	<a href="#">WG964097</a>
1,2-Dichloroethane	ND		1.00	1	03/25/2017 12:05	<a href="#">WG964097</a>
(S) Toluene-d8	106		80.0-120		03/25/2017 12:05	<a href="#">WG964097</a>
(S) Dibromofluoromethane	91.2		76.0-123		03/25/2017 12:05	<a href="#">WG964097</a>
(S) 4-Bromofluorobenzene	95.2		80.0-120		03/25/2017 12:05	<a href="#">WG964097</a>

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc



Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result	Qualifier	RDL	Dilution	Analysis date / time	Batch
Benzene	615		25.0	25	03/25/2017 12:19	<a href="#">WG964097</a>
Toluene	1270		25.0	25	03/25/2017 12:19	<a href="#">WG964097</a>
Ethylbenzene	88.6		25.0	25	03/25/2017 12:19	<a href="#">WG964097</a>
Total Xylenes	555		75.0	25	03/25/2017 12:19	<a href="#">WG964097</a>
Methyl tert-butyl ether	67.5		25.0	25	03/25/2017 12:19	<a href="#">WG964097</a>
Naphthalene	ND		125	25	03/25/2017 12:19	<a href="#">WG964097</a>
1,2-Dichloroethane	ND		25.0	25	03/25/2017 12:19	<a href="#">WG964097</a>
(S) Toluene-d8	108		80.0-120		03/25/2017 12:19	<a href="#">WG964097</a>
(S) Dibromofluoromethane	90.6		76.0-123		03/25/2017 12:19	<a href="#">WG964097</a>
(S) 4-Bromofluorobenzene	95.0		80.0-120		03/25/2017 12:19	<a href="#">WG964097</a>

- 1 Cp
- 2 Tc
- 3 Ss
- 4 Cn
- 5 Sr
- 6 Qc
- 7 Gl
- 8 Al
- 9 Sc





Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result	Qualifier	RDL	Dilution	Analysis	Batch
	ug/l		ug/l		date / time	
Benzene	3390		50.0	50	03/25/2017 12:32	<a href="#">WG964097</a>
Toluene	505		50.0	50	03/25/2017 12:32	<a href="#">WG964097</a>
Ethylbenzene	103		50.0	50	03/25/2017 12:32	<a href="#">WG964097</a>
Total Xylenes	2460		150	50	03/25/2017 12:32	<a href="#">WG964097</a>
Methyl tert-butyl ether	194		50.0	50	03/25/2017 12:32	<a href="#">WG964097</a>
Naphthalene	ND		250	50	03/25/2017 12:32	<a href="#">WG964097</a>
1,2-Dichloroethane	ND		50.0	50	03/25/2017 12:32	<a href="#">WG964097</a>
<i>(S) Toluene-d8</i>	106		80.0-120		03/25/2017 12:32	<a href="#">WG964097</a>
<i>(S) Dibromofluoromethane</i>	89.7		76.0-123		03/25/2017 12:32	<a href="#">WG964097</a>
<i>(S) 4-Bromofluorobenzene</i>	96.2		80.0-120		03/25/2017 12:32	<a href="#">WG964097</a>

- 1 Cp
- 2 Tc
- 3 Ss
- 4 Cn
- 5 Sr
- 6 Qc
- 7 Gl
- 8 Al
- 9 Sc



Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result	Qualifier	RDL	Dilution	Analysis date / time	Batch
Benzene	7340		100	100	03/25/2017 12:45	<a href="#">WG964097</a>
Toluene	2990		100	100	03/25/2017 12:45	<a href="#">WG964097</a>
Ethylbenzene	704		100	100	03/25/2017 12:45	<a href="#">WG964097</a>
Total Xylenes	4050		300	100	03/25/2017 12:45	<a href="#">WG964097</a>
Methyl tert-butyl ether	248		100	100	03/25/2017 12:45	<a href="#">WG964097</a>
Naphthalene	ND		500	100	03/25/2017 12:45	<a href="#">WG964097</a>
1,2-Dichloroethane	ND		100	100	03/25/2017 12:45	<a href="#">WG964097</a>
(S) Toluene-d8	107		80.0-120		03/25/2017 12:45	<a href="#">WG964097</a>
(S) Dibromofluoromethane	87.8		76.0-123		03/25/2017 12:45	<a href="#">WG964097</a>
(S) 4-Bromofluorobenzene	92.6		80.0-120		03/25/2017 12:45	<a href="#">WG964097</a>

- 1 Cp
- 2 Tc
- 3 Ss
- 4 Cn
- 5 Sr
- 6 Qc
- 7 Gl
- 8 Al
- 9 Sc



Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result ug/l	Qualifier	RDL ug/l	Dilution	Analysis date / time	Batch
Benzene	12300		200	200	03/25/2017 12:59	<a href="#">WG964097</a>
Toluene	19600		200	200	03/25/2017 12:59	<a href="#">WG964097</a>
Ethylbenzene	1330		200	200	03/25/2017 12:59	<a href="#">WG964097</a>
Total Xylenes	7500		600	200	03/25/2017 12:59	<a href="#">WG964097</a>
Methyl tert-butyl ether	654		200	200	03/25/2017 12:59	<a href="#">WG964097</a>
Naphthalene	ND		1000	200	03/25/2017 12:59	<a href="#">WG964097</a>
1,2-Dichloroethane	ND		200	200	03/25/2017 12:59	<a href="#">WG964097</a>
(S) Toluene-d8	107		80.0-120		03/25/2017 12:59	<a href="#">WG964097</a>
(S) Dibromofluoromethane	91.4		76.0-123		03/25/2017 12:59	<a href="#">WG964097</a>
(S) 4-Bromofluorobenzene	95.9		80.0-120		03/25/2017 12:59	<a href="#">WG964097</a>

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc



Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result	Qualifier	RDL	Dilution	Analysis date / time	Batch
Benzene	424		20.0	20	03/29/2017 06:58	<a href="#">WG964097</a>
Toluene	ND		1.00	1	03/25/2017 13:12	<a href="#">WG964097</a>
Ethylbenzene	2.62		1.00	1	03/25/2017 13:12	<a href="#">WG964097</a>
Total Xylenes	342		60.0	20	03/29/2017 06:58	<a href="#">WG964097</a>
Methyl tert-butyl ether	ND		1.00	1	03/25/2017 13:12	<a href="#">WG964097</a>
Naphthalene	16.9		5.00	1	03/25/2017 13:12	<a href="#">WG964097</a>
1,2-Dichloroethane	ND		1.00	1	03/25/2017 13:12	<a href="#">WG964097</a>
(S) Toluene-d8	103		80.0-120		03/29/2017 06:58	<a href="#">WG964097</a>
(S) Toluene-d8	106		80.0-120		03/25/2017 13:12	<a href="#">WG964097</a>
(S) Dibromofluoromethane	81.4		76.0-123		03/25/2017 13:12	<a href="#">WG964097</a>
(S) Dibromofluoromethane	106		76.0-123		03/29/2017 06:58	<a href="#">WG964097</a>
(S) 4-Bromofluorobenzene	99.3		80.0-120		03/25/2017 13:12	<a href="#">WG964097</a>
(S) 4-Bromofluorobenzene	106		80.0-120		03/29/2017 06:58	<a href="#">WG964097</a>

- 1 Cp
- 2 Tc
- 3 Ss
- 4 Cn
- 5 Sr
- 6 Qc
- 7 Gl
- 8 Al
- 9 Sc



Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result	Qualifier	RDL	Dilution	Analysis date / time	Batch
Benzene	59.6		1.00	1	03/25/2017 13:26	<a href="#">WG964097</a>
Toluene	ND		1.00	1	03/25/2017 13:26	<a href="#">WG964097</a>
Ethylbenzene	ND		1.00	1	03/25/2017 13:26	<a href="#">WG964097</a>
Total Xylenes	16.9		3.00	1	03/25/2017 13:26	<a href="#">WG964097</a>
Methyl tert-butyl ether	1.24		1.00	1	03/25/2017 13:26	<a href="#">WG964097</a>
Naphthalene	ND		5.00	1	03/25/2017 13:26	<a href="#">WG964097</a>
1,2-Dichloroethane	ND		1.00	1	03/25/2017 13:26	<a href="#">WG964097</a>
(S) Toluene-d8	107		80.0-120		03/25/2017 13:26	<a href="#">WG964097</a>
(S) Dibromofluoromethane	90.5		76.0-123		03/25/2017 13:26	<a href="#">WG964097</a>
(S) 4-Bromofluorobenzene	92.8		80.0-120		03/25/2017 13:26	<a href="#">WG964097</a>

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc



Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result	Qualifier	RDL	Dilution	Analysis date / time	Batch
Benzene	ND		1.00	1	03/25/2017 13:39	<a href="#">WG964097</a>
Toluene	ND		1.00	1	03/25/2017 13:39	<a href="#">WG964097</a>
Ethylbenzene	ND		1.00	1	03/25/2017 13:39	<a href="#">WG964097</a>
Total Xylenes	ND		3.00	1	03/25/2017 13:39	<a href="#">WG964097</a>
Methyl tert-butyl ether	ND		1.00	1	03/25/2017 13:39	<a href="#">WG964097</a>
Naphthalene	ND		5.00	1	03/25/2017 13:39	<a href="#">WG964097</a>
1,2-Dichloroethane	ND		1.00	1	03/25/2017 13:39	<a href="#">WG964097</a>
(S) Toluene-d8	107		80.0-120		03/25/2017 13:39	<a href="#">WG964097</a>
(S) Dibromofluoromethane	92.0		76.0-123		03/25/2017 13:39	<a href="#">WG964097</a>
(S) 4-Bromofluorobenzene	94.4		80.0-120		03/25/2017 13:39	<a href="#">WG964097</a>

- 1 Cp
- 2 Tc
- 3 Ss
- 4 Cn
- 5 Sr
- 6 Qc
- 7 Gl
- 8 Al
- 9 Sc



Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result	Qualifier	RDL	Dilution	Analysis date / time	Batch
Benzene	604		20.0	20	03/25/2017 13:52	<a href="#">WG964097</a>
Toluene	ND		20.0	20	03/25/2017 13:52	<a href="#">WG964097</a>
Ethylbenzene	20.4		20.0	20	03/25/2017 13:52	<a href="#">WG964097</a>
Total Xylenes	680		60.0	20	03/25/2017 13:52	<a href="#">WG964097</a>
Methyl tert-butyl ether	ND		20.0	20	03/25/2017 13:52	<a href="#">WG964097</a>
Naphthalene	ND		100	20	03/25/2017 13:52	<a href="#">WG964097</a>
1,2-Dichloroethane	ND		20.0	20	03/25/2017 13:52	<a href="#">WG964097</a>
(S) Toluene-d8	106		80.0-120		03/25/2017 13:52	<a href="#">WG964097</a>
(S) Dibromofluoromethane	92.1		76.0-123		03/25/2017 13:52	<a href="#">WG964097</a>
(S) 4-Bromofluorobenzene	96.1		80.0-120		03/25/2017 13:52	<a href="#">WG964097</a>

- 1 Cp
- 2 Tc
- 3 Ss
- 4 Cn
- 5 Sr
- 6 Qc
- 7 Gl
- 8 Al
- 9 Sc



Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result	Qualifier	RDL	Dilution	Analysis date / time	Batch
Benzene	ND		1.00	1	03/29/2017 07:21	<a href="#">WG964097</a>
Toluene	ND		1.00	1	03/29/2017 07:21	<a href="#">WG964097</a>
Ethylbenzene	ND		1.00	1	03/29/2017 07:21	<a href="#">WG964097</a>
Total Xylenes	ND		3.00	1	03/29/2017 07:21	<a href="#">WG964097</a>
Methyl tert-butyl ether	ND		1.00	1	03/29/2017 07:21	<a href="#">WG964097</a>
Naphthalene	ND		5.00	1	03/29/2017 07:21	<a href="#">WG964097</a>
1,2-Dichloroethane	ND		1.00	1	03/29/2017 07:21	<a href="#">WG964097</a>
(S) Toluene-d8	103		80.0-120		03/29/2017 07:21	<a href="#">WG964097</a>
(S) Dibromofluoromethane	104		76.0-123		03/29/2017 07:21	<a href="#">WG964097</a>
(S) 4-Bromofluorobenzene	104		80.0-120		03/29/2017 07:21	<a href="#">WG964097</a>

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc





Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result	Qualifier	RDL	Dilution	Analysis date / time	Batch
Benzene	ND		1.00	1	03/29/2017 07:44	<a href="#">WG964097</a>
Toluene	ND		1.00	1	03/29/2017 07:44	<a href="#">WG964097</a>
Ethylbenzene	ND		1.00	1	03/29/2017 07:44	<a href="#">WG964097</a>
Total Xylenes	ND		3.00	1	03/29/2017 07:44	<a href="#">WG964097</a>
Methyl tert-butyl ether	ND		1.00	1	03/29/2017 07:44	<a href="#">WG964097</a>
Naphthalene	ND		5.00	1	03/29/2017 07:44	<a href="#">WG964097</a>
1,2-Dichloroethane	ND		1.00	1	03/29/2017 07:44	<a href="#">WG964097</a>
(S) Toluene-d8	102		80.0-120		03/29/2017 07:44	<a href="#">WG964097</a>
(S) Dibromofluoromethane	104		76.0-123		03/29/2017 07:44	<a href="#">WG964097</a>
(S) 4-Bromofluorobenzene	105		80.0-120		03/29/2017 07:44	<a href="#">WG964097</a>

- 1 Cp
- 2 Tc
- 3 Ss
- 4 Cn
- 5 Sr
- 6 Qc
- 7 Gl
- 8 Al
- 9 Sc



Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result	Qualifier	RDL	Dilution	Analysis date / time	Batch
Benzene	ND		1.00	1	03/29/2017 08:07	<a href="#">WG964097</a>
Toluene	ND		1.00	1	03/29/2017 08:07	<a href="#">WG964097</a>
Ethylbenzene	ND		1.00	1	03/29/2017 08:07	<a href="#">WG964097</a>
Total Xylenes	ND		3.00	1	03/29/2017 08:07	<a href="#">WG964097</a>
Methyl tert-butyl ether	ND		1.00	1	03/29/2017 08:07	<a href="#">WG964097</a>
Naphthalene	ND		5.00	1	03/29/2017 08:07	<a href="#">WG964097</a>
1,2-Dichloroethane	ND		1.00	1	03/29/2017 08:07	<a href="#">WG964097</a>
(S) Toluene-d8	101		80.0-120		03/29/2017 08:07	<a href="#">WG964097</a>
(S) Dibromofluoromethane	105		76.0-123		03/29/2017 08:07	<a href="#">WG964097</a>
(S) 4-Bromofluorobenzene	105		80.0-120		03/29/2017 08:07	<a href="#">WG964097</a>

- 1 Cp
- 2 Tc
- 3 Ss
- 4 Cn
- 5 Sr
- 6 Qc
- 7 Gl
- 8 Al
- 9 Sc



Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result	Qualifier	RDL	Dilution	Analysis date / time	Batch
Benzene	ND		1.00	1	03/25/2017 10:31	<a href="#">WG964097</a>
Toluene	ND		1.00	1	03/25/2017 10:31	<a href="#">WG964097</a>
Ethylbenzene	ND		1.00	1	03/25/2017 10:31	<a href="#">WG964097</a>
Total Xylenes	ND		3.00	1	03/25/2017 10:31	<a href="#">WG964097</a>
Methyl tert-butyl ether	ND		1.00	1	03/25/2017 10:31	<a href="#">WG964097</a>
Naphthalene	ND		5.00	1	03/25/2017 10:31	<a href="#">WG964097</a>
1,2-Dichloroethane	ND		1.00	1	03/25/2017 10:31	<a href="#">WG964097</a>
(S) Toluene-d8	107		80.0-120		03/25/2017 10:31	<a href="#">WG964097</a>
(S) Dibromofluoromethane	90.3		76.0-123		03/25/2017 10:31	<a href="#">WG964097</a>
(S) 4-Bromofluorobenzene	95.7		80.0-120		03/25/2017 10:31	<a href="#">WG964097</a>

- 1 Cp
- 2 Tc
- 3 Ss
- 4 Cn
- 5 Sr
- 6 Qc
- 7 Gl
- 8 Al
- 9 Sc



Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result	Qualifier	RDL	Dilution	Analysis date / time	Batch
Benzene	801	J5	10.0	10	03/28/2017 00:44	WG964354
Toluene	113		10.0	10	03/28/2017 00:44	WG964354
Ethylbenzene	ND		10.0	10	03/28/2017 00:44	WG964354
Total Xylenes	305		30.0	10	03/28/2017 00:44	WG964354
Methyl tert-butyl ether	149		10.0	10	03/28/2017 00:44	WG964354
Naphthalene	ND		50.0	10	03/28/2017 00:44	WG964354
1,2-Dichloroethane	ND		10.0	10	03/28/2017 00:44	WG964354
(S) Toluene-d8	102		80.0-120		03/28/2017 00:44	WG964354
(S) Dibromofluoromethane	96.4		76.0-123		03/28/2017 00:44	WG964354
(S) 4-Bromofluorobenzene	114		80.0-120		03/28/2017 00:44	WG964354

- 1 Cp
- 2 Tc
- 3 Ss
- 4 Cn
- 5 Sr
- 6 Qc
- 7 Gl
- 8 Al
- 9 Sc



Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result	Qualifier	RDL	Dilution	Analysis date / time	Batch
Benzene	ND		1.00	1	03/28/2017 00:57	<a href="#">WG964354</a>
Toluene	ND		1.00	1	03/28/2017 00:57	<a href="#">WG964354</a>
Ethylbenzene	ND		1.00	1	03/28/2017 00:57	<a href="#">WG964354</a>
Total Xylenes	ND		3.00	1	03/28/2017 00:57	<a href="#">WG964354</a>
Methyl tert-butyl ether	7.55		1.00	1	03/28/2017 00:57	<a href="#">WG964354</a>
Naphthalene	ND		5.00	1	03/28/2017 00:57	<a href="#">WG964354</a>
1,2-Dichloroethane	ND		1.00	1	03/28/2017 00:57	<a href="#">WG964354</a>
<i>(S) Toluene-d8</i>	106		80.0-120		03/28/2017 00:57	<a href="#">WG964354</a>
<i>(S) Dibromofluoromethane</i>	102		76.0-123		03/28/2017 00:57	<a href="#">WG964354</a>
<i>(S) 4-Bromofluorobenzene</i>	106		80.0-120		03/28/2017 00:57	<a href="#">WG964354</a>

- 1 Cp
- 2 Tc
- 3 Ss
- 4 Cn
- 5 Sr
- 6 Qc
- 7 Gl
- 8 Al
- 9 Sc



Method Blank (MB)

(MB) R3206245-3 03/25/17 05:12

Analyte	MB Result	MB Qualifier	MB MDL	MB RDL
	ug/l		ug/l	ug/l
Benzene	U		0.331	1.00
1,2-Dichloroethane	U		0.361	1.00
Ethylbenzene	U		0.384	1.00
Methyl tert-butyl ether	U		0.367	1.00
Naphthalene	U		1.00	5.00
Toluene	U		0.412	1.00
Xylenes, Total	U		1.06	3.00
(S) Toluene-d8	106			80.0-120
(S) Dibromofluoromethane	90.4			76.0-123
(S) 4-Bromofluorobenzene	93.1			80.0-120

<sup>1</sup> Cp

<sup>2</sup> Tc

<sup>3</sup> Ss

<sup>4</sup> Cn

<sup>5</sup> Sr

<sup>6</sup> Qc

<sup>7</sup> Gl

<sup>8</sup> Al

<sup>9</sup> Sc

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R3206245-1 03/25/17 04:32 • (LCSD) R3206245-2 03/25/17 04:45

Analyte	Spike Amount	LCS Result	LCSD Result	LCS Rec.	LCSD Rec.	Rec. Limits	LCS Qualifier	LCSD Qualifier	RPD	RPD Limits
	ug/l	ug/l	ug/l	%	%	%			%	%
Benzene	25.0	25.7	27.0	103	108	70.0-130			4.84	20
1,2-Dichloroethane	25.0	27.3	27.6	109	110	70.0-130			1.01	20
Ethylbenzene	25.0	22.9	24.4	91.7	97.5	70.0-130			6.16	20
Methyl tert-butyl ether	25.0	26.3	27.2	105	109	70.0-130			3.17	20
Naphthalene	25.0	23.1	22.9	92.2	91.8	70.0-130			0.480	20
Toluene	25.0	25.0	26.1	100	105	70.0-130			4.22	20
Xylenes, Total	75.0	70.5	73.3	94.0	97.7	70.0-130			3.89	20
(S) Toluene-d8				104	103	80.0-120				
(S) Dibromofluoromethane				94.1	95.8	76.0-123				
(S) 4-Bromofluorobenzene				93.2	94.0	80.0-120				



Method Blank (MB)

(MB) R3206467-3 03/27/17 21:49

Analyte	MB Result	MB Qualifier	MB MDL	MB RDL
	ug/l		ug/l	ug/l
Benzene	U		0.331	1.00
1,2-Dichloroethane	U		0.361	1.00
Ethylbenzene	U		0.384	1.00
Methyl tert-butyl ether	U		0.367	1.00
Naphthalene	U		1.00	5.00
Toluene	U		0.412	1.00
Xylenes, Total	U		1.06	3.00
(S) Toluene-d8	110			80.0-120
(S) Dibromofluoromethane	102			76.0-123
(S) 4-Bromofluorobenzene	107			80.0-120

<sup>1</sup> Cp

<sup>2</sup> Tc

<sup>3</sup> Ss

<sup>4</sup> Cn

<sup>5</sup> Sr

<sup>6</sup> Qc

<sup>7</sup> Gl

<sup>8</sup> Al

<sup>9</sup> Sc

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R3206467-1 03/27/17 21:08 • (LCSD) R3206467-2 03/27/17 21:22

Analyte	Spike Amount	LCS Result	LCSD Result	LCS Rec.	LCSD Rec.	Rec. Limits	LCS Qualifier	LCSD Qualifier	RPD	RPD Limits
	ug/l	ug/l	ug/l	%	%	%			%	%
Benzene	25.0	25.9	26.0	104	104	70.0-130			0.300	20
1,2-Dichloroethane	25.0	27.0	26.9	108	108	70.0-130			0.0900	20
Ethylbenzene	25.0	25.1	25.7	101	103	70.0-130			2.18	20
Methyl tert-butyl ether	25.0	21.9	26.4	87.5	105	70.0-130			18.6	20
Naphthalene	25.0	28.5	29.2	114	117	70.0-130			2.23	20
Toluene	25.0	24.4	24.0	97.7	96.1	70.0-130			1.61	20
Xylenes, Total	75.0	77.8	74.9	104	99.9	70.0-130			3.80	20
(S) Toluene-d8				104	102	80.0-120				
(S) Dibromofluoromethane				105	105	76.0-123				
(S) 4-Bromofluorobenzene				104	88.3	80.0-120				

L897220-21 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L897220-21 03/28/17 00:44 • (MS) R3206467-4 03/27/17 22:02 • (MSD) R3206467-5 03/27/17 22:15

Analyte	Spike Amount	Original Result	MS Result	MSD Result	MS Rec.	MSD Rec.	Dilution	Rec. Limits	MS Qualifier	MSD Qualifier	RPD	RPD Limits
	ug/l	ug/l	ug/l	ug/l	%	%		%			%	%
Benzene	25.0	801	1170	1050	146	101	10	54.3-133	J5		10.3	20
1,2-Dichloroethane	25.0	ND	271	237	108	94.7	10	60.0-126			13.5	20
Ethylbenzene	25.0	ND	271	283	108	113	10	61.4-133			4.26	20
Methyl tert-butyl ether	25.0	149	429	390	112	96.4	10	57.7-134			9.61	20
Naphthalene	25.0	ND	290	329	110	125	10	58.0-135			12.5	25.5
Toluene	25.0	113	379	362	107	99.8	10	61.4-130			4.56	20
Xylenes, Total	75.0	305	1150	1200	113	119	10	63.3-131			3.92	20



L897220-21 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L897220-21 03/28/17 00:44 • (MS) R3206467-4 03/27/17 22:02 • (MSD) R3206467-5 03/27/17 22:15

Analyte	Spike Amount ug/l	Original Result ug/l	MS Result ug/l	MSD Result ug/l	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
(S) Toluene-d8					104	101		80.0-120				
(S) Dibromofluoromethane					103	100		76.0-123				
(S) 4-Bromofluorobenzene					105	106		80.0-120				

- 1 Cp
- 2 Tc
- 3 Ss
- 4 Cn
- 5 Sr
- 6 Qc
- 7 Gl
- 8 Al
- 9 Sc





Abbreviations and Definitions

SDG	Sample Delivery Group.
MDL	Method Detection Limit.
RDL	Reported Detection Limit.
ND	Not detected at the Reporting Limit (or MDL where applicable).
U	Not detected at the Reporting Limit (or MDL where applicable).
RPD	Relative Percent Difference.
Original Sample	The non-spiked sample in the prep batch used to determine the Relative Percent Difference (RPD) from a quality control sample. The Original Sample may not be included within the reported SDG.
(S)	Surrogate (Surrogate Standard) - Analytes added to every blank, sample, Laboratory Control Sample/Duplicate and Matrix Spike/Duplicate; used to evaluate analytical efficiency by measuring recovery. Surrogates are not expected to be detected in all environmental media.
Rec.	Recovery.

Qualifier	Description
J5	The sample matrix interfered with the ability to make any accurate determination; spike value is high.

<sup>1</sup> Cp

<sup>2</sup> Tc

<sup>3</sup> Ss

<sup>4</sup> Cn

<sup>5</sup> Sr

<sup>6</sup> Qc

<sup>7</sup> Gl

<sup>8</sup> Al

<sup>9</sup> Sc



ESC Lab Sciences is the only environmental laboratory accredited/certified to support your work nationwide from one location. One phone call, one point of contact, one laboratory. No other lab is as accessible or prepared to handle your needs throughout the country. Our capacity and capability from our single location laboratory is comparable to the collective totals of the network laboratories in our industry. The most significant benefit to our "one location" design is the design of our laboratory campus. The model is conducive to accelerated productivity, decreasing turn-around time, and preventing cross contamination, thus protecting sample integrity. Our focus on premium quality and prompt service allows us to be **YOUR LAB OF CHOICE**.  
 \* Not all certifications held by the laboratory are applicable to the results reported in the attached report.

## State Accreditations

Alabama	40660	Nevada	TN-03-2002-34
Alaska	UST-080	New Hampshire	2975
Arizona	AZ0612	New Jersey–NELAP	TN002
Arkansas	88-0469	New Mexico	TN00003
California	01157CA	New York	11742
Colorado	TN00003	North Carolina	Env375
Connecticut	PH-0197	North Carolina <sup>1</sup>	DW21704
Florida	E87487	North Carolina <sup>2</sup>	41
Georgia	NELAP	North Dakota	R-140
Georgia <sup>1</sup>	923	Ohio–VAP	CL0069
Idaho	TN00003	Oklahoma	9915
Illinois	200008	Oregon	TN200002
Indiana	C-TN-01	Pennsylvania	68-02979
Iowa	364	Rhode Island	221
Kansas	E-10277	South Carolina	84004
Kentucky <sup>1</sup>	90010	South Dakota	n/a
Kentucky <sup>2</sup>	16	Tennessee <sup>14</sup>	2006
Louisiana	AI30792	Texas	T 104704245-07-TX
Maine	TN0002	Texas <sup>5</sup>	LAB0152
Maryland	324	Utah	6157585858
Massachusetts	M-TN003	Vermont	VT2006
Michigan	9958	Virginia	109
Minnesota	047-999-395	Washington	C1915
Mississippi	TN00003	West Virginia	233
Missouri	340	Wisconsin	9980939910
Montana	CERT0086	Wyoming	A2LA
Nebraska	NE-OS-15-05		

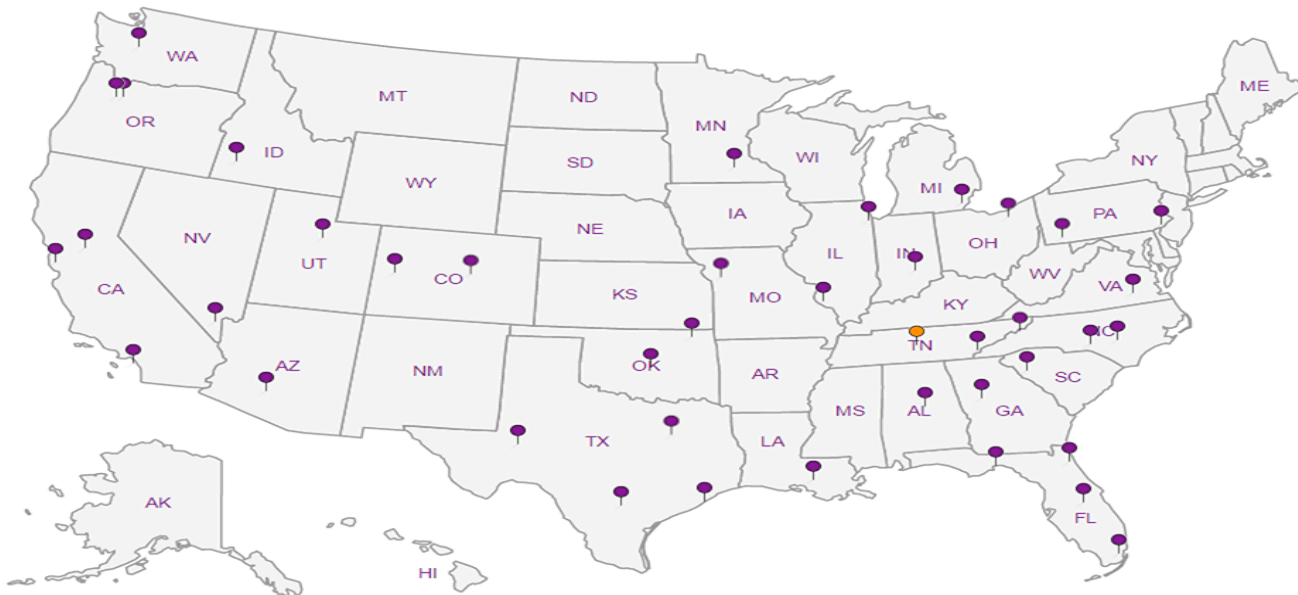
## Third Party & Federal Accreditations


A2LA – ISO 17025	1461.01	AIHA-LAP,LLC	100789
A2LA – ISO 17025 <sup>5</sup>	1461.02	DOD	1461.01
Canada	1461.01	USDA	S-67674
EPA–Crypto	TN00003		

<sup>1</sup> Drinking Water <sup>2</sup> Underground Storage Tanks <sup>3</sup> Aquatic Toxicity <sup>4</sup> Chemical/Microbiological <sup>5</sup> Mold <sup>n/a</sup> Accreditation not applicable

## Our Locations

ESC Lab Sciences has sixty-four client support centers that provide sample pickup and/or the delivery of sampling supplies. If you would like assistance from one of our support offices, please contact our main office. **ESC Lab Sciences performs all testing at our central laboratory.**



<b>CH2M Hill- Kinder Morgan- Atlanta, GA</b> 6600 Peachtree Dunwoody Road Report to: <b>Bethany Garvey</b> Project Description: <b>Lewis Drive</b> Phone: <b>770-604-9182</b> Fax: Client Project # <b>684910.LD.RASH</b>		Billing Information: <b>Accounts Payable</b> <b>1000 Windward Concourse</b> <b>Ste 450</b> <b>Alpharetta, GA 30005</b> Email To: <b>bgarvey@ch2m.com</b>		Analysis / Container / Preservative Pres Chk: <b>HCI</b> Analysis: <b>V8260BTEXMNSC 40mi/Amb-HCI</b> Container: <b>V8260BTEXMNSC 40mi/Amb-HCI-BIK</b>										Chain of Custody Page <b>1</b> of <b>3</b>  <b>ESC</b> L.A.B S.C.I.E.N.C.E.S <b>YOUR LAB OF CHOICE</b> 12065 Lebanon Rd Mount Juliet, TN 37122 Phone: 615-758-5858 Phone: 800-767-5859 Fax: 615-758-5859 L# <b>L897220</b> <div style="border: 1px solid black; border-radius: 10px; padding: 5px; display: inline-block;"><b>L063</b></div> Acctnum: <b>KINCH2MGA</b> Template: <b>T121696</b> Prelogin: <b>P593579</b> TSR: <b>526 - Chris McCord</b> PB: <b>3-17-176m</b> Shipped Via: <b>FedEX Priority</b>					
		City/State Collected: <b>Belton, SC</b> Lab Project # <b>KINCH2MGA-LEWIS</b> Site/Facility ID # <b>Lewis Dr</b> P.O. # Quote # Date Results Needed No. of Cntrs		Collected by (print): <b>S. McLann</b> <b>M. Warren</b> Collected by (signature): <b>Justine McLann</b> Immediately Packed <input checked="" type="checkbox"/>										Rush? (Lab MUST Be Notified) <input type="checkbox"/> Same Day <input checked="" type="checkbox"/> Five Day <input type="checkbox"/> Next Day <input type="checkbox"/> 5 Day (Rad Only) <input type="checkbox"/> Two Day <input type="checkbox"/> 10 Day (Rad Only) <input type="checkbox"/> Three Day					
Sample ID	Comp/Grab	Matrix *	Depth	Date	Time	Cntrs											Results	Sample # (if only)	
MW-17B-032017	GRAB	GW		03/20/17	1245	3	X												-01
MW-29-032017		GW		03/20/17	1255	3	X												02
MW-45B-032017		GW			1310	3	X												03
MW-23-032017		GW			1330	3	X												04
MW-23-032017-FD		GW			1335	3	X												05
MW-23B-032017		GW			1345	3	X											FIELD DUP	06
MW-26-032017		GW			1400	3	X												07
MW-26B-032017		GW			1410	3	X												08
MW-15B-032017		GW			1430	3	X												09
MW-15-032017		GW			1445	3	X												10
* Matrix: SS - Soil AIR - Air F - Filter GW - Groundwater B - Bioassay WW - WasteWater DW - Drinking Water OT - Other		Remarks: Samples returned via: <input type="checkbox"/> UPS <input checked="" type="checkbox"/> FedEx <input type="checkbox"/> Courier										Tracking #		pH _____ Temp _____ Flow _____ Other _____		Sample Receipt Checklist COC Seal Present/Intact: <input type="checkbox"/> Y <input type="checkbox"/> N COC Signed/Accurate: <input checked="" type="checkbox"/> Y <input type="checkbox"/> N Bottles arrive intact: <input checked="" type="checkbox"/> Y <input type="checkbox"/> N Correct bottles used: <input checked="" type="checkbox"/> Y <input type="checkbox"/> N Sufficient volume sent: <input checked="" type="checkbox"/> Y <input type="checkbox"/> N If Applicable VOA Zero Headpace: <input checked="" type="checkbox"/> Y <input type="checkbox"/> N Preservation Correct/Checked: <input type="checkbox"/> Y <input type="checkbox"/> N			
Relinquished by: (Signature) <b>Justine McLann</b>		Date:	Time:	Received by: (Signature) <b>[Signature]</b>		Trip Blank Received: <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <b>HCI/MeOH</b> <b>TBR</b>												Preservation required by login: Date/Time	
Relinquished by: (Signature) <b>Melissa Allen</b>		Date:	Time:	Received by: (Signature) <b>[Signature]</b>		Temp: °C Bottles Received: <b>4.0° 7011 63</b>												If preservation required by login: Date/Time	
Relinquished by: (Signature) <b>[Signature]</b>		Date:	Time:	Received for lab by: (Signature) <b>[Signature]</b>		Date: Time: <b>3-21-17 900</b>												Hold: Condition: <b>NCF / OK</b>	

**CH2M Hill- Kinder Morgan- Atlanta, GA**

6600 Peachtree Dunwoody Road

Report to:  
**Bethany Garvey**

Project  
Description: **Lewis Drive**

Phone: **770-604-9182**  
Fax:

Collected by (print):  
**J. McCANN  
M. WARREN**

Collected by (signature):  
*Justin McCann*

Immediately Packed on Ice N    Y    X

Billing Information:  
**Accounts Payable  
1000 Windward Concourse  
Ste 450  
Alpharetta, GA 30005**

Email To: **bgarvey@ch2m.com**

City/State  
Collected: **BELTON, SC**

Lab Project #  
**KINCH2MGA-LEWIS**

P.O. #

Quote #

Date Results Needed

Pres Chk

V8260BTEXMNSC 40m/Amb-HCI

V8260BTEXMNSC 40m/Amb-HCI-Blk

Analysis / Container / Preservative

Chain of Custody Page **2 of 3**



**YOUR LAB OF CHOICE**

12065 Lebanon Rd  
Mount Juliet, TN 37122  
Phone: 615-758-5858  
Phone: 800-767-5859  
Fax: 615-758-5859



L# **L897220**

Table #

Acctnum: **KINCH2MGA**

Template: **T121696**

Prelogin: **P593579**

TSR: **526 - Chris McCord**

PB: **3-17-17**

Shipped Via: **FedEX Priority**

Remarks Sample # (lab only)

Sample ID	Comp/Grab	Matrix *	Depth	Date	Time	No. of Cntrs												
MW-39-032017	GRAB	GW		03/20/17	1455	3	X											11
MW-40-032017		GW			1505	3	X											12
MW-41-032017		GW			1515	3	X											13
MW-42-032017		GW			1525	3	X											14
MW-25B-032017		GW			1535	3	X											15
MW-25-032017		GW			1545	3	X											16
MW-35-032017		GW			1555	3	X											17
MW-12B-032017		GW			1605	3	X											18
FB-01-032017		GW			1615	3	X	X										19
		GW				3	X											

\* Matrix:  
SS - Soil AIR - Air F - Filter  
GW - Groundwater B - Bioassay  
WW - WasteWater  
DW - Drinking Water  
OT - Other

Remarks:

Samples returned via:  
UPS    FedEx    Courier   

Tracking #

pH \_\_\_\_\_ Temp \_\_\_\_\_

Flow \_\_\_\_\_ Other \_\_\_\_\_

Sample Receipt Checklist

COC Seal Present/Intact:    NP    VY    N  
COC Signed/Accurate:    N    N  
Bottles arrive intact:    N    N  
Correct bottles used:    N    N  
Sufficient volume sent:    N    N  
If Applicable  
VOA Zero Headspace:    N    N  
Preservation Correct/Checked:    Y    N

Relinquished by: (Signature) *Justin McCann* Date: 3/20/17 Time: 1800

Relinquished by: (Signature) *Madison Allen* Date: 03/20/17 Time: 1800

Relinquished by: (Signature) \_\_\_\_\_ Date: \_\_\_\_\_ Time: \_\_\_\_\_



Received by: (Signature) \_\_\_\_\_ Trip Blank Received:    Yes / No    MeoH    YBR   

Received by: (Signature) \_\_\_\_\_ Temp: 4.0°C Bottles Received: 19/63

Received for lab by: (Signature) *myj/akb* Date: 3-21-17 Time: 0900

If preservation required by Login: Date/Time  
Hold: \_\_\_\_\_ Condition: NCF / OK



<b>CH2M Hill- Kinder Morgan- Atlanta, GA</b> 6600 Peachtree Dunwoody Road Report to: <b>Bethany Garvey</b> Project Description: <b>Lewis Drive</b>		Billing Information: <b>Accounts Payable</b> 1000 Windward Concourse Ste 450 Alpharetta, GA 30005 Email To: bgarvey@ch2m.com		Pres Chk: <b>HCI</b>		Analysis / Container / Preservative						Chain of Custody Page <b>3 of 3</b>  YOUR LAB OF CHOICE 12065 Lebanon Rd Mount Juliet, TN 37122 Phone: 615-758-5858 Phone: 800-767-5859 Fax: 615-758-5859 			
Phone: <b>770-604-9182</b> Fax:		Client Project # <b>68491DL.D.RA.ST</b>		Lab Project # <b>KINCH2MGA-LEWIS</b>		City/State Collected: <b>Belton, SC</b>		V8260BTEXMNSC 40ml/Amb-HCI V8260BTEXMNSC 40ml/Amb-HCI-BIK		L# <b>L817220</b>		Table #			
Collected by (print): <b>S. McLann</b>		Site/Facility ID # <b>Lewis Dr</b>		P.O. #						Acctnum: <b>KINCH2MGA</b>		Template: <b>T121056</b>		Prelogin: <b>P593579</b>	
Collected by (signature): <b>Justine McLann</b>		Rush? (Lab MUST Be Notified) <input type="checkbox"/> Same Day <input checked="" type="checkbox"/> Five Day <input type="checkbox"/> Next Day <input type="checkbox"/> 5 Day (Rad Only) <input type="checkbox"/> Two Day <input type="checkbox"/> 10 Day (Rad Only) <input type="checkbox"/> Three Day		Quote #		Date Results Needed		No. of Cntrs		Template: <b>T121056</b>		Prelogin: <b>P593579</b>		TSR: <b>526 - Chris McCord</b>	
Immediately Packed on Ice N <input type="checkbox"/> Y <input checked="" type="checkbox"/>										Shipped Via: <b>FedEx Priority</b>		Remarks		Sample # (lab only)	
Sample ID		Comp/Grab	Matrix *	Depth	Date	Time	Cntrs								
<b>TB-01-032017</b>		<b>GRAB</b>	<b>GW</b>		<b>03/20/17</b>	<b>1620</b>	<b>17</b>	<b>X</b>	<b>X</b>						<b>-20</b>
<b>MW-34-032017</b>			<b>GW</b>		<b>03/20/17</b>	<b>1630</b>	<b>3</b>	<b>X</b>							<b>21</b>
<b>MW-38-032017</b>			<b>GW</b>		<b>03/20/17</b>	<b>1640</b>	<b>3</b>	<b>X</b>							<b>22</b>
			<b>GW</b>				<b>3</b>	<b>X</b>							<b>25<sup>SN</sup></b>
<b>DUP</b>			<b>GW</b>				<b>3</b>	<b>X</b>							
<b>DUP</b>			<b>GW</b>				<b>3</b>	<b>X</b>							
<b>FIELD BLANK</b>			<b>GW</b>				<b>3</b>	<b>X</b>							
<b>TRIP BLANK</b>			<b>GW</b>				<b>1</b>		<b>X</b>						
<b>TRIP BLANK</b>			<b>GW</b>				<b>1</b>		<b>X</b>						
* Matrix: SS - Soil AIR - Air F - Filter GW - Groundwater B - Bioassay WW - WasteWater DW - Drinking Water OT - Other		Remarks: Samples returned via: <input type="checkbox"/> UPS <input checked="" type="checkbox"/> FedEx <input type="checkbox"/> Courier		Tracking #		pH _____ Temp _____ Flow _____ Other _____		Sample Receipt Checklist COC Seal Present/Intact: <input type="checkbox"/> NP <input type="checkbox"/> Y <input type="checkbox"/> N COC Signed/Accurate: <input checked="" type="checkbox"/> Y <input type="checkbox"/> N Bottles system intact: <input checked="" type="checkbox"/> Y <input type="checkbox"/> N Correct bottles used: <input checked="" type="checkbox"/> Y <input type="checkbox"/> N Sufficient volume sent: <input checked="" type="checkbox"/> Y <input type="checkbox"/> N If Applicable VOA Zero Headspace: <input checked="" type="checkbox"/> Y <input type="checkbox"/> N Preservation Correct/Checked: <input type="checkbox"/> Y <input checked="" type="checkbox"/> N							
Relinquished by: (Signature) <b>Justine McLann</b>		Date: <b>3/20/17</b>	Time: <b>1800</b>	Received by: (Signature)		Trip Blank Received: <input checked="" type="checkbox"/> Yes / No <input type="checkbox"/> No <b>FC / MeOH</b> <b>TBR</b>									
Relinquished by: (Signature) <b>Michelle Blum</b>		Date: <b>03/20/17</b>	Time: <b>1800</b>	Received by: (Signature)		Temp: <b>11.9° C</b> Bottles Received: <b>5011 63</b>		If preservation required by Login: Date/Time							
Relinquished by: (Signature)		Date:	Time:	Received for lab by: (Signature) <b>Michelle Blum</b>		Date: <b>3-21-17</b> Time: <b>9:00</b>		Hold:		Condition: NCF / <b>OK</b>					

## CH2M Hill- Kinder Morgan- Atlanta, GA

Sample Delivery Group: L897486  
Samples Received: 03/22/2017  
Project Number: 684910.LD.RA.ST  
Description: Lewis Drive  
Site: LEWIS DRIVE  
Report To: Bethany Garvey  
6600 Peachtree Dunwoody Road  
400 Embassy Row - Suite 600  
Atlanta, GA 30328

Entire Report Reviewed By:



Chris McCord  
Technical Service Representative

Results relate only to the items tested or calibrated and are reported as rounded values. This test report shall not be reproduced, except in full, without written approval of the laboratory. Where applicable, sampling conducted by ESC is performed per guidance provided in laboratory standard operating procedures: 060302, 060303, and 060304.



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# SAMPLE SUMMARY



## MW-21-032117 L897486-01 GW

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Volatile Organic Compounds (GC/MS) by Method 8260B	WG964354	1	03/28/17 01:11	03/28/17 01:11	ACG

Collected by JM / MW  
 Collected date/time 03/21/17 14:35  
 Received date/time 03/22/17 09:00

<sup>1</sup> Cp

<sup>2</sup> Tc

<sup>3</sup> Ss

## FB-01-032117 L897486-02 GW

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Volatile Organic Compounds (GC/MS) by Method 8260B	WG964354	1	03/28/17 01:24	03/28/17 01:24	ACG

Collected by JM / MW  
 Collected date/time 03/21/17 14:50  
 Received date/time 03/22/17 09:00

<sup>4</sup> Cn

<sup>5</sup> Sr

## TB-01-032117 L897486-03 GW

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Volatile Organic Compounds (GC/MS) by Method 8260B	WG964354	1	03/27/17 22:42	03/27/17 22:42	ACG

Collected by JM / MW  
 Collected date/time 03/21/17 14:55  
 Received date/time 03/22/17 09:00

<sup>6</sup> Qc

<sup>7</sup> Gl

<sup>8</sup> Al

<sup>9</sup> Sc





All sample aliquots were received at the correct temperature, in the proper containers, with the appropriate preservatives, and within method specified holding times. All MDL (LOD) and RDL (LOQ) values reported for environmental samples have been corrected for the dilution factor used in the analysis. All Method and Batch Quality Control are within established criteria except where addressed in this case narrative, a non-conformance form or properly qualified within the sample results. By my digital signature below, I affirm to the best of my knowledge, all problems/anomalies observed by the laboratory as having the potential to affect the quality of the data have been identified by the laboratory, and no information or data have been knowingly withheld that would affect the quality of the data.

Chris McCord  
Technical Service Representative

<sup>1</sup> Cp

<sup>2</sup> Tc

<sup>3</sup> Ss

<sup>4</sup> Cn

<sup>5</sup> Sr

<sup>6</sup> Qc

<sup>7</sup> Gl

<sup>8</sup> Al

<sup>9</sup> Sc



Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result	Qualifier	RDL	Dilution	Analysis date / time	Batch
Benzene	ND		1.00	1	03/28/2017 01:11	<a href="#">WG964354</a>
Toluene	ND		1.00	1	03/28/2017 01:11	<a href="#">WG964354</a>
Ethylbenzene	ND		1.00	1	03/28/2017 01:11	<a href="#">WG964354</a>
Total Xylenes	ND		3.00	1	03/28/2017 01:11	<a href="#">WG964354</a>
Methyl tert-butyl ether	ND		1.00	1	03/28/2017 01:11	<a href="#">WG964354</a>
Naphthalene	ND		5.00	1	03/28/2017 01:11	<a href="#">WG964354</a>
1,2-Dichloroethane	ND		1.00	1	03/28/2017 01:11	<a href="#">WG964354</a>
(S) Toluene-d8	104		80.0-120		03/28/2017 01:11	<a href="#">WG964354</a>
(S) Dibromofluoromethane	97.1		76.0-123		03/28/2017 01:11	<a href="#">WG964354</a>
(S) 4-Bromofluorobenzene	107		80.0-120		03/28/2017 01:11	<a href="#">WG964354</a>

- 1 Cp
- 2 Tc
- 3 Ss
- 4 Cn
- 5 Sr
- 6 Qc
- 7 Gl
- 8 Al
- 9 Sc



Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result	Qualifier	RDL	Dilution	Analysis date / time	Batch
Benzene	ND		1.00	1	03/28/2017 01:24	<a href="#">WG964354</a>
Toluene	ND		1.00	1	03/28/2017 01:24	<a href="#">WG964354</a>
Ethylbenzene	ND		1.00	1	03/28/2017 01:24	<a href="#">WG964354</a>
Total Xylenes	ND		3.00	1	03/28/2017 01:24	<a href="#">WG964354</a>
Methyl tert-butyl ether	ND		1.00	1	03/28/2017 01:24	<a href="#">WG964354</a>
Naphthalene	ND		5.00	1	03/28/2017 01:24	<a href="#">WG964354</a>
1,2-Dichloroethane	ND		1.00	1	03/28/2017 01:24	<a href="#">WG964354</a>
(S) Toluene-d8	107		80.0-120		03/28/2017 01:24	<a href="#">WG964354</a>
(S) Dibromofluoromethane	90.6		76.0-123		03/28/2017 01:24	<a href="#">WG964354</a>
(S) 4-Bromofluorobenzene	107		80.0-120		03/28/2017 01:24	<a href="#">WG964354</a>

- 1 Cp
- 2 Tc
- 3 Ss
- 4 Cn
- 5 Sr
- 6 Qc
- 7 Gl
- 8 Al
- 9 Sc



Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result	Qualifier	RDL	Dilution	Analysis date / time	Batch
Benzene	ND		1.00	1	03/27/2017 22:42	<a href="#">WG964354</a>
Toluene	ND		1.00	1	03/27/2017 22:42	<a href="#">WG964354</a>
Ethylbenzene	ND		1.00	1	03/27/2017 22:42	<a href="#">WG964354</a>
Total Xylenes	ND		3.00	1	03/27/2017 22:42	<a href="#">WG964354</a>
Methyl tert-butyl ether	ND		1.00	1	03/27/2017 22:42	<a href="#">WG964354</a>
Naphthalene	ND		5.00	1	03/27/2017 22:42	<a href="#">WG964354</a>
1,2-Dichloroethane	ND		1.00	1	03/27/2017 22:42	<a href="#">WG964354</a>
(S) Toluene-d8	107		80.0-120		03/27/2017 22:42	<a href="#">WG964354</a>
(S) Dibromofluoromethane	104		76.0-123		03/27/2017 22:42	<a href="#">WG964354</a>
(S) 4-Bromofluorobenzene	107		80.0-120		03/27/2017 22:42	<a href="#">WG964354</a>

- 1 Cp
- 2 Tc
- 3 Ss
- 4 Cn
- 5 Sr
- 6 Qc
- 7 Gl
- 8 Al
- 9 Sc



Method Blank (MB)

(MB) R3206467-3 03/27/17 21:49

Analyte	MB Result	MB Qualifier	MB MDL	MB RDL
	ug/l		ug/l	ug/l
Benzene	U		0.331	1.00
1,2-Dichloroethane	U		0.361	1.00
Ethylbenzene	U		0.384	1.00
Methyl tert-butyl ether	U		0.367	1.00
Naphthalene	U		1.00	5.00
Toluene	U		0.412	1.00
Xylenes, Total	U		1.06	3.00
(S) Toluene-d8	110			80.0-120
(S) Dibromofluoromethane	102			76.0-123
(S) 4-Bromofluorobenzene	107			80.0-120

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R3206467-1 03/27/17 21:08 • (LCSD) R3206467-2 03/27/17 21:22

Analyte	Spike Amount	LCS Result	LCSD Result	LCS Rec.	LCSD Rec.	Rec. Limits	LCS Qualifier	LCSD Qualifier	RPD	RPD Limits
	ug/l	ug/l	ug/l	%	%	%			%	%
Benzene	25.0	25.9	26.0	104	104	70.0-130			0.300	20
1,2-Dichloroethane	25.0	27.0	26.9	108	108	70.0-130			0.0900	20
Ethylbenzene	25.0	25.1	25.7	101	103	70.0-130			2.18	20
Methyl tert-butyl ether	25.0	21.9	26.4	87.5	105	70.0-130			18.6	20
Naphthalene	25.0	28.5	29.2	114	117	70.0-130			2.23	20
Toluene	25.0	24.4	24.0	97.7	96.1	70.0-130			1.61	20
Xylenes, Total	75.0	77.8	74.9	104	99.9	70.0-130			3.80	20
(S) Toluene-d8				104	102	80.0-120				
(S) Dibromofluoromethane				105	105	76.0-123				
(S) 4-Bromofluorobenzene				104	88.3	80.0-120				

L897220-21 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L897220-21 03/28/17 00:44 • (MS) R3206467-4 03/27/17 22:02 • (MSD) R3206467-5 03/27/17 22:15

Analyte	Spike Amount	Original Result	MS Result	MSD Result	MS Rec.	MSD Rec.	Dilution	Rec. Limits	MS Qualifier	MSD Qualifier	RPD	RPD Limits
	ug/l	ug/l	ug/l	ug/l	%	%		%			%	%
Benzene	25.0	801	1170	1050	146	101	10	54.3-133	J5		10.3	20
1,2-Dichloroethane	25.0	ND	271	237	108	94.7	10	60.0-126			13.5	20
Ethylbenzene	25.0	ND	271	283	108	113	10	61.4-133			4.26	20
Methyl tert-butyl ether	25.0	149	429	390	112	96.4	10	57.7-134			9.61	20
Naphthalene	25.0	ND	290	329	110	125	10	58.0-135			12.5	25.5
Toluene	25.0	113	379	362	107	99.8	10	61.4-130			4.56	20
Xylenes, Total	75.0	305	1150	1200	113	119	10	63.3-131			3.92	20



L897220-21 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L897220-21 03/28/17 00:44 • (MS) R3206467-4 03/27/17 22:02 • (MSD) R3206467-5 03/27/17 22:15

Analyte	Spike Amount ug/l	Original Result ug/l	MS Result ug/l	MSD Result ug/l	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
(S) Toluene-d8					104	101		80.0-120				
(S) Dibromofluoromethane					103	100		76.0-123				
(S) 4-Bromofluorobenzene					105	106		80.0-120				

<sup>1</sup> Cp

<sup>2</sup> Tc

<sup>3</sup> Ss

<sup>4</sup> Cn

<sup>5</sup> Sr

<sup>6</sup> Qc

<sup>7</sup> Gl

<sup>8</sup> Al

<sup>9</sup> Sc



Abbreviations and Definitions

SDG	Sample Delivery Group.
MDL	Method Detection Limit.
RDL	Reported Detection Limit.
ND	Not detected at the Reporting Limit (or MDL where applicable).
U	Not detected at the Reporting Limit (or MDL where applicable).
RPD	Relative Percent Difference.
Original Sample	The non-spiked sample in the prep batch used to determine the Relative Percent Difference (RPD) from a quality control sample. The Original Sample may not be included within the reported SDG.
(S)	Surrogate (Surrogate Standard) - Analytes added to every blank, sample, Laboratory Control Sample/Duplicate and Matrix Spike/Duplicate; used to evaluate analytical efficiency by measuring recovery. Surrogates are not expected to be detected in all environmental media.
Rec.	Recovery.

Qualifier	Description
J5	The sample matrix interfered with the ability to make any accurate determination; spike value is high.

<sup>1</sup> Cp

<sup>2</sup> Tc

<sup>3</sup> Ss

<sup>4</sup> Cn

<sup>5</sup> Sr

<sup>6</sup> Qc

<sup>7</sup> Gl

<sup>8</sup> Al

<sup>9</sup> Sc



ESC Lab Sciences is the only environmental laboratory accredited/certified to support your work nationwide from one location. One phone call, one point of contact, one laboratory. No other lab is as accessible or prepared to handle your needs throughout the country. Our capacity and capability from our single location laboratory is comparable to the collective totals of the network laboratories in our industry. The most significant benefit to our "one location" design is the design of our laboratory campus. The model is conducive to accelerated productivity, decreasing turn-around time, and preventing cross contamination, thus protecting sample integrity. Our focus on premium quality and prompt service allows us to be **YOUR LAB OF CHOICE**.  
 \* Not all certifications held by the laboratory are applicable to the results reported in the attached report.

## State Accreditations

Alabama	40660	Nevada	TN-03-2002-34
Alaska	UST-080	New Hampshire	2975
Arizona	AZ0612	New Jersey–NELAP	TN002
Arkansas	88-0469	New Mexico	TN00003
California	01157CA	New York	11742
Colorado	TN00003	North Carolina	Env375
Connecticut	PH-0197	North Carolina <sup>1</sup>	DW21704
Florida	E87487	North Carolina <sup>2</sup>	41
Georgia	NELAP	North Dakota	R-140
Georgia <sup>1</sup>	923	Ohio–VAP	CL0069
Idaho	TN00003	Oklahoma	9915
Illinois	200008	Oregon	TN200002
Indiana	C-TN-01	Pennsylvania	68-02979
Iowa	364	Rhode Island	221
Kansas	E-10277	South Carolina	84004
Kentucky <sup>1</sup>	90010	South Dakota	n/a
Kentucky <sup>2</sup>	16	Tennessee <sup>14</sup>	2006
Louisiana	AI30792	Texas	T 104704245-07-TX
Maine	TN0002	Texas <sup>5</sup>	LAB0152
Maryland	324	Utah	6157585858
Massachusetts	M-TN003	Vermont	VT2006
Michigan	9958	Virginia	109
Minnesota	047-999-395	Washington	C1915
Mississippi	TN00003	West Virginia	233
Missouri	340	Wisconsin	9980939910
Montana	CERT0086	Wyoming	A2LA
Nebraska	NE-OS-15-05		

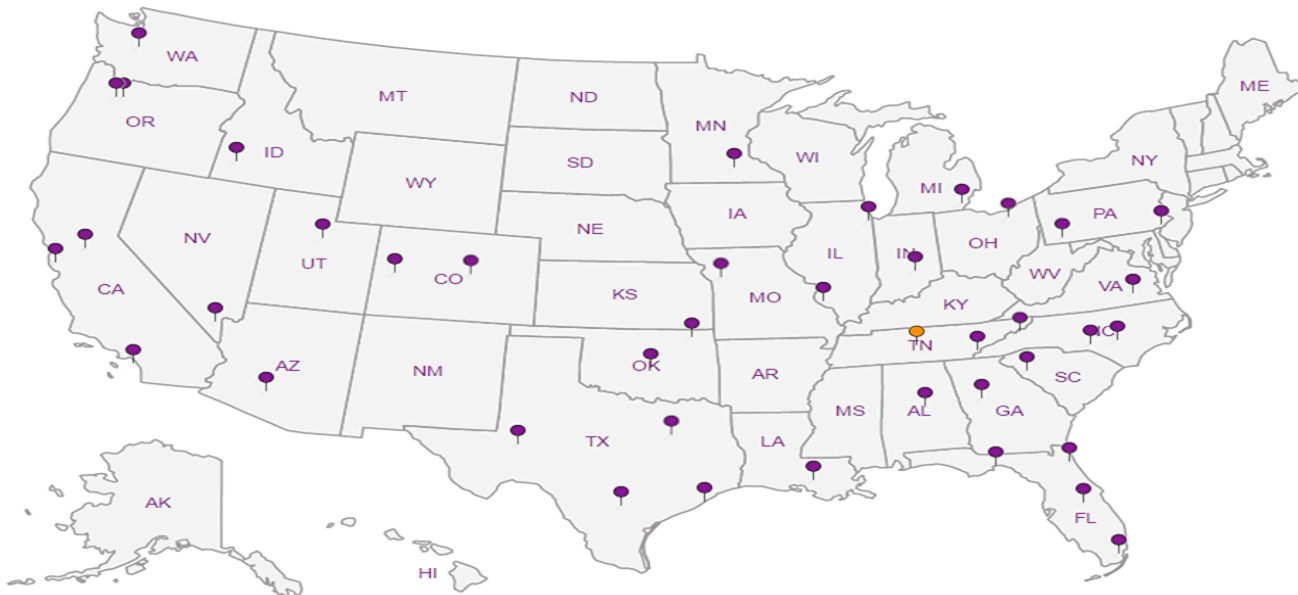
## Third Party & Federal Accreditations

A2LA – ISO 17025	1461.01	AIHA-LAP,LLC	100789
A2LA – ISO 17025 <sup>5</sup>	1461.02	DOD	1461.01
Canada	1461.01	USDA	S-67674
EPA–Crypto	TN00003		

<sup>1</sup> Drinking Water <sup>2</sup> Underground Storage Tanks <sup>3</sup> Aquatic Toxicity <sup>4</sup> Chemical/Microbiological <sup>5</sup> Mold <sup>n/a</sup> Accreditation not applicable

## Our Locations

ESC Lab Sciences has sixty-four client support centers that provide sample pickup and/or the delivery of sampling supplies. If you would like assistance from one of our support offices, please contact our main office. **ESC Lab Sciences performs all testing at our central laboratory.**





**CH2M Hill- Atlanta, GA**  
 6600 Peachtree Dunwoody Road  
 400 Embassy Row - Suite 600  
 Atlanta GA 30328

Billing Information:  
**Accounts Payable**  
 1000 Windward Concourse  
 Ste 450  
 Alpharetta, GA 30005

Report to:  
**Bethany Garvey**

Email To: bgarvey@ch2m.com

Project Description:  
**Lewis Drive Site Surface water event**

City/State Collected:  
**Belton, SC**

Lab Project #  
**KINCH2MGA-LEWIS**

Phone: **770-604-9182**  
 Fax:

Client Project #  
**684910.LD.RA.S**

Site/Facility ID #  
**Lewis Drive**

Collected by (signature):  
*Justin McCann*

Rush? (Lab MUST Be Notified)  
 Same Day  Five Day  
 Next Day  5 Day (Rad Only)  
 Two Day  10 Day (Rad Only)  
 Three Day

Quote #  
 Date Results Needed

Immediately Packed on Ice N  Y

Sample ID	Comp/Grab	Matrix *	Depth	Date	Time	No. of Cntrs	Analysis / Container / Preservative
MW-21-032117	grab	GW	N/A	3/21/17	1435	3	V8260BTEXN 40mlAmb-HCl
FB-01-032117	grab	GW	N/A	3/21/17	1450	3	V8260BTEXNSC-TB 40mlAmb-HCl-Bik
		GW				2	
		GW				2	
		GW				2	
		GW				2	
TRIP BLANK TB-01-032117	grab	GW	N/A	3/21/17	1455	1	X
TRIP-BLANK		GW				1	X

\* Matrix:  
 SS - Soil AIR - Air F - Filter  
 GW - Groundwater B - Bioassay  
 WW - WasteWater  
 DW - Drinking Water  
 OT - Other

Remarks:  
 pH \_\_\_\_\_ Temp \_\_\_\_\_  
 Flow \_\_\_\_\_ Other \_\_\_\_\_  
 Samples returned via:  
 UPS  FedEx  Courier \_\_\_\_\_  
 Tracking # \_\_\_\_\_

Sample Receipt Checklist:  
 COC Seal Present/Intact:  Y  N  
 COC Signed/Accurate:  Y  N  
 Bottles arrive intact:  Y  N  
 Correct bottles used:  Y  N  
 Sufficient volume sent:  Y  N  
 If Applicable  
 VOA Zero Headspace:  Y  N  
 Preservation Correct/Checked:  Y  N

Relinquished by: (Signature)  
*Justin McCann*

Date: **3/21/17**  
 Time: **1730**

Received by: (Signature)  
 Trip Blank Received:  Yes / No  
 HCl / MeOH  
 TBR

Relinquished by: (Signature)

Date: \_\_\_\_\_  
 Time: \_\_\_\_\_

Received by: (Signature)

Temp: **1.1** °C  
 Bottles Received: **6**

If preservation required by Login: Date/Time

Relinquished by: (Signature)

Date: \_\_\_\_\_  
 Time: \_\_\_\_\_

Received for lab by: (Signature)  
*Justin McCann*

Date: **3-22-17**  
 Time: **9:00**

Hold: \_\_\_\_\_  
 Condition: **NCF / OK**

Chain of Custody Page 1 of 1



L.A.B S.C.I.E.N.C.E.S

YOUR LAB OF CHOICE

12065 Lebanon Rd  
 Mount Juliet, TN 37122  
 Phone: 615-758-5858  
 Phone: 800-767-5859  
 Fax: 615-758-5859



L# **897486**

**F128**

Acctnum: **KINCH2MGA**  
 Template: **T120907**  
 Prelogin: **P589495**  
 TSR: **526 - Chris McCord**  
 PB: **TB 2-24-17**  
 Shipped Via: **FedEX Priority**

Remarks	Sample # (lab only)
	01
	02
	03

# Surface Water Analytical Lab Reports

## CH2M Hill- Kinder Morgan- Atlanta, GA

Sample Delivery Group: L897488  
Samples Received: 03/22/2017  
Project Number: 684910.LD.RAST  
Description: Lewis Drive  
Site: LEWIS DRIVE  
Report To: Bethany Garvey  
6600 Peachtree Dunwoody Road  
400 Embassy Row - Suite 600  
Atlanta, GA 30328

Entire Report Reviewed By:



Chris McCord  
Technical Service Representative

Results relate only to the items tested or calibrated and are reported as rounded values. This test report shall not be reproduced, except in full, without written approval of the laboratory. Where applicable, sampling conducted by ESC is performed per guidance provided in laboratory standard operating procedures: 060302, 060303, and 060304.



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# SAMPLE SUMMARY



## SW-11-032117 L897488-01 GW

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Volatile Organic Compounds (GC/MS) by Method 8260B	WG964101	1	03/26/17 06:02	03/26/17 06:02	BMB

Collected by JM / MW  
 Collected date/time 03/21/17 08:15  
 Received date/time 03/22/17 09:00



## SW-10-032117 L897488-02 GW

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Volatile Organic Compounds (GC/MS) by Method 8260B	WG964101	1	03/26/17 06:25	03/26/17 06:25	BMB

Collected by JM / MW  
 Collected date/time 03/21/17 08:30  
 Received date/time 03/22/17 09:00



## FP-01-032117 L897488-03 GW

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Volatile Organic Compounds (GC/MS) by Method 8260B	WG964101	1	03/26/17 06:48	03/26/17 06:48	BMB

Collected by JM / MW  
 Collected date/time 03/21/17 08:40  
 Received date/time 03/22/17 09:00



## FP-02-032117 L897488-04 GW

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Volatile Organic Compounds (GC/MS) by Method 8260B	WG964101	1	03/26/17 07:11	03/26/17 07:11	BMB

Collected by JM / MW  
 Collected date/time 03/21/17 08:50  
 Received date/time 03/22/17 09:00



## SW-09-032117 L897488-05 GW

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Volatile Organic Compounds (GC/MS) by Method 8260B	WG964101	1	03/26/17 07:33	03/26/17 07:33	BMB

Collected by JM / MW  
 Collected date/time 03/21/17 09:00  
 Received date/time 03/22/17 09:00

## SW-08-032117 L897488-06 GW

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Volatile Organic Compounds (GC/MS) by Method 8260B	WG964101	1	03/26/17 07:56	03/26/17 07:56	BMB

Collected by JM / MW  
 Collected date/time 03/21/17 09:05  
 Received date/time 03/22/17 09:00

## SW-13-032117 L897488-07 GW

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Volatile Organic Compounds (GC/MS) by Method 8260B	WG964101	1	03/26/17 08:19	03/26/17 08:19	BMB

Collected by JM / MW  
 Collected date/time 03/21/17 09:15  
 Received date/time 03/22/17 09:00

## SW-04-032117 L897488-08 GW

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Volatile Organic Compounds (GC/MS) by Method 8260B	WG964101	1	03/26/17 08:42	03/26/17 08:42	BMB

Collected by JM / MW  
 Collected date/time 03/21/17 09:45  
 Received date/time 03/22/17 09:00

# SAMPLE SUMMARY



## SW-02-032117 L897488-09 GW

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Collected by JM / MW				Collected date/time 03/21/17 09:50	Received date/time 03/22/17 09:00
Volatile Organic Compounds (GC/MS) by Method 8260B	WG964101	1	03/26/17 09:05	03/26/17 09:05	BMB

1 Cp

2 Tc

## FP-03-032117 L897488-10 GW

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Collected by JM / MW				Collected date/time 03/21/17 10:10	Received date/time 03/22/17 09:00
Volatile Organic Compounds (GC/MS) by Method 8260B	WG964101	1	03/26/17 09:28	03/26/17 09:28	BMB

3 Ss

4 Cn

5 Sr

## SW-01-032117 L897488-11 GW

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Collected by JM / MW				Collected date/time 03/21/17 10:30	Received date/time 03/22/17 09:00
Volatile Organic Compounds (GC/MS) by Method 8260B	WG964101	1	03/26/17 09:50	03/26/17 09:50	BMB

6 Qc

7 Gl

8 Al

## SW-07-032117 L897488-12 GW

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Collected by JM / MW				Collected date/time 03/21/17 10:40	Received date/time 03/22/17 09:00
Volatile Organic Compounds (GC/MS) by Method 8260B	WG964101	1	03/26/17 10:13	03/26/17 10:13	BMB

9 Sc

## SW-12-032117 L897488-13 GW

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Collected by JM / MW				Collected date/time 03/21/17 10:50	Received date/time 03/22/17 09:00
Volatile Organic Compounds (GC/MS) by Method 8260B	WG964101	1	03/26/17 10:36	03/26/17 10:36	BMB
Volatile Organic Compounds (GC/MS) by Method 8260B	WG964101	10	03/28/17 21:28	03/28/17 21:28	LRL

## SW-03-032117 L897488-14 GW

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Collected by JM / MW				Collected date/time 03/21/17 11:00	Received date/time 03/22/17 09:00
Volatile Organic Compounds (GC/MS) by Method 8260B	WG964101	1	03/26/17 10:59	03/26/17 10:59	BMB



All sample aliquots were received at the correct temperature, in the proper containers, with the appropriate preservatives, and within method specified holding times. All MDL (LOD) and RDL (LOQ) values reported for environmental samples have been corrected for the dilution factor used in the analysis. All Method and Batch Quality Control are within established criteria except where addressed in this case narrative, a non-conformance form or properly qualified within the sample results. By my digital signature below, I affirm to the best of my knowledge, all problems/anomalies observed by the laboratory as having the potential to affect the quality of the data have been identified by the laboratory, and no information or data have been knowingly withheld that would affect the quality of the data.

