MRD ATTENDANCE FORM

TITLE/SUBJECT: AMIT Response

DATE: 2-3-19 **TO:** 06:00pm
TIME: **TO:**

SESSION NUMBER:

COMPLEX/AREA/DEPT:

TYPE:
- ☐ Training & Development Topic
- ☐ What If
- ☐ Sequential
- ☐ Other _____
- ☐ 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	603381	Kevin Lepak	
2	880450	Kelley James	
3	269004	Ray Richardson	
4	881517	Grace Poling	
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Completed forms must be <u>promptly</u> delivered to the Training Center.

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INSTRUMENT CALIBRATION CHECK

Calibration Results must be in the following range:

LEL: ____% to ____% O_2: ____% to ____% VOC ____ppm to ____ppm

H_2S: _____ ____ ppm to ____ ppm Other: _____ ____ ppm to ____ ppm

Other: _____ ____ ppm to ____ ppm Other: _____ ____ ppm to ____ 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
23	2/2	1320	~~LEL~~ _____% ~~O_2~~ _____% ~~VOC~~ _____ ppm ____ 5.05 ppm ~~H_2S~~ _____ ppm ____ ____ ppm	D.P.	PASS
23	2/3/19	10:55	LEL ____% O_2 ____% VOC ____ ppm 82 5 ppm H_2S ____ ppm ____ ____ ppm	KL	PASS
MR 12	2/4/19	2:15 pm	LEL _____% O_2 _____% VOC _____ ppm PASS ____ ppm H_2S _____ ppm ____ ____ ppm	KL	PASS Calib.
UR 23	2/4/19	3:15	LEL _____% O_2 _____% VOC _____ ppm 82 5 ppm H_2S _____ ppm _____ ppm	KL	
UR Safety 3	2/4/19	3:14	LEL _____% O_2 _____% VOC _____ ppm 82 5 ppm H_2S _____ ppm ____ ____ ppm	KL	
			LEL _____% O_2 _____% VOC _____ ppm ____ ____ ppm H_2S _____ ppm ____ ____ ppm		
			LEL _____% O_2 _____% VOC _____ ppm ____ ____ ppm H_2S _____ ppm ____ ____ ppm		

OVM BADGE SAMPLE FORM

Incident Name:	Sampler Name:	Date:
Polar Vortex	Grace Poling	2/3/19

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

Employee Name Component/Contractor	ID No.	Start	Stop	Badge No.	PPE Worn	Specific Area Worked/Task
Grace Poling	VX6055	13:00	22:45	N/A	Fence	Ormond/~~Eleight~~ Heidt
Grace Poling	VX6057	13:16	22:58	N/A	Fence	Fort/Dearborn
Grace Poling	VX5912	13:40	22:25	N/A	Fence	Mellon/Schafer (Vallen)
Grace Poling	VX6046	14:20	23:25	N/A	Fence	Pleasant/Lidesdale
Grace Poling	VX6029	22:28	0904	N/A	Fence	Vallen
Grace Poling	VX6137	22:48	0835	N/A	Fence	Ormod/~~Height~~ Heidt
Grace Poling	VX6006	22:59	0919	N/A	Fence	Dearborn/Fort
Kelley James	VX6046	23:29	0850	N/A	Fence	Pleasant/Lidesdale

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OVM BADGE SAMPLE FORM

Incident Name:	Sampler Name:	Date:
Polar Vortex	Grace Poling	2/3/19

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

Employee Name Component/Contractor	ID No.	Start	Stop	Badge No.	PPE Worn	Specific Area Worked/Task
Grace Poling	VX6055	13:00	22:45	N/A	Fence	Ormond/ ~~Height~~ Heidt
Grace Poling	VX6057	13:16	22:58	N/A	Fence	Fort / Dearborn
Grace Poling	VX5912	13:40	22:25	N/A	Fence	Mellon/Schafer (Vallen)
Grace Poling	VX6046	14:20	23:25	N/A	Fence	Pleasant/Lidesdale
Grace Poling	VX6029	22:28		N/A	Fence	Vallen
Grace Poling	VX6137	22:48		N/A	Fence	Ormod / ~~Height~~ Heidt
Grace Poling	VX6006	22:59		N/A	Fence	Dearborn/Fort
Kelley James	VX6045	23:29		N/A	Fence	Pleasant/Lidesdale

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AMT FIELD DATA FORM

UltraRAE (VOC)	UltraRAE (Benzene)	Multigas/LEL	Other	Detector Tubes
Serial No.	Serial No.	Mfg/Model: MultiRae Pro 121	Mfg/Model:	Mfg:
Pre-Cal. Date/Time:	Pre-Cal. Date/Time:	Serial No: MB3E121PB	Serial No:	Tube Type:
Post-Cal. Date/ Time:	Post-Cal. Date/Time:	Pre-Cal. Date/Time: 2/3/19	Pre-Cal. Date/Time:	Tube Range:
Calibration Gas Lot:	Calibration Gas Lot:	Post-Cal. Date/Time: 2/4/19 6:20am	Post-Cal. Date/Time:	
	RAE-SEP Tube Batch#	Calibration Gas Lot:	Calibration Gas Lot:	

