MRD ATTENDANCE FORM

TITLE/SUBJECT: POLAR VORTEX 2019 AMT

DATE: 02/05/19 TO: 02/06/19
TIME: 18:00 TO: 06:00

SESSION NUMBER:

COMPLEX/AREA/DEPT: Entire Refinery and Neighboring Areas

TYPE:
- ☐ Training & Development Topic
- ☐ What If
- ☐ Sequential
- ☑ Other AMT Response
- ☐ General Safety Topic
- ☐ General Environmental Topic
- ☐ General Energy Topic

INSTRUCTOR NAME:
INSTRUCTOR SIGNATURE:

T&D ONLY
AREA CODE:
SUBJECT CODE:
COURSE CODE:

	Employee ID	PRINTED NAME	SIGNATURE
1	880450	Kelley James	[illegible]
2	875800	Jon Moulet	[illegible]
3	603381	Kevin Lepak	[illegible]
4			
5			
6			
7			
8			
9			
10			
11			
12			
13			
14			
15			
16			
17			
18			
19			
20			
21			
22			
23			
24			
25			
26			
27			
28			
29			
30			

Completed forms must be promptly delivered to the Training Center.

2/5/19 18:00

AMT FIELD DATA FORM

UltraRAE (VOC)	UltraRAE (Benzene)	Multigas/LEL 126	Other	Detector Tubes
Serial No.	Serial No.	Mfg/Model: PGM 6248	Mfg/Model:	Mfg:
Pre-Cal. Date/Time:	Pre-Cal. Date/Time:	Serial No: MCB3Z126PB	Serial No:	Tube Type:
Post-Cal. Date/ Time:	Post-Cal. Date/Time:	Pre-Cal. Date/Time: 2/5/19	Pre-Cal. Date/Time:	Tube Range:
Calibration Gas Lot:	Calibration Gas Lot:	Post-Cal. Date/Time: 2/6/19	Post-Cal. Date/Time:	
	RAE-SEP Tube Batch#	Calibration Gas Lot: 201811270	Calibration Gas Lot:	

Incident Name:	Sampler Name:	Date:
Polar Vortex	K. James, K. Lapak	2-5-19

Monitoring For:	Equipment Used (Circle Appropriate):
	UltraRAE Detector Tubes Multigas/LEL Other:

Monitoring Results

Location ID	Location Description/GPS Coordinates	Time	VOC (ppm)	Benzene (ppm)	LEL (%)	H_2S (ppm)	Other (List)	Observations/Comments	Sampler's Initials
MR#126	Heidt + Ormond (OVM)	6:50pm	0	—	0	0	CO-0, SO_2-0, O_2-20.9%		KL
126	Dearborn + Fort (OVM)	6:52pm	0	—	0	0	" "		KL
126	PLEASANT + LIDDESDALE	7:01pm	0	—	0	0	" " "		KL
126	VALLEN	7:11pm	0	—	0	0	" " "		KJJ
—	—	—	—	—	—	—	—	—	—
126	OAKWOOD + RAUPP	7:13pm	0	—	0	0	" " "		KJJ
126	OAKWOOD + FRANCIS	7:16pm	0	—	0	0	" " "		KJJ
126	LEO + FRANCIS	7:16pm	0	—	0	0	" " "		KJJ
126	LEO CLARANN	7:17pm	0	—	0	0	" " "		KJJ
126	CLARANN + OAKWOOD	7:17pm	0	—	0	0	" " "		KJJ
126	OAKWOOD + SCHAEFER	7:18pm	0	—	0	0	" " "		KJJ

ATTENTION: Printed copies should be used with caution. The user of this document must ensure the current approved version of the document is being used. This copy was updated on *9/26/2016*.

AMT FIELD DATA FORM

Monitoring Results									
Location ID	Location Description/GPS Coordinates	Time	VOC (ppm)	Benzene (ppm)	LEL (%)	H_2S (ppm)	Other (List)	Observations/Comments	
126	OAKWOOD + AIX	7:19	0	—	0	0	CO:0ppm SO_2:0ppm O_2:20.9%		KJJ

ATTENTION: Printed copies should be used with caution. The user of this document must ensure the current approved version of the document is being used. This copy was updated on *9/26/2016*.

02/05/2019 21:00

AMT FIELD DATA FORM

UltraRAE (VOC)	UltraRAE (Benzene)	Multigas/LEL 126	Other	Detector Tubes
Serial No.	Serial No.	Mfg/Model: PGM-6248	Mfg/Model:	Mfg:
Pre-Cal. Date/Time:	Pre-Cal. Date/Time:	Serial No: MC83Z126PB	Serial No:	Tube Type:
Post-Cal. Date/ Time:	Post-Cal. Date/Time:	Pre-Cal. Date/Time: 2/5/19	Pre-Cal. Date/Time:	Tube Range:
Calibration Gas Lot:	Calibration Gas Lot:	Post-Cal. Date/Time: 2/6/19	Post-Cal. Date/Time:	
	RAE-SEP Tube Batch#	Calibration Gas Lot: 2018112701	Calibration Gas Lot:	

Incident Name:	Sampler Name:	Date:
Polar Vortex	Kelley James	2/05/19

Monitoring For:

Equipment Used (Circle Appropriate): UltraRAE Detector Tubes Multigas/LEL Other:

Monitoring Results

Location ID	Location Description/GPS Coordinates	Time	VOC (ppm)	Benzene (ppm)	LEL (%)	H_2S (ppm)	Other (List)	Observations/Comments	Sampler's Initials
126-A	Oakwood + Flora	21:00	0	—	0	0	CO:0ppm SO2:0ppm	O2:20.9%	KJJ
126-B	Leo + + Flora	21:02	0	—	0	0	" "	"	KJJ
126-C	Rose + Flora	21:03	0	—	0	0	" " "	"	KJJ
126-D	CLARANN + ROSE	21:03	0	—	0	0	" " "	"	KJJ
126-E	Oakwood + Rose	21:04	0	—	0	0	" "	"	KJJ
126-F	Dix + Oakwood	21:06	0	—	0	0	" "	"	KJJ
126-G	LEO + DORA	21:08	0	—	0	0	" "	"	KJJ

ATTENTION: Printed copies should be used with caution. The user of this document must ensure the current approved version of the document is being used. This copy was updated on *9/26/2016*.