Chris McCord  
Technical Service Representative

<sup>1</sup> Cp

<sup>2</sup> Tc

<sup>3</sup> Ss

<sup>4</sup> Cn

<sup>5</sup> Sr

<sup>6</sup> Qc

<sup>7</sup> Gl

<sup>8</sup> Al

<sup>9</sup> Sc



Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result	Qualifier	RDL	Dilution	Analysis date / time	Batch
Benzene	ND		1.00	1	03/26/2017 06:02	<a href="#">WG964101</a>
Toluene	ND		1.00	1	03/26/2017 06:02	<a href="#">WG964101</a>
Ethylbenzene	ND		1.00	1	03/26/2017 06:02	<a href="#">WG964101</a>
o-Xylene	ND		1.00	1	03/26/2017 06:02	<a href="#">WG964101</a>
m&p-Xylene	ND		2.00	1	03/26/2017 06:02	<a href="#">WG964101</a>
Xylenes, Total	ND		3.00	1	03/26/2017 06:02	<a href="#">WG964101</a>
Naphthalene	ND		5.00	1	03/26/2017 06:02	<a href="#">WG964101</a>
(S) Toluene-d8	106		80.0-120		03/26/2017 06:02	<a href="#">WG964101</a>
(S) Dibromofluoromethane	89.9		76.0-123		03/26/2017 06:02	<a href="#">WG964101</a>
(S) a,a,a-Trifluorotoluene	106		80.0-120		03/26/2017 06:02	<a href="#">WG964101</a>
(S) 4-Bromofluorobenzene	96.9		80.0-120		03/26/2017 06:02	<a href="#">WG964101</a>

- 1 Cp
- 2 Tc
- 3 Ss
- 4 Cn
- 5 Sr
- 6 Qc
- 7 Gl
- 8 Al
- 9 Sc





Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result	Qualifier	RDL	Dilution	Analysis date / time	Batch
Benzene	ND		1.00	1	03/26/2017 06:25	<a href="#">WG964101</a>
Toluene	ND		1.00	1	03/26/2017 06:25	<a href="#">WG964101</a>
Ethylbenzene	ND		1.00	1	03/26/2017 06:25	<a href="#">WG964101</a>
o-Xylene	ND		1.00	1	03/26/2017 06:25	<a href="#">WG964101</a>
m&p-Xylene	ND		2.00	1	03/26/2017 06:25	<a href="#">WG964101</a>
Xylenes, Total	ND		3.00	1	03/26/2017 06:25	<a href="#">WG964101</a>
Naphthalene	ND		5.00	1	03/26/2017 06:25	<a href="#">WG964101</a>
(S) Toluene-d8	106		80.0-120		03/26/2017 06:25	<a href="#">WG964101</a>
(S) Dibromofluoromethane	93.0		76.0-123		03/26/2017 06:25	<a href="#">WG964101</a>
(S) a,a,a-Trifluorotoluene	104		80.0-120		03/26/2017 06:25	<a href="#">WG964101</a>
(S) 4-Bromofluorobenzene	96.4		80.0-120		03/26/2017 06:25	<a href="#">WG964101</a>

- 1 Cp
- 2 Tc
- 3 Ss
- 4 Cn
- 5 Sr
- 6 Qc
- 7 Gl
- 8 Al
- 9 Sc



Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result	Qualifier	RDL	Dilution	Analysis date / time	Batch
Benzene	ND		1.00	1	03/26/2017 06:48	<a href="#">WG964101</a>
Toluene	ND		1.00	1	03/26/2017 06:48	<a href="#">WG964101</a>
Ethylbenzene	ND		1.00	1	03/26/2017 06:48	<a href="#">WG964101</a>
o-Xylene	ND		1.00	1	03/26/2017 06:48	<a href="#">WG964101</a>
m&p-Xylene	ND		2.00	1	03/26/2017 06:48	<a href="#">WG964101</a>
Xylenes, Total	ND		3.00	1	03/26/2017 06:48	<a href="#">WG964101</a>
Naphthalene	ND		5.00	1	03/26/2017 06:48	<a href="#">WG964101</a>
(S) Toluene-d8	106		80.0-120		03/26/2017 06:48	<a href="#">WG964101</a>
(S) Dibromofluoromethane	91.4		76.0-123		03/26/2017 06:48	<a href="#">WG964101</a>
(S) a,a,a-Trifluorotoluene	106		80.0-120		03/26/2017 06:48	<a href="#">WG964101</a>
(S) 4-Bromofluorobenzene	95.3		80.0-120		03/26/2017 06:48	<a href="#">WG964101</a>

- 1 Cp
- 2 Tc
- 3 Ss
- 4 Cn
- 5 Sr
- 6 Qc
- 7 Gl
- 8 Al
- 9 Sc



Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result	Qualifier	RDL	Dilution	Analysis date / time	Batch
Benzene	ND		1.00	1	03/26/2017 07:11	<a href="#">WG964101</a>
Toluene	ND		1.00	1	03/26/2017 07:11	<a href="#">WG964101</a>
Ethylbenzene	ND		1.00	1	03/26/2017 07:11	<a href="#">WG964101</a>
o-Xylene	ND		1.00	1	03/26/2017 07:11	<a href="#">WG964101</a>
m&p-Xylene	ND		2.00	1	03/26/2017 07:11	<a href="#">WG964101</a>
Xylenes, Total	ND		3.00	1	03/26/2017 07:11	<a href="#">WG964101</a>
Naphthalene	ND		5.00	1	03/26/2017 07:11	<a href="#">WG964101</a>
(S) Toluene-d8	107		80.0-120		03/26/2017 07:11	<a href="#">WG964101</a>
(S) Dibromofluoromethane	93.3		76.0-123		03/26/2017 07:11	<a href="#">WG964101</a>
(S) a,a,a-Trifluorotoluene	105		80.0-120		03/26/2017 07:11	<a href="#">WG964101</a>
(S) 4-Bromofluorobenzene	95.7		80.0-120		03/26/2017 07:11	<a href="#">WG964101</a>

- 1 Cp
- 2 Tc
- 3 Ss
- 4 Cn
- 5 Sr
- 6 Qc
- 7 Gl
- 8 Al
- 9 Sc



Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result	Qualifier	RDL	Dilution	Analysis date / time	Batch
Benzene	ND		1.00	1	03/26/2017 07:33	<a href="#">WG964101</a>
Toluene	ND		1.00	1	03/26/2017 07:33	<a href="#">WG964101</a>
Ethylbenzene	ND		1.00	1	03/26/2017 07:33	<a href="#">WG964101</a>
o-Xylene	ND		1.00	1	03/26/2017 07:33	<a href="#">WG964101</a>
m&p-Xylene	ND		2.00	1	03/26/2017 07:33	<a href="#">WG964101</a>
Xylenes, Total	ND		3.00	1	03/26/2017 07:33	<a href="#">WG964101</a>
Naphthalene	ND		5.00	1	03/26/2017 07:33	<a href="#">WG964101</a>
(S) Toluene-d8	106		80.0-120		03/26/2017 07:33	<a href="#">WG964101</a>
(S) Dibromofluoromethane	90.9		76.0-123		03/26/2017 07:33	<a href="#">WG964101</a>
(S) a,a,a-Trifluorotoluene	107		80.0-120		03/26/2017 07:33	<a href="#">WG964101</a>
(S) 4-Bromofluorobenzene	98.0		80.0-120		03/26/2017 07:33	<a href="#">WG964101</a>

- 1 Cp
- 2 Tc
- 3 Ss
- 4 Cn
- 5 Sr
- 6 Qc
- 7 Gl
- 8 Al
- 9 Sc



Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result	Qualifier	RDL	Dilution	Analysis date / time	Batch
Benzene	ND		1.00	1	03/26/2017 07:56	<a href="#">WG964101</a>
Toluene	ND		1.00	1	03/26/2017 07:56	<a href="#">WG964101</a>
Ethylbenzene	ND		1.00	1	03/26/2017 07:56	<a href="#">WG964101</a>
o-Xylene	ND		1.00	1	03/26/2017 07:56	<a href="#">WG964101</a>
m&p-Xylene	ND		2.00	1	03/26/2017 07:56	<a href="#">WG964101</a>
Xylenes, Total	ND		3.00	1	03/26/2017 07:56	<a href="#">WG964101</a>
Naphthalene	ND		5.00	1	03/26/2017 07:56	<a href="#">WG964101</a>
(S) Toluene-d8	106		80.0-120		03/26/2017 07:56	<a href="#">WG964101</a>
(S) Dibromofluoromethane	93.4		76.0-123		03/26/2017 07:56	<a href="#">WG964101</a>
(S) a,a,a-Trifluorotoluene	104		80.0-120		03/26/2017 07:56	<a href="#">WG964101</a>
(S) 4-Bromofluorobenzene	95.9		80.0-120		03/26/2017 07:56	<a href="#">WG964101</a>

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc



Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result	Qualifier	RDL	Dilution	Analysis date / time	Batch
Benzene	ND		1.00	1	03/26/2017 08:19	<a href="#">WG964101</a>
Toluene	ND		1.00	1	03/26/2017 08:19	<a href="#">WG964101</a>
Ethylbenzene	ND		1.00	1	03/26/2017 08:19	<a href="#">WG964101</a>
o-Xylene	ND		1.00	1	03/26/2017 08:19	<a href="#">WG964101</a>
m&p-Xylene	ND		2.00	1	03/26/2017 08:19	<a href="#">WG964101</a>
Xylenes, Total	ND		3.00	1	03/26/2017 08:19	<a href="#">WG964101</a>
Naphthalene	ND		5.00	1	03/26/2017 08:19	<a href="#">WG964101</a>
(S) Toluene-d8	107		80.0-120		03/26/2017 08:19	<a href="#">WG964101</a>
(S) Dibromofluoromethane	90.6		76.0-123		03/26/2017 08:19	<a href="#">WG964101</a>
(S) a,a,a-Trifluorotoluene	107		80.0-120		03/26/2017 08:19	<a href="#">WG964101</a>
(S) 4-Bromofluorobenzene	98.0		80.0-120		03/26/2017 08:19	<a href="#">WG964101</a>

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc



Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result	Qualifier	RDL	Dilution	Analysis date / time	Batch
Benzene	ND		1.00	1	03/26/2017 08:42	<a href="#">WG964101</a>
Toluene	3.28		1.00	1	03/26/2017 08:42	<a href="#">WG964101</a>
Ethylbenzene	ND		1.00	1	03/26/2017 08:42	<a href="#">WG964101</a>
o-Xylene	ND		1.00	1	03/26/2017 08:42	<a href="#">WG964101</a>
m&p-Xylene	ND		2.00	1	03/26/2017 08:42	<a href="#">WG964101</a>
Xylenes, Total	ND		3.00	1	03/26/2017 08:42	<a href="#">WG964101</a>
Naphthalene	ND		5.00	1	03/26/2017 08:42	<a href="#">WG964101</a>
(S) Toluene-d8	106		80.0-120		03/26/2017 08:42	<a href="#">WG964101</a>
(S) Dibromofluoromethane	90.8		76.0-123		03/26/2017 08:42	<a href="#">WG964101</a>
(S) a,a,a-Trifluorotoluene	106		80.0-120		03/26/2017 08:42	<a href="#">WG964101</a>
(S) 4-Bromofluorobenzene	97.6		80.0-120		03/26/2017 08:42	<a href="#">WG964101</a>

- 1 Cp
- 2 Tc
- 3 Ss
- 4 Cn
- 5 Sr
- 6 Qc
- 7 Gl
- 8 Al
- 9 Sc



Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result	Qualifier	RDL	Dilution	Analysis date / time	Batch
Benzene	8.42		1.00	1	03/26/2017 09:05	<a href="#">WG964101</a>
Toluene	2.45		1.00	1	03/26/2017 09:05	<a href="#">WG964101</a>
Ethylbenzene	ND		1.00	1	03/26/2017 09:05	<a href="#">WG964101</a>
o-Xylene	2.68		1.00	1	03/26/2017 09:05	<a href="#">WG964101</a>
m&p-Xylene	2.48		2.00	1	03/26/2017 09:05	<a href="#">WG964101</a>
Xylenes, Total	5.16		3.00	1	03/26/2017 09:05	<a href="#">WG964101</a>
Naphthalene	ND		5.00	1	03/26/2017 09:05	<a href="#">WG964101</a>
(S) Toluene-d8	106		80.0-120		03/26/2017 09:05	<a href="#">WG964101</a>
(S) Dibromofluoromethane	90.7		76.0-123		03/26/2017 09:05	<a href="#">WG964101</a>
(S) a,a,a-Trifluorotoluene	107		80.0-120		03/26/2017 09:05	<a href="#">WG964101</a>
(S) 4-Bromofluorobenzene	99.0		80.0-120		03/26/2017 09:05	<a href="#">WG964101</a>

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc





Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result	Qualifier	RDL	Dilution	Analysis date / time	Batch
Benzene	ND		1.00	1	03/26/2017 09:28	<a href="#">WG964101</a>
Toluene	ND		1.00	1	03/26/2017 09:28	<a href="#">WG964101</a>
Ethylbenzene	ND		1.00	1	03/26/2017 09:28	<a href="#">WG964101</a>
o-Xylene	ND		1.00	1	03/26/2017 09:28	<a href="#">WG964101</a>
m&p-Xylene	ND		2.00	1	03/26/2017 09:28	<a href="#">WG964101</a>
Xylenes, Total	ND		3.00	1	03/26/2017 09:28	<a href="#">WG964101</a>
Naphthalene	ND		5.00	1	03/26/2017 09:28	<a href="#">WG964101</a>
(S) Toluene-d8	106		80.0-120		03/26/2017 09:28	<a href="#">WG964101</a>
(S) Dibromofluoromethane	92.6		76.0-123		03/26/2017 09:28	<a href="#">WG964101</a>
(S) a,a,a-Trifluorotoluene	105		80.0-120		03/26/2017 09:28	<a href="#">WG964101</a>
(S) 4-Bromofluorobenzene	97.5		80.0-120		03/26/2017 09:28	<a href="#">WG964101</a>

- 1 Cp
- 2 Tc
- 3 Ss
- 4 Cn
- 5 Sr
- 6 Qc
- 7 Gl
- 8 Al
- 9 Sc



Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result	Qualifier	RDL	Dilution	Analysis date / time	Batch
Benzene	ND		1.00	1	03/26/2017 09:50	<a href="#">WG964101</a>
Toluene	1.57		1.00	1	03/26/2017 09:50	<a href="#">WG964101</a>
Ethylbenzene	ND		1.00	1	03/26/2017 09:50	<a href="#">WG964101</a>
o-Xylene	ND		1.00	1	03/26/2017 09:50	<a href="#">WG964101</a>
m&p-Xylene	ND		2.00	1	03/26/2017 09:50	<a href="#">WG964101</a>
Xylenes, Total	ND		3.00	1	03/26/2017 09:50	<a href="#">WG964101</a>
Naphthalene	ND		5.00	1	03/26/2017 09:50	<a href="#">WG964101</a>
(S) Toluene-d8	107		80.0-120		03/26/2017 09:50	<a href="#">WG964101</a>
(S) Dibromofluoromethane	93.5		76.0-123		03/26/2017 09:50	<a href="#">WG964101</a>
(S) a,a,a-Trifluorotoluene	105		80.0-120		03/26/2017 09:50	<a href="#">WG964101</a>
(S) 4-Bromofluorobenzene	96.7		80.0-120		03/26/2017 09:50	<a href="#">WG964101</a>

- 1 Cp
- 2 Tc
- 3 Ss
- 4 Cn
- 5 Sr
- 6 Qc
- 7 Gl
- 8 Al
- 9 Sc



Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result	Qualifier	RDL	Dilution	Analysis date / time	Batch
Benzene	ND		1.00	1	03/26/2017 10:13	<a href="#">WG964101</a>
Toluene	ND		1.00	1	03/26/2017 10:13	<a href="#">WG964101</a>
Ethylbenzene	ND		1.00	1	03/26/2017 10:13	<a href="#">WG964101</a>
o-Xylene	ND		1.00	1	03/26/2017 10:13	<a href="#">WG964101</a>
m&p-Xylene	ND		2.00	1	03/26/2017 10:13	<a href="#">WG964101</a>
Xylenes, Total	ND		3.00	1	03/26/2017 10:13	<a href="#">WG964101</a>
Naphthalene	ND		5.00	1	03/26/2017 10:13	<a href="#">WG964101</a>
(S) Toluene-d8	107		80.0-120		03/26/2017 10:13	<a href="#">WG964101</a>
(S) Dibromofluoromethane	91.6		76.0-123		03/26/2017 10:13	<a href="#">WG964101</a>
(S) a,a,a-Trifluorotoluene	106		80.0-120		03/26/2017 10:13	<a href="#">WG964101</a>
(S) 4-Bromofluorobenzene	97.1		80.0-120		03/26/2017 10:13	<a href="#">WG964101</a>

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc



Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result	Qualifier	RDL	Dilution	Analysis	Batch
	ug/l		ug/l		date / time	
Benzene	134		1.00	1	03/26/2017 10:36	<a href="#">WG964101</a>
Toluene	45.0		10.0	10	03/28/2017 21:28	<a href="#">WG964101</a>
Ethylbenzene	12.1		1.00	1	03/26/2017 10:36	<a href="#">WG964101</a>
o-Xylene	33.6		1.00	1	03/26/2017 10:36	<a href="#">WG964101</a>
m&p-Xylene	60.8		2.00	1	03/26/2017 10:36	<a href="#">WG964101</a>
Xylenes, Total	94.4		3.00	1	03/26/2017 10:36	<a href="#">WG964101</a>
Naphthalene	ND		5.00	1	03/26/2017 10:36	<a href="#">WG964101</a>
(S) Toluene-d8	104		80.0-120		03/28/2017 21:28	<a href="#">WG964101</a>
(S) Toluene-d8	107		80.0-120		03/26/2017 10:36	<a href="#">WG964101</a>
(S) Dibromofluoromethane	85.5		76.0-123		03/28/2017 21:28	<a href="#">WG964101</a>
(S) Dibromofluoromethane	94.5		76.0-123		03/26/2017 10:36	<a href="#">WG964101</a>
(S) a,a,a-Trifluorotoluene	106		80.0-120		03/26/2017 10:36	<a href="#">WG964101</a>
(S) a,a,a-Trifluorotoluene	108		80.0-120		03/28/2017 21:28	<a href="#">WG964101</a>
(S) 4-Bromofluorobenzene	93.2		80.0-120		03/28/2017 21:28	<a href="#">WG964101</a>
(S) 4-Bromofluorobenzene	96.4		80.0-120		03/26/2017 10:36	<a href="#">WG964101</a>

- 1 Cp
- 2 Tc
- 3 Ss
- 4 Cn
- 5 Sr
- 6 Qc
- 7 Gl
- 8 Al
- 9 Sc



Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result	Qualifier	RDL	Dilution	Analysis date / time	Batch
Benzene	ND		1.00	1	03/26/2017 10:59	<a href="#">WG964101</a>
Toluene	ND		1.00	1	03/26/2017 10:59	<a href="#">WG964101</a>
Ethylbenzene	ND		1.00	1	03/26/2017 10:59	<a href="#">WG964101</a>
o-Xylene	ND		1.00	1	03/26/2017 10:59	<a href="#">WG964101</a>
m&p-Xylene	ND		2.00	1	03/26/2017 10:59	<a href="#">WG964101</a>
Xylenes, Total	ND		3.00	1	03/26/2017 10:59	<a href="#">WG964101</a>
Naphthalene	ND		5.00	1	03/26/2017 10:59	<a href="#">WG964101</a>
(S) Toluene-d8	106		80.0-120		03/26/2017 10:59	<a href="#">WG964101</a>
(S) Dibromofluoromethane	90.8		76.0-123		03/26/2017 10:59	<a href="#">WG964101</a>
(S) a,a,a-Trifluorotoluene	106		80.0-120		03/26/2017 10:59	<a href="#">WG964101</a>
(S) 4-Bromofluorobenzene	97.1		80.0-120		03/26/2017 10:59	<a href="#">WG964101</a>

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc



Method Blank (MB)

(MB) R3206416-3 03/26/17 05:16

Analyte	MB Result	MB Qualifier	MB MDL	MB RDL
	ug/l		ug/l	ug/l
Benzene	U		0.331	1.00
Ethylbenzene	U		0.384	1.00
Naphthalene	U		1.00	5.00
Toluene	U		0.412	1.00
Xylenes, Total	U		1.06	3.00
o-Xylene	U		0.341	1.00
m&p-Xylenes	U		0.719	2.00
(S) Toluene-d8	106			80.0-120
(S) Dibromofluoromethane	90.4			76.0-123
(S) a,a,a-Trifluorotoluene	106			80.0-120
(S) 4-Bromofluorobenzene	96.5			80.0-120

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R3206416-1 03/26/17 04:08 • (LCSD) R3206416-2 03/26/17 04:30

Analyte	Spike Amount	LCS Result	LCSD Result	LCS Rec.	LCSD Rec.	Rec. Limits	LCS Qualifier	LCSD Qualifier	RPD	RPD Limits
	ug/l	ug/l	ug/l	%	%	%			%	%
Benzene	25.0	27.3	26.9	109	108	70.0-130			1.31	20
Ethylbenzene	25.0	22.0	21.7	87.8	86.8	70.0-130			1.18	20
Naphthalene	25.0	26.9	26.6	108	106	70.0-130			1.17	20
Toluene	25.0	26.4	26.2	106	105	70.0-130			0.680	20
Xylenes, Total	75.0	67.6	66.0	90.1	88.0	70.0-130			2.40	20
o-Xylene	25.0	22.5	22.0	90.1	87.9	70.0-130			2.54	20
m&p-Xylenes	50.0	45.1	44.0	90.2	87.9	70.0-130			2.58	20
(S) Toluene-d8				108	109	80.0-120				
(S) Dibromofluoromethane				92.9	93.0	76.0-123				
(S) a,a,a-Trifluorotoluene				106	107	80.0-120				
(S) 4-Bromofluorobenzene				96.0	95.6	80.0-120				



## Abbreviations and Definitions

SDG	Sample Delivery Group.
MDL	Method Detection Limit.
RDL	Reported Detection Limit.
ND	Not detected at the Reporting Limit (or MDL where applicable).
U	Not detected at the Reporting Limit (or MDL where applicable).
RPD	Relative Percent Difference.
(S)	Surrogate (Surrogate Standard) - Analytes added to every blank, sample, Laboratory Control Sample/Duplicate and Matrix Spike/Duplicate; used to evaluate analytical efficiency by measuring recovery. Surrogates are not expected to be detected in all environmental media.
Rec.	Recovery.

## Qualifier                      Description

The remainder of this page intentionally left blank, there are no qualifiers applied to this SDG.

<sup>1</sup> Cp

<sup>2</sup> Tc

<sup>3</sup> Ss

<sup>4</sup> Cn

<sup>5</sup> Sr

<sup>6</sup> Qc

<sup>7</sup> Gl

<sup>8</sup> Al

<sup>9</sup> Sc



ESC Lab Sciences is the only environmental laboratory accredited/certified to support your work nationwide from one location. One phone call, one point of contact, one laboratory. No other lab is as accessible or prepared to handle your needs throughout the country. Our capacity and capability from our single location laboratory is comparable to the collective totals of the network laboratories in our industry. The most significant benefit to our "one location" design is the design of our laboratory campus. The model is conducive to accelerated productivity, decreasing turn-around time, and preventing cross contamination, thus protecting sample integrity. Our focus on premium quality and prompt service allows us to be **YOUR LAB OF CHOICE**.  
 \* Not all certifications held by the laboratory are applicable to the results reported in the attached report.



## State Accreditations

Alabama	40660	Nevada	TN-03-2002-34
Alaska	UST-080	New Hampshire	2975
Arizona	AZ0612	New Jersey–NELAP	TN002
Arkansas	88-0469	New Mexico	TN00003
California	01157CA	New York	11742
Colorado	TN00003	North Carolina	Env375
Connecticut	PH-0197	North Carolina <sup>1</sup>	DW21704
Florida	E87487	North Carolina <sup>2</sup>	41
Georgia	NELAP	North Dakota	R-140
Georgia <sup>1</sup>	923	Ohio–VAP	CL0069
Idaho	TN00003	Oklahoma	9915
Illinois	200008	Oregon	TN200002
Indiana	C-TN-01	Pennsylvania	68-02979
Iowa	364	Rhode Island	221
Kansas	E-10277	South Carolina	84004
Kentucky <sup>1</sup>	90010	South Dakota	n/a
Kentucky <sup>2</sup>	16	Tennessee <sup>14</sup>	2006
Louisiana	AI30792	Texas	T 104704245-07-TX
Maine	TN0002	Texas <sup>5</sup>	LAB0152
Maryland	324	Utah	6157585858
Massachusetts	M-TN003	Vermont	VT2006
Michigan	9958	Virginia	109
Minnesota	047-999-395	Washington	C1915
Mississippi	TN00003	West Virginia	233
Missouri	340	Wisconsin	9980939910
Montana	CERT0086	Wyoming	A2LA
Nebraska	NE-OS-15-05		

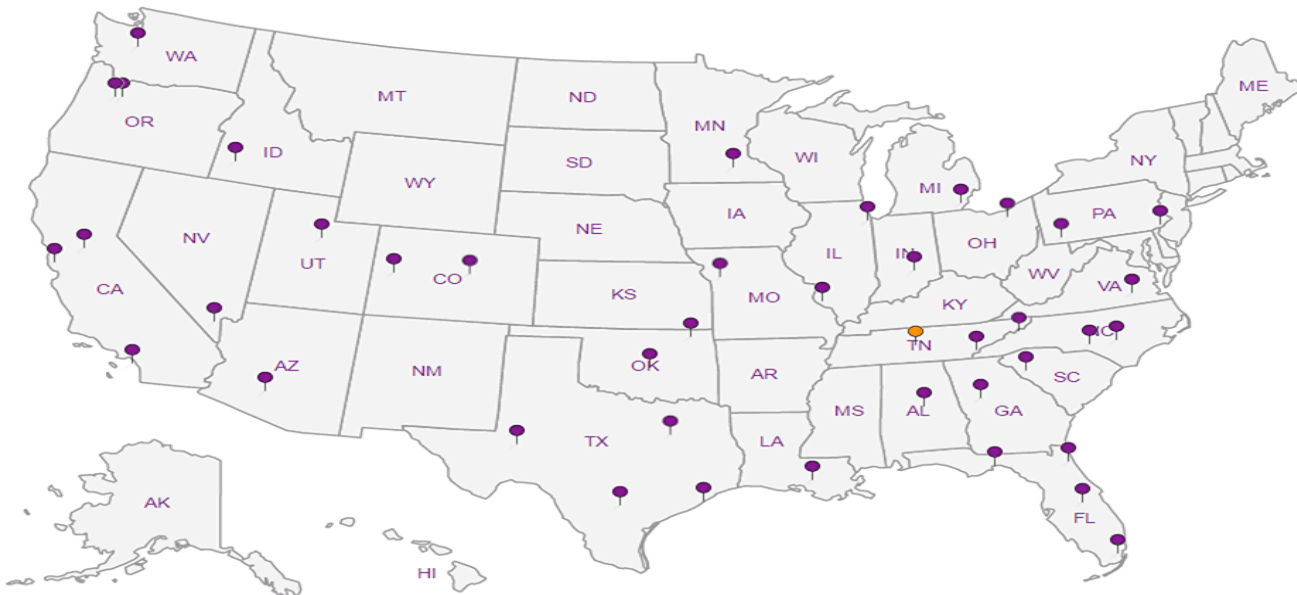
## Third Party & Federal Accreditations

A2LA – ISO 17025	1461.01	AIHA-LAP,LLC	100789
A2LA – ISO 17025 <sup>5</sup>	1461.02	DOD	1461.01
Canada	1461.01	USDA	S-67674
EPA–Crypto	TN00003		


<sup>1</sup> Drinking Water <sup>2</sup> Underground Storage Tanks <sup>3</sup> Aquatic Toxicity <sup>4</sup> Chemical/Microbiological <sup>5</sup> Mold <sup>n/a</sup> Accreditation not applicable

## Our Locations

ESC Lab Sciences has sixty-four client support centers that provide sample pickup and/or the delivery of sampling supplies. If you would like assistance from one of our support offices, please contact our main office. **ESC Lab Sciences performs all testing at our central laboratory.**





<b>CH2M Hill- Kinder Morgan- Atlanta, GA</b> 6600 Peachtree Dunwoody Road		Billing Information: <b>Accounts Payable</b> 1000 Windward Concourse Ste 450 Alpharetta, GA 30005		Pres Chk <b>HCI</b>	Analysis / Container / Preservative							Chain of Custody Page 1 of 2  L.A.B S.C.I.E.N.C.E.S YOUR LAB OF CHOICE 12065 Lebanon Rd Mount Juliet, TN 37122 Phone: 615-758-5858 Phone: 800-767-5859 Fax: 615-758-5859									
Report to: <b>Bethany Garvey</b>		Email To: bgarvey@ch2m.com		V822608TEXNSC 40miAmb-HCI																	
Project Description: <b>Lewis Drive</b>		City/State Collected: <b>Belton, SC</b>																			
Phone: <b>770-604-9182</b> Fax:		Client Project # <b>684910.LD.RAST</b>			Lab Project # <b>KINCH2MGA-LEWIS</b>																
Collected by (print): <b>Justin McLann</b>		Site/Facility ID # <b>Lewis Drive</b>			P.O. #																
Collected by (signature): <b>Justin McLann</b>		Rush? (Lab MUST Be Notified) <input type="checkbox"/> Same Day <input checked="" type="checkbox"/> Five Day <input type="checkbox"/> Next Day <input type="checkbox"/> 5 Day (Rad Only) <input type="checkbox"/> Two Day <input type="checkbox"/> 10 Day (Rad Only) <input type="checkbox"/> Three Day			Quote #																
Immediately Packed on Ice N <input type="checkbox"/> Y <input checked="" type="checkbox"/>		Date Results Needed			No. of Cntrs																
Sample ID		Comp/Grab	Matrix *		Depth	Date	Time	Cntrs	X	X	X	X	X	X	X	X	X	X	X	X	X
<b>SW-11-032117</b>		<b>grab</b>	<b>GW</b>		<b>N/A</b>	<b>3/21/17</b>	<b>0815</b>	<b>3</b>	<b>X</b>												
<b>SW-10-032117</b>			<b>GW</b>				<b>0830</b>	<b>3</b>	<b>X</b>												
<b>FP-01-032117</b>			<b>GW</b>				<b>0840</b>	<b>3</b>	<b>X</b>												
<b>FP-02-032117</b>			<b>GW</b>			<b>0850</b>	<b>3</b>	<b>X</b>													
<b>SW-09-032117</b>			<b>GW</b>			<b>0900</b>	<b>3</b>	<b>X</b>													
<b>SW-08-032117</b>			<b>GW</b>			<b>0905</b>	<b>3</b>	<b>X</b>													
<b>SW-13-032117</b>			<b>GW</b>			<b>0915</b>	<b>3</b>	<b>X</b>													
<b>SW-04-032117</b>			<b>GW</b>			<b>0945</b>	<b>3</b>	<b>X</b>													
<b>SW-02-032117</b>			<b>GW</b>			<b>1010</b>	<b>3</b>	<b>X</b>													
<b>FP-03-032117</b>			<b>GW</b>			<b>1010</b>	<b>3</b>	<b>X</b>													
* Matrix: SS - Soil AIR - Air F - Filter GW - Groundwater B - Bioassay WW - WasteWater DW - Drinking Water OT - Other		Remarks:		Samples returned via: <input type="checkbox"/> UPS <input checked="" type="checkbox"/> FedEx <input type="checkbox"/> Courier		Tracking #		pH _____ Temp _____ Flow _____ Other _____		Sample Receipt Checklist: COC Seal Present/Intact: <input type="checkbox"/> Y <input checked="" type="checkbox"/> N COC Signed/Accurate: <input type="checkbox"/> Y <input checked="" type="checkbox"/> N Bottles arrive intact: <input type="checkbox"/> Y <input checked="" type="checkbox"/> N Correct bottles used: <input type="checkbox"/> Y <input checked="" type="checkbox"/> N Sufficient volume sent: <input type="checkbox"/> Y <input checked="" type="checkbox"/> N If Applicable VOA Zero Headpace: <input type="checkbox"/> Y <input checked="" type="checkbox"/> N Preservation Correct/Checked: <input type="checkbox"/> Y <input checked="" type="checkbox"/> N											
Relinquished by: (Signature) <b>Justin McLann</b>		Date: <b>3/21/17</b>	Time: <b>1730</b>	Received by: (Signature)		Trip Blank Received: Yes/No HCL/ MeOH TBA		Temp: _____ °C <b>1.7</b>		Bottles Received: <b>42</b>		If preservation required by Login: Date/Time									
Relinquished by: (Signature)		Date:	Time:	Received by: (Signature)		Date:		Time:		Hold:		Condition: NCF / <b>08</b>									
Relinquished by: (Signature)		Date:	Time:	Received for lab by: (Signature) <b>Justin McLann</b>		Date: <b>3-22-17</b>		Time: <b>900</b>		Hold:		Condition:									

**CH2M Hill- Kinder Morgan- Atlanta, GA**  
 6600 Peachtree Dunwoody Road  
 Report to: **Bethany Garvey**

Billing Information:  
**Accounts Payable**  
 1000 Windward Concourse  
 Ste 450  
 Alpharetta, GA 30005  
 Email To: bgarvey@ch2m.com

Pres Chk **HCI**

Chain of Custody Page **2 of 2**



**ESC**  
 L.A.B S.C.I.E.N.C.E.S

**YOUR LAB OF CHOICE**

12065 Lebanon Rd  
 Mount Juliet, TN 37122  
 Phone: 615-758-5858  
 Phone: 800-767-5859  
 Fax: 615-758-5859



Project Description: **Lewis Drive**

City/State Collected: **Belton, SC**

Client Project #  
**6849.10.LD.RAST**

Lab Project #  
**KINCH2MGA-LEWIS**

Site/Facility ID #  
**Lewis Drive**

Collected by (signature):  
**Justine McLann**

**Rush?** (Lab MUST Be Notified)  
 Same Day  Five Day  
 Next Day  5 Day (Rad Only)  
 Two Day  10 Day (Rad Only)  
 Three Day

Quote #

Immedietely Packed on Ice N  Y

Date Results Needed

No. of Cntrs

V8260BTEXNSC 40mlAmb-HCI

L# **897488**

Table #

Acctnum: **KINCH2MGA**

Template: **T121697**

Prelogin: **P593581**

TSR: **526 - Chris McCord**

PB: **3-17-17**

Shipped Via: **FedEX Priority**

Sample ID	Comp/Grab	Matrix *	Depth	Date	Time	No. of Cntrs													
SW-01-032117	grab	GW	N/A	3/21/17	1030	3	X												
SW-07-032117	↓	GW	↓	↓	1040	3	X												
SW-12-032117	↓	GW	↓	↓	1050	3	X												
SW-03-032117	↓	GW	↓	↓	1100	3	X												
		GW				3	X												

\* Matrix:  
 SS - Soil AIR - Air F - Filter  
 GW - Groundwater B - Bioassay  
 WW - WasteWater  
 DW - Drinking Water  
 OT - Other

Remarks:

Samples returned via:  
 UPS  FedEx  Courier

Tracking #

pH \_\_\_\_\_ Temp \_\_\_\_\_  
 Flow \_\_\_\_\_ Other \_\_\_\_\_

**Sample Receipt Checklist**

COC Seal Present/Intact:  HP  N

COC Signed/Accurate:  N

Bottles arrive intact:  N

Correct bottles used:  N

Sufficient volume sent:  N

**If Applicable**

VOA Zero Headspace:  N

Preservation Correct/Checked:  N

Relinquished by: (Signature)  
**Justine McLann**

Date: **3/21/17**

Time: **1730**

Relinquished by: (Signature)

Date:

Time:

Relinquished by: (Signature)

Date:

Time:

Received by: (Signature)

Trip Blank Received: Yes / No  
 HCL / MeOH  
 TBR

Temp: **1.7** °C

Bottles Received: **YL**

Received for lab by: (Signature)  
**Nehyker**

Date: **3-22-17**

Time: **900**

If preservation required by Login: Date/Time

Hold:

Condition:  
 NCF **108**

Air Monitoring Output

17/03/20 11:42

\*\*\*\*\*

Summary

Unit Name MultiRAE(PGM-6228)
Unit SN MBB3Z064Q8
Unit Firmware Ver V1.31

Running Mode Hygiene Mode
Datalog Mode Auto
Diagnostic Mode No
Stop Reason Schedule Stop

Site ID 194
User ID 0

Begin 3/20/2017 11:42:48
End 3/21/2017 11:42:47
Sample Period(s) 600
Number of Records 144

Sensor LEL(%LEL) OXY(%) H2S(ppm) CO(ppm) VOC(ppm)
Sensor SN SC0311128 SC0342108 SC03AR00 SC0306033 SC03A40150Q7

Table with 22 columns: Measure, Type, Min, Avg, Max, Real, Min, Avg, Max, Real, Min, Avg, Max, Real, Min, Avg, Max, Real, Min, Avg, Max, Real. Rows include Span, Low Alarm, High Alarm, Over Alarm, STEL Alarm, TWA Alarm, Calibration Time, Peak, Min, Average.

\*\*\*\*\*

Datalog

Table with 22 columns: Index, Date/Time, LEL(%LEL) (Min), LEL(%LEL) (Avg), LEL(%LEL) (Max), LEL(%LEL) (Real), OXY(%) (Min), OXY(%) (Avg), OXY(%) (Max), OXY(%) (Real), H2S(ppm) (Min), H2S(ppm) (Avg), H2S(ppm) (Max), H2S(ppm) (Real), CO(ppm) (Min), CO(ppm) (Avg), CO(ppm) (Max), CO(ppm) (Real), VOC(ppm) (Min), VOC(ppm) (Avg), VOC(ppm) (Max), VOC(ppm) (Real). Rows 1-13.

14	3/20/2017	14:02:48	0	0	0	0	20.9	20.9	20.9	20.9	0	0	0	0	0	0	0	0	0	0.1	0.7	0.3
15	3/20/2017	14:12:48	0	0	0	0	20.9	20.9	20.9	20.9	0	0	0	0	0	0	0	0	0	0.2	0.7	0.1
16	3/20/2017	14:22:48	0	0	0	0	20.9	20.9	20.9	20.9	0	0	0	0	0	0	0	0	0	0	0.2	0
17	3/20/2017	14:32:48	0	0	0	0	20.9	20.9	20.9	20.9	0	0	0	0	0	0	0	0	0	0.1	0.6	0
18	3/20/2017	14:42:48	0	0	0	0	20.9	20.9	20.9	20.9	0	0	0	0	0	0	0	0	0	0.1	0.5	0.1
19	3/20/2017	14:52:48	0	0	0	0	20.9	20.9	20.9	20.9	0	0	0	0	0	0	0	0	0	0.1	0.6	0.6
20	3/20/2017	15:02:48	0	0	0	0	20.9	20.9	20.9	20.9	0	0	0	0	0	0	0	0	0	0.1	0.6	0.2
21	3/20/2017	15:12:48	0	0	0	0	20.9	20.9	20.9	20.9	0	0	0	0	0	0	0	0	0	0.1	0.6	0
22	3/20/2017	15:22:48	0	0	0	0	20.9	20.9	20.9	20.9	0	0	0	0	0	0	0	0	0	0	0.7	0
23	3/20/2017	15:32:48	0	0	0	0	20.9	20.9	20.9	20.9	0	0	0	0	0	0	0	0	0	0	0.3	0.1
24	3/20/2017	15:42:48	0	0	0	0	20.9	20.9	20.9	20.9	0	0	0	0	0	0	0	0	0	0.2	0.7	0.1
25	3/20/2017	15:52:48	0	0	0	0	20.9	20.9	20.9	20.9	0	0	0	0	0	0	0	0	0	0.2	0.7	0.1
26	3/20/2017	16:02:48	0	0	0	0	20.9	20.9	20.9	20.9	0	0	0	0	0	0	0	0	0	0.1	0.5	0
27	3/20/2017	16:12:48	0	0	0	0	20.9	20.9	20.9	20.9	0	0	0	0	0	0	0	0	0	0.3	1.3	0.9
28	3/20/2017	16:22:48	0	0	0	0	20.9	20.9	20.9	20.9	0	0	0	0	0	0	0	0	0	0.1	0.8	0
29	3/20/2017	16:32:48	0	0	0	0	20.9	20.9	20.9	20.9	0	0	0	0	0	0	0	0	0	0	0.1	0
30	3/20/2017	16:42:48	0	0	0	0	20.9	20.9	20.9	20.9	0	0	0	0	0	0	0	0	0	0.1	0.4	0
31	3/20/2017	16:52:48	0	0	0	0	20.9	20.9	20.9	20.9	0	0	0	0	0	0	0	0	0	0	0.3	0.3
32	3/20/2017	17:02:48	0	0	0	0	20.9	20.9	20.9	20.9	0	0	0	0	0	0	0	0	0	0	0.3	0.1
33	3/20/2017	17:12:48	0	0	0	0	20.9	20.9	20.9	20.9	0	0	0	0	0	0	0	0	0	0.1	0.3	0.1
34	3/20/2017	17:22:48	0	0	0	0	20.9	20.9	20.9	20.9	0	0	0	0	0	0	0	0	0	0.1	0.8	0
35	3/20/2017	17:32:48	0	0	0	0	20.9	20.9	20.9	20.9	0	0	0	0	0	0	0	0	0	0.1	0.5	0.1
36	3/20/2017	17:42:48	0	0	0	0	20.9	20.9	20.9	20.9	0	0	0	0	0	0	0	0	0	0.1	0.5	0
37	3/20/2017	17:52:48	0	0	0	0	20.9	20.9	20.9	20.9	0	0	0	0	0	0	0	0	0	0.1	0.3	0.3
38	3/20/2017	18:02:48	0	0	0	0	20.9	20.9	20.9	20.9	0	0	0	0	0	0	0	0	0	0.1	0.6	0.2
39	3/20/2017	18:12:48	0	0	0	0	20.9	20.9	20.9	20.9	0	0	0	0	0	0	0	0	0	0.2	0.7	0
40	3/20/2017	18:22:48	0	0	0	0	20.9	20.9	20.9	20.9	0	0	0	0	0	0	0	0	0	0.2	0.3	0.1
41	3/20/2017	18:32:48	0	0	0	0	20.9	20.9	20.9	20.9	0	0	0	0	0	0	0	0	0	0.3	1.1	0
42	3/20/2017	18:42:48	0	0	0	0	20.9	20.9	20.9	20.9	0	0	0	0	0	0	0	0	0	0.1	0.9	0.9
43	3/20/2017	18:52:48	0	0	0	0	20.9	20.9	20.9	20.9	0	0	0	0	0	0	0	0	0.1	0.4	0.9	0.2
44	3/20/2017	19:02:48	0	0	0	0	20.9	20.9	20.9	20.9	0	0	0	0	0	0	0	0	0	0.1	0.4	0
45	3/20/2017	19:12:48	0	0	0	0	20.9	20.9	20.9	20.9	0	0	0	0	0	0	0	0	0	0	0	0
46	3/20/2017	19:22:48	0	0	0	0	20.9	20.9	20.9	20.9	0	0	0	0	0	0	0	0	0	0.4	1.1	0.4
47	3/20/2017	19:32:48	0	0	0	0	20.9	20.9	20.9	20.9	0	0	0	0	0	0	0	0	0	0.1	0.4	0
48	3/20/2017	19:42:48	0	0	0	0	20.9	20.9	20.9	20.9	0	0	0	0	0	0	0	0	0	0.1	0.8	0.1
49	3/20/2017	19:52:48	0	0	0	0	20.9	20.9	20.9	20.9	0	0	0	0	0	0	0	0	0	0.1	1	0.4
50	3/20/2017	20:02:48	0	0	0	0	20.9	20.9	20.9	20.9	0	0	0	0	0	0	0	0	0	0.1	0.6	0.6
51	3/20/2017	20:12:48	0	0	0	0	20.9	20.9	20.9	20.9	0	0	0	0	0	0	0	0	0	0.3	1.3	0.1
52	3/20/2017	20:22:48	0	0	0	0	20.9	20.9	20.9	20.9	0	0	0	0	0	0	0	0	0.1	0.3	1.4	0.2
53	3/20/2017	20:32:48	0	0	0	0	20.9	20.9	20.9	20.9	0	0	0	0	0	0	0	0	0	0.1	0.4	0
54	3/20/2017	20:42:48	0	0	0	0	20.9	20.9	20.9	20.9	0	0	0	0	0	0	0	0	0	0	0.1	0
55	3/20/2017	20:52:48	0	0	0	0	20.9	20.9	20.9	20.9	0	0	0	0	0	0	0	0	0	0	0.1	0
56	3/20/2017	21:02:48	0	0	0	0	20.9	20.9	20.9	20.9	0	0	0	0	0	0	0	0	0	0	0.2	0
57	3/20/2017	21:12:48	0	0	0	0	20.9	20.9	20.9	20.9	0	0	0	0	0	0	0	0	0	0	0.3	0
58	3/20/2017	21:22:48	0	0	0	0	20.9	20.9	20.9	20.9	0	0	0	0	0	0	0	0	0	0	0.1	0
59	3/20/2017	21:32:48	0	0	0	0	20.9	20.9	20.9	20.9	0	0	0	0	0	0	0	0	0	0	0.1	0
60	3/20/2017	21:42:48	0	0	0	0	20.9	20.9	20.9	20.9	0	0	0	0	0	0	0	0	0	0	0.1	0
61	3/20/2017	21:52:48	0	0	0	0	20.9	20.9	20.9	20.9	0	0	0	0	0	0	0	0	0	0	0.1	0
62	3/20/2017	22:02:48	0	0	0	0	20.9	20.9	20.9	20.9	0	0	0	0	0	0	0	0	0	0	0.1	0
63	3/20/2017	22:12:48	0	0	0	0	20.9	20.9	20.9	20.9	0	0	0	0	0	0	0	0	0	0	0	0
64	3/20/2017	22:22:48	0	0	0	0	20.9	20.9	20.9	20.9	0	0	0	0	0	0	0	0	0	0	0.5	0
65	3/20/2017	22:32:48	0	0	0	0	20.9	20.9	20.9	20.9	0	0	0	0	0	0	0	0	0	0	0	0
66	3/20/2017	22:42:48	0	0	0	0	20.9	20.9	20.9	20.9	0	0	0	0	0	0	0	0	0	0	0	0
67	3/20/2017	22:52:48	0	0	0	0	20.9	20.9	20.9	20.9	0	0	0	0	0	0	0	0	0	0	0.2	0
68	3/20/2017	23:02:48	0	0	0	0	20.9	20.9	20.9	20.9	0	0	0	0	0	0	0	0	0	0.3	0.9	0.3

69	3/20/2017	23:12:48	0	0	0	0	20.9	20.9	20.9	20.9	0	0	0	0	0	0	0	0	0	0.2	2.6	0
70	3/20/2017	23:22:48	0	0	0	0	20.9	20.9	20.9	20.9	0	0	0	0	0	0	0	0	0	0	0.1	0
71	3/20/2017	23:32:48	0	0	0	0	20.9	20.9	20.9	20.9	0	0	0	0	0	0	0	0	0	0.1	0.8	0
72	3/20/2017	23:42:48	0	0	0	0	20.9	20.9	20.9	20.9	0	0	0	0	0	0	0	0	0	0	0.1	0
73	3/20/2017	23:52:48	0	0	0	0	20.9	20.9	20.9	20.9	0	0	0	0	0	0	0	0	0	0	0.1	0
74	3/21/2017	0:02:48	0	0	0	0	20.9	20.9	20.9	20.9	0	0	0	0	0	0	0	0	0	0.1	0.3	0.1
75	3/21/2017	0:12:48	0	0	0	0	20.9	20.9	20.9	20.9	0	0	0	0	0	0	0	0	0.1	0.2	0.8	0.7
76	3/21/2017	0:22:48	0	0	0	0	20.9	20.9	20.9	20.9	0	0	0	0	0	0	0	0	0.4	1	2.4	2
77	3/21/2017	0:32:48	0	0	0	0	20.9	20.9	20.9	20.9	0	0	0	0	0	0	0	0	0.1	0.5	1.9	0.2
78	3/21/2017	0:42:48	0	0	0	0	20.9	20.9	20.9	20.9	0	0	0	0	0	0	0	0	0.1	0.3	0.6	0.3
79	3/21/2017	0:52:48	0	0	0	0	20.9	20.9	20.9	20.9	0	0	0	0	0	0	0	0	0	0.1	0.4	0.1
80	3/21/2017	1:02:48	0	0	0	0	20.9	20.9	20.9	20.9	0	0	0	0	0	0	0	0	0	0.1	0.3	0.1
81	3/21/2017	1:12:48	0	0	0	0	20.9	20.9	20.9	20.9	0	0	0	0	0	0	0	0	0	0.1	0.5	0.2
82	3/21/2017	1:22:48	0	0	0	0	20.9	20.9	20.9	20.9	0	0	0	0	0	0	0	0	0	0.1	0.7	0.1
83	3/21/2017	1:32:48	0	0	0	0	20.9	20.9	20.9	20.9	0	0	0	0	0	0	0	0	0	0	0.2	0
84	3/21/2017	1:42:48	0	0	0	0	20.9	20.9	20.9	20.9	0	0	0	0	0	0	0	0	0	0.1	0.3	0
85	3/21/2017	1:52:48	0	0	0	0	20.9	20.9	20.9	20.9	0	0	0	0	0	0	0	0	0	0	0.2	0
86	3/21/2017	2:02:48	0	0	0	0	20.9	20.9	20.9	20.9	0	0	0	0	0	0	0	0	0	0	0.2	0
87	3/21/2017	2:12:48	0	0	0	0	20.9	20.9	20.9	20.9	0	0	0	0	0	0	0	0	0	0.1	0.6	0.2
88	3/21/2017	2:22:48	0	0	0	0	20.9	20.9	20.9	20.9	0	0	0	0	0	0	0	0	0	0.1	0.4	0
89	3/21/2017	2:32:48	0	0	0	0	20.9	20.9	20.9	20.9	0	0	0	0	0	0	0	0	0	0.1	0.7	0.1
90	3/21/2017	2:42:48	0	0	0	0	20.9	20.9	20.9	20.9	0	0	0	0	0	0	0	0	0	0	0.1	0
91	3/21/2017	2:52:48	0	0	0	0	20.9	20.9	20.9	20.9	0	0	0	0	0	0	0	0	0	0	0.1	0.1
92	3/21/2017	3:02:48	0	0	0	0	20.9	20.9	20.9	20.9	0	0	0	0	0	0	0	0	0	0.1	0.4	0.1
93	3/21/2017	3:12:48	0	0	0	0	20.9	20.9	20.9	20.9	0	0	0	0	0	0	0	0	0	0.1	0.5	0.2
94	3/21/2017	3:22:48	0	0	0	0	20.9	20.9	20.9	20.9	0	0	0	0	0	0	0	0	0	0.1	0.3	0.1
95	3/21/2017	3:32:48	0	0	0	0	20.9	20.9	20.9	20.9	0	0	0	0	0	0	0	0	0	0.1	0.3	0
96	3/21/2017	3:42:48	0	0	0	0	20.9	20.9	20.9	20.9	0	0	0	0	0	0	0	0	0	0.1	0.4	0.2
97	3/21/2017	3:52:48	0	0	0	0	20.9	20.9	20.9	20.9	0	0	0	0	0	0	0	0	0	0.1	0.4	0
98	3/21/2017	4:02:48	0	0	0	0	20.9	20.9	20.9	20.9	0	0	0	0	0	0	0	0	0	0.1	0.7	0.1
99	3/21/2017	4:12:48	0	0	0	0	20.9	20.9	20.9	20.9	0	0	0	0	0	0	0	0	0	0.1	0.2	0
100	3/21/2017	4:22:48	0	0	0	0	20.9	20.9	20.9	20.9	0	0	0	0	0	0	0	0	0	0.1	0.2	0.1
101	3/21/2017	4:32:48	0	0	0	0	20.9	20.9	20.9	20.9	0	0	0	0	0	0	0	0	0	0.2	0.9	0
102	3/21/2017	4:42:48	0	0	0	0	20.9	20.9	20.9	20.9	0	0	0	0	0	0	0	0	0	0.2	0.7	0.2
103	3/21/2017	4:52:48	0	0	0	0	20.9	20.9	20.9	20.9	0	0	0	0	0	0	0	0	0.2	0.4	1.1	0.5
104	3/21/2017	5:02:48	0	0	0	0	20.9	20.9	20.9	20.9	0	0	0	0	0	0	0	0	0	0.4	1.1	0.1
105	3/21/2017	5:12:48	0	0	0	0	20.9	20.9	20.9	20.9	0	0	0	0	0	0	0	0	0	0.3	0.9	0.6
106	3/21/2017	5:22:48	0	0	0	0	20.9	20.9	20.9	20.9	0	0	0	0	0	0	0	0	0	0.3	1.1	0
107	3/21/2017	5:32:48	0	0	0	0	20.9	20.9	20.9	20.9	0	0	0	0	0	0	0	0	0	0.2	1.2	0.7
108	3/21/2017	5:42:48	0	0	0	0	20.9	20.9	20.9	20.9	0	0	0	0	0	0	0	0	0	0.2	1.1	0
109	3/21/2017	5:52:48	0	0	0	0	20.9	20.9	20.9	20.9	0	0	0	0	0	0	0	0	0	0.1	0.4	0
110	3/21/2017	6:02:48	0	0	0	0	20.9	20.9	20.9	20.9	0	0	0	0	0	0	0	0	0	0.1	0.3	0
111	3/21/2017	6:12:48	0	0	0	0	20.9	20.9	20.9	20.9	0	0	0	0	0	0	0	0	0	0.2	0.6	0
112	3/21/2017	6:22:48	0	0	0	0	20.9	20.9	20.9	20.9	0	0	0	0	0	0	0	0	0	0	0.2	0
113	3/21/2017	6:32:48	0	0	0	0	20.9	20.9	20.9	20.9	0	0	0	0	0	0	0	0	0	0.1	0.4	0.1
114	3/21/2017	6:42:48	0	0	0	0	20.9	20.9	20.9	20.9	0	0	0	0	0	0	0	0	0	0.1	0.3	0
115	3/21/2017	6:52:48	0	0	0	0	20.9	20.9	20.9	20.9	0	0	0	0	0	0	0	0	0	0.1	0.4	0
116	3/21/2017	7:02:48	0	0	0	0	20.9	20.9	20.9	20.9	0	0	0	0	0	0	0	0	0	0.2	0.9	0.1
117	3/21/2017	7:12:48	0	0	0	0	20.9	20.9	20.9	20.9	0	0	0	0	0	0	0	0	0	0.4	1	0.4
118	3/21/2017	7:22:48	0	0	0	0	20.9	20.9	20.9	20.9	0	0	0	0	0	0	0	0	0	0.4	1.1	0.2
119	3/21/2017	7:32:48	0	0	0	0	20.9	20.9	20.9	20.9	0	0	0	0	0	0	0	0	0	0.2	0.4	0
120	3/21/2017	7:42:48	0	0	0	0	20.9	20.9	20.9	20.9	0	0	0	0	0	0	0	0	0	0.5	1.5	0.5
121	3/21/2017	7:52:48	0	0	0	0	20.9	20.9	20.9	20.9	0	0	0	0	0	0	0	0	0	0.3	0.7	0
122	3/21/2017	8:02:48	0	0	0	0	20.9	20.9	20.9	20.9	0	0	0	0	0	0	0	0	0	0.4	1.6	0.8
123	3/21/2017	8:12:48	0	0	0	0	20.9	20.9	20.9	20.9	0	0	0	0	0	0	0	0	0	0.3	1.9	0

124	3/21/2017	8:22:48	0	0	0	0	20.9	20.9	20.9	20.9	0	0	0	0	0	0	0	0	0	0.1	0.6	0.5
125	3/21/2017	8:32:48	0	0	0	0	20.9	20.9	20.9	20.9	0	0	0	0	0	0	0	0	0	0.3	2.7	0
126	3/21/2017	8:42:48	0	0	0	0	20.9	20.9	20.9	20.9	0	0	0	0	0	0	0	0	0	0.4	1.8	1.1
127	3/21/2017	8:52:48	0	0	0	0	20.9	20.9	20.9	20.9	0	0	0	0	0	0	0	0	0	0.4	1.8	0.6
128	3/21/2017	9:02:48	0	0	0	0	20.9	20.9	20.9	20.9	0	0	0	0	0	0	0	0	0.1	0.7	2.2	1.2
129	3/21/2017	9:12:48	0	0	0	0	20.9	20.9	20.9	20.9	0	0	0	0	0	0	0	0	0	0.7	2.5	0
130	3/21/2017	9:22:48	0	0	0	0	20.9	20.9	20.9	20.9	0	0	0	0	0	0	0	0	0	0.7	2.6	1.1
131	3/21/2017	9:32:48	0	0	0	0	20.9	20.9	20.9	20.9	0	0	0	0	0	0	0	0	0	0.2	1.9	0.1
132	3/21/2017	9:42:48	0	0	0	0	20.9	20.9	20.9	20.9	0	0	0	0	0	0	0	0	0	0.1	0.8	0.8
133	3/21/2017	9:52:48	0	0	0	0	20.9	20.9	20.9	20.9	0	0	0	0	0	0	0	0	0	0.5	1.9	0.1
134	3/21/2017	10:02:48	0	0	0	0	20.9	20.9	20.9	20.9	0	0	0	0	0	0	0	0	0	0.3	1.7	0.4
135	3/21/2017	10:12:48	0	0	0	0	20.9	20.9	20.9	20.9	0	0	0	0	0	0	0	0	0.1	0.7	3.3	0.1
136	3/21/2017	10:22:48	0	0	0	0	20.9	20.9	20.9	20.9	0	0	0	0	0	0	0	0	0	0.6	2.5	1.4
137	3/21/2017	10:32:48	0	0	0	0	20.9	20.9	20.9	20.9	0	0	0	0	0	0	0	0	0	0.5	3.3	0.1
138	3/21/2017	10:42:48	0	0	0	0	20.9	20.9	20.9	20.9	0	0	0	0	0	0	0	0	0	0.6	1.8	1.6
139	3/21/2017	10:52:48	0	0	0	0	20.9	20.9	20.9	20.9	0	0	0	0	0	0	0	0	0	0.5	1.8	0.1
140	3/21/2017	11:02:48	0	0	0	0	20.9	20.9	20.9	20.9	0	0	0	0	0	0	0	0	0.1	0.5	2.6	0.4
141	3/21/2017	11:12:48	0	0	0	0	20.9	20.9	20.9	20.9	0	0	0	0	0	0	0	0	0	0.5	2.1	0.2
142	3/21/2017	11:22:48	0	0	0	0	20.9	20.9	20.9	20.9	0	0	0	0	0	0	0	0	0.1	0.5	3	0.2
143	3/21/2017	11:32:48	0	0	0	0	20.9	20.9	20.9	20.9	0	0	0	0	0	0	0	0	0.1	0.5	1.8	0.3
144	3/21/2017	11:42:48	0	0	0	0	20.9	20.9	20.9	20.9	0	0	0	0	0	0	0	0	0	0.3	1.9	0.1
Peak			0	0	0	0	20.9	20.9	20.9	20.9	0	0	0	0	0	0	0	0	0.4	1	3.3	2
Min			0	0	0	0	20.9	20.9	20.9	20.9	0	0	0	0	0	0	0	0	0	0	0	0
Average			0	0	0	0	20.9	20.9	20.9	20.9	0	0	0	0	0	0	0	0	0	0.2	0.8	0.2

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TWA/STEL

Index	Date/Time	H2S(ppm)		CO(ppm)		VOC(ppm)	
		(TWA)	(STEL)	(TWA)	(STEL)	(TWA)	(STEL)
1	3/20/2017 11:52:48	0	---	0	---	---	---
2	3/20/2017 12:02:48	0		0	0	0	---
3	3/20/2017 12:12:48	0	0	0	0	0	0.2
4	3/20/2017 12:22:48	0	0	0	0	0	0.2
5	3/20/2017 12:32:48	0	0	0	0	0	0.2
6	3/20/2017 12:42:48	0	0	0	0	0	0
7	3/20/2017 12:52:48	0	0	0	0	0	0.1
8	3/20/2017 13:02:48	0	0	0	0	0	0.1
9	3/20/2017 13:12:48	0	0	0	0	0	0
10	3/20/2017 13:22:48	0	0	0	0	0	0.1
11	3/20/2017 13:32:48	0	0	0	0	0	0.1
12	3/20/2017 13:42:48	0	0	0	0	0	0
13	3/20/2017 13:52:48	0	0	0	0	0	0
14	3/20/2017 14:02:48	0	0	0	0	0	0.2
15	3/20/2017 14:12:48	0	0	0	0	0	0.3
16	3/20/2017 14:22:48	0	0	0	0	0	0.1
17	3/20/2017 14:32:48	0	0	0	0	0	0
18	3/20/2017 14:42:48	0	0	0	0	0	0.1
19	3/20/2017 14:52:48	0	0	0	0	0	0.5
20	3/20/2017 15:02:48	0	0	0	0	0	0.5
21	3/20/2017 15:12:48	0	0	0	0	0	0.1
22	3/20/2017 15:22:48	0	0	0	0	0	0
23	3/20/2017 15:32:48	0	0	0	0	0	0.1
24	3/20/2017 15:42:48	0	0	0	0	0.1	0.1
25	3/20/2017 15:52:48	0	0	0	0	0.1	0.1
26	3/20/2017 16:02:48	0	0	0	0	0.1	0.1

27	3/20/2017	16:12:48	0	0	0	0	0.1	0.6
28	3/20/2017	16:22:48	0	0	0	0	0.1	0.6
29	3/20/2017	16:32:48	0	0	0	0	0.1	0
30	3/20/2017	16:42:48	0	0	0	0	0.1	0
31	3/20/2017	16:52:48	0	0	0	0	0.1	0.2
32	3/20/2017	17:02:48	0	0	0	0	0.1	0.3
33	3/20/2017	17:12:48	0	0	0	0	0.1	0.1
34	3/20/2017	17:22:48	0	0	0	0	0.1	0.1
35	3/20/2017	17:32:48	0	0	0	0	0.1	0.1
36	3/20/2017	17:42:48	0	0	0	0	0.1	0.1
37	3/20/2017	17:52:48	0	0	0	0	0.1	0.2
38	3/20/2017	18:02:48	0	0	0	0	0.1	0.3
39	3/20/2017	18:12:48	0	0	0	0	0.1	0.1
40	3/20/2017	18:22:48	0	0	0	0	0.1	0.1
41	3/20/2017	18:32:48	0	0	0	0	0.1	0.1
42	3/20/2017	18:42:48	0	0	0	0	0.1	0.6
43	3/20/2017	18:52:48	0	0	0	0	0.1	0.7
44	3/20/2017	19:02:48	0	0	0	0	0.1	0.1
45	3/20/2017	19:12:48	0	0	0	0	0.1	0
46	3/20/2017	19:22:48	0	0	0	0	0.1	0.3
47	3/20/2017	19:32:48	0	0	0	0	0.1	0.3
48	3/20/2017	19:42:48	0	0	0	0	0.1	0.1
49	3/20/2017	19:52:48	0	0	0	0	0.1	0.3
50	3/20/2017	20:02:48	0	0	0	0	0.2	0.7
51	3/20/2017	20:12:48	0	0	0	0	0.2	0.5
52	3/20/2017	20:22:48	0	0	0	0	0.2	0.2
53	3/20/2017	20:32:48	0	0	0	0	0.2	0.1
54	3/20/2017	20:42:48	0	0	0	0	0.2	0
55	3/20/2017	20:52:48	0	0	0	0	0.2	0
56	3/20/2017	21:02:48	0	0	0	0	0.2	0
57	3/20/2017	21:12:48	0	0	0	0	0.2	0
58	3/20/2017	21:22:48	0	0	0	0	0.2	0
59	3/20/2017	21:32:48	0	0	0	0	0.2	0
60	3/20/2017	21:42:48	0	0	0	0	0.2	0
61	3/20/2017	21:52:48	0	0	0	0	0.2	0
62	3/20/2017	22:02:48	0	0	0	0	0.2	0
63	3/20/2017	22:12:48	0	0	0	0	0.2	0
64	3/20/2017	22:22:48	0	0	0	0	0.2	0
65	3/20/2017	22:32:48	0	0	0	0	0.2	0
66	3/20/2017	22:42:48	0	0	0	0	0.2	0
67	3/20/2017	22:52:48	0	0	0	0	0.2	0
68	3/20/2017	23:02:48	0	0	0	0	0.2	0.2
69	3/20/2017	23:12:48	0	0	0	0	0.2	0.2
70	3/20/2017	23:22:48	0	0	0	0	0.2	0
71	3/20/2017	23:32:48	0	0	0	0	0.2	0
72	3/20/2017	23:42:48	0	0	0	0	0.2	0
73	3/20/2017	23:52:48	0	0	0	0	0.2	0
74	3/21/2017	0:02:48	0	0	0	0	0.2	0.1
75	3/21/2017	0:12:48	0	0	0	0	0.2	0.5
76	3/21/2017	0:22:48	0	0	0	0	0.2	1.8
77	3/21/2017	0:32:48	0	0	0	0	0.2	1.5
78	3/21/2017	0:42:48	0	0	0	0	0.2	0.3
79	3/21/2017	0:52:48	0	0	0	0	0.2	0.3
80	3/21/2017	1:02:48	0	0	0	0	0.2	0.1
81	3/21/2017	1:12:48	0	0	0	0	0.2	0.2



82	3/21/2017	1:22:48	0	0	0	0	0.2	0.2
83	3/21/2017	1:32:48	0	0	0	0	0.2	0.1
84	3/21/2017	1:42:48	0	0	0	0	0.2	0
85	3/21/2017	1:52:48	0	0	0	0	0.2	0
86	3/21/2017	2:02:48	0	0	0	0	0.2	0
87	3/21/2017	2:12:48	0	0	0	0	0.2	0.1
88	3/21/2017	2:22:48	0	0	0	0	0.2	0.1
89	3/21/2017	2:32:48	0	0	0	0	0.2	0.1
90	3/21/2017	2:42:48	0	0	0	0	0.2	0.1
91	3/21/2017	2:52:48	0	0	0	0	0.3	0.1
92	3/21/2017	3:02:48	0	0	0	0	0.3	0.1
93	3/21/2017	3:12:48	0	0	0	0	0.3	0.2
94	3/21/2017	3:22:48	0	0	0	0	0.3	0.2
95	3/21/2017	3:32:48	0	0	0	0	0.3	0.1
96	3/21/2017	3:42:48	0	0	0	0	0.3	0.1
97	3/21/2017	3:52:48	0	0	0	0	0.3	0.1
98	3/21/2017	4:02:48	0	0	0	0	0.3	0.1
99	3/21/2017	4:12:48	0	0	0	0	0.3	0.1
100	3/21/2017	4:22:48	0	0	0	0	0.3	0.1
101	3/21/2017	4:32:48	0	0	0	0	0.3	0.1
102	3/21/2017	4:42:48	0	0	0	0	0.3	0.1
103	3/21/2017	4:52:48	0	0	0	0	0.3	0.5
104	3/21/2017	5:02:48	0	0	0	0	0.3	0.4
105	3/21/2017	5:12:48	0	0	0	0	0.3	0.5
106	3/21/2017	5:22:48	0	0	0	0	0.3	0.4
107	3/21/2017	5:32:48	0	0	0	0	0.3	0.5
108	3/21/2017	5:42:48	0	0	0	0	0.3	0.5
109	3/21/2017	5:52:48	0	0	0	0	0.3	0
110	3/21/2017	6:02:48	0	0	0	0	0.3	0
111	3/21/2017	6:12:48	0	0	0	0	0.3	0
112	3/21/2017	6:22:48	0	0	0	0	0.3	0
113	3/21/2017	6:32:48	0	0	0	0	0.3	0.1
114	3/21/2017	6:42:48	0	0	0	0	0.3	0.1
115	3/21/2017	6:52:48	0	0	0	0	0.3	0
116	3/21/2017	7:02:48	0	0	0	0	0.3	0.1
117	3/21/2017	7:12:48	0	0	0	0	0.3	0.3
118	3/21/2017	7:22:48	0	0	0	0	0.3	0.4
119	3/21/2017	7:32:48	0	0	0	0	0.3	0.1
120	3/21/2017	7:42:48	0	0	0	0	0.3	0.3
121	3/21/2017	7:52:48	0	0	0	0	0.3	0.3
122	3/21/2017	8:02:48	0	0	0	0	0.4	0.5
123	3/21/2017	8:12:48	0	0	0	0	0.4	0.5
124	3/21/2017	8:22:48	0	0	0	0	0.4	0.3
125	3/21/2017	8:32:48	0	0	0	0	0.4	0.3
126	3/21/2017	8:42:48	0	0	0	0	0.4	0.7
127	3/21/2017	8:52:48	0	0	0	0	0.4	1.1
128	3/21/2017	9:02:48	0	0	0	0	0.4	1.2
129	3/21/2017	9:12:48	0	0	0	0	0.4	0.8
130	3/21/2017	9:22:48	0	0	0	0	0.4	0.7
131	3/21/2017	9:32:48	0	0	0	0	0.5	0.8
132	3/21/2017	9:42:48	0	0	0	0	0.5	0.6
133	3/21/2017	9:52:48	0	0	0	0	0.5	0.6
134	3/21/2017	10:02:48	0	0	0	0	0.5	0.3
135	3/21/2017	10:12:48	0	0	0	0	0.5	0.3
136	3/21/2017	10:22:48	0	0	0	0	0.5	1

137	3/21/2017	10:32:48	0	0	0	0	0.5	1
138	3/21/2017	10:42:48	0	0	0	0	0.5	1.1
139	3/21/2017	10:52:48	0	0	0	0	0.5	1.1
140	3/21/2017	11:02:48	0	0	0	0	0.6	0.3
141	3/21/2017	11:12:48	0	0	0	0	0.6	0.4
142	3/21/2017	11:22:48	0	0	0	0	0.6	0.3
143	3/21/2017	11:32:48	0	0	0	0	0.6	0.3
144	3/21/2017	11:42:48	0	0	0	0	0.6	0.3

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 17/03/21 11:42

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Summary

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 Unit Name MultiRAE(PGM-6228)  
 Unit SN MBB3Z064Q8  
 Unit Firmware Ver V1.31  
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Running Mode Hygiene Mode  
 Datalog Mode Auto  
 Diagnostic Mode No  
 Stop Reason Schedule Stop  
 -----

Site ID 194  
 User ID 0  
 -----

Begin 3/21/2017 11:42:47  
 End 3/22/2017 11:42:47  
 Sample Period(s) 600  
 Number of Records 144  
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Sensor LEL(%LEL) OXY(%) H2S(ppm) CO(ppm) VOC(ppm)  
 Sensor SN SC0311128 SC0342108 SC03AR00 SC0306033 SC03A40150Q7

Measure	Type	Min	Avg	Max	Real	Min	Avg	Max	Real	Min	Avg	Max	Real	Min	Avg	Max	Real	Min	Avg	Max	Real	
Span		50	18	1	50	10																
Span		2 N/A	N/A	N/A	N/A	1000																
Low	Alarm	10	19.5	10	35	50																
High	Alarm	20	23.5	20	200	100																
Over	Alarm	100	30	100	500	5000																
STEL	Alarm	N/A	N/A	15	100	25																
TWA	Alarm	N/A	N/A	10	35	10																
Measurem Gas(CF)	Methane(1N/A	N/A	N/A	N/A	Isobutylene(1.00)																	
Calibration Time		3/2/2017	10:33	3/2/2017	10:33	3/2/2017	10:38	3/2/2017	10:33	3/2/2017	10:35											
Peak		0	20.9	0	0	1.2																
Min		0	20.9	0	0	0																
Average		0	20.9	0	0	0.1																

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Datalog

Index	Date/Time	LEL(%LEL) (Min)	LEL(%LEL) (Avg)	LEL(%LEL) (Max)	LEL(%LEL) (Real)	OXY(%) (Min)	OXY(%) (Avg)	OXY(%) (Max)	OXY(%) (Real)	H2S(ppm) (Min)	H2S(ppm) (Avg)	H2S(ppm) (Max)	H2S(ppm) (Real)	CO(ppm) (Min)	CO(ppm) (Avg)	CO(ppm) (Max)	CO(ppm) (Real)	VOC(ppm) (Min)	VOC(ppm) (Avg)	VOC(ppm) (Max)	VOC(ppm) (Real)	
1	3/21/2017 11:52:47	0	0	0	0	20.9	20.9	20.9	20.9	0	0	0	0	0	0	0	0	0	0	0.3	2.2	0.1
2	3/21/2017 12:02:47	0	0	0	0	20.9	20.9	20.9	20.9	0	0	0	0	0	0	0	0	0	0.1	0.5	2.5	0.4
3	3/21/2017 12:12:47	0	0	0	0	20.9	20.9	20.9	20.9	0	0	0	0	0	0	0	0	0	0.1	0.5	1.9	0.3
4	3/21/2017 12:22:47	0	0	0	0	20.9	20.9	20.9	20.9	0	0	0	0	0	0	0	0	0	0	0.1	0.8	0.4
5	3/21/2017 12:32:47	0	0	0	0	20.9	20.9	20.9	20.9	0	0	0	0	0	0	0	0	0	0.1	0.2	0.7	0.1

6	3/21/2017	12:42:47	0	0	0	0	20.9	20.9	20.9	20.9	0	0	0	0	0	0	0	0	0.1	0.2	1.3	0.1
7	3/21/2017	12:52:47	0	0	0	0	20.9	20.9	20.9	20.9	0	0	0	0	0	0	0	0	0.1	0.2	0.9	0.1
8	3/21/2017	13:02:47	0	0	0	0	20.9	20.9	20.9	20.9	0	0	0	0	0	0	0	0	0.1	0.3	0.9	0.5
9	3/21/2017	13:12:47	0	0	0	0	20.9	20.9	20.9	20.9	0	0	0	0	0	0	0	0	0.1	0.3	1.1	0.6
10	3/21/2017	13:22:47	0	0	0	0	20.9	20.9	20.9	20.9	0	0	0	0	0	0	0	0	0.1	0.3	1.1	0.1
11	3/21/2017	13:32:47	0	0	0	0	20.9	20.9	20.9	20.9	0	0	0	0	0	0	0	0	0.1	0.2	0.7	0.1
12	3/21/2017	13:42:47	0	0	0	0	20.9	20.9	20.9	20.9	0	0	0	0	0	0	0	0	0.1	0.2	1	0.8
13	3/21/2017	13:52:47	0	0	0	0	20.9	20.9	20.9	20.9	0	0	0	0	0	0	0	0	0.1	0.3	1.2	0.2
14	3/21/2017	14:02:47	0	0	0	0	20.9	20.9	20.9	20.9	0	0	0	0	0	0	0	0	0.1	0.1	0.9	0.1
15	3/21/2017	14:12:47	0	0	0	0	20.9	20.9	20.9	20.9	0	0	0	0	0	0	0	0	0.1	0.1	0.5	0.1
16	3/21/2017	14:22:47	0	0	0	0	20.9	20.9	20.9	20.9	0	0	0	0	0	0	0	0	0.1	0.2	0.5	0.1
17	3/21/2017	14:32:47	0	0	0	0	20.9	20.9	20.9	20.9	0	0	0	0	0	0	0	0	0.1	0.3	0.9	0.3
18	3/21/2017	14:42:47	0	0	0	0	20.9	20.9	20.9	20.9	0	0	0	0	0	0	0	0	0.1	0.3	1.1	0.1
19	3/21/2017	14:52:47	0	0	0	0	20.9	20.9	20.9	20.9	0	0	0	0	0	0	0	0	0.1	0.2	0.6	0.2
20	3/21/2017	15:02:47	0	0	0	0	20.9	20.9	20.9	20.9	0	0	0	0	0	0	0	0	0.1	0.3	1	0.2
21	3/21/2017	15:12:47	0	0	0	0	20.9	20.9	20.9	20.9	0	0	0	0	0	0	0	0	0.1	0.2	0.6	0.1
22	3/21/2017	15:22:47	0	0	0	0	20.9	20.9	20.9	20.9	0	0	0	0	0	0	0	0	0.1	0.1	0.3	0.1
23	3/21/2017	15:32:47	0	0	0	0	20.9	20.9	20.9	20.9	0	0	0	0	0	0	0	0	0.1	0.2	1.4	0.4
24	3/21/2017	15:42:47	0	0	0	0	20.9	20.9	20.9	20.9	0	0	0	0	0	0	0	0	0.1	0.3	1.2	0.1
25	3/21/2017	15:52:47	0	0	0	0	20.9	20.9	20.9	20.9	0	0	0	0	0	0	0	0	0.1	0.2	1	0.1
26	3/21/2017	16:02:47	0	0	0	0	20.9	20.9	20.9	20.9	0	0	0	0	0	0	0	0	0.1	0.1	0.5	0.2
27	3/21/2017	16:12:47	0	0	0	0	20.9	20.9	20.9	20.9	0	0	0	0	0	0	0	0	0.1	0.1	0.3	0.1
28	3/21/2017	16:22:47	0	0	0	0	20.9	20.9	20.9	20.9	0	0	0	0	0	0	0	0	0.1	0.2	0.5	0.3
29	3/21/2017	16:32:47	0	0	0	0	20.9	20.9	20.9	20.9	0	0	0	0	0	0	0	0	0.1	0.2	0.4	0.2
30	3/21/2017	16:42:47	0	0	0	0	20.9	20.9	20.9	20.9	0	0	0	0	0	0	0	0	0.1	0.2	0.3	0.1
31	3/21/2017	16:52:47	0	0	0	0	20.9	20.9	20.9	20.9	0	0	0	0	0	0	0	0	0.1	0.5	1.9	0.2
32	3/21/2017	17:02:47	0	0	0	0	20.9	20.9	20.9	20.9	0	0	0	0	0	0	0	0	0.1	0.1	0.2	0.1
33	3/21/2017	17:12:47	0	0	0	0	20.9	20.9	20.9	20.9	0	0	0	0	0	0	0	0	0.1	0.2	0.5	0.2
34	3/21/2017	17:22:47	0	0	0	0	20.9	20.9	20.9	20.9	0	0	0	0	0	0	0	0	0.1	0.5	1.3	0.3
35	3/21/2017	17:32:47	0	0	0	0	20.9	20.9	20.9	20.9	0	0	0	0	0	0	0	0	0.1	0.3	0.7	0.2
36	3/21/2017	17:42:47	0	0	0	0	20.9	20.9	20.9	20.9	0	0	0	0	0	0	0	0	0.1	0.3	0.7	0.1
37	3/21/2017	17:52:47	0	0	0	0	20.9	20.9	20.9	20.9	0	0	0	0	0	0	0	0	0.1	0.3	0.9	0.2
38	3/21/2017	18:02:47	0	0	0	0	20.9	20.9	20.9	20.9	0	0	0	0	0	0	0	0	0.1	0.1	0.4	0.1
39	3/21/2017	18:12:47	0	0	0	0	20.9	20.9	20.9	20.9	0	0	0	0	0	0	0	0	0.1	0.1	0.5	0.1
40	3/21/2017	18:22:47	0	0	0	0	20.9	20.9	20.9	20.9	0	0	0	0	0	0	0	0	0.1	0.2	1.2	0.2
41	3/21/2017	18:32:47	0	0	0	0	20.9	20.9	20.9	20.9	0	0	0	0	0	0	0	0	0.1	0.1	0.4	0.1
42	3/21/2017	18:42:47	0	0	0	0	20.9	20.9	20.9	20.9	0	0	0	0	0	0	0	0	0.1	0.3	1	0.6
43	3/21/2017	18:52:47	0	0	0	0	20.9	20.9	20.9	20.9	0	0	0	0	0	0	0	0	0.2	0.8	2.6	0.2
44	3/21/2017	19:02:47	0	0	0	0	20.9	20.9	20.9	20.9	0	0	0	0	0	0	0	0	0.1	0.2	2	0.3
45	3/21/2017	19:12:47	0	0	0	0	20.9	20.9	20.9	20.9	0	0	0	0	0	0	0	0	0.1	0.5	2	1.2
46	3/21/2017	19:22:47	0	0	0	0	20.9	20.9	20.9	20.9	0	0	0	0	0	0	0	0	0.1	0.5	2	0.2
47	3/21/2017	19:32:47	0	0	0	0	20.9	20.9	20.9	20.9	0	0	0	0	0	0	0	0	0.1	0.3	1.3	0.9
48	3/21/2017	19:42:47	0	0	0	0	20.9	20.9	20.9	20.9	0	0	0	0	0	0	0	0	0.2	0.4	1.1	0.3
49	3/21/2017	19:52:47	0	0	0	0	20.9	20.9	20.9	20.9	0	0	0	0	0	0	0	0	0.1	0.2	0.7	0.1
50	3/21/2017	20:02:47	0	0	0	0	20.9	20.9	20.9	20.9	0	0	0	0	0	0	0	0	0.1	0.1	1.6	0.5
51	3/21/2017	20:12:47	0	0	0	0	20.9	20.9	20.9	20.9	0	0	0	0	0	0	0	0	0.1	0.3	1.3	0.1
52	3/21/2017	20:22:47	0	0	0	0	20.9	20.9	20.9	20.9	0	0	0	0	0	0	0	0	0.1	0.2	0.5	0.3
53	3/21/2017	20:32:47	0	0	0	0	20.9	20.9	20.9	20.9	0	0	0	0	0	0	0	0	0	0.3	3.4	0.1
54	3/21/2017	20:42:47	0	0	0	0	20.9	20.9	20.9	20.9	0	0	0	0	0	0	0	0	0	0.1	1	1
55	3/21/2017	20:52:47	0	0	0	0	20.9	20.9	20.9	20.9	0	0	0	0	0	0	0	0	0.1	0.4	1.1	0.1
56	3/21/2017	21:02:47	0	0	0	0	20.9	20.9	20.9	20.9	0	0	0	0	0	0	0	0	0	0.2	1.7	0.1
57	3/21/2017	21:12:47	0	0	0	0	20.9	20.9	20.9	20.9	0	0	0	0	0	0	0	0	0.1	0.2	0.5	0.2
58	3/21/2017	21:22:47	0	0	0	0	20.9	20.9	20.9	20.9	0	0	0	0	0	0	0	0	0	0.2	0.4	0.2
59	3/21/2017	21:32:47	0	0	0	0	20.9	20.9	20.9	20.9	0	0	0	0	0	0	0	0	0.1	0.2	0.4	0.2
60	3/21/2017	21:42:47	0	0	0	0	20.9	20.9	20.9	20.9	0	0	0	0	0	0	0	0	0	0.1	0.3	0.1



116	3/22/2017	7:02:47	0	0	0	0	20.9	20.9	20.9	20.9	0	0	0	0	0	0	0	0	0	0.1	0.2	0
117	3/22/2017	7:12:47	0	0	0	0	20.9	20.9	20.9	20.9	0	0	0	0	0	0	0	0	0	0.1	0.3	0.1
118	3/22/2017	7:22:47	0	0	0	0	20.9	20.9	20.9	20.9	0	0	0	0	0	0	0	0	0.1	0.2	0.5	0.1
119	3/22/2017	7:32:47	0	0	0	0	20.9	20.9	20.9	20.9	0	0	0	0	0	0	0	0	0	0.2	0.5	0.1
120	3/22/2017	7:42:47	0	0	0	0	20.9	20.9	20.9	20.9	0	0	0	0	0	0	0	0	0	0.1	0.3	0.1
121	3/22/2017	7:52:47	0	0	0	0	20.9	20.9	20.9	20.9	0	0	0	0	0	0	0	0	0	0.1	0.2	0.1
122	3/22/2017	8:02:47	0	0	0	0	20.9	20.9	20.9	20.9	0	0	0	0	0	0	0	0	0	0.1	0.3	0.1
123	3/22/2017	8:12:47	0	0	0	0	20.9	20.9	20.9	20.9	0	0	0	0	0	0	0	0	0	0.1	0.2	0.1
124	3/22/2017	8:22:47	0	0	0	0	20.9	20.9	20.9	20.9	0	0	0	0	0	0	0	0	0	0.1	0.2	0.1
125	3/22/2017	8:32:47	0	0	0	0	20.9	20.9	20.9	20.9	0	0	0	0	0	0	0	0	0	0.1	0.2	0.2
126	3/22/2017	8:42:47	0	0	0	0	20.9	20.9	20.9	20.9	0	0	0	0	0	0	0	0	0	0.1	0.2	0.1
127	3/22/2017	8:52:47	0	0	0	0	20.9	20.9	20.9	20.9	0	0	0	0	0	0	0	0	0	0.1	0.2	0.1
128	3/22/2017	9:02:47	0	0	0	0	20.9	20.9	20.9	20.9	0	0	0	0	0	0	0	0	0	0.1	0.2	0.1
129	3/22/2017	9:12:47	0	0	0	0	20.9	20.9	20.9	20.9	0	0	0	0	0	0	0	0	0	0.1	0.2	0.1
130	3/22/2017	9:22:47	0	0	0	0	20.9	20.9	20.9	20.9	0	0	0	0	0	0	0	0	0	0.1	0.3	0.1
131	3/22/2017	9:32:47	0	0	0	0	20.9	20.9	20.9	20.9	0	0	0	0	0	0	0	0	0	0.1	0.2	0.1
132	3/22/2017	9:42:47	0	0	0	0	20.9	20.9	20.9	20.9	0	0	0	0	0	0	0	0	0	0.1	0.2	0.1
133	3/22/2017	9:52:47	0	0	0	0	20.9	20.9	20.9	20.9	0	0	0	0	0	0	0	0	0	0.1	0.3	0.1
134	3/22/2017	10:02:47	0	0	0	0	20.9	20.9	20.9	20.9	0	0	0	0	0	0	0	0	0	0.1	0.2	0.1
135	3/22/2017	10:12:47	0	0	0	0	20.9	20.9	20.9	20.9	0	0	0	0	0	0	0	0	0	0.1	0.2	0.1
136	3/22/2017	10:22:47	0	0	0	0	20.9	20.9	20.9	20.9	0	0	0	0	0	0	0	0	0	0.1	0.4	0.4
137	3/22/2017	10:32:47	0	0	0	0	20.9	20.9	20.9	20.9	0	0	0	0	0	0	0	0	0	0.1	0.4	0.2
138	3/22/2017	10:42:47	0	0	0	0	20.9	20.9	20.9	20.9	0	0	0	0	0	0	0	0	0	0.1	0.2	0.1
139	3/22/2017	10:52:47	0	0	0	0	20.9	20.9	20.9	20.9	0	0	0	0	0	0	0	0	0	0.1	0.2	0.1
140	3/22/2017	11:02:47	0	0	0	0	20.9	20.9	20.9	20.9	0	0	0	0	0	0	0	0	0	0.2	0.4	0.2
141	3/22/2017	11:12:47	0	0	0	0	20.9	20.9	20.9	20.9	0	0	0	0	0	0	0	0	0	0.2	0.4	0.1
142	3/22/2017	11:22:47	0	0	0	0	20.9	20.9	20.9	20.9	0	0	0	0	0	0	0	0	0	0.1	0.3	0.2
143	3/22/2017	11:32:47	0	0	0	0	20.9	20.9	20.9	20.9	0	0	0	0	0	0	0	0	0	0.2	0.6	0.1
144	3/22/2017	11:42:47	0	0	0	0	20.9	20.9	20.9	20.9	0	0	0	0	0	0	0	0	0	0.1	0.3	0.1
Peak			0	0	0	0	20.9	20.9	20.9	20.9	0	0	0	0	0	0	0	0	0.2	0.8	3.4	1.2
Min			0	0	0	0	20.9	20.9	20.9	20.9	0	0	0	0	0	0	0	0	0	0	0	0
Average			0	0	0	0	20.9	20.9	20.9	20.9	0	0	0	0	0	0	0	0	0	0.1	0.6	0.1

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TWA/STEL

Index	Date/Time	H2S(ppm)		CO(ppm)		VOC(ppm)	
		(TWA)	(STEL)	(TWA)	(STEL)	(TWA)	(STEL)
1	3/21/2017 11:52:47	0	---	0	---	0	---
2	3/21/2017 12:02:47	0	0	0	0	0	0.3
3	3/21/2017 12:12:47	0	0	0	0	0	0.5
4	3/21/2017 12:22:47	0	0	0	0	0	0.5
5	3/21/2017 12:32:47	0	0	0	0	0	0.3
6	3/21/2017 12:42:47	0	0	0	0	0	0.1
7	3/21/2017 12:52:47	0	0	0	0	0	0.1
8	3/21/2017 13:02:47	0	0	0	0	0	0.4
9	3/21/2017 13:12:47	0	0	0	0	0.1	0.7
10	3/21/2017 13:22:47	0	0	0	0	0.1	0.5
11	3/21/2017 13:32:47	0	0	0	0	0.1	0.1
12	3/21/2017 13:42:47	0	0	0	0	0.1	0.6
13	3/21/2017 13:52:47	0	0	0	0	0.1	0.7
14	3/21/2017 14:02:47	0	0	0	0	0.1	0.2
15	3/21/2017 14:12:47	0	0	0	0	0.1	0.1
16	3/21/2017 14:22:47	0	0	0	0	0.1	0.1
17	3/21/2017 14:32:47	0	0	0	0	0.1	0.3
18	3/21/2017 14:42:47	0	0	0	0	0.1	0.3