Incident Name:	Sampler Name:	Date:
Refinery Shutdown	Ray Richardson, K. Legak	2-4-19

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

Monitoring Results

~~Location~~ Unit ID	Location Description/GPS Coordinates	Time	VOC (ppm)	Benzene (ppm)	LEL (%)	H_2S (ppm)	Other (List)	Observations/Comments	Sampler's Initials
MR 121	Fordson & Oakwood	5:08am	0	—	0	0	NH_3-0, O_2-20.9	No odors	RR
	Fordson & Ormond	5:10am	0	—	0	0	NH_3-0, O_2-20.9		RR
	Fordson & Powell	5:11am	0	—	0	0	NH_3-0, O_2-20.9		RR
	Dix & Powell	5:12am	0	—	0	0	NH_3-0, O_2-20.9		RR
	13921 Mellon	5:13am	0	—	0	0	NH_3-0, O_2-20.9		RR
	Schaefer & Mellon	5:14	0	—	0	0	NH_3-0, O_2-20.9		RR
	Pleasant @ Oldoakwood	5:15	0	—	0	0	NH_3-0, O_2-20.9		RR
	Contractor Village - East	5:17	0	—	0	0	NH_3-0, O_2-20.9		RR
	NAB Hotels Gate	5:21	0	—	0	0	NH_3-0, O_2-20.9		RR

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JR#23

AMT FIELD DATA FORM

UltraRAE (VOC)	UltraRAE (Benzene)	Multigas/LEL	Other	Detector Tubes
Serial No.	Serial No. 596-5101446	Mfg/Model: MultiRae #121	Mfg/Model:	Mfg:
Pre-Cal. Date/Time:	Pre-Cal. Date/Time: 2/3/19	Serial No:	Serial No:	Tube Type:
Post-Cal. Date/ Time:	Post-Cal. Date/Time: 2/4/19	Pre-Cal. Date/Time: 2/3/19	Pre-Cal. Date/Time:	Tube Range:
Calibration Gas Lot:	Calibration Gas Lot: 200057	Post-Cal. Date/Time: 2/4/19 6:24 am	Post-Cal. Date/Time:	
	RAE-SEP Tube Batch# 012-3222-010 V04014-314	Calibration Gas Lot:	Calibration Gas Lot:	

Incident Name:	Sampler Name:	Date:
Refinery Shutdown	R. Richardson, K. Lepak	2-3-19

Monitoring For:	Equipment Used (Circle Appropriate):
Multigas	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#121	NAB Parking Lot Empl. Gate	10:10	0	—	0	0	NH_3-0, O_2-20.9%	Slight odor	RR
	NAB Employee Ness Gate	10:15	0	—	0	0	NH_3-0, O_2-20.9%	No odor	RR
	Oakwood + Fordson	10:16	0	—	0	0	NH_3-0, O_2-20.9%	No odor	RR
	Ormond + Fordson	10:17	0	—	0	0	NH_3-0, O_2-20.9%	No odor	RR
	Dix + Powell	1020	0	—	0	0	NH_3-0 O_2 20.9%	No odor	RR
	Dix + Mellon	10:23	0	—	0	0	NH_3-0, O_2-20.9%	No odor	RR
	3921 Mellon	10:24	0	—	0	0	NH_3-0, O_2-20.9%	No odor	RR
	Dix + Pleasant	10:27	0	—	0	0	NH_3-0, O_2-20.9%	Slight odor	RR
	Pleasant at old oakwood	10:28	0	—	0	0	NH_3-0, O_2-20.9%	No odor	RR
+ JR23	C&I Pre Flush + Northampton	11:20	.30	—	0	0	NH_3-0, O_2-20.9%	Odor	RR KL
+ JR23	Sulfur Rd. Tank 30	11:23	.78	0 ppm	0	0	NH_3-0, O_2-20.9%	Asphalt odor	RR KL
+ JR23	Sulfur Rd Tank	11:30	5.50	0 ppm	0	0	NH_3-0, O_2-20.9%	Asphalt odor	RR KL

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JR # 23

AMT FIELD DATA FORM

UltraRAE (VOC)	UltraRAE (Benzene)	Multigas/LEL	Other	Detector Tubes
Serial No.	Serial No. 596-901646	Mfg/Model: MR #121	Mfg/Model:	Mfg:
Pre-Cal. Date/Time:	Pre-Cal. Date/Time: 2/3/19	Serial No: MCB 3Z 121 PB 41796655	Serial No:	Tube Type:
Post-Cal. Date/ Time:	Post-Cal. Date/Time: 2/4/19	Pre-Cal. Date/Time: 2/3/19	Pre-Cal. Date/Time:	Tube Range:
Calibration Gas Lot:	Calibration Gas Lot: 200057	Post-Cal. Date/Time: 2/4/19 6:24am	Post-Cal. Date/Time:	
	BAE-SED Tube Batch# 0 U 04014-314	Calibration Gas Lot:	Calibration Gas Lot:	