02/05/19 22:00

AMT FIELD DATA FORM

UltraRAE (VOC)	UltraRAE (Benzene)	Multigas/LEL 12 C	Other	Detector Tubes
Serial No.	Serial No.	Mfg/Model: PGM 6248	Mfg/Model:	Mfg:
Pre-Cal. Date/Time:	Pre-Cal. Date/Time:	Serial No: MCB 32 126PB	Serial No:	Tube Type:
Post-Cal. Date/ Time:	Post-Cal. Date/Time:	Pre-Cal. Date/Time: 02/05/19	Pre-Cal. Date/Time:	Tube Range:
Calibration Gas Lot:	Calibration Gas Lot:	Post-Cal. Date/Time: 2/6/19	Post-Cal. Date/Time:	
	RAE-SEP Tube Batch#	Calibration Gas Lot: 20181127 01	Calibration Gas Lot:	

Incident Name:	Sampler Name:	Date:
POLAR VORTEX	Kelley James	05/2 02/05/19

Monitoring For:

Equipment Used (Circle Appropriate): UltraRAE Detector Tubes Multigas/LEL Other:

Monitoring Results

Location ID	Location Description/GPS Coordinates	Time	VOC (ppm)	Benzene (ppm)	LEL (%)	H_2S (ppm)	Other (List)		Observations/Comments	Sampler's Initials
126-A	Oakwood + Schafer	22:19	0	—	0	0	CO: 0 ppm	SO_2: 0 ppm	O_2: 20.9%	KJJ
126-B	Claraam + Oakwood	22:20	0	—	0	0	"	"	"	KJJ
126-C	Claraam + LEO	22:22	0	—	0	0	"	"	"	KJJ
126-D	Claraam + ROSE	22:24	0	—	0	0	"	"	"	KJJ
126-E	ROSE + FLORA	22:25	0	—	0	0	"	"	"	KJJ
126-F	ROSE + LEO	22:26	0	—	0	0	"	"	"	KJJ
126-G	DORA + OAKWOOD	22:26	0	—	0	0	"	"	"	KJJ
126-H	OAKWOOD + FLORA	22:27	0	—	0	0	"	"	"	KJJ
126-I	FLORA + LEO	22:28	0	—	0	0	"	"	"	KJJ
126-J	ROSE + FLORA	22:29	0	—	0	0	"	"	"	KJJ
126-K	LEO + ROSE	22:30	0	—	0	0	"	"	"	KJJ

ATTENTION: Printed copies should be used with caution. The user of this document must ensure the current approved version of the document is being used. This copy was updated on *9/26/2016*.

AMT FIELD DATA FORM

Monitoring Results									
Location ID	Location Description/GPS Coordinates	Time	VOC (ppm)	Benzene (ppm)	LEL (%)	H_2S (ppm)	Other (List)	Observations/Comments	
126-L	Schaefer + USE	22:33	0	—	0	0	CO: 0ppm SO_2: 0ppm O_2: 20.9%		KJJ

02/05/19 23:39

AMT FIELD DATA FORM

UltraRAE (VOC)	UltraRAE (Benzene)	Multigas/LEL 126	Other	Detector Tubes
Serial No.	Serial No.	Mfg/Model: PGM 6248	Mfg/Model:	Mfg:
Pre-Cal. Date/Time:	Pre-Cal. Date/Time:	Serial No: MCB32126PB	Serial No:	Tube Type:
Post-Cal. Date/ Time:	Post-Cal. Date/Time:	Pre-Cal. Date/Time: ~~02~~ 02/05/19	Pre-Cal. Date/Time:	Tube Range:
Calibration Gas Lot:	Calibration Gas Lot:	Post-Cal. Date/Time: 02/06/19	Post-Cal. Date/Time:	
	RAE-SEP Tube Batch#	Calibration Gas Lot: 201811270	Calibration Gas Lot:	

Incident Name:	Sampler Name:	Date:
Polar Vortex	Kelley Jurney Day	02/05/19-02/06/19

Monitoring For:

Equipment Used (Circle Appropriate): UltraRAE Detector Tubes Multigas/LEL Other:

Monitoring Results

Location ID	Location Description/GPS Coordinates	Time	VOC (ppm)	Benzene (ppm)	LEL (%)	H_2S (ppm)	Other (List)	Observations/Comments	Sampler's Initials
126-A	LEO+FRANCIS	23:43	0	—	0	0	CO: 0ppm SO2: 0ppm	O2: 20.9%	KJJ
126-B	FLORA+ROSE	23:44	0	—	0	0	" "	"	KJJ
126-C	DIX+ROSE	23:45	0	—	0	0	" "	"	KJJ
126-D	OAKWOOD+DIX	23:46	0	—	0	0	" "	"	KJJ
126-E	OAKWOOD+FLORA	23:47	0	—	0	0	" "	"	KJJ
126-F	LEO+FLORA	23:49	0	—	0	0	" "	"	KJJ

ATTENTION: Printed copies should be used with caution. The user of this document must ensure the current approved version of the document is being used. This copy was updated on *9/26/2016*.

02/06/2019 01:00

AMT FIELD DATA FORM

UltraRAE (VOC)	UltraRAE (Benzene)	Multigas/LEL 126	Other	Detector Tubes
Serial No.	Serial No.	Mfg/Model: PGM-6248	Mfg/Model:	Mfg:
Pre-Cal. Date/Time:	Pre-Cal. Date/Time:	Serial No: MCB32126PB	Serial No:	Tube Type:
Post-Cal. Date/ Time:	Post-Cal. Date/Time:	Pre-Cal. Date/Time: 02/05/19	Pre-Cal. Date/Time:	Tube Range:
Calibration Gas Lot:	Calibration Gas Lot:	Post-Cal. Date/Time: 02/06/19	Post-Cal. Date/Time:	
	RAE-SEP Tube Batch#	Calibration Gas Lot: 20181270	Calibration Gas Lot:	

Incident Name:	Sampler Name:	Date:
Polar Vortex	Kelley James, ~~Dan~~ John	02/06/2019

Monitoring For:

Equipment Used (Circle Appropriate): UltraRAE Detector Tubes Multigas/LEL Other:

Monitoring Results

Location ID	Location Description/GPS Coordinates	Time	VOC (ppm)	Benzene (ppm)	LEL (%)	H_2S (ppm)	Other (List)	Observations/Comments	Sampler's Initials
126-A	LEO+FRANCIS	01:45	0	—	0	0	CO:0ppm SO_2:0ppm	O_2:20.9%	KJJ
126-B	FLORA+ROSE	1:46	0	—	0	0	" "	"	KJJ
126-C	ROSE+OAKWOOD	1:47	0	—	0	0	" "	"	KJJ
126-D	ROSE+PALMER	1:48	0	—	0	0	" "	"	KJJ
126-E	~~DIX+PALMER~~ OAKWOOD	1:49	0	—	0	0	" "	"	KJJ
126-F	OAKWOOD+FLORA	1:50	0	—	0	0	" "	"	KJJ
126-G	SCHAEFER FLORA	1:51	0	—	0	0	" "	"	KJJ

ATTENTION: Printed copies should be used with caution. The user of this document must ensure the current approved version of the document is being used. This copy was updated on *9/26/2016*.