19	3/21/2017	14:52:47	0	0	0	0	0.1	0.2
20	3/21/2017	15:02:47	0	0	0	0	0.1	0.3
21	3/21/2017	15:12:47	0	0	0	0	0.1	0.2
22	3/21/2017	15:22:47	0	0	0	0	0.1	0.1
23	3/21/2017	15:32:47	0	0	0	0	0.1	0.3
24	3/21/2017	15:42:47	0	0	0	0	0.1	0.3
25	3/21/2017	15:52:47	0	0	0	0	0.1	0.1
26	3/21/2017	16:02:47	0	0	0	0	0.1	0.2
27	3/21/2017	16:12:47	0	0	0	0	0.1	0.2
28	3/21/2017	16:22:47	0	0	0	0	0.1	0.3
29	3/21/2017	16:32:47	0	0	0	0	0.1	0.3
30	3/21/2017	16:42:47	0	0	0	0	0.1	0.2
31	3/21/2017	16:52:47	0	0	0	0	0.1	0.2
32	3/21/2017	17:02:47	0	0	0	0	0.1	0.2
33	3/21/2017	17:12:47	0	0	0	0	0.1	0.2
34	3/21/2017	17:22:47	0	0	0	0	0.2	0.3
35	3/21/2017	17:32:47	0	0	0	0	0.2	0.3
36	3/21/2017	17:42:47	0	0	0	0	0.2	0.2
37	3/21/2017	17:52:47	0	0	0	0	0.2	0.2
38	3/21/2017	18:02:47	0	0	0	0	0.2	0.2
39	3/21/2017	18:12:47	0	0	0	0	0.2	0.1
40	3/21/2017	18:22:47	0	0	0	0	0.2	0.2
41	3/21/2017	18:32:47	0	0	0	0	0.2	0.2
42	3/21/2017	18:42:47	0	0	0	0	0.2	0.5
43	3/21/2017	18:52:47	0	0	0	0	0.2	0.5
44	3/21/2017	19:02:47	0	0	0	0	0.2	0.3
45	3/21/2017	19:12:47	0	0	0	0	0.2	1
46	3/21/2017	19:22:47	0	0	0	0	0.2	0.9
47	3/21/2017	19:32:47	0	0	0	0	0.2	0.7
48	3/21/2017	19:42:47	0	0	0	0	0.3	0.8
49	3/21/2017	19:52:47	0	0	0	0	0.3	0.3
50	3/21/2017	20:02:47	0	0	0	0	0.3	0.4
51	3/21/2017	20:12:47	0	0	0	0	0.3	0.4
52	3/21/2017	20:22:47	0	0	0	0	0.3	0.3
53	3/21/2017	20:32:47	0	0	0	0	0.3	0.3
54	3/21/2017	20:42:47	0	0	0	0	0.3	0.7
55	3/21/2017	20:52:47	0	0	0	0	0.3	0.7
56	3/21/2017	21:02:47	0	0	0	0	0.3	0.1
57	3/21/2017	21:12:47	0	0	0	0	0.3	0.2
58	3/21/2017	21:22:47	0	0	0	0	0.3	0.3
59	3/21/2017	21:32:47	0	0	0	0	0.3	0.3
60	3/21/2017	21:42:47	0	0	0	0	0.3	0.2
61	3/21/2017	21:52:47	0	0	0	0	0.3	0.1
62	3/21/2017	22:02:47	0	0	0	0	0.3	0.1
63	3/21/2017	22:12:47	0	0	0	0	0.3	0.1
64	3/21/2017	22:22:47	0	0	0	0	0.3	0.2
65	3/21/2017	22:32:47	0	0	0	0	0.3	0.3
66	3/21/2017	22:42:47	0	0	0	0	0.3	0.2
67	3/21/2017	22:52:47	0	0	0	0	0.3	0.1
68	3/21/2017	23:02:47	0	0	0	0	0.3	0
69	3/21/2017	23:12:47	0	0	0	0	0.3	0
70	3/21/2017	23:22:47	0	0	0	0	0.3	0.2
71	3/21/2017	23:32:47	0	0	0	0	0.3	0.3
72	3/21/2017	23:42:47	0	0	0	0	0.3	0.1
73	3/21/2017	23:52:47	0	0	0	0	0.3	0

74	3/22/2017	0:02:47	0	0	0	0	0.3	0.1
75	3/22/2017	0:12:47	0	0	0	0	0.3	0.1
76	3/22/2017	0:22:47	0	0	0	0	0.3	0
77	3/22/2017	0:32:47	0	0	0	0	0.3	0
78	3/22/2017	0:42:47	0	0	0	0	0.3	0
79	3/22/2017	0:52:47	0	0	0	0	0.3	0
80	3/22/2017	1:02:47	0	0	0	0	0.3	0
81	3/22/2017	1:12:47	0	0	0	0	0.3	0.1
82	3/22/2017	1:22:47	0	0	0	0	0.3	0.1
83	3/22/2017	1:32:47	0	0	0	0	0.3	0
84	3/22/2017	1:42:47	0	0	0	0	0.3	0
85	3/22/2017	1:52:47	0	0	0	0	0.3	0
86	3/22/2017	2:02:47	0	0	0	0	0.3	0
87	3/22/2017	2:12:47	0	0	0	0	0.3	0
88	3/22/2017	2:22:47	0	0	0	0	0.3	0
89	3/22/2017	2:32:47	0	0	0	0	0.3	0
90	3/22/2017	2:42:47	0	0	0	0	0.3	0
91	3/22/2017	2:52:47	0	0	0	0	0.3	0
92	3/22/2017	3:02:47	0	0	0	0	0.3	0
93	3/22/2017	3:12:47	0	0	0	0	0.3	0
94	3/22/2017	3:22:47	0	0	0	0	0.3	0
95	3/22/2017	3:32:47	0	0	0	0	0.3	0.1
96	3/22/2017	3:42:47	0	0	0	0	0.3	0.1
97	3/22/2017	3:52:47	0	0	0	0	0.3	0
98	3/22/2017	4:02:47	0	0	0	0	0.3	0
99	3/22/2017	4:12:47	0	0	0	0	0.3	0
100	3/22/2017	4:22:47	0	0	0	0	0.3	0.1
101	3/22/2017	4:32:47	0	0	0	0	0.3	0.1
102	3/22/2017	4:42:47	0	0	0	0	0.3	0
103	3/22/2017	4:52:47	0	0	0	0	0.3	0.1
104	3/22/2017	5:02:47	0	0	0	0	0.4	0.1
105	3/22/2017	5:12:47	0	0	0	0	0.4	0.1
106	3/22/2017	5:22:47	0	0	0	0	0.4	0
107	3/22/2017	5:32:47	0	0	0	0	0.4	0
108	3/22/2017	5:42:47	0	0	0	0	0.4	0
109	3/22/2017	5:52:47	0	0	0	0	0.4	0.1
110	3/22/2017	6:02:47	0	0	0	0	0.4	0.2
111	3/22/2017	6:12:47	0	0	0	0	0.4	0.1
112	3/22/2017	6:22:47	0	0	0	0	0.4	0
113	3/22/2017	6:32:47	0	0	0	0	0.4	0
114	3/22/2017	6:42:47	0	0	0	0	0.4	0.1
115	3/22/2017	6:52:47	0	0	0	0	0.4	0.1
116	3/22/2017	7:02:47	0	0	0	0	0.4	0.1
117	3/22/2017	7:12:47	0	0	0	0	0.4	0.1
118	3/22/2017	7:22:47	0	0	0	0	0.4	0.1
119	3/22/2017	7:32:47	0	0	0	0	0.4	0.1
120	3/22/2017	7:42:47	0	0	0	0	0.4	0.1
121	3/22/2017	7:52:47	0	0	0	0	0.4	0.1
122	3/22/2017	8:02:47	0	0	0	0	0.4	0.1
123	3/22/2017	8:12:47	0	0	0	0	0.4	0.1
124	3/22/2017	8:22:47	0	0	0	0	0.4	0.1
125	3/22/2017	8:32:47	0	0	0	0	0.4	0.2
126	3/22/2017	8:42:47	0	0	0	0	0.4	0.2
127	3/22/2017	8:52:47	0	0	0	0	0.4	0.1
128	3/22/2017	9:02:47	0	0	0	0	0.4	0.1

129	3/22/2017	9:12:47	0	0	0	0	0.4	0.1
130	3/22/2017	9:22:47	0	0	0	0	0.4	0.1
131	3/22/2017	9:32:47	0	0	0	0	0.4	0.1
132	3/22/2017	9:42:47	0	0	0	0	0.4	0.1
133	3/22/2017	9:52:47	0	0	0	0	0.4	0.1
134	3/22/2017	10:02:47	0	0	0	0	0.4	0.1
135	3/22/2017	10:12:47	0	0	0	0	0.4	0.1
136	3/22/2017	10:22:47	0	0	0	0	0.4	0.3
137	3/22/2017	10:32:47	0	0	0	0	0.4	0.4
138	3/22/2017	10:42:47	0	0	0	0	0.4	0.2
139	3/22/2017	10:52:47	0	0	0	0	0.4	0.1
140	3/22/2017	11:02:47	0	0	0	0	0.4	0.2
141	3/22/2017	11:12:47	0	0	0	0	0.4	0.2
142	3/22/2017	11:22:47	0	0	0	0	0.4	0.2
143	3/22/2017	11:32:47	0	0	0	0	0.4	0.2
144	3/22/2017	11:42:47	0	0	0	0	0.4	0.1

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17/03/22 11:42

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Summary

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Unit Name MultiRAE(PGM-6228)  
Unit SN MBB3Z064Q8  
Unit Firmware Ver V1.31  
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Running Mode Hygiene Mode  
Datalog Mode Auto  
Diagnostic Mode No  
Stop Reason Schedule Stop  
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Site ID 194  
User ID 0  
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Begin 3/22/2017 11:42:47  
End 3/23/2017 11:42:47  
Sample Period(s) 600  
Number of Records 144  
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Sensor	SN	LEL(%LEL)	OXY(%)	H2S(ppm)	CO(ppm)	VOC(ppm)												
Sensor	SN	SC0311128	SC0342108	SC03AR006	SC0306033	SC03A40150Q7												
Measure	Type	Min	Avg	Max	Real	Min	Avg	Max	Real	Min	Avg	Max	Real	Min	Avg	Max	Real	
Span			50	18	1	50	10											
Span		2 N/A	N/A	N/A	N/A		1000											
Low	Alarm		10	19.5	10	35	50											
High	Alarm		20	23.5	20	200	100											
Over	Alarm		100	30	100	500	5000											
STEL	Alarm	N/A	N/A		15	100	25											
TWA	Alarm	N/A	N/A		10	35	10											
Measurem Gas(CF)		Methane(1N/A		N/A	N/A		Isobutylene(1.00)											
Calibration Time		3/2/2017	10:33	3/2/2017	10:33	3/2/2017	10:38	3/2/2017	10:33	3/2/2017	10:35							
Peak			0	20.9	0	0	0.2											
Min			0	20.9	0	0	0											
Average			0	20.9	0	0	0.1											

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Datalog

Index	Date/Time	LEL(%LEL) (Min)	LEL(%LEL) (Avg)	LEL(%LEL) (Max)	LEL(%LEL) (Real)	OXY(%) (Min)	OXY(%) (Avg)	OXY(%) (Max)	OXY(%) (Real)	H2S(ppm) (Min)	H2S(ppm) (Avg)	H2S(ppm) (Max)	H2S(ppm) (Real)	CO(ppm) (Min)	CO(ppm) (Avg)	CO(ppm) (Max)	CO(ppm) (Real)	VOC(ppm) (Min)	VOC(ppm) (Avg)	VOC(ppm) (Max)	VOC(ppm) (Real)		
1	3/22/2017 11:52:47	0	0	0	0	20.9	20.9	20.9	20.9	0	0	0	0	0	0	0	0	0	0	0	0.2	0.3	0.1
2	3/22/2017 12:02:47	0	0	0	0	20.9	20.9	20.9	20.9	0	0	0	0	0	0	0	0	0	0	0	0.1	0.2	0.2
3	3/22/2017 12:12:47	0	0	0	0	20.9	20.9	20.9	20.9	0	0	0	0	0	0	0	0	0	0	0	0.1	0.3	0.1
4	3/22/2017 12:22:47	0	0	0	0	20.9	20.9	20.9	20.9	0	0	0	0	0	0	0	0	0	0	0	0.1	0.3	0.1
5	3/22/2017 12:32:47	0	0	0	0	20.9	20.9	20.9	20.9	0	0	0	0	0	0	0	0	0	0	0	0.1	0.2	0.1
6	3/22/2017 12:42:47	0	0	0	0	20.9	20.9	20.9	20.9	0	0	0	0	0	0	0	0	0	0	0	0.1	0.3	0
7	3/22/2017 12:52:47	0	0	0	0	20.9	20.9	20.9	20.9	0	0	0	0	0	0	0	0	0	0	0	0.1	0.2	0.1
8	3/22/2017 13:02:47	0	0	0	0	20.9	20.9	20.9	20.9	0	0	0	0	0	0	0	0	0	0	0	0.1	0.2	0.1
9	3/22/2017 13:12:47	0	0	0	0	20.9	20.9	20.9	20.9	0	0	0	0	0	0	0	0	0	0	0	0.1	0.2	0.1
10	3/22/2017 13:22:47	0	0	0	0	20.9	20.9	20.9	20.9	0	0	0	0	0	0	0	0	0	0	0	0.1	0.2	0.1
11	3/22/2017 13:32:47	0	0	0	0	20.9	20.9	20.9	20.9	0	0	0	0	0	0	0	0	0	0	0	0.1	0.2	0.1
12	3/22/2017 13:42:47	0	0	0	0	20.9	20.9	20.9	20.9	0	0	0	0	0	0	0	0	0	0	0	0.1	0.2	0.1
13	3/22/2017 13:52:47	0	0	0	0	20.9	20.9	20.9	20.9	0	0	0	0	0	0	0	0	0	0	0	0.1	0.2	0.1
14	3/22/2017 14:02:47	0	0	0	0	20.9	20.9	20.9	20.9	0	0	0	0	0	0	0	0	0	0	0	0.1	0.3	0
15	3/22/2017 14:12:47	0	0	0	0	20.9	20.9	20.9	20.9	0	0	0	0	0	0	0	0	0	0	0	0.1	0.2	0
16	3/22/2017 14:22:47	0	0	0	0	20.9	20.9	20.9	20.9	0	0	0	0	0	0	0	0	0	0	0	0.1	0.2	0.1
17	3/22/2017 14:32:47	0	0	0	0	20.9	20.9	20.9	20.9	0	0	0	0	0	0	0	0	0	0	0	0.1	0.2	0.1
18	3/22/2017 14:42:47	0	0	0	0	20.9	20.9	20.9	20.9	0	0	0	0	0	0	0	0	0	0	0	0.1	0.2	0
19	3/22/2017 14:52:47	0	0	0	0	20.9	20.9	20.9	20.9	0	0	0	0	0	0	0	0	0	0	0	0.1	0.2	0.1
20	3/22/2017 15:02:47	0	0	0	0	20.9	20.9	20.9	20.9	0	0	0	0	0	0	0	0	0	0	0	0.1	0.2	0.1
21	3/22/2017 15:12:47	0	0	0	0	20.9	20.9	20.9	20.9	0	0	0	0	0	0	0	0	0	0	0	0.1	0.2	0.2
22	3/22/2017 15:22:47	0	0	0	0	20.9	20.9	20.9	20.9	0	0	0	0	0	0	0	0	0	0	0	0.1	0.2	0.1
23	3/22/2017 15:32:47	0	0	0	0	20.9	20.9	20.9	20.9	0	0	0	0	0	0	0	0	0	0	0	0.1	0.2	0.1
24	3/22/2017 15:42:47	0	0	0	0	20.9	20.9	20.9	20.9	0	0	0	0	0	0	0	0	0	0	0	0.1	0.2	0
25	3/22/2017 15:52:47	0	0	0	0	20.9	20.9	20.9	20.9	0	0	0	0	0	0	0	0	0	0	0	0.1	0.2	0
26	3/22/2017 16:02:47	0	0	0	0	20.9	20.9	20.9	20.9	0	0	0	0	0	0	0	0	0	0	0	0.1	0.2	0.1
27	3/22/2017 16:12:47	0	0	0	0	20.9	20.9	20.9	20.9	0	0	0	0	0	0	0	0	0	0	0	0.1	0.2	0.1
28	3/22/2017 16:22:47	0	0	0	0	20.9	20.9	20.9	20.9	0	0	0	0	0	0	0	0	0	0	0	0.1	0.2	0.1
29	3/22/2017 16:32:47	0	0	0	0	20.9	20.9	20.9	20.9	0	0	0	0	0	0	0	0	0	0	0	0.1	0.2	0.1
30	3/22/2017 16:42:47	0	0	0	0	20.9	20.9	20.9	20.9	0	0	0	0	0	0	0	0	0	0	0	0.1	0.2	0
31	3/22/2017 16:52:47	0	0	0	0	20.9	20.9	20.9	20.9	0	0	0	0	0	0	0	0	0	0	0	0.1	0.2	0.1
32	3/22/2017 17:02:47	0	0	0	0	20.9	20.9	20.9	20.9	0	0	0	0	0	0	0	0	0	0	0	0.1	0.2	0.1
33	3/22/2017 17:12:47	0	0	0	0	20.9	20.9	20.9	20.9	0	0	0	0	0	0	0	0	0	0	0	0.1	0.2	0.1
34	3/22/2017 17:22:47	0	0	0	0	20.9	20.9	20.9	20.9	0	0	0	0	0	0	0	0	0	0	0	0.1	0.2	0.1
35	3/22/2017 17:32:47	0	0	0	0	20.9	20.9	20.9	20.9	0	0	0	0	0	0	0	0	0	0	0	0.1	0.3	0.1
36	3/22/2017 17:42:47	0	0	0	0	20.9	20.9	20.9	20.9	0	0	0	0	0	0	0	0	0	0	0	0.1	0.2	0.1
37	3/22/2017 17:52:47	0	0	0	0	20.9	20.9	20.9	20.9	0	0	0	0	0	0	0	0	0	0	0	0.1	0.2	0.1
38	3/22/2017 18:02:47	0	0	0	0	20.9	20.9	20.9	20.9	0	0	0	0	0	0	0	0	0	0	0	0.1	0.2	0.1
39	3/22/2017 18:12:47	0	0	0	0	20.9	20.9	20.9	20.9	0	0	0	0	0	0	0	0	0	0	0	0.1	0.2	0.1
40	3/22/2017 18:22:47	0	0	0	0	20.9	20.9	20.9	20.9	0	0	0	0	0	0	0	0	0	0	0	0.1	0.2	0.1
41	3/22/2017 18:32:47	0	0	0	0	20.9	20.9	20.9	20.9	0	0	0	0	0	0	0	0	0	0	0	0.1	0.3	0.1
42	3/22/2017 18:42:47	0	0	0	0	20.9	20.9	20.9	20.9	0	0	0	0	0	0	0	0	0	0	0	0.1	0.1	0.1
43	3/22/2017 18:52:47	0	0	0	0	20.9	20.9	20.9	20.9	0	0	0	0	0	0	0	0	0	0	0	0.1	0.2	0
44	3/22/2017 19:02:47	0	0	0	0	20.9	20.9	20.9	20.9	0	0	0	0	0	0	0	0	0	0	0	0.1	0.2	0
45	3/22/2017 19:12:47	0	0	0	0	20.9	20.9	20.9	20.9	0	0	0	0	0	0	0	0	0	0	0	0.1	0.1	0
46	3/22/2017 19:22:47	0	0	0	0	20.9	20.9	20.9	20.9	0	0	0	0	0	0	0	0	0	0	0	0	0.2	0
47	3/22/2017 19:32:47	0	0	0	0	20.9	20.9	20.9	20.9	0	0	0	0	0	0	0	0	0	0	0	0	0.2	0
48	3/22/2017 19:42:47	0	0	0	0	20.9	20.9	20.9	20.9	0	0	0	0	0	0	0	0	0	0	0	0	0.2	0.1
49	3/22/2017 19:52:47	0	0	0	0	20.9	20.9	20.9	20.9	0	0	0	0	0	0	0	0	0	0	0	0.1	0.4	0
50	3/22/2017 20:02:47	0	0	0	0	20.9	20.9	20.9	20.9	0	0	0	0	0	0	0	0	0	0	0	0	0.1	0.1
51	3/22/2017 20:12:47	0	0	0	0	20.9	20.9	20.9	20.9	0	0	0	0	0	0	0	0	0	0	0	0.1	0.2	0
52	3/22/2017 20:22:47	0	0	0	0	20.9	20.9	20.9	20.9	0	0	0	0	0	0	0	0	0	0	0	0.1	0.3	0



108	3/23/2017	5:42:47	0	0	0	0	20.9	20.9	20.9	20.9	0	0	0	0	0	0	0	0	0	0	0.2	0.1	
109	3/23/2017	5:52:47	0	0	0	0	20.9	20.9	20.9	20.9	0	0	0	0	0	0	0	0	0	0	0.3	0	
110	3/23/2017	6:02:47	0	0	0	0	20.9	20.9	20.9	20.9	0	0	0	0	0	0	0	0	0	0	0.1	0	
111	3/23/2017	6:12:47	0	0	0	0	20.9	20.9	20.9	20.9	0	0	0	0	0	0	0	0	0	0	0.1	0	
112	3/23/2017	6:22:47	0	0	0	0	20.9	20.9	20.9	20.9	0	0	0	0	0	0	0	0	0	0	0.1	0	
113	3/23/2017	6:32:47	0	0	0	0	20.9	20.9	20.9	20.9	0	0	0	0	0	0	0	0	0	0	0.1	0	
114	3/23/2017	6:42:47	0	0	0	0	20.9	20.9	20.9	20.9	0	0	0	0	0	0	0	0	0	0	0.1	0	
115	3/23/2017	6:52:47	0	0	0	0	20.9	20.9	20.9	20.9	0	0	0	0	0	0	0	0	0	0	0.2	0	
116	3/23/2017	7:02:47	0	0	0	0	20.9	20.9	20.9	20.9	0	0	0	0	0	0	0	0	0	0	0.2	0	
117	3/23/2017	7:12:47	0	0	0	0	20.9	20.9	20.9	20.9	0	0	0	0	0	0	0	0	0	0	0.2	0.2	
118	3/23/2017	7:22:47	0	0	0	0	20.9	20.9	20.9	20.9	0	0	0	0	0	0	0	0	0	0	0.2	0.1	
119	3/23/2017	7:32:47	0	0	0	0	20.9	20.9	20.9	20.9	0	0	0	0	0	0	0	0	0	0	0.2	0	
120	3/23/2017	7:42:47	0	0	0	0	20.9	20.9	20.9	20.9	0	0	0	0	0	0	0	0	0	0	0.2	0.1	
121	3/23/2017	7:52:47	0	0	0	0	20.9	20.9	20.9	20.9	0	0	0	0	0	0	0	0	0	0	0.2	0	
122	3/23/2017	8:02:47	0	0	0	0	20.9	20.9	20.9	20.9	0	0	0	0	0	0	0	0	0	0	0.3	0	
123	3/23/2017	8:12:47	0	0	0	0	20.9	20.9	20.9	20.9	0	0	0	0	0	0	0	0	0	0	0.1	0.4	0.1
124	3/23/2017	8:22:47	0	0	0	0	20.9	20.9	20.9	20.9	0	0	0	0	0	0	0	0	0	0	0.1	0.4	0
125	3/23/2017	8:32:47	0	0	0	0	20.9	20.9	20.9	20.9	0	0	0	0	0	0	0	0	0	0	0	0.2	0
126	3/23/2017	8:42:47	0	0	0	0	20.9	20.9	20.9	20.9	0	0	0	0	0	0	0	0	0	0	0	0.3	0.2
127	3/23/2017	8:52:47	0	0	0	0	20.9	20.9	20.9	20.9	0	0	0	0	0	0	0	0	0	0	0.1	0.3	0
128	3/23/2017	9:02:47	0	0	0	0	20.9	20.9	20.9	20.9	0	0	0	0	0	0	0	0	0	0	0	0.4	0.2
129	3/23/2017	9:12:47	0	0	0	0	20.9	20.9	20.9	20.9	0	0	0	0	0	0	0	0	0	0	0.1	0.3	0.1
130	3/23/2017	9:22:47	0	0	0	0	20.9	20.9	20.9	20.9	0	0	0	0	0	0	0	0	0	0	0	0.3	0
131	3/23/2017	9:32:47	0	0	0	0	20.9	20.9	20.9	20.9	0	0	0	0	0	0	0	0	0	0	0.1	0.5	0.1
132	3/23/2017	9:42:47	0	0	0	0	20.9	20.9	20.9	20.9	0	0	0	0	0	0	0	0	0	0	0.1	0.6	0
133	3/23/2017	9:52:47	0	0	0	0	20.9	20.9	20.9	20.9	0	0	0	0	0	0	0	0	0	0	0.1	0.7	0
134	3/23/2017	10:02:47	0	0	0	0	20.9	20.9	20.9	20.9	0	0	0	0	0	0	0	0	0	0	0.1	0.6	0
135	3/23/2017	10:12:47	0	0	0	0	20.9	20.9	20.9	20.9	0	0	0	0	0	0	0	0	0	0	0.1	0.6	0.2
136	3/23/2017	10:22:47	0	0	0	0	20.9	20.9	20.9	20.9	0	0	0	0	0	0	0	0	0	0	0.1	0.6	0
137	3/23/2017	10:32:47	0	0	0	0	20.9	20.9	20.9	20.9	0	0	0	0	0	0	0	0	0	0	0.1	0.4	0.1
138	3/23/2017	10:42:47	0	0	0	0	20.9	20.9	20.9	20.9	0	0	0	0	0	0	0	0	0	0	0.1	0.4	0.1
139	3/23/2017	10:52:47	0	0	0	0	20.9	20.9	20.9	20.9	0	0	0	0	0	0	0	0	0	0	0.1	0.5	0.1
140	3/23/2017	11:02:47	0	0	0	0	20.9	20.9	20.9	20.9	0	0	0	0	0	0	0	0	0	0	0.1	0.4	0
141	3/23/2017	11:12:47	0	0	0	0	20.9	20.9	20.9	20.9	0	0	0	0	0	0	0	0	0	0	0	0.2	0
142	3/23/2017	11:22:47	0	0	0	0	20.9	20.9	20.9	20.9	0	0	0	0	0	0	0	0	0	0	0.1	0.3	0
143	3/23/2017	11:32:47	0	0	0	0	20.9	20.9	20.9	20.9	0	0	0	0	0	0	0	0	0	0	0.1	0.4	0.2
144	3/23/2017	11:42:47	0	0	0	0	20.9	20.9	20.9	20.9	0	0	0	0	0	0	0	0	0	0	0.1	0.5	0
Peak			0	0	0	0	20.9	20.9	20.9	20.9	0	0	0	0	0	0	0	0	0	0	0.2	1.1	0.2
Min			0	0	0	0	20.9	20.9	20.9	20.9	0	0	0	0	0	0	0	0	0	0	0	0.1	0
Average			0	0	0	0	20.9	20.9	20.9	20.9	0	0	0	0	0	0	0	0	0	0	0.1	0.3	0.1

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TWA/STEL

Index	Date/Time	H2S(ppm)		CO(ppm)		VOC(ppm)	
		(TWA)	(STEL)	(TWA)	(STEL)	(TWA)	(STEL)
1	3/22/2017 11:52:47	0	---	0	---	0	---
2	3/22/2017 12:02:47	0	0	0	0	0	0.2
3	3/22/2017 12:12:47	0	0	0	0	0	0.2
4	3/22/2017 12:22:47	0	0	0	0	0	0.1
5	3/22/2017 12:32:47	0	0	0	0	0	0.1
6	3/22/2017 12:42:47	0	0	0	0	0	0.1
7	3/22/2017 12:52:47	0	0	0	0	0	0.1
8	3/22/2017 13:02:47	0	0	0	0	0	0.1
9	3/22/2017 13:12:47	0	0	0	0	0	0.1
10	3/22/2017 13:22:47	0	0	0	0	0	0.1

11	3/22/2017	13:32:47	0	0	0	0	0	0.1
12	3/22/2017	13:42:47	0	0	0	0	0	0.1
13	3/22/2017	13:52:47	0	0	0	0	0	0.1
14	3/22/2017	14:02:47	0	0	0	0	0	0.1
15	3/22/2017	14:12:47	0	0	0	0	0	0
16	3/22/2017	14:22:47	0	0	0	0	0	0.1
17	3/22/2017	14:32:47	0	0	0	0	0	0.1
18	3/22/2017	14:42:47	0	0	0	0	0	0.1
19	3/22/2017	14:52:47	0	0	0	0	0	0.1
20	3/22/2017	15:02:47	0	0	0	0	0	0.1
21	3/22/2017	15:12:47	0	0	0	0	0	0.2
22	3/22/2017	15:22:47	0	0	0	0	0	0.2
23	3/22/2017	15:32:47	0	0	0	0	0	0.1
24	3/22/2017	15:42:47	0	0	0	0	0	0.1
25	3/22/2017	15:52:47	0	0	0	0	0	0
26	3/22/2017	16:02:47	0	0	0	0	0	0.1
27	3/22/2017	16:12:47	0	0	0	0	0	0.1
28	3/22/2017	16:22:47	0	0	0	0	0	0.1
29	3/22/2017	16:32:47	0	0	0	0	0.1	0.1
30	3/22/2017	16:42:47	0	0	0	0	0.1	0.1
31	3/22/2017	16:52:47	0	0	0	0	0.1	0.1
32	3/22/2017	17:02:47	0	0	0	0	0.1	0.1
33	3/22/2017	17:12:47	0	0	0	0	0.1	0.1
34	3/22/2017	17:22:47	0	0	0	0	0.1	0.1
35	3/22/2017	17:32:47	0	0	0	0	0.1	0.1
36	3/22/2017	17:42:47	0	0	0	0	0.1	0.1
37	3/22/2017	17:52:47	0	0	0	0	0.1	0.1
38	3/22/2017	18:02:47	0	0	0	0	0.1	0.1
39	3/22/2017	18:12:47	0	0	0	0	0.1	0.1
40	3/22/2017	18:22:47	0	0	0	0	0.1	0.1
41	3/22/2017	18:32:47	0	0	0	0	0.1	0.1
42	3/22/2017	18:42:47	0	0	0	0	0.1	0.1
43	3/22/2017	18:52:47	0	0	0	0	0.1	0.1
44	3/22/2017	19:02:47	0	0	0	0	0.1	0
45	3/22/2017	19:12:47	0	0	0	0	0.1	0
46	3/22/2017	19:22:47	0	0	0	0	0.1	0
47	3/22/2017	19:32:47	0	0	0	0	0.1	0
48	3/22/2017	19:42:47	0	0	0	0	0.1	0.1
49	3/22/2017	19:52:47	0	0	0	0	0.1	0.1
50	3/22/2017	20:02:47	0	0	0	0	0.1	0.1
51	3/22/2017	20:12:47	0	0	0	0	0.1	0.1
52	3/22/2017	20:22:47	0	0	0	0	0.1	0
53	3/22/2017	20:32:47	0	0	0	0	0.1	0.1
54	3/22/2017	20:42:47	0	0	0	0	0.1	0.1
55	3/22/2017	20:52:47	0	0	0	0	0.1	0.1
56	3/22/2017	21:02:47	0	0	0	0	0.1	0.1
57	3/22/2017	21:12:47	0	0	0	0	0.1	0.1
58	3/22/2017	21:22:47	0	0	0	0	0.1	0
59	3/22/2017	21:32:47	0	0	0	0	0.1	0
60	3/22/2017	21:42:47	0	0	0	0	0.1	0
61	3/22/2017	21:52:47	0	0	0	0	0.1	0.1
62	3/22/2017	22:02:47	0	0	0	0	0.1	0.1
63	3/22/2017	22:12:47	0	0	0	0	0.1	0
64	3/22/2017	22:22:47	0	0	0	0	0.1	0
65	3/22/2017	22:32:47	0	0	0	0	0.1	0

66	3/22/2017	22:42:47	0	0	0	0	0.1	0
67	3/22/2017	22:52:47	0	0	0	0	0.1	0
68	3/22/2017	23:02:47	0	0	0	0	0.1	0
69	3/22/2017	23:12:47	0	0	0	0	0.1	0
70	3/22/2017	23:22:47	0	0	0	0	0.1	0
71	3/22/2017	23:32:47	0	0	0	0	0.1	0
72	3/22/2017	23:42:47	0	0	0	0	0.1	0.1
73	3/22/2017	23:52:47	0	0	0	0	0.1	0.1
74	3/23/2017	0:02:47	0	0	0	0	0.1	0.1
75	3/23/2017	0:12:47	0	0	0	0	0.1	0.1
76	3/23/2017	0:22:47	0	0	0	0	0.1	0.1
77	3/23/2017	0:32:47	0	0	0	0	0.1	0.3
78	3/23/2017	0:42:47	0	0	0	0	0.1	0.2
79	3/23/2017	0:52:47	0	0	0	0	0.1	0.1
80	3/23/2017	1:02:47	0	0	0	0	0.1	0.1
81	3/23/2017	1:12:47	0	0	0	0	0.1	0.1
82	3/23/2017	1:22:47	0	0	0	0	0.1	0.1
83	3/23/2017	1:32:47	0	0	0	0	0.1	0.1
84	3/23/2017	1:42:47	0	0	0	0	0.1	0.1
85	3/23/2017	1:52:47	0	0	0	0	0.1	0.1
86	3/23/2017	2:02:47	0	0	0	0	0.1	0.2
87	3/23/2017	2:12:47	0	0	0	0	0.1	0.1
88	3/23/2017	2:22:47	0	0	0	0	0.1	0
89	3/23/2017	2:32:47	0	0	0	0	0.1	0.1
90	3/23/2017	2:42:47	0	0	0	0	0.1	0.1
91	3/23/2017	2:52:47	0	0	0	0	0.1	0
92	3/23/2017	3:02:47	0	0	0	0	0.1	0.1
93	3/23/2017	3:12:47	0	0	0	0	0.1	0.2
94	3/23/2017	3:22:47	0	0	0	0	0.1	0.2
95	3/23/2017	3:32:47	0	0	0	0	0.1	0.1
96	3/23/2017	3:42:47	0	0	0	0	0.1	0
97	3/23/2017	3:52:47	0	0	0	0	0.1	0.1
98	3/23/2017	4:02:47	0	0	0	0	0.1	0.1
99	3/23/2017	4:12:47	0	0	0	0	0.1	0
100	3/23/2017	4:22:47	0	0	0	0	0.1	0
101	3/23/2017	4:32:47	0	0	0	0	0.1	0.1
102	3/23/2017	4:42:47	0	0	0	0	0.1	0.1
103	3/23/2017	4:52:47	0	0	0	0	0.1	0.1
104	3/23/2017	5:02:47	0	0	0	0	0.1	0.1
105	3/23/2017	5:12:47	0	0	0	0	0.1	0
106	3/23/2017	5:22:47	0	0	0	0	0.1	0
107	3/23/2017	5:32:47	0	0	0	0	0.1	0
108	3/23/2017	5:42:47	0	0	0	0	0.1	0.1
109	3/23/2017	5:52:47	0	0	0	0	0.1	0.1
110	3/23/2017	6:02:47	0	0	0	0	0.1	0
111	3/23/2017	6:12:47	0	0	0	0	0.1	0
112	3/23/2017	6:22:47	0	0	0	0	0.1	0
113	3/23/2017	6:32:47	0	0	0	0	0.1	0
114	3/23/2017	6:42:47	0	0	0	0	0.1	0
115	3/23/2017	6:52:47	0	0	0	0	0.1	0
116	3/23/2017	7:02:47	0	0	0	0	0.1	0
117	3/23/2017	7:12:47	0	0	0	0	0.1	0.1
118	3/23/2017	7:22:47	0	0	0	0	0.2	0.2
119	3/23/2017	7:32:47	0	0	0	0	0.2	0.1
120	3/23/2017	7:42:47	0	0	0	0	0.2	0.1

121	3/23/2017	7:52:47	0	0	0	0	0.2	0.1
122	3/23/2017	8:02:47	0	0	0	0	0.2	0
123	3/23/2017	8:12:47	0	0	0	0	0.2	0.1
124	3/23/2017	8:22:47	0	0	0	0	0.2	0.1
125	3/23/2017	8:32:47	0	0	0	0	0.2	0
126	3/23/2017	8:42:47	0	0	0	0	0.2	0.1
127	3/23/2017	8:52:47	0	0	0	0	0.2	0.1
128	3/23/2017	9:02:47	0	0	0	0	0.2	0.1
129	3/23/2017	9:12:47	0	0	0	0	0.2	0.2
130	3/23/2017	9:22:47	0	0	0	0	0.2	0.1
131	3/23/2017	9:32:47	0	0	0	0	0.2	0.1
132	3/23/2017	9:42:47	0	0	0	0	0.2	0.1
133	3/23/2017	9:52:47	0	0	0	0	0.2	0
134	3/23/2017	10:02:47	0	0	0	0	0.2	0
135	3/23/2017	10:12:47	0	0	0	0	0.2	0.1
136	3/23/2017	10:22:47	0	0	0	0	0.2	0.1
137	3/23/2017	10:32:47	0	0	0	0	0.2	0.1
138	3/23/2017	10:42:47	0	0	0	0	0.2	0.1
139	3/23/2017	10:52:47	0	0	0	0	0.2	0.1
140	3/23/2017	11:02:47	0	0	0	0	0.2	0.1
141	3/23/2017	11:12:47	0	0	0	0	0.2	0
142	3/23/2017	11:22:47	0	0	0	0	0.2	0
143	3/23/2017	11:32:47	0	0	0	0	0.2	0.1
144	3/23/2017	11:42:47	0	0	0	0	0.2	0.1

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17/03/23 11:42  
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Summary

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Unit Name MultiRAE(PGM-6228)  
Unit SN MBB3Z064Q8  
Unit Firmware Ver V1.31  
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Running Mode Hygiene Mode  
Datalog Mode Auto  
Diagnostic Mode No  
Stop Reason Schedule Stop  
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Site ID 194  
User ID 0  
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Begin 3/23/2017 11:42:47  
End 3/24/2017 11:42:47  
Sample Period(s) 600  
Number of Records 144  
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Sensor	SN	LEL(%LEL)	OXY(%)	H2S(ppm)	CO(ppm)	VOC(ppm)	
SC0311128	SC0342108	SC03AR006	SC0306033	SC03A40150Q7			
Measure	Type	Min	Avg	Max	Real	Min	Avg
Span		50	18	1	50	10	
Span		2 N/A	N/A	N/A	N/A	1000	
Low	Alarm	10	19.5	10	35	50	
High	Alarm	20	23.5	20	200	100	
Over	Alarm	100	30	100	500	5000	
STEL	Alarm	N/A	N/A	15	100	25	

Max	Real	Min	Avg	Max	Real	Min	Avg	Max	Real	Min	Avg	Max	Real
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TWA	Alarm	N/A	N/A	10	35	10																	
Measurment	Gas(CF)	Methane(1N/A	N/A	N/A	N/A	Isobutylene(1.00)																	
Calibration	Time	3/2/2017	10:33	3/2/2017	10:33	3/2/2017	10:38	3/2/2017	10:33	3/2/2017	10:35												
Peak		0	20.9	0	0	2.1																	
Min		0	20.9	0	0	0																	
Average		0	20.9	0	0	0.2																	

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Datalog

Index	Date/Time	LEL(%LEL) (Min)	LEL(%LEL) (Avg)	LEL(%LEL) (Max)	LEL(%LEL) (Real)	OXY(% (Min)	OXY(% (Avg)	OXY(% (Max)	OXY(% (Real)	H2S(ppm) (Min)	H2S(ppm) (Avg)	H2S(ppm) (Max)	H2S(ppm) (Real)	CO(ppm) (Min)	CO(ppm) (Avg)	CO(ppm) (Max)	CO(ppm) (Real)	VOC(ppm) (Min)	VOC(ppm) (Avg)	VOC(ppm) (Max)	VOC(ppm) (Real)	
1	3/23/2017 11:52:47	0	0	0	0	20.9	20.9	20.9	20.9	0	0	0	0	0	0	0	0	0	0	0.1	0.3	0.1
2	3/23/2017 12:02:47	0	0	0	0	20.9	20.9	20.9	20.9	0	0	0	0	0	0	0	0	0	0	0.1	0.4	0.2
3	3/23/2017 12:12:47	0	0	0	0	20.9	20.9	20.9	20.9	0	0	0	0	0	0	0	0	0	0	0.1	0.5	0
4	3/23/2017 12:22:47	0	0	0	0	20.9	20.9	20.9	20.9	0	0	0	0	0	0	0	0	0	0	0.1	0.4	0
5	3/23/2017 12:32:47	0	0	0	0	20.9	20.9	20.9	20.9	0	0	0	0	0	0	0	0	0	0	0.1	0.3	0
6	3/23/2017 12:42:47	0	0	0	0	20.9	20.9	20.9	20.9	0	0	0	0	0	0	0	0	0	0	0.1	0.5	0.1
7	3/23/2017 12:52:47	0	0	0	0	20.9	20.9	20.9	20.9	0	0	0	0	0	0	0	0	0	0	0	0.4	0
8	3/23/2017 13:02:47	0	0	0	0	20.9	20.9	20.9	20.9	0	0	0	0	0	0	0	0	0	0	0.1	1	0
9	3/23/2017 13:12:47	0	0	0	0	20.9	20.9	20.9	20.9	0	0	0	0	0	0	0	0	0	0	0	0.3	0
10	3/23/2017 13:22:47	0	0	0	0	20.9	20.9	20.9	20.9	0	0	0	0	0	0	0	0	0	0	0.1	0.3	0.2
11	3/23/2017 13:32:47	0	0	0	0	20.9	20.9	20.9	20.9	0	0	0	0	0	0	0	0	0	0	0.1	0.3	0
12	3/23/2017 13:42:47	0	0	0	0	20.9	20.9	20.9	20.9	0	0	0	0	0	0	0	0	0	0	0.1	0.3	0.1
13	3/23/2017 13:52:47	0	0	0	0	20.9	20.9	20.9	20.9	0	0	0	0	0	0	0	0	0	0	0	0.2	0.1
14	3/23/2017 14:02:47	0	0	0	0	20.9	20.9	20.9	20.9	0	0	0	0	0	0	0	0	0	0	0	0.2	0
15	3/23/2017 14:12:47	0	0	0	0	20.9	20.9	20.9	20.9	0	0	0	0	0	0	0	0	0	0	0	0.3	0
16	3/23/2017 14:22:47	0	0	0	0	20.9	20.9	20.9	20.9	0	0	0	0	0	0	0	0	0	0	0.1	0.7	0
17	3/23/2017 14:32:47	0	0	0	0	20.9	20.9	20.9	20.9	0	0	0	0	0	0	0	0	0	0	0.1	0.3	0
18	3/23/2017 14:42:47	0	0	0	0	20.9	20.9	20.9	20.9	0	0	0	0	0	0	0	0	0	0	0.1	0.2	0
19	3/23/2017 14:52:47	0	0	0	0	20.9	20.9	20.9	20.9	0	0	0	0	0	0	0	0	0	0	0.1	0.5	0
20	3/23/2017 15:02:47	0	0	0	0	20.9	20.9	20.9	20.9	0	0	0	0	0	0	0	0	0	0	0.1	0.3	0
21	3/23/2017 15:12:47	0	0	0	0	20.9	20.9	20.9	20.9	0	0	0	0	0	0	0	0	0	0	0	0.2	0
22	3/23/2017 15:22:47	0	0	0	0	20.9	20.9	20.9	20.9	0	0	0	0	0	0	0	0	0	0	0.1	0.7	0.2
23	3/23/2017 15:32:47	0	0	0	0	20.9	20.9	20.9	20.9	0	0	0	0	0	0	0	0	0	0	0	0.3	0
24	3/23/2017 15:42:47	0	0	0	0	20.9	20.9	20.9	20.9	0	0	0	0	0	0	0	0	0	0	0	0.1	0
25	3/23/2017 15:52:47	0	0	0	0	20.9	20.9	20.9	20.9	0	0	0	0	0	0	0	0	0	0	0.1	0.2	0.1
26	3/23/2017 16:02:47	0	0	0	0	20.9	20.9	20.9	20.9	0	0	0	0	0	0	0	0	0	0	0	0.1	0.1
27	3/23/2017 16:12:47	0	0	0	0	20.9	20.9	20.9	20.9	0	0	0	0	0	0	0	0	0	0	0.1	0.3	0
28	3/23/2017 16:22:47	0	0	0	0	20.9	20.9	20.9	20.9	0	0	0	0	0	0	0	0	0	0	0.1	0.5	0.4
29	3/23/2017 16:32:47	0	0	0	0	20.9	20.9	20.9	20.9	0	0	0	0	0	0	0	0	0	0	0.1	0.4	0.1
30	3/23/2017 16:42:47	0	0	0	0	20.9	20.9	20.9	20.9	0	0	0	0	0	0	0	0	0	0	0	0.2	0
31	3/23/2017 16:52:47	0	0	0	0	20.9	20.9	20.9	20.9	0	0	0	0	0	0	0	0	0	0	0	0.4	0.1
32	3/23/2017 17:02:47	0	0	0	0	20.9	20.9	20.9	20.9	0	0	0	0	0	0	0	0	0	0	0	0.2	0
33	3/23/2017 17:12:47	0	0	0	0	20.9	20.9	20.9	20.9	0	0	0	0	0	0	0	0	0	0	0.1	0.4	0.1
34	3/23/2017 17:22:47	0	0	0	0	20.9	20.9	20.9	20.9	0	0	0	0	0	0	0	0	0	0	0.1	0.5	0.1
35	3/23/2017 17:32:47	0	0	0	0	20.9	20.9	20.9	20.9	0	0	0	0	0	0	0	0	0	0	0.1	0.4	0.1
36	3/23/2017 17:42:47	0	0	0	0	20.9	20.9	20.9	20.9	0	0	0	0	0	0	0	0	0	0	0.1	0.6	0.2
37	3/23/2017 17:52:47	0	0	0	0	20.9	20.9	20.9	20.9	0	0	0	0	0	0	0	0	0	0	0.1	0.4	0
38	3/23/2017 18:02:47	0	0	0	0	20.9	20.9	20.9	20.9	0	0	0	0	0	0	0	0	0	0	0	0.3	0.2
39	3/23/2017 18:12:47	0	0	0	0	20.9	20.9	20.9	20.9	0	0	0	0	0	0	0	0	0	0	0.2	0.5	0
40	3/23/2017 18:22:47	0	0	0	0	20.9	20.9	20.9	20.9	0	0	0	0	0	0	0	0	0	0	0.1	0.5	0.4
41	3/23/2017 18:32:47	0	0	0	0	20.9	20.9	20.9	20.9	0	0	0	0	0	0	0	0	0	0	0.1	1.2	0
42	3/23/2017 18:42:47	0	0	0	0	20.9	20.9	20.9	20.9	0	0	0	0	0	0	0	0	0	0	0.3	2.4	0.1
43	3/23/2017 18:52:47	0	0	0	0	20.9	20.9	20.9	20.9	0	0	0	0	0	0	0	0	0	0	0.3	1.3	0
44	3/23/2017 19:02:47	0	0	0	0	20.9	20.9	20.9	20.9	0	0	0	0	0	0	0	0	0	0	0.2	1.6	0

45	3/23/2017	19:12:47	0	0	0	0	20.9	20.9	20.9	20.9	0	0	0	0	0	0	0	0	0	0	0.1	0		
46	3/23/2017	19:22:47	0	0	0	0	20.9	20.9	20.9	20.9	0	0	0	0	0	0	0	0	0	0	0	0.5	0	
47	3/23/2017	19:32:47	0	0	0	0	20.9	20.9	20.9	20.9	0	0	0	0	0	0	0	0	0	0	0.1	0.8	0	
48	3/23/2017	19:42:47	0	0	0	0	20.9	20.9	20.9	20.9	0	0	0	0	0	0	0	0	0	0	0.1	0.6	0	
49	3/23/2017	19:52:47	0	0	0	0	20.9	20.9	20.9	20.9	0	0	0	0	0	0	0	0	0	0	0	0.4	0	
50	3/23/2017	20:02:47	0	0	0	0	20.9	20.9	20.9	20.9	0	0	0	0	0	0	0	0	0	0	0.1	0.9	0.1	
51	3/23/2017	20:12:47	0	0	0	0	20.9	20.9	20.9	20.9	0	0	0	0	0	0	0	0	0	0	0.1	1.1	0.3	
52	3/23/2017	20:22:47	0	0	0	0	20.9	20.9	20.9	20.9	0	0	0	0	0	0	0	0	0	0	0.4	1.9	0.1	
53	3/23/2017	20:32:47	0	0	0	0	20.9	20.9	20.9	20.9	0	0	0	0	0	0	0	0	0	0	0.1	0.6	0	
54	3/23/2017	20:42:47	0	0	0	0	20.9	20.9	20.9	20.9	0	0	0	0	0	0	0	0	0	0	0.2	0.8	0.1	
55	3/23/2017	20:52:47	0	0	0	0	20.9	20.9	20.9	20.9	0	0	0	0	0	0	0	0	0	0	0.3	2.3	0.4	
56	3/23/2017	21:02:47	0	0	0	0	20.9	20.9	20.9	20.9	0	0	0	0	0	0	0	0	0	0	0.1	0.9	0.3	
57	3/23/2017	21:12:47	0	0	0	0	20.9	20.9	20.9	20.9	0	0	0	0	0	0	0	0	0	0	0.3	1.1	0	
58	3/23/2017	21:22:47	0	0	0	0	20.9	20.9	20.9	20.9	0	0	0	0	0	0	0	0	0	0	0.6	2.1	1	
59	3/23/2017	21:32:47	0	0	0	0	20.9	20.9	20.9	20.9	0	0	0	0	0	0	0	0	0	0	0.8	3.9	0.2	
60	3/23/2017	21:42:47	0	0	0	0	20.9	20.9	20.9	20.9	0	0	0	0	0	0	0	0	0	0	0.2	1	0.1	
61	3/23/2017	21:52:47	0	0	0	0	20.9	20.9	20.9	20.9	0	0	0	0	0	0	0	0	0	0	0.2	0.9	0.3	
62	3/23/2017	22:02:47	0	0	0	0	20.9	20.9	20.9	20.9	0	0	0	0	0	0	0	0	0	0	0.2	0.8	0	
63	3/23/2017	22:12:47	0	0	0	0	20.9	20.9	20.9	20.9	0	0	0	0	0	0	0	0	0	0	0.2	0.8	0.2	
64	3/23/2017	22:22:47	0	0	0	0	20.9	20.9	20.9	20.9	0	0	0	0	0	0	0	0	0	0	0.3	0.8	0.1	
65	3/23/2017	22:32:47	0	0	0	0	20.9	20.9	20.9	20.9	0	0	0	0	0	0	0	0	0	0	0.1	0.5	0.1	
66	3/23/2017	22:42:47	0	0	0	0	20.9	20.9	20.9	20.9	0	0	0	0	0	0	0	0	0	0	0.4	1.5	0.1	
67	3/23/2017	22:52:47	0	0	0	0	20.9	20.9	20.9	20.9	0	0	0	0	0	0	0	0	0	0	0.3	1.2	0	
68	3/23/2017	23:02:47	0	0	0	0	20.9	20.9	20.9	20.9	0	0	0	0	0	0	0	0	0	0	0.1	0.5	0	
69	3/23/2017	23:12:47	0	0	0	0	20.9	20.9	20.9	20.9	0	0	0	0	0	0	0	0	0	0	0.1	0.5	0.1	
70	3/23/2017	23:22:47	0	0	0	0	20.9	20.9	20.9	20.9	0	0	0	0	0	0	0	0	0	0	0.4	1.5	0.3	
71	3/23/2017	23:32:47	0	0	0	0	20.9	20.9	20.9	20.9	0	0	0	0	0	0	0	0	0	0	0.5	1.5	0.2	
72	3/23/2017	23:42:47	0	0	0	0	20.9	20.9	20.9	20.9	0	0	0	0	0	0	0	0	0	0	0.1	0.5	1.8	0.3
73	3/23/2017	23:52:47	0	0	0	0	20.9	20.9	20.9	20.9	0	0	0	0	0	0	0	0	0	0	0.3	1.1	0.2	
74	3/24/2017	0:02:47	0	0	0	0	20.9	20.9	20.9	20.9	0	0	0	0	0	0	0	0	0	0	0.2	0.6	0.2	
75	3/24/2017	0:12:47	0	0	0	0	20.9	20.9	20.9	20.9	0	0	0	0	0	0	0	0	0	0	0.2	0.6	0.6	
76	3/24/2017	0:22:47	0	0	0	0	20.9	20.9	20.9	20.9	0	0	0	0	0	0	0	0	0	0	0.2	0.8	0.1	
77	3/24/2017	0:32:47	0	0	0	0	20.9	20.9	20.9	20.9	0	0	0	0	0	0	0	0	0	0	0.1	0.4	0.3	
78	3/24/2017	0:42:47	0	0	0	0	20.9	20.9	20.9	20.9	0	0	0	0	0	0	0	0	0	0	0.1	0.4	0.3	
79	3/24/2017	0:52:47	0	0	0	0	20.9	20.9	20.9	20.9	0	0	0	0	0	0	0	0	0	0	0.1	0.6	0.2	
80	3/24/2017	1:02:47	0	0	0	0	20.9	20.9	20.9	20.9	0	0	0	0	0	0	0	0	0	0	0.1	0.6	0	
81	3/24/2017	1:12:47	0	0	0	0	20.9	20.9	20.9	20.9	0	0	0	0	0	0	0	0	0	0	0.2	0.9	0	
82	3/24/2017	1:22:47	0	0	0	0	20.9	20.9	20.9	20.9	0	0	0	0	0	0	0	0	0	0	0.1	0.6	0	
83	3/24/2017	1:32:47	0	0	0	0	20.9	20.9	20.9	20.9	0	0	0	0	0	0	0	0	0	0	0.1	0.9	0	
84	3/24/2017	1:42:47	0	0	0	0	20.9	20.9	20.9	20.9	0	0	0	0	0	0	0	0	0	0	0.1	0.5	0	
85	3/24/2017	1:52:47	0	0	0	0	20.9	20.9	20.9	20.9	0	0	0	0	0	0	0	0	0	0	0	0.4	0	
86	3/24/2017	2:02:47	0	0	0	0	20.9	20.9	20.9	20.9	0	0	0	0	0	0	0	0	0	0	0.3	1.4	0.4	
87	3/24/2017	2:12:47	0	0	0	0	20.9	20.9	20.9	20.9	0	0	0	0	0	0	0	0	0	0	0.3	1	0	
88	3/24/2017	2:22:47	0	0	0	0	20.9	20.9	20.9	20.9	0	0	0	0	0	0	0	0	0	0	0.3	1.4	0.3	
89	3/24/2017	2:32:47	0	0	0	0	20.9	20.9	20.9	20.9	0	0	0	0	0	0	0	0	0	0	0.4	1.1	0	
90	3/24/2017	2:42:47	0	0	0	0	20.9	20.9	20.9	20.9	0	0	0	0	0	0	0	0	0	0	0.1	0.6	0.1	
91	3/24/2017	2:52:47	0	0	0	0	20.9	20.9	20.9	20.9	0	0	0	0	0	0	0	0	0	0	0	0.2	0.1	
92	3/24/2017	3:02:47	0	0	0	0	20.9	20.9	20.9	20.9	0	0	0	0	0	0	0	0	0	0	0.1	0.3	0.1	
93	3/24/2017	3:12:47	0	0	0	0	20.9	20.9	20.9	20.9	0	0	0	0	0	0	0	0	0	0	0.1	0.8	0.1	
94	3/24/2017	3:22:47	0	0	0	0	20.9	20.9	20.9	20.9	0	0	0	0	0	0	0	0	0	0	0.1	0.6	0.2	
95	3/24/2017	3:32:47	0	0	0	0	20.9	20.9	20.9	20.9	0	0	0	0	0	0	0	0	0	0	0.1	0.4	0.2	
96	3/24/2017	3:42:47	0	0	0	0	20.9	20.9	20.9	20.9	0	0	0	0	0	0	0	0	0	0	0.1	0.7	0.2	
97	3/24/2017	3:52:47	0	0	0	0	20.9	20.9	20.9	20.9	0	0	0	0	0	0	0	0	0	0	0.1	0.4	0	
98	3/24/2017	4:02:47	0	0	0	0	20.9	20.9	20.9	20.9	0	0	0	0	0	0	0	0	0	0	0.1	0.4	0.4	
99	3/24/2017	4:12:47	0	0	0	0	20.9	20.9	20.9	20.9	0	0	0	0	0	0	0	0	0	0	0.3	0.7	0.7	



100	3/24/2017	4:22:47	0	0	0	0	20.9	20.9	20.9	20.9	0	0	0	0	0	0	0	0	0.1	0.4	0.9	0.4
101	3/24/2017	4:32:47	0	0	0	0	20.9	20.9	20.9	20.9	0	0	0	0	0	0	0	0	0	0.2	0.9	0.2
102	3/24/2017	4:42:47	0	0	0	0	20.9	20.9	20.9	20.9	0	0	0	0	0	0	0	0	0	0.3	0.7	0.6
103	3/24/2017	4:52:47	0	0	0	0	20.9	20.9	20.9	20.9	0	0	0	0	0	0	0	0	0	0.3	0.9	0.6
104	3/24/2017	5:02:47	0	0	0	0	20.9	20.9	20.9	20.9	0	0	0	0	0	0	0	0	0.1	0.5	1.3	0.7
105	3/24/2017	5:12:47	0	0	0	0	20.9	20.9	20.9	20.9	0	0	0	0	0	0	0	0	0	0.3	1.2	0.2
106	3/24/2017	5:22:47	0	0	0	0	20.9	20.9	20.9	20.9	0	0	0	0	0	0	0	0	0	0.1	0.7	0.1
107	3/24/2017	5:32:47	0	0	0	0	20.9	20.9	20.9	20.9	0	0	0	0	0	0	0	0	0	0.1	0.6	0
108	3/24/2017	5:42:47	0	0	0	0	20.9	20.9	20.9	20.9	0	0	0	0	0	0	0	0	0	0.1	0.3	0.1
109	3/24/2017	5:52:47	0	0	0	0	20.9	20.9	20.9	20.9	0	0	0	0	0	0	0	0	0	0.2	0.7	0.1
110	3/24/2017	6:02:47	0	0	0	0	20.9	20.9	20.9	20.9	0	0	0	0	0	0	0	0	0	0.2	0.9	0.4
111	3/24/2017	6:12:47	0	0	0	0	20.9	20.9	20.9	20.9	0	0	0	0	0	0	0	0	0	0.2	0.9	0.2
112	3/24/2017	6:22:47	0	0	0	0	20.9	20.9	20.9	20.9	0	0	0	0	0	0	0	0	0	0.3	0.8	0.1
113	3/24/2017	6:32:47	0	0	0	0	20.9	20.9	20.9	20.9	0	0	0	0	0	0	0	0	0	0.6	1.7	1
114	3/24/2017	6:42:47	0	0	0	0	20.9	20.9	20.9	20.9	0	0	0	0	0	0	0	0	0.1	0.4	1.3	0.3
115	3/24/2017	6:52:47	0	0	0	0	20.9	20.9	20.9	20.9	0	0	0	0	0	0	0	0	0	0.3	0.5	0.1
116	3/24/2017	7:02:47	0	0	0	0	20.9	20.9	20.9	20.9	0	0	0	0	0	0	0	0	0.1	0.4	1	0.6
117	3/24/2017	7:12:47	0	0	0	0	20.9	20.9	20.9	20.9	0	0	0	0	0	0	0	0	0.2	1	2.7	1.2
118	3/24/2017	7:22:47	0	0	0	0	20.9	20.9	20.9	20.9	0	0	0	0	0	0	0	0	0	0.4	1.2	0.5
119	3/24/2017	7:32:47	0	0	0	0	20.9	20.9	20.9	20.9	0	0	0	0	0	0	0	0	0.1	0.8	2	0.8
120	3/24/2017	7:42:47	0	0	0	0	20.9	20.9	20.9	20.9	0	0	0	0	0	0	0	0	0.1	0.5	1.2	0.5
121	3/24/2017	7:52:47	0	0	0	0	20.9	20.9	20.9	20.9	0	0	0	0	0	0	0	0	0	0.4	0.8	0.5
122	3/24/2017	8:02:47	0	0	0	0	20.9	20.9	20.9	20.9	0	0	0	0	0	0	0	0	0	0.3	0.8	0
123	3/24/2017	8:12:47	0	0	0	0	20.9	20.9	20.9	20.9	0	0	0	0	0	0	0	0	0	0.1	0.9	0
124	3/24/2017	8:22:47	0	0	0	0	20.9	20.9	20.9	20.9	0	0	0	0	0	0	0	0	0	0.3	0.7	0.5
125	3/24/2017	8:32:47	0	0	0	0	20.9	20.9	20.9	20.9	0	0	0	0	0	0	0	0	0	0.4	1	0.5
126	3/24/2017	8:42:47	0	0	0	0	20.9	20.9	20.9	20.9	0	0	0	0	0	0	0	0	0	0.4	0.8	0.5
127	3/24/2017	8:52:47	0	0	0	0	20.9	20.9	20.9	20.9	0	0	0	0	0	0	0	0	0	0.2	0.6	0.4
128	3/24/2017	9:02:47	0	0	0	0	20.9	20.9	20.9	20.9	0	0	0	0	0	0	0	0	0.1	0.4	1	0.9
129	3/24/2017	9:12:47	0	0	0	0	20.9	20.9	20.9	20.9	0	0	0	0	0	0	0	0	0	0.3	0.8	0.2
130	3/24/2017	9:22:47	0	0	0	0	20.9	20.9	20.9	20.9	0	0	0	0	0	0	0	0	0	0.3	1.1	0.1
131	3/24/2017	9:32:47	0	0	0	0	20.9	20.9	20.9	20.9	0	0	0	0	0	0	0	0	0	0.1	0.8	0.2
132	3/24/2017	9:42:47	0	0	0	0	20.9	20.9	20.9	20.9	0	0	0	0	0	0	0	0	0	0.1	0.7	0.7
133	3/24/2017	9:52:47	0	0	0	0	20.9	20.9	20.9	20.9	0	0	0	0	0	0	0	0	0	0.1	0.7	0.1
134	3/24/2017	10:02:47	0	0	0	0	20.9	20.9	20.9	20.9	0	0	0	0	0	0	0	0	0	0	0.3	0.1
135	3/24/2017	10:12:47	0	0	0	0	20.9	20.9	20.9	20.9	0	0	0	0	0	0	0	0	0	0.2	0.7	0.1
136	3/24/2017	10:22:47	0	0	0	0	20.9	20.9	20.9	20.9	0	0	0	0	0	0	0	0	0	0.2	2.1	1.9
137	3/24/2017	10:32:47	0	0	0	0	20.9	20.9	20.9	20.9	0	0	0	0	0	0	0	0	0	0.3	1.9	0.2
138	3/24/2017	10:42:47	0	0	0	0	20.9	20.9	20.9	20.9	0	0	0	0	0	0	0	0	0	0.1	0.6	0
139	3/24/2017	10:52:47	0	0	0	0	20.9	20.9	20.9	20.9	0	0	0	0	0	0	0	0	0	0.3	1.3	0.1
140	3/24/2017	11:02:47	0	0	0	0	20.9	20.9	20.9	20.9	0	0	0	0	0	0	0	0	0	0.2	1.5	0.1
141	3/24/2017	11:12:47	0	0	0	0	20.9	20.9	20.9	20.9	0	0	0	0	0	0	0	0	0	0.1	1.1	0
142	3/24/2017	11:22:47	0	0	0	0	20.9	20.9	20.9	20.9	0	0	0	0	0	0	0	0	0	0.7	2.5	2.1
143	3/24/2017	11:32:47	0	0	0	0	20.9	20.9	20.9	20.9	0	0	0	0	0	0	0	0	0	0.7	2.7	0.1
144	3/24/2017	11:42:47	0	0	0	0	20.9	20.9	20.9	20.9	0	0	0	0	0	0	0	0	0	0.5	3.2	0.5
Peak			0	0	0	0	20.9	20.9	20.9	20.9	0	0	0	0	0	0	0	0	0.2	1	3.9	2.1
Min			0	0	0	0	20.9	20.9	20.9	20.9	0	0	0	0	0	0	0	0	0	0	0.1	0
Average			0	0	0	0	20.9	20.9	20.9	20.9	0	0	0	0	0	0	0	0	0	0.2	0.8	0.2

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TWA/STEL

Index	Date/Time		H2S(ppm)		CO(ppm)		VOC(ppm)	
			(TWA)	(STEL)	(TWA)	(STEL)	(TWA)	(STEL)
1	3/23/2017	11:52:47	0	---	0	---	0	---
2	3/23/2017	12:02:47	0	0	0	0	0	0.2

3	3/23/2017	12:12:47	0	0	0	0	0	0.1
4	3/23/2017	12:22:47	0	0	0	0	0	0
5	3/23/2017	12:32:47	0	0	0	0	0	0
6	3/23/2017	12:42:47	0	0	0	0	0	0.1
7	3/23/2017	12:52:47	0	0	0	0	0	0.1
8	3/23/2017	13:02:47	0	0	0	0	0	0
9	3/23/2017	13:12:47	0	0	0	0	0	0
10	3/23/2017	13:22:47	0	0	0	0	0	0.1
11	3/23/2017	13:32:47	0	0	0	0	0	0.1
12	3/23/2017	13:42:47	0	0	0	0	0	0.1
13	3/23/2017	13:52:47	0	0	0	0	0	0.1
14	3/23/2017	14:02:47	0	0	0	0	0	0.1
15	3/23/2017	14:12:47	0	0	0	0	0	0
16	3/23/2017	14:22:47	0	0	0	0	0	0
17	3/23/2017	14:32:47	0	0	0	0	0	0
18	3/23/2017	14:42:47	0	0	0	0	0	0
19	3/23/2017	14:52:47	0	0	0	0	0	0
20	3/23/2017	15:02:47	0	0	0	0	0	0
21	3/23/2017	15:12:47	0	0	0	0	0	0
22	3/23/2017	15:22:47	0	0	0	0	0	0.1
23	3/23/2017	15:32:47	0	0	0	0	0	0.1
24	3/23/2017	15:42:47	0	0	0	0	0	0
25	3/23/2017	15:52:47	0	0	0	0	0	0.1
26	3/23/2017	16:02:47	0	0	0	0	0	0.1
27	3/23/2017	16:12:47	0	0	0	0	0	0.1
28	3/23/2017	16:22:47	0	0	0	0	0	0.3
29	3/23/2017	16:32:47	0	0	0	0	0	0.3
30	3/23/2017	16:42:47	0	0	0	0	0	0.1
31	3/23/2017	16:52:47	0	0	0	0	0	0.1
32	3/23/2017	17:02:47	0	0	0	0	0	0.1
33	3/23/2017	17:12:47	0	0	0	0	0	0.1
34	3/23/2017	17:22:47	0	0	0	0	0	0.1
35	3/23/2017	17:32:47	0	0	0	0	0	0.1
36	3/23/2017	17:42:47	0	0	0	0	0	0.2
37	3/23/2017	17:52:47	0	0	0	0	0	0.1
38	3/23/2017	18:02:47	0	0	0	0	0.1	0.1
39	3/23/2017	18:12:47	0	0	0	0	0.1	0.1
40	3/23/2017	18:22:47	0	0	0	0	0.1	0.3
41	3/23/2017	18:32:47	0	0	0	0	0.1	0.3
42	3/23/2017	18:42:47	0	0	0	0	0.1	0.1
43	3/23/2017	18:52:47	0	0	0	0	0.1	0.1
44	3/23/2017	19:02:47	0	0	0	0	0.1	0
45	3/23/2017	19:12:47	0	0	0	0	0.1	0
46	3/23/2017	19:22:47	0	0	0	0	0.1	0
47	3/23/2017	19:32:47	0	0	0	0	0.1	0
48	3/23/2017	19:42:47	0	0	0	0	0.1	0
49	3/23/2017	19:52:47	0	0	0	0	0.1	0
50	3/23/2017	20:02:47	0	0	0	0	0.1	0.1
51	3/23/2017	20:12:47	0	0	0	0	0.1	0.3
52	3/23/2017	20:22:47	0	0	0	0	0.1	0.3
53	3/23/2017	20:32:47	0	0	0	0	0.1	0.1
54	3/23/2017	20:42:47	0	0	0	0	0.1	0.1
55	3/23/2017	20:52:47	0	0	0	0	0.1	0.3
56	3/23/2017	21:02:47	0	0	0	0	0.1	0.5
57	3/23/2017	21:12:47	0	0	0	0	0.1	0.2

58	3/23/2017	21:22:47	0	0	0	0	0.1	0.7
59	3/23/2017	21:32:47	0	0	0	0	0.1	0.8
60	3/23/2017	21:42:47	0	0	0	0	0.1	0.2
61	3/23/2017	21:52:47	0	0	0	0	0.1	0.3
62	3/23/2017	22:02:47	0	0	0	0	0.1	0.2
63	3/23/2017	22:12:47	0	0	0	0	0.1	0.1
64	3/23/2017	22:22:47	0	0	0	0	0.1	0.2
65	3/23/2017	22:32:47	0	0	0	0	0.1	0.1
66	3/23/2017	22:42:47	0	0	0	0	0.1	0.1
67	3/23/2017	22:52:47	0	0	0	0	0.1	0.1
68	3/23/2017	23:02:47	0	0	0	0	0.1	0
69	3/23/2017	23:12:47	0	0	0	0	0.1	0.1
70	3/23/2017	23:22:47	0	0	0	0	0.1	0.3
71	3/23/2017	23:32:47	0	0	0	0	0.1	0.3
72	3/23/2017	23:42:47	0	0	0	0	0.2	0.3
73	3/23/2017	23:52:47	0	0	0	0	0.2	0.3
74	3/24/2017	0:02:47	0	0	0	0	0.2	0.3
75	3/24/2017	0:12:47	0	0	0	0	0.2	0.5
76	3/24/2017	0:22:47	0	0	0	0	0.2	0.5
77	3/24/2017	0:32:47	0	0	0	0	0.2	0.3
78	3/24/2017	0:42:47	0	0	0	0	0.2	0.4
79	3/24/2017	0:52:47	0	0	0	0	0.2	0.3
80	3/24/2017	1:02:47	0	0	0	0	0.2	0.1
81	3/24/2017	1:12:47	0	0	0	0	0.2	0
82	3/24/2017	1:22:47	0	0	0	0	0.2	0
83	3/24/2017	1:32:47	0	0	0	0	0.2	0
84	3/24/2017	1:42:47	0	0	0	0	0.2	0
85	3/24/2017	1:52:47	0	0	0	0	0.2	0
86	3/24/2017	2:02:47	0	0	0	0	0.2	0.3
87	3/24/2017	2:12:47	0	0	0	0	0.2	0.3
88	3/24/2017	2:22:47	0	0	0	0	0.2	0.2
89	3/24/2017	2:32:47	0	0	0	0	0.2	0.2
90	3/24/2017	2:42:47	0	0	0	0	0.2	0.1
91	3/24/2017	2:52:47	0	0	0	0	0.2	0.1
92	3/24/2017	3:02:47	0	0	0	0	0.2	0.1
93	3/24/2017	3:12:47	0	0	0	0	0.2	0.1
94	3/24/2017	3:22:47	0	0	0	0	0.2	0.2
95	3/24/2017	3:32:47	0	0	0	0	0.2	0.3
96	3/24/2017	3:42:47	0	0	0	0	0.2	0.3
97	3/24/2017	3:52:47	0	0	0	0	0.2	0.1
98	3/24/2017	4:02:47	0	0	0	0	0.2	0.3
99	3/24/2017	4:12:47	0	0	0	0	0.3	0.7
100	3/24/2017	4:22:47	0	0	0	0	0.3	0.7
101	3/24/2017	4:32:47	0	0	0	0	0.3	0.4
102	3/24/2017	4:42:47	0	0	0	0	0.3	0.5
103	3/24/2017	4:52:47	0	0	0	0	0.3	0.8
104	3/24/2017	5:02:47	0	0	0	0	0.3	0.9
105	3/24/2017	5:12:47	0	0	0	0	0.3	0.6
106	3/24/2017	5:22:47	0	0	0	0	0.3	0.2
107	3/24/2017	5:32:47	0	0	0	0	0.3	0.1
108	3/24/2017	5:42:47	0	0	0	0	0.3	0.1
109	3/24/2017	5:52:47	0	0	0	0	0.3	0.1
110	3/24/2017	6:02:47	0	0	0	0	0.3	0.3
111	3/24/2017	6:12:47	0	0	0	0	0.3	0.4
112	3/24/2017	6:22:47	0	0	0	0	0.3	0.2

113	3/24/2017	6:32:47	0	0	0	0	0.3	0.7
114	3/24/2017	6:42:47	0	0	0	0	0.4	0.9
115	3/24/2017	6:52:47	0	0	0	0	0.4	0.3
116	3/24/2017	7:02:47	0	0	0	0	0.4	0.5
117	3/24/2017	7:12:47	0	0	0	0	0.4	1.2
118	3/24/2017	7:22:47	0	0	0	0	0.4	1.1
119	3/24/2017	7:32:47	0	0	0	0	0.4	0.9
120	3/24/2017	7:42:47	0	0	0	0	0.4	0.9
121	3/24/2017	7:52:47	0	0	0	0	0.4	0.7
122	3/24/2017	8:02:47	0	0	0	0	0.4	0.3
123	3/24/2017	8:12:47	0	0	0	0	0.4	0
124	3/24/2017	8:22:47	0	0	0	0	0.5	0.3
125	3/24/2017	8:32:47	0	0	0	0	0.5	0.7
126	3/24/2017	8:42:47	0	0	0	0	0.5	0.7
127	3/24/2017	8:52:47	0	0	0	0	0.5	0.6
128	3/24/2017	9:02:47	0	0	0	0	0.5	0.9
129	3/24/2017	9:12:47	0	0	0	0	0.5	0.7
130	3/24/2017	9:22:47	0	0	0	0	0.5	0.2
131	3/24/2017	9:32:47	0	0	0	0	0.5	0.2
132	3/24/2017	9:42:47	0	0	0	0	0.5	0.6
133	3/24/2017	9:52:47	0	0	0	0	0.5	0.5
134	3/24/2017	10:02:47	0	0	0	0	0.5	0.1
135	3/24/2017	10:12:47	0	0	0	0	0.5	0.1
136	3/24/2017	10:22:47	0	0	0	0	0.6	1.3
137	3/24/2017	10:32:47	0	0	0	0	0.6	1.4
138	3/24/2017	10:42:47	0	0	0	0	0.6	0.1
139	3/24/2017	10:52:47	0	0	0	0	0.6	0.1
140	3/24/2017	11:02:47	0	0	0	0	0.6	0.1
141	3/24/2017	11:12:47	0	0	0	0	0.6	0.1
142	3/24/2017	11:22:47	0	0	0	0	0.6	1.4
143	3/24/2017	11:32:47	0	0	0	0	0.6	1.5
144	3/24/2017	11:42:47	0	0	0	0	0.6	0.4

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17/03/24 11:42

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Summary

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Unit Name MultiRAE(PGM-6228)  
Unit SN MBB3Z064Q8  
Unit Firmware Ver V1.31  
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Running Mode Hygiene Mode  
Datalog Mode Auto  
Diagnostic Mode No  
Stop Reason Pause in Communic Mode  
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Site ID 194  
User ID 0  
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Begin 3/24/2017 11:42:47  
End 3/24/2017 13:58:23  
Sample Period(s) 600  
Number of Records 13  
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Sensor LEL(%LEL) OXY(%) H2S(ppm) CO(ppm) VOC(ppm)

Sensor	SN	SC0311128	SC0342108	SC03AR006	SC0306033	SC03A40150Q7																
Measure	Type	Min	Avg	Max	Real	Min	Avg	Max	Real	Min	Avg	Max	Real	Min	Avg	Max	Real	Min	Avg	Max	Real	
Span			50	18	1	50	10															
Span		2	N/A	N/A	N/A	N/A	1000															
Low	Alarm		10	19.5	10	35	50															
High	Alarm		20	23.5	20	200	100															
Over	Alarm		100	30	100	500	5000															
STEL	Alarm	N/A	N/A		15	100	25															
TWA	Alarm	N/A	N/A		10	35	10															
Measurem Gas(CF)		Methane(1	N/A	N/A	N/A	Isobutylene(1.00)																
Calibration Time		3/2/2017	10:33	3/2/2017	10:33	3/2/2017	10:38	3/2/2017	10:33	3/2/2017	10:35											
Peak			0	20.9	0	0	0.9															
Min			0	20.9	0	0	0															
Average			0	20.9	0	0	0.2															

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Datalog

Index	Date/Time	LEL(%LEL) (Min)	LEL(%LEL) (Avg)	LEL(%LEL) (Max)	LEL(%LEL) (Real)	OXY(%) (Min)	OXY(%) (Avg)	OXY(%) (Max)	OXY(%) (Real)	H2S(ppm) (Min)	H2S(ppm) (Avg)	H2S(ppm) (Max)	H2S(ppm) (Real)	CO(ppm) (Min)	CO(ppm) (Avg)	CO(ppm) (Max)	CO(ppm) (Real)	VOC(ppm) (Min)	VOC(ppm) (Avg)	VOC(ppm) (Max)	VOC(ppm) (Real)	
1	3/24/2017 11:52:47	0	0	0	0	20.9	20.9	20.9	20.9	0	0	0	0	0	0	0	0	0	0	0.4	3.2	0.2
2	3/24/2017 12:02:47	0	0	0	0	20.9	20.9	20.9	20.9	0	0	0	0	0	0	0	0	0	0	0	0	0.2
3	3/24/2017 12:12:47	0	0	0	0	20.9	20.9	20.9	20.9	0	0	0	0	0	0	0	0	0	0	0.1	1.1	0.4
4	3/24/2017 12:22:47	0	0	0	0	20.9	20.9	20.9	20.9	0	0	0	0	0	0	0	0	0	0	0.1	1.4	0.1
5	3/24/2017 12:32:47	0	0	0	0	20.9	20.9	20.9	20.9	0	0	0	0	0	0	0	0	0	0	0.2	1.7	0
6	3/24/2017 12:42:47	0	0	0	0	20.9	20.9	20.9	20.9	0	0	0	0	0	0	0	0	0	0	0.3	7.4	0
7	3/24/2017 12:52:47	0	0	0	0	20.9	20.9	20.9	20.9	0	0	0	0	0	0	0	0	0	0	0.2	1.3	0.1
8	3/24/2017 13:02:47	0	0	0	0	20.9	20.9	20.9	20.9	0	0	0	0	0	0	0	0	0	0	0.1	0.8	0.3
9	3/24/2017 13:12:47	0	0	0	0	20.9	20.9	20.9	20.9	0	0	0	0	0	0	0	0	0	0	0.3	1.3	0.6
10	3/24/2017 13:22:47	0	0	0	0	20.9	20.9	20.9	20.9	0	0	0	0	0	0	0	0	0	0	0.5	1.6	0.9
11	3/24/2017 13:32:47	0	0	0	0	20.9	20.9	20.9	20.9	0	0	0	0	0	0	0	0	0	0	0.3	1.6	0.1
12	3/24/2017 13:42:47	0	0	0	0	20.9	20.9	20.9	20.9	0	0	0	0	0	0	0	0	0	0	0.1	1.1	0.1
13	3/24/2017 13:52:47	0	0	0	0	20.9	20.9	20.9	20.9	0	0	0	0	0	0	0	0	0	0	0.1	0.5	0.1
Peak			0	0	0	20.9	20.9	20.9	20.9	0	0	0	0	0	0	0	0	0	0	0.5	7.4	0.9
Min			0	0	0	20.9	20.9	20.9	20.9	0	0	0	0	0	0	0	0	0	0	0	0.2	0
Average			0	0	0	20.9	20.9	20.9	20.9	0	0	0	0	0	0	0	0	0	0	0.2	1.8	0.2

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TWA/STEL

Index	Date/Time	H2S(ppm) (TWA)	H2S(ppm) (STEL)	CO(ppm) (TWA)	CO(ppm) (STEL)	VOC(ppm) (TWA)	VOC(ppm) (STEL)
1	3/24/2017 11:52:47	0	---	0	---	0	---
2	3/24/2017 12:02:47	0	0	0	0	0	0.2
3	3/24/2017 12:12:47	0	0	0	0	0	0.3
4	3/24/2017 12:22:47	0	0	0	0	0	0.3
5	3/24/2017 12:32:47	0	0	0	0	0	0.1
6	3/24/2017 12:42:47	0	0	0	0	0	0
7	3/24/2017 12:52:47	0	0	0	0	0	0.1
8	3/24/2017 13:02:47	0	0	0	0	0	0.3
9	3/24/2017 13:12:47	0	0	0	0	0	0.6
10	3/24/2017 13:22:47	0	0	0	0	0.1	1
11	3/24/2017 13:32:47	0	0	0	0	0.1	0.7
12	3/24/2017 13:42:47	0	0	0	0	0.1	0.1
13	3/24/2017 13:52:47	0	0	0	0	0.1	0.1

17/03/24 15:07

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Summary

Unit	Name	MultiRAE(PGM-6228)	
Unit	SN	MBB3Z064Q8	
Unit	Firmware Ver	V1.31	

Running Mode	Hygiene Mode
Datalog Mode	Auto
Diagnostic Mode	No
Stop Reason	Schedule Stop

Site ID	194
User ID	0

Begin	3/24/2017	15:07:37
End	3/25/2017	15:07:36
Sample Period(s)	600	
Number of Records	144	