Incident Name:	Sampler Name:	Date:
Refinery Shutdown	R. Richardson / K. Lepak	2-4-19

Monitoring For:	Equipment Used (Circle Appropriate):
Multigas	(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 #121	Old Oakwood at Lab	12:08 AM	0	—	0	0	NH_3-0, O_2-20.9%	Slight odor	RR
	Fordson & Oakwood	12:10 AM	0	—	0	0	NH_3-0 O_2-20.9%	No odor	RR
	Fordson & Ormond	12:11	0	—	0	0	NH_3-0, O_2-20.9%	No odor	RR
	Fordson & Powell	12:12	0	—	0	0	NH_3-0, O_2-20.9%	No odor	RR
	Dix & Powell	12:13	0	—	0	0	NH_3 0, O_2-20.9%	No odor	RR
	Dix & Melton	12:14	0	—	0	0	NH_3-0, O_2-20.9%	No odor	RR
	NAB @ Hess Entrance	12:17	0	—	0	0	NH_3-0, O_2-20.9%	No odor	RR

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AMT FIELD DATA FORM

UltraRAE (VOC)	UltraRAE (Benzene)	Multigas/LEL	Other	Detector Tubes
Serial No.	Serial No.	Mfg/Model: MRAO 121	Mfg/Model:	Mfg:
Pre-Cal. Date/Time:	Pre-Cal. Date/Time:	Serial No: MB3Z14PB	Serial No:	Tube Type:
Post-Cal. Date/ Time:	Post-Cal. Date/Time:	Pre-Cal. Date/Time: 2/3/19	Pre-Cal. Date/Time:	Tube Range:
Calibration Gas Lot:	Calibration Gas Lot:	Post-Cal. Date/Time: 2/4/19 6:30am	Post-Cal. Date/Time:	
	RAE-SEP Tube Batch#	Calibration Gas Lot:	Calibration Gas Lot:	

Incident Name:	Sampler Name:	Date:
	R. Richardson / K. Lepak	2-4-19

Monitoring For:

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

Monitoring Results

~~Location ID~~ Cat	Location Description/GPS Coordinates	Time	VOC (ppm)	Benzene (ppm)	LEL (%)	H_2S (ppm)	Other (List)	Observations/Comments	Sampler's Initials
MR 121	NAB HESS Entrance	222AM	0	—	0	0	NH_3-0, O_2-20.9	No odor	RR
	Oakwood + Forkson	2:24pm	0	—	0	0	NH_3-0, O_2-20.9	No odor	RR
	Fordson + Drmond	2:25	0	—	0	0	NH_3-0, O_2-20.9	No odor	RR
	Fordson + Powell	2:26	0	—	0	0	NH_3-0, O_2-20.9	No odor	RR
	13921 Mellon	2:28	0	—	0	0	NH_3-0, O_2-20.9	No odor	RR
	Contractor Village Emsi	2:30	0	—	0	0	NH_3-0, O_2-20.9	No odor	RR
	910 Dix	2:31	0	—	0	0	NH_3-0, O_2-20.9	No odor	RR
	Pleasant + Old Oakwood	2:33	0	—	0	0	NH_3-0, O_2-20.9	No odor	RR
	Northampton + Reflash	2:51	.030ppm	—	0	0	NH_3-0, O_2-20.9	Slight odor	RR
	Sulfur Rd Tank 31	2:53	.800ppm	0	0	0	NH_3-0, O_2-20.9	Asphalt odor	RR

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AMT FIELD DATA FORM

UltraRAE (VOC)	UltraRAE (Benzene)	Multigas/LEL 125	Other	Detector Tubes
Serial No.	Serial No.	Mfg/Model: PGM6248	Mfg/Model:	Mfg:
Pre-Cal. Date/Time:	Pre-Cal. Date/Time:	Serial No: MCB37125PB	Serial No:	Tube Type:
Post-Cal. Date/ Time:	Post-Cal. Date/Time:	Pre-Cal. Date/Time: 2/3/19 22:30	Pre-Cal. Date/Time:	Tube Range:
Calibration Gas Lot:	Calibration Gas Lot:	Post-Cal. Date/Time: 2/4/19 0558 SET	Post-Cal. Date/Time:	
	RAE-SEP Tube Batch#	Calibration Gas Lot: 1-4-19	Calibration Gas Lot:	