02/06/2019 03:30

AMT FIELD DATA FORM

UltraRAE (VOC)	UltraRAE (Benzene)	Multigas/LEL 126	Other	Detector Tubes
Serial No.	Serial No.	Mfg/Model: PGM-6248	Mfg/Model:	Mfg:
Pre-Cal. Date/Time:	Pre-Cal. Date/Time:	Serial No: MCB32126PB	Serial No:	Tube Type:
Post-Cal. Date/ Time:	Post-Cal. Date/Time:	Pre-Cal. Date/Time: 02/05/19	Pre-Cal. Date/Time:	Tube Range:
Calibration Gas Lot:	Calibration Gas Lot:	Post-Cal. Date/Time: 02/06/19	Post-Cal. Date/Time:	
	RAE-SEP Tube Batch#	Calibration Gas Lot: 2018 11270	Calibration Gas Lot:	

Incident Name:	Sampler Name:	Date:
Polar Vortex	Kelley James	02/06/2019

Monitoring For:

Equipment Used (Circle Appropriate): UltraRAE Detector Tubes Multigas/LEL Other:

Monitoring Results

Location ID	Location Description/GPS Coordinates	Time	VOC (ppm)	Benzene (ppm)	LEL (%)	H_2S (ppm)	Other (List)	Observations/Comments	Sampler's Initials
126-A	PLEASANT + PATRICIA	3:38	0	—	0	0	CO: 0 ppm SO_2: 0 ppm	O_2: 20.9 %	KJJ
126-B	PLEASANT + LIDDESDALE	3:39	0	—	0	0	" "	"	KJJ
126-C	BEATRICE + LEONARD	3:40	0	—	0	0	" "	"	KJJ
126-D	BEATRICE + GILROY	3:41	0	—	0	0	" "	"	KJJ
126-E	BEATRICE + SCHAEFER	3:42	0	—	0	0	" "	"	KJJ
126-F	SCHAEFER + FORT	3:43	0	—	0	0	" "	"	KJJ

ATTENTION: Printed copies should be used with caution. The user of this document must ensure the current approved version of the document is being used. This copy was updated on *9/26/2016*.

02/06/19 05:00

AMT FIELD DATA FORM

UltraRAE (VOC)	UltraRAE (Benzene)	Multigas/LEL 126	Other	Detector Tubes
Serial No.	Serial No.	Mfg/Model: PGM-6248	Mfg/Model:	Mfg:
Pre-Cal. Date/Time:	Pre-Cal. Date/Time:	Serial No: MCB32126PB	Serial No:	Tube Type:
Post-Cal. Date/ Time:	Post-Cal. Date/Time:	Pre-Cal. Date/Time: 02/05/19	Pre-Cal. Date/Time:	Tube Range:
Calibration Gas Lot:	Calibration Gas Lot:	Post-Cal. Date/Time: 02/06/19	Post-Cal. Date/Time:	
	RAE-SEP Tube Batch#	Calibration Gas Lot: 20181120	Calibration Gas Lot:	

Incident Name:	Sampler Name:	Date:
Polar Vortex	Kelley James, JOHN	02/06/19

Monitoring For:

Equipment Used (Circle/Appropriate): UltraRAE Detector Tubes Multigas/LEL Other:

Monitoring Results

Location ID	Location Description/GPS Coordinates	Time	VOC (ppm)	Benzene (ppm)	LEL (%)	H_2S (ppm)	Other (List)	Observations/Comments	Sampler's Initials
126-A	LEO + FRANCIS	05:12	0	—	0	0	CO: 0 ppm SO_2: 0 ppm	O_2: 20.7%	KJJ
126-B	FLORA + ROSE	05:13	0	—	0	0	" "	"	KJJ
126-C	CLARANN + LEO	05:15	0	—	0	0	" "	"	KJJ
126-D	SCHAEFER + CLARANN	05:17	0	—	0	0	" "	"	KJJ

ATTENTION: Printed copies should be used with caution. The user of this document must ensure the current approved version of the document is being used. This copy was updated on *9/26/2016*.

Go To Administration

MRD ATTENDANCE FORM

TITLE/SUBJECT: Polar Vortex 2019 AMT ~~Air Monitoring Team Emergency Response~~

DATE: 2/6/19 **TO:** 2/6/19 Day Shift **SESSION NUMBER:**
TIME: 0600 **TO:** 1800

COMPLEX/AREA/DEPT:

TYPE:
- ☐ Training & Development Topic
- ☐ What If
- ☐ Sequential
- ☑ ~~Emergency~~ Other AMT Response
- ☐ General Safety Topic
- ☐ General Environmental Topic
- ☐ General Energy Topic

INSTRUCTOR NAME:
INSTRUCTOR SIGNATURE:

T&D ONLY
AREA CODE:
SUBJECT CODE:
COURSE CODE:

	Employee ID	PRINTED NAME	SIGNATURE
1	729263	John Taggart	
2	310210		
3	075879	David Francis	
4	782185	DOUG PEK	
5	838938	Rick NEWMA	
6	820230	ADRIAN DARZU	
7			
8			
9			
10			
11			
12			
13			
14			
15			
16			
17			
18			
19			
20			
21			
22			
23			
24			
25			
26			
27			
28			
29			
30			

Completed forms must be promptly delivered to the Training Center.

Printed copies should be used with caution. The user of this document must ensure the current approved version of the document is being used.

INSTRUMENT CALIBRATION CHECK

Calibration Results must be in the following range: O_2: 16 % to 19 % MultiRae and AreaRae Plus

LEL: 40 % to 60 % O_2: < .5 % (Area Rae) (99.99% Nitrogen VOC 80 ppm to 120 ppm

H_2S: 10ppm 8 ppm to 12 Other: CO 40 ppm to 60 ppm

ppm Other: SO2 4 ppm to 6 Other: NH3 40 ppm to 60 ppm

If instruments cannot be calibrated to the above manufacturer's listed ranges, the instrument must be taken out of service and repaired.

	Instrument ID	Date	Time	Calibration Results	Calibrated by:	Comments
AR	2	2/6/19	0719	LEL 45 % O_2 0.0 % VOC 99.3 ppm SO_2 5.1 ppm H_2S 10 ppm ___ ___ ppm	JET	Not used.
AR	7	2/6/19	0730	LEL 49 % O_2 0.0 % VOC 95.2 ppm ___ ___ ppm H_2S 10 ppm ___ ___ ppm	JET	Not used.
AR Plus	5	2/6/19	0755	LEL 50 % O_2 18.0 % VOC 100 ppm NH_3 50 ppm H_2S 10 ppm ___ ___ ppm	JET	Not used.
MR	126	2/6/19	11:25	LEL PASS % O_2 PASS % VOC PASS ppm CO PASS ppm H_2S PASS ppm SO2 PASS ppm	JPW	Pass
MR	125	2/6/19	12:01	LEL PASS % O_2 PASS % VOC PASS ppm CO PASS ppm H_2S PASS ppm SO2 PASS ppm	JPW	Post ok
				LEL ___ % O_2 ___ % VOC ___ ppm ___ ___ ppm H_2S ___ ppm ___ ___ ppm		
				LEL ___ % O_2 ___ % VOC ___ ppm ___ ___ ppm H_2S ___ ppm ___ ___ ppm		

ATTENTION: Printed copies should be used with caution. The user of this document must ensure the current approved version of the document is being used. This copy was updated on *9/26/2016*.

INSTRUMENT CALIBRATION CHECK

Calibration Results must be in the following range: O_2: 16 % to 19 % MultiRae and AreaRae Plus

LEL: 40 % to 60 % O_2: < .5 % (Area Rae) (99.99% Nitrogen VOC 80 ppm to 120 ppm

H_2S: 10ppm 8 ppm to 12 Other: CO 40 ppm to 60 ppm

ppm Other: SO2 4 ppm to 6 Other: NH3 40 ppm to 60 ppm

If instruments cannot be calibrated to the above manufacturer's listed ranges, the instrument must be taken out of service and repaired.