Sensor	SN	LEL(%LEL)	OXY(%)	H2S(ppm)	CO(ppm)	VOC(ppm)																
		Min	Avg	Max	Real	Min	Avg	Max	Real	Min	Avg	Max	Real	Min	Avg	Max	Real	Min	Avg	Max	Real	
Sensor	SC03111289	50	18	1	50	10																
SN	SC0342108	N/A	N/A	N/A	N/A	1000																
Measure Type		10	19.5	10	35	50																
Span		20	23.5	20	200	100																
Low Alarm		100	30	100	500	5000																
High Alarm		N/A	N/A	15	100	25																
Over Alarm		N/A	N/A	10	35	10																
STEL Alarm		Methane(1.0)		N/A	N/A	Isobutylene(1.00)																
TWA Alarm		3/24/2017	15:03	3/24/2017	15:03	3/24/2017	15:07	3/24/2017	15:03	3/24/2017	15:05											
Measurem Gas(CF)		0	20.9	0	0	1.7																
Calibration Time		0	20.9	0	0	0																
Peak		0	20.9	0	0	0.3																
Min																						
Average																						

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Datalog

Index	Date/Time	LEL(%LEL)	LEL(%LEL)	LEL(%LEL)	LEL(%LEL)	OXY(%)	OXY(%)	OXY(%)	OXY(%)	H2S(ppm)	H2S(ppm)	H2S(ppm)	H2S(ppm)	CO(ppm)	CO(ppm)	CO(ppm)	CO(ppm)	VOC(ppm)	VOC(ppm)	VOC(ppm)	VOC(ppm)	
		(Min)	(Avg)	(Max)	(Real)	(Min)	(Avg)	(Max)	(Real)	(Min)	(Avg)	(Max)	(Real)	(Min)	(Avg)	(Max)	(Real)	(Min)	(Avg)	(Max)	(Real)	
1	3/24/2017 15:17:37	0	0	0	0	0	17.9	20.8	20.9	20.9	0	0	0.4	0	0	0	0	0	---	---	---	---
2	3/24/2017 15:27:37	0	0	0	0	0	20.9	20.9	20.9	20.9	0	0	0	0	0	0	0	0	0	0.1	0.4	0.1
3	3/24/2017 15:37:37	0	0	0	0	0	20.9	20.9	20.9	20.9	0	0	0	0	0	0	0	0	0	0.1	0.3	0.1
4	3/24/2017 15:47:37	0	0	0	0	0	20.9	20.9	20.9	20.9	0	0	0	0	0	0	0	0	0	0.1	0.5	0
5	3/24/2017 15:57:37	0	0	0	0	0	20.9	20.9	20.9	20.9	0	0	0	0	0	0	0	0	0	0.1	0.6	0.1
6	3/24/2017 16:07:37	0	0	0	0	0	20.9	20.9	20.9	20.9	0	0	0	0	0	0	0	0	0	0.1	0.6	0
7	3/24/2017 16:17:37	0	0	0	0	0	20.9	20.9	20.9	20.9	0	0	0	0	0	0	0	0	0	0.3	1.6	0.2
8	3/24/2017 16:27:37	0	0	0	0	0	20.9	20.9	20.9	20.9	0	0	0	0	0	0	0	0	0	0.1	0.2	0
9	3/24/2017 16:37:37	0	0	0	0	0	20.9	20.9	20.9	20.9	0	0	0	0	0	0	0	0	0	0.3	1.3	0.4
10	3/24/2017 16:47:37	0	0	0	0	0	20.9	20.9	20.9	20.9	0	0	0	0	0	0	0	0	0	0.3	1.3	0.1
11	3/24/2017 16:57:37	0	0	0	0	0	20.9	20.9	20.9	20.9	0	0	0	0	0	0	0	0	0	0.2	0.8	0
12	3/24/2017 17:07:37	0	0	0	0	0	20.9	20.9	20.9	20.9	0	0	0	0	0	0	0	0	0	0.3	1.8	0.4
13	3/24/2017 17:17:37	0	0	0	0	0	20.9	20.9	20.9	20.9	0	0	0	0	0	0	0	0	0	0.3	1.5	1
14	3/24/2017 17:27:37	0	0	0	0	0	20.9	20.9	20.9	20.9	0	0	0	0	0	0	0	0	0	0.4	1.7	1.7
15	3/24/2017 17:37:37	0	0	0	0	0	20.9	20.9	20.9	20.9	0	0	0	0	0	0	0	0	0.1	0.5	2.6	0.1

16	3/24/2017	17:47:37	0	0	0	0	20.9	20.9	20.9	20.9	0	0	0	0	0	0	0	0	0.1	0.4	0.3
17	3/24/2017	17:57:37	0	0	0	0	20.9	20.9	20.9	20.9	0	0	0	0	0	0	0	0	0.4	2.7	1.2
18	3/24/2017	18:07:37	0	0	0	0	20.9	20.9	20.9	20.9	0	0	0	0	0	0	0	0	0.5	2.1	0.9
19	3/24/2017	18:17:37	0	0	0	0	20.9	20.9	20.9	20.9	0	0	0	0	0	0	0	0	0.1	0.9	0
20	3/24/2017	18:27:37	0	0	0	0	20.9	20.9	20.9	20.9	0	0	0	0	0	0	0	0	0.1	0.3	0.2
21	3/24/2017	18:37:37	0	0	0	0	20.9	20.9	20.9	20.9	0	0	0	0	0	0	0	0	0.1	0.4	0.1
22	3/24/2017	18:47:37	0	0	0	0	20.9	20.9	20.9	20.9	0	0	0	0	0	0	0	0	0.2	1.3	1.3
23	3/24/2017	18:57:37	0	0	0	0	20.9	20.9	20.9	20.9	0	0	0	0	0	0	0	0	0.5	1.7	0
24	3/24/2017	19:07:37	0	0	0	0	20.9	20.9	20.9	20.9	0	0	0	0	0	0	0	0	0.4	0.8	0.3
25	3/24/2017	19:17:37	0	0	0	0	20.9	20.9	20.9	20.9	0	0	0	0	0	0	0	0	0.2	0.8	0
26	3/24/2017	19:27:37	0	0	0	0	20.9	20.9	20.9	20.9	0	0	0	0	0	0	0	0	0.3	1	0.8
27	3/24/2017	19:37:37	0	0	0	0	20.9	20.9	20.9	20.9	0	0	0	0	0	0	0	0.1	0.6	1	0.4
28	3/24/2017	19:47:37	0	0	0	0	20.9	20.9	20.9	20.9	0	0	0	0	0	0	0	0.1	0.7	2	0.1
29	3/24/2017	19:57:37	0	0	0	0	20.9	20.9	20.9	20.9	0	0	0	0	0	0	0	0	0.1	0.2	0
30	3/24/2017	20:07:37	0	0	0	0	20.9	20.9	20.9	20.9	0	0	0	0	0	0	0	0	0.1	0.2	0
31	3/24/2017	20:17:37	0	0	0	0	20.9	20.9	20.9	20.9	0	0	0	0	0	0	0	0	0.1	1.1	0.9
32	3/24/2017	20:27:37	0	0	0	0	20.9	20.9	20.9	20.9	0	0	0	0	0	0	0	0.1	0.4	1	0.4
33	3/24/2017	20:37:37	0	0	0	0	20.9	20.9	20.9	20.9	0	0	0	0	0	0	0	0	0.1	0.4	0
34	3/24/2017	20:47:37	0	0	0	0	20.9	20.9	20.9	20.9	0	0	0	0	0	0	0	0	0.1	0.4	0.4
35	3/24/2017	20:57:37	0	0	0	0	20.9	20.9	20.9	20.9	0	0	0	0	0	0	0	0	0.1	0.5	0
36	3/24/2017	21:07:37	0	0	0	0	20.9	20.9	20.9	20.9	0	0	0	0	0	0	0	0	0	0.1	0
37	3/24/2017	21:17:37	0	0	0	0	20.9	20.9	20.9	20.9	0	0	0	0	0	0	0	0	0	0.1	0
38	3/24/2017	21:27:37	0	0	0	0	20.9	20.9	20.9	20.9	0	0	0	0	0	0	0	0	0.1	0.2	0.1
39	3/24/2017	21:37:37	0	0	0	0	20.9	20.9	20.9	20.9	0	0	0	0	0	0	0	0	0.3	0.6	0.3
40	3/24/2017	21:47:37	0	0	0	0	20.9	20.9	20.9	20.9	0	0	0	0	0	0	0	0.1	0.9	3.8	1
41	3/24/2017	21:57:37	0	0	0	0	20.9	20.9	20.9	20.9	0	0	0	0	0	0	0	0	0.2	1.5	0
42	3/24/2017	22:07:37	0	0	0	0	20.9	20.9	20.9	20.9	0	0	0	0	0	0	0	0	0	0.2	0.1
43	3/24/2017	22:17:37	0	0	0	0	20.9	20.9	20.9	20.9	0	0	0	0	0	0	0	0	0.1	0.2	0
44	3/24/2017	22:27:37	0	0	0	0	20.9	20.9	20.9	20.9	0	0	0	0	0	0	0	0	0.1	0.3	0.3
45	3/24/2017	22:37:37	0	0	0	0	20.9	20.9	20.9	20.9	0	0	0	0	0	0	0	0	0.2	0.5	0
46	3/24/2017	22:47:37	0	0	0	0	20.9	20.9	20.9	20.9	0	0	0	0	0	0	0	0	0.1	0.9	0.1
47	3/24/2017	22:57:37	0	0	0	0	20.9	20.9	20.9	20.9	0	0	0	0	0	0	0	0.1	0.3	1.2	0.1
48	3/24/2017	23:07:37	0	0	0	0	20.9	20.9	20.9	20.9	0	0	0	0	0	0	0	0	0.2	0.9	0.1
49	3/24/2017	23:17:37	0	0	0	0	20.9	20.9	20.9	20.9	0	0	0	0	0	0	0	0	0.4	1.9	0.2
50	3/24/2017	23:27:37	0	0	0	0	20.9	20.9	20.9	20.9	0	0	0	0	0	0	0	0.2	0.9	3.2	0.2
51	3/24/2017	23:37:37	0	0	0	0	20.9	20.9	20.9	20.9	0	0	0	0	0	0	0	0	0.4	1.9	0.2
52	3/24/2017	23:47:37	0	0	0	0	20.9	20.9	20.9	20.9	0	0	0	0	0	0	0	0.1	1.5	10	0.2
53	3/24/2017	23:57:37	0	0	0	0	20.9	20.9	20.9	20.9	0	0	0	0	0	0	0	0.2	1.2	2.9	0.5
54	3/25/2017	0:07:37	0	0	0	0	20.9	20.9	20.9	20.9	0	0	0	0	0	0	0	0.3	1.2	2.7	0.5
55	3/25/2017	0:17:37	0	0	0	0	20.9	20.9	20.9	20.9	0	0	0	0	0	0	0	0.2	0.7	2.7	0.9
56	3/25/2017	0:27:37	0	0	0	0	20.9	20.9	20.9	20.9	0	0	0	0	0	0	0	0.2	0.5	1.1	0.6
57	3/25/2017	0:37:37	0	0	0	0	20.9	20.9	20.9	20.9	0	0	0	0	0	0	0	0.1	0.3	1.6	0.8
58	3/25/2017	0:47:37	0	0	0	0	20.9	20.9	20.9	20.9	0	0	0	0	0	0	0	0.2	0.5	1.2	0.2
59	3/25/2017	0:57:37	0	0	0	0	20.9	20.9	20.9	20.9	0	0	0	0	0	0	0	0	0.3	2.2	1.3
60	3/25/2017	1:07:37	0	0	0	0	20.9	20.9	20.9	20.9	0	0	0	0	0	0	0	0	0.4	1.3	0.1
61	3/25/2017	1:17:37	0	0	0	0	20.9	20.9	20.9	20.9	0	0	0	0	0	0	0	0	0.1	0.6	0.1
62	3/25/2017	1:27:37	0	0	0	0	20.9	20.9	20.9	20.9	0	0	0	0	0	0	0	0	0.1	0.4	0.3
63	3/25/2017	1:37:37	0	0	0	0	20.9	20.9	20.9	20.9	0	0	0	0	0	0	0	0	0.5	2	0
64	3/25/2017	1:47:37	0	0	0	0	20.9	20.9	20.9	20.9	0	0	0	0	0	0	0	0	0.3	1.4	0
65	3/25/2017	1:57:37	0	0	0	0	20.9	20.9	20.9	20.9	0	0	0	0	0	0	0	0	0.1	0.3	0
66	3/25/2017	2:07:37	0	0	0	0	20.9	20.9	20.9	20.9	0	0	0	0	0	0	0	0	0.1	0.5	0
67	3/25/2017	2:17:37	0	0	0	0	20.9	20.9	20.9	20.9	0	0	0	0	0	0	0	0	0.1	0.2	0.1
68	3/25/2017	2:27:37	0	0	0	0	20.9	20.9	20.9	20.9	0	0	0	0	0	0	0	0.1	0.3	0.6	0.5
69	3/25/2017	2:37:37	0	0	0	0	20.9	20.9	20.9	20.9	0	0	0	0	0	0	0	0.1	0.3	0.7	0.2
70	3/25/2017	2:47:37	0	0	0	0	20.9	20.9	20.9	20.9	0	0	0	0	0	0	0	0	0.2	0.9	0
71	3/25/2017	2:57:37	0	0	0	0	20.9	20.9	20.9	20.9	0	0	0	0	0	0	0	0	0.1	0.3	0
72	3/25/2017	3:07:37	0	0	0	0	20.9	20.9	20.9	20.9	0	0	0	0	0	0	0	0	0.1	0.6	0.1

73	3/25/2017	3:17:37	0	0	0	0	20.9	20.9	20.9	20.9	0	0	0	0	0	0	0	0	0.1	0.3	0.1
74	3/25/2017	3:27:37	0	0	0	0	20.9	20.9	20.9	20.9	0	0	0	0	0	0	0	0	0.4	2.1	0.9
75	3/25/2017	3:37:37	0	0	0	0	20.9	20.9	20.9	20.9	0	0	0	0	0	0	0	0.1	0.6	2.2	0.4
76	3/25/2017	3:47:37	0	0	0	0	20.9	20.9	20.9	20.9	0	0	0	0	0	0	0	0	0.1	0.9	0
77	3/25/2017	3:57:37	0	0	0	0	20.9	20.9	20.9	20.9	0	0	0	0	0	0	0	0	0.1	0.8	0.2
78	3/25/2017	4:07:37	0	0	0	0	20.9	20.9	20.9	20.9	0	0	0	0	0	0	0	0	0.2	0.7	0.1
79	3/25/2017	4:17:37	0	0	0	0	20.9	20.9	20.9	20.9	0	0	0	0	0	0	0	0	0.2	0.7	0
80	3/25/2017	4:27:37	0	0	0	0	20.9	20.9	20.9	20.9	0	0	0	0	0	0	0	0	0.1	0.3	0.1
81	3/25/2017	4:37:37	0	0	0	0	20.9	20.9	20.9	20.9	0	0	0	0	0	0	0	0	0.3	1.8	0.1
82	3/25/2017	4:47:37	0	0	0	0	20.9	20.9	20.9	20.9	0	0	0	0	0	0	0	0	0.2	0.7	0.6
83	3/25/2017	4:57:37	0	0	0	0	20.9	20.9	20.9	20.9	0	0	0	0	0	0	0	0	0.5	2.8	0.1
84	3/25/2017	5:07:37	0	0	0	0	20.9	20.9	20.9	20.9	0	0	0	0	0	0	0	0	0.2	0.9	0.1
85	3/25/2017	5:17:37	0	0	0	0	20.9	20.9	20.9	20.9	0	0	0	0	0	0	0	0	0.2	1.7	0.4
86	3/25/2017	5:27:37	0	0	0	0	20.9	20.9	20.9	20.9	0	0	0	0	0	0	0	0.1	0.4	2	1.4
87	3/25/2017	5:37:37	0	0	0	0	20.9	20.9	20.9	20.9	0	0	0	0	0	0	0	0	0.4	2.1	0
88	3/25/2017	5:47:37	0	0	0	0	20.9	20.9	20.9	20.9	0	0	0	0	0	0	0	0	0.2	2.2	0.3
89	3/25/2017	5:57:37	0	0	0	0	20.9	20.9	20.9	20.9	0	0	0	0	0	0	0	0.1	0.6	1.4	0.2
90	3/25/2017	6:07:37	0	0	0	0	20.9	20.9	20.9	20.9	0	0	0	0	0	0	0	0	0.2	0.8	0
91	3/25/2017	6:17:37	0	0	0	0	20.9	20.9	20.9	20.9	0	0	0	0	0	0	0	0	0.6	2.2	0.9
92	3/25/2017	6:27:37	0	0	0	0	20.9	20.9	20.9	20.9	0	0	0	0	0	0	0	0	0.3	1.1	0
93	3/25/2017	6:37:37	0	0	0	0	20.9	20.9	20.9	20.9	0	0	0	0	0	0	0	0	0.2	0.7	0.1
94	3/25/2017	6:47:37	0	0	0	0	20.9	20.9	20.9	20.9	0	0	0	0	0	0	0	0	0.2	0.9	0
95	3/25/2017	6:57:37	0	0	0	0	20.9	20.9	20.9	20.9	0	0	0	0	0	0	0	0	0.2	0.9	0.7
96	3/25/2017	7:07:37	0	0	0	0	20.9	20.9	20.9	20.9	0	0	0	0	0	0	0	0	0.2	0.7	0.3
97	3/25/2017	7:17:37	0	0	0	0	20.9	20.9	20.9	20.9	0	0	0	0	0	0	0	0	0.2	0.7	0.3
98	3/25/2017	7:27:37	0	0	0	0	20.9	20.9	20.9	20.9	0	0	0	0	0	0	0	0	0.8	1.7	1.6
99	3/25/2017	7:37:37	0	0	0	0	20.9	20.9	20.9	20.9	0	0	0	0	0	0	0	0	0.3	1.6	0.1
100	3/25/2017	7:47:37	0	0	0	0	20.9	20.9	20.9	20.9	0	0	0	0	0	0	0	0	0.2	0.8	0.4
101	3/25/2017	7:57:37	0	0	0	0	20.9	20.9	20.9	20.9	0	0	0	0	0	0	0	0	0.3	0.7	0.3
102	3/25/2017	8:07:37	0	0	0	0	20.9	20.9	20.9	20.9	0	0	0	0	0	0	0	0.1	0.8	1.8	1.3
103	3/25/2017	8:17:37	0	0	0	0	20.9	20.9	20.9	20.9	0	0	0	0	0	0	0	0	0.7	1.9	0.8
104	3/25/2017	8:27:37	0	0	0	0	20.9	20.9	20.9	20.9	0	0	0	0	0	0	0	0	0.4	1.1	0.3
105	3/25/2017	8:37:37	0	0	0	0	20.9	20.9	20.9	20.9	0	0	0	0	0	0	0	0.1	0.4	1.6	0.1
106	3/25/2017	8:47:37	0	0	0	0	20.9	20.9	20.9	20.9	0	0	0	0	0	0	0	0	0.2	0.6	0.5
107	3/25/2017	8:57:37	0	0	0	0	20.9	20.9	20.9	20.9	0	0	0	0	0	0	0	0.2	0.4	0.7	0.5
108	3/25/2017	9:07:37	0	0	0	0	20.9	20.9	20.9	20.9	0	0	0	0	0	0	0	0	0.6	1.5	0
109	3/25/2017	9:17:37	0	0	0	0	20.9	20.9	20.9	20.9	0	0	0	0	0	0	0	0	0.3	0.8	0
110	3/25/2017	9:27:37	0	0	0	0	20.9	20.9	20.9	20.9	0	0	0	0	0	0	0	0	0.2	1.5	0.1
111	3/25/2017	9:37:37	0	0	0	0	20.9	20.9	20.9	20.9	0	0	0	0	0	0	0	0	0.6	4	0
112	3/25/2017	9:47:37	0	0	0	0	20.9	20.9	20.9	20.9	0	0	0	0	0	0	0	0	0.1	0.3	0
113	3/25/2017	9:57:37	0	0	0	0	20.9	20.9	20.9	20.9	0	0	0	0	0	0	0	0	0.5	2.8	0.1
114	3/25/2017	10:07:37	0	0	0	0	20.9	20.9	20.9	20.9	0	0	0	0	0	0	0	0	0.3	2.7	0.3
115	3/25/2017	10:17:37	0	0	0	0	20.9	20.9	20.9	20.9	0	0	0	0	0	0	0	0	0.8	3.9	1.5
116	3/25/2017	10:27:37	0	0	0	0	20.9	20.9	20.9	20.9	0	0	0	0	0	0	0	0	0.3	2.4	0.8
117	3/25/2017	10:37:37	0	0	0	0	20.9	20.9	20.9	20.9	0	0	0	0	0	0	0	0	0.3	2	0.1
118	3/25/2017	10:47:37	0	0	0	0	20.9	20.9	20.9	20.9	0	0	0	0	0	0	0	0	0.3	1.7	1.1
119	3/25/2017	10:57:37	0	0	0	0	20.9	20.9	20.9	20.9	0	0	0	0	0	0	0	0.1	0.5	2.2	0.2
120	3/25/2017	11:07:37	0	0	0	0	20.9	20.9	20.9	20.9	0	0	0	0	0	0	0	0	0.1	1.2	0
121	3/25/2017	11:17:37	0	0	0	0	20.9	20.9	20.9	20.9	0	0	0	0	0	0	0	0	0	0.2	0
122	3/25/2017	11:27:37	0	0	0	0	20.9	20.9	20.9	20.9	0	0	0	0	0	0	0	0	0	0.1	0.1
123	3/25/2017	11:37:37	0	0	0	0	20.9	20.9	20.9	20.9	0	0	0	0	0	0	0	0	0.1	0.2	0
124	3/25/2017	11:47:37	0	0	0	0	20.9	20.9	20.9	20.9	0	0	0	0	0	0	0	0	0.2	1.1	0.4
125	3/25/2017	11:57:37	0	0	0	0	20.9	20.9	20.9	20.9	0	0	0	0	0	0	0	0	0.1	1.4	0.1
126	3/25/2017	12:07:37	0	0	0	0	20.9	20.9	20.9	20.9	0	0	0	0	0	0	0	0	0.1	0.5	0.1
127	3/25/2017	12:17:37	0	0	0	0	20.9	20.9	20.9	20.9	0	0	0	0	0	0	0	0	0	0.1	0
128	3/25/2017	12:27:37	0	0	0	0	20.9	20.9	20.9	20.9	0	0	0	0	0	0	0	0	0.2	0.6	0.2
129	3/25/2017	12:37:37	0	0	0	0	20.9	20.9	20.9	20.9	0	0	0	0	0	0	0	0	0.1	0.4	0



130	3/25/2017	12:47:37	0	0	0	0	20.9	20.9	20.9	20.9	0	0	0	0	0	0	0	0	0	0.1	0.3	0.3	
131	3/25/2017	12:57:37	0	0	0	0	20.9	20.9	20.9	20.9	0	0	0	0	0	0	0	0	0	0.1	0.3	0.1	
132	3/25/2017	13:07:37	0	0	0	0	20.9	20.9	20.9	20.9	0	0	0	0	0	0	0	0	0	0.2	1	0.1	
133	3/25/2017	13:17:37	0	0	0	0	20.9	20.9	20.9	20.9	0	0	0	0	0	0	0	0	0	0.1	0.3	0.1	
134	3/25/2017	13:27:37	0	0	0	0	20.9	20.9	20.9	20.9	0	0	0	0	0	0	0	0	0	0.2	2.1	0.1	
135	3/25/2017	13:37:37	0	0	0	0	20.9	20.9	20.9	20.9	0	0	0	0	0	0	0	0	0	0.1	0.2	0.1	
136	3/25/2017	13:47:37	0	0	0	0	20.9	20.9	20.9	20.9	0	0	0	0	0	0	0	0	0	0.1	0.3	0.1	
137	3/25/2017	13:57:37	0	0	0	0	20.9	20.9	20.9	20.9	0	0	0	0	0	0	0	0	0	0.1	0.8	0.1	
138	3/25/2017	14:07:37	0	0	0	0	20.9	20.9	20.9	20.9	0	0	0	0	0	0	0	0	0	0.4	2	0.4	
139	3/25/2017	14:17:37	0	0	0	0	20.9	20.9	20.9	20.9	0	0	0	0	0	0	0	0	0	0.1	0.5	2.1	0.2
140	3/25/2017	14:27:37	0	0	0	0	20.9	20.9	20.9	20.9	0	0	0	0	0	0	0	0	0	0.1	0.2	0.1	
141	3/25/2017	14:37:37	0	0	0	0	20.9	20.9	20.9	20.9	0	0	0	0	0	0	0	0	0	0.1	0.6	0.1	
142	3/25/2017	14:47:37	0	0	0	0	20.9	20.9	20.9	20.9	0	0	0	0	0	0	0	0	0	0.1	0.4	0.1	
143	3/25/2017	14:57:37	0	0	0	0	20.9	20.9	20.9	20.9	0	0	0	0	0	0	0	0	0	0.1	0.2	0.1	
144	3/25/2017	15:07:37	0	0	0	0	20.9	20.9	20.9	20.9	0	0	0	0	0	0	0	0	0	0.1	0.2	0.1	
Peak			0	0	0	0	20.9	20.9	20.9	20.9	0	0	0.4	0	0	0	0	0	0	0.3	1.5	10	1.7
Min			0	0	0	0	17.9	20.8	20.9	20.9	0	0	0	0	0	0	0	0	0	0	0.1	0	0
Average			0	0	0	0	20.9	20.9	20.9	20.9	0	0	0	0	0	0	0	0	0	0	0.3	1.2	0.3

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TWA/STEL

Index	Date/Time	H2S(ppm)		CO(ppm)		VOC(ppm)		
		(TWA)	(STEL)	(TWA)	(STEL)	(TWA)	(STEL)	
1	3/24/2017	15:17:37	0 ---	0 ---	0 ---	0 ---	0 ---	
2	3/24/2017	15:27:37	0	0	0	0	0 ---	
3	3/24/2017	15:37:37	0	0	0	0	0.1	
4	3/24/2017	15:47:37	0	0	0	0	0.1	
5	3/24/2017	15:57:37	0	0	0	0	0.1	
6	3/24/2017	16:07:37	0	0	0	0	0.1	
7	3/24/2017	16:17:37	0	0	0	0	0.1	
8	3/24/2017	16:27:37	0	0	0	0	0.1	
9	3/24/2017	16:37:37	0	0	0	0	0.3	
10	3/24/2017	16:47:37	0	0	0	0	0.3	
11	3/24/2017	16:57:37	0	0	0	0	0.1	
12	3/24/2017	17:07:37	0	0	0	0	0.3	
13	3/24/2017	17:17:37	0	0	0	0	0.1	0.9
14	3/24/2017	17:27:37	0	0	0	0	0.1	1.8
15	3/24/2017	17:37:37	0	0	0	0	0.1	1.2
16	3/24/2017	17:47:37	0	0	0	0	0.1	0.3
17	3/24/2017	17:57:37	0	0	0	0	0.1	1
18	3/24/2017	18:07:37	0	0	0	0	0.1	1.4
19	3/24/2017	18:17:37	0	0	0	0	0.1	0.6
20	3/24/2017	18:27:37	0	0	0	0	0.1	0.1
21	3/24/2017	18:37:37	0	0	0	0	0.1	0.2
22	3/24/2017	18:47:37	0	0	0	0	0.2	0.9
23	3/24/2017	18:57:37	0	0	0	0	0.2	0.9
24	3/24/2017	19:07:37	0	0	0	0	0.2	0.2
25	3/24/2017	19:17:37	0	0	0	0	0.2	0.2
26	3/24/2017	19:27:37	0	0	0	0	0.2	0.5
27	3/24/2017	19:37:37	0	0	0	0	0.2	0.8
28	3/24/2017	19:47:37	0	0	0	0	0.2	0.3
29	3/24/2017	19:57:37	0	0	0	0	0.2	0.1
30	3/24/2017	20:07:37	0	0	0	0	0.2	0
31	3/24/2017	20:17:37	0	0	0	0	0.2	0.6
32	3/24/2017	20:27:37	0	0	0	0	0.2	0.9
33	3/24/2017	20:37:37	0	0	0	0	0.2	0.3
34	3/24/2017	20:47:37	0	0	0	0	0.2	0.3

35	3/24/2017	20:57:37	0	0	0	0	0.2	0.3
36	3/24/2017	21:07:37	0	0	0	0	0.2	0
37	3/24/2017	21:17:37	0	0	0	0	0.2	0
38	3/24/2017	21:27:37	0	0	0	0	0.2	0.1
39	3/24/2017	21:37:37	0	0	0	0	0.2	0.3
40	3/24/2017	21:47:37	0	0	0	0	0.3	0.9
41	3/24/2017	21:57:37	0	0	0	0	0.3	0.7
42	3/24/2017	22:07:37	0	0	0	0	0.3	0.1
43	3/24/2017	22:17:37	0	0	0	0	0.3	0.1
44	3/24/2017	22:27:37	0	0	0	0	0.3	0.2
45	3/24/2017	22:37:37	0	0	0	0	0.3	0.2
46	3/24/2017	22:47:37	0	0	0	0	0.3	0.1
47	3/24/2017	22:57:37	0	0	0	0	0.3	0.1
48	3/24/2017	23:07:37	0	0	0	0	0.3	0.1
49	3/24/2017	23:17:37	0	0	0	0	0.3	0.2
50	3/24/2017	23:27:37	0	0	0	0	0.3	0.3
51	3/24/2017	23:37:37	0	0	0	0	0.3	0.3
52	3/24/2017	23:47:37	0	0	0	0	0.3	0.3
53	3/24/2017	23:57:37	0	0	0	0	0.3	0.5
54	3/25/2017	0:07:37	0	0	0	0	0.3	0.7
55	3/25/2017	0:17:37	0	0	0	0	0.3	0.9
56	3/25/2017	0:27:37	0	0	0	0	0.4	1
57	3/25/2017	0:37:37	0	0	0	0	0.4	0.9
58	3/25/2017	0:47:37	0	0	0	0	0.4	0.7
59	3/25/2017	0:57:37	0	0	0	0	0.4	1
60	3/25/2017	1:07:37	0	0	0	0	0.4	0.9
61	3/25/2017	1:17:37	0	0	0	0	0.4	0.1
62	3/25/2017	1:27:37	0	0	0	0	0.4	0.3
63	3/25/2017	1:37:37	0	0	0	0	0.4	0.2
64	3/25/2017	1:47:37	0	0	0	0	0.4	0
65	3/25/2017	1:57:37	0	0	0	0	0.4	0
66	3/25/2017	2:07:37	0	0	0	0	0.4	0
67	3/25/2017	2:17:37	0	0	0	0	0.4	0.1
68	3/25/2017	2:27:37	0	0	0	0	0.4	0.4
69	3/25/2017	2:37:37	0	0	0	0	0.4	0.5
70	3/25/2017	2:47:37	0	0	0	0	0.4	0.1
71	3/25/2017	2:57:37	0	0	0	0	0.4	0
72	3/25/2017	3:07:37	0	0	0	0	0.4	0.1
73	3/25/2017	3:17:37	0	0	0	0	0.4	0.1
74	3/25/2017	3:27:37	0	0	0	0	0.4	0.7
75	3/25/2017	3:37:37	0	0	0	0	0.5	0.9
76	3/25/2017	3:47:37	0	0	0	0	0.5	0.3
77	3/25/2017	3:57:37	0	0	0	0	0.5	0.1
78	3/25/2017	4:07:37	0	0	0	0	0.5	0.2
79	3/25/2017	4:17:37	0	0	0	0	0.5	0.1
80	3/25/2017	4:27:37	0	0	0	0	0.5	0.1
81	3/25/2017	4:37:37	0	0	0	0	0.5	0.1
82	3/25/2017	4:47:37	0	0	0	0	0.5	0.5
83	3/25/2017	4:57:37	0	0	0	0	0.5	0.5
84	3/25/2017	5:07:37	0	0	0	0	0.5	0.1
85	3/25/2017	5:17:37	0	0	0	0	0.5	0.3
86	3/25/2017	5:27:37	0	0	0	0	0.5	1.2
87	3/25/2017	5:37:37	0	0	0	0	0.5	0.9
88	3/25/2017	5:47:37	0	0	0	0	0.5	0.2
89	3/25/2017	5:57:37	0	0	0	0	0.5	0.3
90	3/25/2017	6:07:37	0	0	0	0	0.5	0.1
91	3/25/2017	6:17:37	0	0	0	0	0.6	0.6

92	3/25/2017	6:27:37	0	0	0	0	0.6	0.6
93	3/25/2017	6:37:37	0	0	0	0	0.6	0.1
94	3/25/2017	6:47:37	0	0	0	0	0.6	0.1
95	3/25/2017	6:57:37	0	0	0	0	0.6	0.5
96	3/25/2017	7:07:37	0	0	0	0	0.6	0.7
97	3/25/2017	7:17:37	0	0	0	0	0.6	0.4
98	3/25/2017	7:27:37	0	0	0	0	0.6	1.3
99	3/25/2017	7:37:37	0	0	0	0	0.6	1.1
100	3/25/2017	7:47:37	0	0	0	0	0.6	0.3
101	3/25/2017	7:57:37	0	0	0	0	0.6	0.5
102	3/25/2017	8:07:37	0	0	0	0	0.7	1.1
103	3/25/2017	8:17:37	0	0	0	0	0.7	1.4
104	3/25/2017	8:27:37	0	0	0	0	0.7	0.7
105	3/25/2017	8:37:37	0	0	0	0	0.7	0.3
106	3/25/2017	8:47:37	0	0	0	0	0.7	0.4
107	3/25/2017	8:57:37	0	0	0	0	0.7	0.7
108	3/25/2017	9:07:37	0	0	0	0	0.7	0.3
109	3/25/2017	9:17:37	0	0	0	0	0.7	0
110	3/25/2017	9:27:37	0	0	0	0	0.7	0.1
111	3/25/2017	9:37:37	0	0	0	0	0.7	0.1
112	3/25/2017	9:47:37	0	0	0	0	0.7	0
113	3/25/2017	9:57:37	0	0	0	0	0.7	0.1
114	3/25/2017	10:07:37	0	0	0	0	0.7	0.3
115	3/25/2017	10:17:37	0	0	0	0	0.7	1.2
116	3/25/2017	10:27:37	0	0	0	0	0.8	1.5
117	3/25/2017	10:37:37	0	0	0	0	0.8	0.6
118	3/25/2017	10:47:37	0	0	0	0	0.8	0.8
119	3/25/2017	10:57:37	0	0	0	0	0.8	0.9
120	3/25/2017	11:07:37	0	0	0	0	0.8	0.1
121	3/25/2017	11:17:37	0	0	0	0	0.8	0
122	3/25/2017	11:27:37	0	0	0	0	0.8	0.1
123	3/25/2017	11:37:37	0	0	0	0	0.8	0.1
124	3/25/2017	11:47:37	0	0	0	0	0.8	0.3
125	3/25/2017	11:57:37	0	0	0	0	0.8	0.3
126	3/25/2017	12:07:37	0	0	0	0	0.8	0.1
127	3/25/2017	12:17:37	0	0	0	0	0.8	0.1
128	3/25/2017	12:27:37	0	0	0	0	0.8	0.1
129	3/25/2017	12:37:37	0	0	0	0	0.8	0.1
130	3/25/2017	12:47:37	0	0	0	0	0.8	0.2
131	3/25/2017	12:57:37	0	0	0	0	0.8	0.3
132	3/25/2017	13:07:37	0	0	0	0	0.8	0.1
133	3/25/2017	13:17:37	0	0	0	0	0.8	0.1
134	3/25/2017	13:27:37	0	0	0	0	0.8	0.1
135	3/25/2017	13:37:37	0	0	0	0	0.8	0.1
136	3/25/2017	13:47:37	0	0	0	0	0.8	0.1
137	3/25/2017	13:57:37	0	0	0	0	0.8	0.1
138	3/25/2017	14:07:37	0	0	0	0	0.8	0.3
139	3/25/2017	14:17:37	0	0	0	0	0.8	0.4
140	3/25/2017	14:27:37	0	0	0	0	0.8	0.2
141	3/25/2017	14:37:37	0	0	0	0	0.8	0.1
142	3/25/2017	14:47:37	0	0	0	0	0.8	0.1
143	3/25/2017	14:57:37	0	0	0	0	0.9	0.1
144	3/25/2017	15:07:37	0	0	0	0	0.9	0.1

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17/03/25 15:07  
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Summary

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Unit   Name      MultiRAE(PGM-6228)
Unit   SN        MBB3Z064Q8
Unit   Firmware Ver   V1.31
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Running Mode   Hygiene   Mode
Datalog Mode   Auto
Diagnostic Mode No
Stop     Reason  Schedule  Stop
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-----
Site   ID          194
User   ID          0
-----

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Begin   3/25/2017  15:07:36
End     3/26/2017  15:07:36
Sample  Period(s)   600
Number  of          Records    144
-----

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-----
Sensor          LEL(%LEL) OXY(%) H2S(ppm) CO(ppm) VOC(ppm)
Sensor SN      SC03111289 SC0342108 SC03AR0062 SC0306033 SC03A40150Q7
Measure Type   Min      Avg      Max      Real      Min      Avg      Max      Real      Min      Avg      Max      Real      Min      Avg      Max      Real      Min      Avg      Max      Real
Span           2 N/A    N/A     N/A     N/A     50      18      1       50      10
Low            Alarm    10      19.5    10      35      50
High           Alarm    20      23.5    20      200     100
Over           Alarm    100     30      100     500     5000
STEL           Alarm    N/A     N/A     15      100     25
TWA            Alarm    N/A     N/A     10      35      10
Measurem Gas(CF) Methane(1.0 N/A N/A N/A Isobutylene(1.00)
Calibration Time 3/24/2017 15:03 3/24/2017 15:03 3/24/2017 15:07 3/24/2017 15:03 3/24/2017 15:05
Peak           0      20.9    0      0      0.8
Min            0      20.9    0      0      0
Average        0      20.9    0      0      0.1
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Datalog

Index	Date/Time	LEL(%LEL) (Min)	LEL(%LEL) (Avg)	LEL(%LEL) (Max)	LEL(%LEL) (Real)	OXY(%) (Min)	OXY(%) (Avg)	OXY(%) (Max)	OXY(%) (Real)	H2S(ppm) (Min)	H2S(ppm) (Avg)	H2S(ppm) (Max)	H2S(ppm) (Real)	CO(ppm) (Min)	CO(ppm) (Avg)	CO(ppm) (Max)	CO(ppm) (Real)	VOC(ppm) (Min)	VOC(ppm) (Avg)	VOC(ppm) (Max)	VOC(ppm) (Real)	
1	3/25/2017 15:17:36	0	0	0	0	20.9	20.9	20.9	20.9	0	0	0	0	0	0	0	0	0	0	0.1	0.2	0.1
2	3/25/2017 15:27:36	0	0	0	0	20.9	20.9	20.9	20.9	0	0	0	0	0	0	0	0	0	0	0.1	0.3	0.1
3	3/25/2017 15:37:36	0	0	0	0	20.9	20.9	20.9	20.9	0	0	0	0	0	0	0	0	0	0	0.1	0.3	0.1
4	3/25/2017 15:47:36	0	0	0	0	20.9	20.9	20.9	20.9	0	0	0	0	0	0	0	0	0	0	0.1	0.2	0.1
5	3/25/2017 15:57:36	0	0	0	0	20.9	20.9	20.9	20.9	0	0	0	0	0	0	0	0	0	0	0.1	0.2	0.2
6	3/25/2017 16:07:36	0	0	0	0	20.9	20.9	20.9	20.9	0	0	0	0	0	0	0	0	0	0	0.1	0.3	0.1
7	3/25/2017 16:17:36	0	0	0	0	20.9	20.9	20.9	20.9	0	0	0	0	0	0	0	0	0	0	0.1	0.2	0.2
8	3/25/2017 16:27:36	0	0	0	0	20.9	20.9	20.9	20.9	0	0	0	0	0	0	0	0	0	0	0.1	0.2	0
9	3/25/2017 16:37:36	0	0	0	0	20.9	20.9	20.9	20.9	0	0	0	0	0	0	0	0	0	0	0.1	0.2	0.1
10	3/25/2017 16:47:36	0	0	0	0	20.9	20.9	20.9	20.9	0	0	0	0	0	0	0	0	0	0	0.1	0.2	0
11	3/25/2017 16:57:36	0	0	0	0	20.9	20.9	20.9	20.9	0	0	0	0	0	0	0	0	0	0	0.1	0.4	0.1
12	3/25/2017 17:07:36	0	0	0	0	20.9	20.9	20.9	20.9	0	0	0	0	0	0	0	0	0	0	0.1	0.3	0.1
13	3/25/2017 17:17:36	0	0	0	0	20.9	20.9	20.9	20.9	0	0	0	0	0	0	0	0	0	0	0.1	0.3	0.1
14	3/25/2017 17:27:36	0	0	0	0	20.9	20.9	20.9	20.9	0	0	0	0	0	0	0	0	0	0	0.1	0.3	0.1
15	3/25/2017 17:37:36	0	0	0	0	20.9	20.9	20.9	20.9	0	0	0	0	0	0	0	0	0	0	0.1	0.4	0.1
16	3/25/2017 17:47:36	0	0	0	0	20.9	20.9	20.9	20.9	0	0	0	0	0	0	0	0	0	0	0.1	0.4	0.1
17	3/25/2017 17:57:36	0	0	0	0	20.9	20.9	20.9	20.9	0	0	0	0	0	0	0	0	0	0	0.1	0.8	0.8
18	3/25/2017 18:07:36	0	0	0	0	20.9	20.9	20.9	20.9	0	0	0	0	0	0	0	0	0	0	0.1	1.1	0.1
19	3/25/2017 18:17:36	0	0	0	0	20.9	20.9	20.9	20.9	0	0	0	0	0	0	0	0	0	0	0.1	0.4	0.2

20	3/25/2017	18:27:36	0	0	0	0	20.9	20.9	20.9	20.9	0	0	0	0	0	0	0	0	0.1	0.2	0.9	0.2
21	3/25/2017	18:37:36	0	0	0	0	20.9	20.9	20.9	20.9	0	0	0	0	0	0	0	0	0.1	0.2	0.6	0.1
22	3/25/2017	18:47:36	0	0	0	0	20.9	20.9	20.9	20.9	0	0	0	0	0	0	0	0	0	0.2	0.6	0.2
23	3/25/2017	18:57:36	0	0	0	0	20.9	20.9	20.9	20.9	0	0	0	0	0	0	0	0	0.1	0.2	0.4	0.2
24	3/25/2017	19:07:36	0	0	0	0	20.9	20.9	20.9	20.9	0	0	0	0	0	0	0	0	0	0.1	0.5	0.1
25	3/25/2017	19:17:36	0	0	0	0	20.9	20.9	20.9	20.9	0	0	0	0	0	0	0	0	0	0.2	1	0.1
26	3/25/2017	19:27:36	0	0	0	0	20.9	20.9	20.9	20.9	0	0	0	0	0	0	0	0	0	0.2	0.6	0.1
27	3/25/2017	19:37:36	0	0	0	0	20.9	20.9	20.9	20.9	0	0	0	0	0	0	0	0	0	0.2	0.9	0.1
28	3/25/2017	19:47:36	0	0	0	0	20.9	20.9	20.9	20.9	0	0	0	0	0	0	0	0	0	0.1	0.8	0.1
29	3/25/2017	19:57:36	0	0	0	0	20.9	20.9	20.9	20.9	0	0	0	0	0	0	0	0	0	0.3	3.1	0.1
30	3/25/2017	20:07:36	0	0	0	0	20.9	20.9	20.9	20.9	0	0	0	0	0	0	0	0	0.1	0.7	3.4	0.8
31	3/25/2017	20:17:36	0	0	0	0	20.9	20.9	20.9	20.9	0	0	0	0	0	0	0	0	0	0.3	1.4	0.1
32	3/25/2017	20:27:36	0	0	0	0	20.9	20.9	20.9	20.9	0	0	0	0	0	0	0	0	0	0.1	0.3	0.1
33	3/25/2017	20:37:36	0	0	0	0	20.9	20.9	20.9	20.9	0	0	0	0	0	0	0	0	0	0.1	0.1	0
34	3/25/2017	20:47:36	0	0	0	0	20.9	20.9	20.9	20.9	0	0	0	0	0	0	0	0	0	0.1	0.2	0.1
35	3/25/2017	20:57:36	0	0	0	0	20.9	20.9	20.9	20.9	0	0	0	0	0	0	0	0	0	0.1	0.5	0.5
36	3/25/2017	21:07:36	0	0	0	0	20.9	20.9	20.9	20.9	0	0	0	0	0	0	0	0	0	0.2	0.6	0.1
37	3/25/2017	21:17:36	0	0	0	0	20.9	20.9	20.9	20.9	0	0	0	0	0	0	0	0	0	0.2	0.9	0.1
38	3/25/2017	21:27:36	0	0	0	0	20.9	20.9	20.9	20.9	0	0	0	0	0	0	0	0	0	0.1	0.5	0.1
39	3/25/2017	21:37:36	0	0	0	0	20.9	20.9	20.9	20.9	0	0	0	0	0	0	0	0	0	0.1	0.6	0.1
40	3/25/2017	21:47:36	0	0	0	0	20.9	20.9	20.9	20.9	0	0	0	0	0	0	0	0	0	0.1	0.1	0.1
41	3/25/2017	21:57:36	0	0	0	0	20.9	20.9	20.9	20.9	0	0	0	0	0	0	0	0	0	0.1	0.2	0
42	3/25/2017	22:07:36	0	0	0	0	20.9	20.9	20.9	20.9	0	0	0	0	0	0	0	0	0	0.1	0.8	0.1
43	3/25/2017	22:17:36	0	0	0	0	20.9	20.9	20.9	20.9	0	0	0	0	0	0	0	0	0	0.1	0.4	0.2
44	3/25/2017	22:27:36	0	0	0	0	20.9	20.9	20.9	20.9	0	0	0	0	0	0	0	0	0	0.1	0.5	0.1
45	3/25/2017	22:37:36	0	0	0	0	20.9	20.9	20.9	20.9	0	0	0	0	0	0	0	0	0	0.2	0.9	0.4
46	3/25/2017	22:47:36	0	0	0	0	20.9	20.9	20.9	20.9	0	0	0	0	0	0	0	0	0.1	0.2	0.4	0.2
47	3/25/2017	22:57:36	0	0	0	0	20.9	20.9	20.9	20.9	0	0	0	0	0	0	0	0	0	0.2	0.5	0.1
48	3/25/2017	23:07:36	0	0	0	0	20.9	20.9	20.9	20.9	0	0	0	0	0	0	0	0	0	0.1	0.3	0.1
49	3/25/2017	23:17:36	0	0	0	0	20.9	20.9	20.9	20.9	0	0	0	0	0	0	0	0	0	0.2	0.7	0.1
50	3/25/2017	23:27:36	0	0	0	0	20.9	20.9	20.9	20.9	0	0	0	0	0	0	0	0	0	0.3	1	0.2
51	3/25/2017	23:37:36	0	0	0	0	20.9	20.9	20.9	20.9	0	0	0	0	0	0	0	0	0	0.1	0.8	0
52	3/25/2017	23:47:36	0	0	0	0	20.9	20.9	20.9	20.9	0	0	0	0	0	0	0	0	0	0.1	0.3	0.1
53	3/25/2017	23:57:36	0	0	0	0	20.9	20.9	20.9	20.9	0	0	0	0	0	0	0	0	0	0.1	0.5	0.1
54	3/26/2017	0:07:36	0	0	0	0	20.9	20.9	20.9	20.9	0	0	0	0	0	0	0	0	0	0.2	0.6	0.6
55	3/26/2017	0:17:36	0	0	0	0	20.9	20.9	20.9	20.9	0	0	0	0	0	0	0	0	0	0.2	0.6	0.1
56	3/26/2017	0:27:36	0	0	0	0	20.9	20.9	20.9	20.9	0	0	0	0	0	0	0	0	0	0.1	1	0.1
57	3/26/2017	0:37:36	0	0	0	0	20.9	20.9	20.9	20.9	0	0	0	0	0	0	0	0	0	0.1	0.4	0.1
58	3/26/2017	0:47:36	0	0	0	0	20.9	20.9	20.9	20.9	0	0	0	0	0	0	0	0	0	0.1	0.2	0
59	3/26/2017	0:57:36	0	0	0	0	20.9	20.9	20.9	20.9	0	0	0	0	0	0	0	0	0	0.1	0.4	0.1
60	3/26/2017	1:07:36	0	0	0	0	20.9	20.9	20.9	20.9	0	0	0	0	0	0	0	0	0	0.1	0.5	0.2
61	3/26/2017	1:17:36	0	0	0	0	20.9	20.9	20.9	20.9	0	0	0	0	0	0	0	0	0	0.2	0.8	0.5
62	3/26/2017	1:27:36	0	0	0	0	20.9	20.9	20.9	20.9	0	0	0	0	0	0	0	0	0	0.2	1.1	0
63	3/26/2017	1:37:36	0	0	0	0	20.9	20.9	20.9	20.9	0	0	0	0	0	0	0	0	0	0.1	0.2	0
64	3/26/2017	1:47:36	0	0	0	0	20.9	20.9	20.9	20.9	0	0	0	0	0	0	0	0	0	0.1	0.3	0
65	3/26/2017	1:57:36	0	0	0	0	20.9	20.9	20.9	20.9	0	0	0	0	0	0	0	0	0	0.1	0.6	0.1
66	3/26/2017	2:07:36	0	0	0	0	20.9	20.9	20.9	20.9	0	0	0	0	0	0	0	0	0	0.1	0.2	0.1
67	3/26/2017	2:17:36	0	0	0	0	20.9	20.9	20.9	20.9	0	0	0	0	0	0	0	0	0	0.1	0.3	0.1
68	3/26/2017	2:27:36	0	0	0	0	20.9	20.9	20.9	20.9	0	0	0	0	0	0	0	0	0	0.1	0.4	0.1
69	3/26/2017	2:37:36	0	0	0	0	20.9	20.9	20.9	20.9	0	0	0	0	0	0	0	0	0	0.2	1	0
70	3/26/2017	2:47:36	0	0	0	0	20.9	20.9	20.9	20.9	0	0	0	0	0	0	0	0	0	0.1	0.6	0.1
71	3/26/2017	2:57:36	0	0	0	0	20.9	20.9	20.9	20.9	0	0	0	0	0	0	0	0	0	0.2	0.9	0.1
72	3/26/2017	3:07:36	0	0	0	0	20.9	20.9	20.9	20.9	0	0	0	0	0	0	0	0	0	0.1	0.6	0.1
73	3/26/2017	3:17:36	0	0	0	0	20.9	20.9	20.9	20.9	0	0	0	0	0	0	0	0	0	0.1	0.3	0.1
74	3/26/2017	3:27:36	0	0	0	0	20.9	20.9	20.9	20.9	0	0	0	0	0	0	0	0	0	0.1	0.2	0
75	3/26/2017	3:37:36	0	0	0	0	20.9	20.9	20.9	20.9	0	0	0	0	0	0	0	0	0	0.2	0.5	0.1
76	3/26/2017	3:47:36	0	0	0	0	20.9	20.9	20.9	20.9	0	0	0	0	0	0	0	0	0	0.1	0.2	0

77	3/26/2017	3:57:36	0	0	0	0	20.9	20.9	20.9	20.9	0	0	0	0	0	0	0	0	0	0.1	0.2	0.1
78	3/26/2017	4:07:36	0	0	0	0	20.9	20.9	20.9	20.9	0	0	0	0	0	0	0	0	0	0.2	0.5	0.3
79	3/26/2017	4:17:36	0	0	0	0	20.9	20.9	20.9	20.9	0	0	0	0	0	0	0	0	0	0.1	0.4	0.2
80	3/26/2017	4:27:36	0	0	0	0	20.9	20.9	20.9	20.9	0	0	0	0	0	0	0	0	0	0.1	0.3	0.2
81	3/26/2017	4:37:36	0	0	0	0	20.9	20.9	20.9	20.9	0	0	0	0	0	0	0	0	0	0.1	0.5	0.2
82	3/26/2017	4:47:36	0	0	0	0	20.9	20.9	20.9	20.9	0	0	0	0	0	0	0	0	0	0.1	0.3	0
83	3/26/2017	4:57:36	0	0	0	0	20.9	20.9	20.9	20.9	0	0	0	0	0	0	0	0	0	0.1	0.6	0.1
84	3/26/2017	5:07:36	0	0	0	0	20.9	20.9	20.9	20.9	0	0	0	0	0	0	0	0	0	0.1	0.4	0
85	3/26/2017	5:17:36	0	0	0	0	20.9	20.9	20.9	20.9	0	0	0	0	0	0	0	0	0	0	0.1	0
86	3/26/2017	5:27:36	0	0	0	0	20.9	20.9	20.9	20.9	0	0	0	0	0	0	0	0	0	0.1	0.4	0.2
87	3/26/2017	5:37:36	0	0	0	0	20.9	20.9	20.9	20.9	0	0	0	0	0	0	0	0	0	0.1	0.2	0.1
88	3/26/2017	5:47:36	0	0	0	0	20.9	20.9	20.9	20.9	0	0	0	0	0	0	0	0	0	0.1	0.3	0.1
89	3/26/2017	5:57:36	0	0	0	0	20.9	20.9	20.9	20.9	0	0	0	0	0	0	0	0	0	0.1	0.4	0
90	3/26/2017	6:07:36	0	0	0	0	20.9	20.9	20.9	20.9	0	0	0	0	0	0	0	0	0	0	0.2	0
91	3/26/2017	6:17:36	0	0	0	0	20.9	20.9	20.9	20.9	0	0	0	0	0	0	0	0	0	0.1	0.4	0
92	3/26/2017	6:27:36	0	0	0	0	20.9	20.9	20.9	20.9	0	0	0	0	0	0	0	0	0	0.1	0.3	0.1
93	3/26/2017	6:37:36	0	0	0	0	20.9	20.9	20.9	20.9	0	0	0	0	0	0	0	0	0	0	0.2	0
94	3/26/2017	6:47:36	0	0	0	0	20.9	20.9	20.9	20.9	0	0	0	0	0	0	0	0	0	0.1	0.3	0.1
95	3/26/2017	6:57:36	0	0	0	0	20.9	20.9	20.9	20.9	0	0	0	0	0	0	0	0	0	0.1	0.3	0.1
96	3/26/2017	7:07:36	0	0	0	0	20.9	20.9	20.9	20.9	0	0	0	0	0	0	0	0	0	0.1	0.2	0
97	3/26/2017	7:17:36	0	0	0	0	20.9	20.9	20.9	20.9	0	0	0	0	0	0	0	0	0	0.1	0.3	0.1
98	3/26/2017	7:27:36	0	0	0	0	20.9	20.9	20.9	20.9	0	0	0	0	0	0	0	0	0	0.1	0.2	0
99	3/26/2017	7:37:36	0	0	0	0	20.9	20.9	20.9	20.9	0	0	0	0	0	0	0	0	0	0.1	0.4	0.2
100	3/26/2017	7:47:36	0	0	0	0	20.9	20.9	20.9	20.9	0	0	0	0	0	0	0	0	0	0	0.3	0.1
101	3/26/2017	7:57:36	0	0	0	0	20.9	20.9	20.9	20.9	0	0	0	0	0	0	0	0	0	0.1	1	0
102	3/26/2017	8:07:36	0	0	0	0	20.9	20.9	20.9	20.9	0	0	0	0	0	0	0	0	0	0.1	0.5	0
103	3/26/2017	8:17:36	0	0	0	0	20.9	20.9	20.9	20.9	0	0	0	0	0	0	0	0	0	0.2	0.8	0.2
104	3/26/2017	8:27:36	0	0	0	0	20.9	20.9	20.9	20.9	0	0	0	0	0	0	0	0	0	0.1	0.3	0
105	3/26/2017	8:37:36	0	0	0	0	20.9	20.9	20.9	20.9	0	0	0	0	0	0	0	0	0	0.1	0.5	0.1
106	3/26/2017	8:47:36	0	0	0	0	20.9	20.9	20.9	20.9	0	0	0	0	0	0	0	0	0	0.1	0.3	0
107	3/26/2017	8:57:36	0	0	0	0	20.9	20.9	20.9	20.9	0	0	0	0	0	0	0	0	0	0	0.3	0
108	3/26/2017	9:07:36	0	0	0	0	20.9	20.9	20.9	20.9	0	0	0	0	0	0	0	0	0	0.1	0.5	0.3
109	3/26/2017	9:17:36	0	0	0	0	20.9	20.9	20.9	20.9	0	0	0	0	0	0	0	0	0	0.1	0.3	0
110	3/26/2017	9:27:36	0	0	0	0	20.9	20.9	20.9	20.9	0	0	0	0	0	0	0	0	0	0.2	0.6	0.1
111	3/26/2017	9:37:36	0	0	0	0	20.9	20.9	20.9	20.9	0	0	0	0	0	0	0	0	0	0.3	1	0.1
112	3/26/2017	9:47:36	0	0	0	0	20.9	20.9	20.9	20.9	0	0	0	0	0	0	0	0	0	0.1	1.3	0
113	3/26/2017	9:57:36	0	0	0	0	20.9	20.9	20.9	20.9	0	0	0	0	0	0	0	0	0	0.1	0.4	0.1
114	3/26/2017	10:07:36	0	0	0	0	20.9	20.9	20.9	20.9	0	0	0	0	0	0	0	0	0	0.3	1.5	0.1
115	3/26/2017	10:17:36	0	0	0	0	20.9	20.9	20.9	20.9	0	0	0	0	0	0	0	0	0	0.1	0.3	0
116	3/26/2017	10:27:36	0	0	0	0	20.9	20.9	20.9	20.9	0	0	0	0	0	0	0	0	0	0.1	0.4	0.1
117	3/26/2017	10:37:36	0	0	0	0	20.9	20.9	20.9	20.9	0	0	0	0	0	0	0	0	0	0.1	0.6	0.1
118	3/26/2017	10:47:36	0	0	0	0	20.9	20.9	20.9	20.9	0	0	0	0	0	0	0	0	0	0.1	0.2	0
119	3/26/2017	10:57:36	0	0	0	0	20.9	20.9	20.9	20.9	0	0	0	0	0	0	0	0	0	0	0.2	0.1
120	3/26/2017	11:07:36	0	0	0	0	20.9	20.9	20.9	20.9	0	0	0	0	0	0	0	0	0	0.1	0.3	0
121	3/26/2017	11:17:36	0	0	0	0	20.9	20.9	20.9	20.9	0	0	0	0	0	0	0	0	0	0.1	0.3	0
122	3/26/2017	11:27:36	0	0	0	0	20.9	20.9	20.9	20.9	0	0	0	0	0	0	0	0	0	0.1	1.1	0.1
123	3/26/2017	11:37:36	0	0	0	0	20.9	20.9	20.9	20.9	0	0	0	0	0	0	0	0	0	0.1	0.8	0.1
124	3/26/2017	11:47:36	0	0	0	0	20.9	20.9	20.9	20.9	0	0	0	0	0	0	0	0	0	0.1	0.4	0.1
125	3/26/2017	11:57:36	0	0	0	0	20.9	20.9	20.9	20.9	0	0	0	0	0	0	0	0	0	0.1	0.3	0.1
126	3/26/2017	12:07:36	0	0	0	0	20.9	20.9	20.9	20.9	0	0	0	0	0	0	0	0	0	0.1	0.2	0.2
127	3/26/2017	12:17:36	0	0	0	0	20.9	20.9	20.9	20.9	0	0	0	0	0	0	0	0	0	0.1	0.4	0.1
128	3/26/2017	12:27:36	0	0	0	0	20.9	20.9	20.9	20.9	0	0	0	0	0	0	0	0	0	0.3	1.4	0
129	3/26/2017	12:37:36	0	0	0	0	20.9	20.9	20.9	20.9	0	0	0	0	0	0	0	0	0	0.1	0.4	0.3
130	3/26/2017	12:47:36	0	0	0	0	20.9	20.9	20.9	20.9	0	0	0	0	0	0	0	0	0	0.1	0.7	0
131	3/26/2017	12:57:36	0	0	0	0	20.9	20.9	20.9	20.9	0	0	0	0	0	0	0	0	0	0.1	0.5	0
132	3/26/2017	13:07:36	0	0	0	0	20.9	20.9	20.9	20.9	0	0	0	0	0	0	0	0	0	0.1	0.2	0.1
133	3/26/2017	13:17:36	0	0	0	0	20.9	20.9	20.9	20.9	0	0	0	0	0	0	0	0	0	0.1	0.2	0.1

134	3/26/2017	13:27:36	0	0	0	0	20.9	20.9	20.9	20.9	0	0	0	0	0	0	0	0	0	0.1	0.3	0
135	3/26/2017	13:37:36	0	0	0	0	20.9	20.9	20.9	20.9	0	0	0	0	0	0	0	0	0	0.1	0.3	0.1
136	3/26/2017	13:47:36	0	0	0	0	20.9	20.9	20.9	20.9	0	0	0	0	0	0	0	0	0	0.1	0.3	0.1
137	3/26/2017	13:57:36	0	0	0	0	20.9	20.9	20.9	20.9	0	0	0	0	0	0	0	0	0	0.1	0.1	0
138	3/26/2017	14:07:36	0	0	0	0	20.9	20.9	20.9	20.9	0	0	0	0	0	0	0	0	0	0.1	0.5	0.2
139	3/26/2017	14:17:36	0	0	0	0	20.9	20.9	20.9	20.9	0	0	0	0	0	0	0	0	0	0.2	0.7	0.1
140	3/26/2017	14:27:36	0	0	0	0	20.9	20.9	20.9	20.9	0	0	0	0	0	0	0	0	0	0.2	1.1	0.1
141	3/26/2017	14:37:36	0	0	0	0	20.9	20.9	20.9	20.9	0	0	0	0	0	0	0	0	0	0.1	0.2	0.1
142	3/26/2017	14:47:36	0	0	0	0	20.9	20.9	20.9	20.9	0	0	0	0	0	0	0	0	0	0.2	0.3	0.2
143	3/26/2017	14:57:36	0	0	0	0	20.9	20.9	20.9	20.9	0	0	0	0	0	0	0	0	0	0.1	0.3	0.2
144	3/26/2017	15:07:36	0	0	0	0	20.9	20.9	20.9	20.9	0	0	0	0	0	0	0	0	0	0.2	1.8	0.5
Peak			0	0	0	0	20.9	20.9	20.9	20.9	0	0	0	0	0	0	0	0	0.1	0.7	3.4	0.8
Min			0	0	0	0	20.9	20.9	20.9	20.9	0	0	0	0	0	0	0	0	0	0	0.1	0
Average			0	0	0	0	20.9	20.9	20.9	20.9	0	0	0	0	0	0	0	0	0	0.1	0.5	0.1

\*\*\*\*\*

TWA/STEL

Index	Date/Time		H2S(ppm)		CO(ppm)		VOC(ppm)	
			(TWA)	(STEL)	(TWA)	(STEL)	(TWA)	(STEL)
1	3/25/2017	15:17:36	0	---	0	---	0	---
2	3/25/2017	15:27:36	0	0	0	0	0	0.1
3	3/25/2017	15:37:36	0	0	0	0	0	0.1
4	3/25/2017	15:47:36	0	0	0	0	0	0.1
5	3/25/2017	15:57:36	0	0	0	0	0	0.2
6	3/25/2017	16:07:36	0	0	0	0	0	0.2
7	3/25/2017	16:17:36	0	0	0	0	0	0.2
8	3/25/2017	16:27:36	0	0	0	0	0	0.1
9	3/25/2017	16:37:36	0	0	0	0	0	0.1
10	3/25/2017	16:47:36	0	0	0	0	0	0.1
11	3/25/2017	16:57:36	0	0	0	0	0	0.1
12	3/25/2017	17:07:36	0	0	0	0	0	0.1
13	3/25/2017	17:17:36	0	0	0	0	0	0.1
14	3/25/2017	17:27:36	0	0	0	0	0	0.1
15	3/25/2017	17:37:36	0	0	0	0	0	0.1
16	3/25/2017	17:47:36	0	0	0	0	0	0.1
17	3/25/2017	17:57:36	0	0	0	0	0.1	0.6
18	3/25/2017	18:07:36	0	0	0	0	0.1	0.6
19	3/25/2017	18:17:36	0	0	0	0	0.1	0.2
20	3/25/2017	18:27:36	0	0	0	0	0.1	0.3
21	3/25/2017	18:37:36	0	0	0	0	0.1	0.2
22	3/25/2017	18:47:36	0	0	0	0	0.1	0.2
23	3/25/2017	18:57:36	0	0	0	0	0.1	0.3
24	3/25/2017	19:07:36	0	0	0	0	0.1	0.2
25	3/25/2017	19:17:36	0	0	0	0	0.1	0.1
26	3/25/2017	19:27:36	0	0	0	0	0.1	0.1
27	3/25/2017	19:37:36	0	0	0	0	0.1	0.1
28	3/25/2017	19:47:36	0	0	0	0	0.1	0.1
29	3/25/2017	19:57:36	0	0	0	0	0.1	0.1
30	3/25/2017	20:07:36	0	0	0	0	0.1	0.6
31	3/25/2017	20:17:36	0	0	0	0	0.1	0.6
32	3/25/2017	20:27:36	0	0	0	0	0.1	0.1
33	3/25/2017	20:37:36	0	0	0	0	0.1	0.1
34	3/25/2017	20:47:36	0	0	0	0	0.1	0.1
35	3/25/2017	20:57:36	0	0	0	0	0.1	0.4
36	3/25/2017	21:07:36	0	0	0	0	0.1	0.4
37	3/25/2017	21:17:36	0	0	0	0	0.1	0.1
38	3/25/2017	21:27:36	0	0	0	0	0.1	0.1

39	3/25/2017	21:37:36	0	0	0	0	0.1	0.1
40	3/25/2017	21:47:36	0	0	0	0	0.1	0.1
41	3/25/2017	21:57:36	0	0	0	0	0.1	0.1
42	3/25/2017	22:07:36	0	0	0	0	0.1	0.1
43	3/25/2017	22:17:36	0	0	0	0	0.1	0.2
44	3/25/2017	22:27:36	0	0	0	0	0.1	0.2
45	3/25/2017	22:37:36	0	0	0	0	0.1	0.3
46	3/25/2017	22:47:36	0	0	0	0	0.1	0.4
47	3/25/2017	22:57:36	0	0	0	0	0.2	0.2
48	3/25/2017	23:07:36	0	0	0	0	0.2	0.1
49	3/25/2017	23:17:36	0	0	0	0	0.2	0.1
50	3/25/2017	23:27:36	0	0	0	0	0.2	0.2
51	3/25/2017	23:37:36	0	0	0	0	0.2	0.1
52	3/25/2017	23:47:36	0	0	0	0	0.2	0.1
53	3/25/2017	23:57:36	0	0	0	0	0.2	0.1
54	3/26/2017	0:07:36	0	0	0	0	0.2	0.5
55	3/26/2017	0:17:36	0	0	0	0	0.2	0.5
56	3/26/2017	0:27:36	0	0	0	0	0.2	0.1
57	3/26/2017	0:37:36	0	0	0	0	0.2	0.1
58	3/26/2017	0:47:36	0	0	0	0	0.2	0.1
59	3/26/2017	0:57:36	0	0	0	0	0.2	0.1
60	3/26/2017	1:07:36	0	0	0	0	0.2	0.2
61	3/26/2017	1:17:36	0	0	0	0	0.2	0.5
62	3/26/2017	1:27:36	0	0	0	0	0.2	0.3
63	3/26/2017	1:37:36	0	0	0	0	0.2	0
64	3/26/2017	1:47:36	0	0	0	0	0.2	0
65	3/26/2017	1:57:36	0	0	0	0	0.2	0.1
66	3/26/2017	2:07:36	0	0	0	0	0.2	0.1
67	3/26/2017	2:17:36	0	0	0	0	0.2	0.1
68	3/26/2017	2:27:36	0	0	0	0	0.2	0.1
69	3/26/2017	2:37:36	0	0	0	0	0.2	0.1
70	3/26/2017	2:47:36	0	0	0	0	0.2	0.1
71	3/26/2017	2:57:36	0	0	0	0	0.2	0.1
72	3/26/2017	3:07:36	0	0	0	0	0.2	0.1
73	3/26/2017	3:17:36	0	0	0	0	0.2	0.1
74	3/26/2017	3:27:36	0	0	0	0	0.2	0.1
75	3/26/2017	3:37:36	0	0	0	0	0.2	0.1
76	3/26/2017	3:47:36	0	0	0	0	0.2	0.1
77	3/26/2017	3:57:36	0	0	0	0	0.2	0.1
78	3/26/2017	4:07:36	0	0	0	0	0.2	0.3
79	3/26/2017	4:17:36	0	0	0	0	0.2	0.3
80	3/26/2017	4:27:36	0	0	0	0	0.2	0.3
81	3/26/2017	4:37:36	0	0	0	0	0.2	0.3
82	3/26/2017	4:47:36	0	0	0	0	0.2	0.1
83	3/26/2017	4:57:36	0	0	0	0	0.2	0.1
84	3/26/2017	5:07:36	0	0	0	0	0.2	0.1
85	3/26/2017	5:17:36	0	0	0	0	0.2	0
86	3/26/2017	5:27:36	0	0	0	0	0.2	0.1
87	3/26/2017	5:37:36	0	0	0	0	0.2	0.2
88	3/26/2017	5:47:36	0	0	0	0	0.2	0.1
89	3/26/2017	5:57:36	0	0	0	0	0.2	0.1
90	3/26/2017	6:07:36	0	0	0	0	0.2	0
91	3/26/2017	6:17:36	0	0	0	0	0.2	0
92	3/26/2017	6:27:36	0	0	0	0	0.3	0.1
93	3/26/2017	6:37:36	0	0	0	0	0.3	0.1
94	3/26/2017	6:47:36	0	0	0	0	0.3	0.1
95	3/26/2017	6:57:36	0	0	0	0	0.3	0.1



96	3/26/2017	7:07:36	0	0	0	0	0.3	0.1
97	3/26/2017	7:17:36	0	0	0	0	0.3	0.1
98	3/26/2017	7:27:36	0	0	0	0	0.3	0.1
99	3/26/2017	7:37:36	0	0	0	0	0.3	0.1
100	3/26/2017	7:47:36	0	0	0	0	0.3	0.2
101	3/26/2017	7:57:36	0	0	0	0	0.3	0.1
102	3/26/2017	8:07:36	0	0	0	0	0.3	0
103	3/26/2017	8:17:36	0	0	0	0	0.3	0.1
104	3/26/2017	8:27:36	0	0	0	0	0.3	0.1
105	3/26/2017	8:37:36	0	0	0	0	0.3	0.1
106	3/26/2017	8:47:36	0	0	0	0	0.3	0.1
107	3/26/2017	8:57:36	0	0	0	0	0.3	0
108	3/26/2017	9:07:36	0	0	0	0	0.3	0.2
109	3/26/2017	9:17:36	0	0	0	0	0.3	0.2
110	3/26/2017	9:27:36	0	0	0	0	0.3	0.1
111	3/26/2017	9:37:36	0	0	0	0	0.3	0.1
112	3/26/2017	9:47:36	0	0	0	0	0.3	0.1
113	3/26/2017	9:57:36	0	0	0	0	0.3	0.1
114	3/26/2017	10:07:36	0	0	0	0	0.3	0.1
115	3/26/2017	10:17:36	0	0	0	0	0.3	0.1
116	3/26/2017	10:27:36	0	0	0	0	0.3	0.1
117	3/26/2017	10:37:36	0	0	0	0	0.3	0.1
118	3/26/2017	10:47:36	0	0	0	0	0.3	0.1
119	3/26/2017	10:57:36	0	0	0	0	0.3	0.1
120	3/26/2017	11:07:36	0	0	0	0	0.3	0.1
121	3/26/2017	11:17:36	0	0	0	0	0.3	0
122	3/26/2017	11:27:36	0	0	0	0	0.3	0.1
123	3/26/2017	11:37:36	0	0	0	0	0.3	0.1
124	3/26/2017	11:47:36	0	0	0	0	0.3	0.1
125	3/26/2017	11:57:36	0	0	0	0	0.3	0.1
126	3/26/2017	12:07:36	0	0	0	0	0.3	0.2
127	3/26/2017	12:17:36	0	0	0	0	0.3	0.2
128	3/26/2017	12:27:36	0	0	0	0	0.3	0.1
129	3/26/2017	12:37:36	0	0	0	0	0.3	0.2
130	3/26/2017	12:47:36	0	0	0	0	0.3	0.2
131	3/26/2017	12:57:36	0	0	0	0	0.3	0
132	3/26/2017	13:07:36	0	0	0	0	0.3	0.1
133	3/26/2017	13:17:36	0	0	0	0	0.3	0.1
134	3/26/2017	13:27:36	0	0	0	0	0.3	0.1
135	3/26/2017	13:37:36	0	0	0	0	0.3	0.1
136	3/26/2017	13:47:36	0	0	0	0	0.3	0.1
137	3/26/2017	13:57:36	0	0	0	0	0.3	0.1
138	3/26/2017	14:07:36	0	0	0	0	0.3	0.1
139	3/26/2017	14:17:36	0	0	0	0	0.3	0.2
140	3/26/2017	14:27:36	0	0	0	0	0.3	0.1
141	3/26/2017	14:37:36	0	0	0	0	0.3	0.1
142	3/26/2017	14:47:36	0	0	0	0	0.3	0.2
143	3/26/2017	14:57:36	0	0	0	0	0.3	0.3
144	3/26/2017	15:07:36	0	0	0	0	0.3	0.5

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17/03/26 15:07

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Summary

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Unit Name MultiRAE(PGM-6228)  
Unit SN MBB3Z064Q8  
Unit Firmware Ver V1.31

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Running Mode Hygiene Mode
Datalog Mode Auto
Diagnostic Mode No
Stop Reason Pause in CommunicatMode
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Site ID 194
User ID 0
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Begin 3/26/2017 15:07:36
End 3/27/2017 12:35:10
Sample Period(s) 600
Number of Records 128
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Sensor LEL(%LEL) OXY(%) H2S(ppm) CO(ppm) VOC(ppm)
Sensor SN SC03111289 SC0342108 SC03AR0062 SC0306033 SC03A40150Q7
Measure Type Min Avg Max Real Min Avg Max Real Min Avg Max Real Min Avg Max Real Min Avg Max Real
Span 50 18 1 50 10
Span 2 N/A N/A N/A N/A 1000
Low Alarm 10 19.5 10 35 50
High Alarm 20 23.5 20 200 100
Over Alarm 100 30 100 500 5000
STEL Alarm N/A N/A 15 100 25
TWA Alarm N/A N/A 10 35 10
Measurem Gas(CF) Methane(1.0) N/A N/A N/A Isobutylene(1.00)
CalibrationTime 3/24/2017 15:03 3/24/2017 15:03 3/24/2017 15:07 3/24/2017 15:03 3/24/2017 15:05
Peak 0 20.9 0 0 1.7
Min 0 20.9 0 0 0
Average 0 20.9 0 0 0.2
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Datalog

Index	Date/Time	LEL(%LEL) (Min)	LEL(%LEL) (Avg)	LEL(%LEL) (Max)	LEL(%LEL) (Real)	OXY(%) (Min)	OXY(%) (Avg)	OXY(%) (Max)	OXY(%) (Real)	H2S(ppm) (Min)	H2S(ppm) (Avg)	H2S(ppm) (Max)	H2S(ppm) (Real)	CO(ppm) (Min)	CO(ppm) (Avg)	CO(ppm) (Max)	CO(ppm) (Real)	VOC(ppm) (Min)	VOC(ppm) (Avg)	VOC(ppm) (Max)	VOC(ppm) (Real)	
1	3/26/2017 15:17:36	0	0	0	0	20.9	20.9	20.9	20.9	0	0	0	0	0	0	0	0	0	0	0.2	0.9	0.1
2	3/26/2017 15:27:36	0	0	0	0	20.9	20.9	20.9	20.9	0	0	0	0	0	0	0	0	0	0	0.1	0.4	0.2
3	3/26/2017 15:37:36	0	0	0	0	20.9	20.9	20.9	20.9	0	0	0	0	0	0	0	0	0	0	0.1	0.8	0.1
4	3/26/2017 15:47:36	0	0	0	0	20.9	20.9	20.9	20.9	0	0	0	0	0	0	0	0	0	0	0.1	0.2	0
5	3/26/2017 15:57:36	0	0	0	0	20.9	20.9	20.9	20.9	0	0	0	0	0	0	0	0	0	0	0.2	0.8	0.1
6	3/26/2017 16:07:36	0	0	0	0	20.9	20.9	20.9	20.9	0	0	0	0	0	0	0	0	0	0	0.1	0.6	0
7	3/26/2017 16:17:36	0	0	0	0	20.9	20.9	20.9	20.9	0	0	0	0	0	0	0	0	0	0	0.1	0.6	0.1
8	3/26/2017 16:27:36	0	0	0	0	20.9	20.9	20.9	20.9	0	0	0	0	0	0	0	0	0	0	0.3	0.7	0.1
9	3/26/2017 16:37:36	0	0	0	0	20.9	20.9	20.9	20.9	0	0	0	0	0	0	0	0	0	0	0.2	0.5	0.1
10	3/26/2017 16:47:36	0	0	0	0	20.9	20.9	20.9	20.9	0	0	0	0	0	0	0	0	0	0	0.2	1.4	0.6
11	3/26/2017 16:57:36	0	0	0	0	20.9	20.9	20.9	20.9	0	0	0	0	0	0	0	0	0	0	0.2	0.9	0
12	3/26/2017 17:07:36	0	0	0	0	20.9	20.9	20.9	20.9	0	0	0	0	0	0	0	0	0	0	0.1	0.6	0.1
13	3/26/2017 17:17:36	0	0	0	0	20.9	20.9	20.9	20.9	0	0	0	0	0	0	0	0	0	0	0.1	0.7	0.3
14	3/26/2017 17:27:36	0	0	0	0	20.9	20.9	20.9	20.9	0	0	0	0	0	0	0	0	0	0	0.1	0.4	0
15	3/26/2017 17:37:36	0	0	0	0	20.9	20.9	20.9	20.9	0	0	0	0	0	0	0	0	0	0	0.1	0.2	0.1
16	3/26/2017 17:47:36	0	0	0	0	20.9	20.9	20.9	20.9	0	0	0	0	0	0	0	0	0	0	0.1	0.4	0.1
17	3/26/2017 17:57:36	0	0	0	0	20.9	20.9	20.9	20.9	0	0	0	0	0	0	0	0	0	0	0.1	0.4	0.2
18	3/26/2017 18:07:36	0	0	0	0	20.9	20.9	20.9	20.9	0	0	0	0	0	0	0	0	0	0	0.2	1	0.1
19	3/26/2017 18:17:36	0	0	0	0	20.9	20.9	20.9	20.9	0	0	0	0	0	0	0	0	0	0	0.2	0.5	0.3
20	3/26/2017 18:27:36	0	0	0	0	20.9	20.9	20.9	20.9	0	0	0	0	0	0	0	0	0	0	0.3	0.7	0.1
21	3/26/2017 18:37:36	0	0	0	0	20.9	20.9	20.9	20.9	0	0	0	0	0	0	0	0	0	0	0.2	0.6	0
22	3/26/2017 18:47:36	0	0	0	0	20.9	20.9	20.9	20.9	0	0	0	0	0	0	0	0	0	0	0.2	0.5	0.2
23	3/26/2017 18:57:36	0	0	0	0	20.9	20.9	20.9	20.9	0	0	0	0	0	0	0	0	0	0	0.1	0.5	0