Incident Name:	Sampler Name:	Date:
Polar Vortex	Grace / Kelly	2/3/19

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
	Ormond / Height	22:48	0	0 N/A	0	0	CO:0 SO_2:0 O_2:20.9	No Smell	GP
	Fort / Dearborn	13:00	0	0 N/A	0	0	CO:0 SO_2:0 O_2:20.9	No Smell	GP
Vallen	Mellon / Schaefer	22:30	0	0 N/A	0	0	CO:0 SO_2:0 O_2:20.9	No Smell	GP
	Pleasant / Lidesdale	23:31	0	0 N/A	0	0	CO:0 SO_2:0 O_2:20.9	No Smell	GP
								Odor on oakwood near 1655 entrance	

2/3/19
Polar Vortex
AMT Nights

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02/04/19 AM

AMT FIELD DATA FORM

UltraRAE (VOC)	UltraRAE (Benzene)	Multigas/LEL 124	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: 2/4/19 0633	Post-Cal. Date/Time:	
	RAE-SEP Tube Batch#	Calibration Gas Lot:	Calibration Gas Lot:	

Incident Name:	Sampler Name:	Date:
Polor Vortex	Grace Poling + Kelley James	2/4/19

Monitoring For:	Equipment Used (Circle Appropriate):
VOC, LEL, H_2S, CO, SO_2, O_2	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
	Sanders/Oakwood	5:15	0	N/A	0	0	CO:Ø SO_2:Ø O_2:29.5		GP
	Cxb Entrance	5:17	0	N/A	0	0	CO:Ø SO_2:Ø O_2:29.5		GP
	Bayside/Sanders	5:18	0	N/A	0	0	CO:0 SO_2:Ø O_2:29.5		GP
	Dumfries/Sanders	5:19	0	N/A	0	0	CO:0 SO_2:0 O_2:29.5		GP
	Greyfiers/Dumfries	5:19	0	N/A	0	0	"		GP
	Dumfries/Fort	5:20	0	N/A	0	0	"		GP
	Bayside/Powell	5:21	0	N/A	0	0	"		GP
	Oakwood/Powell	5:22	0	N/A	0	0	"		GP
	Colonial/Powell	5:22	0	N/A	0	0	"		GP
	Luthor/Powell	5:23	0	N/A	0	0	"		GP
	Heidt/Powell	5:23	0	N/A	0	0	"		GP

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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: MCB32124PB	Serial No:	Tube Type:
Post-Cal. Date/ Time:	Post-Cal. Date/Time:	Pre-Cal. Date/Time: 2/3/18	Pre-Cal. Date/Time:	Tube Range:
Calibration Gas Lot:	Calibration Gas Lot:	Post-Cal. Date/Time: 2/4/19 0633	Post-Cal. Date/Time:	
	RAE-SEP Tube Batch#	Calibration Gas Lot: 7V8D21	Calibration Gas Lot:	

Incident Name:	Sampler Name:	Date:
Polar Vortex	Kelley James	2/4/18 AM

Monitoring For:	Equipment Used (Circle Appropriate):
Hydrocarbon	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	Sanders + Oakwood	0234	0	N/A	0	0	CO=0ppm SO2=0.0ppm	No odor	KJJ
124	Coker Entrance	0236	0	N/A	0	0	" "	"	KJJ
124	Dumfries + Sanders	0238	0	N/A	0	0	" "	"	KJJ
124	Dumfries + Fort	02:40	0	N/A	0	0	" "	"	KJJ
124	Powell + Bayside	02:41	0	N/A	0	0	" "	"	KJJ
124	Oakwood + Powell	02:42	0	N/A	0	0	" "	"	KJJ
124	Powell + Colonial	02:43	0	N/A	0	0	" "	"	KJJ
124	Powell + Heidt	02:44	0	N/A	0	0	" "	"	KJJ
124	Ormond + Heidt	02:45	0	N/A	0	0	" "	"	KJJ
124	Luther + Ormond	02:46	0	N/A	0	0	" "	"	KJJ
124	Fort + Oakwood	02:49	0	N/A	0	0	" "	slight ~~Hydrocarbon~~ Asphalt odor	KJJ

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02/04/19 AM

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	
124	Fort + ~~Beaubien~~ Industrial	0257	0	N/A	0	0	CO=0ppm SO_2=0.0ppm	No odor	KJJ
124	Riverside + Industrial	0253	0	N/A	0	0	" "	"	KJJ
124	Morningside + Industrial	0254	0	N/A	0	0	" "	"	KJJ
124	Berkshire + Industrial	0255	0	N/A	0	0	" "	"	KJJ
124	Dix + Industrial	0256	0	N/A	0	0	" "	"	KJJ
124	Vernor + Dix	0258	0	N/A	0	0	" "	"	KJJ
124	DTE/Michcon	0306	0	N/A	0	0	" "	"	KJJ