	Instrument ID	Date	Time	Calibration Results	Calibrated by:	Comments
AR	18CV	2/6/19	6:22 AM	LEL 49 % O_2 PASS % VOC 106 ppm ___ ___ ppm H_2S 10 ppm SO_2 5 ppm	JDW	Not used
AR	42	2/6/19	6:24	LEL 50 % O_2 PASS % VOC 101 ppm ___ ___ ppm H_2S 11 ppm NH_3 54 ppm	JDW	Pass
MR	124	2/6/19	6:25	LEL PASS % O_2 PASS % VOC PASS ppm CO PASS ppm H_2S PASS ppm SO_2 PASS ppm	JDW	Post ok
UR	36	2/6/19	6:26	LEL ___ % O_2 ___ % VOC ___ ppm ___ ___ ppm H_2S ___ ppm Benzene PASS ppm	JDW	Post ok
MR	121	2/6/19	6:36	LEL PASS % O_2 PASS % VOC PASS ppm CO PASS ppm H_2S PASS ppm NH_3 PASS ppm	JDW	Post ok
UR	3	2/6/19	6:36	LEL ___ % O_2 ___ % VOC ___ ppm ___ ___ ppm H_2S ___ ppm Benzene PASS ppm	JDW	Post of
AR	8	2/6/19	0658	LEL 48 % O_2 0.0 % VOC 92.1 ppm CO 45 ppm H_2S 9 ppm ___ ___ ppm	JET	

ATTENTION: Printed copies should be used with caution. The user of this document must ensure the current approved version of the document is being used. This copy was updated on *9/26/2016*.

AMT FIELD DATA FORM

MONITOR 126

2-6-19

Monitoring Results

Location ID	Location Description/GPS Coordinates	Time	VOC (ppm)	Benzene (ppm)	LEL (%)	H_2S (ppm)	Other (List)	Observations/Comments
	Oakwood & Flora	1:57	BDL	BDL	BDL	BDL	20.9 %	NDO
	Dora & Leo	1:59	BDL	BDL	BDL	BDL	20.9 %	NDO
	Wabash & Downing	1:59	BDL	BDL	BDL	BDL	20.9 %	NDO
	Palmer - Noeman	2:09	BDL	BDL	BDL	BDL	20.9 %	NDO
	Dix - Emily	2:12	BDL	BDL	BDL	BDL	20.9 %	NDO
	Morris - Porter	2:18	BDL	BDL	BDL	BDL	20.9 %	NDO
	Morris - Wall	2:22	BDL	BDL	BDL	BDL	20.9 %	NDO
	Allen - University	2:29	BDL	BDL	BDL	BDL	20.9 %	NDO
	Gough - Prospect	2:37	BDL	BDL	BDL	BDL	20.9 %	NDO
	Ruth - Coleman	2:39	BDL	BDL	BDL	BDL	20.9 %	NDO
	Leo - Francis	2:50	BDL	BDL	BDL	BDL	20.9 %	NDO
	Clarann - Rose	2:53	BDL	BDL	BDL	BDL	20.9 %	NDO
	N Wabash - Eddon	2:53	BDL	BDL	BDL	BDL	20.9 %	NDO
	Vallen	3:01	BDL	BDL	BDL	BDL	20.9 %	NDO
	Dearborn - Fort	3:22	BDL	BDL	BDL	BDL	20.9 %	NDO
	OAKWOOD & DORA	4:25	BDL	BDL	BDL	BDL	20.9	NDO
	Clarann & Leo	430	BDL	BDL	BDL	BDL	20.9	NDO
	Leo & Dix	435	BDL	BDL	BDL	BDL	20.9	NDO

ATTENTION: Printed copies should be used with caution. The user of this document must ensure the current approved version of the document is being used. This copy was updated on *9/26/2016*.

Francis / Newman

2-16-19

AMT FIELD DATA FORM

UltraRAE (VOC)	UltraRAE (Benzene)	Multigas/LEL	Other	Detector Tubes
Serial No.	Serial No.	Mfg/Model:	Mfg/Model:	Mfg:
Pre-Cal. Date/Time:	Pre-Cal. Date/Time:	Serial No:	Serial No:	Tube Type:
Post-Cal. Date/ Time:	Post-Cal. Date/Time:	Pre-Cal. Date/Time:	Pre-Cal. Date/Time:	Tube Range:
Calibration Gas Lot:	Calibration Gas Lot:	Post-Cal. Date/Time:	Post-Cal. Date/Time:	
	RAE-SEP Tube Batch#	Calibration Gas Lot:	Calibration Gas Lot:	

Incident Name:	Sampler Name:	Date:

Monitoring For:	Equipment Used (Circle Appropriate):			
	UltraRAE	Detector Tubes	Multigas/LEL	Other:

Monitoring Results

Location ID	Location Description/GPS Coordinates	Time	VOC (ppm)	Benzene (ppm)	LEL (%)	H_2S (ppm)	Other (List)	Observations/Comments	Sampler's Initials
	Corner of Oakwood & Schafer	1008	0ppb		0	0		No odor	JET

Francis / Newman

AMT FIELD DATA FORM

2-6-19

MultiRae 126

Monitoring Results

Location ID	Location Description/GPS Coordinates	Time	VOC (ppm)	Benzene (ppm)	LEL (%)	H_2S (ppm)	Other (List)	Observations/Comments
	Outer De - Dix	10:39	BDL	BDL	BDL	BDL	20.9	NDO Monitor BY

ATTENTION: Printed copies should be used with caution. The user of this document must ensure the current approved version of the document is being used. This copy was updated on *9/26/2016*.

Francis Newman

2/6/19

AMT FIELD DATA FORM

Monitoring Results								
Location ID	Location Description/GPS Coordinates	Time	VOC (ppm)	Benzene (ppm)	LEL (%)	H_2S (ppm)	Other (List)	Observations/Comments
A.R. 42	SCHAEFER + FRANCIS	0815	0		0	0	NH3=0 O2=20.9	
M.R. 121	"	"	0		0	0	CO=0 NH3=0 O2=20.9	
42	"	0828	0		0	0	NH3=0 O2=20.9	
121	"	"	0		0	0	CO=0 NH3=0 O2=20.9	
42	CLARANN + N. WABASH	0840	0		0	0	NH3=0 O2=20.9	
121	"	"	0		0	0	CO=0 NH3=0 O2=20.9	
42	RIALTO + S. WABASH	0853	0		0	0	NH3=0 O2=20.9	
121	"	"	0		0	0	CO=0 NH3=0 O2=20.9	
42	"	0905	0		0	0	NH3=0 O2=20.9	
121	"	"	0		0	0	CO=0 NH3=0 O2=20.9	
42	RIALTO + OUTERDRIVE	0914	0		0	0	NH3=0 O2=0	
121	"	"	0		0	0	CO=0 NH3=0 O2=20.9	
42	FORT + VISGER	0939	0		0	0	NH3=0 O2=20.9	
121	"	"	0		0	0	CO=0 NH3=0 O2=20.9	
42	KEMENY REC. CENTER	1050	0		0	0	NH3=0 O2=20.6	
121	"	"	0		0	0	CO=0 NH3=0 O2=20.9	
42	SCHAEFER + FRANCIS	1100	0		0	0	NH3=0 O2=20.9	
121	"	"	0		0	0	CO=0 NH3=0 O2=20.9	

ATTENTION: Printed copies should be used with caution. The user of this document must ensure the current approved version of the document is being used. This copy was updated on *9/26/2016*.