24	3/26/2017	19:07:36	0	0	0	0	20.9	20.9	20.9	20.9	0	0	0	0	0	0	0	0	0.1	0.2	0	
25	3/26/2017	19:17:36	0	0	0	0	20.9	20.9	20.9	20.9	0	0	0	0	0	0	0	0	0.1	0.3	0	
26	3/26/2017	19:27:36	0	0	0	0	20.9	20.9	20.9	20.9	0	0	0	0	0	0	0	0	0.2	0.6	0.1	
27	3/26/2017	19:37:36	0	0	0	0	20.9	20.9	20.9	20.9	0	0	0	0	0	0	0	0	0.1	0.3	0.2	
28	3/26/2017	19:47:36	0	0	0	0	20.9	20.9	20.9	20.9	0	0	0	0	0	0	0	0	0.1	0.5	0.1	
29	3/26/2017	19:57:36	0	0	0	0	20.9	20.9	20.9	20.9	0	0	0	0	0	0	0	0	0.2	0.9	0.4	
30	3/26/2017	20:07:36	0	0	0	0	20.9	20.9	20.9	20.9	0	0	0	0	0	0	0	0	0.2	0.6	0.2	
31	3/26/2017	20:17:36	0	0	0	0	20.9	20.9	20.9	20.9	0	0	0	0	0	0	0	0	0.2	0.9	0.3	
32	3/26/2017	20:27:36	0	0	0	0	20.9	20.9	20.9	20.9	0	0	0	0	0	0	0	0	0.1	0.4	0.1	
33	3/26/2017	20:37:36	0	0	0	0	20.9	20.9	20.9	20.9	0	0	0	0	0	0	0	0	0.2	1	0.1	
34	3/26/2017	20:47:36	0	0	0	0	20.9	20.9	20.9	20.9	0	0	0	0	0	0	0	0	0.1	1.5	0	
35	3/26/2017	20:57:36	0	0	0	0	20.9	20.9	20.9	20.9	0	0	0	0	0	0	0	0	0	0.2	0	
36	3/26/2017	21:07:36	0	0	0	0	20.9	20.9	20.9	20.9	0	0	0	0	0	0	0	0	0	0.1	0.1	
37	3/26/2017	21:17:36	0	0	0	0	20.9	20.9	20.9	20.9	0	0	0	0	0	0	0	0	0.1	0.5	0	
38	3/26/2017	21:27:36	0	0	0	0	20.9	20.9	20.9	20.9	0	0	0	0	0	0	0	0	0.1	0.4	0.4	
39	3/26/2017	21:37:36	0	0	0	0	20.9	20.9	20.9	20.9	0	0	0	0	0	0	0	0	0.1	0.6	0	
40	3/26/2017	21:47:36	0	0	0	0	20.9	20.9	20.9	20.9	0	0	0	0	0	0	0	0	0.5	1.6	0.3	
41	3/26/2017	21:57:36	0	0	0	0	20.9	20.9	20.9	20.9	0	0	0	0	0	0	0	0	0.1	0.4	0.1	
42	3/26/2017	22:07:36	0	0	0	0	20.9	20.9	20.9	20.9	0	0	0	0	0	0	0	0	0.1	0.4	0.1	
43	3/26/2017	22:17:36	0	0	0	0	20.9	20.9	20.9	20.9	0	0	0	0	0	0	0	0	0.1	0.3	0.1	
44	3/26/2017	22:27:36	0	0	0	0	20.9	20.9	20.9	20.9	0	0	0	0	0	0	0	0	0.1	0.4	0.1	
45	3/26/2017	22:37:36	0	0	0	0	20.9	20.9	20.9	20.9	0	0	0	0	0	0	0	0	0.1	0.5	0	
46	3/26/2017	22:47:36	0	0	0	0	20.9	20.9	20.9	20.9	0	0	0	0	0	0	0	0	0.2	0.5	0	
47	3/26/2017	22:57:36	0	0	0	0	20.9	20.9	20.9	20.9	0	0	0	0	0	0	0	0	0.1	0.4	0.1	
48	3/26/2017	23:07:36	0	0	0	0	20.9	20.9	20.9	20.9	0	0	0	0	0	0	0	0	0.1	0.4	0.2	
49	3/26/2017	23:17:36	0	0	0	0	20.9	20.9	20.9	20.9	0	0	0	0	0	0	0	0	0.2	1	0	
50	3/26/2017	23:27:36	0	0	0	0	20.9	20.9	20.9	20.9	0	0	0	0	0	0	0	0	0.1	0.4	0.1	
51	3/26/2017	23:37:36	0	0	0	0	20.9	20.9	20.9	20.9	0	0	0	0	0	0	0	0	0.1	0.3	0.1	
52	3/26/2017	23:47:36	0	0	0	0	20.9	20.9	20.9	20.9	0	0	0	0	0	0	0	0	0.1	0.4	0	
53	3/26/2017	23:57:36	0	0	0	0	20.9	20.9	20.9	20.9	0	0	0	0	0	0	0	0	0.1	0.2	0	
54	3/27/2017	0:07:36	0	0	0	0	20.9	20.9	20.9	20.9	0	0	0	0	0	0	0	0	0.1	0.3	0.1	
55	3/27/2017	0:17:36	0	0	0	0	20.9	20.9	20.9	20.9	0	0	0	0	0	0	0	0	0.1	0.5	0.1	
56	3/27/2017	0:27:36	0	0	0	0	20.9	20.9	20.9	20.9	0	0	0	0	0	0	0	0	0.1	0.3	0.1	
57	3/27/2017	0:37:36	0	0	0	0	20.9	20.9	20.9	20.9	0	0	0	0	0	0	0	0	0.1	0.3	0.2	
58	3/27/2017	0:47:36	0	0	0	0	20.9	20.9	20.9	20.9	0	0	0	0	0	0	0	0	0.1	0.3	0	
59	3/27/2017	0:57:36	0	0	0	0	20.9	20.9	20.9	20.9	0	0	0	0	0	0	0	0	0.1	0.5	0.1	
60	3/27/2017	1:07:36	0	0	0	0	20.9	20.9	20.9	20.9	0	0	0	0	0	0	0	0	0.1	0.6	0.1	
61	3/27/2017	1:17:36	0	0	0	0	20.9	20.9	20.9	20.9	0	0	0	0	0	0	0	0	0.1	0.3	0.2	
62	3/27/2017	1:27:36	0	0	0	0	20.9	20.9	20.9	20.9	0	0	0	0	0	0	0	0	0.2	0.6	0	
63	3/27/2017	1:37:36	0	0	0	0	20.9	20.9	20.9	20.9	0	0	0	0	0	0	0	0	0.1	0.4	0.1	
64	3/27/2017	1:47:36	0	0	0	0	20.9	20.9	20.9	20.9	0	0	0	0	0	0	0	0	0.1	0.2	0.7	0.1
65	3/27/2017	1:57:36	0	0	0	0	20.9	20.9	20.9	20.9	0	0	0	0	0	0	0	0	0.1	0.5	0.1	
66	3/27/2017	2:07:36	0	0	0	0	20.9	20.9	20.9	20.9	0	0	0	0	0	0	0	0	0.3	1.7	0.1	
67	3/27/2017	2:17:36	0	0	0	0	20.9	20.9	20.9	20.9	0	0	0	0	0	0	0	0	0.4	1.3	0.3	
68	3/27/2017	2:27:36	0	0	0	0	20.9	20.9	20.9	20.9	0	0	0	0	0	0	0	0	0.1	0.3	0.7	0.5
69	3/27/2017	2:37:36	0	0	0	0	20.9	20.9	20.9	20.9	0	0	0	0	0	0	0	0	0.1	0.3	0.7	0.3
70	3/27/2017	2:47:36	0	0	0	0	20.9	20.9	20.9	20.9	0	0	0	0	0	0	0	0	0.1	0.5	0.1	
71	3/27/2017	2:57:36	0	0	0	0	20.9	20.9	20.9	20.9	0	0	0	0	0	0	0	0	0.2	0.6	0.1	
72	3/27/2017	3:07:36	0	0	0	0	20.9	20.9	20.9	20.9	0	0	0	0	0	0	0	0	0.2	0.8	0.1	
73	3/27/2017	3:17:36	0	0	0	0	20.9	20.9	20.9	20.9	0	0	0	0	0	0	0	0	0.2	0.8	0.2	
74	3/27/2017	3:27:36	0	0	0	0	20.9	20.9	20.9	20.9	0	0	0	0	0	0	0	0	0.3	0.8	0.2	
75	3/27/2017	3:37:36	0	0	0	0	20.9	20.9	20.9	20.9	0	0	0	0	0	0	0	0	0.4	1.7	0.4	
76	3/27/2017	3:47:36	0	0	0	0	20.9	20.9	20.9	20.9	0	0	0	0	0	0	0	0	0.1	0.5	1.3	0.4
77	3/27/2017	3:57:36	0	0	0	0	20.9	20.9	20.9	20.9	0	0	0	0	0	0	0	0	0.1	1.2	4	0.4
78	3/27/2017	4:07:36	0	0	0	0	20.9	20.9	20.9	20.9	0	0	0	0	0	0	0	0	0.1	0.5	1.3	0.4
79	3/27/2017	4:17:36	0	0	0	0	20.9	20.9	20.9	20.9	0	0	0	0	0	0	0	0	0.1	0.6	2.1	0.4
80	3/27/2017	4:27:36	0	0	0	0	20.9	20.9	20.9	20.9	0	0	0	0	0	0	0	0	0.1	0.4	0.7	0.3

81	3/27/2017	4:37:36	0	0	0	0	20.9	20.9	20.9	20.9	0	0	0	0	0	0	0	0	0.3	1.1	0.1
82	3/27/2017	4:47:36	0	0	0	0	20.9	20.9	20.9	20.9	0	0	0	0	0	0	0	0.1	0.4	1.1	0.1
83	3/27/2017	4:57:36	0	0	0	0	20.9	20.9	20.9	20.9	0	0	0	0	0	0	0	0	0.1	0.3	0
84	3/27/2017	5:07:36	0	0	0	0	20.9	20.9	20.9	20.9	0	0	0	0	0	0	0	0	0.2	1.3	0.9
85	3/27/2017	5:17:36	0	0	0	0	20.9	20.9	20.9	20.9	0	0	0	0	0	0	0	0	0.5	3.2	0.5
86	3/27/2017	5:27:36	0	0	0	0	20.9	20.9	20.9	20.9	0	0	0	0	0	0	0	0.1	0.3	1	0.2
87	3/27/2017	5:37:36	0	0	0	0	20.9	20.9	20.9	20.9	0	0	0	0	0	0	0	0	0.3	2.1	0.1
88	3/27/2017	5:47:36	0	0	0	0	20.9	20.9	20.9	20.9	0	0	0	0	0	0	0	0	0.2	1.4	0.2
89	3/27/2017	5:57:36	0	0	0	0	20.9	20.9	20.9	20.9	0	0	0	0	0	0	0	0	0.2	1.8	0
90	3/27/2017	6:07:36	0	0	0	0	20.9	20.9	20.9	20.9	0	0	0	0	0	0	0	0	0.1	0.2	0.1
91	3/27/2017	6:17:36	0	0	0	0	20.9	20.9	20.9	20.9	0	0	0	0	0	0	0	0	0.3	1.4	0.1
92	3/27/2017	6:27:36	0	0	0	0	20.9	20.9	20.9	20.9	0	0	0	0	0	0	0	0	0.1	0.4	0
93	3/27/2017	6:37:36	0	0	0	0	20.9	20.9	20.9	20.9	0	0	0	0	0	0	0	0	0.1	0.4	0
94	3/27/2017	6:47:36	0	0	0	0	20.9	20.9	20.9	20.9	0	0	0	0	0	0	0	0	0.3	1.4	0.3
95	3/27/2017	6:57:36	0	0	0	0	20.9	20.9	20.9	20.9	0	0	0	0	0	0	0	0	0.2	1	0.3
96	3/27/2017	7:07:36	0	0	0	0	20.9	20.9	20.9	20.9	0	0	0	0	0	0	0	0	0.1	0.3	0
97	3/27/2017	7:17:36	0	0	0	0	20.9	20.9	20.9	20.9	0	0	0	0	0	0	0	0	0.5	3.3	0.2
98	3/27/2017	7:27:36	0	0	0	0	20.9	20.9	20.9	20.9	0	0	0	0	0	0	0	0.1	1.2	2.7	1.6
99	3/27/2017	7:37:36	0	0	0	0	20.9	20.9	20.9	20.9	0	0	0	0	0	0	0	0	0.3	2	0.4
100	3/27/2017	7:47:36	0	0	0	0	20.9	20.9	20.9	20.9	0	0	0	0	0	0	0	0.1	0.2	0.8	0.1
101	3/27/2017	7:57:36	0	0	0	0	20.9	20.9	20.9	20.9	0	0	0	0	0	0	0	0.1	0.9	2.3	1.7
102	3/27/2017	8:07:36	0	0	0	0	20.9	20.9	20.9	20.9	0	0	0	0	0	0	0	0.2	0.9	2.9	0.2
103	3/27/2017	8:17:36	0	0	0	0	20.9	20.9	20.9	20.9	0	0	0	0	0	0	0	0	0.3	0.8	0.3
104	3/27/2017	8:27:36	0	0	0	0	20.9	20.9	20.9	20.9	0	0	0	0	0	0	0	0	0.2	1.2	0.1
105	3/27/2017	8:37:36	0	0	0	0	20.9	20.9	20.9	20.9	0	0	0	0	0	0	0	0	0.1	0.8	0.8
106	3/27/2017	8:47:36	0	0	0	0	20.9	20.9	20.9	20.9	0	0	0	0	0	0	0	0.1	0.7	1.3	0.8
107	3/27/2017	8:57:36	0	0	0	0	20.9	20.9	20.9	20.9	0	0	0	0	0	0	0	0	0.5	1.7	0.6
108	3/27/2017	9:07:36	0	0	0	0	20.9	20.9	20.9	20.9	0	0	0	0	0	0	0	0	0.3	2.1	0
109	3/27/2017	9:17:36	0	0	0	0	20.9	20.9	20.9	20.9	0	0	0	0	0	0	0	0	0.1	0.6	0.2
110	3/27/2017	9:27:36	0	0	0	0	20.9	20.9	20.9	20.9	0	0	0	0	0	0	0	0	0.1	0.4	0
111	3/27/2017	9:37:36	0	0	0	0	20.9	20.9	20.9	20.9	0	0	0	0	0	0	0	0	0.3	2	0.2
112	3/27/2017	9:47:36	0	0	0	0	20.9	20.9	20.9	20.9	0	0	0	0	0	0	0	0	0.1	0.5	0.1
113	3/27/2017	9:57:36	0	0	0	0	20.9	20.9	20.9	20.9	0	0	0	0	0	0	0	0	0.8	3.6	0.2
114	3/27/2017	10:07:36	0	0	0	0	20.9	20.9	20.9	20.9	0	0	0	0	0	0	0	0	0.4	2.5	0.3
115	3/27/2017	10:17:36	0	0	0	0	20.9	20.9	20.9	20.9	0	0	0	0	0	0	0	0.1	0.7	2.8	1.4
116	3/27/2017	10:27:36	0	0	0	0	20.9	20.9	20.9	20.9	0	0	0	0	0	0	0	0.1	0.7	2.1	0.4
117	3/27/2017	10:37:36	0	0	0	0	20.9	20.9	20.9	20.9	0	0	0	0	0	0	0	0.2	0.5	1.6	0.2
118	3/27/2017	10:47:36	0	0	0	0	20.9	20.9	20.9	20.9	0	0	0	0	0	0	0	0.1	0.6	2.3	0.3
119	3/27/2017	10:57:36	0	0	0	0	20.9	20.9	20.9	20.9	0	0	0	0	0	0	0	0.1	0.4	1.5	0.5
120	3/27/2017	11:07:36	0	0	0	0	20.9	20.9	20.9	20.9	0	0	0	0	0	0	0	0	0.6	2	0.5
121	3/27/2017	11:17:36	0	0	0	0	20.9	20.9	20.9	20.9	0	0	0	0	0	0	0	0.1	1	9.8	0.4
122	3/27/2017	11:27:36	0	0	0	0	20.9	20.9	20.9	20.9	0	0	0	0	0	0	0	0.1	0.4	2.5	0.2
123	3/27/2017	11:37:36	0	0	0	0	20.9	20.9	20.9	20.9	0	0	0	0	0	0	0	0	0.6	2.4	0.3
124	3/27/2017	11:47:36	0	0	0	0	20.9	20.9	20.9	20.9	0	0	0	0	0	0	0	0.1	0.5	1.8	0.2
125	3/27/2017	11:57:36	0	0	0	0	20.9	20.9	20.9	20.9	0	0	0	0	0	0	0	0	0.3	2.1	1.3
126	3/27/2017	12:07:36	0	0	0	0	20.9	20.9	20.9	20.9	0	0	0	0	0	0	0	0.2	0.9	2.8	0.8
127	3/27/2017	12:17:36	0	0	0	0	20.9	20.9	20.9	20.9	0	0	0	0	0	0	0	0.2	0.7	2.4	0.2
128	3/27/2017	12:27:36	0	0	0	0	20.9	20.9	20.9	20.9	0	0	0	0	0	0	0	0.1	0.6	3.7	0.6
Peak			0	0	0	0	20.9	20.9	20.9	20.9	0	0	0	0	0	0	0	0.2	1.2	9.8	1.7
Min			0	0	0	0	20.9	20.9	20.9	20.9	0	0	0	0	0	0	0	0	0	0.1	0
Average			0	0	0	0	20.9	20.9	20.9	20.9	0	0	0	0	0	0	0	0	0.3	1.1	0.2

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TWA/STEL

Index	Date/Time	H2S(ppm)		CO(ppm)		VOC(ppm)	
		(TWA)	(STEL)	(TWA)	(STEL)	(TWA)	(STEL)
1	3/26/2017	15:17:36	0 ---	0 ---	0 ---	0 ---	0 ---

2	3/26/2017	15:27:36	0	0	0	0	0	0.2
3	3/26/2017	15:37:36	0	0	0	0	0	0.2
4	3/26/2017	15:47:36	0	0	0	0	0	0.1
5	3/26/2017	15:57:36	0	0	0	0	0	0.1
6	3/26/2017	16:07:36	0	0	0	0	0	0.1
7	3/26/2017	16:17:36	0	0	0	0	0	0.1
8	3/26/2017	16:27:36	0	0	0	0	0	0.1
9	3/26/2017	16:37:36	0	0	0	0	0	0.1
10	3/26/2017	16:47:36	0	0	0	0	0	0.5
11	3/26/2017	16:57:36	0	0	0	0	0	0.4
12	3/26/2017	17:07:36	0	0	0	0	0	0.1
13	3/26/2017	17:17:36	0	0	0	0	0	0.3
14	3/26/2017	17:27:36	0	0	0	0	0	0.2
15	3/26/2017	17:37:36	0	0	0	0	0	0.1
16	3/26/2017	17:47:36	0	0	0	0	0	0.1
17	3/26/2017	17:57:36	0	0	0	0	0	0.2
18	3/26/2017	18:07:36	0	0	0	0	0	0.2
19	3/26/2017	18:17:36	0	0	0	0	0.1	0.3
20	3/26/2017	18:27:36	0	0	0	0	0.1	0.3
21	3/26/2017	18:37:36	0	0	0	0	0.1	0.1
22	3/26/2017	18:47:36	0	0	0	0	0.1	0.1
23	3/26/2017	18:57:36	0	0	0	0	0.1	0.1
24	3/26/2017	19:07:36	0	0	0	0	0.1	0
25	3/26/2017	19:17:36	0	0	0	0	0.1	0
26	3/26/2017	19:27:36	0	0	0	0	0.1	0.1
27	3/26/2017	19:37:36	0	0	0	0	0.1	0.2
28	3/26/2017	19:47:36	0	0	0	0	0.1	0.2
29	3/26/2017	19:57:36	0	0	0	0	0.1	0.3
30	3/26/2017	20:07:36	0	0	0	0	0.1	0.4
31	3/26/2017	20:17:36	0	0	0	0	0.1	0.3
32	3/26/2017	20:27:36	0	0	0	0	0.1	0.3
33	3/26/2017	20:37:36	0	0	0	0	0.1	0.1
34	3/26/2017	20:47:36	0	0	0	0	0.1	0.1
35	3/26/2017	20:57:36	0	0	0	0	0.1	0
36	3/26/2017	21:07:36	0	0	0	0	0.1	0.1
37	3/26/2017	21:17:36	0	0	0	0	0.1	0.1
38	3/26/2017	21:27:36	0	0	0	0	0.1	0.3
39	3/26/2017	21:37:36	0	0	0	0	0.1	0.3
40	3/26/2017	21:47:36	0	0	0	0	0.1	0.2
41	3/26/2017	21:57:36	0	0	0	0	0.1	0.3
42	3/26/2017	22:07:36	0	0	0	0	0.1	0.1
43	3/26/2017	22:17:36	0	0	0	0	0.1	0.1
44	3/26/2017	22:27:36	0	0	0	0	0.1	0.1
45	3/26/2017	22:37:36	0	0	0	0	0.1	0.1
46	3/26/2017	22:47:36	0	0	0	0	0.1	0
47	3/26/2017	22:57:36	0	0	0	0	0.1	0.1
48	3/26/2017	23:07:36	0	0	0	0	0.1	0.2
49	3/26/2017	23:17:36	0	0	0	0	0.1	0.1
50	3/26/2017	23:27:36	0	0	0	0	0.1	0.1
51	3/26/2017	23:37:36	0	0	0	0	0.1	0.1
52	3/26/2017	23:47:36	0	0	0	0	0.1	0.1
53	3/26/2017	23:57:36	0	0	0	0	0.1	0
54	3/27/2017	0:07:36	0	0	0	0	0.1	0.1
55	3/27/2017	0:17:36	0	0	0	0	0.1	0.1
56	3/27/2017	0:27:36	0	0	0	0	0.1	0.1
57	3/27/2017	0:37:36	0	0	0	0	0.1	0.2
58	3/27/2017	0:47:36	0	0	0	0	0.1	0.1

59	3/27/2017	0:57:36	0	0	0	0	0.1	0.1
60	3/27/2017	1:07:36	0	0	0	0	0.1	0.1
61	3/27/2017	1:17:36	0	0	0	0	0.1	0.2
62	3/27/2017	1:27:36	0	0	0	0	0.1	0.1
63	3/27/2017	1:37:36	0	0	0	0	0.1	0.1
64	3/27/2017	1:47:36	0	0	0	0	0.2	0.1
65	3/27/2017	1:57:36	0	0	0	0	0.2	0.1
66	3/27/2017	2:07:36	0	0	0	0	0.2	0.1
67	3/27/2017	2:17:36	0	0	0	0	0.2	0.3
68	3/27/2017	2:27:36	0	0	0	0	0.2	0.5
69	3/27/2017	2:37:36	0	0	0	0	0.2	0.5
70	3/27/2017	2:47:36	0	0	0	0	0.2	0.3
71	3/27/2017	2:57:36	0	0	0	0	0.2	0.1
72	3/27/2017	3:07:36	0	0	0	0	0.2	0.1
73	3/27/2017	3:17:36	0	0	0	0	0.2	0.2
74	3/27/2017	3:27:36	0	0	0	0	0.2	0.3
75	3/27/2017	3:37:36	0	0	0	0	0.2	0.4
76	3/27/2017	3:47:36	0	0	0	0	0.2	0.5
77	3/27/2017	3:57:36	0	0	0	0	0.2	0.5
78	3/27/2017	4:07:36	0	0	0	0	0.2	0.5
79	3/27/2017	4:17:36	0	0	0	0	0.2	0.5
80	3/27/2017	4:27:36	0	0	0	0	0.2	0.5
81	3/27/2017	4:37:36	0	0	0	0	0.2	0.3
82	3/27/2017	4:47:36	0	0	0	0	0.2	0.1
83	3/27/2017	4:57:36	0	0	0	0	0.2	0.1
84	3/27/2017	5:07:36	0	0	0	0	0.3	0.6
85	3/27/2017	5:17:36	0	0	0	0	0.3	0.9
86	3/27/2017	5:27:36	0	0	0	0	0.3	0.5
87	3/27/2017	5:37:36	0	0	0	0	0.3	0.2
88	3/27/2017	5:47:36	0	0	0	0	0.3	0.2
89	3/27/2017	5:57:36	0	0	0	0	0.3	0.1
90	3/27/2017	6:07:36	0	0	0	0	0.3	0.1
91	3/27/2017	6:17:36	0	0	0	0	0.3	0.1
92	3/27/2017	6:27:36	0	0	0	0	0.3	0.1
93	3/27/2017	6:37:36	0	0	0	0	0.3	0
94	3/27/2017	6:47:36	0	0	0	0	0.3	0.2
95	3/27/2017	6:57:36	0	0	0	0	0.3	0.4
96	3/27/2017	7:07:36	0	0	0	0	0.3	0.2
97	3/27/2017	7:17:36	0	0	0	0	0.3	0.1
98	3/27/2017	7:27:36	0	0	0	0	0.3	1.2
99	3/27/2017	7:37:36	0	0	0	0	0.3	1.3
100	3/27/2017	7:47:36	0	0	0	0	0.3	0.3
101	3/27/2017	7:57:36	0	0	0	0	0.4	1.2
102	3/27/2017	8:07:36	0	0	0	0	0.4	1.3
103	3/27/2017	8:17:36	0	0	0	0	0.4	0.3
104	3/27/2017	8:27:36	0	0	0	0	0.4	0.3
105	3/27/2017	8:37:36	0	0	0	0	0.4	0.6
106	3/27/2017	8:47:36	0	0	0	0	0.4	1.1
107	3/27/2017	8:57:36	0	0	0	0	0.4	0.9
108	3/27/2017	9:07:36	0	0	0	0	0.4	0.4
109	3/27/2017	9:17:36	0	0	0	0	0.4	0.1
110	3/27/2017	9:27:36	0	0	0	0	0.4	0.1
111	3/27/2017	9:37:36	0	0	0	0	0.4	0.1
112	3/27/2017	9:47:36	0	0	0	0	0.5	0.2
113	3/27/2017	9:57:36	0	0	0	0	0.5	0.2
114	3/27/2017	10:07:36	0	0	0	0	0.5	0.3
115	3/27/2017	10:17:36	0	0	0	0	0.5	1.1

116	3/27/2017	10:27:36	0	0	0	0	0.5	1.2
117	3/27/2017	10:37:36	0	0	0	0	0.5	0.4
118	3/27/2017	10:47:36	0	0	0	0	0.5	0.3
119	3/27/2017	10:57:36	0	0	0	0	0.5	0.5
120	3/27/2017	11:07:36	0	0	0	0	0.5	0.7
121	3/27/2017	11:17:36	0	0	0	0	0.5	0.6
122	3/27/2017	11:27:36	0	0	0	0	0.5	0.4
123	3/27/2017	11:37:36	0	0	0	0	0.5	0.3
124	3/27/2017	11:47:36	0	0	0	0	0.6	0.3
125	3/27/2017	11:57:36	0	0	0	0	0.6	1
126	3/27/2017	12:07:36	0	0	0	0	0.6	1.4
127	3/27/2017	12:17:36	0	0	0	0	0.6	0.7
128	3/27/2017	12:27:36	0	0	0	0	0.6	0.5









124	3/21/2017	8:44:35	0	0	0	0	20.9	20.9	20.9	20.9	0	0	0	0	0	0	0	0	0	0	0	0
125	3/21/2017	8:54:35	0	0	0	0	20.9	20.9	20.9	20.9	0	0	0	0	0	0	0	0	0	0	0	0
126	3/21/2017	9:04:35	0	0	0	0	20.9	20.9	20.9	20.9	0	0	0	0	0	0	0	0	0	0	0	0
127	3/21/2017	9:14:35	0	0	0	0	20.9	20.9	20.9	20.9	0	0	0	0	0	0	0	0	0	0	0	0
128	3/21/2017	9:24:35	0	0	0	0	20.9	20.9	20.9	20.9	0	0	0	0	0	0	0	0	0	0	0	0
129	3/21/2017	9:34:35	0	0	0	0	20.9	20.9	20.9	20.9	0	0	0	0	0	0	0	0	0	0	0	0
130	3/21/2017	9:44:35	0	0	0	0	20.9	20.9	20.9	20.9	0	0	0	0	0	0	0	0	0	0	0	0
131	3/21/2017	9:54:35	0	0	0	0	20.9	20.9	20.9	20.9	0	0	0	0	0	0	0	0	0	0	0	0
132	3/21/2017	10:04:35	0	0	0	0	20.9	20.9	20.9	20.9	0	0	0	0	0	0	0	0	0	0	0	0
133	3/21/2017	10:14:35	0	0	0	0	20.9	20.9	20.9	20.9	0	0	0	0	0	0	0	0	0	0	0	0
134	3/21/2017	10:24:35	0	0	0	0	20.9	20.9	20.9	20.9	0	0	0	0	0	0	0	0	0	0	0	0
135	3/21/2017	10:34:35	0	0	0	0	20.9	20.9	20.9	20.9	0	0	0	0	0	0	0	0	0	0	0	0
136	3/21/2017	10:44:35	0	0	0	0	20.9	20.9	21.3	21.3	0	0	0	0	0	0	0	0	0	0	0	0
137	3/21/2017	10:54:35	0	0	0	0	21.2	21.2	21.3	21.3	0	0	0	0	0	0	0	0	0	0	0	0
138	3/21/2017	11:04:35	0	0	0	0	21.3	21.3	21.3	21.3	0	0	0	0	0	0	0	0	0	0	0	0
139	3/21/2017	11:14:35	0	0	0	0	21.3	21.3	21.3	21.3	0	0	0	0	0	0	0	0	0	0	0	0
140	3/21/2017	11:24:35	0	0	0	0	21.3	21.3	21.3	21.3	0	0	0	0	0	0	0	0	0	0	0	0
141	3/21/2017	11:34:35	0	0	0	0	21.3	21.3	21.3	21.3	0	0	0	0	0	0	0	0	0	0	0	0
142	3/21/2017	11:44:35	0	0	0	0	21.3	21.3	21.4	21.4	0	0	0	0	0	0	0	0	0	0	0	0
143	3/21/2017	11:54:35	0	0	0	0	21.3	21.3	21.4	21.4	0	0	0	0	0	0	0	0	0	0	0	0
144	3/21/2017	12:04:35	0	0	0	0	21.4	21.4	21.4	21.4	0	0	0	0	0	0	0	0	0	0	0	0
Peak			0	0	0	0	21.4	21.4	21.4	21.4	0	0	0	0	0	0	0	0	0	0.5	3.6	1.1
Min			0	0	0	0	20.9	20.9	20.9	20.9	0	0	0	0	0	0	0	0	0	0	0	0
Average			0	0	0	0	21.1	21.1	21.1	21.1	0	0	0	0	0	0	0	0	0	0	0.1	0

\*\*\*\*\*

TWA/STEL

Index	Date/Time	H2S(ppm)		CO(ppm)		VOC(ppm)	
		(TWA)	(STEL)	(TWA)	(STEL)	(TWA)	(STEL)
1	3/20/2017 12:14:35	0	---	0	---	0	---
2	3/20/2017 12:24:35	0	0	0	0	0	0
3	3/20/2017 12:34:35	0	0	0	0	0	0
4	3/20/2017 12:44:35	0	0	0	0	0	0
5	3/20/2017 12:54:35	0	0	0	0	0	0
6	3/20/2017 13:04:35	0	0	0	0	0	0
7	3/20/2017 13:14:35	0	0	0	0	0	0
8	3/20/2017 13:24:35	0	0	0	0	0	0
9	3/20/2017 13:34:35	0	0	0	0	0	0
10	3/20/2017 13:44:35	0	0	0	0	0	0
11	3/20/2017 13:54:35	0	0	0	0	0	0
12	3/20/2017 14:04:35	0	0	0	0	0	0
13	3/20/2017 14:14:35	0	0	0	0	0	0
14	3/20/2017 14:24:35	0	0	0	0	0	0
15	3/20/2017 14:34:35	0	0	0	0	0	0
16	3/20/2017 14:44:35	0	0	0	0	0	0
17	3/20/2017 14:54:35	0	0	0	0	0	0
18	3/20/2017 15:04:35	0	0	0	0	0	0
19	3/20/2017 15:14:35	0	0	0	0	0	0
20	3/20/2017 15:24:35	0	0	0	0	0	0
21	3/20/2017 15:34:35	0	0	0	0	0	0
22	3/20/2017 15:44:35	0	0	0	0	0	0
23	3/20/2017 15:54:35	0	0	0	0	0	0
24	3/20/2017 16:04:35	0	0	0	0	0	0
25	3/20/2017 16:14:35	0	0	0	0	0	0
26	3/20/2017 16:24:35	0	0	0	0	0	0

27	3/20/2017	16:34:35	0	0	0	0	0	0
28	3/20/2017	16:44:35	0	0	0	0	0	0
29	3/20/2017	16:54:35	0	0	0	0	0	0
30	3/20/2017	17:04:35	0	0	0	0	0	0
31	3/20/2017	17:14:35	0	0	0	0	0	0
32	3/20/2017	17:24:35	0	0	0	0	0	0
33	3/20/2017	17:34:35	0	0	0	0	0	0
34	3/20/2017	17:44:35	0	0	0	0	0	0
35	3/20/2017	17:54:35	0	0	0	0	0	0
36	3/20/2017	18:04:35	0	0	0	0	0	0
37	3/20/2017	18:14:35	0	0	0	0	0	0
38	3/20/2017	18:24:35	0	0	0	0	0	0
39	3/20/2017	18:34:35	0	0	0	0	0	0
40	3/20/2017	18:44:35	0	0	0	0	0	0
41	3/20/2017	18:54:35	0	0	0	0	0	0
42	3/20/2017	19:04:35	0	0	0	0	0	0
43	3/20/2017	19:14:35	0	0	0	0	0	0
44	3/20/2017	19:24:35	0	0	0	0	0	0
45	3/20/2017	19:34:35	0	0	0	0	0	0
46	3/20/2017	19:44:35	0	0	0	0	0	0
47	3/20/2017	19:54:35	0	0	0	0	0	0
48	3/20/2017	20:04:35	0	0	0	0	0	0
49	3/20/2017	20:14:35	0	0	0	0	0	0
50	3/20/2017	20:24:35	0	0	0	0	0	0
51	3/20/2017	20:34:35	0	0	0	0	0	0
52	3/20/2017	20:44:35	0	0	0	0	0	0
53	3/20/2017	20:54:35	0	0	0	0	0	0
54	3/20/2017	21:04:35	0	0	0	0	0	0
55	3/20/2017	21:14:35	0	0	0	0	0	0
56	3/20/2017	21:24:35	0	0	0	0	0	0
57	3/20/2017	21:34:35	0	0	0	0	0	0
58	3/20/2017	21:44:35	0	0	0	0	0	0
59	3/20/2017	21:54:35	0	0	0	0	0	0
60	3/20/2017	22:04:35	0	0	0	0	0	0
61	3/20/2017	22:14:35	0	0	0	0	0	0
62	3/20/2017	22:24:35	0	0	0	0	0	0
63	3/20/2017	22:34:35	0	0	0	0	0	0
64	3/20/2017	22:44:35	0	0	0	0	0	0
65	3/20/2017	22:54:35	0	0	0	0	0	0
66	3/20/2017	23:04:35	0	0	0	0	0	0
67	3/20/2017	23:14:35	0	0	0	0	0	0
68	3/20/2017	23:24:35	0	0	0	0	0	0
69	3/20/2017	23:34:35	0	0	0	0	0	0
70	3/20/2017	23:44:35	0	0	0	0	0	0
71	3/20/2017	23:54:35	0	0	0	0	0	0
72	3/21/2017	0:04:35	0	0	0	0	0	0
73	3/21/2017	0:14:35	0	0	0	0	0	0
74	3/21/2017	0:24:35	0	0	0	0	0	0
75	3/21/2017	0:34:35	0	0	0	0	0	0
76	3/21/2017	0:44:35	0	0	0	0	0	0
77	3/21/2017	0:54:35	0	0	0	0	0	0
78	3/21/2017	1:04:35	0	0	0	0	0	0
79	3/21/2017	1:14:35	0	0	0	0	0	0
80	3/21/2017	1:24:35	0	0	0	0	0	0
81	3/21/2017	1:34:35	0	0	0	0	0	0

82	3/21/2017	1:44:35	0	0	0	0	0	0
83	3/21/2017	1:54:35	0	0	0	0	0	0
84	3/21/2017	2:04:35	0	0	0	0	0	0
85	3/21/2017	2:14:35	0	0	0	0	0	0
86	3/21/2017	2:24:35	0	0	0	0	0	0
87	3/21/2017	2:34:35	0	0	0	0	0	0
88	3/21/2017	2:44:35	0	0	0	0	0	0
89	3/21/2017	2:54:35	0	0	0	0	0	0
90	3/21/2017	3:04:35	0	0	0	0	0	0
91	3/21/2017	3:14:35	0	0	0	0	0	0
92	3/21/2017	3:24:35	0	0	0	0	0	0
93	3/21/2017	3:34:35	0	0	0	0	0	0
94	3/21/2017	3:44:35	0	0	0	0	0	0
95	3/21/2017	3:54:35	0	0	0	0	0	0
96	3/21/2017	4:04:35	0	0	0	0	0	0
97	3/21/2017	4:14:35	0	0	0	0	0	0
98	3/21/2017	4:24:35	0	0	0	0	0	0
99	3/21/2017	4:34:35	0	0	0	0	0	0
100	3/21/2017	4:44:35	0	0	0	0	0	0
101	3/21/2017	4:54:35	0	0	0	0	0	0.7
102	3/21/2017	5:04:35	0	0	0	0	0	1.1
103	3/21/2017	5:14:35	0	0	0	0	0	0.3
104	3/21/2017	5:24:35	0	0	0	0	0	0
105	3/21/2017	5:34:35	0	0	0	0	0	0
106	3/21/2017	5:44:35	0	0	0	0	0	0
107	3/21/2017	5:54:35	0	0	0	0	0	0
108	3/21/2017	6:04:35	0	0	0	0	0	0
109	3/21/2017	6:14:35	0	0	0	0	0	0
110	3/21/2017	6:24:35	0	0	0	0	0	0
111	3/21/2017	6:34:35	0	0	0	0	0	0
112	3/21/2017	6:44:35	0	0	0	0	0	0
113	3/21/2017	6:54:35	0	0	0	0	0	0
114	3/21/2017	7:04:35	0	0	0	0	0	0
115	3/21/2017	7:14:35	0	0	0	0	0	0.1
116	3/21/2017	7:24:35	0	0	0	0	0	0.1
117	3/21/2017	7:34:35	0	0	0	0	0	0
118	3/21/2017	7:44:35	0	0	0	0	0	0
119	3/21/2017	7:54:35	0	0	0	0	0	0
120	3/21/2017	8:04:35	0	0	0	0	0	0
121	3/21/2017	8:14:35	0	0	0	0	0	0
122	3/21/2017	8:24:35	0	0	0	0	0	0
123	3/21/2017	8:34:35	0	0	0	0	0	0
124	3/21/2017	8:44:35	0	0	0	0	0	0
125	3/21/2017	8:54:35	0	0	0	0	0	0
126	3/21/2017	9:04:35	0	0	0	0	0	0
127	3/21/2017	9:14:35	0	0	0	0	0	0
128	3/21/2017	9:24:35	0	0	0	0	0	0
129	3/21/2017	9:34:35	0	0	0	0	0	0
130	3/21/2017	9:44:35	0	0	0	0	0	0
131	3/21/2017	9:54:35	0	0	0	0	0	0
132	3/21/2017	10:04:35	0	0	0	0	0	0
133	3/21/2017	10:14:35	0	0	0	0	0	0
134	3/21/2017	10:24:35	0	0	0	0	0	0
135	3/21/2017	10:34:35	0	0	0	0	0	0
136	3/21/2017	10:44:35	0	0	0	0	0	0









116	3/22/2017	7:24:35	0	0	0	0	20.9	20.9	20.9	20.9	0	0	0	0	0	0	0	0	0	0.3	5.5	0.3
117	3/22/2017	7:34:35	0	0	0	0	20.9	20.9	20.9	20.9	0	0	0	0	0	0	0	0	0	0.5	4.2	1.3
118	3/22/2017	7:44:35	0	0	0	0	20.9	20.9	20.9	20.9	0	0	0	0	0	0	0	0	0	0.4	3.6	0
119	3/22/2017	7:54:35	0	0	0	0	20.9	20.9	20.9	20.9	0	0	0	0	0	0	0	0	0	0.4	2.3	0.5
120	3/22/2017	8:04:35	0	0	0	0	20.9	20.9	20.9	20.9	0	0	0	0	0	0	0	0	0	0.4	3	3
121	3/22/2017	8:14:35	0	0	0	0	20.9	20.9	20.9	20.9	0	0	0	0	0	0	0	0	0	0.2	3.9	0
122	3/22/2017	8:24:35	0	0	0	0	20.9	20.9	20.9	20.9	0	0	0	0	0	0	0	0	0	0.3	1.5	0
123	3/22/2017	8:34:35	0	0	0	0	20.9	20.9	20.9	20.9	0	0	0	0	0	0	0	0	0	0.1	1.5	0.2
124	3/22/2017	8:44:35	0	0	0	0	20.9	20.9	20.9	20.9	0	0	0	0	0	0	0	0	0	0.3	1.9	0
125	3/22/2017	8:54:35	0	0	0	0	20.9	20.9	20.9	20.9	0	0	0	0	0	0	0	0	0	0.9	4.2	2.3
126	3/22/2017	9:04:35	0	0	0	0	20.9	20.9	20.9	20.9	0	0	0	0	0	0	0	0	0	0.7	3.1	0.6
127	3/22/2017	9:14:35	0	0	0	0	20.9	20.9	20.9	20.9	0	0	0	0	0	0	0	0	0	0.2	2.5	0
128	3/22/2017	9:24:35	0	0	0	0	20.9	20.9	20.9	20.9	0	0	0	0	0	0	0	0	0	0.2	1.8	0.8
129	3/22/2017	9:34:35	0	0	0	0	20.9	20.9	20.9	20.9	0	0	0	0	0	0	0	0	0	0.1	1.3	0.1
130	3/22/2017	9:44:35	0	0	0	0	20.9	20.9	20.9	20.9	0	0	0	0	0	0	0	0	0	0.2	1	0
131	3/22/2017	9:54:35	0	0	0	0	20.9	20.9	20.9	20.9	0	0	0	0	0	0	0	0	0	0.1	1.5	0
132	3/22/2017	10:04:35	0	0	0	0	20.9	20.9	20.9	20.9	0	0	0	0	0	0	0	0	0	0.2	1.6	0
133	3/22/2017	10:14:35	0	0	0	0	20.9	20.9	20.9	20.9	0	0	0	0	0	0	0	0	0	0.4	2.1	0.1
134	3/22/2017	10:24:35	0	0	0	0	20.9	20.9	20.9	20.9	0	0	0	0	0	0	0	0	0	0.3	2.6	0
135	3/22/2017	10:34:35	0	0	0	0	20.9	20.9	20.9	20.9	0	0	0	0	0	0	0	0	0	0.3	2.2	0.1
136	3/22/2017	10:44:35	0	0	0	0	20.9	20.9	20.9	20.9	0	0	0	0	0	0	0	0	0	0.6	1.9	0.4
137	3/22/2017	10:54:35	0	0	0	0	20.9	20.9	20.9	20.9	0	0	0	0	0	0	0	0	0	0.4	3.4	1.2
138	3/22/2017	11:04:35	0	0	0	0	20.9	20.9	20.9	20.9	0	0	0	0	0	0	0	0	0	0.6	3.6	0
139	3/22/2017	11:14:35	0	0	0	0	20.9	20.9	20.9	20.9	0	0	0	0	0	0	0	0	0	0.1	1.6	0
140	3/22/2017	11:24:35	0	0	0	0	20.9	21	21.4	21.1	0	0	0	0	0	0	0	0	0	0.3	2	0
141	3/22/2017	11:34:35	0	0	0	0	21.1	21.1	21.2	21.1	0	0	0	0	0	0	0	0	0	0.1	1.9	0.2
142	3/22/2017	11:44:35	0	0	0	0	21.1	21.1	21.2	21.2	0	0	0	0	0	0	0	0	0	0.3	2.1	0
143	3/22/2017	11:54:35	0	0	0	0	21.1	21.1	21.2	21.2	0	0	0	0	0	0	0	0	0	0.7	3.2	0.9
144	3/22/2017	12:04:35	0	0	0	0	21.1	21.1	21.2	21.1	0	0	0	0	0	0	0	0	0	0.4	4.6	0.1
Peak			0	0	0	0	21.5	21.5	21.5	21.5	0	0	0	0	0	0	0	0	0	1.4	5.5	3
Min			0	0	0	0	20.9	20.9	20.9	20.9	0	0	0	0	0	0	0	0	0	0	0	0
Average			0	0	0	0	21.1	21.1	21.2	21.1	0	0	0	0	0	0	0	0	0	0.1	0.8	0.1

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TWA/STEL

Index	Date/Time	H2S(ppm)		CO(ppm)		VOC(ppm)	
		(TWA)	(STEL)	(TWA)	(STEL)	(TWA)	(STEL)
1	3/21/2017 12:14:35	0	---	0	---	0	---
2	3/21/2017 12:24:35	0	0	0	0	0	0
3	3/21/2017 12:34:35	0	0	0	0	0	0
4	3/21/2017 12:44:35	0	0	0	0	0	0
5	3/21/2017 12:54:35	0	0	0	0	0	0
6	3/21/2017 13:04:35	0	0	0	0	0	0
7	3/21/2017 13:14:35	0	0	0	0	0	0
8	3/21/2017 13:24:35	0	0	0	0	0	0
9	3/21/2017 13:34:35	0	0	0	0	0	0
10	3/21/2017 13:44:35	0	0	0	0	0	0
11	3/21/2017 13:54:35	0	0	0	0	0	0
12	3/21/2017 14:04:35	0	0	0	0	0	0
13	3/21/2017 14:14:35	0	0	0	0	0	0
14	3/21/2017 14:24:35	0	0	0	0	0	0
15	3/21/2017 14:34:35	0	0	0	0	0	0
16	3/21/2017 14:44:35	0	0	0	0	0	0
17	3/21/2017 14:54:35	0	0	0	0	0	0
18	3/21/2017 15:04:35	0	0	0	0	0	0

19	3/21/2017	15:14:35	0	0	0	0	0	0
20	3/21/2017	15:24:35	0	0	0	0	0	0
21	3/21/2017	15:34:35	0	0	0	0	0	0
22	3/21/2017	15:44:35	0	0	0	0	0	0
23	3/21/2017	15:54:35	0	0	0	0	0	0
24	3/21/2017	16:04:35	0	0	0	0	0	0
25	3/21/2017	16:14:35	0	0	0	0	0	0
26	3/21/2017	16:24:35	0	0	0	0	0	0
27	3/21/2017	16:34:35	0	0	0	0	0	0
28	3/21/2017	16:44:35	0	0	0	0	0	0
29	3/21/2017	16:54:35	0	0	0	0	0	0
30	3/21/2017	17:04:35	0	0	0	0	0	0
31	3/21/2017	17:14:35	0	0	0	0	0	0
32	3/21/2017	17:24:35	0	0	0	0	0	0
33	3/21/2017	17:34:35	0	0	0	0	0	0
34	3/21/2017	17:44:35	0	0	0	0	0	0
35	3/21/2017	17:54:35	0	0	0	0	0	0
36	3/21/2017	18:04:35	0	0	0	0	0	0
37	3/21/2017	18:14:35	0	0	0	0	0	0
38	3/21/2017	18:24:35	0	0	0	0	0	0
39	3/21/2017	18:34:35	0	0	0	0	0	0
40	3/21/2017	18:44:35	0	0	0	0	0.1	1.6
41	3/21/2017	18:54:35	0	0	0	0	0.1	1.6
42	3/21/2017	19:04:35	0	0	0	0	0.1	0
43	3/21/2017	19:14:35	0	0	0	0	0.1	0
44	3/21/2017	19:24:35	0	0	0	0	0.1	0
45	3/21/2017	19:34:35	0	0	0	0	0.1	0
46	3/21/2017	19:44:35	0	0	0	0	0.1	0
47	3/21/2017	19:54:35	0	0	0	0	0.1	0
48	3/21/2017	20:04:35	0	0	0	0	0.1	0
49	3/21/2017	20:14:35	0	0	0	0	0.1	0
50	3/21/2017	20:24:35	0	0	0	0	0.1	0
51	3/21/2017	20:34:35	0	0	0	0	0.1	0
52	3/21/2017	20:44:35	0	0	0	0	0.1	0
53	3/21/2017	20:54:35	0	0	0	0	0.1	0
54	3/21/2017	21:04:35	0	0	0	0	0.1	0
55	3/21/2017	21:14:35	0	0	0	0	0.1	0
56	3/21/2017	21:24:35	0	0	0	0	0.1	0
57	3/21/2017	21:34:35	0	0	0	0	0.1	0
58	3/21/2017	21:44:35	0	0	0	0	0.1	0
59	3/21/2017	21:54:35	0	0	0	0	0.1	0
60	3/21/2017	22:04:35	0	0	0	0	0.1	0
61	3/21/2017	22:14:35	0	0	0	0	0.1	0
62	3/21/2017	22:24:35	0	0	0	0	0.1	0
63	3/21/2017	22:34:35	0	0	0	0	0.1	0
64	3/21/2017	22:44:35	0	0	0	0	0.1	0
65	3/21/2017	22:54:35	0	0	0	0	0.1	0
66	3/21/2017	23:04:35	0	0	0	0	0.1	0
67	3/21/2017	23:14:35	0	0	0	0	0.1	0
68	3/21/2017	23:24:35	0	0	0	0	0.1	0
69	3/21/2017	23:34:35	0	0	0	0	0.1	0
70	3/21/2017	23:44:35	0	0	0	0	0.1	0
71	3/21/2017	23:54:35	0	0	0	0	0.1	0
72	3/22/2017	0:04:35	0	0	0	0	0.1	0
73	3/22/2017	0:14:35	0	0	0	0	0.1	0

74	3/22/2017	0:24:35	0	0	0	0	0.1	0
75	3/22/2017	0:34:35	0	0	0	0	0.1	0
76	3/22/2017	0:44:35	0	0	0	0	0.1	0
77	3/22/2017	0:54:35	0	0	0	0	0.1	0
78	3/22/2017	1:04:35	0	0	0	0	0.1	0
79	3/22/2017	1:14:35	0	0	0	0	0.1	0
80	3/22/2017	1:24:35	0	0	0	0	0.1	0
81	3/22/2017	1:34:35	0	0	0	0	0.1	0
82	3/22/2017	1:44:35	0	0	0	0	0.1	0
83	3/22/2017	1:54:35	0	0	0	0	0.1	0
84	3/22/2017	2:04:35	0	0	0	0	0.1	0
85	3/22/2017	2:14:35	0	0	0	0	0.1	0
86	3/22/2017	2:24:35	0	0	0	0	0.1	0
87	3/22/2017	2:34:35	0	0	0	0	0.1	0
88	3/22/2017	2:44:35	0	0	0	0	0.1	0
89	3/22/2017	2:54:35	0	0	0	0	0.1	0
90	3/22/2017	3:04:35	0	0	0	0	0.1	0
91	3/22/2017	3:14:35	0	0	0	0	0.1	0
92	3/22/2017	3:24:35	0	0	0	0	0.1	0
93	3/22/2017	3:34:35	0	0	0	0	0.1	0.2
94	3/22/2017	3:44:35	0	0	0	0	0.1	0.7
95	3/22/2017	3:54:35	0	0	0	0	0.1	0.5
96	3/22/2017	4:04:35	0	0	0	0	0.1	0
97	3/22/2017	4:14:35	0	0	0	0	0.1	0
98	3/22/2017	4:24:35	0	0	0	0	0.1	0
99	3/22/2017	4:34:35	0	0	0	0	0.1	0
100	3/22/2017	4:44:35	0	0	0	0	0.1	0
101	3/22/2017	4:54:35	0	0	0	0	0.1	0
102	3/22/2017	5:04:35	0	0	0	0	0.1	0
103	3/22/2017	5:14:35	0	0	0	0	0.1	0
104	3/22/2017	5:24:35	0	0	0	0	0.1	0
105	3/22/2017	5:34:35	0	0	0	0	0.1	0
106	3/22/2017	5:44:35	0	0	0	0	0.1	0.2
107	3/22/2017	5:54:35	0	0	0	0	0.1	0.2
108	3/22/2017	6:04:35	0	0	0	0	0.1	0
109	3/22/2017	6:14:35	0	0	0	0	0.1	0
110	3/22/2017	6:24:35	0	0	0	0	0.1	0
111	3/22/2017	6:34:35	0	0	0	0	0.1	0.9
112	3/22/2017	6:44:35	0	0	0	0	0.1	0.9
113	3/22/2017	6:54:35	0	0	0	0	0.1	0
114	3/22/2017	7:04:35	0	0	0	0	0.1	0
115	3/22/2017	7:14:35	0	0	0	0	0.1	0
116	3/22/2017	7:24:35	0	0	0	0	0.1	0.2
117	3/22/2017	7:34:35	0	0	0	0	0.1	1.1
118	3/22/2017	7:44:35	0	0	0	0	0.1	0.9
119	3/22/2017	7:54:35	0	0	0	0	0.1	0.3
120	3/22/2017	8:04:35	0	0	0	0	0.2	2.3
121	3/22/2017	8:14:35	0	0	0	0	0.2	2
122	3/22/2017	8:24:35	0	0	0	0	0.2	0
123	3/22/2017	8:34:35	0	0	0	0	0.2	0.1
124	3/22/2017	8:44:35	0	0	0	0	0.2	0.1
125	3/22/2017	8:54:35	0	0	0	0	0.3	1.5
126	3/22/2017	9:04:35	0	0	0	0	0.3	1.9
127	3/22/2017	9:14:35	0	0	0	0	0.3	0.4
128	3/22/2017	9:24:35	0	0	0	0	0.3	0.5

129	3/22/2017	9:34:35	0	0	0	0	0.3	0.6
130	3/22/2017	9:44:35	0	0	0	0	0.3	0.1
131	3/22/2017	9:54:35	0	0	0	0	0.3	0
132	3/22/2017	10:04:35	0	0	0	0	0.3	0
133	3/22/2017	10:14:35	0	0	0	0	0.3	0.1
134	3/22/2017	10:24:35	0	0	0	0	0.3	0.1
135	3/22/2017	10:34:35	0	0	0	0	0.3	0.1
136	3/22/2017	10:44:35	0	0	0	0	0.3	0.3
137	3/22/2017	10:54:35	0	0	0	0	0.3	1.1
138	3/22/2017	11:04:35	0	0	0	0	0.3	0.8
139	3/22/2017	11:14:35	0	0	0	0	0.3	0
140	3/22/2017	11:24:35	0	0	0	0	0.3	0
141	3/22/2017	11:34:35	0	0	0	0	0.3	0.1
142	3/22/2017	11:44:35	0	0	0	0	0.3	0.1
143	3/22/2017	11:54:35	0	0	0	0	0.4	0.6
144	3/22/2017	12:04:35	0	0	0	0	0.4	0.7

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17/03/22 12:04  
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Summary

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Unit Name MultiRAE(PGM-6228)  
Unit SN MBB3Z187P8  
Unit Firmware Ver V1.10  
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Running Mode Hygiene Mode  
Datalog Mode Auto  
Diagnostic Mode No  
Stop Reason Schedule Stop  
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Site ID 66  
User ID 0  
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Begin 3/22/2017 12:04:35  
End 3/23/2017 12:04:35  
Sample Period(s) 600  
Number of Records 144  
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Sensor	SN	LEL(%LEL)	OXY(%)	H2S(ppm)	CO(ppm)	VOC(ppm)															
SC0311047	SC0342058	SC03AR01	SC0306024	SC03A40162Q8																	
Measure	Type	Min	Avg	Max	Real	Min	Avg	Max	Real	Min	Avg	Max	Real	Min	Avg	Max	Real	Min	Avg	Max	Real
Span		50	18	1	50	10															
Span	2	N/A	N/A	N/A	N/A	1000															
Low	Alarm	10	19.5	10	50	50															
High	Alarm	20	23.5	20	50	100															
Over	Alarm	100	30	100	500	5000															
STEL	Alarm	N/A	N/A	15	100	25															
TWA	Alarm	N/A	N/A	10	35	10															
Measurem Gas(CF)	Methane(1N/A	N/A	N/A	Isobutylene(1.00)																	
Calibration Time	3/2/2017	11:08	3/2/2017	11:08	3/2/2017	11:12	3/2/2017	11:08	3/2/2017	11:10											
Peak		0	21.3	0	0	2.8															
Min		0	20.9	0	0	0															
Average		0	21.1	0	0	0.2															

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53	3/22/2017	20:54:35	0	0	0	0	21.1	21.1	21.2	21.2	0	0	0	0	0	0	0	0	0	0	0.1	0	
54	3/22/2017	21:04:35	0	0	0	0	21.2	21.2	21.2	21.2	0	0	0	0	0	0	0	0	0	0	0	0	
55	3/22/2017	21:14:35	0	0	0	0	21.1	21.1	21.2	21.1	0	0	0	0	0	0	0	0	0	0	0	0	
56	3/22/2017	21:24:35	0	0	0	0	21.1	21.1	21.2	21.1	0	0	0	0	0	0	0	0	0	0	0	0	
57	3/22/2017	21:34:35	0	0	0	0	21.1	21.1	21.2	21.2	0	0	0	0	0	0	0	0	0	0	0	0	
58	3/22/2017	21:44:35	0	0	0	0	21.1	21.1	21.2	21.2	0	0	0	0	0	0	0	0	0	0	0	0	
59	3/22/2017	21:54:35	0	0	0	0	21.1	21.1	21.2	21.1	0	0	0	0	0	0	0	0	0	0	0	0	
60	3/22/2017	22:04:35	0	0	0	0	21.1	21.1	21.1	21.1	0	0	0	0	0	0	0	0	0	0	0	0	
61	3/22/2017	22:14:35	0	0	0	0	21.1	21.1	21.1	21.1	0	0	0	0	0	0	0	0	0	0	0	0	
62	3/22/2017	22:24:35	0	0	0	0	21.1	21.1	21.2	21.1	0	0	0	0	0	0	0	0	0	0	0	0	
63	3/22/2017	22:34:35	0	0	0	0	21.1	21.1	21.1	21.1	0	0	0	0	0	0	0	0	0	0	0	0	
64	3/22/2017	22:44:35	0	0	0	0	21.1	21.1	21.1	21.1	0	0	0	0	0	0	0	0	0	0	0	0	
65	3/22/2017	22:54:35	0	0	0	0	21.1	21.1	21.1	21.1	0	0	0	0	0	0	0	0	0	0	0	0	
66	3/22/2017	23:04:35	0	0	0	0	21.1	21.1	21.1	21.1	0	0	0	0	0	0	0	0	0	0	1.2	4.7	0.1
67	3/22/2017	23:14:35	0	0	0	0	21.1	21.1	21.1	21.1	0	0	0	0	0	0	0	0	0	0	0.4	4.2	1.2
68	3/22/2017	23:24:35	0	0	0	0	21.1	21.1	21.1	21.1	0	0	0	0	0	0	0	0	0	0	0.5	2.7	2.7
69	3/22/2017	23:34:35	0	0	0	0	21.1	21.1	21.1	21.1	0	0	0	0	0	0	0	0	0	0	0.4	2.8	0
70	3/22/2017	23:44:35	0	0	0	0	21.1	21.1	21.1	21.1	0	0	0	0	0	0	0	0	0	0	0	0.1	0
71	3/22/2017	23:54:35	0	0	0	0	21.1	21.1	21.1	21.1	0	0	0	0	0	0	0	0	0	0	0.3	2.6	0.3
72	3/23/2017	0:04:35	0	0	0	0	21.1	21.1	21.1	21.1	0	0	0	0	0	0	0	0	0	0	1	5.4	1.8
73	3/23/2017	0:14:35	0	0	0	0	21.1	21.1	21.1	21.1	0	0	0	0	0	0	0	0	0	0	0.3	1.8	0
74	3/23/2017	0:24:35	0	0	0	0	21.1	21.1	21.1	21.1	0	0	0	0	0	0	0	0	0	0	0.7	3	0.5
75	3/23/2017	0:34:35	0	0	0	0	21.1	21.1	21.1	21.1	0	0	0	0	0	0	0	0	0	0	0.4	2.1	0
76	3/23/2017	0:44:35	0	0	0	0	21.1	21.1	21.1	21.1	0	0	0	0	0	0	0	0	0	0	0.6	3.5	1.2
77	3/23/2017	0:54:35	0	0	0	0	21.1	21.1	21.1	21.1	0	0	0	0	0	0	0	0	0	0	0.5	2	0.3
78	3/23/2017	1:04:35	0	0	0	0	21.1	21.1	21.1	21.1	0	0	0	0	0	0	0	0	0	0	0.5	2.6	2.6
79	3/23/2017	1:14:35	0	0	0	0	21.1	21.1	21.1	21.1	0	0	0	0	0	0	0	0	0	0	1	5.5	0.6
80	3/23/2017	1:24:35	0	0	0	0	21.1	21.1	21.1	21.1	0	0	0	0	0	0	0	0	0	0	0.6	3.9	2.8
81	3/23/2017	1:34:35	0	0	0	0	21.1	21.1	21.1	21.1	0	0	0	0	0	0	0	0	0	0	0.5	4.6	0.5
82	3/23/2017	1:44:35	0	0	0	0	21.1	21.1	21.1	21.1	0	0	0	0	0	0	0	0	0	0	0.7	4.6	0
83	3/23/2017	1:54:35	0	0	0	0	21.1	21.1	21.1	21.1	0	0	0	0	0	0	0	0	0	0	0.6	3.4	0.8
84	3/23/2017	2:04:35	0	0	0	0	21.1	21.1	21.1	21.1	0	0	0	0	0	0	0	0	0	0	1	6.2	0.9
85	3/23/2017	2:14:35	0	0	0	0	21.1	21.1	21.1	21.1	0	0	0	0	0	0	0	0	0	0	0.5	5.1	1.6
86	3/23/2017	2:24:35	0	0	0	0	21.1	21.1	21.1	21.1	0	0	0	0	0	0	0	0	0	0	0.2	1.6	0.8
87	3/23/2017	2:34:35	0	0	0	0	21.1	21.1	21.1	21.1	0	0	0	0	0	0	0	0	0	0	0.6	3.6	0.2
88	3/23/2017	2:44:35	0	0	0	0	21.1	21.1	21.1	21.1	0	0	0	0	0	0	0	0	0	0	0.4	2.4	0.4
89	3/23/2017	2:54:35	0	0	0	0	21.1	21.1	21.1	21.1	0	0	0	0	0	0	0	0	0	0	1.1	5.4	0.2
90	3/23/2017	3:04:35	0	0	0	0	21.1	21.1	21.1	21.1	0	0	0	0	0	0	0	0	0	0	0.4	1.9	0
91	3/23/2017	3:14:35	0	0	0	0	21.1	21.1	21.1	21.1	0	0	0	0	0	0	0	0	0	0	0.6	4.7	1.1
92	3/23/2017	3:24:35	0	0	0	0	21.1	21.1	21.1	21.1	0	0	0	0	0	0	0	0	0	0	0.8	4.4	0.6
93	3/23/2017	3:34:35	0	0	0	0	21.1	21.1	21.1	21.1	0	0	0	0	0	0	0	0	0	0	0.7	4.3	1.2
94	3/23/2017	3:44:35	0	0	0	0	21.1	21.1	21.1	21.1	0	0	0	0	0	0	0	0	0	0	0.6	2.9	1
95	3/23/2017	3:54:35	0	0	0	0	21.1	21.1	21.1	21.1	0	0	0	0	0	0	0	0	0	0	0.5	4.2	0.2
96	3/23/2017	4:04:35	0	0	0	0	21.1	21.1	21.1	21.1	0	0	0	0	0	0	0	0	0	0	0.3	2.5	0
97	3/23/2017	4:14:35	0	0	0	0	21.1	21.1	21.1	21.1	0	0	0	0	0	0	0	0	0	0	0.3	3.6	0.5
98	3/23/2017	4:24:35	0	0	0	0	21.1	21.1	21.1	21.1	0	0	0	0	0	0	0	0	0	0	0.5	3.3	0
99	3/23/2017	4:34:35	0	0	0	0	21.1	21.1	21.2	21.1	0	0	0	0	0	0	0	0	0	0	0.2	3.2	0.1
100	3/23/2017	4:44:35	0	0	0	0	21.1	21.1	21.1	21.1	0	0	0	0	0	0	0	0	0	0	0.5	2.9	0.2
101	3/23/2017	4:54:35	0	0	0	0	21.1	21.1	21.1	21.1	0	0	0	0	0	0	0	0	0	0	0.7	3.2	1.1
102	3/23/2017	5:04:35	0	0	0	0	21.1	21.1	21.1	21.1	0	0	0	0	0	0	0	0	0	0	0.4	1.9	0.2
103	3/23/2017	5:14:35	0	0	0	0	21.1	21.1	21.1	21.1	0	0	0	0	0	0	0	0	0	0	0.2	1.3	0
104	3/23/2017	5:24:35	0	0	0	0	21.1	21.1	21.1	21.1	0	0	0	0	0	0	0	0	0	0	0.2	2.5	0.3
105	3/23/2017	5:34:35	0	0	0	0	21.1	21.1	21.1	21.1	0	0	0	0	0	0	0	0	0	0	0.4	2.9	0
106	3/23/2017	5:44:35	0	0	0	0	21.1	21.1	21.1	21.1	0	0	0	0	0	0	0	0	0	0	0.6	4.5	0.2
107	3/23/2017	5:54:35	0	0	0	0	21.1	21.1	21.1	21.1	0	0	0	0	0	0	0	0	0	0	0.4	2.5	0

108	3/23/2017	6:04:35	0	0	0	0	21.1	21.1	21.1	21.1	0	0	0	0	0	0	0	0	0	0.1	2.4	1.3
109	3/23/2017	6:14:35	0	0	0	0	21.1	21.1	21.1	21.1	0	0	0	0	0	0	0	0	0	0.6	3	0
110	3/23/2017	6:24:35	0	0	0	0	21.1	21.1	21.1	21.1	0	0	0	0	0	0	0	0	0	0	0.3	0
111	3/23/2017	6:34:35	0	0	0	0	21.1	21.1	21.1	21.1	0	0	0	0	0	0	0	0	0	0	0.2	0
112	3/23/2017	6:44:35	0	0	0	0	21.1	21.1	21.1	21.1	0	0	0	0	0	0	0	0	0	0	0.2	0
113	3/23/2017	6:54:35	0	0	0	0	21.1	21.1	21.1	21.1	0	0	0	0	0	0	0	0	0	0	0.1	0
114	3/23/2017	7:04:35	0	0	0	0	21.1	21.1	21.1	21.1	0	0	0	0	0	0	0	0	0	0	0	0
115	3/23/2017	7:14:35	0	0	0	0	21.1	21.1	21.1	21.1	0	0	0	0	0	0	0	0	0	0	0.1	0
116	3/23/2017	7:24:35	0	0	0	0	21.1	21.1	21.1	21.1	0	0	0	0	0	0	0	0	0	0	0	0
117	3/23/2017	7:34:35	0	0	0	0	21.1	21.1	21.1	21.1	0	0	0	0	0	0	0	0	0	0	0	0
118	3/23/2017	7:44:35	0	0	0	0	21.1	21.1	21.1	21.1	0	0	0	0	0	0	0	0	0	0	0	0
119	3/23/2017	7:54:35	0	0	0	0	21.1	21.1	21.1	21.1	0	0	0	0	0	0	0	0	0	0	0	0
120	3/23/2017	8:04:35	0	0	0	0	21.1	21.1	21.1	21.1	0	0	0	0	0	0	0	0	0	0	0	0
121	3/23/2017	8:14:35	0	0	0	0	21.1	21.1	21.1	21.1	0	0	0	0	0	0	0	0	0	0	0	0
122	3/23/2017	8:24:35	0	0	0	0	21.1	21.1	21.1	21.1	0	0	0	0	0	0	0	0	0	0	0	0
123	3/23/2017	8:34:35	0	0	0	0	21.1	21.1	21.1	21.1	0	0	0	0	0	0	0	0	0	0	0	0
124	3/23/2017	8:44:35	0	0	0	0	21.1	21.1	21.1	21.1	0	0	0	0	0	0	0	0	0	0	0	0
125	3/23/2017	8:54:35	0	0	0	0	20.9	20.9	21.1	20.9	0	0	0	0	0	0	0	0	0	0	0	0
126	3/23/2017	9:04:35	0	0	0	0	20.9	20.9	20.9	20.9	0	0	0	0	0	0	0	0	0	0	0	0
127	3/23/2017	9:14:35	0	0	0	0	20.9	20.9	20.9	20.9	0	0	0	0	0	0	0	0	0	0	0	0
128	3/23/2017	9:24:35	0	0	0	0	20.9	20.9	20.9	20.9	0	0	0	0	0	0	0	0	0	0	0	0
129	3/23/2017	9:34:35	0	0	0	0	20.9	20.9	20.9	20.9	0	0	0	0	0	0	0	0	0	0	0	0
130	3/23/2017	9:44:35	0	0	0	0	20.9	20.9	20.9	20.9	0	0	0	0	0	0	0	0	0	0	0	0
131	3/23/2017	9:54:35	0	0	0	0	20.9	20.9	20.9	20.9	0	0	0	0	0	0	0	0	0	0	0	0
132	3/23/2017	10:04:35	0	0	0	0	20.9	20.9	20.9	20.9	0	0	0	0	0	0	0	0	0	0	0	0
133	3/23/2017	10:14:35	0	0	0	0	20.9	20.9	20.9	20.9	0	0	0	0	0	0	0	0	0	0	0	0
134	3/23/2017	10:24:35	0	0	0	0	20.9	20.9	20.9	20.9	0	0	0	0	0	0	0	0	0	0	0	0
135	3/23/2017	10:34:35	0	0	0	0	20.9	20.9	20.9	20.9	0	0	0	0	0	0	0	0	0	0	0	0
136	3/23/2017	10:44:35	0	0	0	0	20.9	20.9	20.9	20.9	0	0	0	0	0	0	0	0	0	0	0	0
137	3/23/2017	10:54:35	0	0	0	0	20.9	20.9	20.9	20.9	0	0	0	0	0	0	0	0	0	0	0	0
138	3/23/2017	11:04:35	0	0	0	0	20.9	20.9	20.9	20.9	0	0	0	0	0	0	0	0	0	0	0	0
139	3/23/2017	11:14:35	0	0	0	0	20.9	20.9	20.9	20.9	0	0	0	0	0	0	0	0	0	0	0	0
140	3/23/2017	11:24:35	0	0	0	0	20.9	20.9	20.9	20.9	0	0	0	0	0	0	0	0	0	0	0	0
141	3/23/2017	11:34:35	0	0	0	0	20.9	20.9	20.9	20.9	0	0	0	0	0	0	0	0	0	0	0	0
142	3/23/2017	11:44:35	0	0	0	0	20.9	20.9	20.9	20.9	0	0	0	0	0	0	0	0	0	0	0	0
143	3/23/2017	11:54:35	0	0	0	0	20.9	20.9	20.9	20.9	0	0	0	0	0	0	0	0	0	0	0	0
144	3/23/2017	12:04:35	0	0	0	0	20.9	20.9	20.9	20.9	0	0	0	0	0	0	0	0	0	0	0	0
Peak			0	0	0	0	21.2	21.2	21.5	21.3	0	0	0	0	0	0	0	0	0	1.2	6.2	2.8
Min			0	0	0	0	20.9	20.9	20.9	20.9	0	0	0	0	0	0	0	0	0	0	0	0
Average			0	0	0	0	21.1	21.1	21.1	21.1	0	0	0	0	0	0	0	0	0	0.2	1.1	0.2

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TWA/STEL

Index	Date/Time	H2S(ppm) (TWA)	H2S(ppm) (STEL)	CO(ppm) (TWA)	CO(ppm) (STEL)	VOC(ppm) (TWA)	VOC(ppm) (STEL)
1	3/22/2017 12:14:35	0	---	0	---	0	---
2	3/22/2017 12:24:35	0	0	0	0	0	0
3	3/22/2017 12:34:35	0	0	0	0	0	0
4	3/22/2017 12:44:35	0	0	0	0	0	0
5	3/22/2017 12:54:35	0	0	0	0	0	0
6	3/22/2017 13:04:35	0	0	0	0	0	0
7	3/22/2017 13:14:35	0	0	0	0	0	0.1
8	3/22/2017 13:24:35	0	0	0	0	0	0.1
9	3/22/2017 13:34:35	0	0	0	0	0	0
10	3/22/2017 13:44:35	0	0	0	0	0	0

11	3/22/2017	13:54:35	0	0	0	0	0	0
12	3/22/2017	14:04:35	0	0	0	0	0	0
13	3/22/2017	14:14:35	0	0	0	0	0	0
14	3/22/2017	14:24:35	0	0	0	0	0	0
15	3/22/2017	14:34:35	0	0	0	0	0	0
16	3/22/2017	14:44:35	0	0	0	0	0	0
17	3/22/2017	14:54:35	0	0	0	0	0	0
18	3/22/2017	15:04:35	0	0	0	0	0	0
19	3/22/2017	15:14:35	0	0	0	0	0	0
20	3/22/2017	15:24:35	0	0	0	0	0	0
21	3/22/2017	15:34:35	0	0	0	0	0	0
22	3/22/2017	15:44:35	0	0	0	0	0	0
23	3/22/2017	15:54:35	0	0	0	0	0	0
24	3/22/2017	16:04:35	0	0	0	0	0	0
25	3/22/2017	16:14:35	0	0	0	0	0	0
26	3/22/2017	16:24:35	0	0	0	0	0	0
27	3/22/2017	16:34:35	0	0	0	0	0	0
28	3/22/2017	16:44:35	0	0	0	0	0	0
29	3/22/2017	16:54:35	0	0	0	0	0	0
30	3/22/2017	17:04:35	0	0	0	0	0	0
31	3/22/2017	17:14:35	0	0	0	0	0	0
32	3/22/2017	17:24:35	0	0	0	0	0	0
33	3/22/2017	17:34:35	0	0	0	0	0	0
34	3/22/2017	17:44:35	0	0	0	0	0	0
35	3/22/2017	17:54:35	0	0	0	0	0	0
36	3/22/2017	18:04:35	0	0	0	0	0	0
37	3/22/2017	18:14:35	0	0	0	0	0	0
38	3/22/2017	18:24:35	0	0	0	0	0	0
39	3/22/2017	18:34:35	0	0	0	0	0	0
40	3/22/2017	18:44:35	0	0	0	0	0	0
41	3/22/2017	18:54:35	0	0	0	0	0	0
42	3/22/2017	19:04:35	0	0	0	0	0	0
43	3/22/2017	19:14:35	0	0	0	0	0	0
44	3/22/2017	19:24:35	0	0	0	0	0	0
45	3/22/2017	19:34:35	0	0	0	0	0	0
46	3/22/2017	19:44:35	0	0	0	0	0	0
47	3/22/2017	19:54:35	0	0	0	0	0	0
48	3/22/2017	20:04:35	0	0	0	0	0	0
49	3/22/2017	20:14:35	0	0	0	0	0	0
50	3/22/2017	20:24:35	0	0	0	0	0	0
51	3/22/2017	20:34:35	0	0	0	0	0	0
52	3/22/2017	20:44:35	0	0	0	0	0	0
53	3/22/2017	20:54:35	0	0	0	0	0	0
54	3/22/2017	21:04:35	0	0	0	0	0	0
55	3/22/2017	21:14:35	0	0	0	0	0	0
56	3/22/2017	21:24:35	0	0	0	0	0	0
57	3/22/2017	21:34:35	0	0	0	0	0	0
58	3/22/2017	21:44:35	0	0	0	0	0	0
59	3/22/2017	21:54:35	0	0	0	0	0	0
60	3/22/2017	22:04:35	0	0	0	0	0	0
61	3/22/2017	22:14:35	0	0	0	0	0	0
62	3/22/2017	22:24:35	0	0	0	0	0	0
63	3/22/2017	22:34:35	0	0	0	0	0	0
64	3/22/2017	22:44:35	0	0	0	0	0	0
65	3/22/2017	22:54:35	0	0	0	0	0	0



66	3/22/2017	23:04:35	0	0	0	0	0	0.1
67	3/22/2017	23:14:35	0	0	0	0	0	0.9
68	3/22/2017	23:24:35	0	0	0	0	0.1	2.6
69	3/22/2017	23:34:35	0	0	0	0	0.1	1.8
70	3/22/2017	23:44:35	0	0	0	0	0.1	0
71	3/22/2017	23:54:35	0	0	0	0	0.1	0.2
72	3/23/2017	0:04:35	0	0	0	0	0.1	1.4
73	3/23/2017	0:14:35	0	0	0	0	0.1	1.2
74	3/23/2017	0:24:35	0	0	0	0	0.1	0.3
75	3/23/2017	0:34:35	0	0	0	0	0.1	0.3
76	3/23/2017	0:44:35	0	0	0	0	0.2	0.8
77	3/23/2017	0:54:35	0	0	0	0	0.2	1
78	3/23/2017	1:04:35	0	0	0	0	0.2	1.9
79	3/23/2017	1:14:35	0	0	0	0	0.2	2.1
80	3/23/2017	1:24:35	0	0	0	0	0.3	2.3
81	3/23/2017	1:34:35	0	0	0	0	0.3	2.2
82	3/23/2017	1:44:35	0	0	0	0	0.3	0.3
83	3/23/2017	1:54:35	0	0	0	0	0.3	0.5
84	3/23/2017	2:04:35	0	0	0	0	0.3	1.1
85	3/23/2017	2:14:35	0	0	0	0	0.4	1.7
86	3/23/2017	2:24:35	0	0	0	0	0.4	1.6
87	3/23/2017	2:34:35	0	0	0	0	0.4	0.7
88	3/23/2017	2:44:35	0	0	0	0	0.4	0.4
89	3/23/2017	2:54:35	0	0	0	0	0.4	0.4
90	3/23/2017	3:04:35	0	0	0	0	0.4	0.1
91	3/23/2017	3:14:35	0	0	0	0	0.4	0.7
92	3/23/2017	3:24:35	0	0	0	0	0.4	1.1
93	3/23/2017	3:34:35	0	0	0	0	0.5	1.2
94	3/23/2017	3:44:35	0	0	0	0	0.5	1.5
95	3/23/2017	3:54:35	0	0	0	0	0.5	0.8
96	3/23/2017	4:04:35	0	0	0	0	0.5	0.1
97	3/23/2017	4:14:35	0	0	0	0	0.5	0.3
98	3/23/2017	4:24:35	0	0	0	0	0.5	0.3
99	3/23/2017	4:34:35	0	0	0	0	0.5	0.1
100	3/23/2017	4:44:35	0	0	0	0	0.5	0.2
101	3/23/2017	4:54:35	0	0	0	0	0.5	0.9
102	3/23/2017	5:04:35	0	0	0	0	0.5	0.9
103	3/23/2017	5:14:35	0	0	0	0	0.5	0.1
104	3/23/2017	5:24:35	0	0	0	0	0.5	0.2
105	3/23/2017	5:34:35	0	0	0	0	0.5	0.2
106	3/23/2017	5:44:35	0	0	0	0	0.5	0.1
107	3/23/2017	5:54:35	0	0	0	0	0.5	0.1
108	3/23/2017	6:04:35	0	0	0	0	0.6	0.9
109	3/23/2017	6:14:35	0	0	0	0	0.6	0.9
110	3/23/2017	6:24:35	0	0	0	0	0.6	0
111	3/23/2017	6:34:35	0	0	0	0	0.6	0
112	3/23/2017	6:44:35	0	0	0	0	0.6	0
113	3/23/2017	6:54:35	0	0	0	0	0.6	0
114	3/23/2017	7:04:35	0	0	0	0	0.6	0
115	3/23/2017	7:14:35	0	0	0	0	0.6	0
116	3/23/2017	7:24:35	0	0	0	0	0.6	0
117	3/23/2017	7:34:35	0	0	0	0	0.6	0
118	3/23/2017	7:44:35	0	0	0	0	0.6	0
119	3/23/2017	7:54:35	0	0	0	0	0.6	0
120	3/23/2017	8:04:35	0	0	0	0	0.6	0