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AMT FIELD DATA FORM

UltraRAE (VOC)	UltraRAE (Benzene)	Multigas/LEL	Other	Detector Tubes
Serial No.	Serial No.	Mfg/Model: MultiRae Pro 124	Mfg/Model:	Mfg:
Pre-Cal. Date/Time:	Pre-Cal. Date/Time:	Serial No: 4496939 MC-B 32124 PB	Serial No:	Tube Type:
Post-Cal. Date/ Time:	Post-Cal. Date/Time:	Pre-Cal. Date/Time: 2/3/19	Pre-Cal. Date/Time:	Tube Range:
Calibration Gas Lot:	Calibration Gas Lot:	Post-Cal. Date/Time: 2-3-19 9:35PM	Post-Cal. Date/Time:	
	RAE-SEP Tube Batch#	Calibration Gas Lot: SO2 2-19 304 130-216242 Multi - 103 HPR 10M X 18	Calibration Gas Lot:	

Incident Name:	Sampler Name:	Date:
Refinery shutdown	K. James, K. Lopak	2-3-19

Monitoring For:	Equipment Used (Circle Appropriate):
Multigas	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

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
Multi Rge 124	NAB HESS Employee Entrance	2/21/19 7:15pm	0	—	0	0	SO_2-0, O_2-20.9%	No odor
	Sanders + Oakwood	7:16pm	0	—	0	0	SO_2-0 O_2-20.9%	Slight burnt odor
	Sanders + old Oakwood	7:18pm	0	—	0	0	SO_2-0 O_2-20.9%	No odor
	Old Oakwood @ Coker Gate	7:19pm	0	—	0	0	SO_2-0 O_2-20.9%	No odor
	Bayside + Sanders	7:20pm	0	—	0	0	SO_2-0 O_2-20.9%	Slight burnt odor
	Dumphries + Sanders	7:21pm	0	—	0	0	SO_2-0, O_2-20.9%	Slight odor
	Greyfriars + Sanders	7:22pm	0	—	0	0	SO_2-0 $O_2$20.9%	No odor
	Dumfries + Waring	7:24pm	0	—	0	0	SO_2-0, O_2-20.9%	No odors
	Bayside + Powell	7:26pm	0	—	0	0	SO_2-0, O_2-20.9%	No odors
	Powell + Oakwood	7:27pm	0	—	0	0	SO_2-0, O_2-20.9%	No odors
	Powell + Colonial	7:28pm	0	—	0	0	SO_2-0, O_2-20.9	No odors
	Heidt + Powell	7:29pm	0	—	0	0	SO_2-0, O_2-20.9%	No odors
	Ormond + Heidt	7:30pm	0	—	0	0	SO_2-0 O_2-20.9%	No odors
	Ormond + Colonial	7:31pm	0	—	0	0	SO_2-0 O_2-20.9%	No odors
	Denmark + Heidt	7:33pm	0	—	0	0	SO_2-0, O_2-20.9%	No odors
	Denmark + Colonial	7:34pm	0	—	0	0	SO_2-0, O_2-20.9%	No odors
	Dearborn + Fort	7:34pm	0	—	0	0	SO_2-0 O_2-20.9%	No odors
	Riverside + Industrial	7:35pm	0	—	0	0	SO_2-0, O_2-20.9%	No odors

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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
MR# 124	Industrial + Berkshire	2-8-19 7:41 pm	0	—	0	0	SO_2-0, O_2-20.9%	No odors
	Dix + Industrial	7:43 pm	0	—	0	0	SO_2-0, O_2-20.9%	No odors
	Wyoming + Dix	7:43	0	—	0	0	SO_2-0, O_2-20.9	
	Tuxedo + Wyoming	7:44	0	—	0	0	SO_2-0 O_2-20.9	
	Wyoming + Berkshire	7:45	0	—	0	0	SO_2-0, O_2-20.9	
	Wyoming + Morningside	7:46	0	—	0	0	SO_2-0, O_2-20.9	
	Wyoming + Riverside	7:46	0	—	0	0	SO_2-0, O_2-20.9	
	Riverside + Fernney	7:47	0	—	0	0	SO_2-0, O_2-20.9	
	Fort + Dearborn	7:48	0	—	0	0	SO_2-0 O_2-20.9	
	Fort + Woodmere	7:50	0	—	0	0	SO_2-0, O_2-20.9	
	Olivet + Woodmere	7:51	0	—	0	0	SO_2-0, O_2-20.9	
	Chamberlain + Woodmere	7:51	0	—	0	0	SO_2-0 O_2-20.9	
	Longworth + Woodmere	7:52	0	—	0	0	SO_2-0, O_2-20.9	
	Avis + Woodmere	7:53	0	—	0	0	SO_2-0, O_2-20.9	
	Elsmere + Woodmere	7:54	0	—	0	0	SO_2-0, O_2-20.9	
	Vernor + Woodmere	7:55	0	—	0	0	SO_2-0, O_2-20.9	
	Miller @ Worldwide Fence	7:57	0	—	0	0	SO_2-0, O_2-20.9	
	Waterfront Pet. 10271 Miller	7:58	0	—	0	0	SO_2-0, O_2-20.9	
	Miller + Fort							
	DTE/Michcon 10272 Fort	8:01 pm		—	0	0	SO_2-0 O_2-20.9	