D. PEK/A. DARZU

2/6/19

AMT FIELD DATA FORM

Monitoring Results								
Location ID	Location Description/GPS Coordinates	Time	VOC (ppm)	Benzene (ppm)	LEL (%)	H_2S (ppm)	Other (List)	Observations/Comments
42	SCHAEFER + FRANCIS	1120	0		0	0	NH3=0 O2=20.9	
121	"	"	0		0	0	CO=0 NH3=0 O2=20.9	
42	KEMENY REC. CENTER	1219	0		0	0	NH3=0 O2=20.9	
121	"	"	0		0	0	CO=0 NH3=0 O2=20.9	
42	KEMENY REC. CENTER	1242	0		0	0	NH3=0 O2=20.9	
121	"	"	0		0	0	CO=0 NH3=0 O2=20.9	
42	ELECTRIC + W. OUTER DR.	1252	0		0	0	NH3=0 O2=20.9	
NAB/11B		1315						LOW BATT UNIT 121. REPLACE 121 W/ UNIT 124. EXCHANGE TABLET
42	KEMENY REC. CENTER	1354	0		0	0	NH3=0 O2=20.9	
124	"	"	0		0	0	CO=0 SO2=0 O2=20.9	
42	"	1417	0		0	0	NH3=0 O2=20.9	
124	"	"	0		0	0	CO=0 SO2=0 O2=20.9	
42	OUTER DR WAREHOUSE	1432	0		0	0	NH3=0 O2=20.9	
124	"	"	0		0	0	CO=0 SO2=0 O2=20.9	
42	ORMOND + HEIDT	1512	0		0	0	NH3=0 O2=20.9	OVM PICK-UP/STOP VV6173
124	"	"	0		0	0	CO=0 SO2=0 O2=20.9	
42	LIDDESDALE + PLEASANT	1520	0		0	0	NH3=0 O2=20.9	OVM PICK-UP/STOP VV6219
124	"	"	0		0	0	CO=0 SO2=0 O2=20.9	

ATTENTION: Printed copies should be used with caution. The user of this document must ensure the current approved version of the document is being used. This copy was updated on *9/26/2016*.

D. PEK / A. DARZU

2/6/19

AMT FIELD DATA FORM

Monitoring Results								
Location ID	Location Description/GPS Coordinates	Time	VOC (ppm)	Benzene (ppm)	LEL (%)	H_2S (ppm)	Other (List)	Observations/Comments
42	SCHAEFER & FRANCIS	1709	0		0	0	NH3 = 0 O2 = 20.9	
124	"	"	0		0	0	CO = 0 SO2 = 0 O2 = 20.9	LOW BATT.

ATTENTION: Printed copies should be used with caution. The user of this document must ensure the current approved version of the document is being used. This copy was updated on *9/26/2016*.

D. PEK / A. DARZU

AMT FIELD DATA FORM

Multi Use 124

2-6-19

Monitoring Results

Location ID	Location Description/GPS Coordinates	Time	VOC (ppm)	Benzene (ppm)	LEL (%)	H_2S (ppm)	Other (List)	Observations/Comments
	Chaeter - Mellon	8:26	BDL	BDL	BDL	BDL	20.9 O_2	No Detectable ODOR
	Homestead - Wahl	8:28	BDL	BDL	BDL	BDL	20.9 O_2	NDO
	Elizabeth - Melwood	8:32	BDL	BDL	BDL	BDL	20.9 O_2	NDO
	OAKwood - Elizabeth	8:34	BDL	BDL	BDL	BDL	20.9%	NDO
	Lenore - Prospect	8:34	BDL	BDL	BDL	BDL	20.9%	NDO
	Clarence - Hanna	8:40	BDL	BDL	BDL	BDL	20.9%	NDO
	S. Dearborn - Harm	8:44	BDL	BDL	BDL	BDL	20.9%	NDO
	OAKWood - Enterprise	8:49	BDL	BDL	BDL	BDL	20.9%	NDO
	Wood - Cora	8:55	BDL	BDL	BDL	BDL	20.9%	NDO
	MARTEL - WOOD	9:01	BDL	BDL	BDL	BDL	20.9%	NDO
	Greenfield - Springwell	9:09	BDL	BDL	BDL	BDL	20.9%	NDO
	Gale - Dumfries	9:24	BDL	BDL	BDL	BDL	20.9%	NDO
	Rotunda - OAKwood	10:09	BDL	BDL	BDL	BDL	20.9%	NDO
	OAKWOOD - Village Rd	10:10	BDL	BDL	BDL	BDL	20.9%	NDO
	Grinley - Outa Dr	10:23	BDL	BDL	BDL	BDL	20.9%	NDO
	Outa Dr - Monroe	10:26	BDL	BDL	BDL	BDL	20.9%	NDO
	Outa Dr. - Carlisle	10:30	BDL	BDL	BDL	BDL	20.9%	NDO
	Outer Dr. - South Field	10:32	BDL	BDL	BDL	BDL	20.9%	NDO

ATTENTION: Printed copies should be used with caution. The user of this document must ensure the current approved version of the document is being used. This copy was updated on *9/26/2016*.

Francis/Newman

AMT FIELD DATA FORM

Monitor 126

2-6-19

Monitoring Results								
Location ID	Location Description/GPS Coordinates	Time	VOC (ppm)	Benzene (ppm)	LEL (%)	H_2S (ppm)	Other (List)	Observations/Comments
	DORA & ROSE	445	BDL	BDL	BDL	BDL	20.9	NDO
	Leo & Flora	5:00	BDL	BDL	BDL	BDL	20.9	NDO
	OAKWOOD & Flora	5:05	BDL	BDL	BDL	BDL	20.9	NDO
	980 DIX	5:18	BDL	BDL	BDL	BDL	20.9	NDO

ATTENTION: Printed copies should be used with caution. The user of this document must ensure the current approved version of the document is being used. This copy was updated on *9/26/2016*.

Francis

MRD ATTENDANCE FORM

TITLE/SUBJECT: POLAR VORTEX 2019 AMT

DATE: 02/06/19 TO: 02/07/19
TIME: 18:00 TO: 06:00

SESSION NUMBER:

COMPLEX/AREA/DEPT: Entire Refinery + Neighboring Areas

TYPE:
- ☐ Training & Development Topic
- ☐ What If
- ☐ Sequential
- ☑ Other AMT Response
- ☐ General Safety Topic
- ☐ General Environmental Topic
- ☐ General Energy Topic

INSTRUCTOR NAME:
INSTRUCTOR SIGNATURE:

T&D ONLY
AREA CODE:
SUBJECT CODE:
COURSE CODE:

	Employee ID	PRINTED NAME	SIGNATURE
1	880450	Kelley James	[illegible]
2	875800	Jon Mouhot	[illegible]
3	603381	Kevin Lapak	[illegible]
4			
5			
6			
7			
8			
9			
10			
11			
12			
13			
14			
15			
16			
17			
18			
19			
20			
21			
22			
23			
24			
25			
26			
27			
28			
29			
30			

Completed forms must be promptly delivered to the Training Center.