100	3/24/2017	4:44:35	0	0	0	0	20.9	20.9	20.9	20.9	0	0	0	0	0	0	0	0	0	0	0.3	0	
101	3/24/2017	4:54:35	0	0	0	0	20.9	20.9	20.9	20.9	0	0	0	0	0	0	0	0	0	0	0	0	0
102	3/24/2017	5:04:35	0	0	0	0	20.9	20.9	20.9	20.9	0	0	0	0	0	0	0	0	0	0	0	0	0
103	3/24/2017	5:14:35	0	0	0	0	20.9	20.9	20.9	20.9	0	0	0	0	0	0	0	0	0	0	0	0.3	0
104	3/24/2017	5:24:35	0	0	0	0	20.9	20.9	20.9	20.9	0	0	0	0	0	0	0	0	0	0	0	0.3	0
105	3/24/2017	5:34:35	0	0	0	0	20.9	20.9	20.9	20.9	0	0	0	0	0	0	0	0	0	0	0	0.1	0
106	3/24/2017	5:44:35	0	0	0	0	20.9	20.9	20.9	20.9	0	0	0	0	0	0	0	0	0	0	0	0	0
107	3/24/2017	5:54:35	0	0	0	0	20.9	20.9	20.9	20.9	0	0	0	0	0	0	0	0	0	0	0	0	0
108	3/24/2017	6:04:35	0	0	0	0	20.9	20.9	20.9	20.9	0	0	0	0	0	0	0	0	0	0	0	0.1	0
109	3/24/2017	6:14:35	0	0	0	0	20.9	20.9	20.9	20.9	0	0	0	0	0	0	0	0	0	0	0	0.4	0.2
110	3/24/2017	6:24:35	0	0	0	0	20.9	20.9	20.9	20.9	0	0	0	0	0	0	0	0	0	0	0	0.3	0.1
111	3/24/2017	6:34:35	0	0	0	0	20.9	20.9	20.9	20.9	0	0	0	0	0	0	0	0	0	0	0.1	1.3	0.6
112	3/24/2017	6:44:35	0	0	0	0	20.9	20.9	20.9	20.9	0	0	0	0	0	0	0	0	0	0	0.2	1	0
113	3/24/2017	6:54:35	0	0	0	0	20.9	20.9	20.9	20.9	0	0	0	0	0	0	0	0	0	0	0.5	1.8	0
114	3/24/2017	7:04:35	0	0	0	0	20.9	20.9	20.9	20.9	0	0	0	0	0	0	0	0	0	0	0.1	0.8	0
115	3/24/2017	7:14:35	0	0	0	0	20.9	20.9	20.9	20.9	0	0	0	0	0	0	0	0	0	0	0	0.1	0.1
116	3/24/2017	7:24:35	0	0	0	0	20.9	20.9	20.9	20.9	0	0	0	0	0	0	0	0	0	0	0.1	0.3	0
117	3/24/2017	7:34:35	0	0	0	0	20.9	20.9	20.9	20.9	0	0	0	0	0	0	0	0	0	0	0	0.6	0
118	3/24/2017	7:44:35	0	0	0	0	20.9	20.9	20.9	20.9	0	0	0	0	0	0	0	0	0	0	0.1	0.8	0
119	3/24/2017	7:54:35	0	0	0	0	20.9	20.9	20.9	20.9	0	0	0	0	0	0	0	0	0	0	0	0.2	0
120	3/24/2017	8:04:35	0	0	0	0	20.9	20.9	20.9	20.9	0	0	0	0	0	0	0	0	0	0	0	0.1	0
121	3/24/2017	8:14:35	0	0	0	0	20.9	20.9	20.9	20.9	0	0	0	0	0	0	0	0	0	0	0	0.3	0
122	3/24/2017	8:24:35	0	0	0	0	20.9	20.9	20.9	20.9	0	0	0	0	0	0	0	0	0	0	0	0.9	0
123	3/24/2017	8:34:35	0	0	0	0	20.9	20.9	20.9	20.9	0	0	0	0	0	0	0	0	0	0	0	0.3	0
124	3/24/2017	8:44:35	0	0	0	0	20.9	20.9	20.9	20.9	0	0	0	0	0	0	0	0	0	0	0	0.3	0
125	3/24/2017	8:54:35	0	0	0	0	20.9	20.9	20.9	20.9	0	0	0	0	0	0	0	0	0	0	0	0.2	0.1
126	3/24/2017	9:04:35	0	0	0	0	20.9	20.9	20.9	20.9	0	0	0	0	0	0	0	0	0	0	0	0.4	0
127	3/24/2017	9:14:35	0	0	0	0	20.9	20.9	20.9	20.9	0	0	0	0	0	0	0	0	0	0	0	1.2	0
128	3/24/2017	9:24:35	0	0	0	0	20.9	20.9	20.9	20.9	0	0	0	0	0	0	0	0	0	0	0	0.5	0
129	3/24/2017	9:34:35	0	0	0	0	20.9	20.9	20.9	20.9	0	0	0	0	0	0	0	0	0	0	0	0	0
130	3/24/2017	9:44:35	0	0	0	0	20.9	20.9	20.9	20.9	0	0	0	0	0	0	0	0	0	0	0	0.7	0
131	3/24/2017	9:54:35	0	0	0	0	20.9	20.9	20.9	20.9	0	0	0	0	0	0	0	0	0	0	0	0.1	0
132	3/24/2017	10:04:35	0	0	0	0	20.9	20.9	20.9	20.9	0	0	0	0	0	0	0	0	0	0	0	0.2	0
133	3/24/2017	10:14:35	0	0	0	0	20.9	20.9	20.9	20.9	0	0	0	0	0	0	0	0	0	0	0	0.2	0
134	3/24/2017	10:24:35	0	0	0	0	20.9	20.9	20.9	20.9	0	0	0	0	0	0	0	0	0	0	0	0.1	0
135	3/24/2017	10:34:35	0	0	0	0	20.9	20.9	20.9	20.9	0	0	0	0	0	0	0	0	0	0	0	0	0
136	3/24/2017	10:44:35	0	0	0	0	20.9	20.9	20.9	20.9	0	0	0	0	0	0	0	0	0	0	0	0.1	0
137	3/24/2017	10:54:35	0	0	0	0	20.9	20.9	20.9	20.9	0	0	0	0	0	0	0	0	0	0	0	0	0
138	3/24/2017	11:04:35	0	0	0	0	20.9	20.9	20.9	20.9	0	0	0	0	0	0	0	0	0	0	0	0.6	0
139	3/24/2017	11:14:35	0	0	0	0	20.9	20.9	20.9	20.9	0	0	0	0	0	0	0	0	0	0	0	0.6	0.1
140	3/24/2017	11:24:35	0	0	0	0	20.9	20.9	20.9	20.9	0	0	0	0	0	0	0	0	0	0	0	0.2	0
141	3/24/2017	11:34:35	0	0	0	0	20.9	20.9	20.9	20.9	0	0	0	0	0	0	0	0	0	0	0	0	0
142	3/24/2017	11:44:35	0	0	0	0	20.9	20.9	20.9	20.9	0	0	0	0	0	0	0	0	0	0	0	0	0
143	3/24/2017	11:54:35	0	0	0	0	20.9	20.9	20.9	20.9	0	0	0	0	0	0	0	0	0	0	0	0	0
144	3/24/2017	12:04:35	0	0	0	0	20.9	20.9	20.9	20.9	0	0	0	0	0	0	0	0	0	0	0	0	0
Peak			0	0	0	0	20.9	20.9	20.9	20.9	0	0	0	0	0	0	0	0	0	1	10.9	1.8	
Min			0	0	0	0	20.9	20.9	20.9	20.9	0	0	0	0	0	0	0	0	0	0	0	0	0
Average			0	0	0	0	20.9	20.9	20.9	20.9	0	0	0	0	0	0	0	0	0	0.1	0.6	0.1	

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TWA/STEL

Index	Date/Time	H2S(ppm) (TWA)	H2S(ppm) (STEL)	CO(ppm) (TWA)	CO(ppm) (STEL)	VOC(ppm) (TWA)	VOC(ppm) (STEL)
1	3/23/2017 12:14:35	0	---	0	---	0	---
2	3/23/2017 12:24:35	0	0	0	0	0	0

3	3/23/2017	12:34:35	0	0	0	0	0	0
4	3/23/2017	12:44:35	0	0	0	0	0	0
5	3/23/2017	12:54:35	0	0	0	0	0	0
6	3/23/2017	13:04:35	0	0	0	0	0	0
7	3/23/2017	13:14:35	0	0	0	0	0	0
8	3/23/2017	13:24:35	0	0	0	0	0	0
9	3/23/2017	13:34:35	0	0	0	0	0	0
10	3/23/2017	13:44:35	0	0	0	0	0	0
11	3/23/2017	13:54:35	0	0	0	0	0	0
12	3/23/2017	14:04:35	0	0	0	0	0	0
13	3/23/2017	14:14:35	0	0	0	0	0	0
14	3/23/2017	14:24:35	0	0	0	0	0	0
15	3/23/2017	14:34:35	0	0	0	0	0	0
16	3/23/2017	14:44:35	0	0	0	0	0	0
17	3/23/2017	14:54:35	0	0	0	0	0	0
18	3/23/2017	15:04:35	0	0	0	0	0	0
19	3/23/2017	15:14:35	0	0	0	0	0	0
20	3/23/2017	15:24:35	0	0	0	0	0	0
21	3/23/2017	15:34:35	0	0	0	0	0	0
22	3/23/2017	15:44:35	0	0	0	0	0	0
23	3/23/2017	15:54:35	0	0	0	0	0	0
24	3/23/2017	16:04:35	0	0	0	0	0	0
25	3/23/2017	16:14:35	0	0	0	0	0	0
26	3/23/2017	16:24:35	0	0	0	0	0	0
27	3/23/2017	16:34:35	0	0	0	0	0	0
28	3/23/2017	16:44:35	0	0	0	0	0	0
29	3/23/2017	16:54:35	0	0	0	0	0	0
30	3/23/2017	17:04:35	0	0	0	0	0	0
31	3/23/2017	17:14:35	0	0	0	0	0	0
32	3/23/2017	17:24:35	0	0	0	0	0	0
33	3/23/2017	17:34:35	0	0	0	0	0	0
34	3/23/2017	17:44:35	0	0	0	0	0	0
35	3/23/2017	17:54:35	0	0	0	0	0	0
36	3/23/2017	18:04:35	0	0	0	0	0	0
37	3/23/2017	18:14:35	0	0	0	0	0	0
38	3/23/2017	18:24:35	0	0	0	0	0	0
39	3/23/2017	18:34:35	0	0	0	0	0	0.5
40	3/23/2017	18:44:35	0	0	0	0	0	0.5
41	3/23/2017	18:54:35	0	0	0	0	0	0
42	3/23/2017	19:04:35	0	0	0	0	0	0
43	3/23/2017	19:14:35	0	0	0	0	0	0
44	3/23/2017	19:24:35	0	0	0	0	0	0
45	3/23/2017	19:34:35	0	0	0	0	0	0
46	3/23/2017	19:44:35	0	0	0	0	0	0
47	3/23/2017	19:54:35	0	0	0	0	0	0
48	3/23/2017	20:04:35	0	0	0	0	0	0.2
49	3/23/2017	20:14:35	0	0	0	0	0	0.2
50	3/23/2017	20:24:35	0	0	0	0	0	0.1
51	3/23/2017	20:34:35	0	0	0	0	0	0.1
52	3/23/2017	20:44:35	0	0	0	0	0	0
53	3/23/2017	20:54:35	0	0	0	0	0	0
54	3/23/2017	21:04:35	0	0	0	0	0	0
55	3/23/2017	21:14:35	0	0	0	0	0	0
56	3/23/2017	21:24:35	0	0	0	0	0	0
57	3/23/2017	21:34:35	0	0	0	0	0	0

58	3/23/2017	21:44:35	0	0	0	0	0	0
59	3/23/2017	21:54:35	0	0	0	0	0	0
60	3/23/2017	22:04:35	0	0	0	0	0	0
61	3/23/2017	22:14:35	0	0	0	0	0	0
62	3/23/2017	22:24:35	0	0	0	0	0	0.2
63	3/23/2017	22:34:35	0	0	0	0	0	0.3
64	3/23/2017	22:44:35	0	0	0	0	0	0.1
65	3/23/2017	22:54:35	0	0	0	0	0.1	1.2
66	3/23/2017	23:04:35	0	0	0	0	0.1	2.1
67	3/23/2017	23:14:35	0	0	0	0	0.1	1.8
68	3/23/2017	23:24:35	0	0	0	0	0.1	0.9
69	3/23/2017	23:34:35	0	0	0	0	0.1	0.5
70	3/23/2017	23:44:35	0	0	0	0	0.1	0.4
71	3/23/2017	23:54:35	0	0	0	0	0.1	0
72	3/24/2017	0:04:35	0	0	0	0	0.1	0
73	3/24/2017	0:14:35	0	0	0	0	0.1	0
74	3/24/2017	0:24:35	0	0	0	0	0.1	0
75	3/24/2017	0:34:35	0	0	0	0	0.1	0
76	3/24/2017	0:44:35	0	0	0	0	0.1	0
77	3/24/2017	0:54:35	0	0	0	0	0.1	0
78	3/24/2017	1:04:35	0	0	0	0	0.1	0.2
79	3/24/2017	1:14:35	0	0	0	0	0.1	0.2
80	3/24/2017	1:24:35	0	0	0	0	0.2	0.2
81	3/24/2017	1:34:35	0	0	0	0	0.2	0.2
82	3/24/2017	1:44:35	0	0	0	0	0.2	0
83	3/24/2017	1:54:35	0	0	0	0	0.2	0
84	3/24/2017	2:04:35	0	0	0	0	0.2	0
85	3/24/2017	2:14:35	0	0	0	0	0.2	0
86	3/24/2017	2:24:35	0	0	0	0	0.2	0
87	3/24/2017	2:34:35	0	0	0	0	0.2	0.6
88	3/24/2017	2:44:35	0	0	0	0	0.2	0.6
89	3/24/2017	2:54:35	0	0	0	0	0.2	0
90	3/24/2017	3:04:35	0	0	0	0	0.2	0
91	3/24/2017	3:14:35	0	0	0	0	0.2	0
92	3/24/2017	3:24:35	0	0	0	0	0.2	0
93	3/24/2017	3:34:35	0	0	0	0	0.2	0
94	3/24/2017	3:44:35	0	0	0	0	0.2	0.1
95	3/24/2017	3:54:35	0	0	0	0	0.2	0.4
96	3/24/2017	4:04:35	0	0	0	0	0.2	0.5
97	3/24/2017	4:14:35	0	0	0	0	0.2	0.3
98	3/24/2017	4:24:35	0	0	0	0	0.2	0
99	3/24/2017	4:34:35	0	0	0	0	0.2	0.1
100	3/24/2017	4:44:35	0	0	0	0	0.2	0.1
101	3/24/2017	4:54:35	0	0	0	0	0.2	0
102	3/24/2017	5:04:35	0	0	0	0	0.2	0
103	3/24/2017	5:14:35	0	0	0	0	0.2	0
104	3/24/2017	5:24:35	0	0	0	0	0.2	0
105	3/24/2017	5:34:35	0	0	0	0	0.2	0
106	3/24/2017	5:44:35	0	0	0	0	0.2	0
107	3/24/2017	5:54:35	0	0	0	0	0.2	0
108	3/24/2017	6:04:35	0	0	0	0	0.2	0
109	3/24/2017	6:14:35	0	0	0	0	0.2	0.1
110	3/24/2017	6:24:35	0	0	0	0	0.2	0.2
111	3/24/2017	6:34:35	0	0	0	0	0.2	0.5
112	3/24/2017	6:44:35	0	0	0	0	0.2	0.4

113	3/24/2017	6:54:35	0	0	0	0	0.2	0
114	3/24/2017	7:04:35	0	0	0	0	0.2	0
115	3/24/2017	7:14:35	0	0	0	0	0.2	0.1
116	3/24/2017	7:24:35	0	0	0	0	0.2	0.1
117	3/24/2017	7:34:35	0	0	0	0	0.2	0
118	3/24/2017	7:44:35	0	0	0	0	0.2	0
119	3/24/2017	7:54:35	0	0	0	0	0.2	0
120	3/24/2017	8:04:35	0	0	0	0	0.2	0
121	3/24/2017	8:14:35	0	0	0	0	0.2	0
122	3/24/2017	8:24:35	0	0	0	0	0.2	0
123	3/24/2017	8:34:35	0	0	0	0	0.2	0
124	3/24/2017	8:44:35	0	0	0	0	0.2	0
125	3/24/2017	8:54:35	0	0	0	0	0.2	0.1
126	3/24/2017	9:04:35	0	0	0	0	0.2	0.1
127	3/24/2017	9:14:35	0	0	0	0	0.2	0
128	3/24/2017	9:24:35	0	0	0	0	0.2	0
129	3/24/2017	9:34:35	0	0	0	0	0.2	0
130	3/24/2017	9:44:35	0	0	0	0	0.2	0
131	3/24/2017	9:54:35	0	0	0	0	0.2	0
132	3/24/2017	10:04:35	0	0	0	0	0.2	0
133	3/24/2017	10:14:35	0	0	0	0	0.2	0
134	3/24/2017	10:24:35	0	0	0	0	0.2	0
135	3/24/2017	10:34:35	0	0	0	0	0.2	0
136	3/24/2017	10:44:35	0	0	0	0	0.2	0
137	3/24/2017	10:54:35	0	0	0	0	0.2	0
138	3/24/2017	11:04:35	0	0	0	0	0.2	0
139	3/24/2017	11:14:35	0	0	0	0	0.2	0.1
140	3/24/2017	11:24:35	0	0	0	0	0.2	0.1
141	3/24/2017	11:34:35	0	0	0	0	0.2	0
142	3/24/2017	11:44:35	0	0	0	0	0.2	0
143	3/24/2017	11:54:35	0	0	0	0	0.2	0
144	3/24/2017	12:04:35	0	0	0	0	0.2	0

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17/03/24 12:04

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Summary

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Unit Name MultiRAE(PGM-6228)  
Unit SN MBB3Z187P8  
Unit Firmware Ver V1.10  
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Running Mode Hygiene Mode  
Datalog Mode Auto  
Diagnostic Mode No  
Stop Reason Pause in Communic Mode  
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Site ID 66  
User ID 0  
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Begin 3/24/2017 12:04:35  
End 3/24/2017 14:34:45  
Sample Period(s) 600  
Number of Records 15  
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Sensor LEL(%LEL) OXY(%) H2S(ppm) CO(ppm) VOC(ppm)



Sensor	SN	SC0311047SC0342058SC03AR01:SC0306024SC03A40162Q8																			
Measure	Type	Min	Avg	Max	Real	Min	Avg	Max	Real	Min	Avg	Max	Real	Min	Avg	Max	Real	Min	Avg	Max	Real
Span			50	18	1	50	10														
Span		2	N/A	N/A	N/A	N/A	1000														
Low	Alarm		10	19.5	10	50	50														
High	Alarm		20	23.5	20	50	100														
Over	Alarm		100	30	100	500	5000														
STEL	Alarm	N/A	N/A		15	100	25														
TWA	Alarm	N/A	N/A		10	35	10														
Measurem Gas(CF)		Methane(1N/A		N/A	N/A	Isobutylene(1.00)															
Calibration Time		3/2/2017	11:08	3/2/2017	11:08	3/2/2017	11:12	3/2/2017	11:08	3/2/2017	11:10										
Peak			0	20.9	0	0	0														
Min			0	20.9	0	0	0														
Average			0	20.9	0	0	0														

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Datalog

Index	Date/Time	LEL(%LEL) (Min)	LEL(%LEL) (Avg)	LEL(%LEL) (Max)	LEL(%LEL) (Real)	OXY(% (Min)	OXY(% (Avg)	OXY(% (Max)	OXY(% (Real)	H2S(ppm) (Min)	H2S(ppm) (Avg)	H2S(ppm) (Max)	H2S(ppm) (Real)	CO(ppm) (Min)	CO(ppm) (Avg)	CO(ppm) (Max)	CO(ppm) (Real)	VOC(ppm) (Min)	VOC(ppm) (Avg)	VOC(ppm) (Max)	VOC(ppm) (Real)	
1	3/24/2017 12:14:35	0	0	0	0	20.9	20.9	20.9	20.9	0	0	0	0	0	0	0	0	0	0	0	0	0
2	3/24/2017 12:24:35	0	0	0	0	20.9	20.9	20.9	20.9	0	0	0	0	0	0	0	0	0	0	0	0	0
3	3/24/2017 12:34:35	0	0	0	0	20.9	20.9	20.9	20.9	0	0	0	0	0	0	0	0	0	0	0	0	0.4
4	3/24/2017 12:44:35	0	0	0	0	20.9	20.9	20.9	20.9	0	0	0	0	0	0	0	0	0	0	0	0	0.4
5	3/24/2017 12:54:35	0	0	0	0	20.9	20.9	20.9	20.9	0	0	0	0	0	0	0	0	0	0	0	0	0.4
6	3/24/2017 13:04:35	0	0	0	0	20.9	20.9	20.9	20.9	0	0	0	0	0	0	0	0	0	0	0	0.1	0.7
7	3/24/2017 13:14:35	0	0	0	0	20.9	20.9	20.9	20.9	0	0	0	0	0	0	0	0	0	0	0	0	0
8	3/24/2017 13:24:35	0	0	0	0	20.9	20.9	20.9	20.9	0	0	0	0	0	0	0	0	0	0	0	0	0
9	3/24/2017 13:34:35	0	0	0	0	20.9	20.9	20.9	20.9	0	0	0	0	0	0	0	0	0	0	0	0	0.6
10	3/24/2017 13:44:35	0	0	0	0	20.9	20.9	20.9	20.9	0	0	0	0	0	0	0	0	0	0	0	0.1	1.9
11	3/24/2017 13:54:35	0	0	0	0	20.9	20.9	20.9	20.9	0	0	0	0	0	0	0	0	0	0	0	0	0.2
12	3/24/2017 14:04:35	0	0	0	0	20.9	20.9	20.9	20.9	0	0	0	0	0	0	0	0	0	0	0	0	0
13	3/24/2017 14:14:35	0	0	0	0	20.9	20.9	20.9	20.9	0	0	0	0	0	0	0	0	0	0	0	0	0
14	3/24/2017 14:24:35	0	0	0	0	20.9	20.9	20.9	20.9	0	0	0	0	0	0	0	0	0	0	0	0	0
15	3/24/2017 14:34:35	0	0	0	0	20.9	20.9	20.9	20.9	0	0	0	0	0	0	0	0	0	0	0	0	0
Peak		0	0	0	0	20.9	20.9	20.9	20.9	0	0	0	0	0	0	0	0	0	0	0	0.1	1.9
Min		0	0	0	0	20.9	20.9	20.9	20.9	0	0	0	0	0	0	0	0	0	0	0	0	0
Average		0	0	0	0	20.9	20.9	20.9	20.9	0	0	0	0	0	0	0	0	0	0	0	0	0.3

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TWA/STEL

Index	Date/Time	H2S(ppm) (TWA)	H2S(ppm) (STEL)	CO(ppm) (TWA)	CO(ppm) (STEL)	VOC(ppm) (TWA)	VOC(ppm) (STEL)
1	3/24/2017 12:14:35	0	---	0	---	0	---
2	3/24/2017 12:24:35	0	0	0	0	0	0
3	3/24/2017 12:34:35	0	0	0	0	0	0
4	3/24/2017 12:44:35	0	0	0	0	0	0
5	3/24/2017 12:54:35	0	0	0	0	0	0
6	3/24/2017 13:04:35	0	0	0	0	0	0
7	3/24/2017 13:14:35	0	0	0	0	0	0
8	3/24/2017 13:24:35	0	0	0	0	0	0
9	3/24/2017 13:34:35	0	0	0	0	0	0
10	3/24/2017 13:44:35	0	0	0	0	0	0
11	3/24/2017 13:54:35	0	0	0	0	0	0
12	3/24/2017 14:04:35	0	0	0	0	0	0
13	3/24/2017 14:14:35	0	0	0	0	0	0

14	3/24/2017	14:24:35	0	0	0	0	0	0
15	3/24/2017	14:34:35	0	0	0	0	0	0

17/03/24 15:41

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Summary

Unit Name MultiRAE(PGM-6228)
Unit SN MBB3Z187P8
Unit Firmware Ver V1.10

Running Mode Hygiene Mode
Datalog Mode Auto
Diagnostic Mode No
Stop Reason Schedule Stop

Site ID 66
User ID 0

Begin 3/24/2017 15:41:45
End 3/25/2017 15:41:45
Sample Period(s) 600
Number of Records 144

Sensor LEL(%LEL) OXY(%) H2S(ppm) CO(ppm) VOC(ppm)
Sensor SN SC03110475 SC0342058 SC03AR011 SC0306024 SC03A40162Q8
Measure Type Min Avg Max Real Min Avg Max Real Min Avg Max Real Min Avg Max Real Min Avg Max Real
Span 50 18 1 50 10
Span 2 N/A N/A N/A N/A 1000
Low Alarm 10 19.5 10 50 50
High Alarm 20 23.5 20 50 100
Over Alarm 100 30 100 500 5000
STEL Alarm N/A N/A 15 100 25
TWA Alarm N/A N/A 10 35 10
Measureme Gas(CF) Methane(1. N/A N/A N/A Isobutylene(1.00)
Calibration Time 3/24/2017 15:38 3/24/2017 15:38 3/24/2017 15:41 3/24/2017 15:38 3/24/2017 15:39
Peak 0 21.4 0 0 19.8
Min 0 20.9 0 0 0
Average 0 21.2 0 0 1

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Datalog

Table with 24 columns: Index, Date/Time, LEL(%LEL) (Min, Avg, Max, Real), OXY(%) (Min, Avg, Max, Real), H2S(ppm) (Min, Avg, Max, Real), CO(ppm) (Min, Avg, Max, Real), VOC(ppm) (Min, Avg, Max, Real). Rows 1-15 show data for 3/24/2017.

16	3/24/2017	18:21:45	0	0	0	0	21.4	21.4	21.4	21.4	0	0	0	0	0	0	0	0	0	0.2	0	
17	3/24/2017	18:31:45	0	0	0	0	21.4	21.4	21.4	21.4	0	0	0	0	0	0	0	0	0	0.2	0	
18	3/24/2017	18:41:45	0	0	0	0	21.4	21.4	21.4	21.4	0	0	0	0	0	0	0	0	0.2	1.6	0	
19	3/24/2017	18:51:45	0	0	0	0	21.4	21.4	21.4	21.4	0	0	0	0	0	0	0	0	0	0.6	0	
20	3/24/2017	19:01:45	0	0	0	0	21.3	21.3	21.4	21.3	0	0	0	0	0	0	0	0	0	0	0	
21	3/24/2017	19:11:45	0	0	0	0	21.3	21.3	21.4	21.3	0	0	0	0	0	0	0	0	0.7	7.1	6.9	
22	3/24/2017	19:21:45	0	0	0	0	21.3	21.3	21.3	21.3	0	0	0	0	0	0	0	0	1.9	5.7	17.2	16.9
23	3/24/2017	19:31:45	0	0	0	0	21.3	21.3	21.3	21.3	0	0	0	0	0	0	0	0	2.1	10.4	29.6	8.1
24	3/24/2017	19:41:45	0	0	0	0	21.3	21.3	21.3	21.3	0	0	0	0	0	0	0	0	0.2	2.9	9.8	0.3
25	3/24/2017	19:51:45	0	0	0	0	21.3	21.3	21.3	21.3	0	0	0	0	0	0	0	0	0	0.1	0.5	0.5
26	3/24/2017	20:01:45	0	0	0	0	21.3	21.3	21.3	21.3	0	0	0	0	0	0	0	0	0.5	3	6.4	0.8
27	3/24/2017	20:11:45	0	0	0	0	21.3	21.3	21.3	21.3	0	0	0	0	0	0	0	0	0	0.1	1	0
28	3/24/2017	20:21:45	0	0	0	0	21.3	21.3	21.3	21.3	0	0	0	0	0	0	0	0	0	0	0	0
29	3/24/2017	20:31:45	0	0	0	0	21.3	21.3	21.3	21.3	0	0	0	0	0	0	0	0	0	0	0	0
30	3/24/2017	20:41:45	0	0	0	0	21.3	21.3	21.3	21.3	0	0	0	0	0	0	0	0	0	0	0.1	0
31	3/24/2017	20:51:45	0	0	0	0	21.3	21.3	21.3	21.3	0	0	0	0	0	0	0	0	0	0	0	0
32	3/24/2017	21:01:45	0	0	0	0	21.3	21.3	21.3	21.3	0	0	0	0	0	0	0	0	0	0	0	0
33	3/24/2017	21:11:45	0	0	0	0	21.3	21.3	21.3	21.3	0	0	0	0	0	0	0	0	0	0	0	0
34	3/24/2017	21:21:45	0	0	0	0	21.3	21.3	21.3	21.3	0	0	0	0	0	0	0	0	0	0	0	0
35	3/24/2017	21:31:45	0	0	0	0	21.2	21.2	21.3	21.2	0	0	0	0	0	0	0	0	0	0	0.9	0.6
36	3/24/2017	21:41:45	0	0	0	0	21.2	21.2	21.3	21.2	0	0	0	0	0	0	0	0	0	0.5	3.4	1.3
37	3/24/2017	21:51:45	0	0	0	0	21.2	21.2	21.2	21.2	0	0	0	0	0	0	0	0	0.3	1.6	4.2	1.4
38	3/24/2017	22:01:45	0	0	0	0	21.2	21.2	21.2	21.2	0	0	0	0	0	0	0	0	0.8	3	5.3	3
39	3/24/2017	22:11:45	0	0	0	0	21.2	21.2	21.2	21.2	0	0	0	0	0	0	0	0	1.2	2.6	4.1	2.7
40	3/24/2017	22:21:45	0	0	0	0	21.2	21.2	21.2	21.2	0	0	0	0	0	0	0	0	0	0.9	2.9	0.6
41	3/24/2017	22:31:45	0	0	0	0	21.2	21.2	21.2	21.2	0	0	0	0	0	0	0	0	0	0.5	1.3	0
42	3/24/2017	22:41:45	0	0	0	0	21.2	21.2	21.2	21.2	0	0	0	0	0	0	0	0	0	0	0	0
43	3/24/2017	22:51:45	0	0	0	0	21.2	21.2	21.2	21.2	0	0	0	0	0	0	0	0	0	0.3	1.7	0
44	3/24/2017	23:01:45	0	0	0	0	21.2	21.2	21.2	21.2	0	0	0	0	0	0	0	0	0	0	0.2	0.1
45	3/24/2017	23:11:45	0	0	0	0	21.2	21.2	21.2	21.2	0	0	0	0	0	0	0	0	0	0	0.2	0
46	3/24/2017	23:21:45	0	0	0	0	21.2	21.2	21.2	21.2	0	0	0	0	0	0	0	0	0	0.7	3	1.8
47	3/24/2017	23:31:45	0	0	0	0	21.1	21.1	21.2	21.1	0	0	0	0	0	0	0	0	0	1.2	3	0
48	3/24/2017	23:41:45	0	0	0	0	21.1	21.1	21.2	21.1	0	0	0	0	0	0	0	0	0	0.5	2.2	2.1
49	3/24/2017	23:51:45	0	0	0	0	21.1	21.1	21.2	21.2	0	0	0	0	0	0	0	0	0.3	1.3	3.2	0.6
50	3/25/2017	0:01:45	0	0	0	0	21.2	21.2	21.2	21.2	0	0	0	0	0	0	0	0	0.1	0.9	2.4	2.4
51	3/25/2017	0:11:45	0	0	0	0	21.1	21.1	21.2	21.1	0	0	0	0	0	0	0	0	1.4	2.4	3.7	2.4
52	3/25/2017	0:21:45	0	0	0	0	21.1	21.1	21.2	21.1	0	0	0	0	0	0	0	0	0.2	1.2	2.8	0.5
53	3/25/2017	0:31:45	0	0	0	0	21.1	21.1	21.1	21.1	0	0	0	0	0	0	0	0	0	0.4	0.8	0.3
54	3/25/2017	0:41:45	0	0	0	0	21.1	21.1	21.1	21.1	0	0	0	0	0	0	0	0	0.1	1.4	3.3	3.1
55	3/25/2017	0:51:45	0	0	0	0	21.1	21.1	21.1	21.1	0	0	0	0	0	0	0	0	0.3	1.4	3.2	0.6
56	3/25/2017	1:01:45	0	0	0	0	21.1	21.1	21.1	21.1	0	0	0	0	0	0	0	0	0	0.5	1.1	0.3
57	3/25/2017	1:11:45	0	0	0	0	21.1	21.1	21.1	21.1	0	0	0	0	0	0	0	0	0	0	0.4	0
58	3/25/2017	1:21:45	0	0	0	0	21.1	21.1	21.1	21.1	0	0	0	0	0	0	0	0	0	0	0.1	0
59	3/25/2017	1:31:45	0	0	0	0	21.1	21.1	21.1	21.1	0	0	0	0	0	0	0	0	0	0	0.2	0
60	3/25/2017	1:41:45	0	0	0	0	21.1	21.1	21.1	21.1	0	0	0	0	0	0	0	0	0	0	0.1	0
61	3/25/2017	1:51:45	0	0	0	0	21.1	21.1	21.1	21.1	0	0	0	0	0	0	0	0	0	0	0	0
62	3/25/2017	2:01:45	0	0	0	0	21.1	21.1	21.1	21.1	0	0	0	0	0	0	0	0	0	0	0	0
63	3/25/2017	2:11:45	0	0	0	0	21.1	21.1	21.1	21.1	0	0	0	0	0	0	0	0	0	0	0	0
64	3/25/2017	2:21:45	0	0	0	0	21.1	21.1	21.1	21.1	0	0	0	0	0	0	0	0	0	0	0.1	0
65	3/25/2017	2:31:45	0	0	0	0	21.1	21.1	21.1	21.1	0	0	0	0	0	0	0	0	0	0	0	0
66	3/25/2017	2:41:45	0	0	0	0	21.1	21.1	21.1	21.1	0	0	0	0	0	0	0	0	0	0	0.1	0
67	3/25/2017	2:51:45	0	0	0	0	21.1	21.1	21.1	21.1	0	0	0	0	0	0	0	0	0	0	0	0
68	3/25/2017	3:01:45	0	0	0	0	21.1	21.1	21.1	21.1	0	0	0	0	0	0	0	0	0	0.3	1.4	1.2
69	3/25/2017	3:11:45	0	0	0	0	21.1	21.1	21.1	21.1	0	0	0	0	0	0	0	0	0	0.8	1.3	0.2
70	3/25/2017	3:21:45	0	0	0	0	21.1	21.1	21.1	21.1	0	0	0	0	0	0	0	0	0	0.3	1.2	0
71	3/25/2017	3:31:45	0	0	0	0	21.1	21.1	21.1	21.1	0	0	0	0	0	0	0	0	0	0	0.4	0
72	3/25/2017	3:41:45	0	0	0	0	21.1	21.1	21.1	21.1	0	0	0	0	0	0	0	0	0	0.4	1.3	0.1



130	3/25/2017	13:21:45	0	0	0	0	21.3	21.3	21.3	21.3	0	0	0	0	0	0	0	0	0	0	0	0.1	0
131	3/25/2017	13:31:45	0	0	0	0	21.3	21.3	21.4	21.4	0	0	0	0	0	0	0	0	0	0	0	0	0
132	3/25/2017	13:41:45	0	0	0	0	21.3	21.3	21.4	21.4	0	0	0	0	0	0	0	0	0	0	0	0	0
133	3/25/2017	13:51:45	0	0	0	0	21.3	21.3	21.4	21.4	0	0	0	0	0	0	0	0	0	0	0	0	0
134	3/25/2017	14:01:45	0	0	0	0	21.4	21.4	21.4	21.4	0	0	0	0	0	0	0	0	0	0	0	0	0
135	3/25/2017	14:11:45	0	0	0	0	21.4	21.4	21.4	21.4	0	0	0	0	0	0	0	0	0	0	0	0	0
136	3/25/2017	14:21:45	0	0	0	0	21.4	21.4	21.4	21.4	0	0	0	0	0	0	0	0	0	0	0	0	0
137	3/25/2017	14:31:45	0	0	0	0	21.4	21.4	21.4	21.4	0	0	0	0	0	0	0	0	0	0	0	0	0
138	3/25/2017	14:41:45	0	0	0	0	21.4	21.4	21.4	21.4	0	0	0	0	0	0	0	0	0	0	0	0	0
139	3/25/2017	14:51:45	0	0	0	0	21.4	21.4	21.4	21.4	0	0	0	0	0	0	0	0	0	0	0	0	0
140	3/25/2017	15:01:45	0	0	0	0	21.4	21.4	21.4	21.4	0	0	0	0	0	0	0	0	0	0	0	0	0
141	3/25/2017	15:11:45	0	0	0	0	21.4	21.4	21.4	21.4	0	0	0	0	0	0	0	0	0	0	0	0	0
142	3/25/2017	15:21:45	0	0	0	0	21.4	21.4	21.4	21.4	0	0	0	0	0	0	0	0	0	0	0	0	0
143	3/25/2017	15:31:45	0	0	0	0	21.4	21.4	21.4	21.4	0	0	0	0	0	0	0	0	0	0	0	0	0
144	3/25/2017	15:41:45	0	0	0	0	21.4	21.4	21.4	21.4	0	0	0	0	0	0	0	0	0	0	0	0	0
Peak			0	0	0	0	21.4	21.4	21.4	21.4	0	0	0	0	0	0	0	0	0	4.2	10.4	29.6	19.8
Min			0	0	0	0	17.7	20.9	20.9	20.9	0	0	0	0	0	0	0	0	0	0	0	0	0
Average			0	0	0	0	21.1	21.2	21.2	21.2	0	0	0	0	0	0	0	0	0	0.2	0.8	2.5	1

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TWA/STEL

Index	Date/Time	H2S(ppm) (TWA)	H2S(ppm) (STEL)	CO(ppm) (TWA)	CO(ppm) (STEL)	VOC(ppm) (TWA)	VOC(ppm) (STEL)
1	3/24/2017 15:51:45	0	---	0	---	0	---
2	3/24/2017 16:01:45	0	0	0	0	0	0
3	3/24/2017 16:11:45	0	0	0	0	0	0
4	3/24/2017 16:21:45	0	0	0	0	0	0
5	3/24/2017 16:31:45	0	0	0	0	0	0
6	3/24/2017 16:41:45	0	0	0	0	0	0
7	3/24/2017 16:51:45	0	0	0	0	0	0
8	3/24/2017 17:01:45	0	0	0	0	0	0
9	3/24/2017 17:11:45	0	0	0	0	0	0
10	3/24/2017 17:21:45	0	0	0	0	0	0
11	3/24/2017 17:31:45	0	0	0	0	0	0
12	3/24/2017 17:41:45	0	0	0	0	0	0
13	3/24/2017 17:51:45	0	0	0	0	0	0
14	3/24/2017 18:01:45	0	0	0	0	0	0
15	3/24/2017 18:11:45	0	0	0	0	0	0
16	3/24/2017 18:21:45	0	0	0	0	0	0
17	3/24/2017 18:31:45	0	0	0	0	0	0
18	3/24/2017 18:41:45	0	0	0	0	0	0
19	3/24/2017 18:51:45	0	0	0	0	0	0
20	3/24/2017 19:01:45	0	0	0	0	0	0
21	3/24/2017 19:11:45	0	0	0	0	0.1	4.6
22	3/24/2017 19:21:45	0	0	0	0	0.5	15.9
23	3/24/2017 19:31:45	0	0	0	0	0.7	16.7
24	3/24/2017 19:41:45	0	0	0	0	0.7	5.6
25	3/24/2017 19:51:45	0	0	0	0	0.7	0.5
26	3/24/2017 20:01:45	0	0	0	0	0.7	0.9
27	3/24/2017 20:11:45	0	0	0	0	0.7	0.5
28	3/24/2017 20:21:45	0	0	0	0	0.7	0
29	3/24/2017 20:31:45	0	0	0	0	0.7	0
30	3/24/2017 20:41:45	0	0	0	0	0.7	0
31	3/24/2017 20:51:45	0	0	0	0	0.7	0
32	3/24/2017 21:01:45	0	0	0	0	0.7	0
33	3/24/2017 21:11:45	0	0	0	0	0.7	0
34	3/24/2017 21:21:45	0	0	0	0	0.7	0

35	3/24/2017	21:31:45	0	0	0	0	0.7	0.4
36	3/24/2017	21:41:45	0	0	0	0	0.7	1.3
37	3/24/2017	21:51:45	0	0	0	0	0.8	1.8
38	3/24/2017	22:01:45	0	0	0	0	0.8	2.9
39	3/24/2017	22:11:45	0	0	0	0	0.9	3.8
40	3/24/2017	22:21:45	0	0	0	0	0.9	2.2
41	3/24/2017	22:31:45	0	0	0	0	0.9	0.4
42	3/24/2017	22:41:45	0	0	0	0	0.9	0
43	3/24/2017	22:51:45	0	0	0	0	0.9	0
44	3/24/2017	23:01:45	0	0	0	0	0.9	0.1
45	3/24/2017	23:11:45	0	0	0	0	0.9	0.1
46	3/24/2017	23:21:45	0	0	0	0	0.9	1.2
47	3/24/2017	23:31:45	0	0	0	0	0.9	1.2
48	3/24/2017	23:41:45	0	0	0	0	1	1.4
49	3/24/2017	23:51:45	0	0	0	0	1	1.8
50	3/25/2017	0:01:45	0	0	0	0	1	2
51	3/25/2017	0:11:45	0	0	0	0	1.1	3.2
52	3/25/2017	0:21:45	0	0	0	0	1.1	1.9
53	3/25/2017	0:31:45	0	0	0	0	1.1	0.5
54	3/25/2017	0:41:45	0	0	0	0	1.2	2.3
55	3/25/2017	0:51:45	0	0	0	0	1.2	2.5
56	3/25/2017	1:01:45	0	0	0	0	1.2	0.6
57	3/25/2017	1:11:45	0	0	0	0	1.2	0.2
58	3/25/2017	1:21:45	0	0	0	0	1.2	0
59	3/25/2017	1:31:45	0	0	0	0	1.2	0
60	3/25/2017	1:41:45	0	0	0	0	1.2	0
61	3/25/2017	1:51:45	0	0	0	0	1.2	0
62	3/25/2017	2:01:45	0	0	0	0	1.2	0
63	3/25/2017	2:11:45	0	0	0	0	1.2	0
64	3/25/2017	2:21:45	0	0	0	0	1.2	0
65	3/25/2017	2:31:45	0	0	0	0	1.2	0
66	3/25/2017	2:41:45	0	0	0	0	1.2	0
67	3/25/2017	2:51:45	0	0	0	0	1.2	0
68	3/25/2017	3:01:45	0	0	0	0	1.2	0.8
69	3/25/2017	3:11:45	0	0	0	0	1.2	0.9
70	3/25/2017	3:21:45	0	0	0	0	1.2	0.1
71	3/25/2017	3:31:45	0	0	0	0	1.2	0
72	3/25/2017	3:41:45	0	0	0	0	1.2	0.1
73	3/25/2017	3:51:45	0	0	0	0	1.2	0.1
74	3/25/2017	4:01:45	0	0	0	0	1.2	0
75	3/25/2017	4:11:45	0	0	0	0	1.3	2.9
76	3/25/2017	4:21:45	0	0	0	0	1.3	2.9
77	3/25/2017	4:31:45	0	0	0	0	1.3	0.4
78	3/25/2017	4:41:45	0	0	0	0	1.3	0.4
79	3/25/2017	4:51:45	0	0	0	0	1.4	3.2
80	3/25/2017	5:01:45	0	0	0	0	1.5	6.1
81	3/25/2017	5:11:45	0	0	0	0	1.5	3.3
82	3/25/2017	5:21:45	0	0	0	0	1.6	1.1
83	3/25/2017	5:31:45	0	0	0	0	1.6	0.7
84	3/25/2017	5:41:45	0	0	0	0	1.6	0.3
85	3/25/2017	5:51:45	0	0	0	0	1.6	0.3
86	3/25/2017	6:01:45	0	0	0	0	1.6	0
87	3/25/2017	6:11:45	0	0	0	0	1.7	5.5
88	3/25/2017	6:21:45	0	0	0	0	1.8	6
89	3/25/2017	6:31:45	0	0	0	0	1.8	3.6
90	3/25/2017	6:41:45	0	0	0	0	1.8	3.1
91	3/25/2017	6:51:45	0	0	0	0	2	3.7

92	3/25/2017	7:01:45	0	0	0	0	2	4.1
93	3/25/2017	7:11:45	0	0	0	0	2	1.9
94	3/25/2017	7:21:45	0	0	0	0	2.2	6.2
95	3/25/2017	7:31:45	0	0	0	0	2.2	7
96	3/25/2017	7:41:45	0	0	0	0	2.2	2.4
97	3/25/2017	7:51:45	0	0	0	0	2.2	0.1
98	3/25/2017	8:01:45	0	0	0	0	2.3	0.6
99	3/25/2017	8:11:45	0	0	0	0	2.3	0.6
100	3/25/2017	8:21:45	0	0	0	0	2.3	1.8
101	3/25/2017	8:31:45	0	0	0	0	2.4	3.5
102	3/25/2017	8:41:45	0	0	0	0	2.4	2.7
103	3/25/2017	8:51:45	0	0	0	0	2.8	14.2
104	3/25/2017	9:01:45	0	0	0	0	2.9	16
105	3/25/2017	9:11:45	0	0	0	0	2.9	4.2
106	3/25/2017	9:21:45	0	0	0	0	3	2.3
107	3/25/2017	9:31:45	0	0	0	0	3	0.9
108	3/25/2017	9:41:45	0	0	0	0	3	0.1
109	3/25/2017	9:51:45	0	0	0	0	3	0.1
110	3/25/2017	10:01:45	0	0	0	0	3	0.7
111	3/25/2017	10:11:45	0	0	0	0	3	0.5
112	3/25/2017	10:21:45	0	0	0	0	3	0
113	3/25/2017	10:31:45	0	0	0	0	3	0
114	3/25/2017	10:41:45	0	0	0	0	3	0
115	3/25/2017	10:51:45	0	0	0	0	3	0
116	3/25/2017	11:01:45	0	0	0	0	3	0
117	3/25/2017	11:11:45	0	0	0	0	3	0
118	3/25/2017	11:21:45	0	0	0	0	3	0
119	3/25/2017	11:31:45	0	0	0	0	3	0
120	3/25/2017	11:41:45	0	0	0	0	3	0
121	3/25/2017	11:51:45	0	0	0	0	3	0
122	3/25/2017	12:01:45	0	0	0	0	3	0
123	3/25/2017	12:11:45	0	0	0	0	3	0
124	3/25/2017	12:21:45	0	0	0	0	3	0
125	3/25/2017	12:31:45	0	0	0	0	3	0
126	3/25/2017	12:41:45	0	0	0	0	3	0
127	3/25/2017	12:51:45	0	0	0	0	3	0
128	3/25/2017	13:01:45	0	0	0	0	3	0
129	3/25/2017	13:11:45	0	0	0	0	3	0
130	3/25/2017	13:21:45	0	0	0	0	3	0
131	3/25/2017	13:31:45	0	0	0	0	3	0
132	3/25/2017	13:41:45	0	0	0	0	3	0
133	3/25/2017	13:51:45	0	0	0	0	3	0
134	3/25/2017	14:01:45	0	0	0	0	3	0
135	3/25/2017	14:11:45	0	0	0	0	3	0
136	3/25/2017	14:21:45	0	0	0	0	3	0
137	3/25/2017	14:31:45	0	0	0	0	3	0
138	3/25/2017	14:41:45	0	0	0	0	3	0
139	3/25/2017	14:51:45	0	0	0	0	3	0
140	3/25/2017	15:01:45	0	0	0	0	3	0
141	3/25/2017	15:11:45	0	0	0	0	3	0
142	3/25/2017	15:21:45	0	0	0	0	3	0
143	3/25/2017	15:31:45	0	0	0	0	3	0
144	3/25/2017	15:41:45	0	0	0	0	3	0

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17/03/25 15:41  
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Summary









134	3/26/2017	14:01:45	0	0	0	0	21.3	21.3	21.3	21.3	0	0	0	0	0	0	0	0	0	0	0	0	0
135	3/26/2017	14:11:45	0	0	0	0	21.3	21.3	21.3	21.3	0	0	0	0	0	0	0	0	0	0	0	0	0
136	3/26/2017	14:21:45	0	0	0	0	21.3	21.3	21.3	21.3	0	0	0	0	0	0	0	0	0	0	0	0	0
137	3/26/2017	14:31:45	0	0	0	0	21.3	21.3	21.3	21.3	0	0	0	0	0	0	0	0	0	0	0	0	0
138	3/26/2017	14:41:45	0	0	0	0	21.3	21.3	21.3	21.3	0	0	0	0	0	0	0	0	0	0	0	0	0
139	3/26/2017	14:51:45	0	0	0	0	21.3	21.3	21.3	21.3	0	0	0	0	0	0	0	0	0	0	0	0	0
140	3/26/2017	15:01:45	0	0	0	0	21.3	21.3	21.3	21.3	0	0	0	0	0	0	0	0	0	0	0	0	0
141	3/26/2017	15:11:45	0	0	0	0	21.3	21.3	21.3	21.3	0	0	0	0	0	0	0	0	0	0	0	0.4	0
142	3/26/2017	15:21:45	0	0	0	0	21.3	21.3	21.3	21.3	0	0	0	0	0	0	0	0	0	0	0	0.1	0
143	3/26/2017	15:31:45	0	0	0	0	21.3	21.3	21.3	21.3	0	0	0	0	0	0	0	0	0	0	0	0	0
144	3/26/2017	15:41:45	0	0	0	0	21.3	21.3	21.3	21.3	0	0	0	0	0	0	0	0	0	0	0	0	0
Peak			0	0	0	0	21.4	21.4	21.6	21.4	0	0	0	0	0	0	0	0	0	0	0.1	2.6	0
Min			0	0	0	0	21.1	21.1	21.1	21.1	0	0	0	0	0	0	0	0	0	0	0	0	0
Average			0	0	0	0	21.2	21.2	21.2	21.2	0	0	0	0	0	0	0	0	0	0	0	0	0

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TWA/STEL

Index	Date/Time	H2S(ppm)		CO(ppm)		VOC(ppm)	
		(TWA)	(STEL)	(TWA)	(STEL)	(TWA)	(STEL)
1	3/25/2017 15:51:45	0	---	0	---	0	---
2	3/25/2017 16:01:45	0	0	0	0	0	0
3	3/25/2017 16:11:45	0	0	0	0	0	0
4	3/25/2017 16:21:45	0	0	0	0	0	0
5	3/25/2017 16:31:45	0	0	0	0	0	0
6	3/25/2017 16:41:45	0	0	0	0	0	0
7	3/25/2017 16:51:45	0	0	0	0	0	0
8	3/25/2017 17:01:45	0	0	0	0	0	0
9	3/25/2017 17:11:45	0	0	0	0	0	0
10	3/25/2017 17:21:45	0	0	0	0	0	0
11	3/25/2017 17:31:45	0	0	0	0	0	0
12	3/25/2017 17:41:45	0	0	0	0	0	0
13	3/25/2017 17:51:45	0	0	0	0	0	0
14	3/25/2017 18:01:45	0	0	0	0	0	0
15	3/25/2017 18:11:45	0	0	0	0	0	0
16	3/25/2017 18:21:45	0	0	0	0	0	0
17	3/25/2017 18:31:45	0	0	0	0	0	0
18	3/25/2017 18:41:45	0	0	0	0	0	0
19	3/25/2017 18:51:45	0	0	0	0	0	0
20	3/25/2017 19:01:45	0	0	0	0	0	0
21	3/25/2017 19:11:45	0	0	0	0	0	0
22	3/25/2017 19:21:45	0	0	0	0	0	0
23	3/25/2017 19:31:45	0	0	0	0	0	0
24	3/25/2017 19:41:45	0	0	0	0	0	0
25	3/25/2017 19:51:45	0	0	0	0	0	0
26	3/25/2017 20:01:45	0	0	0	0	0	0
27	3/25/2017 20:11:45	0	0	0	0	0	0
28	3/25/2017 20:21:45	0	0	0	0	0	0
29	3/25/2017 20:31:45	0	0	0	0	0	0
30	3/25/2017 20:41:45	0	0	0	0	0	0
31	3/25/2017 20:51:45	0	0	0	0	0	0
32	3/25/2017 21:01:45	0	0	0	0	0	0
33	3/25/2017 21:11:45	0	0	0	0	0	0
34	3/25/2017 21:21:45	0	0	0	0	0	0
35	3/25/2017 21:31:45	0	0	0	0	0	0
36	3/25/2017 21:41:45	0	0	0	0	0	0
37	3/25/2017 21:51:45	0	0	0	0	0	0
38	3/25/2017 22:01:45	0	0	0	0	0	0

39	3/25/2017	22:11:45	0	0	0	0	0	0
40	3/25/2017	22:21:45	0	0	0	0	0	0
41	3/25/2017	22:31:45	0	0	0	0	0	0
42	3/25/2017	22:41:45	0	0	0	0	0	0
43	3/25/2017	22:51:45	0	0	0	0	0	0
44	3/25/2017	23:01:45	0	0	0	0	0	0
45	3/25/2017	23:11:45	0	0	0	0	0	0
46	3/25/2017	23:21:45	0	0	0	0	0	0
47	3/25/2017	23:31:45	0	0	0	0	0	0
48	3/25/2017	23:41:45	0	0	0	0	0	0
49	3/25/2017	23:51:45	0	0	0	0	0	0
50	3/26/2017	0:01:45	0	0	0	0	0	0
51	3/26/2017	0:11:45	0	0	0	0	0	0
52	3/26/2017	0:21:45	0	0	0	0	0	0
53	3/26/2017	0:31:45	0	0	0	0	0	0
54	3/26/2017	0:41:45	0	0	0	0	0	0
55	3/26/2017	0:51:45	0	0	0	0	0	0
56	3/26/2017	1:01:45	0	0	0	0	0	0
57	3/26/2017	1:11:45	0	0	0	0	0	0
58	3/26/2017	1:21:45	0	0	0	0	0	0
59	3/26/2017	1:31:45	0	0	0	0	0	0
60	3/26/2017	1:41:45	0	0	0	0	0	0
61	3/26/2017	1:51:45	0	0	0	0	0	0
62	3/26/2017	2:01:45	0	0	0	0	0	0
63	3/26/2017	2:11:45	0	0	0	0	0	0
64	3/26/2017	2:21:45	0	0	0	0	0	0
65	3/26/2017	2:31:45	0	0	0	0	0	0
66	3/26/2017	2:41:45	0	0	0	0	0	0
67	3/26/2017	2:51:45	0	0	0	0	0	0
68	3/26/2017	3:01:45	0	0	0	0	0	0
69	3/26/2017	3:11:45	0	0	0	0	0	0
70	3/26/2017	3:21:45	0	0	0	0	0	0
71	3/26/2017	3:31:45	0	0	0	0	0	0
72	3/26/2017	3:41:45	0	0	0	0	0	0
73	3/26/2017	3:51:45	0	0	0	0	0	0
74	3/26/2017	4:01:45	0	0	0	0	0	0
75	3/26/2017	4:11:45	0	0	0	0	0	0
76	3/26/2017	4:21:45	0	0	0	0	0	0
77	3/26/2017	4:31:45	0	0	0	0	0	0
78	3/26/2017	4:41:45	0	0	0	0	0	0
79	3/26/2017	4:51:45	0	0	0	0	0	0
80	3/26/2017	5:01:45	0	0	0	0	0	0
81	3/26/2017	5:11:45	0	0	0	0	0	0
82	3/26/2017	5:21:45	0	0	0	0	0	0
83	3/26/2017	5:31:45	0	0	0	0	0	0
84	3/26/2017	5:41:45	0	0	0	0	0	0
85	3/26/2017	5:51:45	0	0	0	0	0	0
86	3/26/2017	6:01:45	0	0	0	0	0	0
87	3/26/2017	6:11:45	0	0	0	0	0	0
88	3/26/2017	6:21:45	0	0	0	0	0	0
89	3/26/2017	6:31:45	0	0	0	0	0	0
90	3/26/2017	6:41:45	0	0	0	0	0	0
91	3/26/2017	6:51:45	0	0	0	0	0	0
92	3/26/2017	7:01:45	0	0	0	0	0	0
93	3/26/2017	7:11:45	0	0	0	0	0	0
94	3/26/2017	7:21:45	0	0	0	0	0	0
95	3/26/2017	7:31:45	0	0	0	0	0	0

96	3/26/2017	7:41:45	0	0	0	0	0	0
97	3/26/2017	7:51:45	0	0	0	0	0	0
98	3/26/2017	8:01:45	0	0	0	0	0	0
99	3/26/2017	8:11:45	0	0	0	0	0	0
100	3/26/2017	8:21:45	0	0	0	0	0	0
101	3/26/2017	8:31:45	0	0	0	0	0	0
102	3/26/2017	8:41:45	0	0	0	0	0	0
103	3/26/2017	8:51:45	0	0	0	0	0	0
104	3/26/2017	9:01:45	0	0	0	0	0	0
105	3/26/2017	9:11:45	0	0	0	0	0	0
106	3/26/2017	9:21:45	0	0	0	0	0	0
107	3/26/2017	9:31:45	0	0	0	0	0	0
108	3/26/2017	9:41:45	0	0	0	0	0	0
109	3/26/2017	9:51:45	0	0	0	0	0	0
110	3/26/2017	10:01:45	0	0	0	0	0	0
111	3/26/2017	10:11:45	0	0	0	0	0	0
112	3/26/2017	10:21:45	0	0	0	0	0	0
113	3/26/2017	10:31:45	0	0	0	0	0	0
114	3/26/2017	10:41:45	0	0	0	0	0	0
115	3/26/2017	10:51:45	0	0	0	0	0	0
116	3/26/2017	11:01:45	0	0	0	0	0	0
117	3/26/2017	11:11:45	0	0	0	0	0	0
118	3/26/2017	11:21:45	0	0	0	0	0	0
119	3/26/2017	11:31:45	0	0	0	0	0	0
120	3/26/2017	11:41:45	0	0	0	0	0	0
121	3/26/2017	11:51:45	0	0	0	0	0	0
122	3/26/2017	12:01:45	0	0	0	0	0	0
123	3/26/2017	12:11:45	0	0	0	0	0	0
124	3/26/2017	12:21:45	0	0	0	0	0	0
125	3/26/2017	12:31:45	0	0	0	0	0	0
126	3/26/2017	12:41:45	0	0	0	0	0	0
127	3/26/2017	12:51:45	0	0	0	0	0	0
128	3/26/2017	13:01:45	0	0	0	0	0	0
129	3/26/2017	13:11:45	0	0	0	0	0	0
130	3/26/2017	13:21:45	0	0	0	0	0	0
131	3/26/2017	13:31:45	0	0	0	0	0	0
132	3/26/2017	13:41:45	0	0	0	0	0	0
133	3/26/2017	13:51:45	0	0	0	0	0	0
134	3/26/2017	14:01:45	0	0	0	0	0	0
135	3/26/2017	14:11:45	0	0	0	0	0	0
136	3/26/2017	14:21:45	0	0	0	0	0	0
137	3/26/2017	14:31:45	0	0	0	0	0	0
138	3/26/2017	14:41:45	0	0	0	0	0	0
139	3/26/2017	14:51:45	0	0	0	0	0	0
140	3/26/2017	15:01:45	0	0	0	0	0	0
141	3/26/2017	15:11:45	0	0	0	0	0	0
142	3/26/2017	15:21:45	0	0	0	0	0	0
143	3/26/2017	15:31:45	0	0	0	0	0	0
144	3/26/2017	15:41:45	0	0	0	0	0	0

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17/03/26 15:41  
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Summary  
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Unit Name MultiRAE(PGM-6228)  
Unit SN MBB3Z187P8  
Unit Firmware Ver V1.10



24	3/26/2017	19:41:45	0	0	0	0	21.3	21.3	21.3	21.3	0	0	0	0	0	0	0	0	0	0	0	0
25	3/26/2017	19:51:45	0	0	0	0	21.3	21.3	21.3	21.3	0	0	0	0	0	0	0	0	0	0	0	0
26	3/26/2017	20:01:45	0	0	0	0	21.3	21.3	21.3	21.3	0	0	0	0	0	0	0	0	0	0	0	0
27	3/26/2017	20:11:45	0	0	0	0	21.3	21.3	21.3	21.3	0	0	0	0	0	0	0	0	0	0	0	0
28	3/26/2017	20:21:45	0	0	0	0	21.3	21.3	21.3	21.3	0	0	0	0	0	0	0	0	0	0	0	0
29	3/26/2017	20:31:45	0	0	0	0	21.2	21.2	21.3	21.3	0	0	0	0	0	0	0	0	0	0	0.1	0
30	3/26/2017	20:41:45	0	0	0	0	21.3	21.3	21.3	21.3	0	0	0	0	0	0	0	0	0	0	0	0
31	3/26/2017	20:51:45	0	0	0	0	21.3	21.3	21.3	21.3	0	0	0	0	0	0	0	0	0	0	0	0
32	3/26/2017	21:01:45	0	0	0	0	21.2	21.2	21.3	21.3	0	0	0	0	0	0	0	0	0	0	0	0
33	3/26/2017	21:11:45	0	0	0	0	21.2	21.2	21.4	21.2	0	0	0	0	0	0	0	0	0	0	0.2	0
34	3/26/2017	21:21:45	0	0	0	0	21.2	21.2	21.4	21.2	0	0	0	0	0	0	0	0	0	0	0	0
35	3/26/2017	21:31:45	0	0	0	0	21.2	21.2	21.4	21.3	0	0	0	0	0	0	0	0	0	0	0	0
36	3/26/2017	21:41:45	0	0	0	0	21.2	21.2	21.4	21.2	0	0	0	0	0	0	0	0	0	2	6.8	0
37	3/26/2017	21:51:45	0	0	0	0	21.2	21.2	21.4	21.2	0	0	0	0	0	0	0	0	0	0	0	0
38	3/26/2017	22:01:45	0	0	0	0	21.2	21.2	21.4	21.2	0	0	0	0	0	0	0	0	0	0	0	0
39	3/26/2017	22:11:45	0	0	0	0	21.2	21.2	21.4	21.2	0	0	0	0	0	0	0	0	0	0	0	0
40	3/26/2017	22:21:45	0	0	0	0	21.2	21.2	21.4	21.2	0	0	0	0	0	0	0	0	0	0	0	0
41	3/26/2017	22:31:45	0	0	0	0	21.2	21.2	21.4	21.2	0	0	0	0	0	0	0	0	0	0	0	0
42	3/26/2017	22:41:45	0	0	0	0	21.2	21.2	21.4	21.2	0	0	0	0	0	0	0	0	0	0	0	0
43	3/26/2017	22:51:45	0	0	0	0	21.2	21.2	21.4	21.2	0	0	0	0	0	0	0	0	0	0	0	0
44	3/26/2017	23:01:45	0	0	0	0	21.2	21.2	21.4	21.2	0	0	0	0	0	0	0	0	0	0	0	0
45	3/26/2017	23:11:45	0	0	0	0	21.2	21.2	21.2	21.2	0	0	0	0	0	0	0	0	0	0	0	0
46	3/26/2017	23:21:45	0	0	0	0	21.2	21.2	21.4	21.2	0	0	0	0	0	0	0	0	0	0	0	0
47	3/26/2017	23:31:45	0	0	0	0	21.2	21.2	21.3	21.2	0	0	0	0	0	0	0	0	0	0	0	0
48	3/26/2017	23:41:45	0	0	0	0	21.2	21.2	21.4	21.2	0	0	0	0	0	0	0	0	0	0	0	0
49	3/26/2017	23:51:45	0	0	0	0	21.2	21.2	21.4	21.2	0	0	0	0	0	0	0	0	0	0	0	0
50	3/27/2017	0:01:45	0	0	0	0	21.2	21.2	21.4	21.2	0	0	0	0	0	0	0	0	0	0	0	0
51	3/27/2017	0:11:45	0	0	0	0	21.2	21.2	21.4	21.2	0	0	0	0	0	0	0	0	0	0	0	0
52	3/27/2017	0:21:45	0	0	0	0	21.2	21.2	21.4	21.2	0	0	0	0	0	0	0	0	0	0	0	0
53	3/27/2017	0:31:45	0	0	0	0	21.2	21.2	21.2	21.2	0	0	0	0	0	0	0	0	0	0	0	0
54	3/27/2017	0:41:45	0	0	0	0	21.2	21.2	21.2	21.2	0	0	0	0	0	0	0	0	0	0	0	0
55	3/27/2017	0:51:45	0	0	0	0	21.2	21.2	21.4	21.2	0	0	0	0	0	0	0	0	0	0	0	0
56	3/27/2017	1:01:45	0	0	0	0	21.2	21.2	21.6	21.4	0	0	0	0	0	0	0	0	0	0	0	0
57	3/27/2017	1:11:45	0	0	0	0	21.2	21.2	21.4	21.2	0	0	0	0	0	0	0	0	0	0	0	0
58	3/27/2017	1:21:45	0	0	0	0	21.2	21.2	21.4	21.2	0	0	0	0	0	0	0	0	0	0	0	0
59	3/27/2017	1:31:45	0	0	0	0	21.2	21.2	21.3	21.2	0	0	0	0	0	0	0	0	0	0	0	0
60	3/27/2017	1:41:45	0	0	0	0	21.2	21.2	21.2	21.2	0	0	0	0	0	0	0	0	0	0	0.2	0
61	3/27/2017	1:51:45	0	0	0	0	21.2	21.2	21.4	21.2	0	0	0	0	0	0	0	0	0	0	0.1	0
62	3/27/2017	2:01:45	0	0	0	0	21.2	21.2	21.3	21.2	0	0	0	0	0	0	0	0	0	0.3	3.1	0.7
63	3/27/2017	2:11:45	0	0	0	0	21.2	21.2	21.3	21.2	0	0	0	0	0	0	0	0	0	0.2	1.2	0
64	3/27/2017	2:21:45	0	0	0	0	21.1	21.2	21.3	21.2	0	0	0	0	0	0	0	0	0	0.3	0.7	0.6
65	3/27/2017	2:31:45	0	0	0	0	21.2	21.2	21.3	21.2	0	0	0	0	0	0	0	0	0	0.2	3.5	0
66	3/27/2017	2:41:45	0	0	0	0	21.2	21.2	21.4	21.2	0	0	0	0	0	0	0	0	0	0	0.1	0
67	3/27/2017	2:51:45	0	0	0	0	21.2	21.2	21.3	21.2	0	0	0	0	0	0	0	0	0	0.3	2.3	0.4
68	3/27/2017	3:01:45	0	0	0	0	21.2	21.2	21.3	21.2	0	0	0	0	0	0	0	0	0	0.1	0.7	0.7
69	3/27/2017	3:11:45	0	0	0	0	21.2	21.2	21.3	21.2	0	0	0	0	0	0	0	0	0	0.8	2.6	0.8
70	3/27/2017	3:21:45	0	0	0	0	21.1	21.2	21.3	21.2	0	0	0	0	0	0	0	0	0	0.4	1	0
71	3/27/2017	3:31:45	0	0	0	0	21.1	21.2	21.3	21.2	0	0	0	0	0	0	0	0	0	0.7	5.1	2.6
72	3/27/2017	3:41:45	0	0	0	0	21.2	21.2	21.3	21.2	0	0	0	0	0	0	0	0	0	0.5	2.8	0.2
73	3/27/2017	3:51:45	0	0	0	0	21.2	21.2	21.2	21.2	0	0	0	0	0	0	0	0	0	1	3.7	0.2
74	3/27/2017	4:01:45	0	0	0	0	21.2	21.2	21.2	21.2	0	0	0	0	0	0	0	0	0	1	5	0
75	3/27/2017	4:11:45	0	0	0	0	21.2	21.2	21.2	21.2	0	0	0	0	0	0	0	0	0	0	0.7	0.2
76	3/27/2017	4:21:45	0	0	0	0	21.2	21.2	21.2	21.2	0	0	0	0	0	0	0	0	0	0.5	1.2	0
77	3/27/2017	4:31:45	0	0	0	0	21.2	21.2	21.4	21.2	0	0	0	0	0	0	0	0	0	0	0	0
78	3/27/2017	4:41:45	0	0	0	0	21.2	21.2	21.2	21.2	0	0	0	0	0	0	0	0	0	0.1	1.9	0
79	3/27/2017	4:51:45	0	0	0	0	21.2	21.2	21.2	21.2	0	0	0	0	0	0	0	0	0	0.6	3.1	0.4
80	3/27/2017	5:01:45	0	0	0	0	21.2	21.2	21.2	21.2	0	0	0	0	0	0	0	0	0	1.8	3.7	2.9



81	3/27/2017	5:11:45	0	0	0	0	21.2	21.2	21.2	21.2	0	0	0	0	0	0	0	0	1.4	4	9.9	5.6
82	3/27/2017	5:21:45	0	0	0	0	21.1	21.1	21.2	21.2	0	0	0	0	0	0	0	0	3.5	10.7	29.1	6.7
83	3/27/2017	5:31:45	0	0	0	0	21.1	21.1	21.2	21.2	0	0	0	0	0	0	0	0	0	2.5	9.4	0
84	3/27/2017	5:41:45	0	0	0	0	21.1	21.1	21.2	21.2	0	0	0	0	0	0	0	0	0	0.3	1.5	0
85	3/27/2017	5:51:45	0	0	0	0	21.2	21.2	21.2	21.2	0	0	0	0	0	0	0	0	0	0.2	1.2	0
86	3/27/2017	6:01:45	0	0	0	0	21.2	21.2	21.2	21.2	0	0	0	0	0	0	0	0	0	0	0	0
87	3/27/2017	6:11:45	0	0	0	0	21.2	21.2	21.2	21.2	0	0	0	0	0	0	0	0	0	1.8	8.5	0.3
88	3/27/2017	6:21:45	0	0	0	0	21.2	21.2	21.2	21.2	0	0	0	0	0	0	0	0	0	0.5	5.7	0
89	3/27/2017	6:31:45	0	0	0	0	21.1	21.1	21.2	21.2	0	0	0	0	0	0	0	0	0	0	0	0
90	3/27/2017	6:41:45	0	0	0	0	21.1	21.1	21.2	21.2	0	0	0	0	0	0	0	0	0	0	0	0
91	3/27/2017	6:51:45	0	0	0	0	21.2	21.2	21.2	21.2	0	0	0	0	0	0	0	0	0	0	0	0
92	3/27/2017	7:01:45	0	0	0	0	21.1	21.1	21.2	21.1	0	0	0	0	0	0	0	0	0	2.3	24	23.2
93	3/27/2017	7:11:45	0	0	0	0	21.1	21.1	21.2	21.1	0	0	0	0	0	0	0	0	0.2	6.4	36.9	0.2
94	3/27/2017	7:21:45	0	0	0	0	21.1	21.1	21.1	21.1	0	0	0	0	0	0	0	0	0.1	9.7	29.1	1.2
95	3/27/2017	7:31:45	0	0	0	0	21.1	21.1	21.2	21.1	0	0	0	0	0	0	0	0	0.2	2.5	7.7	3.1
96	3/27/2017	7:41:45	0	0	0	0	21.1	21.1	21.2	21.2	0	0	0	0	0	0	0	0	0.1	3.3	15.2	0.1
97	3/27/2017	7:51:45	0	0	0	0	21.1	21.1	21.2	21.1	0	0	0	0	0	0	0	0	0	0.2	1.6	1
98	3/27/2017	8:01:45	0	0	0	0	21.1	21.1	21.1	21.1	0	0	0	0	0	0	0	0	0	0.3	0.9	0
99	3/27/2017	8:11:45	0	0	0	0	21.1	21.1	21.1	21.1	0	0	0	0	0	0	0	0	0	0.1	0.4	0.3
100	3/27/2017	8:21:45	0	0	0	0	21.1	21.1	21.1	21.1	0	0	0	0	0	0	0	0	0	0.2	0.8	0.3
101	3/27/2017	8:31:45	0	0	0	0	21.1	21.1	21.1	21.1	0	0	0	0	0	0	0	0	0	0	0.3	0
102	3/27/2017	8:41:45	0	0	0	0	21.1	21.1	21.1	21.1	0	0	0	0	0	0	0	0	0	0.3	1	0.1
103	3/27/2017	8:51:45	0	0	0	0	21.1	21.1	21.1	21.1	0	0	0	0	0	0	0	0	0	0.3	1.1	0.4
104	3/27/2017	9:01:45	0	0	0	0	21.1	21.1	21.1	21.1	0	0	0	0	0	0	0	0	0	0.4	1.3	0.2
105	3/27/2017	9:11:45	0	0	0	0	21.1	21.1	21.1	21.1	0	0	0	0	0	0	0	0	0	0.2	0.9	0
106	3/27/2017	9:21:45	0	0	0	0	21.1	21.1	21.1	21.1	0	0	0	0	0	0	0	0	0	0	0	0
107	3/27/2017	9:31:45	0	0	0	0	21.1	21.1	21.1	21.1	0	0	0	0	0	0	0	0	0	0	0	0
108	3/27/2017	9:41:45	0	0	0	0	21.1	21.1	21.1	21.1	0	0	0	0	0	0	0	0	0	0	0	0
109	3/27/2017	9:51:45	0	0	0	0	21.1	21.1	21.1	21.1	0	0	0	0	0	0	0	0	0	0	0	0
110	3/27/2017	10:01:45	0	0	0	0	21.1	21.1	21.1	21.1	0	0	0	0	0	0	0	0	0	0	0	0
111	3/27/2017	10:11:45	0	0	0	0	21.1	21.1	21.1	21.1	0	0	0	0	0	0	0	0	0	0	0	0
112	3/27/2017	10:21:45	0	0	0	0	21.1	21.1	21.1	21.1	0	0	0	0	0	0	0	0	0	0	0	0
113	3/27/2017	10:31:45	0	0	0	0	21.1	21.1	21.2	21.1	0	0	0	0	0	0	0	0	0	0	0	0
114	3/27/2017	10:41:45	0	0	0	0	21.1	21.1	21.2	21.2	0	0	0	0	0	0	0	0	0	0	0	0
115	3/27/2017	10:51:45	0	0	0	0	21.2	21.2	21.2	21.2	0	0	0	0	0	0	0	0	0	0	0	0
116	3/27/2017	11:01:45	0	0	0	0	21.2	21.2	21.2	21.2	0	0	0	0	0	0	0	0	0	0	0	0
117	3/27/2017	11:11:45	0	0	0	0	21.2	21.2	21.2	21.2	0	0	0	0	0	0	0	0	0	0	0	0
118	3/27/2017	11:21:45	0	0	0	0	21.2	21.2	21.2	21.2	0	0	0	0	0	0	0	0	0	0	0	0
119	3/27/2017	11:31:45	0	0	0	0	21.2	21.2	21.3	21.3	0	0	0	0	0	0	0	0	0	0	0	0
120	3/27/2017	11:41:45	0	0	0	0	21.3	21.3	21.4	21.4	0	0	0	0	0	0	0	0	0	0	0	0
121	3/27/2017	11:51:45	0	0	0	0	21.4	21.4	21.4	21.4	0	0	0	0	0	0	0	0	0	0	0	0
122	3/27/2017	12:01:45	0	0	0	0	21.4	21.4	21.4	21.4	0	0	0	0	0	0	0	0	0	0	0	0
123	3/27/2017	12:11:45	0	0	0	0	21.4	21.4	21.4	21.4	0	0	0	0	0	0	0	0	0	0	0	0
124	3/27/2017	12:21:45	0	0	0	0	21.4	21.4	21.4	21.4	0	0	0	0	0	0	0	0	0	0	0	0
125	3/27/2017	12:31:45	0	0	0	0	21.4	21.4	21.5	21.5	0	0	0	0	0	0	0	0	0	0	0	0
126	3/27/2017	12:41:45	0	0	0	0	21.4	21.4	21.5	21.5	0	0	0	0	0	0	0	0	0	0	0	0
127	3/27/2017	12:51:45	0	0	0	0	21.4	21.4	21.5	21.5	0	0	0	0	0	0	0	0	0	0	0	0
Peak			0	0	0	0	21.4	21.4	21.6	21.5	0	0	0	0	0	0	0	0	3.5	10.7	36.9	23.2
Min			0	0	0	0	21.1	21.1	21.1	21.1	0	0	0	0	0	0	0	0	0	0	0	0
Average			0	0	0	0	21.2	21.2	21.3	21.2	0	0	0	0	0	0	0	0	0	0.4	1.9	0.4

\*\*\*\*\*

TWA/STEL

Index	Date/Time		H2S(ppm)		CO(ppm)		VOC(ppm)	
			(TWA)	(STEL)	(TWA)	(STEL)	(TWA)	(STEL)
1	3/26/2017	15:51:45	0	---	0	---	0	---
2	3/26/2017	16:01:45	0	0	0	0	0	0

3	3/26/2017	16:11:45	0	0	0	0	0	0
4	3/26/2017	16:21:45	0	0	0	0	0	0
5	3/26/2017	16:31:45	0	0	0	0	0	0
6	3/26/2017	16:41:45	0	0	0	0	0	0
7	3/26/2017	16:51:45	0	0	0	0	0	0
8	3/26/2017	17:01:45	0	0	0	0	0	0
9	3/26/2017	17:11:45	0	0	0	0	0	0
10	3/26/2017	17:21:45	0	0	0	0	0	0
11	3/26/2017	17:31:45	0	0	0	0	0	0
12	3/26/2017	17:41:45	0	0	0	0	0	0
13	3/26/2017	17:51:45	0	0	0	0	0	0
14	3/26/2017	18:01:45	0	0	0	0	0	0
15	3/26/2017	18:11:45	0	0	0	0	0	0
16	3/26/2017	18:21:45	0	0	0	0	0	0
17	3/26/2017	18:31:45	0	0	0	0	0	0
18	3/26/2017	18:41:45	0	0	0	0	0	0
19	3/26/2017	18:51:45	0	0	0	0	0	0
20	3/26/2017	19:01:45	0	0	0	0	0	0
21	3/26/2017	19:11:45	0	0	0	0	0	0
22	3/26/2017	19:21:45	0	0	0	0	0	0
23	3/26/2017	19:31:45	0	0	0	0	0	0
24	3/26/2017	19:41:45	0	0	0	0	0	0
25	3/26/2017	19:51:45	0	0	0	0	0	0
26	3/26/2017	20:01:45	0	0	0	0	0	0
27	3/26/2017	20:11:45	0	0	0	0	0	0
28	3/26/2017	20:21:45	0	0	0	0	0	0
29	3/26/2017	20:31:45	0	0	0	0	0	0
30	3/26/2017	20:41:45	0	0	0	0	0	0
31	3/26/2017	20:51:45	0	0	0	0	0	0
32	3/26/2017	21:01:45	0	0	0	0	0	0
33	3/26/2017	21:11:45	0	0	0	0	0	0
34	3/26/2017	21:21:45	0	0	0	0	0	0
35	3/26/2017	21:31:45	0	0	0	0	0	0
36	3/26/2017	21:41:45	0	0	0	0	0	0
37	3/26/2017	21:51:45	0	0	0	0	0	0
38	3/26/2017	22:01:45	0	0	0	0	0	0
39	3/26/2017	22:11:45	0	0	0	0	0	0
40	3/26/2017	22:21:45	0	0	0	0	0	0
41	3/26/2017	22:31:45	0	0	0	0	0	0
42	3/26/2017	22:41:45	0	0	0	0	0	0
43	3/26/2017	22:51:45	0	0	0	0	0	0
44	3/26/2017	23:01:45	0	0	0	0	0	0
45	3/26/2017	23:11:45	0	0	0	0	0	0
46	3/26/2017	23:21:45	0	0	0	0	0	0
47	3/26/2017	23:31:45	0	0	0	0	0	0
48	3/26/2017	23:41:45	0	0	0	0	0	0
49	3/26/2017	23:51:45	0	0	0	0	0	0
50	3/27/2017	0:01:45	0	0	0	0	0	0
51	3/27/2017	0:11:45	0	0	0	0	0	0
52	3/27/2017	0:21:45	0	0	0	0	0	0
53	3/27/2017	0:31:45	0	0	0	0	0	0
54	3/27/2017	0:41:45	0	0	0	0	0	0
55	3/27/2017	0:51:45	0	0	0	0	0	0
56	3/27/2017	1:01:45	0	0	0	0	0	0
57	3/27/2017	1:11:45	0	0	0	0	0	0
58	3/27/2017	1:21:45	0	0	0	0	0	0
59	3/27/2017	1:31:45	0	0	0	0	0	0

60	3/27/2017	1:41:45	0	0	0	0	0	0	0
61	3/27/2017	1:51:45	0	0	0	0	0	0	0
62	3/27/2017	2:01:45	0	0	0	0	0	0	0.5
63	3/27/2017	2:11:45	0	0	0	0	0	0	0.5
64	3/27/2017	2:21:45	0	0	0	0	0	0	0.4
65	3/27/2017	2:31:45	0	0	0	0	0	0	0.4
66	3/27/2017	2:41:45	0	0	0	0	0	0	0
67	3/27/2017	2:51:45	0	0	0	0	0	0	0.3
68	3/27/2017	3:01:45	0	0	0	0	0	0.1	0.7
69	3/27/2017	3:11:45	0	0	0	0	0	0.1	1
70	3/27/2017	3:21:45	0	0	0	0	0	0.1	0.5
71	3/27/2017	3:31:45	0	0	0	0	0	0.1	1.7
72	3/27/2017	3:41:45	0	0	0	0	0	0.1	1.9
73	3/27/2017	3:51:45	0	0	0	0	0	0.1	0.3
74	3/27/2017	4:01:45	0	0	0	0	0	0.1	0.1
75	3/27/2017	4:11:45	0	0	0	0	0	0.1	0.1
76	3/27/2017	4:21:45	0	0	0	0	0	0.1	0.1
77	3/27/2017	4:31:45	0	0	0	0	0	0.1	0
78	3/27/2017	4:41:45	0	0	0	0	0	0.1	0
79	3/27/2017	4:51:45	0	0	0	0	0	0.1	0.3
80	3/27/2017	5:01:45	0	0	0	0	0	0.2	2.2
81	3/27/2017	5:11:45	0	0	0	0	0	0.3	5.7
82	3/27/2017	5:21:45	0	0	0	0	0	0.5	8.2
83	3/27/2017	5:31:45	0	0	0	0	0	0.5	4.5
84	3/27/2017	5:41:45	0	0	0	0	0	0.5	0
85	3/27/2017	5:51:45	0	0	0	0	0	0.5	0
86	3/27/2017	6:01:45	0	0	0	0	0	0.5	0
87	3/27/2017	6:11:45	0	0	0	0	0	0.5	0.2
88	3/27/2017	6:21:45	0	0	0	0	0	0.5	0.2
89	3/27/2017	6:31:45	0	0	0	0	0	0.5	0
90	3/27/2017	6:41:45	0	0	0	0	0	0.5	0
91	3/27/2017	6:51:45	0	0	0	0	0	0.5	0
92	3/27/2017	7:01:45	0	0	0	0	0	0.9	15.5
93	3/27/2017	7:11:45	0	0	0	0	0	1	15.6
94	3/27/2017	7:21:45	0	0	0	0	0	1	0.9
95	3/27/2017	7:31:45	0	0	0	0	0	1	2.9
96	3/27/2017	7:41:45	0	0	0	0	0	1	2.1
97	3/27/2017	7:51:45	0	0	0	0	0	1.1	0.7
98	3/27/2017	8:01:45	0	0	0	0	0	1.1	0.7
99	3/27/2017	8:11:45	0	0	0	0	0	1.1	0.2
100	3/27/2017	8:21:45	0	0	0	0	0	1.1	0.4
101	3/27/2017	8:31:45	0	0	0	0	0	1.1	0.2
102	3/27/2017	8:41:45	0	0	0	0	0	1.1	0.1
103	3/27/2017	8:51:45	0	0	0	0	0	1.1	0.3
104	3/27/2017	9:01:45	0	0	0	0	0	1.1	0.4
105	3/27/2017	9:11:45	0	0	0	0	0	1.1	0.1
106	3/27/2017	9:21:45	0	0	0	0	0	1.1	0
107	3/27/2017	9:31:45	0	0	0	0	0	1.1	0
108	3/27/2017	9:41:45	0	0	0	0	0	1.1	0
109	3/27/2017	9:51:45	0	0	0	0	0	1.1	0
110	3/27/2017	10:01:45	0	0	0	0	0	1.1	0
111	3/27/2017	10:11:45	0	0	0	0	0	1.1	0
112	3/27/2017	10:21:45	0	0	0	0	0	1.1	0
113	3/27/2017	10:31:45	0	0	0	0	0	1.1	0
114	3/27/2017	10:41:45	0	0	0	0	0	1.1	0
115	3/27/2017	10:51:45	0	0	0	0	0	1.1	0
116	3/27/2017	11:01:45	0	0	0	0	0	1.1	0

117	3/27/2017	11:11:45	0	0	0	0	1.1	0
118	3/27/2017	11:21:45	0	0	0	0	1.1	0
119	3/27/2017	11:31:45	0	0	0	0	1.1	0
120	3/27/2017	11:41:45	0	0	0	0	1.1	0
121	3/27/2017	11:51:45	0	0	0	0	1.1	0
122	3/27/2017	12:01:45	0	0	0	0	1.1	0
123	3/27/2017	12:11:45	0	0	0	0	1.1	0
124	3/27/2017	12:21:45	0	0	0	0	1.1	0
125	3/27/2017	12:31:45	0	0	0	0	1.1	0
126	3/27/2017	12:41:45	0	0	0	0	1.1	0
127	3/27/2017	12:51:45	0	0	0	0	1.1	0

17/03/22 8:36

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Summary

Unit Name MultiRAE(PGM-6228)
Unit SN MBB3Z034P9
Unit Firmware Ver V1.18

Running Mode Hygiene Mode
Datalog Mode Auto
Diagnostic Mode No
Stop Reason Power Down

Site ID 3
User ID 1

Begin 3/22/2017 8:36:24
End 3/22/2017 8:50:32
Sample Period(s) 30
Number of Records 28

SW-12

Table with 22 columns: Sensor, SN, LEL(%LEL), OXY(%), H2S(ppm), CO(ppm), VOC(ppm), Measure Type, Min, Avg, Max, Real, Min, Avg, Max, Real, Min, Avg, Max, Real. Includes calibration times and peak/average values.