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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
MB #124	Fort St Overpass	8:03	0	-	0	0	H2O-0, O2-20.9	No odors
	Fort + Northampton	8:05	0	-	0	0		
	Fort + Toronto	8:07	0	-	0	0		
	Fort + Schaefer	8:08	0	-	0	0		
	Schaefer @ T100	8:10	0	-	0	0		
	Schaefer + Oakwood	8:11	0	-	0	0		
	Schaefer + Mellon	8:12	0	-	0	0		

~~B~~ 21. 02/04/19 AM

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
	Ormond/Heidt	5:24	0	N/A	0	0	CO: 0 SO_2: 0 O_2 = 20.5	
	Lothor / ormond	5:24	0	N/A	0	0	"	
	Colonial / Ormond	5:25	0	N/A	0	0	"	
	Ormond / Oakwood	5:26	0	N/A	0	0	"	
	Dearborn / Fort	5:28	0	N/A	0	0	"	
	Riveside / Industrial	5:29	0	N/A	0	0	"	
	Morningside/Industrial	5:30	0	N/A	0	0	"	
	Berkshire/Industrial	5:31	0	N/A	0	0	"	
	Dix Ave/Industrial	5:31	0	N/A	0	0	"	
	Fermey / Industrial	5:32	0	N/A	0	0	"	

MRD ATTENDANCE FORM

TITLE/SUBJECT: AMT Response - Dayshift

DATE: 2/4/19 **TO:** 2/4/19
TIME: 6:00 **TO:** 7:00

SESSION NUMBER:

COMPLEX/AREA/DEPT:

TYPE:
- ☐ Training & Development Topic
- ☐ What If
- ☐ Sequential
- ☐ Other _____
- ☐ 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	779263	John Taggart	John Taggart
2	310210	Jeff Wolf	[illegible]
3	833930	Rick Newman	[illegible]
4	820230	ADRIAN DARZU	[illegible]
5	782185	Dave PEK	[illegible]
6	075879	David Francis	[illegible]
7			
8			
9		7AM-7pm	
10			Jon
11			
12			
13			
14			
15			
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Completed forms must be promptly delivered to the Training Center.

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INSTRUMENT CALIBRATION CHECK

Calibration Results must be in the following range: 0_2: 16 % to 19 % MultiRae and AreaRae Plus

LEL: 40 % to 60 % 0_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
19-CV	2-4/19	9:30	LEL 47 % 0_2 Pass % VOC 100 ppm ___ ___ppm H_2S 10 ppm CO 51 ppm	JDW	Charcoal filter on CO needs replaced
16CV	2/4/19	9:31	LEL 51 % 0_2 Pass % VOC 102 ppm ___ ___ppm H_2S 9 ppm CO 44 ppm	JDW	Charcoal filter on CO Need replaced
17	2/4/19	10:29	LEL 50 % 0_2 00 % VOC 100 ppm CO 50 ppm H_2S 10 ppm ___ ___ppm	JET	
6	2/4/19	11:01	LEL PASS % 0_2 PASS % VOC 100 ppm ___ ___ppm H_2S Pass ppm NH4 50 ppm	JDW	
4	2/4/19	12:13	LEL PASS % 0_2 PASS % VOC PASS ppm SO2 Pass ppm H_2S Pass ppm CO ___ ppm	JDW	Charcoal filter on use is Needs to be ~~E~~ replaced.
5	2/4/19	12:25	LEL PASS % 0_2 Pass % VOC ___ ppm CO Pass ppm H_2S PASS ppm ___ ___ppm	JDW	
2	2/4/19	12:27	LEL PASS % 0_2 Pass % VOC PASS ppm CO Pass ppm H_2S Pass ppm SO2 Pass ppm	JDW	

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
MRPro 124	2/4/19	0645	LEL Pass % O_2 Pass % VOC Pass ppm SO_2 Pass ppm H_2S Pass ppm ___ ___ ppm	JET	
A.R #19-CV	2/4/19	1642	LEL PASS % O_2 PASS % VOC PASS ppm CO PASS ppm H_2S PASS ppm ___ ___ ppm	D. P.	CAL'ED
MRPro 125	2/4/19	0645	LEL Pass % O_2 Pass % VOC Pass ppm SO_2 Pass ppm H_2S Pass ppm ___ ___ ppm	JET	
Ultraflare 300J #36	2/4/19	1719	LEL ___ % O_2 ___ % VOC ___ ppm ___ ___ ppm H_2S ___ ppm Benzene Pass ppm	JET	
42 AREARAE BMS	2-4-19	2244	LEL 50 % O_2 0.1 % VOC 100 ppm ~~Mgs~~ ___ ppm H_2S 10 ppm NH_3 50 ppm	J.M	
			LEL ___ % O_2 ___ % VOC ___ ppm ___ ___ ppm H_2S ___ ppm ___ ___ ppm		
			LEL ___ % O_2 ___ % VOC ___ ppm ___ ___ ppm H_2S ___ ppm ___ ___ ppm		