Printed copies should be used with caution. The user of this document must ensure the current approved version of the document is being used.

02/06/19 22:30

AMT FIELD DATA FORM

UltraRAE (VOC)	UltraRAE (Benzene)	Multigas/LEL 124	Other	Detector Tubes
Serial No.	Serial No.	Mfg/Model: PGM	Mfg/Model:	Mfg:
Pre-Cal. Date/Time:	Pre-Cal. Date/Time:	Serial No: MC332124PB	Serial No:	Tube Type:
Post-Cal. Date/ Time:	Post-Cal. Date/Time:	Pre-Cal. Date/Time: 2/6/19 8:12pm	Pre-Cal. Date/Time:	Tube Range:
Calibration Gas Lot:	Calibration Gas Lot:	Post-Cal. Date/Time:	Post-Cal. Date/Time:	
	RAE-SEP Tube Batch#	Calibration Gas Lot: 201811270	Calibration Gas Lot:	

Incident Name:	Sampler Name:	Date:
Polar Vortex	Kelley James, John	02/06/19

Monitoring For:

Equipment Used (Circle Appropriate): UltraRAE Detector Tubes Multigas/LEL Other:

Monitoring Results

Location ID	Location Description/GPS Coordinates	Time	VOC (ppm)	Benzene (ppm)	LEL (%)	H_2S (ppm)	Other (List)	Observations/Comments	Sampler's Initials
124-A	Downing + Fisher	22:50	0	—	0	0	CO: 0 ppm SO2: 0 ppm	O2 = 20.9%	KJJ
124-B	Omaha + Fisher	22:51	0	—	0	0	" "	"	KJJ
124-C	Visger + Fisher	22:52	0	—	0	0	" "	"	KJJ
124-D	Greyfriars + Visger	22:53	0	—	0	0	" "	"	KJJ
124-E	Fort + Visger	22:53	0	—	0	0	" "	"	KJJ
124-F	Visger + Edsel	22:54	0	—	0	0	" "	"	KJJ
124-G	Electric + Omaha	22:54	0	—	0	0	" "	"	KJJ
124-H	Electric + Downing	22:55	0	—	0	0	" "	"	KJJ
124-I	Electric + Miami	22:56	0	—	0	0	" "	"	KJJ
124-J	Electric + Schaefer	22:56	0	—	0	0	" "	"	KJJ

ATTENTION: Printed copies should be used with caution. The user of this document must ensure the current approved version of the document is being used. This copy was updated on *9/26/2016*.

02/06/19 21:00

AMT FIELD DATA FORM

UltraRAE (VOC)	UltraRAE (Benzene)	Multigas/LEL	Other	Detector Tubes
Serial No.	Serial No.	Mfg/Model: MultiRae Pro	Mfg/Model:	Mfg:
Pre-Cal. Date/Time:	Pre-Cal. Date/Time:	Serial No: MCB3Z124PB	Serial No:	Tube Type:
Post-Cal. Date/ Time:	Post-Cal. Date/Time:	Pre-Cal. Date/Time: 2/6/19 8:12pm	Pre-Cal. Date/Time:	Tube Range:
Calibration Gas Lot:	Calibration Gas Lot:	Post-Cal. Date/Time: 2/6/19 9:45	Post-Cal. Date/Time:	
	RAE-SEP Tube Batch#	Calibration Gas Lot: 20181127 01 219304, 210742	Calibration Gas Lot:	

Incident Name:	Sampler Name:	Date:
Polar Vortex	K. Lepak, J. Moulot	2-6-19

Monitoring For:	Equipment Used (Circle Appropriate):			
Multi Gas	UltraRAE	Detector Tubes	Multigas/LEL	Other:

Monitoring Results

Location ID	Location Description/GPS Coordinates	Time	VOC (ppm)	Benzene (ppm)	LEL (%)	H_2S (ppm)	Other (List)	Observations/Comments	Sampler's Initials
124-A	Wabash & Downing	8:48	0	—	0	0	CO-0, SO_2-0, O_2-20.9%		KL
124-B	Art Fontana Tot Lot	8:49	0	—	0	0	"		KL
124-C	Wabash & Rialto	8:51	0	—	0	0	"		KL
124-D	Miami & Rialto	8:52	0	—	0	0	"		KL
124-E	Downing & Rialto	8:53	0	—	0	0	"		KL
124-F	Rialto & Bloomfield	8:53	0	—	0	0	"		KL
124-G	Bloomfield & Meijer	8:54	0	—	0	0	"		KL
124-H	Dix & Bloomfield	8:55	0	—	0	0	"		KL
124-I	Dix & Schaefer	8:59	0	—	0	0	"		KL
124-J	Melvindale Tank farm Gate	9:00	0	—	0	0	"		KL
124-K	Dix & Schaefer	9:03	0	—	0	0	"		KL

ATTENTION: Printed copies should be used with caution. The user of this document must ensure the current approved version of the document is being used. This copy was updated on 9/26/2016.

02/06/19 19:00

AMT FIELD DATA FORM

UltraRAE (VOC)	UltraRAE (Benzene)	Multigas/LEL 124	Other	Detector Tubes
Serial No.	Serial No.	Mfg/Model: PGM	Mfg/Model:	Mfg:
Pre-Cal. Date/Time:	Pre-Cal. Date/Time:	Serial No: MCB32 124PB	Serial No:	Tube Type:
Post-Cal. Date/ Time:	Post-Cal. Date/Time:	Pre-Cal. Date/Time: 2/6/19 8:12	Pre-Cal. Date/Time:	Tube Range:
Calibration Gas Lot:	Calibration Gas Lot:	Post-Cal. Date/Time:	Post-Cal. Date/Time:	
	RAE-SEP Tube Batch#	Calibration Gas Lot: 20181270	Calibration Gas Lot:	

Incident Name:	Sampler Name:	Date:
Polar Vortex	Kelley James, ~~Doug~~ Jon	02/06/2019

Monitoring For:	Equipment Used (Circle Appropriate):			
	UltraRAE	Detector Tubes	Multigas/LEL	Other:

Monitoring Results

Location ID	Location Description/GPS Coordinates	Time	VOC (ppm)	Benzene (ppm)	LEL (%)	H_2S (ppm)	Other (List)	Observations/Comments	Sampler's Initials
124-A	EDSEL + SCHLEFER	19:04	0	—	0	0	CO: 0ppm SO2: 0ppm	O2: 20.9%	KJJ
124-B	EDSEL + MIAMI	19:05	0	—	0	0	" "	"	KJJ
124-C	EDSEL + DOWNING	19:06	0	—	0	0	" "	"	KJJ
124-D	EDSEL + OMAHA	19:06	0	—	0	0	" "	"	KJJ
124-E	EDSEL + VISGER	19:07	0	—	0	0	" "	"	KJJ
124-F									

ATTENTION: Printed copies should be used with caution. The user of this document must ensure the current approved version of the document is being used. This copy was updated on 9/26/2016.