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Datalog

Table with 22 columns: Index, Date/Time, LEL(%LEL) (Min, Avg, Max, Real), OXY(%), H2S(ppm), CO(ppm), VOC(ppm). Contains 14 rows of data from 3/22/2017 8:36:54 to 8:43:24.

15	3/22/2017	8:43:54	0	0	0	0	21.2	21.2	21.2	21.2	0	0	0	0	0	0	0	0	0	0	0	0
16	3/22/2017	8:44:24	0	0	0	0	21.2	21.2	21.2	21.2	0	0	0	0	0	0	0	0	0	0	0	0
17	3/22/2017	8:44:54	0	0	0	0	21.2	21.2	21.2	21.2	0	0	0	0	0	0	0	0	0	0	0	0
18	3/22/2017	8:45:24	0	0	0	0	21.2	21.2	21.2	21.2	0	0	0	0	0	0	0	0	0	0	0	0
19	3/22/2017	8:45:54	0	0	0	0	21.2	21.2	21.2	21.2	0	0	0	0	0	0	0	0	0	0	0	0
20	3/22/2017	8:46:24	0	0	0	0	21.2	21.2	21.2	21.2	0	0	0	0	0	0	0	0	0	0	0	0
21	3/22/2017	8:46:54	0	0	0	0	21.2	21.2	21.2	21.2	0	0	0	0	0	0	0	0	0	0	0	0
22	3/22/2017	8:47:24	0	0	0	0	21.2	21.2	21.2	21.2	0	0	0	0	0	0	0	0	0	0	0	0
23	3/22/2017	8:47:54	0	0	0	0	21.2	21.2	21.2	21.2	0	0	0	0	0	0	0	0	0	0	0	0
24	3/22/2017	8:48:24	0	0	0	0	21.2	21.2	21.2	21.2	0	0	0	0	0	0	0	0	0	0	0	0
25	3/22/2017	8:48:54	0	0	0	0	21.2	21.2	21.2	21.2	0	0	0	0	0	0	0	0	0	0	0	0
26	3/22/2017	8:49:24	0	0	0	0	21.2	21.2	21.2	21.2	0	0	0	0	0	0	0	0	0	0	0	0
27	3/22/2017	8:49:54	0	0	0	0	21.2	21.2	21.2	21.2	0	0	0	0	0	0	0	0	0	0	0	0
28	3/22/2017	8:50:24	0	0	0	0	21.2	21.2	21.2	21.2	0	0	0	0	0	0	0	0	0	0	0	0
Peak			0	0	0	0	21.3	21.3	21.3	21.3	0	0	0	0	0	0	0	0	0	0	0	0
Min			0	0	0	0	21.2	21.2	21.2	21.2	0	0	0	0	0	0	0	0	0	0	0	0
Average			0	0	0	0	21.2	21.2	21.2	21.2	0	0	0	0	0	0	0	0	0	0	0	0

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TWA/STEL

Index	Date/Time	H2S(ppm) (TWA)	H2S(ppm) (STEL)	CO(ppm) (TWA)	CO(ppm) (STEL)	VOC(ppm) (TWA)	VOC(ppm) (STEL)
1	3/22/2017 8:36:54	0	---	0	---	---	---
2	3/22/2017 8:37:24	0	---	0	---	0	---
3	3/22/2017 8:37:54	0	---	0	---	0	---
4	3/22/2017 8:38:24	0	---	0	---	0	---
5	3/22/2017 8:38:54	0	---	0	---	0	---
6	3/22/2017 8:39:24	0	---	0	---	0	---
7	3/22/2017 8:39:54	0	---	0	---	0	---
8	3/22/2017 8:40:24	0	---	0	---	0	---
9	3/22/2017 8:40:54	0	---	0	---	0	---
10	3/22/2017 8:41:24	0	---	0	---	0	---
11	3/22/2017 8:41:54	0	---	0	---	0	---
12	3/22/2017 8:42:24	0	---	0	---	0	---
13	3/22/2017 8:42:54	0	---	0	---	0	---
14	3/22/2017 8:43:24	0	---	0	---	0	---
15	3/22/2017 8:43:54	0	---	0	---	0	---
16	3/22/2017 8:44:24	0	---	0	---	0	---
17	3/22/2017 8:44:54	0	---	0	---	0	---
18	3/22/2017 8:45:24	0	---	0	---	0	---
19	3/22/2017 8:45:54	0	---	0	---	0	---
20	3/22/2017 8:46:24	0	---	0	---	0	---
21	3/22/2017 8:46:54	0	---	0	---	0	---
22	3/22/2017 8:47:24	0	---	0	---	0	---
23	3/22/2017 8:47:54	0	---	0	---	0	---
24	3/22/2017 8:48:24	0	---	0	---	0	---
25	3/22/2017 8:48:54	0	---	0	---	0	---
26	3/22/2017 8:49:24	0	---	0	---	0	---
27	3/22/2017 8:49:54	0	---	0	---	0	---
28	3/22/2017 8:50:24	0	---	0	---	0	---

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17/03/22 8:52

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Summary

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Unit Name MultiRAE(PGM-6228)  
Unit SN MBB3Z034P9



22	3/22/2017	9:03:39	0	0	0	0	21.1	21.1	21.1	21.1	0	0	0	0	0	0	0	0	0	0	0	0
23	3/22/2017	9:04:09	0	0	0	0	21.1	21.1	21.1	21.1	0	0	0	0	0	0	0	0	0	0	0	0
24	3/22/2017	9:04:39	0	0	0	0	21.1	21.1	21.1	21.1	0	0	0	0	0	0	0	0	0	0	0	0
25	3/22/2017	9:05:09	0	0	0	0	21.1	21.1	21.1	21.1	0	0	0	0	0	0	0	0	0	0	0	0
26	3/22/2017	9:05:39	0	0	0	0	21.1	21.1	21.1	21.1	0	0	0	0	0	0	0	0	0	0	0	0
27	3/22/2017	9:06:09	0	0	0	0	21.1	21.1	21.1	21.1	0	0	0	0	0	0	0	0	0	0	0	0
28	3/22/2017	9:06:39	0	0	0	0	21.1	21.1	21.1	21.1	0	0	0	0	0	0	0	0	0	0	0	0
29	3/22/2017	9:07:09	0	0	0	0	21.1	21.1	21.1	21.1	0	0	0	0	0	0	0	0	0	0	0	0
30	3/22/2017	9:07:39	0	0	0	0	21.1	21.1	21.1	21.1	0	0	0	0	0	0	0	0	0	0	0	0
Peak			0	0	0	0	21.1	21.1	21.1	21.1	0	0	0	0	0	0	0	0	0	0	0	0
Min			0	0	0	0	21.1	21.1	21.1	21.1	0	0	0	0	0	0	0	0	0	0	0	0
Average			0	0	0	0	21.1	21.1	21.1	21.1	0	0	0	0	0	0	0	0	0	0	0	0

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TWA/STEL

Index	Date/Time	H2S(ppm) (TWA)	H2S(ppm) (STEL)	CO(ppm) (TWA)	CO(ppm) (STEL)	VOC(ppm) (TWA)	VOC(ppm) (STEL)
1	3/22/2017 8:53:09	0	---		0	---	---
2	3/22/2017 8:53:39	0	---		0	---	0
3	3/22/2017 8:54:09	0	---		0	---	0
4	3/22/2017 8:54:39	0	---		0	---	0
5	3/22/2017 8:55:09	0	---		0	---	0
6	3/22/2017 8:55:39	0	---		0	---	0
7	3/22/2017 8:56:09	0	---		0	---	0
8	3/22/2017 8:56:39	0	---		0	---	0
9	3/22/2017 8:57:09	0	---		0	---	0
10	3/22/2017 8:57:39	0	---		0	---	0
11	3/22/2017 8:58:09	0	---		0	---	0
12	3/22/2017 8:58:39	0	---		0	---	0
13	3/22/2017 8:59:09	0	---		0	---	0
14	3/22/2017 8:59:39	0	---		0	---	0
15	3/22/2017 9:00:09	0	---		0	---	0
16	3/22/2017 9:00:39	0	---		0	---	0
17	3/22/2017 9:01:09	0	---		0	---	0
18	3/22/2017 9:01:39	0	---		0	---	0
19	3/22/2017 9:02:09	0	---		0	---	0
20	3/22/2017 9:02:39	0	---		0	---	0
21	3/22/2017 9:03:09	0	---		0	---	0
22	3/22/2017 9:03:39	0	---		0	---	0
23	3/22/2017 9:04:09	0	---		0	---	0
24	3/22/2017 9:04:39	0	---		0	---	0
25	3/22/2017 9:05:09	0	---		0	---	0
26	3/22/2017 9:05:39	0	---		0	---	0
27	3/22/2017 9:06:09	0	---		0	---	0
28	3/22/2017 9:06:39	0	---		0	---	0
29	3/22/2017 9:07:09	0	---		0	---	0
30	3/22/2017 9:07:39	0	0	0	0	0	0

17/03/22 9:11

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Summary

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-----
Unit      Name      MultiRAE(PGM-6228)
Unit      SN        MBB3Z034P9
Unit      Firmware Ver    V1.18
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Running  Mode      Hygiene  Mode
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25	3/22/2017	9:31:19	0	0	0	0	20.9	20.9	20.9	20.9	0	0	0	0	0	0	0	0	0	0	0	0
26	3/22/2017	9:31:49	0	0	0	0	20.9	20.9	20.9	20.9	0	0	0	0	0	0	0	0	0	0	0	0
27	3/22/2017	9:32:19	0	0	0	0	20.9	20.9	20.9	20.9	0	0	0	0	0	0	0	0	0	0	0	0
28	3/22/2017	9:32:49	0	0	0	0	20.9	20.9	20.9	20.9	0	0	0	0	0	0	0	0	0	0	0	0
Peak			0	0	0	0	20.9	20.9	21.1	20.9	0	0	0	0	0	0	0	0	0	0	0	0
Min			0	0	0	0	20.9	20.9	20.9	20.9	0	0	0	0	0	0	0	0	0	0	0	0
Average			0	0	0	0	20.9	20.9	20.9	20.9	0	0	0	0	0	0	0	0	0	0	0	0

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TWA/STEL

Index	Date/Time	H2S(ppm) (TWA)	H2S(ppm) (STEL)	CO(ppm) (TWA)	CO(ppm) (STEL)	VOC(ppm) (TWA)	VOC(ppm) (STEL)
1	3/22/2017 9:19:19	0	---	0	---	---	---
2	3/22/2017 9:19:49	0	---	0	---	0	---
3	3/22/2017 9:20:19	0	---	0	---	0	---
4	3/22/2017 9:20:49	0	---	0	---	0	---
5	3/22/2017 9:21:19	0	---	0	---	0	---
6	3/22/2017 9:21:49	0	---	0	---	0	---
7	3/22/2017 9:22:19	0	---	0	---	0	---
8	3/22/2017 9:22:49	0	---	0	---	0	---
9	3/22/2017 9:23:19	0	---	0	---	0	---
10	3/22/2017 9:23:49	0	---	0	---	0	---
11	3/22/2017 9:24:19	0	---	0	---	0	---
12	3/22/2017 9:24:49	0	---	0	---	0	---
13	3/22/2017 9:25:19	0	---	0	---	0	---
14	3/22/2017 9:25:49	0	---	0	---	0	---
15	3/22/2017 9:26:19	0	---	0	---	0	---
16	3/22/2017 9:26:49	0	---	0	---	0	---
17	3/22/2017 9:27:19	0	---	0	---	0	---
18	3/22/2017 9:27:49	0	---	0	---	0	---
19	3/22/2017 9:28:19	0	---	0	---	0	---
20	3/22/2017 9:28:49	0	---	0	---	0	---
21	3/22/2017 9:29:19	0	---	0	---	0	---
22	3/22/2017 9:29:49	0	---	0	---	0	---
23	3/22/2017 9:30:19	0	---	0	---	0	---
24	3/22/2017 9:30:49	0	---	0	---	0	---
25	3/22/2017 9:31:19	0	---	0	---	0	---
26	3/22/2017 9:31:49	0	---	0	---	0	---
27	3/22/2017 9:32:19	0	---	0	---	0	---
28	3/22/2017 9:32:49	0	---	0	---	0	---

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17/03/22 9:40

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Summary

-----  
Unit Name MultiRAE(PGM-6228)  
Unit SN MBB3Z034P9  
Unit Firmware Ver V1.18  
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Running Mode Hygiene Mode  
Datalog Mode Auto  
Diagnostic Mode No  
Stop Reason Power Down  
-----

Site ID 3  
User ID 1  
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32	3/22/2017	9:56:30	0	0	0	0	21.1	21.1	21.1	21.1	0	0	0	0	0	0	0	0	0	0	0	0
Peak			0	0	0	0	21.2	21.2	21.2	21.2	0	0	0	0	0	0	0	0	0	0	0	0
Min			0	0	0	0	21.1	21.1	21.1	21.1	0	0	0	0	0	0	0	0	0	0	0	0
Average			0	0	0	0	21.1	21.1	21.1	21.1	0	0	0	0	0	0	0	0	0	0	0	0

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TWA/STEL

Index	Date/Time	H2S(ppm) (TWA)	H2S(ppm) (STEL)	CO(ppm) (TWA)	CO(ppm) (STEL)	VOC(ppm) (TWA)	VOC(ppm) (STEL)
1	3/22/2017 9:41:00	0	---	0	---	---	---
2	3/22/2017 9:41:30	0	---	0	---	0	---
3	3/22/2017 9:42:00	0	---	0	---	0	---
4	3/22/2017 9:42:30	0	---	0	---	0	---
5	3/22/2017 9:43:00	0	---	0	---	0	---
6	3/22/2017 9:43:30	0	---	0	---	0	---
7	3/22/2017 9:44:00	0	---	0	---	0	---
8	3/22/2017 9:44:30	0	---	0	---	0	---
9	3/22/2017 9:45:00	0	---	0	---	0	---
10	3/22/2017 9:45:30	0	---	0	---	0	---
11	3/22/2017 9:46:00	0	---	0	---	0	---
12	3/22/2017 9:46:30	0	---	0	---	0	---
13	3/22/2017 9:47:00	0	---	0	---	0	---
14	3/22/2017 9:47:30	0	---	0	---	0	---
15	3/22/2017 9:48:00	0	---	0	---	0	---
16	3/22/2017 9:48:30	0	---	0	---	0	---
17	3/22/2017 9:49:00	0	---	0	---	0	---
18	3/22/2017 9:49:30	0	---	0	---	0	---
19	3/22/2017 9:50:00	0	---	0	---	0	---
20	3/22/2017 9:50:30	0	---	0	---	0	---
21	3/22/2017 9:51:00	0	---	0	---	0	---
22	3/22/2017 9:51:30	0	---	0	---	0	---
23	3/22/2017 9:52:00	0	---	0	---	0	---
24	3/22/2017 9:52:30	0	---	0	---	0	---
25	3/22/2017 9:53:00	0	---	0	---	0	---
26	3/22/2017 9:53:30	0	---	0	---	0	---
27	3/22/2017 9:54:00	0	---	0	---	0	---
28	3/22/2017 9:54:30	0	---	0	---	0	---
29	3/22/2017 9:55:00	0	---	0	---	0	---
30	3/22/2017 9:55:30	0	0	0	0	0	---
31	3/22/2017 9:56:00	0	0	0	0	0	0
32	3/22/2017 9:56:30	0	0	0	0	0	0

=====  
17/03/22 10:02

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Summary

-----  
Unit Name MultiRAE(PGM-6228)  
Unit SN MBB3Z034P9  
Unit Firmware Ver V1.18  
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Running Mode Hygiene Mode  
Datalog Mode Auto  
Diagnostic Mode No  
Stop Reason Power Down  
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Site ID 3  
User ID 1



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TWA/STEL

Index	Date/Time	H2S(ppm) (TWA)	H2S(ppm) (STEL)	CO(ppm) (TWA)	CO(ppm) (STEL)	VOC(ppm) (TWA)	VOC(ppm) (STEL)
1	3/22/2017 10:02:42	0	---	0	---	---	---
2	3/22/2017 10:03:12	0	---	0	---	0	---
3	3/22/2017 10:03:42	0	---	0	---	0	---
4	3/22/2017 10:04:12	0	---	0	---	0	---
5	3/22/2017 10:04:42	0	---	0	---	0	---
6	3/22/2017 10:05:12	0	---	0	---	0	---
7	3/22/2017 10:05:42	0	---	0	---	0	---
8	3/22/2017 10:06:12	0	---	0	---	0	---
9	3/22/2017 10:06:42	0	---	0	---	0	---
10	3/22/2017 10:07:12	0	---	0	---	0	---
11	3/22/2017 10:07:42	0	---	0	---	0	---
12	3/22/2017 10:08:12	0	---	0	---	0	---
13	3/22/2017 10:08:42	0	---	0	---	0	---
14	3/22/2017 10:09:12	0	---	0	---	0	---
15	3/22/2017 10:09:42	0	---	0	---	0	---
16	3/22/2017 10:10:12	0	---	0	---	0	---
17	3/22/2017 10:10:42	0	---	0	---	0	---
18	3/22/2017 10:11:12	0	---	0	---	0	---
19	3/22/2017 10:11:42	0	---	0	---	0	---
20	3/22/2017 10:12:12	0	---	0	---	0	---
21	3/22/2017 10:12:42	0	---	0	---	0	---
22	3/22/2017 10:13:12	0	---	0	---	0	---
23	3/22/2017 10:13:42	0	---	0	---	0	---
24	3/22/2017 10:14:12	0	---	0	---	0	---
25	3/22/2017 10:14:42	0	---	0	---	0	---
26	3/22/2017 10:15:12	0	---	0	---	0	---
27	3/22/2017 10:15:42	0	---	0	---	0	---

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17/03/22 10:20

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Summary

-----  
Unit Name MultiRAE(PGM-6228)  
Unit SN MBB3Z034P9  
Unit Firmware Ver V1.18  
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Running Mode Hygiene Mode  
Datalog Mode Auto  
Diagnostic Mode No  
Stop Reason Power Down  
-----

Site ID 3  
User ID 1  
-----

Begin 3/22/2017 10:20:19  
End 3/22/2017 10:34:16  
Sample Period(s) 30  
Number of Records 27  
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Sensor LEL(%LEL) OXY(%) H2S(ppm) CO(ppm) VOC(ppm)  
Sensor SN SC0311019 SC0342040 SC03AR0080 SC0306004 SC03A40140P7

### City of Belton Branch Line

Measure	Type	Min	Avg	Max	Real	Min	Avg	Max	Real	Min	Avg	Max	Real	Min	Avg	Max	Real	Min	Avg	Max	Real
Span			50	18	1	50	10														
Span		2	N/A	N/A	N/A		1000														
Low	Alarm		10	19.5	10	5	50														
High	Alarm		20	23.5	20	200	100														
Over	Alarm		100	30	100	500	5000														
STEL	Alarm	N/A	N/A		15	100	25														
TWA	Alarm	N/A	N/A		10	35	10														
Measurment Gas(CF)		Methane(1	N/A	N/A	N/A	Isobutylene(1.00)															
Calibration Time		3/2/2017	10:44	3/2/2017	10:44	3/2/2017	10:47	3/2/2017	10:44	3/2/2017	10:45										
Peak			0	21.2	0	0	0														
Min			0	21.2	0	0	0														
Average			0	21.2	0	0	0														

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Datalog

Index	Date/Time	LEL(%LEL) (Min)	LEL(%LEL) (Avg)	LEL(%LEL) (Max)	LEL(%LEL) (Real)	OXY(% (Min)	OXY(% (Avg)	OXY(% (Max)	OXY(% (Real)	H2S(ppm) (Min)	H2S(ppm) (Avg)	H2S(ppm) (Max)	H2S(ppm) (Real)	CO(ppm) (Min)	CO(ppm) (Avg)	CO(ppm) (Max)	CO(ppm) (Real)	VOC(ppm) (Min)	VOC(ppm) (Avg)	VOC(ppm) (Max)	VOC(ppm) (Real)	
1	3/22/2017 10:20:49	0	0	0	0	21.2	21.2	21.2	21.2	0	0	0	0	0	0	0	0	0	0	0	0	0
2	3/22/2017 10:21:19	0	0	0	0	21.2	21.2	21.2	21.2	0	0	0	0	0	0	0	0	0	0	0	0	0
3	3/22/2017 10:21:49	0	0	0	0	21.2	21.2	21.2	21.2	0	0	0	0	0	0	0	0	0	0	0	0	0
4	3/22/2017 10:22:19	0	0	0	0	21.2	21.2	21.2	21.2	0	0	0	0	0	0	0	0	0	0	0	0	0
5	3/22/2017 10:22:49	0	0	0	0	21.2	21.2	21.2	21.2	0	0	0	0	0	0	0	0	0	0	0	0	0.1
6	3/22/2017 10:23:19	0	0	0	0	21.2	21.2	21.2	21.2	0	0	0	0	0	0	0	0	0	0	0	0	0
7	3/22/2017 10:23:49	0	0	0	0	21.2	21.2	21.2	21.2	0	0	0	0	0	0	0	0	0	0	0	0	0
8	3/22/2017 10:24:19	0	0	0	0	21.2	21.2	21.2	21.2	0	0	0	0	0	0	0	0	0	0	0	0	0
9	3/22/2017 10:24:49	0	0	0	0	21.2	21.2	21.2	21.2	0	0	0	0	0	0	0	0	0	0	0	0	0
10	3/22/2017 10:25:19	0	0	0	0	21.2	21.2	21.2	21.2	0	0	0	0	0	0	0	0	0	0	0	0	0
11	3/22/2017 10:25:49	0	0	0	0	21.2	21.2	21.2	21.2	0	0	0	0	0	0	0	0	0	0	0	0	0
12	3/22/2017 10:26:19	0	0	0	0	21.2	21.2	21.2	21.2	0	0	0	0	0	0	0	0	0	0	0	0	0
13	3/22/2017 10:26:49	0	0	0	0	21.2	21.2	21.2	21.2	0	0	0	0	0	0	0	0	0	0	0	0	0
14	3/22/2017 10:27:19	0	0	0	0	21.2	21.2	21.2	21.2	0	0	0	0	0	0	0	0	0	0	0	0	0
15	3/22/2017 10:27:49	0	0	0	0	21.2	21.2	21.2	21.2	0	0	0	0	0	0	0	0	0	0	0	0	0
16	3/22/2017 10:28:19	0	0	0	0	21.2	21.2	21.2	21.2	0	0	0	0	0	0	0	0	0	0	0	0	0
17	3/22/2017 10:28:49	0	0	0	0	21.2	21.2	21.2	21.2	0	0	0	0	0	0	0	0	0	0	0	0	0
18	3/22/2017 10:29:19	0	0	0	0	21.2	21.2	21.2	21.2	0	0	0	0	0	0	0	0	0	0	0	0	0
19	3/22/2017 10:29:49	0	0	0	0	21.2	21.2	21.2	21.2	0	0	0	0	0	0	0	0	0	0	0	0	0
20	3/22/2017 10:30:19	0	0	0	0	21.2	21.2	21.2	21.2	0	0	0	0	0	0	0	0	0	0	0	0	0
21	3/22/2017 10:30:49	0	0	0	0	21.2	21.2	21.2	21.2	0	0	0	0	0	0	0	0	0	0	0	0	0
22	3/22/2017 10:31:19	0	0	0	0	21.2	21.2	21.2	21.2	0	0	0	0	0	0	0	0	0	0	0	0	0
23	3/22/2017 10:31:49	0	0	0	0	21.2	21.2	21.2	21.2	0	0	0	0	0	0	0	0	0	0	0	0	0
24	3/22/2017 10:32:19	0	0	0	0	21.2	21.2	21.2	21.2	0	0	0	0	0	0	0	0	0	0	0	0	0
25	3/22/2017 10:32:49	0	0	0	0	21.2	21.2	21.2	21.2	0	0	0	0	0	0	0	0	0	0	0	0	0
26	3/22/2017 10:33:19	0	0	0	0	21.2	21.2	21.2	21.2	0	0	0	0	0	0	0	0	0	0	0	0	0
27	3/22/2017 10:33:49	0	0	0	0	21.2	21.2	21.2	21.2	0	0	0	0	0	0	0	0	0	0	0	0	0
Peak			0	0	0	21.2	21.2	21.2	21.2	0	0	0	0	0	0	0	0	0	0	0	0	0.1
Min			0	0	0	21.2	21.2	21.2	21.2	0	0	0	0	0	0	0	0	0	0	0	0	0
Average			0	0	0	21.2	21.2	21.2	21.2	0	0	0	0	0	0	0	0	0	0	0	0	0

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TWA/STEL

Index	Date/Time	H2S(ppm) (TWA)	H2S(ppm) (STEL)	CO(ppm) (TWA)	CO(ppm) (STEL)	VOC(ppm) (TWA)	VOC(ppm) (STEL)
1	3/22/2017 10:20:49	0	---	0	---	---	---
2	3/22/2017 10:21:19	0	---	0	---	0	---
3	3/22/2017 10:21:49	0	---	0	---	0	---
4	3/22/2017 10:22:19	0	---	0	---	0	---





CalibrationTime	3/2/2017	10:44	3/2/2017	10:44	3/2/2017	10:47	3/2/2017	10:44	3/2/2017	10:45
Peak	0	21.2	0	0	0.5					
Min	0	21.2	0	0	0					
Average	0	21.2	0	0	0.2					

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Datalog

Index	Date/Time	LEL(%LEL) (Min)	LEL(%LEL) (Avg)	LEL(%LEL) (Max)	LEL(%LEL) (Real)	OXY(%) (Min)	OXY(%) (Avg)	OXY(%) (Max)	OXY(%) (Real)	H2S(ppm) (Min)	H2S(ppm) (Avg)	H2S(ppm) (Max)	H2S(ppm) (Real)	CO(ppm) (Min)	CO(ppm) (Avg)	CO(ppm) (Max)	CO(ppm) (Real)	VOC(ppm) (Min)	VOC(ppm) (Avg)	VOC(ppm) (Max)	VOC(ppm) (Real)	
1	3/22/2017 10:42:31	0	0	0	0	21.2	21.2	21.2	21.2	0	0	0	0	0	0	0	0	0	0	0	0	0
2	3/22/2017 10:43:01	0	0	0	0	21.2	21.2	21.2	21.2	0	0	0	0	0	0	0	0	0	0.1	0.1	0.2	0.2
3	3/22/2017 10:43:31	0	0	0	0	21.2	21.2	21.2	21.2	0	0	0	0	0	0	0	0	0	0	0.1	0.2	0
4	3/22/2017 10:44:01	0	0	0	0	21.2	21.2	21.2	21.2	0	0	0	0	0	0	0	0	0	0	0.1	0.2	0.2
5	3/22/2017 10:44:31	0	0	0	0	21.2	21.2	21.2	21.2	0	0	0	0	0	0	0	0	0	0	0.1	0.2	0.1
6	3/22/2017 10:45:01	0	0	0	0	21.2	21.2	21.2	21.2	0	0	0	0	0	0	0	0	0	0.1	0.2	0.3	0.2
7	3/22/2017 10:45:31	0	0	0	0	21.2	21.2	21.2	21.2	0	0	0	0	0	0	0	0	0	0.1	0.1	0.2	0.1
8	3/22/2017 10:46:01	0	0	0	0	21.2	21.2	21.2	21.2	0	0	0	0	0	0	0	0	0	0.1	0.1	0.1	0.1
9	3/22/2017 10:46:31	0	0	0	0	21.2	21.2	21.2	21.2	0	0	0	0	0	0	0	0	0	0.1	0.1	0.1	0.1
10	3/22/2017 10:47:01	0	0	0	0	21.2	21.2	21.2	21.2	0	0	0	0	0	0	0	0	0	0	0.2	0.2	0
11	3/22/2017 10:47:31	0	0	0	0	21.2	21.2	21.2	21.2	0	0	0	0	0	0	0	0	0	0	0	0.1	0
12	3/22/2017 10:48:01	0	0	0	0	21.2	21.2	21.2	21.2	0	0	0	0	0	0	0	0	0	0	0	0	0
13	3/22/2017 10:48:31	0	0	0	0	21.2	21.2	21.2	21.2	0	0	0	0	0	0	0	0	0	0	0.1	0.1	0.1
14	3/22/2017 10:49:01	0	0	0	0	21.2	21.2	21.2	21.2	0	0	0	0	0	0	0	0	0	0.1	0.1	0.2	0.1
15	3/22/2017 10:49:31	0	0	0	0	21.2	21.2	21.2	21.2	0	0	0	0	0	0	0	0	0	0	0.1	0.1	0.1
16	3/22/2017 10:50:01	0	0	0	0	21.2	21.2	21.2	21.2	0	0	0	0	0	0	0	0	0	0	0.1	0.2	0
17	3/22/2017 10:50:31	0	0	0	0	21.2	21.2	21.2	21.2	0	0	0	0	0	0	0	0	0	0.1	0.2	0.4	0.1
18	3/22/2017 10:51:01	0	0	0	0	21.2	21.2	21.2	21.2	0	0	0	0	0	0	0	0	0	0	0.1	0.4	0.3
19	3/22/2017 10:51:31	0	0	0	0	21.2	21.2	21.2	21.2	0	0	0	0	0	0	0	0	0	0.2	0.3	0.6	0.5
20	3/22/2017 10:52:01	0	0	0	0	21.2	21.2	21.2	21.2	0	0	0	0	0	0	0	0	0	0.1	0.2	0.5	0.1
21	3/22/2017 10:52:31	0	0	0	0	21.2	21.2	21.2	21.2	0	0	0	0	0	0	0	0	0	0.1	0.1	0.2	0.1
22	3/22/2017 10:53:01	0	0	0	0	21.2	21.2	21.2	21.2	0	0	0	0	0	0	0	0	0	0.1	0.3	0.5	0.4
23	3/22/2017 10:53:31	0	0	0	0	21.2	21.2	21.2	21.2	0	0	0	0	0	0	0	0	0	0.2	0.4	0.8	0.5
24	3/22/2017 10:54:01	0	0	0	0	21.2	21.2	21.2	21.2	0	0	0	0	0	0	0	0	0	0.3	0.4	0.6	0.3
25	3/22/2017 10:54:31	0	0	0	0	21.2	21.2	21.2	21.2	0	0	0	0	0	0	0	0	0	0	0.1	0.3	0.1
26	3/22/2017 10:55:01	0	0	0	0	21.2	21.2	21.2	21.2	0	0	0	0	0	0	0	0	0	0.1	0.1	0.2	0.2
27	3/22/2017 10:55:31	0	0	0	0	21.2	21.2	21.2	21.2	0	0	0	0	0	0	0	0	0	0.2	0.2	0.3	0.2
Peak		0	0	0	0	21.2	21.2	21.2	21.2	0	0	0	0	0	0	0	0	0	0.3	0.4	0.8	0.5
Min		0	0	0	0	21.2	21.2	21.2	21.2	0	0	0	0	0	0	0	0	0	0	0	0	0
Average		0	0	0	0	21.2	21.2	21.2	21.2	0	0	0	0	0	0	0	0	0	0.1	0.2	0.3	0.2

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TWA/STEL

Index	Date/Time	H2S(ppm) (TWA)	H2S(ppm) (STEL)	CO(ppm) (TWA)	CO(ppm) (STEL)	VOC(ppm) (TWA)	VOC(ppm) (STEL)
1	3/22/2017 10:42:31	0	---	0	---	---	---
2	3/22/2017 10:43:01	0	---	0	---	0	---
3	3/22/2017 10:43:31	0	---	0	---	0	---
4	3/22/2017 10:44:01	0	---	0	---	0	---
5	3/22/2017 10:44:31	0	---	0	---	0	---
6	3/22/2017 10:45:01	0	---	0	---	0	---
7	3/22/2017 10:45:31	0	---	0	---	0	---
8	3/22/2017 10:46:01	0	---	0	---	0	---
9	3/22/2017 10:46:31	0	---	0	---	0	---
10	3/22/2017 10:47:01	0	---	0	---	0	---
11	3/22/2017 10:47:31	0	---	0	---	0	---
12	3/22/2017 10:48:01	0	---	0	---	0	---
13	3/22/2017 10:48:31	0	---	0	---	0	---

14	3/22/2017	10:49:01	0 ---	0 ---	0 ---
15	3/22/2017	10:49:31	0 ---	0 ---	0 ---
16	3/22/2017	10:50:01	0 ---	0 ---	0 ---
17	3/22/2017	10:50:31	0 ---	0 ---	0 ---
18	3/22/2017	10:51:01	0 ---	0 ---	0 ---
19	3/22/2017	10:51:31	0 ---	0 ---	0 ---
20	3/22/2017	10:52:01	0 ---	0 ---	0 ---
21	3/22/2017	10:52:31	0 ---	0 ---	0 ---
22	3/22/2017	10:53:01	0 ---	0 ---	0 ---
23	3/22/2017	10:53:31	0 ---	0 ---	0 ---
24	3/22/2017	10:54:01	0 ---	0 ---	0 ---
25	3/22/2017	10:54:31	0 ---	0 ---	0 ---
26	3/22/2017	10:55:01	0 ---	0 ---	0 ---
27	3/22/2017	10:55:31	0 ---	0 ---	0 ---

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 17/03/22 11:06

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Summary

-----  
 Unit Name MultiRAE(PGM-6228)  
 Unit SN MBB3Z034P9  
 Unit Firmware Ver V1.18  
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Running Mode Hygiene Mode  
 Datalog Mode Auto  
 Diagnostic Mode No  
 Stop Reason Power Down  
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Site ID 3  
 User ID 1  
 -----

Begin 3/22/2017 11:06:36

End 3/22/2017 11:20:22

Sample Period(s) 30

Number of Records 27  
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### Brown's Creek under Lewis Drive

Sensor	LEL(%LEL)	OXY(%)	H2S(ppm)	CO(ppm)	VOC(ppm)																	
Sensor	SN	SC0311019	SC0342040	SC03AR0080	SC0306004	SC03A40140P7																
Measure	Type	Min	Avg	Max	Real	Min	Avg	Max	Real	Min	Avg	Max	Real	Min	Avg	Max	Real	Min	Avg	Max	Real	
Span		50	18	1	50	10																
Span	2	N/A	N/A	N/A	N/A	1000																
Low	Alarm	10	19.5	10	5	50																
High	Alarm	20	23.5	20	200	100																
Over	Alarm	100	30	100	500	5000																
STEL	Alarm	N/A	N/A	15	100	25																
TWA	Alarm	N/A	N/A	10	35	10																
Measurem Gas(CF)	Methane(1	N/A	N/A	N/A	N/A	Isobutylene(1.00)																
Calibration Time	3/2/2017	10:44	3/2/2017	10:44	3/2/2017	10:47	3/2/2017	10:44	3/2/2017	10:45												
Peak		0	21.3	0	0	0.1																
Min		0	20.9	0	0	0																
Average		0	21	0	0	0																

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Datalog

Index	Date/Time	LEL(%LEL)	LEL(%LEL)	LEL(%LEL)	LEL(%LEL)	OXY(%)	OXY(%)	OXY(%)	OXY(%)	H2S(ppm)	H2S(ppm)	H2S(ppm)	H2S(ppm)	CO(ppm)	CO(ppm)	CO(ppm)	CO(ppm)	VOC(ppm)	VOC(ppm)	VOC(ppm)	VOC(ppm)
		(Min)	(Avg)	(Max)	(Real)	(Min)	(Avg)	(Max)	(Real)	(Min)	(Avg)	(Max)	(Real)	(Min)	(Avg)	(Max)	(Real)	(Min)	(Avg)	(Max)	(Real)

1	3/22/2017	11:07:06	0	0	0	0	21.1	21.2	21.3	21.1	0	0	0	0	0	0	0	0	0	0	0
2	3/22/2017	11:07:36	0	0	0	0	20.9	21	21.1	20.9	0	0	0	0	0	0	0	0	0	0	0
3	3/22/2017	11:08:06	0	0	0	0	20.9	20.9	21.3	21.2	0	0	0	0	0	0	0	0	0	0	0
4	3/22/2017	11:08:36	0	0	0	0	20.9	20.9	21.2	20.9	0	0	0	0	0	0	0	0	0	0.1	0
5	3/22/2017	11:09:06	0	0	0	0	20.9	20.9	20.9	20.9	0	0	0	0	0	0	0	0	0.1	0.1	0.1
6	3/22/2017	11:09:36	0	0	0	0	20.9	20.9	20.9	20.9	0	0	0	0	0	0	0	0	0.1	0.1	0
7	3/22/2017	11:10:06	0	0	0	0	20.9	20.9	20.9	20.9	0	0	0	0	0	0	0	0	0	0	0
8	3/22/2017	11:10:36	0	0	0	0	20.9	20.9	20.9	20.9	0	0	0	0	0	0	0	0	0	0	0
9	3/22/2017	11:11:06	0	0	0	0	20.9	20.9	20.9	20.9	0	0	0	0	0	0	0	0	0	0	0
10	3/22/2017	11:11:36	0	0	0	0	20.9	20.9	20.9	20.9	0	0	0	0	0	0	0	0	0	0	0
11	3/22/2017	11:12:06	0	0	0	0	20.9	20.9	20.9	20.9	0	0	0	0	0	0	0	0	0	0	0
12	3/22/2017	11:12:36	0	0	0	0	20.9	20.9	20.9	20.9	0	0	0	0	0	0	0	0	0	0	0
13	3/22/2017	11:13:06	0	0	0	0	20.9	20.9	21.3	21.2	0	0	0	0	0	0	0	0	0	0	0
14	3/22/2017	11:13:36	0	0	0	0	21.1	21.1	21.2	21.1	0	0	0	0	0	0	0	0	0	0	0
15	3/22/2017	11:14:06	0	0	0	0	21.1	21.1	21.3	21.3	0	0	0	0	0	0	0	0	0	0	0
16	3/22/2017	11:14:36	0	0	0	0	21.1	21.2	21.3	21.2	0	0	0	0	0	0	0	0	0	0	0
17	3/22/2017	11:15:06	0	0	0	0	21.1	21.1	21.2	21.2	0	0	0	0	0	0	0	0	0	0	0
18	3/22/2017	11:15:36	0	0	0	0	21.1	21.1	21.2	21.1	0	0	0	0	0	0	0	0	0	0	0
19	3/22/2017	11:16:06	0	0	0	0	21.1	21.1	21.2	21.2	0	0	0	0	0	0	0	0	0	0	0
20	3/22/2017	11:16:36	0	0	0	0	21.1	21.1	21.2	21.2	0	0	0	0	0	0	0	0	0	0	0
21	3/22/2017	11:17:06	0	0	0	0	21.1	21.1	21.2	21.1	0	0	0	0	0	0	0	0	0	0	0
22	3/22/2017	11:17:36	0	0	0	0	21.2	21.3	21.4	21.3	0	0	0	0	0	0	0	0	0	0	0
23	3/22/2017	11:18:06	0	0	0	0	20.9	21.1	21.2	20.9	0	0	0	0	0	0	0	0	0	0	0
24	3/22/2017	11:18:36	0	0	0	0	20.9	20.9	20.9	20.9	0	0	0	0	0	0	0	0	0	0	0
25	3/22/2017	11:19:06	0	0	0	0	20.9	21	21.3	21.1	0	0	0	0	0	0	0	0	0	0	0
26	3/22/2017	11:19:36	0	0	0	0	21.1	21.1	21.2	21.1	0	0	0	0	0	0	0	0	0	0	0
27	3/22/2017	11:20:06	0	0	0	0	21.1	21.2	21.4	21.1	0	0	0	0	0	0	0	0	0	0	0
Peak			0	0	0	0	21.2	21.3	21.4	21.3	0	0	0	0	0	0	0	0	0.1	0.1	0.1
Min			0	0	0	0	20.9	20.9	20.9	20.9	0	0	0	0	0	0	0	0	0	0	0
Average			0	0	0	0	21	21	21.1	21	0	0	0	0	0	0	0	0	0	0	0

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TWA/STEL

Index	Date/Time	H2S(ppm) (TWA)	H2S(ppm) (STEL)	CO(ppm) (TWA)	CO(ppm) (STEL)	VOC(ppm) (TWA)	VOC(ppm) (STEL)
1	3/22/2017 11:07:06	0	---	0	---	---	---
2	3/22/2017 11:07:36	0	---	0	---	0	---
3	3/22/2017 11:08:06	0	---	0	---	0	---
4	3/22/2017 11:08:36	0	---	0	---	0	---
5	3/22/2017 11:09:06	0	---	0	---	0	---
6	3/22/2017 11:09:36	0	---	0	---	0	---
7	3/22/2017 11:10:06	0	---	0	---	0	---
8	3/22/2017 11:10:36	0	---	0	---	0	---
9	3/22/2017 11:11:06	0	---	0	---	0	---
10	3/22/2017 11:11:36	0	---	0	---	0	---
11	3/22/2017 11:12:06	0	---	0	---	0	---
12	3/22/2017 11:12:36	0	---	0	---	0	---
13	3/22/2017 11:13:06	0	---	0	---	0	---
14	3/22/2017 11:13:36	0	---	0	---	0	---
15	3/22/2017 11:14:06	0	---	0	---	0	---
16	3/22/2017 11:14:36	0	---	0	---	0	---
17	3/22/2017 11:15:06	0	---	0	---	0	---
18	3/22/2017 11:15:36	0	---	0	---	0	---
19	3/22/2017 11:16:06	0	---	0	---	0	---
20	3/22/2017 11:16:36	0	---	0	---	0	---
21	3/22/2017 11:17:06	0	---	0	---	0	---
22	3/22/2017 11:17:36	0	---	0	---	0	---



10	3/24/2017	9:21:03	0	0	0	0	21.2	21.2	21.2	21.2	0	0	0	0	0	0	0	0	0	0	0	0
11	3/24/2017	9:21:33	0	0	0	0	21.2	21.2	21.2	21.2	0	0	0	0	0	0	0	0	0	0	0	0
12	3/24/2017	9:22:03	0	0	0	0	21.2	21.2	21.2	21.2	0	0	0	0	0	0	0	0	0	0	0	0
13	3/24/2017	9:22:33	0	0	0	0	21.2	21.2	21.2	21.2	0	0	0	0	0	0	0	0	0	0	0	0
14	3/24/2017	9:23:03	0	0	0	0	21.2	21.2	21.2	21.2	0	0	0	0	0	0	0	0	0	0	0	0
15	3/24/2017	9:23:33	0	0	0	0	21.2	21.2	21.2	21.2	0	0	0	0	0	0	0	0	0	0	0	0
16	3/24/2017	9:24:03	0	0	0	0	21.2	21.2	21.2	21.2	0	0	0	0	0	0	0	0	0	0	0	0
17	3/24/2017	9:24:33	0	0	0	0	21.2	21.2	21.2	21.2	0	0	0	0	0	0	0	0	0	0	0	0
18	3/24/2017	9:25:03	0	0	0	0	21.2	21.2	21.2	21.2	0	0	0	0	0	0	0	0	0	0	0	0
19	3/24/2017	9:25:33	0	0	0	0	21.2	21.2	21.2	21.2	0	0	0	0	0	0	0	0	0	0.2	0.5	0.4
20	3/24/2017	9:26:03	0	0	0	0	21.2	21.2	21.2	21.2	0	0	0	0	0	0	0	0	0	0.2	0.5	0
21	3/24/2017	9:26:33	0	0	0	0	21.2	21.2	21.2	21.2	0	0	0	0	0	0	0	0	0	0	0	0
22	3/24/2017	9:27:03	0	0	0	0	21.2	21.2	21.2	21.2	0	0	0	0	0	0	0	0	0	0	0	0
23	3/24/2017	9:27:33	0	0	0	0	21.2	21.2	21.2	21.2	0	0	0	0	0	0	0	0	0	0	0	0
24	3/24/2017	9:28:03	0	0	0	0	21.2	21.2	21.2	21.2	0	0	0	0	0	0	0	0	0	0	0	0
25	3/24/2017	9:28:33	0	0	0	0	21.2	21.2	21.2	21.2	0	0	0	0	0	0	0	0	0	0	0	0
26	3/24/2017	9:29:03	0	0	0	0	21.2	21.2	21.2	21.2	0	0	0	0	0	0	0	0	0	0	0	0
27	3/24/2017	9:29:33	0	0	0	0	21.2	21.2	21.2	21.2	0	0	0	0	0	0	0	0	0	0	0	0
28	3/24/2017	9:30:03	0	0	0	0	21.2	21.2	21.2	21.2	0	0	0	0	0	0	0	0	0.1	0.3	0.4	0.3
29	3/24/2017	9:30:33	0	0	0	0	21.2	21.2	21.2	21.2	0	0	0	0	0	0	0	0	0.2	0.4	0.5	0.2
30	3/24/2017	9:31:03	0	0	0	0	21.1	21.1	21.2	21.2	0	0	0	0	0	0	0	0	0.1	0.2	0.5	0.3
31	3/24/2017	9:31:33	0	0	0	0	21.2	21.2	21.2	21.2	0	0	0	0	0	0	0	0	0	0.1	0.3	0
32	3/24/2017	9:32:03	0	0	0	0	21.2	21.2	21.2	21.2	0	0	0	0	0	0	0	0	0	0.1	0.2	0.2
33	3/24/2017	9:32:33	0	0	0	0	21.2	21.2	21.2	21.2	0	0	0	0	0	0	0	0	0.1	0.2	0.3	0.2
34	3/24/2017	9:33:03	0	0	0	0	21.2	21.2	21.2	21.2	0	0	0	0	0	0	0	0	0	0.1	0.2	0
35	3/24/2017	9:33:33	0	0	0	0	21.2	21.2	21.2	21.2	0	0	0	0	0	0	0	0	0	0	0	0
36	3/24/2017	9:34:03	0	0	0	0	21.2	21.2	21.2	21.2	0	0	0	0	0	0	0	0	0	0	0	0
37	3/24/2017	9:34:33	0	0	0	0	21.2	21.2	21.2	21.2	0	0	0	0	0	0	0	0	0	0	0	0
38	3/24/2017	9:35:03	0	0	0	0	21.2	21.2	21.2	21.2	0	0	0	0	0	0	0	0	0	0	0	0
39	3/24/2017	9:35:33	0	0	0	0	21.2	21.2	21.2	21.2	0	0	0	0	0	0	0	0	0	0	0	0
40	3/24/2017	9:36:03	0	0	0	0	21.1	21.1	21.2	21.1	0	0	0	0	0	0	0	0	0	0	0	0
41	3/24/2017	9:36:33	0	0	0	0	21.1	21.1	21.2	21.2	0	0	0	0	0	0	0	0	0	0	0	0
42	3/24/2017	9:37:03	0	0	0	0	21.1	21.1	21.2	21.1	0	0	0	0	0	0	0	0	0	0	0	0
43	3/24/2017	9:37:33	0	0	0	0	21.1	21.1	21.2	21.2	0	0	0	0	0	0	0	0	0	0	0	0
44	3/24/2017	9:38:03	0	0	0	0	21.2	21.2	21.2	21.2	0	0	0	0	0	0	0	0	0	0	0.1	0
45	3/24/2017	9:38:33	0	0	0	0	21.2	21.2	21.2	21.2	0	0	0	0	0	0	0	0	0	0	0	0
46	3/24/2017	9:39:03	0	0	0	0	21.1	21.1	21.2	21.2	0	0	0	0	0	0	0	0	0	0	0	0
47	3/24/2017	9:39:33	0	0	0	0	21.2	21.2	21.2	21.2	0	0	0	0	0	0	0	0	0	0	0	0
48	3/24/2017	9:40:03	0	0	0	0	21.1	21.1	21.2	21.1	0	0	0	0	0	0	0	0	0	0	0	0
49	3/24/2017	9:40:33	0	0	0	0	21.1	21.1	21.2	21.1	0	0	0	0	0	0	0	0	0	0.1	0.2	0.1
50	3/24/2017	9:41:03	0	0	0	0	21.1	21.1	21.2	21.1	0	0	0	0	0	0	0	0	0	0	0.1	0
51	3/24/2017	9:41:33	0	0	0	0	21.1	21.1	21.1	21.1	0	0	0	0	0	0	0	0	0	0	0	0
52	3/24/2017	9:42:03	0	0	0	0	21.1	21.1	21.1	21.1	0	0	0	0	0	0	0	0	0	0	0	0
53	3/24/2017	9:42:33	0	0	0	0	21.1	21.1	21.1	21.1	0	0	0	0	0	0	0	0	0	0	0.2	0.2
54	3/24/2017	9:43:03	0	0	0	0	21.1	21.1	21.1	21.1	0	0	0	0	0	0	0	0	0.1	0.2	0.2	0.1
Peak			0	0	0	0	21.2	21.2	21.3	21.2	0	0	0	0	0	0	0	0	0.2	0.4	0.5	0.4
Min			0	0	0	0	21.1	21.1	21.1	21.1	0	0	0	0	0	0	0	0	0	0	0	0
Average			0	0	0	0	21.2	21.2	21.2	21.2	0	0	0	0	0	0	0	0	0	0	0.1	0

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TWA/STEL

Index	Date/Time	H2S(ppm) (TWA)	H2S(ppm) (STEL)	CO(ppm) (TWA)	CO(ppm) (STEL)	VOC(ppm) (TWA)	VOC(ppm) (STEL)
1	3/24/2017 9:16:33	0	---	0	---	---	---
2	3/24/2017 9:17:03	0	---	0	---	0	---
3	3/24/2017 9:17:33	0	---	0	---	0	---
4	3/24/2017 9:18:03	0	---	0	---	0	---

5	3/24/2017	9:18:33	0	---	0	---	0	---
6	3/24/2017	9:19:03	0	---	0	---	0	---
7	3/24/2017	9:19:33	0	---	0	---	0	---
8	3/24/2017	9:20:03	0	---	0	---	0	---
9	3/24/2017	9:20:33	0	---	0	---	0	---
10	3/24/2017	9:21:03	0	---	0	---	0	---
11	3/24/2017	9:21:33	0	---	0	---	0	---
12	3/24/2017	9:22:03	0	---	0	---	0	---
13	3/24/2017	9:22:33	0	---	0	---	0	---
14	3/24/2017	9:23:03	0	---	0	---	0	---
15	3/24/2017	9:23:33	0	---	0	---	0	---
16	3/24/2017	9:24:03	0	---	0	---	0	---
17	3/24/2017	9:24:33	0	---	0	---	0	---
18	3/24/2017	9:25:03	0	---	0	---	0	---
19	3/24/2017	9:25:33	0	---	0	---	0	---
20	3/24/2017	9:26:03	0	---	0	---	0	---
21	3/24/2017	9:26:33	0	---	0	---	0	---
22	3/24/2017	9:27:03	0	---	0	---	0	---
23	3/24/2017	9:27:33	0	---	0	---	0	---
24	3/24/2017	9:28:03	0	---	0	---	0	---
25	3/24/2017	9:28:33	0	---	0	---	0	---
26	3/24/2017	9:29:03	0	---	0	---	0	---
27	3/24/2017	9:29:33	0	---	0	---	0	---
28	3/24/2017	9:30:03	0	---	0	---	0	---
29	3/24/2017	9:30:33	0	---	0	---	0	---
30	3/24/2017	9:31:03	0	0	0	0	0	---
31	3/24/2017	9:31:33	0	0	0	0	0	0
32	3/24/2017	9:32:03	0	0	0	0	0	0
33	3/24/2017	9:32:33	0	0	0	0	0	0.1
34	3/24/2017	9:33:03	0	0	0	0	0	0.1
35	3/24/2017	9:33:33	0	0	0	0	0	0.1
36	3/24/2017	9:34:03	0	0	0	0	0	0.1
37	3/24/2017	9:34:33	0	0	0	0	0	0.1
38	3/24/2017	9:35:03	0	0	0	0	0	0.1
39	3/24/2017	9:35:33	0	0	0	0	0	0.1
40	3/24/2017	9:36:03	0	0	0	0	0	0.1
41	3/24/2017	9:36:33	0	0	0	0	0	0.1
42	3/24/2017	9:37:03	0	0	0	0	0	0.1
43	3/24/2017	9:37:33	0	0	0	0	0	0.1
44	3/24/2017	9:38:03	0	0	0	0	0	0.1
45	3/24/2017	9:38:33	0	0	0	0	0	0.1
46	3/24/2017	9:39:03	0	0	0	0	0	0.1
47	3/24/2017	9:39:33	0	0	0	0	0	0.1
48	3/24/2017	9:40:03	0	0	0	0	0	0.1
49	3/24/2017	9:40:33	0	0	0	0	0	0
50	3/24/2017	9:41:03	0	0	0	0	0	0
51	3/24/2017	9:41:33	0	0	0	0	0	0
52	3/24/2017	9:42:03	0	0	0	0	0	0
53	3/24/2017	9:42:33	0	0	0	0	0	0.1
54	3/24/2017	9:43:03	0	0	0	0	0	0.1

=====  
17/03/24 9:46  
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Summary

-----  
Unit Name MultiRAE(PGM-6228)  
Unit SN MBB3Z034P9

```

Unit      Firmware  Ver      V1.18
-----
Running  Mode      Hygiene  Mode
Datalog  Mode      Auto
Diagnostic Mode    No
Stop     Reason   Power    Down
-----
Site     ID        3
User     ID        1
-----