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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
35	2/4/19	6:05	LEL 49 % O_2 20.9 % VOC 98 ppm CO 51 ppm H_2S 10 ppm ___ ___ ppm	JDW	
2	2/4/19	6:08	LEL 48 % O_2 20.9 % VOC 100 ppm SO_2 5.1 ppm H_2S 9 ppm ___ ___ ppm	JDW	
18	2/4/18	0649	LEL 49 % O_2 0.0 % VOC 101 ppm SO_2 4.9 ppm H_2S 10 ppm ___ ___ ppm	JDW	Placed @ Health Services Bldg North Side
Ultrarae 3000 Safety 3	2/4/18		LEL ___ % O_2 ___ % VOC ___ ppm ___ ___ ppm H_2S ___ ppm Benzene Pass ppm	JET	
Ultrarae 3000 Unit 23	2/4/18		LEL ___ % O_2 ___ % VOC ___ ppm ___ ___ ppm H_2S ___ ppm Benzene Pass ppm	JET	
Ultrarae Unit 36	2/4/18		LEL ___ % O_2 ___ % VOC ___ ppm ___ ___ ppm H_2S ___ ppm Benzene Pass ppm	JET	
Area Rae 11	2/4	8:19	LEL 41 % O_2 20.9 % VOC 48 ppm SO2 4 ppm H_2S 10 ppm ___ ___ ppm	DF	

Area 38 2/4 8:25 LEL 42 VOC 98 H_2S 10 O_2 20.9 ≥0 AD

02/04/19 Days

AMT FIELD DATA FORM

UltraRAE (VOC) #12A	UltraRAE (Benzene)	Multigas/LEL #12A	Other	Detector Tubes
Serial No. 4796939	Serial No.	Mfg/Model: MultiRAE	Mfg/Model:	Mfg:
Pre-Cal. Date/Time:	Pre-Cal. Date/Time:	Serial No: 4796939	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
	Mellon & Schaeffer	8:55	BDL	BDL	BDL	BDL	O_2 20.9	No odors Detected	DF
	Fort & Dearborn	9:23	BDL	BDL	BDL	BDL	O^2 20.9	No order Detected	DF
1mile	Fort & WEST END	9:36	BDL	BDL	BDL	BDL	O_2 20.9	No odor Detected	DF
1.5m.	Fort & Watermon	9:39	BDL	BDL	BDL	BDL	O_2 20.9	No Unusual odors	DF
2.0m.	Fort - Military	9:42	BDL	BDL	BDL	BDL	O_2 20.9	No odors Detected	DF
2.5m.	Fort - Clark	9:46	BDL	BDL	BDL	BDL	O_2 20.9	No odor Detected	DF
3.0	Fort - Grand (W) Blvd	9:48	BDL	BDL	BDL	BDL	O_2 20.9	No unusual odor	DF
—	West Grand Blvd - Howard	9:52	BDL	BDL	BDL	BDL	O_2 20.9	No unusual odor	DF
	West Grand Blvd - Vernon	9:56	BDL	BDL	BDL	BDL	O_2 - 20.9	No odor Detected	DF
	Vernon - Clark Dale (Acme side)	9:58	BDL	BDL	BDL	BDL	O_2 20.9	No odor Detected	DF
	Vernon - Campbell	10:01	BDL	BDL	BDL	BDL	O_2 - 20.9 CO 6 ppm Vehicle Traffic	Slight Odor	DF

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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
	Dix & Central 42.317609 -83.127880	10:08	BDL	BDL	BDL	BDL	O_2 20.9	No ODOR Detected
	~~Dix~~ 42.316010 WATERMAN - 83.11757	10:13	BDL	BDL	BDL	BDL	O_2 20.9	No Unusual ODOR
	DIX & WATERMAN							
Repeat	Vernon & Campbell	10:18	BDL	BDL	BDL	BDL	O_2 20.9 CO-BDL	Slight ODOR
	42.316946 - 83.103933							
By Solar	North of CP TANK farm	12:05	BDL	BDL	BDL	BDL	O_2 20.9	No detectable Odor
RAE	42.283827 - 83.152589							
	ORMOND - BAYSIDE 42.288513 - 83.141672	12:25	—	BDL	BDL	BDL	O_2 20.9	No Detectable ODOR

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AMT FIELD DATA FORM

UltraRAE (VOC)	UltraRAE (Benzene)	Multigas/LEL	Other	Detector Tubes
Serial No.	Serial No.	Mfg/Model: Multi RAE	Mfg/Model:	Mfg:
Pre-Cal. Date/Time:	Pre-Cal. Date/Time:	Serial No: Unit 126	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:
PVFH	DAVID FRANCIS / RICK NEWMAN	2-4-19 - Days