OVM BADGE SAMPLE FORM

Incident Name:	Sampler Name:	Date:
POLAR VORTEX 2019	D. PEK / A. DARZU	2/6/19

Environmental Conditions ☑ Ice ☑ Rain ☐ Snow ☐ Other _____
Temp. _____ °F Wind: FROM Direction _____ MPH 9
Barometric Pressure _____ inches Hg Relative Humidity _____ %

Employee Name Component/Contractor	ID No.	Start	Stop	Badge No.	PPE Worn	Specific Area Worked/Task
			1500	VV6173		ORMOND + HEIDT
		~~1500~~		~~VV5790~~		~~ORMOND + HEIDT~~
			1520	VV6219		LIDDESDALE + PLEASANT

ATTENTION: Printed copies should be used with caution. The user of this document must ensure the current approved version of the document is being used. This copy was updated on *9/26/2016*.

OVM BADGE SAMPLE FORM

Incident Name:	Sampler Name:	Date:
POLAR VORTEX 2019	D. PEK / A. DARZU	2/5/19

Environmental Conditions ☐ Ice ☐ Rain ☐ Snow ☑ Other OVERCAST
Temp. 36 °F Wind: Direction FROM WEST MPH 8
Barometric Pressure ____ inches Hg Relative Humidity 83 %

Employee Name Component/Contractor	ID No.	Start	Stop	Badge No.	PPE Worn	Specific Area Worked/Task
		0820	18:52	VX5974		HEIDT + ORMOND
			0820	VX6035		HEIDT + ORMOND
		0840	19:06	VX6060		PLEASANT + LIDDESDALE
			0840	VX6156		PLEASANT + LIDDESDALE
		18:49	05:40	VV6251		ORMOND + HEIDT
		19:01	05:26	VV6237		PLEASANT + LIDDESDALE
		05:06		VV5789		VALLEN
		05:20		VV6219		PLEASANT + LIDDESDALE
		05:28		VV6229		FORT + DEARBORN
		05:36		VV6173		ORMOND + HEIDT

ATTENTION: Printed copies should be used with caution. The user of this document must ensure the current approved version of the document is being used. This copy was updated on *9/26/2016*.

OVM BADGE SAMPLE FORM

Incident Name:	Sampler Name:	Date:
BPV	D. FRANCIS	2-5-19

Environmental Conditions ☐ Ice ☐ Rain ☐ Snow ☐ Other OVERCAST
Temp. 36 °F Wind: Direction NN MPH 8
Barometric Pressure 30.06 inches Hg Relative Humidity 85 %

Employee Name Component/Contractor	ID No.	Start	Stop	Badge No.	PPE Worn	Specific Area Worked/Task
Vallen		8:20	19:13	Vx6044	Routine	
Fort Dearborn		8:36	18:59	Vx6002	Routine	
FORT & DEARBORN		18:55	05:34	VV6179		
VALLEN		19:08	05:18	VV6186		VALLEN

ATTENTION: Printed copies should be used with caution. The user of this document must ensure the current approved version of the document is being used. This copy was updated on *9/26/2016*.

OVM BADGE SAMPLE FORM

Incident Name:	Sampler Name:	Date:
BPV	D. FRANCIS	2-5-19

Environmental Conditions ☐ Ice ☐ Rain ☐ Snow ☐ Other OVERCAST
Temp. 36 °F Wind: Direction NW MPH 8
Barometric Pressure 30.06 inches Hg Relative Humidity 85 %

Employee Name Component/Contractor	ID No.	Start	Stop	Badge No.	PPE Worn	Specific Area Worked/Task
Vallen		8:20	19:13	Vx6044	Routine	MRD 190020A
Fort Dearborn		8:36	18:59	Vx6062	Routine	MRD 190019A
FORT & DEARBORN		18:55	05:34	VV6179		MRD 190018A
VALLEN (MRD190017A)		19:08	05:18	VV6186		VALLEN ✓ MRD190017A

ATTENTION: Printed copies should be used with caution. The user of this document must ensure the current approved version of the document is being used. This copy was updated on *9/26/2016.*

OVM BADGE SAMPLE FORM

Incident Name:	Sampler Name:	Date:
POLAR VORTEX 2019	DOUG PEK / ADRIAN DARZU	2/4/19

Environmental Conditions ☐ Ice ☐ Rain ☐ Snow ☐ Other WET

Temp. 42 °F Wind: Direction SSE (From) MPH 4.1

Barometric Pressure ____ inches Hg Relative Humidity 84 %

Employee Name Component/Contractor	ID No.	Start	Stop	Badge No.	PPE Worn	Specific Area Worked/Task
ORMOND + HEIDT		0835	18:56	VX6010		
PLEASANT + LIDDESDALE		0850	1908	VX6050		
ORMOND + HEIDT		1854	0820	VX6035		ORMOND + HEIDT
PLEASANT + LIDESDALE		1907	0810	VX6156		PLEASANT + LIDESDALE

ATTENTION: Printed copies should be used with caution. The user of this document must ensure the current approved version of the document is being used. This copy was updated on *9/26/2016*.

~~02/06/19~~ 02/07/19 00:00

AMT FIELD DATA FORM

UltraRAE (VOC)	UltraRAE (Benzene)	Multigas/LEL 124	Other	Detector Tubes
Serial No.	Serial No.	Mfg/Model: PGM 6248	Mfg/Model:	Mfg:
Pre-Cal. Date/Time:	Pre-Cal. Date/Time:	Serial No: MCB 32124PB	Serial No:	Tube Type:
Post-Cal. Date/ Time:	Post-Cal. Date/Time:	Pre-Cal. Date/Time: 2/6/19	Pre-Cal. Date/Time:	Tube Range:
Calibration Gas Lot:	Calibration Gas Lot:	Post-Cal. Date/Time: 2/7/19	Post-Cal. Date/Time:	
	RAE-SEP Tube Batch#	Calibration Gas Lot: 20181127 01	Calibration Gas Lot:	

Incident Name:	Sampler Name:	Date:
Polar Vortex	Kelley James, Jon Mouhot	02/07/19

Monitoring For:

Equipment Used (Circle Appropriate): UltraRAE Detector Tubes Multigas/LEL Other:

Monitoring Results

Location ID	Location Description/GPS Coordinates	Time	VOC (ppm)	Benzene (ppm)	LEL (%)	H_2S (ppm)	Other (List)	Observations/Comments	Sampler's Initials
124-A	Edsel + Schaefer	00:25	0	–	0	0	CO:0ppm SO_2:0ppm	O_2:20.9%	KJJ
124-B	Edsel + Miami	00:26	0	–	0	0	" "	"	KJJ
124-C	Edsel + Downing	00:27	0	–	0	0	" "	"	KJJ
124-D	Edsel + Omaha	00:28	0	–	0	0	" "	"	KJJ
124-E	Edsel + Visger	00:29	0	–	0	0	" "	"	KJJ
124-F	Fort + Visger	00:30	0	–	0	0	" "	"	KJJ
124-G	Fisher + Visger	00:31	0	–	0	0	" "	"	KJJ
124-I	Omaha + Fisher	00:32	0	–	0	0	" "	"	KJJ
124-J	Omaha + Fort	00:33	0	–	0	0	" "	"	KJJ

ATTENTION: Printed copies should be used with caution. The user of this document must ensure the current approved version of the document is being used. This copy was updated on *9/26/2016*.