```

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Begin      3/24/2017  9:46:39
End        3/24/2017  10:06:27
Sample    Period(s)  30
Number    of         Records  39
-----

```

### Vertical Clustser at Brown's Creek

Sensor	LEL(%LEL)	OXY(%)	H2S(ppm)	CO(ppm)	VOC(ppm)															
Sensor SN	SC0311019	SC034204C	SC03AR0080	SC0306004	SC03A40140P7															
Measure Type	Min	Avg	Max	Real	Min	Avg	Max	Real	Min	Avg	Max	Real	Min	Avg	Max	Real	Min	Avg	Max	Real
Span		50	18	1	50	10														
Span	2	N/A	N/A	N/A	N/A	1000														
Low Alarm		10	19.5	10	5	50														
High Alarm		20	23.5	20	200	100														
Over Alarm		100	30	100	500	5000														
STEL Alarm	N/A	N/A		15	100	25														
TWA Alarm	N/A	N/A		10	35	10														
Measurem Gas(CF)	Methane(1	N/A	N/A	N/A	Isobutylene(1.00)															
CalibrationTime	3/2/2017	10:44	3/2/2017	10:44	3/2/2017	10:47	3/2/2017	10:44	3/2/2017	10:45										
Peak		0	21.2	0	0	5														
Min		0	21.1	0	0	0														
Average		0	21.1	0	0	0.5														

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Datalog

Index	Date/Time	LEL(%LEL) (Min)	LEL(%LEL) (Avg)	LEL(%LEL) (Max)	LEL(%LEL) (Real)	OXY(%) (Min)	OXY(%) (Avg)	OXY(%) (Max)	OXY(%) (Real)	H2S(ppm) (Min)	H2S(ppm) (Avg)	H2S(ppm) (Max)	H2S(ppm) (Real)	CO(ppm) (Min)	CO(ppm) (Avg)	CO(ppm) (Max)	CO(ppm) (Real)	VOC(ppm) (Min)	VOC(ppm) (Avg)	VOC(ppm) (Max)	VOC(ppm) (Real)	
1	3/24/2017 9:47:09	0	0	0	0	21.1	21.1	21.1	21.1	0	0	0	0	0	0	0	0	0	---	---	---	---
2	3/24/2017 9:47:39	0	0	0	0	21.1	21.1	21.1	21.1	0	0	0	0	0	0	0	0	0	0	0	0.2	0
3	3/24/2017 9:48:09	0	0	0	0	21.1	21.1	21.1	21.1	0	0	0	0	0	0	0	0	0	0	0	0.1	0.1
4	3/24/2017 9:48:39	0	0	0	0	21.1	21.1	21.1	21.1	0	0	0	0	0	0	0	0	0	0	0.1	0.8	0.6
5	3/24/2017 9:49:09	0	0	0	0	21.1	21.1	21.1	21.1	0	0	0	0	0	0	0	0	0	0	0.1	0.5	0
6	3/24/2017 9:49:39	0	0	0	0	21.1	21.1	21.1	21.1	0	0	0	0	0	0	0	0	0	0	0	0.2	0.1
7	3/24/2017 9:50:09	0	0	0	0	21.1	21.1	21.1	21.1	0	0	0	0	0	0	0	0	0	0	0	0	0
8	3/24/2017 9:50:39	0	0	0	0	21.1	21.1	21.1	21.1	0	0	0	0	0	0	0	0	0	0	0	0	0
9	3/24/2017 9:51:09	0	0	0	0	21.1	21.1	21.1	21.1	0	0	0	0	0	0	0	0	0	0	0.1	0.2	0
10	3/24/2017 9:51:39	0	0	0	0	21.1	21.1	21.1	21.1	0	0	0	0	0	0	0	0	0	0	0	0.1	0.1
11	3/24/2017 9:52:09	0	0	0	0	21.1	21.1	21.1	21.1	0	0	0	0	0	0	0	0	0	0	0.3	1.7	0
12	3/24/2017 9:52:39	0	0	0	0	21.1	21.1	21.2	21.2	0	0	0	0	0	0	0	0	0	0	0.1	0.2	0.1
13	3/24/2017 9:53:09	0	0	0	0	21.1	21.1	21.2	21.1	0	0	0	0	0	0	0	0	0	0	0	0	0
14	3/24/2017 9:53:39	0	0	0	0	21.1	21.1	21.2	21.2	0	0	0	0	0	0	0	0	0	0	0	0	0
15	3/24/2017 9:54:09	0	0	0	0	21.1	21.1	21.2	21.2	0	0	0	0	0	0	0	0	0	0	0	0.2	0.2
16	3/24/2017 9:54:39	0	0	0	0	21.2	21.2	21.2	21.2	0	0	0	0	0	0	0	0	0	0.1	0.4	0.9	0.9
17	3/24/2017 9:55:09	0	0	0	0	21.2	21.2	21.2	21.2	0	0	0	0	0	0	0	0	0	0	0.2	1	0
18	3/24/2017 9:55:39	0	0	0	0	21.1	21.1	21.2	21.1	0	0	0	0	0	0	0	0	0	0	0.5	1.4	0.9
19	3/24/2017 9:56:09	0	0	0	0	21.1	21.1	21.1	21.1	0	0	0	0	0	0	0	0	0	0.2	0.6	1.2	1.1
20	3/24/2017 9:56:39	0	0	0	0	21.1	21.1	21.1	21.1	0	0	0	0	0	0	0	0	0	0.2	0.9	1.9	1.9
21	3/24/2017 9:57:09	0	0	0	0	21.1	21.1	21.1	21.1	0	0	0	0	0	0	0	0	0	0.1	1.3	4.3	0.1

22	3/24/2017	9:57:39	0	0	0	0	21.1	21.1	21.1	21.1	0	0	0	0	0	0	0	0	0	0.3	1.2	0
23	3/24/2017	9:58:09	0	0	0	0	21.1	21.1	21.1	21.1	0	0	0	0	0	0	0	0	0	0.5	1.2	0.3
24	3/24/2017	9:58:39	0	0	0	0	21.1	21.1	21.1	21.1	0	0	0	0	0	0	0	0	0.3	0.8	1.9	0.5
25	3/24/2017	9:59:09	0	0	0	0	21.1	21.1	21.1	21.1	0	0	0	0	0	0	0	0	0	0.3	0.5	0
26	3/24/2017	9:59:39	0	0	0	0	21.1	21.1	21.1	21.1	0	0	0	0	0	0	0	0	0	0	0	0
27	3/24/2017	10:00:09	0	0	0	0	21.1	21.1	21.1	21.1	0	0	0	0	0	0	0	0	0	0.1	0.3	0.2
28	3/24/2017	10:00:39	0	0	0	0	21.1	21.1	21.1	21.1	0	0	0	0	0	0	0	0	0	0.1	0.2	0
29	3/24/2017	10:01:09	0	0	0	0	21.1	21.1	21.1	21.1	0	0	0	0	0	0	0	0	0	0.4	1.1	1.1
30	3/24/2017	10:01:39	0	0	0	0	21.1	21.1	21.1	21.1	0	0	0	0	0	0	0	0	1.3	3	6.8	1.6
31	3/24/2017	10:02:09	0	0	0	0	21.1	21.1	21.1	21.1	0	0	0	0	0	0	0	0	0.7	1.2	1.7	1.3
32	3/24/2017	10:02:39	0	0	0	0	21.1	21.1	21.1	21.1	0	0	0	0	0	0	0	0	0.1	0.4	1.2	1.2
33	3/24/2017	10:03:09	0	0	0	0	21.1	21.1	21.1	21.1	0	0	0	0	0	0	0	0	0.2	1.1	1.9	0.3
34	3/24/2017	10:03:39	0	0	0	0	21.1	21.1	21.1	21.1	0	0	0	0	0	0	0	0	0	0.3	1	0.7
35	3/24/2017	10:04:09	0	0	0	0	21.1	21.1	21.1	21.1	0	0	0	0	0	0	0	0	0.2	1.7	5	5
36	3/24/2017	10:04:39	0	0	0	0	21.1	21.1	21.1	21.1	0	0	0	0	0	0	0	0	1.2	2.1	4.5	1.8
37	3/24/2017	10:05:09	0	0	0	0	21.1	21.1	21.1	21.1	0	0	0	0	0	0	0	0	0.6	2.4	5.3	0.6
38	3/24/2017	10:05:39	0	0	0	0	21.1	21.1	21.1	21.1	0	0	0	0	0	0	0	0	0	0.1	0.5	0
39	3/24/2017	10:06:09	0	0	0	0	21.1	21.1	21.1	21.1	0	0	0	0	0	0	0	0	0	0	0	0
Peak			0	0	0	0	21.2	21.2	21.2	21.2	0	0	0	0	0	0	0	0	1.3	3	6.8	5
Min			0	0	0	0	21.1	21.1	21.1	21.1	0	0	0	0	0	0	0	0	0	0	0	0
Average			0	0	0	0	21.1	21.1	21.1	21.1	0	0	0	0	0	0	0	0	0.1	0.5	1.3	0.5

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TWA/STEL

Index	Date/Time	H2S(ppm)		CO(ppm)		VOC(ppm)	
		(TWA)	(STEL)	(TWA)	(STEL)	(TWA)	(STEL)
1	3/24/2017	9:47:09	0 ---		0 ---		---
2	3/24/2017	9:47:39	0 ---		0 ---		0 ---
3	3/24/2017	9:48:09	0 ---		0 ---		0 ---
4	3/24/2017	9:48:39	0 ---		0 ---		0 ---
5	3/24/2017	9:49:09	0 ---		0 ---		0 ---
6	3/24/2017	9:49:39	0 ---		0 ---		0 ---
7	3/24/2017	9:50:09	0 ---		0 ---		0 ---
8	3/24/2017	9:50:39	0 ---		0 ---		0 ---
9	3/24/2017	9:51:09	0 ---		0 ---		0 ---
10	3/24/2017	9:51:39	0 ---		0 ---		0 ---
11	3/24/2017	9:52:09	0 ---		0 ---		0 ---
12	3/24/2017	9:52:39	0 ---		0 ---		0 ---
13	3/24/2017	9:53:09	0 ---		0 ---		0 ---
14	3/24/2017	9:53:39	0 ---		0 ---		0 ---
15	3/24/2017	9:54:09	0 ---		0 ---		0 ---
16	3/24/2017	9:54:39	0 ---		0 ---		0 ---
17	3/24/2017	9:55:09	0 ---		0 ---		0 ---
18	3/24/2017	9:55:39	0 ---		0 ---		0 ---
19	3/24/2017	9:56:09	0 ---		0 ---		0 ---
20	3/24/2017	9:56:39	0 ---		0 ---		0 ---
21	3/24/2017	9:57:09	0 ---		0 ---		0 ---
22	3/24/2017	9:57:39	0 ---		0 ---		0 ---
23	3/24/2017	9:58:09	0 ---		0 ---		0 ---
24	3/24/2017	9:58:39	0 ---		0 ---		0 ---
25	3/24/2017	9:59:09	0 ---		0 ---		0 ---
26	3/24/2017	9:59:39	0 ---		0 ---		0 ---
27	3/24/2017	10:00:09	0 ---		0 ---		0 ---
28	3/24/2017	10:00:39	0 ---		0 ---		0 ---
29	3/24/2017	10:01:09	0 ---		0 ---		0 ---
30	3/24/2017	10:01:39	0	0	0	0	0 ---
31	3/24/2017	10:02:09	0	0	0	0	0.4





7	3/24/2017	11:40:23	0	0	0	0	21.2	21.2	21.2	21.2	0	0	0	0	0	0	0	0	0.6	1.8	0.4
8	3/24/2017	11:40:53	0	0	0	0	21.2	21.2	21.2	21.2	0	0	0	0	0	0	0	0.2	0.5	1.3	0.2
9	3/24/2017	11:41:23	0	0	0	0	21.2	21.2	21.2	21.2	0	0	0	0	0	0	0	0.2	1.8	4	1.3
10	3/24/2017	11:41:53	0	0	0	0	21.2	21.2	21.2	21.2	0	0	0	0	0	0	0	0	0.3	1	0.1
11	3/24/2017	11:42:23	0	0	0	0	21.2	21.2	21.2	21.2	0	0	0	0	0	0	0	0	0.9	1.7	0.3
12	3/24/2017	11:42:53	0	0	0	0	21.2	21.2	21.2	21.2	0	0	0	0	0	0	0	0	0.2	0.8	0.8
13	3/24/2017	11:43:23	0	0	0	0	21.2	21.2	21.2	21.2	0	0	0	0	0	0	0	0.1	2.1	8.9	0.1
14	3/24/2017	11:43:53	0	0	0	0	21.2	21.2	21.2	21.2	0	0	0	0	0	0	0	0	0.4	0.9	0
15	3/24/2017	11:44:23	0	0	0	0	21.2	21.2	21.2	21.2	0	0	0	0	0	0	0	0	2.8	13.9	5.1
16	3/24/2017	11:44:53	0	0	0	0	21.2	21.2	21.2	21.2	0	0	0	0	0	0	0	0.3	1	3.1	0.5
17	3/24/2017	11:45:23	0	0	0	0	21.2	21.2	21.2	21.2	0	0	0	0	0	0	0	0.1	0.4	1.1	0.2
18	3/24/2017	11:45:53	0	0	0	0	21.2	21.2	21.2	21.2	0	0	0	0	0	0	0	0	0	0.2	0.2
19	3/24/2017	11:46:23	0	0	0	0	21.2	21.2	21.2	21.2	0	0	0	0	0	0	0	0	0.4	1.2	0.1
20	3/24/2017	11:46:53	0	0	0	0	21.2	21.2	21.2	21.2	0	0	0	0	0	0	0	0	0.1	0.6	0
21	3/24/2017	11:47:23	0	0	0	0	21.2	21.2	21.2	21.2	0	0	0	0	0	0	0	0	0.9	2	0.6
22	3/24/2017	11:47:53	0	0	0	0	21.2	21.2	21.2	21.2	0	0	0	0	0	0	0	0	0.5	1.9	1.2
23	3/24/2017	11:48:23	0	0	0	0	21.2	21.2	21.2	21.2	0	0	0	0	0	0	0	0	1.2	3.1	1.6
24	3/24/2017	11:48:53	0	0	0	0	21.2	21.2	21.2	21.2	0	0	0	0	0	0	0	0	0.8	2	0
25	3/24/2017	11:49:23	0	0	0	0	21.2	21.2	21.2	21.2	0	0	0	0	0	0	0	0	0	0	0
26	3/24/2017	11:49:53	0	0	0	0	21.2	21.2	21.2	21.2	0	0	0	0	0	0	0	0	0	0	0
27	3/24/2017	11:50:23	0	0	0	0	21.2	21.2	21.2	21.2	0	0	0	0	0	0	0	0	0	0	0
28	3/24/2017	11:50:53	0	0	0	0	21.2	21.2	21.2	21.2	0	0	0	0	0	0	0	0	0.2	1	0.5
29	3/24/2017	11:51:23	0	0	0	0	21.2	21.2	21.2	21.2	0	0	0	0	0	0	0	0	0.2	0.5	0.2
30	3/24/2017	11:51:53	0	0	0	0	21.2	21.2	21.2	21.2	0	0	0	0	0	0	0	0	0	0.2	0
31	3/24/2017	11:52:23	0	0	0	0	21.2	21.2	21.2	21.2	0	0	0	0	0	0	0	0	0	0	0
32	3/24/2017	11:52:53	0	0	0	0	21.2	21.2	21.2	21.2	0	0	0	0	0	0	0	0	0	0.2	0.2
33	3/24/2017	11:53:23	0	0	0	0	21.2	21.2	21.2	21.2	0	0	0	0	0	0	0	0	0.1	0.8	0.1
Peak			0	0	0	0	21.2	21.2	21.2	21.2	0	0	0	0	0	0	0	0.3	2.8	13.9	5.1
Min			0	0	0	0	21.2	21.2	21.2	21.2	0	0	0	0	0	0	0	0	0	0	0
Average			0	0	0	0	21.2	21.2	21.2	21.2	0	0	0	0	0	0	0	0	0.5	1.7	0.4

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TWA/STEL

Index	Date/Time	H2S(ppm) (TWA)	H2S(ppm) (STEL)	CO(ppm) (TWA)	CO(ppm) (STEL)	VOC(ppm) (TWA)	VOC(ppm) (STEL)
1	3/24/2017 11:37:23	0	---	0	---	---	---
2	3/24/2017 11:37:53	0	---	0	---	0	---
3	3/24/2017 11:38:23	0	---	0	---	0	---
4	3/24/2017 11:38:53	0	---	0	---	0	---
5	3/24/2017 11:39:23	0	---	0	---	0	---
6	3/24/2017 11:39:53	0	---	0	---	0	---
7	3/24/2017 11:40:23	0	---	0	---	0	---
8	3/24/2017 11:40:53	0	---	0	---	0	---
9	3/24/2017 11:41:23	0	---	0	---	0	---
10	3/24/2017 11:41:53	0	---	0	---	0	---
11	3/24/2017 11:42:23	0	---	0	---	0	---
12	3/24/2017 11:42:53	0	---	0	---	0	---
13	3/24/2017 11:43:23	0	---	0	---	0	---
14	3/24/2017 11:43:53	0	---	0	---	0	---
15	3/24/2017 11:44:23	0	---	0	---	0	---
16	3/24/2017 11:44:53	0	---	0	---	0	---
17	3/24/2017 11:45:23	0	---	0	---	0	---
18	3/24/2017 11:45:53	0	---	0	---	0	---
19	3/24/2017 11:46:23	0	---	0	---	0	---
20	3/24/2017 11:46:53	0	---	0	---	0	---
21	3/24/2017 11:47:23	0	---	0	---	0	---
22	3/24/2017 11:47:53	0	---	0	---	0	---



4	3/24/2017	12:34:41	0	0	0	0	21.2	21.2	21.2	21.2	0	0	0	0	0	0	0	0	0	0	0	0
5	3/24/2017	12:35:11	0	0	0	0	21.2	21.2	21.2	21.2	0	0	0	0	0	0	0	0	0	0	0	0
6	3/24/2017	12:35:41	0	0	0	0	21.2	21.2	21.2	21.2	0	0	0	0	0	0	0	0	0	0	0	0
7	3/24/2017	12:36:11	0	0	0	0	21.2	21.2	21.2	21.2	0	0	0	0	0	0	0	0	0	0	0	0
8	3/24/2017	12:36:41	0	0	0	0	21.1	21.1	21.2	21.1	0	0	0	0	0	0	0	0	0	0	0	0
9	3/24/2017	12:37:11	0	0	0	0	21.1	21.1	21.1	21.1	0	0	0	0	0	0	0	0	0	0	0	0
10	3/24/2017	12:37:41	0	0	0	0	21.1	21.1	21.1	21.1	0	0	0	0	0	0	0	0	0	0	0	0
11	3/24/2017	12:38:11	0	0	0	0	21.1	21.1	21.1	21.1	0	0	0	0	0	0	0	0	0	0	0	0
12	3/24/2017	12:38:41	0	0	0	0	21.1	21.1	21.1	21.1	0	0	0	0	0	0	0	0	0	0	0	0
13	3/24/2017	12:39:11	0	0	0	0	21.1	21.1	21.1	21.1	0	0	0	0	0	0	0	0	0	0	0	0
14	3/24/2017	12:39:41	0	0	0	0	21.1	21.1	21.1	21.1	0	0	0	0	0	0	0	0	0	0	0	0
15	3/24/2017	12:40:11	0	0	0	0	21.1	21.1	21.1	21.1	0	0	0	0	0	0	0	0	0	0	0	0
16	3/24/2017	12:40:41	0	0	0	0	21.1	21.1	21.1	21.1	0	0	0	0	0	0	0	0	0	0	0	0
17	3/24/2017	12:41:11	0	0	0	0	21.1	21.1	21.1	21.1	0	0	0	0	0	0	0	0	0	0	0	0
18	3/24/2017	12:41:41	0	0	0	0	21.1	21.1	21.1	21.1	0	0	0	0	0	0	0	0	0	0	0	0
19	3/24/2017	12:42:11	0	0	0	0	21.1	21.1	21.1	21.1	0	0	0	0	0	0	0	0	0	0	0	0
20	3/24/2017	12:42:41	0	0	0	0	21.1	21.1	21.1	21.1	0	0	0	0	0	0	0	0	0	0	0	0
21	3/24/2017	12:43:11	0	0	0	0	21.1	21.1	21.1	21.1	0	0	0	0	0	0	0	0	0	0	0	0
22	3/24/2017	12:43:41	0	0	0	0	21.1	21.1	21.1	21.1	0	0	0	0	0	0	0	0	0	0	0	0
23	3/24/2017	12:44:11	0	0	0	0	21.1	21.1	21.1	21.1	0	0	0	0	0	0	0	0	0	0	0	0
24	3/24/2017	12:44:41	0	0	0	0	21.1	21.1	21.1	21.1	0	0	0	0	0	0	0	0	0	0	0	0
25	3/24/2017	12:45:11	0	0	0	0	21.1	21.1	21.1	21.1	0	0	0	0	0	0	0	0	0	0	0	0
26	3/24/2017	12:45:41	0	0	0	0	21.1	21.1	21.1	21.1	0	0	0	0	0	0	0	0	0	0	0	0
27	3/24/2017	12:46:11	0	0	0	0	21.1	21.1	21.1	21.1	0	0	0	0	0	0	0	0	0	0	0	0
28	3/24/2017	12:46:41	0	0	0	0	21.1	21.1	21.1	21.1	0	0	0	0	0	0	0	0	0	0	0	0
29	3/24/2017	12:47:11	0	0	0	0	21.1	21.1	21.1	21.1	0	0	0	0	0	0	0	0	0	0	0	0
30	3/24/2017	12:47:41	0	0	0	0	21.1	21.1	21.1	21.1	0	0	0	0	0	0	0	0	0	0	0	0
31	3/24/2017	12:48:11	0	0	0	0	21.1	21.1	21.1	21.1	0	0	0	0	0	0	0	0	0	0	0	0
32	3/24/2017	12:48:41	0	0	0	0	21.1	21.1	21.1	21.1	0	0	0	0	0	0	0	0	0	0	0	0
Peak			0	0	0	0	21.2	21.2	21.2	21.2	0	0	0	0	0	0	0	0	0	0	0	0
Min			0	0	0	0	21.1	21.1	21.1	21.1	0	0	0	0	0	0	0	0	0	0	0	0
Average			0	0	0	0	21.1	21.1	21.1	21.1	0	0	0	0	0	0	0	0	0	0	0	0

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TWA/STEL

Index	Date/Time	H2S(ppm) (TWA)	H2S(ppm) (STEL)	CO(ppm) (TWA)	CO(ppm) (STEL)	VOC(ppm) (TWA)	VOC(ppm) (STEL)
1	3/24/2017 12:33:11	0	---	0	---	---	---
2	3/24/2017 12:33:41	0	---	0	---	0	---
3	3/24/2017 12:34:11	0	---	0	---	0	---
4	3/24/2017 12:34:41	0	---	0	---	0	---
5	3/24/2017 12:35:11	0	---	0	---	0	---
6	3/24/2017 12:35:41	0	---	0	---	0	---
7	3/24/2017 12:36:11	0	---	0	---	0	---
8	3/24/2017 12:36:41	0	---	0	---	0	---
9	3/24/2017 12:37:11	0	---	0	---	0	---
10	3/24/2017 12:37:41	0	---	0	---	0	---
11	3/24/2017 12:38:11	0	---	0	---	0	---
12	3/24/2017 12:38:41	0	---	0	---	0	---
13	3/24/2017 12:39:11	0	---	0	---	0	---
14	3/24/2017 12:39:41	0	---	0	---	0	---
15	3/24/2017 12:40:11	0	---	0	---	0	---
16	3/24/2017 12:40:41	0	---	0	---	0	---
17	3/24/2017 12:41:11	0	---	0	---	0	---
18	3/24/2017 12:41:41	0	---	0	---	0	---
19	3/24/2017 12:42:11	0	---	0	---	0	---
20	3/24/2017 12:42:41	0	---	0	---	0	---



3	3/24/2017	13:03:41	0	0	0	0	21.2	21.2	21.2	21.2	0	0	0	0	0	0	0	0	0	0	0	0
4	3/24/2017	13:04:11	0	0	0	0	21.2	21.2	21.2	21.2	0	0	0	0	0	0	0	0	0	0	0	0
5	3/24/2017	13:04:41	0	0	0	0	21.2	21.2	21.2	21.2	0	0	0	0	0	0	0	0	0	0	0	0
6	3/24/2017	13:05:11	0	0	0	0	21.2	21.2	21.2	21.2	0	0	0	0	0	0	0	0	0	0	0	0
7	3/24/2017	13:05:41	0	0	0	0	21.2	21.2	21.2	21.2	0	0	0	0	0	0	0	0	0	0	0	0
8	3/24/2017	13:06:11	0	0	0	0	21.2	21.2	21.2	21.2	0	0	0	0	0	0	0	0	0	0	0	0
9	3/24/2017	13:06:41	0	0	0	0	21.2	21.2	21.2	21.2	0	0	0	0	0	0	0	0	0	0	0	0
10	3/24/2017	13:07:11	0	0	0	0	21.2	21.2	21.2	21.2	0	0	0	0	0	0	0	0	0	0	0.1	0.1
11	3/24/2017	13:07:41	0	0	0	0	21.2	21.2	21.2	21.2	0	0	0	0	0	0	0	0	0	0	0	0
12	3/24/2017	13:08:11	0	0	0	0	21.2	21.2	21.2	21.2	0	0	0	0	0	0	0	0	0	0	0	0
13	3/24/2017	13:08:41	0	0	0	0	21.2	21.2	21.2	21.2	0	0	0	0	0	0	0	0	0	0	0	0
14	3/24/2017	13:09:11	0	0	0	0	21.2	21.2	21.2	21.2	0	0	0	0	0	0	0	0	0	0	0	0
15	3/24/2017	13:09:41	0	0	0	0	21.2	21.2	21.2	21.2	0	0	0	0	0	0	0	0	0	0	0	0
16	3/24/2017	13:10:11	0	0	0	0	21.2	21.2	21.2	21.2	0	0	0	0	0	0	0	0	0	0	0	0
17	3/24/2017	13:10:41	0	0	0	0	21.2	21.2	21.2	21.2	0	0	0	0	0	0	0	0	0	0	0	0
18	3/24/2017	13:11:11	0	0	0	0	21.2	21.2	21.2	21.2	0	0	0	0	0	0	0	0	0	0	0	0
19	3/24/2017	13:11:41	0	0	0	0	21.2	21.2	21.2	21.2	0	0	0	0	0	0	0	0	0	0	0	0
20	3/24/2017	13:12:11	0	0	0	0	21.2	21.2	21.2	21.2	0	0	0	0	0	0	0	0	0	0	0	0
21	3/24/2017	13:12:41	0	0	0	0	21.2	21.2	21.2	21.2	0	0	0	0	0	0	0	0	0	0	0	0
22	3/24/2017	13:13:11	0	0	0	0	21.2	21.2	21.2	21.2	0	0	0	0	0	0	0	0	0	0	0	0
23	3/24/2017	13:13:41	0	0	0	0	21.2	21.2	21.2	21.2	0	0	0	0	0	0	0	0	0	0	0	0
24	3/24/2017	13:14:11	0	0	0	0	21.2	21.2	21.2	21.2	0	0	0	0	0	0	0	0	0	0	0	0
25	3/24/2017	13:14:41	0	0	0	0	21.2	21.2	21.2	21.2	0	0	0	0	0	0	0	0	0	0	0	0
26	3/24/2017	13:15:11	0	0	0	0	21.2	21.2	21.2	21.2	0	0	0	0	0	0	0	0	0	0	0	0
27	3/24/2017	13:15:41	0	0	0	0	21.2	21.2	21.2	21.2	0	0	0	0	0	0	0	0	0	0	0	0
28	3/24/2017	13:16:11	0	0	0	0	21.2	21.2	21.2	21.2	0	0	0	0	0	0	0	0	0	0	0	0
29	3/24/2017	13:16:41	0	0	0	0	21.2	21.2	21.2	21.2	0	0	0	0	0	0	0	0	0	0	0	0
30	3/24/2017	13:17:11	0	0	0	0	21.2	21.2	21.2	21.2	0	0	0	0	0	0	0	0	0	0	0	0
31	3/24/2017	13:17:41	0	0	0	0	21.2	21.2	21.2	21.2	0	0	0	0	0	0	0	0	0	0	0	0
32	3/24/2017	13:18:11	0	0	0	0	21.2	21.2	21.2	21.2	0	0	0	0	0	0	0	0	0	0	0	0
Peak			0	0	0	0	21.2	21.2	21.2	21.2	0	0	0	0	0	0	0	0	0	0	0.1	0.1
Min			0	0	0	0	21.2	21.2	21.2	21.2	0	0	0	0	0	0	0	0	0	0	0	0
Average			0	0	0	0	21.2	21.2	21.2	21.2	0	0	0	0	0	0	0	0	0	0	0	0

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TWA/STEL

Index	Date/Time	H2S(ppm) (TWA)	H2S(ppm) (STEL)	CO(ppm) (TWA)	CO(ppm) (STEL)	VOC(ppm) (TWA)	VOC(ppm) (STEL)
1	3/24/2017 13:02:41	0	---	0	---	---	---
2	3/24/2017 13:03:11	0	---	0	---	0	---
3	3/24/2017 13:03:41	0	---	0	---	0	---
4	3/24/2017 13:04:11	0	---	0	---	0	---
5	3/24/2017 13:04:41	0	---	0	---	0	---
6	3/24/2017 13:05:11	0	---	0	---	0	---
7	3/24/2017 13:05:41	0	---	0	---	0	---
8	3/24/2017 13:06:11	0	---	0	---	0	---
9	3/24/2017 13:06:41	0	---	0	---	0	---
10	3/24/2017 13:07:11	0	---	0	---	0	---
11	3/24/2017 13:07:41	0	---	0	---	0	---
12	3/24/2017 13:08:11	0	---	0	---	0	---
13	3/24/2017 13:08:41	0	---	0	---	0	---
14	3/24/2017 13:09:11	0	---	0	---	0	---
15	3/24/2017 13:09:41	0	---	0	---	0	---
16	3/24/2017 13:10:11	0	---	0	---	0	---
17	3/24/2017 13:10:41	0	---	0	---	0	---
18	3/24/2017 13:11:11	0	---	0	---	0	---
19	3/24/2017 13:11:41	0	---	0	---	0	---



2	3/24/2017	15:28:26	0	0	0	0	21.7	21.7	21.7	21.7	0	0	0	0	0	0	0	0	0	0	0	0
3	3/24/2017	15:28:56	0	0	0	0	21.7	21.7	21.8	21.8	0	0	0	0	0	0	0	0	0	0	0	0
4	3/24/2017	15:29:26	0	0	0	0	21.8	21.8	21.8	21.8	0	0	0	0	0	0	0	0	0	0	0	0
5	3/24/2017	15:29:56	0	0	0	0	21.8	21.8	21.8	21.8	0	0	0	0	0	0	0	0	0	0	0	0
6	3/24/2017	15:30:26	0	0	0	0	21.8	21.8	21.8	21.8	0	0	0	0	0	0	0	0	0	0	0	0
7	3/24/2017	15:30:56	0	0	0	0	21.8	21.8	21.8	21.8	0	0	0	0	0	0	0	0	0	0	0	0
8	3/24/2017	15:31:26	0	0	0	0	21.8	21.8	21.8	21.8	0	0	0	0	0	0	0	0	0	0	0	0
9	3/24/2017	15:31:56	0	0	0	0	21.8	21.8	21.8	21.8	0	0	0	0	0	0	0	0	0	0	0	0
10	3/24/2017	15:32:26	0	0	0	0	21.8	21.8	21.8	21.8	0	0	0	0	0	0	0	0	0	0	0	0
11	3/24/2017	15:32:56	0	0	0	0	21.8	21.8	21.8	21.8	0	0	0	0	0	0	0	0	0	0	0	0
12	3/24/2017	15:33:26	0	0	0	0	21.8	21.8	21.8	21.8	0	0	0	0	0	0	0	0	0	0	0	0
13	3/24/2017	15:33:56	0	0	0	0	21.8	21.8	21.8	21.8	0	0	0	0	0	0	0	0	0	0	0	0
14	3/24/2017	15:34:26	0	0	0	0	21.8	21.8	21.8	21.8	0	0	0	0	0	0	0	0	0	0	0.2	0.1
15	3/24/2017	15:34:56	0	0	0	0	21.8	21.8	21.8	21.8	0	0	0	0	0	0	0	0	0	0	0.2	0
16	3/24/2017	15:35:26	0	0	0	0	21.8	21.8	21.8	21.8	0	0	0	0	0	0	0	0	0	0.1	0.1	0.1
17	3/24/2017	15:35:56	0	0	0	0	21.8	21.8	21.8	21.8	0	0	0	0	0	0	0	0	0.1	0.2	0.5	0.1
18	3/24/2017	15:36:26	0	0	0	0	21.8	21.8	21.8	21.8	0	0	0	0	0	0	0	0	0	0	0.1	0
19	3/24/2017	15:36:56	0	0	0	0	21.8	21.8	21.8	21.8	0	0	0	0	0	0	0	0	0	0	0	0
20	3/24/2017	15:37:26	0	0	0	0	21.8	21.8	21.8	21.8	0	0	0	0	0	0	0	0	0	0	0	0
21	3/24/2017	15:37:56	0	0	0	0	21.8	21.8	21.8	21.8	0	0	0	0	0	0	0	0	0	0	0	0
22	3/24/2017	15:38:26	0	0	0	0	21.8	21.8	21.8	21.8	0	0	0	0	0	0	0	0	0	0	0	0
23	3/24/2017	15:38:56	0	0	0	0	21.8	21.8	21.8	21.8	0	0	0	0	0	0	0	0	0	0	0	0
24	3/24/2017	15:39:26	0	0	0	0	21.8	21.8	21.8	21.8	0	0	0	0	0	0	0	0	0	0	0.1	0.2
25	3/24/2017	15:39:56	0	0	0	0	21.8	21.8	21.8	21.8	0	0	0	0	0	0	0	0	0	0	0.2	0
26	3/24/2017	15:40:26	0	0	0	0	21.8	21.8	21.8	21.8	0	0	0	0	0	0	0	0	0	0	0	0
27	3/24/2017	15:40:56	0	0	0	0	21.8	21.8	21.8	21.8	0	0	0	0	0	0	0	0	0	0	0	0
28	3/24/2017	15:41:26	0	0	0	0	21.8	21.8	21.8	21.8	0	0	0	0	0	0	0	0	0	0	0	0
29	3/24/2017	15:41:56	0	0	0	0	21.8	21.8	21.8	21.8	0	0	0	0	0	0	0	0	0	0	0	0
30	3/24/2017	15:42:26	0	0	0	0	21.7	21.7	21.8	21.8	0	0	0	0	0	0	0	0	0	0	0	0
31	3/24/2017	15:42:56	0	0	0	0	21.7	21.7	21.8	21.7	0	0	0	0	0	0	0	0	0	0	0	0
32	3/24/2017	15:43:26	0	0	0	0	21.7	21.7	21.8	21.8	0	0	0	0	0	0	0	0	0	0	0	0
33	3/24/2017	15:43:56	0	0	0	0	21.7	21.7	21.8	21.8	0	0	0	0	0	0	0	0	0	0	0	0
34	3/24/2017	15:44:26	0	0	0	0	21.7	21.7	21.8	21.8	0	0	0	0	0	0	0	0	0	0	0	0
35	3/24/2017	15:44:56	0	0	0	0	21.7	21.7	21.8	21.7	0	0	0	0	0	0	0	0	0	0	0	0
36	3/24/2017	15:45:26	0	0	0	0	21.7	21.7	21.8	21.7	0	0	0	0	0	0	0	0	0	0	0	0
37	3/24/2017	15:45:56	0	0	0	0	21.7	21.7	21.8	21.7	0	0	0	0	0	0	0	0	0	0	0	0
38	3/24/2017	15:46:26	0	0	0	0	21.7	21.7	21.8	21.7	0	0	0	0	0	0	0	0	0	0	0	0
Peak			0	0	0	0	21.8	21.8	21.8	21.8	0	0	0	0	0	0	0	0	0.1	0.2	0.5	0.2
Min			0	0	0	0	21.7	21.7	21.7	21.7	0	0	0	0	0	0	0	0	0	0	0	0
Average			0	0	0	0	21.8	21.8	21.8	21.8	0	0	0	0	0	0	0	0	0	0	0	0

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TWA/STEL

Index	Date/Time	H2S(ppm) (TWA)	H2S(ppm) (STEL)	CO(ppm) (TWA)	CO(ppm) (STEL)	VOC(ppm) (TWA)	VOC(ppm) (STEL)
1	3/24/2017 15:27:56	0	---	0	---	---	---
2	3/24/2017 15:28:26	0	---	0	---	0	---
3	3/24/2017 15:28:56	0	---	0	---	0	---
4	3/24/2017 15:29:26	0	---	0	---	0	---
5	3/24/2017 15:29:56	0	---	0	---	0	---
6	3/24/2017 15:30:26	0	---	0	---	0	---
7	3/24/2017 15:30:56	0	---	0	---	0	---
8	3/24/2017 15:31:26	0	---	0	---	0	---
9	3/24/2017 15:31:56	0	---	0	---	0	---
10	3/24/2017 15:32:26	0	---	0	---	0	---
11	3/24/2017 15:32:56	0	---	0	---	0	---
12	3/24/2017 15:33:26	0	---	0	---	0	---



13	3/24/2017	15:33:56	0	---	0	---	0	---
14	3/24/2017	15:34:26	0	---	0	---	0	---
15	3/24/2017	15:34:56	0	---	0	---	0	---
16	3/24/2017	15:35:26	0	---	0	---	0	---
17	3/24/2017	15:35:56	0	---	0	---	0	---
18	3/24/2017	15:36:26	0	---	0	---	0	---
19	3/24/2017	15:36:56	0	---	0	---	0	---
20	3/24/2017	15:37:26	0	---	0	---	0	---
21	3/24/2017	15:37:56	0	---	0	---	0	---
22	3/24/2017	15:38:26	0	---	0	---	0	---
23	3/24/2017	15:38:56	0	---	0	---	0	---
24	3/24/2017	15:39:26	0	---	0	---	0	---
25	3/24/2017	15:39:56	0	---	0	---	0	---
26	3/24/2017	15:40:26	0	---	0	---	0	---
27	3/24/2017	15:40:56	0	---	0	---	0	---
28	3/24/2017	15:41:26	0	---	0	---	0	---
29	3/24/2017	15:41:56	0	---	0	---	0	---
30	3/24/2017	15:42:26	0	0	0	0	0	0
31	3/24/2017	15:42:56	0	0	0	0	0	0
32	3/24/2017	15:43:26	0	0	0	0	0	0
33	3/24/2017	15:43:56	0	0	0	0	0	0
34	3/24/2017	15:44:26	0	0	0	0	0	0
35	3/24/2017	15:44:56	0	0	0	0	0	0
36	3/24/2017	15:45:26	0	0	0	0	0	0
37	3/24/2017	15:45:56	0	0	0	0	0	0
38	3/24/2017	15:46:26	0	0	0	0	0	0

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17/03/24 16:10

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Summary

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Unit Name MultiRAE(PGM-6228)  
Unit SN MBB3Z034P9  
Unit Firmware Ver V1.18  
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Running Mode Hygiene Mode  
Datalog Mode Auto  
Diagnostic Mode No  
Stop Reason Power Down  
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Site ID 3  
User ID 1  
-----

Begin 3/24/2017 16:10:16

End 3/24/2017 16:24:31

Sample Period(s) 30  
Number of Records 28  
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Sensor LEL(%LEL) OXY(%) H2S(ppm) CO(ppm) VOC(ppm)  
Sensor SN SC0311019 SC034204C SC03AR0080 SC0306004 SC03A40140P7

Measure	Type	Min	Avg	Max	Real	Min	Avg	Max	Real	Min	Avg	Max	Real	Min	Avg	Max	Real	Min	Avg	Max	Real	
Span		50	18	1	50	10																
Span		2 N/A	N/A	N/A	N/A	1000																
Low	Alarm	10	19.5	10	5	50																
High	Alarm	20	23.5	20	200	100																
Over	Alarm	100	30	100	500	5000																

## Brown's Creek under Lewis Drive

STEL	Alarm	N/A	N/A	15	100	25					
TWA	Alarm	N/A	N/A	10	35	10					
Measurem	Gas(CF)	Methane(1	N/A	N/A	N/A	Isobutylene(1.00)					
Calibration	Time	3/24/2017	15:14	3/24/2017	15:14	3/24/2017	15:17	3/24/2017	15:14	3/24/2017	15:16
Peak		0	21.8	0	0	0.1					
Min		0	21.8	0	0	0					
Average		0	21.8	0	0	0					

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Datalog

Index	Date/Time	LEL(%LEL) (Min)	LEL(%LEL) (Avg)	LEL(%LEL) (Max)	LEL(%LEL) (Real)	OXY(% (Min)	OXY(% (Avg)	OXY(% (Max)	OXY(% (Real)	H2S(ppm) (Min)	H2S(ppm) (Avg)	H2S(ppm) (Max)	H2S(ppm) (Real)	CO(ppm) (Min)	CO(ppm) (Avg)	CO(ppm) (Max)	CO(ppm) (Real)	VOC(ppm) (Min)	VOC(ppm) (Avg)	VOC(ppm) (Max)	VOC(ppm) (Real)	
1	3/24/2017 16:10:46	0	0	0	0	21.8	21.8	21.8	21.8	0	0	0	0	0	0	0	0	0	0	0	0	0
2	3/24/2017 16:11:16	0	0	0	0	21.8	21.8	21.8	21.8	0	0	0	0	0	0	0	0	0	0	0	0	0
3	3/24/2017 16:11:46	0	0	0	0	21.8	21.8	21.8	21.8	0	0	0	0	0	0	0	0	0	0	0	0	0
4	3/24/2017 16:12:16	0	0	0	0	21.8	21.8	21.8	21.8	0	0	0	0	0	0	0	0	0	0	0	0	0
5	3/24/2017 16:12:46	0	0	0	0	21.8	21.8	21.8	21.8	0	0	0	0	0	0	0	0	0	0	0	0	0
6	3/24/2017 16:13:16	0	0	0	0	21.8	21.8	21.8	21.8	0	0	0	0	0	0	0	0	0	0	0	0	0
7	3/24/2017 16:13:46	0	0	0	0	21.8	21.8	21.8	21.8	0	0	0	0	0	0	0	0	0	0	0	0	0
8	3/24/2017 16:14:16	0	0	0	0	21.8	21.8	21.8	21.8	0	0	0	0	0	0	0	0	0	0	0	0	0
9	3/24/2017 16:14:46	0	0	0	0	21.8	21.8	21.8	21.8	0	0	0	0	0	0	0	0	0	0	0	0	0
10	3/24/2017 16:15:16	0	0	0	0	21.8	21.8	21.8	21.8	0	0	0	0	0	0	0	0	0	0	0	0	0
11	3/24/2017 16:15:46	0	0	0	0	21.8	21.8	21.8	21.8	0	0	0	0	0	0	0	0	0	0	0	0	0
12	3/24/2017 16:16:16	0	0	0	0	21.8	21.8	21.8	21.8	0	0	0	0	0	0	0	0	0	0	0	0	0
13	3/24/2017 16:16:46	0	0	0	0	21.8	21.8	21.8	21.8	0	0	0	0	0	0	0	0	0	0	0	0	0
14	3/24/2017 16:17:16	0	0	0	0	21.8	21.8	21.8	21.8	0	0	0	0	0	0	0	0	0	0	0	0	0
15	3/24/2017 16:17:46	0	0	0	0	21.8	21.8	21.8	21.8	0	0	0	0	0	0	0	0	0	0	0	0	0
16	3/24/2017 16:18:16	0	0	0	0	21.8	21.8	21.8	21.8	0	0	0	0	0	0	0	0	0	0	0	0.1	0.1
17	3/24/2017 16:18:46	0	0	0	0	21.8	21.8	21.8	21.8	0	0	0	0	0	0	0	0	0	0	0	0.1	0
18	3/24/2017 16:19:16	0	0	0	0	21.8	21.8	21.8	21.8	0	0	0	0	0	0	0	0	0	0	0	0.1	0
19	3/24/2017 16:19:46	0	0	0	0	21.8	21.8	21.8	21.8	0	0	0	0	0	0	0	0	0	0	0	0	0
20	3/24/2017 16:20:16	0	0	0	0	21.8	21.8	21.8	21.8	0	0	0	0	0	0	0	0	0	0	0	0	0
21	3/24/2017 16:20:46	0	0	0	0	21.8	21.8	21.8	21.8	0	0	0	0	0	0	0	0	0	0	0	0	0
22	3/24/2017 16:21:16	0	0	0	0	21.8	21.8	21.8	21.8	0	0	0	0	0	0	0	0	0	0	0	0	0
23	3/24/2017 16:21:46	0	0	0	0	21.8	21.8	21.8	21.8	0	0	0	0	0	0	0	0	0	0	0	0	0
24	3/24/2017 16:22:16	0	0	0	0	21.8	21.8	21.8	21.8	0	0	0	0	0	0	0	0	0	0	0	0	0
25	3/24/2017 16:22:46	0	0	0	0	21.8	21.8	21.8	21.8	0	0	0	0	0	0	0	0	0	0	0	0	0
26	3/24/2017 16:23:16	0	0	0	0	21.8	21.8	21.8	21.8	0	0	0	0	0	0	0	0	0	0	0	0	0
27	3/24/2017 16:23:46	0	0	0	0	21.8	21.8	21.8	21.8	0	0	0	0	0	0	0	0	0	0	0	0	0
28	3/24/2017 16:24:16	0	0	0	0	21.8	21.8	21.8	21.8	0	0	0	0	0	0	0	0	0	0	0	0	0
Peak		0	0	0	0	21.8	21.8	21.8	21.8	0	0	0	0	0	0	0	0	0	0	0	0.1	0.1
Min		0	0	0	0	21.8	21.8	21.8	21.8	0	0	0	0	0	0	0	0	0	0	0	0	0
Average		0	0	0	0	21.8	21.8	21.8	21.8	0	0	0	0	0	0	0	0	0	0	0	0	0

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TWA/STEL

Index	Date/Time	H2S(ppm) (TWA)	H2S(ppm) (STEL)	CO(ppm) (TWA)	CO(ppm) (STEL)	VOC(ppm) (TWA)	VOC(ppm) (STEL)
1	3/24/2017 16:10:46	0	---	0	---	---	---
2	3/24/2017 16:11:16	0	---	0	---	0	---
3	3/24/2017 16:11:46	0	---	0	---	0	---
4	3/24/2017 16:12:16	0	---	0	---	0	---
5	3/24/2017 16:12:46	0	---	0	---	0	---
6	3/24/2017 16:13:16	0	---	0	---	0	---
7	3/24/2017 16:13:46	0	---	0	---	0	---
8	3/24/2017 16:14:16	0	---	0	---	0	---
9	3/24/2017 16:14:46	0	---	0	---	0	---



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Datalog

Index	Date/Time	LEL(%LEL)				OXY(%)				H2S(ppm)				CO(ppm)				VOC(ppm)				
		(Min)	(Avg)	(Max)	(Real)	(Min)	(Avg)	(Max)	(Real)	(Min)	(Avg)	(Max)	(Real)	(Min)	(Avg)	(Max)	(Real)	(Min)	(Avg)	(Max)	(Real)	
1	3/24/2017 16:31:56	0	0	0	0	21.6	21.8	22	21.6	0	0	0	0	0	0	0	0	0	0	0	0	0
2	3/24/2017 16:32:26	0	0	0	0	21.6	21.7	21.8	21.8	0	0	0	0	0	0	0	0	0	0	0	0	0
3	3/24/2017 16:32:56	0	0	0	0	21.7	21.9	22.1	21.9	0	0	0	0	0	0	0	0	0	0	0	0	0
4	3/24/2017 16:33:26	0	0	0	0	21.8	21.8	21.9	21.8	0	0	0	0	0	0	0	0	0	0	0	0	0
5	3/24/2017 16:33:56	0	0	0	0	21.6	21.6	21.8	21.7	0	0	0	0	0	0	0	0	0	0	0	0	0
6	3/24/2017 16:34:26	0	0	0	0	21.7	21.8	21.9	21.9	0	0	0	0	0	0	0	0	0	0	0	0	0
7	3/24/2017 16:34:56	0	0	0	0	21.4	21.7	21.9	21.5	0	0	0	0	0	0	0	0	0	0	0	0	0
8	3/24/2017 16:35:26	0	0	0	0	21.6	21.7	21.9	21.7	0	0	0	0	0	0	0	0	0	0	0	0	0
9	3/24/2017 16:35:56	0	0	0	0	21.7	21.8	22.1	21.7	0	0	0	0	0	0	0	0	0	0	0	0	0
10	3/24/2017 16:36:26	0	0	0	0	21.6	21.7	21.9	21.9	0	0	0	0	0	0	0	0	0	0	0	0	0
11	3/24/2017 16:36:56	0	0	0	0	21.7	21.9	22.1	21.8	0	0	0	0	0	0	0	0	0	0	0	0	0
12	3/24/2017 16:37:26	0	0	0	0	21.5	21.6	21.8	21.5	0	0	0	0	0	0	0	0	0	0	0	0	0
13	3/24/2017 16:37:56	0	0	0	0	21.5	21.7	21.8	21.8	0	0	0	0	0	0	0	0	0	0	0	0	0
14	3/24/2017 16:38:26	0	0	0	0	21.7	21.7	21.8	21.7	0	0	0	0	0	0	0	0	0	0	0	0	0
15	3/24/2017 16:38:56	0	0	0	0	21.7	21.9	22.1	21.8	0	0	0	0	0	0	0	0	0	0	0	0	0
16	3/24/2017 16:39:26	0	0	0	0	21.6	21.6	21.8	21.6	0	0	0	0	0	0	0	0	0	0	0	0	0
17	3/24/2017 16:39:56	0	0	0	0	21.5	21.7	21.9	21.9	0	0	0	0	0	0	0	0	0	0	0	0	0
18	3/24/2017 16:40:26	0	0	0	0	21.7	21.8	22	22	0	0	0	0	0	0	0	0	0	0	0	0	0
19	3/24/2017 16:40:56	0	0	0	0	22	22	22.1	22	0	0	0	0	0	0	0	0	0	0	0	0	0
20	3/24/2017 16:41:26	0	0	0	0	21.6	21.8	22.1	21.6	0	0	0	0	0	0	0	0	0	0	0	0	0
21	3/24/2017 16:41:56	0	0	0	0	21.6	21.6	21.7	21.6	0	0	0	0	0	0	0	0	0	0	0	0	0
22	3/24/2017 16:42:26	0	0	0	0	21.4	21.5	21.7	21.7	0	0	0	0	0	0	0	0	0	0	0	0	0
23	3/24/2017 16:42:56	0	0	0	0	21.6	21.8	22.1	22.1	0	0	0	0	0	0	0	0	0	0	0	0	0
24	3/24/2017 16:43:26	0	0	0	0	21.8	22	22.2	22.2	0	0	0	0	0	0	0	0	0	0	0	0	0
25	3/24/2017 16:43:56	0	0	0	0	21.8	21.9	22.1	22.1	0	0	0	0	0	0	0	0	0	0	0	0	0
26	3/24/2017 16:44:26	0	0	0	0	21.6	21.8	22.3	21.6	0	0	0	0	0	0	0	0	0	0	0	0	0
27	3/24/2017 16:44:56	0	0	0	0	21.5	21.6	21.7	21.7	0	0	0	0	0	0	0	0	0	0	0	0	0
Peak		0	0	0	0	22	22	22.3	22.2	0	0	0	0	0	0	0	0	0	0	0	0	0
Min		0	0	0	0	21.4	21.5	21.7	21.5	0	0	0	0	0	0	0	0	0	0	0	0	0
Average		0	0	0	0	21.6	21.8	21.9	21.8	0	0	0	0	0	0	0	0	0	0	0	0	0

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TWA/STEL

Index	Date/Time	H2S(ppm)		CO(ppm)		VOC(ppm)	
		(TWA)	(STEL)	(TWA)	(STEL)	(TWA)	(STEL)
1	3/24/2017 16:31:56	0	---	0	---	---	---
2	3/24/2017 16:32:26	0	---	0	---	0	---
3	3/24/2017 16:32:56	0	---	0	---	0	---
4	3/24/2017 16:33:26	0	---	0	---	0	---
5	3/24/2017 16:33:56	0	---	0	---	0	---
6	3/24/2017 16:34:26	0	---	0	---	0	---
7	3/24/2017 16:34:56	0	---	0	---	0	---
8	3/24/2017 16:35:26	0	---	0	---	0	---
9	3/24/2017 16:35:56	0	---	0	---	0	---
10	3/24/2017 16:36:26	0	---	0	---	0	---
11	3/24/2017 16:36:56	0	---	0	---	0	---
12	3/24/2017 16:37:26	0	---	0	---	0	---
13	3/24/2017 16:37:56	0	---	0	---	0	---
14	3/24/2017 16:38:26	0	---	0	---	0	---
15	3/24/2017 16:38:56	0	---	0	---	0	---
16	3/24/2017 16:39:26	0	---	0	---	0	---
17	3/24/2017 16:39:56	0	---	0	---	0	---

18	3/24/2017	16:40:26	0 ---	0 ---	0 ---
19	3/24/2017	16:40:56	0 ---	0 ---	0 ---
20	3/24/2017	16:41:26	0 ---	0 ---	0 ---
21	3/24/2017	16:41:56	0 ---	0 ---	0 ---
22	3/24/2017	16:42:26	0 ---	0 ---	0 ---
23	3/24/2017	16:42:56	0 ---	0 ---	0 ---
24	3/24/2017	16:43:26	0 ---	0 ---	0 ---
25	3/24/2017	16:43:56	0 ---	0 ---	0 ---
26	3/24/2017	16:44:26	0 ---	0 ---	0 ---
27	3/24/2017	16:44:56	0 ---	0 ---	0 ---

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17/03/24 17:17  
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17/03/27 9:12

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Summary

Unit Name MultiRAE(PGM-6228)
Unit SN MBB3Z034P9
Unit Firmware Ver V1.18

Running Mode Hygiene Mode
Datalog Mode Auto
Diagnostic Mode No
Stop Reason Power Down

Site ID 3
User ID 1

Begin 3/27/2017 9:12:38

End 3/27/2017 9:28:37

SW-06

Sample Period(s) 30
Number of Records 31

Table with 22 columns: Sensor, SN, LEL(%LEL), OXY(%), H2S(ppm), CO(ppm), VOC(ppm), Measure Type, Min, Avg, Max, Real, Min, Avg, Max, Real, Min, Avg, Max, Real, Min, Avg, Max, Real. Includes calibration and peak/average data.

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Datalog

Datalog table with 24 columns: Index, Date/Time, LEL(%LEL) (Min, Avg, Max, Real), OXY(%), H2S(ppm), CO(ppm), VOC(ppm). Contains 13 rows of data.

14	3/27/2017	9:19:38	0	0	0	0	21.5	21.5	21.5	21.5	0	0	0	0	0	0	0	0	0	0	0	0
15	3/27/2017	9:20:08	0	0	0	0	21.5	21.5	21.5	21.5	0	0	0	0	0	0	0	0	0	0	0	0
16	3/27/2017	9:20:38	0	0	0	0	21.5	21.5	21.5	21.5	0	0	0	0	0	0	0	0	0	0	0	0
17	3/27/2017	9:21:08	0	0	0	0	21.5	21.5	21.5	21.5	0	0	0	0	0	0	0	0	0	0	0	0
18	3/27/2017	9:21:38	0	0	0	0	21.5	21.5	21.5	21.5	0	0	0	0	0	0	0	0	0	0	0	0
19	3/27/2017	9:22:08	0	0	0	0	21.5	21.5	21.5	21.5	0	0	0	0	0	0	0	0	0	0	0	0
20	3/27/2017	9:22:38	0	0	0	0	21.5	21.5	21.5	21.5	0	0	0	0	0	0	0	0	0	0	0	0
21	3/27/2017	9:23:08	0	0	0	0	21.5	21.5	21.5	21.5	0	0	0	0	0	0	0	0	0	0	0	0
22	3/27/2017	9:23:38	0	0	0	0	21.5	21.5	21.5	21.5	0	0	0	0	0	0	0	0	0	0	0	0
23	3/27/2017	9:24:08	0	0	0	0	21.5	21.5	21.5	21.5	0	0	0	0	0	0	0	0	0	0	0	0
24	3/27/2017	9:24:38	0	0	0	0	21.5	21.5	21.5	21.5	0	0	0	0	0	0	0	0	0	0	0	0
25	3/27/2017	9:25:08	0	0	0	0	21.5	21.5	21.5	21.5	0	0	0	0	0	0	0	0	0	0	0	0
26	3/27/2017	9:25:38	0	0	0	0	21.5	21.5	21.5	21.5	0	0	0	0	0	0	0	0	0	0	0	0
27	3/27/2017	9:26:08	0	0	0	0	21.5	21.5	21.5	21.5	0	0	0	0	0	0	0	0	0	0	0	0
28	3/27/2017	9:26:38	0	0	0	0	21.5	21.5	21.5	21.5	0	0	0	0	0	0	0	0	0	0	0	0
29	3/27/2017	9:27:08	0	0	0	0	21.5	21.5	21.5	21.5	0	0	0	0	0	0	0	0	0	0	0	0
30	3/27/2017	9:27:38	0	0	0	0	21.5	21.5	21.5	21.5	0	0	0	0	0	0	0	0	0	0	0	0
31	3/27/2017	9:28:08	0	0	0	0	21.5	21.5	21.5	21.5	0	0	0	0	0	0	0	0	0	0	0	0
Peak			0	0	0	0	21.5	21.5	21.5	21.5	0	0	0	0	0	0	0	0	0	0	0	0
Min			0	0	0	0	21.5	21.5	21.5	21.5	0	0	0	0	0	0	0	0	0	0	0	0
Average			0	0	0	0	21.5	21.5	21.5	21.5	0	0	0	0	0	0	0	0	0	0	0	0

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TWA/STEL

Index	Date/Time	H2S(ppm) (TWA)	H2S(ppm) (STEL)	CO(ppm) (TWA)	CO(ppm) (STEL)	VOC(ppm) (TWA)	VOC(ppm) (STEL)
1	3/27/2017 9:13:08	0	---	0	---	---	---
2	3/27/2017 9:13:38	0	---	0	---	0	---
3	3/27/2017 9:14:08	0	---	0	---	0	---
4	3/27/2017 9:14:38	0	---	0	---	0	---
5	3/27/2017 9:15:08	0	---	0	---	0	---
6	3/27/2017 9:15:38	0	---	0	---	0	---
7	3/27/2017 9:16:08	0	---	0	---	0	---
8	3/27/2017 9:16:38	0	---	0	---	0	---
9	3/27/2017 9:17:08	0	---	0	---	0	---
10	3/27/2017 9:17:38	0	---	0	---	0	---
11	3/27/2017 9:18:08	0	---	0	---	0	---
12	3/27/2017 9:18:38	0	---	0	---	0	---
13	3/27/2017 9:19:08	0	---	0	---	0	---
14	3/27/2017 9:19:38	0	---	0	---	0	---
15	3/27/2017 9:20:08	0	---	0	---	0	---
16	3/27/2017 9:20:38	0	---	0	---	0	---
17	3/27/2017 9:21:08	0	---	0	---	0	---
18	3/27/2017 9:21:38	0	---	0	---	0	---
19	3/27/2017 9:22:08	0	---	0	---	0	---
20	3/27/2017 9:22:38	0	---	0	---	0	---
21	3/27/2017 9:23:08	0	---	0	---	0	---
22	3/27/2017 9:23:38	0	---	0	---	0	---
23	3/27/2017 9:24:08	0	---	0	---	0	---
24	3/27/2017 9:24:38	0	---	0	---	0	---
25	3/27/2017 9:25:08	0	---	0	---	0	---
26	3/27/2017 9:25:38	0	---	0	---	0	---
27	3/27/2017 9:26:08	0	---	0	---	0	---
28	3/27/2017 9:26:38	0	---	0	---	0	---
29	3/27/2017 9:27:08	0	---	0	---	0	---
30	3/27/2017 9:27:38	0	0	0	0	0	---





13	3/27/2017	9:39:39	0	0	0	0	21.4	21.4	21.4	21.4	0	0	0	0	0	0	0	0	0	0	0	0
14	3/27/2017	9:40:09	0	0	0	0	21.4	21.4	21.4	21.4	0	0	0	0	0	0	0	0	0	0	0	0
15	3/27/2017	9:40:39	0	0	0	0	21.4	21.4	21.4	21.4	0	0	0	0	0	0	0	0	0	0	0	0
16	3/27/2017	9:41:09	0	0	0	0	21.4	21.4	21.4	21.4	0	0	0	0	0	0	0	0	0	0	0	0
17	3/27/2017	9:41:39	0	0	0	0	21.4	21.4	21.4	21.4	0	0	0	0	0	0	0	0	0	0	0	0
18	3/27/2017	9:42:09	0	0	0	0	21.4	21.4	21.4	21.4	0	0	0	0	0	0	0	0	0	0	0	0
19	3/27/2017	9:42:39	0	0	0	0	21.4	21.4	21.4	21.4	0	0	0	0	0	0	0	0	0	0	0	0
20	3/27/2017	9:43:09	0	0	0	0	21.4	21.4	21.4	21.4	0	0	0	0	0	0	0	0	0	0	0	0
21	3/27/2017	9:43:39	0	0	0	0	21.4	21.4	21.4	21.4	0	0	0	0	0	0	0	0	0	0	0	0
22	3/27/2017	9:44:09	0	0	0	0	21.4	21.4	21.4	21.4	0	0	0	0	0	0	0	0	0	0	0	0
23	3/27/2017	9:44:39	0	0	0	0	21.4	21.4	21.4	21.4	0	0	0	0	0	0	0	0	0	0	0	0
24	3/27/2017	9:45:09	0	0	0	0	21.4	21.4	21.4	21.4	0	0	0	0	0	0	0	0	0	0	0	0
25	3/27/2017	9:45:39	0	0	0	0	21.4	21.4	21.4	21.4	0	0	0	0	0	0	0	0	0	0	0	0
26	3/27/2017	9:46:09	0	0	0	0	21.3	21.3	21.4	21.3	0	0	0	0	0	0	0	0	0	0	0	0
27	3/27/2017	9:46:39	0	0	0	0	21.3	21.3	21.4	21.3	0	0	0	0	0	0	0	0	0	0	0	0
28	3/27/2017	9:47:09	0	0	0	0	21.3	21.3	21.4	21.4	0	0	0	0	0	0	0	0	0	0	0	0
29	3/27/2017	9:47:39	0	0	0	0	21.3	21.3	21.4	21.3	0	0	0	0	0	0	0	0	0	0	0	0
Peak			0	0	0	0	21.4	21.4	21.5	21.4	0	0	0	0	0	0	0	0	0	0	0	0
Min			0	0	0	0	21.3	21.3	21.4	21.3	0	0	0	0	0	0	0	0	0	0	0	0
Average			0	0	0	0	21.4	21.4	21.4	21.4	0	0	0	0	0	0	0	0	0	0	0	0

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TWA/STEL

Index	Date/Time	H2S(ppm) (TWA)	H2S(ppm) (STEL)	CO(ppm) (TWA)	CO(ppm) (STEL)	VOC(ppm) (TWA)	VOC(ppm) (STEL)
1	3/27/2017 9:33:39	0	---	0	---	---	---
2	3/27/2017 9:34:09	0	---	0	---	0	---
3	3/27/2017 9:34:39	0	---	0	---	0	---
4	3/27/2017 9:35:09	0	---	0	---	0	---
5	3/27/2017 9:35:39	0	---	0	---	0	---
6	3/27/2017 9:36:09	0	---	0	---	0	---
7	3/27/2017 9:36:39	0	---	0	---	0	---
8	3/27/2017 9:37:09	0	---	0	---	0	---
9	3/27/2017 9:37:39	0	---	0	---	0	---
10	3/27/2017 9:38:09	0	---	0	---	0	---
11	3/27/2017 9:38:39	0	---	0	---	0	---
12	3/27/2017 9:39:09	0	---	0	---	0	---
13	3/27/2017 9:39:39	0	---	0	---	0	---
14	3/27/2017 9:40:09	0	---	0	---	0	---
15	3/27/2017 9:40:39	0	---	0	---	0	---
16	3/27/2017 9:41:09	0	---	0	---	0	---
17	3/27/2017 9:41:39	0	---	0	---	0	---
18	3/27/2017 9:42:09	0	---	0	---	0	---
19	3/27/2017 9:42:39	0	---	0	---	0	---
20	3/27/2017 9:43:09	0	---	0	---	0	---
21	3/27/2017 9:43:39	0	---	0	---	0	---
22	3/27/2017 9:44:09	0	---	0	---	0	---
23	3/27/2017 9:44:39	0	---	0	---	0	---
24	3/27/2017 9:45:09	0	---	0	---	0	---
25	3/27/2017 9:45:39	0	---	0	---	0	---
26	3/27/2017 9:46:09	0	---	0	---	0	---
27	3/27/2017 9:46:39	0	---	0	---	0	---
28	3/27/2017 9:47:09	0	---	0	---	0	---
29	3/27/2017 9:47:39	0	---	0	---	0	---



16	3/27/2017	10:12:16	0	0	0	0	21.4	21.4	21.4	21.4	0	0	0	0	0	0	0	0	0	0	0.1	0
17	3/27/2017	10:12:46	0	0	0	0	21.4	21.4	21.4	21.4	0	0	0	0	0	0	0	0	0	0	0.2	0.2
18	3/27/2017	10:13:16	0	0	0	0	21.4	21.4	21.4	21.4	0	0	0	0	0	0	0	0	0	0.2	0.4	0
19	3/27/2017	10:13:46	0	0	0	0	21.4	21.4	21.4	21.4	0	0	0	0	0	0	0	0	0	0	0.2	0
20	3/27/2017	10:14:16	0	0	0	0	21.4	21.4	21.4	21.4	0	0	0	0	0	0	0	0	0	0.1	0.2	0.2
21	3/27/2017	10:14:46	0	0	0	0	21.4	21.4	21.4	21.4	0	0	0	0	0	0	0	0	0	0.3	0.5	0.1
22	3/27/2017	10:15:16	0	0	0	0	21.4	21.4	21.4	21.4	0	0	0	0	0	0	0	0	0	0.1	0.2	0.1
23	3/27/2017	10:15:46	0	0	0	0	21.4	21.4	21.4	21.4	0	0	0	0	0	0	0	0	0	0.2	0.4	0.2
24	3/27/2017	10:16:16	0	0	0	0	21.4	21.4	21.4	21.4	0	0	0	0	0	0	0	0	0.1	0.2	0.3	0.3
25	3/27/2017	10:16:46	0	0	0	0	21.4	21.4	21.4	21.4	0	0	0	0	0	0	0	0	0.1	0.2	0.4	0.4
26	3/27/2017	10:17:16	0	0	0	0	21.4	21.4	21.4	21.4	0	0	0	0	0	0	0	0	0.1	0.3	0.5	0.1
27	3/27/2017	10:17:46	0	0	0	0	21.4	21.4	21.4	21.4	0	0	0	0	0	0	0	0	0	0	0.1	0
28	3/27/2017	10:18:16	0	0	0	0	21.4	21.4	21.4	21.4	0	0	0	0	0	0	0	0	0	0	0.2	0.2
29	3/27/2017	10:18:46	0	0	0	0	21.4	21.4	21.4	21.4	0	0	0	0	0	0	0	0	0.1	0.2	0.5	0.2
30	3/27/2017	10:19:16	0	0	0	0	21.4	21.4	21.4	21.4	0	0	0	0	0	0	0	0	0	0.1	0.4	0
31	3/27/2017	10:19:46	0	0	0	0	21.4	21.4	21.4	21.4	0	0	0	0	0	0	0	0	0	0	0	0
32	3/27/2017	10:20:16	0	0	0	0	21.4	21.4	21.4	21.4	0	0	0	0	0	0	0	0	0	0	0	0
33	3/27/2017	10:20:46	0	0	0	0	21.4	21.4	21.4	21.4	0	0	0	0	0	0	0	0	0	0.1	0.2	0.1
34	3/27/2017	10:21:16	0	0	0	0	21.4	21.4	21.4	21.4	0	0	0	0	0	0	0	0	0.1	0.2	0.4	0.2
35	3/27/2017	10:21:46	0	0	0	0	21.4	21.4	21.4	21.4	0	0	0	0	0	0	0	0	0	0.2	0.4	0.3
36	3/27/2017	10:22:16	0	0	0	0	21.4	21.4	21.4	21.4	0	0	0	0	0	0	0	0	0.2	0.3	0.5	0.3
37	3/27/2017	10:22:46	0	0	0	0	21.4	21.4	21.4	21.4	0	0	0	0	0	0	0	0	0.1	0.2	0.5	0.5
Peak			0	0	0	0	21.5	21.5	21.5	21.5	0	0	0	0	0	0	0	0	0.2	0.3	0.7	0.5
Min			0	0	0	0	21.4	21.4	21.4	21.4	0	0	0	0	0	0	0	0	0	0	0	0
Average			0	0	0	0	21.4	21.4	21.4	21.4	0	0	0	0	0	0	0	0	0	0.1	0.3	0.1

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TWA/STEL

Index	Date/Time	H2S(ppm) (TWA)	H2S(ppm) (STEL)	CO(ppm) (TWA)	CO(ppm) (STEL)	VOC(ppm) (TWA)	VOC(ppm) (STEL)
1	3/27/2017 10:04:46	0	---	0	---	---	---
2	3/27/2017 10:05:16	0	---	0	---	0	---
3	3/27/2017 10:05:46	0	---	0	---	0	---
4	3/27/2017 10:06:16	0	---	0	---	0	---
5	3/27/2017 10:06:46	0	---	0	---	0	---
6	3/27/2017 10:07:16	0	---	0	---	0	---
7	3/27/2017 10:07:46	0	---	0	---	0	---
8	3/27/2017 10:08:16	0	---	0	---	0	---
9	3/27/2017 10:08:46	0	---	0	---	0	---
10	3/27/2017 10:09:16	0	---	0	---	0	---
11	3/27/2017 10:09:46	0	---	0	---	0	---
12	3/27/2017 10:10:16	0	---	0	---	0	---
13	3/27/2017 10:10:46	0	---	0	---	0	---
14	3/27/2017 10:11:16	0	---	0	---	0	---
15	3/27/2017 10:11:46	0	---	0	---	0	---
16	3/27/2017 10:12:16	0	---	0	---	0	---
17	3/27/2017 10:12:46	0	---	0	---	0	---
18	3/27/2017 10:13:16	0	---	0	---	0	---
19	3/27/2017 10:13:46	0	---	0	---	0	---
20	3/27/2017 10:14:16	0	---	0	---	0	---
21	3/27/2017 10:14:46	0	---	0	---	0	---
22	3/27/2017 10:15:16	0	---	0	---	0	---
23	3/27/2017 10:15:46	0	---	0	---	0	---
24	3/27/2017 10:16:16	0	---	0	---	0	---
25	3/27/2017 10:16:46	0	---	0	---	0	---
26	3/27/2017 10:17:16	0	---	0	---	0	---

27	3/27/2017	10:17:46	0	---	0	---	0	---
28	3/27/2017	10:18:16	0	---	0	---	0	---
29	3/27/2017	10:18:46	0	---	0	---	0	---
30	3/27/2017	10:19:16	0	0	0	0	0	---
31	3/27/2017	10:19:46	0	0	0	0	0	0.1
32	3/27/2017	10:20:16	0	0	0	0	0	0.1
33	3/27/2017	10:20:46	0	0	0	0	0	0.1
34	3/27/2017	10:21:16	0	0	0	0	0	0.1
35	3/27/2017	10:21:46	0	0	0	0	0	0.1
36	3/27/2017	10:22:16	0	0	0	0	0	0.1
37	3/27/2017	10:22:46	0	0	0	0	0	0.1

17/03/27 10:25

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Summary

Unit Name MultiRAE(PGM-6228)  
 Unit SN MBB3Z034P9  
 Unit Firmware Ver V1.18

Running Mode Hygiene Mode  
 Datalog Mode Auto  
 Diagnostic Mode No  
 Stop Reason Power Down

Site ID 3  
 User ID 1

Begin 3/27/2017 10:25:32  
 End 3/27/2017 10:40:00  
 Sample Period(s) 30  
 Number of Records 28

**SW-12**

Sensor	LEL(%LEL)	OXY(%)	H2S(ppm)	CO(ppm)	VOC(ppm)
Sensor SN	SC0311019! SC0342040 SC03AR008( SC0306004 SC03A40140P7				
Measure Type	Min	Avg	Max	Real	Min Avg Max Real Min Avg Max Real Min Avg Max Real Min Avg Max Real
Span	50	18	1	50	10
Span	2 N/A	N/A	N/A	N/A	1000
Low Alarm	10	19.5	10	5	50
High Alarm	20	23.5	20	200	100
Over Alarm	100	30	100	500	5000
STEL Alarm	N/A	N/A	15	100	25
TWA Alarm	N/A	N/A	10	35	10
Measurment Gas(CF)	Methane(1. N/A	N/A	N/A	Isobutylene(1.00)	
Calibration Time	3/24/2017	15:14	3/24/2017	15:14	3/24/2017 15:17 3/24/2017 15:14 3/24/2017 15:16
Peak	0	21.5	0	0	0.2
Min	0	21.4	0	0	0
Average	0	21.5	0	0	0.1

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Datalog

Index	Date/Time	LEL(%LEL) (Min)	LEL(%LEL) (Avg)	LEL(%LEL) (Max)	LEL(%LEL) (Real)	OXY(%) (Min)	OXY(%) (Avg)	OXY(%) (Max)	OXY(%) (Real)	H2S(ppm) (Min)	H2S(ppm) (Avg)	H2S(ppm) (Max)	H2S(ppm) (Real)	CO(ppm) (Min)	CO(ppm) (Avg)	CO(ppm) (Max)	CO(ppm) (Real)	VOC(ppm) (Min)	VOC(ppm) (Avg)	VOC(ppm) (Max)	VOC(ppm) (Real)	
1	3/27/2017 10:26:02	0	0	0	0	21.4	21.4	21.4	21.4	0	0	0	0	0	0	0	0	0	---	---	---	---
2	3/27/2017 10:26:32	0	0	0	0	21.4	21.4	21.4	21.4	0	0	0	0	0	0	0	0	0	0.1	0.1	0.2	0.1

3	3/27/2017	10:27:02	0	0	0	0	21.4	21.4	21.4	21.4	0	0	0	0	0	0	0	0	0.1	0.1	0.1	0.1
4	3/27/2017	10:27:32	0	0	0	0	21.4	21.4	21.4	21.4	0	0	0	0	0	0	0	0	0.1	0.1	0.2	0.1
5	3/27/2017	10:28:02	0	0	0	0	21.4	21.4	21.4	21.4	0	0	0	0	0	0	0	0	0.1	0.1	0.2	0.1
6	3/27/2017	10:28:32	0	0	0	0	21.4	21.4	21.4	21.4	0	0	0	0	0	0	0	0	0	0	0.1	0.1
7	3/27/2017	10:29:02	0	0	0	0	21.4	21.4	21.4	21.4	0	0	0	0	0	0	0	0	0	0.1	0.1	0.1
8	3/27/2017	10:29:32	0	0	0	0	21.4	21.4	21.4	21.4	0	0	0	0	0	0	0	0	0	0.1	0.1	0.1
9	3/27/2017	10:30:02	0	0	0	0	21.4	21.4	21.4	21.4	0	0	0	0	0	0	0	0	0	0.1	0.1	0.1
10	3/27/2017	10:30:32	0	0	0	0	21.4	21.4	21.4	21.4	0	0	0	0	0	0	0	0	0	0	0.1	0
11	3/27/2017	10:31:02	0	0	0	0	21.4	21.4	21.4	21.4	0	0	0	0	0	0	0	0	0	0.1	0.1	0.1
12	3/27/2017	10:31:32	0	0	0	0	21.4	21.4	21.4	21.4	0	0	0	0	0	0	0	0	0	0.1	0.1	0
13	3/27/2017	10:32:02	0	0	0	0	21.4	21.4	21.4	21.4	0	0	0	0	0	0	0	0	0	0	0.1	0.1
14	3/27/2017	10:32:32	0	0	0	0	21.4	21.4	21.5	21.5	0	0	0	0	0	0	0	0	0	0.1	0.2	0.2
15	3/27/2017	10:33:02	0	0	0	0	21.4	21.4	21.5	21.5	0	0	0	0	0	0	0	0	0.1	0.2	0.2	0.1
16	3/27/2017	10:33:32	0	0	0	0	21.5	21.5	21.5	21.5	0	0	0	0	0	0	0	0	0.1	0.1	0.2	0.1
17	3/27/2017	10:34:02	0	0	0	0	21.5	21.5	21.5	21.5	0	0	0	0	0	0	0	0	0.1	0.2	0.2	0.1
18	3/27/2017	10:34:32	0	0	0	0	21.5	21.5	21.5	21.5	0	0	0	0	0	0	0	0	0.1	0.1	0.2	0.1
19	3/27/2017	10:35:02	0	0	0	0	21.5	21.5	21.5	21.5	0	0	0	0	0	0	0	0	0.1	0.1	0.1	0.1
20	3/27/2017	10:35:32	0	0	0	0	21.5	21.5	21.5	21.5	0	0	0	0	0	0	0	0	0.1	0.1	0.2	0.2
21	3/27/2017	10:36:02	0	0	0	0	21.5	21.5	21.5	21.5	0	0	0	0	0	0	0	0	0.1	0.2	0.2	0.1
22	3/27/2017	10:36:32	0	0	0	0	21.5	21.5	21.5	21.5	0	0	0	0	0	0	0	0	0.1	0.1	0.1	0.1
23	3/27/2017	10:37:02	0	0	0	0	21.5	21.5	21.5	21.5	0	0	0	0	0	0	0	0	0.1	0.1	0.1	0.1
24	3/27/2017	10:37:32	0	0	0	0	21.5	21.5	21.5	21.5	0	0	0	0	0	0	0	0	0.1	0.1	0.2	0.1
25	3/27/2017	10:38:02	0	0	0	0	21.5	21.5	21.5	21.5	0	0	0	0	0	0	0	0	0.1	0.1	0.2	0.1
26	3/27/2017	10:38:32	0	0	0	0	21.5	21.5	21.5	21.5	0	0	0	0	0	0	0	0	0.1	0.1	0.2	0.1
27	3/27/2017	10:39:02	0	0	0	0	21.5	21.5	21.5	21.5	0	0	0	0	0	0	0	0	0	0.1	0.2	0
28	3/27/2017	10:39:32	0	0	0	0	21.5	21.5	21.5	21.5	0	0	0	0	0	0	0	0	0	0.1	0.1	0.1
Peak			0	0	0	0	21.5	21.5	21.5	21.5	0	0	0	0	0	0	0	0	0.1	0.2	0.2	0.2
Min			0	0	0	0	21.4	21.4	21.4	21.4	0	0	0	0	0	0	0	0	0	0	0.1	0
Average			0	0	0	0	21.4	21.4	21.5	21.5	0	0	0	0	0	0	0	0	0.1	0.1	0.2	0.1

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TWA/STEL

Index	Date/Time	H2S(ppm) (TWA)	H2S(ppm) (STEL)	CO(ppm) (TWA)	CO(ppm) (STEL)	VOC(ppm) (TWA)	VOC(ppm) (STEL)
1	3/27/2017 10:26:02	0	---	0	---	---	---
2	3/27/2017 10:26:32	0	---	0	---	0	---
3	3/27/2017 10:27:02	0	---	0	---	0	---
4	3/27/2017 10:27:32	0	---	0	---	0	---
5	3/27/2017 10:28:02	0	---	0	---	0	---
6	3/27/2017 10:28:32	0	---	0	---	0	---
7	3/27/2017 10:29:02	0	---	0	---	0	---
8	3/27/2017 10:29:32	0	---	0	---	0	---
9	3/27/2017 10:30:02	0	---	0	---	0	---
10	3/27/2017 10:30:32	0	---	0	---	0	---
11	3/27/2017 10:31:02	0	---	0	---	0	---
12	3/27/2017 10:31:32	0	---	0	---	0	---
13	3/27/2017 10:32:02	0	---	0	---	0	---
14	3/27/2017 10:32:32	0	---	0	---	0	---
15	3/27/2017 10:33:02	0	---	0	---	0	---
16	3/27/2017 10:33:32	0	---	0	---	0	---
17	3/27/2017 10:34:02	0	---	0	---	0	---
18	3/27/2017 10:34:32	0	---	0	---	0	---
19	3/27/2017 10:35:02	0	---	0	---	0	---
20	3/27/2017 10:35:32	0	---	0	---	0	---
21	3/27/2017 10:36:02	0	---	0	---	0	---
22	3/27/2017 10:36:32	0	---	0	---	0	---

23	3/27/2017	10:37:02	0 ---	0 ---	0 ---
24	3/27/2017	10:37:32	0 ---	0 ---	0 ---
25	3/27/2017	10:38:02	0 ---	0 ---	0 ---
26	3/27/2017	10:38:32	0 ---	0 ---	0 ---
27	3/27/2017	10:39:02	0 ---	0 ---	0 ---
28	3/27/2017	10:39:32	0 ---	0 ---	0 ---

17/03/27 11:12

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Summary

Unit Name MultiRAE(PGM-6228)  
 Unit SN MBB3Z034P9  
 Unit Firmware Ver V1.18

Running Mode Hygiene Mode  
 Datalog Mode Auto  
 Diagnostic Mode No  
 Stop Reason Power Down

Site ID 3  
 User ID 1

Begin 3/27/2017 11:12:30

End 3/27/2017 11:26:00

Sample Period(s) 30  
 Number of Records 27

### Vertical Sparge Cluster at Cupboard Creek

Sensor	LEL(%LEL)	OXY(%)	H2S(ppm)	CO(ppm)	VOC(ppm)																
Sensor SN	SC0311019!SC0342040 SC03AR008( SC0306004 SC03A40140P7																				
Measure Type	Min	Avg	Max	Real	Min	Avg	Max	Real	Min	Avg	Max	Real	Min	Avg	Max	Real	Min	Avg	Max	Real	
Span	50	18	1	50	10																
Span	2 N/A	N/A	N/A	N/A	1000																
Low Alarm	10	19.5	10	5	50																
High Alarm	20	23.5	20	200	100																
Over Alarm	100	30	100	500	5000																
STEL Alarm	N/A	N/A	15	100	25																
TWA Alarm	N/A	N/A	10	35	10																
Measurem Gas(CF)	Methane(1. N/A		N/A	N/A	Isobutylene(1.00)																
Calibration Time	3/24/2017	15:14	3/24/2017	15:14	3/24/2017	15:17	3/24/2017	15:14	3/24/2017	15:16											
Peak	0	21.6	0	0	1																
Min	0	21.6	0	0	0																
Average	0	21.6	0	0	0.2																

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Datalog

Index	Date/Time	LEL(%LEL) (Min)	LEL(%LEL) (Avg)	LEL(%LEL) (Max)	LEL(%LEL) (Real)	OXY(%) (Min)	OXY(%) (Avg)	OXY(%) (Max)	OXY(%) (Real)	H2S(ppm) (Min)	H2S(ppm) (Avg)	H2S(ppm) (Max)	H2S(ppm) (Real)	CO(ppm) (Min)	CO(ppm) (Avg)	CO(ppm) (Max)	CO(ppm) (Real)	VOC(ppm) (Min)	VOC(ppm) (Avg)	VOC(ppm) (Max)	VOC(ppm) (Real)	
1	3/27/2017 11:13:00	0	0	0	0	21.6	21.6	21.6	21.6	0	0	0	0	0	0	0	0	0	0	0	0	0
2	3/27/2017 11:13:30	0	0	0	0	21.6	21.6	21.6	21.6	0	0	0	0	0	0	0	0	0	0	0.4	1	0
3	3/27/2017 11:14:00	0	0	0	0	21.6	21.6	21.6	21.6	0	0	0	0	0	0	0	0	0	0	0	0	0
4	3/27/2017 11:14:30	0	0	0	0	21.6	21.6	21.6	21.6	0	0	0	0	0	0	0	0	0	0	0.1	0.4	0.4
5	3/27/2017 11:15:00	0	0	0	0	21.6	21.6	21.6	21.6	0	0	0	0	0	0	0	0	0	0.1	0.4	1	1
6	3/27/2017 11:15:30	0	0	0	0	21.6	21.6	21.6	21.6	0	0	0	0	0	0	0	0	0	0	0.3	1.1	0
7	3/27/2017 11:16:00	0	0	0	0	21.6	21.6	21.6	21.6	0	0	0	0	0	0	0	0	0	0	0.5	1.5	0.1

8	3/27/2017	11:16:30	0	0	0	0	21.6	21.6	21.6	21.6	0	0	0	0	0	0	0	0	0	0.1	0.2	0
9	3/27/2017	11:17:00	0	0	0	0	21.6	21.6	21.6	21.6	0	0	0	0	0	0	0	0	0	0	0	0
10	3/27/2017	11:17:30	0	0	0	0	21.6	21.6	21.6	21.6	0	0	0	0	0	0	0	0	0	0	0	0
11	3/27/2017	11:18:00	0	0	0	0	21.6	21.6	21.6	21.6	0	0	0	0	0	0	0	0	0	0	0	0
12	3/27/2017	11:18:30	0	0	0	0	21.6	21.6	21.6	21.6	0	0	0	0	0	0	0	0	0	0	0.2	0
13	3/27/2017	11:19:00	0	0	0	0	21.6	21.6	21.6	21.6	0	0	0	0	0	0	0	0	0.1	0.7	1.5	0.5
14	3/27/2017	11:19:30	0	0	0	0	21.6	21.6	21.6	21.6	0	0	0	0	0	0	0	0	0.1	0.3	1	1
15	3/27/2017	11:20:00	0	0	0	0	21.6	21.6	21.6	21.6	0	0	0	0	0	0	0	0	0.7	1.2	1.7	0.7
16	3/27/2017	11:20:30	0	0	0	0	21.6	21.6	21.6	21.6	0	0	0	0	0	0	0	0	0.1	0.3	0.7	0.1
17	3/27/2017	11:21:00	0	0	0	0	21.6	21.6	21.6	21.6	0	0	0	0	0	0	0	0	0	0	0.1	0
18	3/27/2017	11:21:30	0	0	0	0	21.6	21.6	21.6	21.6	0	0	0	0	0	0	0	0	0	0	0	0
19	3/27/2017	11:22:00	0	0	0	0	21.6	21.6	21.6	21.6	0	0	0	0	0	0	0	0	0	0	0	0
20	3/27/2017	11:22:30	0	0	0	0	21.6	21.6	21.6	21.6	0	0	0	0	0	0	0	0	0	0	0	0
21	3/27/2017	11:23:00	0	0	0	0	21.6	21.6	21.6	21.6	0	0	0	0	0	0	0	0	0	0	0	0
22	3/27/2017	11:23:30	0	0	0	0	21.6	21.6	21.6	21.6	0	0	0	0	0	0	0	0	0.1	0.5	0.9	0.4
23	3/27/2017	11:24:00	0	0	0	0	21.6	21.6	21.6	21.6	0	0	0	0	0	0	0	0	0.1	0.5	1.7	0.1
24	3/27/2017	11:24:30	0	0	0	0	21.6	21.6	21.6	21.6	0	0	0	0	0	0	0	0	0	0	0.2	0
25	3/27/2017	11:25:00	0	0	0	0	21.6	21.6	21.6	21.6	0	0	0	0	0	0	0	0	0	0	0	0
26	3/27/2017	11:25:30	0	0	0	0	21.6	21.6	21.6	21.6	0	0	0	0	0	0	0	0	0	0	0.1	0.1
27	3/27/2017	11:26:00	0	0	0	0	21.6	21.6	21.6	21.6	0	0	0	0	0	0	0	0	0.1	0.7	2.4	0.2
Peak			0	0	0	0	21.6	21.6	21.6	21.6	0	0	0	0	0	0	0	0	0.7	1.2	2.4	1
Min			0	0	0	0	21.6	21.6	21.6	21.6	0	0	0	0	0	0	0	0	0	0	0	0
Average			0	0	0	0	21.6	21.6	21.6	21.6	0	0	0	0	0	0	0	0	0.1	0.2	0.6	0.2

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TWA/STEL

Index	Date/Time	H2S(ppm) (TWA)	H2S(ppm) (STEL)	CO(ppm) (TWA)	CO(ppm) (STEL)	VOC(ppm) (TWA)	VOC(ppm) (STEL)
1	3/27/2017 11:13:00	0	---	0	---	---	---
2	3/27/2017 11:13:30	0	---	0	---	0	---
3	3/27/2017 11:14:00	0	---	0	---	0	---
4	3/27/2017 11:14:30	0	---	0	---	0	---
5	3/27/2017 11:15:00	0	---	0	---	0	---
6	3/27/2017 11:15:30	0	---	0	---	0	---
7	3/27/2017 11:16:00	0	---	0	---	0	---
8	3/27/2017 11:16:30	0	---	0	---	0	---
9	3/27/2017 11:17:00	0	---	0	---	0	---
10	3/27/2017 11:17:30	0	---	0	---	0	---
11	3/27/2017 11:18:00	0	---	0	---	0	---
12	3/27/2017 11:18:30	0	---	0	---	0	---
13	3/27/2017 11:19:00	0	---	0	---	0	---
14	3/27/2017 11:19:30	0	---	0	---	0	---
15	3/27/2017 11:20:00	0	---	0	---	0	---
16	3/27/2017 11:20:30	0	---	0	---	0	---
17	3/27/2017 11:21:00	0	---	0	---	0	---
18	3/27/2017 11:21:30	0	---	0	---	0	---
19	3/27/2017 11:22:00	0	---	0	---	0	---
20	3/27/2017 11:22:30	0	---	0	---	0	---
21	3/27/2017 11:23:00	0	---	0	---	0	---
22	3/27/2017 11:23:30	0	---	0	---	0	---
23	3/27/2017 11:24:00	0	---	0	---	0	---
24	3/27/2017 11:24:30	0	---	0	---	0	---
25	3/27/2017 11:25:00	0	---	0	---	0	---
26	3/27/2017 11:25:30	0	---	0	---	0	---
27	3/27/2017 11:26:00	0	---	0	---	0	---

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15	3/27/2017	12:13:06	0	0	0	0	21.5	21.5	21.6	21.5	0	0	0	0	0	0	0	0	0	0	0	0
16	3/27/2017	12:13:36	0	0	0	0	21.5	21.5	21.6	21.5	0	0	0	0	0	0	0	0	0	0	0	0
17	3/27/2017	12:14:06	0	0	0	0	21.5	21.5	21.6	21.5	0	0	0	0	0	0	0	0	0	0	0	0
18	3/27/2017	12:14:36	0	0	0	0	21.5	21.5	21.5	21.5	0	0	0	0	0	0	0	0	0	0	0	0
19	3/27/2017	12:15:06	0	0	0	0	21.5	21.5	21.5	21.5	0	0	0	0	0	0	0	0	0	0	0	0
20	3/27/2017	12:15:36	0	0	0	0	21.5	21.5	21.5	21.5	0	0	0	0	0	0	0	0	0	0	0	0
21	3/27/2017	12:16:06	0	0	0	0	21.5	21.5	21.5	21.5	0	0	0	0	0	0	0	0	0	0	0	0
22	3/27/2017	12:16:36	0	0	0	0	21.5	21.5	21.5	21.5	0	0	0	0	0	0	0	0	0	0	0	0
23	3/27/2017	12:17:06	0	0	0	0	21.5	21.5	21.5	21.5	0	0	0	0	0	0	0	0	0	0	0	0
24	3/27/2017	12:17:36	0	0	0	0	21.5	21.5	21.5	21.5	0	0	0	0	0	0	0	0	0	0	0	0
25	3/27/2017	12:18:06	0	0	0	0	21.5	21.5	21.5	21.5	0	0	0	0	0	0	0	0	0	0	0	0
26	3/27/2017	12:18:36	0	0	0	0	21.5	21.5	21.5	21.5	0	0	0	0	0	0	0	0	0	0	0	0
27	3/27/2017	12:19:06	0	0	0	0	21.5	21.5	21.5	21.5	0	0	0	0	0	0	0	0	0	0	0	0
28	3/27/2017	12:19:36	0	0	0	0	21.4	21.4	21.5	21.5	0	0	0	0	0	0	0	0	0	0	0	0
Peak			0	0	0	0	21.6	21.6	21.6	21.6	0	0	0	0	0	0	0	0	0	0	0	0
Min			0	0	0	0	21.4	21.4	21.5	21.5	0	0	0	0	0	0	0	0	0	0	0	0
Average			0	0	0	0	21.5	21.5	21.6	21.5	0	0	0	0	0	0	0	0	0	0	0	0

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TWA/STEL

Index	Date/Time	H2S(ppm) (TWA)	H2S(ppm) (STEL)	CO(ppm) (TWA)	CO(ppm) (STEL)	VOC(ppm) (TWA)	VOC(ppm) (STEL)
1	3/27/2017 12:06:06	0	---	0	---	---	---
2	3/27/2017 12:06:36	0	---	0	---	0	---
3	3/27/2017 12:07:06	0	---	0	---	0	---
4	3/27/2017 12:07:36	0	---	0	---	0	---
5	3/27/2017 12:08:06	0	---	0	---	0	---
6	3/27/2017 12:08:36	0	---	0	---	0	---
7	3/27/2017 12:09:06	0	---	0	---	0	---
8	3/27/2017 12:09:36	0	---	0	---	0	---
9	3/27/2017 12:10:06	0	---	0	---	0	---
10	3/27/2017 12:10:36	0	---	0	---	0	---
11	3/27/2017 12:11:06	0	---	0	---	0	---
12	3/27/2017 12:11:36	0	---	0	---	0	---
13	3/27/2017 12:12:06	0	---	0	---	0	---
14	3/27/2017 12:12:36	0	---	0	---	0	---
15	3/27/2017 12:13:06	0	---	0	---	0	---
16	3/27/2017 12:13:36	0	---	0	---	0	---
17	3/27/2017 12:14:06	0	---	0	---	0	---
18	3/27/2017 12:14:36	0	---	0	---	0	---
19	3/27/2017 12:15:06	0	---	0	---	0	---
20	3/27/2017 12:15:36	0	---	0	---	0	---
21	3/27/2017 12:16:06	0	---	0	---	0	---
22	3/27/2017 12:16:36	0	---	0	---	0	---
23	3/27/2017 12:17:06	0	---	0	---	0	---
24	3/27/2017 12:17:36	0	---	0	---	0	---
25	3/27/2017 12:18:06	0	---	0	---	0	---
26	3/27/2017 12:18:36	0	---	0	---	0	---
27	3/27/2017 12:19:06	0	---	0	---	0	---
28	3/27/2017 12:19:36	0	---	0	---	0	---

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17/03/27 12:54

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Summary

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Unit Name MultiRAE(PGM-6228)



20	3/27/2017	13:04:27	0	0	0	0	21.7	21.7	21.7	21.7	0	0	0	0	0	0	0	0	0	0	0	0	0
21	3/27/2017	13:04:57	0	0	0	0	21.7	21.7	21.7	21.7	0	0	0	0	0	0	0	0	0	0	0	0	0
22	3/27/2017	13:05:27	0	0	0	0	21.7	21.7	21.7	21.7	0	0	0	0	0	0	0	0	0	0	0	0.1	0
23	3/27/2017	13:05:57	0	0	0	0	21.7	21.7	21.7	21.7	0	0	0	0	0	0	0	0	0	0	0	0	0
24	3/27/2017	13:06:27	0	0	0	0	21.7	21.7	21.7	21.7	0	0	0	0	0	0	0	0	0	0	0	0	0
25	3/27/2017	13:06:57	0	0	0	0	21.7	21.7	21.7	21.7	0	0	0	0	0	0	0	0	0	0	0	0	0
26	3/27/2017	13:07:27	0	0	0	0	21.7	21.7	21.7	21.7	0	0	0	0	0	0	0	0	0	0	0	0	0
27	3/27/2017	13:07:57	0	0	0	0	21.7	21.7	21.7	21.7	0	0	0	0	0	0	0	0	0	0	0	0	0
28	3/27/2017	13:08:27	0	0	0	0	21.7	21.7	21.7	21.7	0	0	0	0	0	0	0	0	0	0	0	0	0
29	3/27/2017	13:08:57	0	0	0	0	21.6	21.6	21.7	21.6	0	0	0	0	0	0	0	0	0	0	0	0	0
30	3/27/2017	13:09:27	0	0	0	0	21.6	21.6	21.6	21.6	0	0	0	0	0	0	0	0	0	0	0	0	0
Peak			0	0	0	0	21.7	21.7	21.7	21.7	0	0	0	0	0	0	0	0	0	0	0	0.1	0
Min			0	0	0	0	21.6	21.6	21.6	21.6	0	0	0	0	0	0	0	0	0	0	0	0	0
Average			0	0	0	0	21.7	21.7	21.7	21.7	0	0	0	0	0	0	0	0	0	0	0	0	0

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TWA/STEL

Index	Date/Time	H2S(ppm) (TWA)	H2S(ppm) (STEL)	CO(ppm) (TWA)	CO(ppm) (STEL)	VOC(ppm) (TWA)	VOC(ppm) (STEL)
1	3/27/2017 12:54:57	0	---	0	---	---	---
2	3/27/2017 12:55:27	0	---	0	---	0	---
3	3/27/2017 12:55:57	0	---	0	---	0	---
4	3/27/2017 12:56:27	0	---	0	---	0	---
5	3/27/2017 12:56:57	0	---	0	---	0	---
6	3/27/2017 12:57:27	0	---	0	---	0	---
7	3/27/2017 12:57:57	0	---	0	---	0	---
8	3/27/2017 12:58:27	0	---	0	---	0	---
9	3/27/2017 12:58:57	0	---	0	---	0	---
10	3/27/2017 12:59:27	0	---	0	---	0	---
11	3/27/2017 12:59:57	0	---	0	---	0	---
12	3/27/2017 13:00:27	0	---	0	---	0	---
13	3/27/2017 13:00:57	0	---	0	---	0	---
14	3/27/2017 13:01:27	0	---	0	---	0	---
15	3/27/2017 13:01:57	0	---	0	---	0	---
16	3/27/2017 13:02:27	0	---	0	---	0	---
17	3/27/2017 13:02:57	0	---	0	---	0	---
18	3/27/2017 13:03:27	0	---	0	---	0	---
19	3/27/2017 13:03:57	0	---	0	---	0	---
20	3/27/2017 13:04:27	0	---	0	---	0	---
21	3/27/2017 13:04:57	0	---	0	---	0	---
22	3/27/2017 13:05:27	0	---	0	---	0	---
23	3/27/2017 13:05:57	0	---	0	---	0	---
24	3/27/2017 13:06:27	0	---	0	---	0	---
25	3/27/2017 13:06:57	0	---	0	---	0	---
26	3/27/2017 13:07:27	0	---	0	---	0	---
27	3/27/2017 13:07:57	0	---	0	---	0	---
28	3/27/2017 13:08:27	0	---	0	---	0	---
29	3/27/2017 13:08:57	0	---	0	---	0	---
30	3/27/2017 13:09:27	0	0	0	0	0	---

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17/03/27 13:17

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Summary

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Unit Name MultiRAE(PGM-6228)  
Unit SN MBB3Z034P9



21	3/27/2017	13:28:07	0	0	0	0	21.7	21.7	21.7	21.7	0	0	0	0	0	0	0	0	0	0	0	0
22	3/27/2017	13:28:37	0	0	0	0	21.7	21.7	21.7	21.7	0	0	0	0	0	0	0	0	0	0	0	0
23	3/27/2017	13:29:07	0	0	0	0	21.7	21.7	21.7	21.7	0	0	0	0	0	0	0	0	0	0	0	0
24	3/27/2017	13:29:37	0	0	0	0	21.7	21.7	21.7	21.7	0	0	0	0	0	0	0	0	0	0	0	0
25	3/27/2017	13:30:07	0	0	0	0	21.7	21.7	21.7	21.7	0	0	0	0	0	0	0	0	0	0	0	0
26	3/27/2017	13:30:37	0	0	0	0	21.7	21.7	21.7	21.7	0	0	0	0	0	0	0	0	0	0	0	0
27	3/27/2017	13:31:07	0	0	0	0	21.7	21.7	21.7	21.7	0	0	0	0	0	0	0	0	0	0	0	0
Peak			0	0	0	0	21.7	21.7	21.8	21.7	0	0	0	0	0	0	0	0	0	0	0	0
Min			0	0	0	0	21.7	21.7	21.7	21.7	0	0	0	0	0	0	0	0	0	0	0	0
Average			0	0	0	0	21.7	21.7	21.7	21.7	0	0	0	0	0	0	0	0	0	0	0	0

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TWA/STEL

Index	Date/Time	H2S(ppm)		CO(ppm)		VOC(ppm)	
		(TWA)	(STEL)	(TWA)	(STEL)	(TWA)	(STEL)
1	3/27/2017 13:18:07	0	---	0	---	---	---
2	3/27/2017 13:18:37	0	---	0	---	0	---
3	3/27/2017 13:19:07	0	---	0	---	0	---
4	3/27/2017 13:19:37	0	---	0	---	0	---
5	3/27/2017 13:20:07	0	---	0	---	0	---
6	3/27/2017 13:20:37	0	---	0	---	0	---
7	3/27/2017 13:21:07	0	---	0	---	0	---
8	3/27/2017 13:21:37	0	---	0	---	0	---
9	3/27/2017 13:22:07	0	---	0	---	0	---
10	3/27/2017 13:22:37	0	---	0	---	0	---
11	3/27/2017 13:23:07	0	---	0	---	0	---
12	3/27/2017 13:23:37	0	---	0	---	0	---
13	3/27/2017 13:24:07	0	---	0	---	0	---
14	3/27/2017 13:24:37	0	---	0	---	0	---
15	3/27/2017 13:25:07	0	---	0	---	0	---
16	3/27/2017 13:25:37	0	---	0	---	0	---
17	3/27/2017 13:26:07	0	---	0	---	0	---
18	3/27/2017 13:26:37	0	---	0	---	0	---
19	3/27/2017 13:27:07	0	---	0	---	0	---
20	3/27/2017 13:27:37	0	---	0	---	0	---
21	3/27/2017 13:28:07	0	---	0	---	0	---
22	3/27/2017 13:28:37	0	---	0	---	0	---
23	3/27/2017 13:29:07	0	---	0	---	0	---
24	3/27/2017 13:29:37	0	---	0	---	0	---
25	3/27/2017 13:30:07	0	---	0	---	0	---
26	3/27/2017 13:30:37	0	---	0	---	0	---
27	3/27/2017 13:31:07	0	---	0	---	0	---