02/07/19 ~~00~~: 02:00

AMT FIELD DATA FORM

UltraRAE (VOC)	UltraRAE (Benzene)	Multigas/LEL 124	Other	Detector Tubes
Serial No.	Serial No.	Mfg/Model: PGM 6248	Mfg/Model:	Mfg:
Pre-Cal. Date/Time:	Pre-Cal. Date/Time:	Serial No: MCB3Z124PB	Serial No:	Tube Type:
Post-Cal. Date/ Time:	Post-Cal. Date/Time:	Pre-Cal. Date/Time: 2/6/19	Pre-Cal. Date/Time:	Tube Range:
Calibration Gas Lot:	Calibration Gas Lot:	Post-Cal. Date/Time: 2/7/19	Post-Cal. Date/Time:	
	RAE-SEP Tube Batch#	Calibration Gas Lot: 20181127 01	Calibration Gas Lot:	

Incident Name:	Sampler Name:	Date:
Polar Vortex	Kelley James + Jon	02/07/2019

Monitoring For:

Equipment Used (Circle Appropriate): UltraRAE Detector Tubes (Multigas/LEL) Other:

Monitoring Results

Location ID	Location Description/GPS Coordinates	Time	VOC (ppm)	Benzene (ppm)	LEL (%)	H_2S (ppm)	Other (List)	Observations/Comments	Sampler's Initials
124-A	SWABASH + DIX	02:11	0	-	0	0	CO:0ppm SO2:0ppm	O2:20.9%	KJJ
124-B	HRT FONTANA TOT LOT	02:12	0	—	0	0	" "	"	KJJ
124-C	SWABASH + RIALTO	02:13	0	—	0	0	" "	"	KJJ
124-D	RIALTO + DOWNING	02:14	0	—	0	0	" "	"	KJJ
125-E	BLOOMFIELD + MEGINNITY	02:15	0	—	0	0	" "	"	KJJ
126-F	BLOOMFIELD + DIX	02:16	0	—	0	0	" "	"	KJJ
126-G	MELVINDALE TANK	02:20	0	—	0	0	" "	"	KJJ

ATTENTION: Printed copies should be used with caution. The user of this document must ensure the current approved version of the document is being used. This copy was updated on 9/26/2016.

02/07/19 03:30

AMT FIELD DATA FORM

UltraRAE (VOC)	UltraRAE (Benzene)	Multigas/LEL 124	Other	Detector Tubes
Serial No.	Serial No.	Mfg/Model: PGM 6248	Mfg/Model:	Mfg:
Pre-Cal. Date/Time:	Pre-Cal. Date/Time:	Serial No: MCB3Z124FB	Serial No:	Tube Type:
Post-Cal. Date/ Time:	Post-Cal. Date/Time:	Pre-Cal. Date/Time: 2/6/19	Pre-Cal. Date/Time:	Tube Range:
Calibration Gas Lot:	Calibration Gas Lot:	Post-Cal. Date/Time: 2/9/19	Post-Cal. Date/Time:	
	RAE-SEP Tube Batch#	Calibration Gas Lot: 201812270	Calibration Gas Lot:	

Incident Name:	Sampler Name:	Date:
Polar Vortex	Kelley James + Jon	02/07/2019

Monitoring For:

Equipment Used (Circle Appropriate): UltraRAE Detector Tubes Multigas/LEL Other:

Monitoring Results

Location ID	Location Description/GPS Coordinates	Time	VOC (ppm)	Benzene (ppm)	LEL (%)	H_2S (ppm)	Other (List)		Observations/Comments	Sampler's Initials
124-A	DIX + WABASH	03:49	0	—	0	0	CO: 0 ppm	SO_2: 0 ppm	O_2: 20.9%	KJJ
124-B	MEGANNITY + S. WABASH	03:50	0	—	0	0	"	"	"	KJJ
124-C	Miami + RIALTO	03:51	0	—	0	0	"	"	"	KJJ
124-D	CORBIN + RIALTO	03:52	0	—	0	0	"	"	"	KJJ
124-E	MAGANNITY + BLOOMFIELD	03:53	0	—	0	0	"	"	"	KJJ
124-F	DIX + BLOOMFIELD	03:54	0	—	0	0	"	"	"	KJJ
124-G	MELVINDALE TANK	03:55	0	—	0	0	"	"	"	KJJ

ATTENTION: Printed copies should be used with caution. The user of this document must ensure the current approved version of the document is being used. This copy was updated on *9/26/2016*.

02/07/19 05:00

AMT FIELD DATA FORM

UltraRAE (VOC)	UltraRAE (Benzene)	Multigas/LEL 126	Other	Detector Tubes
Serial No.	Serial No.	Mfg/Model: PGM-6248	Mfg/Model:	Mfg:
Pre-Cal. Date/Time:	Pre-Cal. Date/Time:	Serial No: MC332 126 PB	Serial No:	Tube Type:
Post-Cal. Date/ Time:	Post-Cal. Date/Time:	Pre-Cal. Date/Time: 02/06/19	Pre-Cal. Date/Time:	Tube Range:
Calibration Gas Lot:	Calibration Gas Lot:	Post-Cal. Date/Time: 02/07/19	Post-Cal. Date/Time:	
	RAE-SEP Tube Batch#	Calibration Gas Lot: 2018122701	Calibration Gas Lot:	

Incident Name:	Sampler Name:	Date:
Polar Vortex	Kelley James, Jon	02/07/2019

Monitoring For:	Equipment Used (Circle Appropriate):			
	UltraRAE	Detector Tubes	Multigas/LEL	Other:

Monitoring Results

Location ID	Location Description/GPS Coordinates	Time	VOC (ppm)	Benzene (ppm)	LEL (%)	H_2S (ppm)	Other (List)	Observations/Comments	Sampler's Initials
126-A	Schaefer + FRANCIS	05:23	0	—	0	0	CO: 0ppm SO2: 0ppm	O2: 20.9%	KJJ
126-B	LEO + FRANCIS	05:24	0	—	0	0	" "	"	KJJ
126-C	FLORA + ROSE	05:25	0	—	0	0	" "	"	KJJ
126-D	OAKWOOD + ROSE	05:26	0	—	0	0	" "	"	KJJ
126-E	MELVINDALETAVKFARM	05:28	0	—	0	0	" "	"	KJJ

ATTENTION: Printed copies should be used with caution. The user of this document must ensure the current approved version of the document is being used. This copy was updated on *9/26/2016*.