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
	BAYside & Powel	12:56	BDL	BDL	BDL	BDL	20.9% O_2	No Detectable ODOR	DF
	SANDERS & GREY FRIARS	1:00	BDL	BDL	BDL	BDL	20.9% O_2	No Detectable ODOR	DF
	Woodmere & Olivett	1:06	BDL	BDL	BDL	BDL	20.9% O_2	No Detectable ODOR	DF
	Woodmere & AVIS	1:09	BDL	BDL	BDL	BDL	20.9% O_2	No Detectable ODOR	DF
	Elsmere & AVIS	1:11	BDL	BDL	BDL	BDL	20.9% O_2	No Detectable ODOR	DF
	VERNOR & WYOMING	1:18	BDL	BDL	BDL	BDL	20.9% O_2	No Detectable ODOR	DF
	Wyoming & W Wyoming	1:20	BDL	BDL	BDL	BDL	20.9% O_2	No Unusual ODOR	DF
	Millar & EAGLE PASS	1:25	BDL	BDL	BDL	BDL	20.9% O_2	No Detectable ODOR	DF
	ROTUNDA & SCHAEFFER	1:30	BDL	BDL	BDL	BDL	20.9% O_2	No Detectable ODOR	DF
	GREENFIELD & ROTUNDA	1:34	BDL	BDL	BDL	BDL	20.9% O_2	No Detectable ODOR	DF
	Forte St. 42.283316 -83.149786	2:37	BDL	BDL	BDL	BDL	20.9% O_2	No Unusual ODOR	DF

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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
	Fort & TRACTOR	2:39	BDL	BDL	BDL	BDL	20.9%	No Unusual ODOR
	Fort & N. Hampton	2:42	BDL	BDL	BDL	BDL	20.9%	No Unusual ODOR

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POLAR VORTEX 2019

AMT FIELD DATA FORM

Monitoring Results								
~~Location~~ UNIT ID	Location Description/GPS Coordinates	Time	VOC (ppm)	Benzene (ppm)	LEL (%)	H_2S (ppm)	Other (List)	Observations/Comments
38	LIDDESDALE + PLEASANT	0850	0		0	0	CO = 0 O2 = 20.9	
125	"	0855	0		0	0	CO = 0 O2 = 20.9 SO2 = 0	
38	SCHAEFER + MELON	0915	0		0	0	CO = 1 O2 = 20.9	
125	"	0915	0		0	0	CO = 0 O2 = 20.9 SO2 = 0	
38	ROMAN VILLAGE	0935	0		0	0	CO = 0 O2 = 20.9	DRIFTING – RE-BOOT / FALSE LEL ZERO
125	ROMAN VILLAGE	0935	0		0	0	CO = 0 O2 = 20.9 SO2 = 0	
38	WOODMERE + MANDALE	0948	0		3-5	0	CO = 0 O2 = 20.9	
125	"	"	0		0	0	CO = 0 O2 = 20.9 SO2 = 0	
19	BUTLER + SCHAEFER	1055	0		0	0	CO = 0 O2 = 20.9	
125	"	1055	0		0	0	CO = 0 O2 = 20.9 SO2 = 0	
19	ROTUNDA + SCHAEFER	1105	0		0	0	CO = 0 O2 = 20.9	
125	ROTUNDA + SCHAEFER	1105	0		0	0	CO = 0 O2 = 20.9 SO2 = 0	
19	RIVERSIDE + NEIAT	1130	0		0	0	CO = 0 O2 = 20.9	
125	"	"	0		0	0	CO = 0 O2 = 20.9 SO2 = 0	
19	RAUPP + SCHAEFER	1235	0		0	0	CO = 0 O2 = 20.9	
125	"	"	0		0	0	CO = 0 O2 = 20.9 SO2 = 0	
19	ROSE + DIX	1247	0		0	0	CO = 0 O2 = 20.9	
125	"	"	0		0	0	CO = 0 O2 = 20.9 SO2 = 0	

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D. PEK / A. DARZU

2/4/19

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
19	WALL + GREENFIELD	1305	0		0	0	CO=0 O2=20.9	
125	"	"	0		0	0	CO=0 O2=20.9	SO2=0
19	BUTLER RD. BETWEEN SCHAEFER + GREENFIELD	1320	0		0	0	CO=0 O2=20.9	
125		"	0		0	0	CO=0 O2=20.9	SO2=0
19	M-TEC HFCC 3601 SCHAEFER	1337	0		0	0	CO=0 O2=20.9	
125	"	"	0		0	0	CO=0 O2=20.9	SO2=0
19	1200 MILLER RD	1445	0		0	0	CO=0 O2=20.9	
125	"	"	0		0	0	CO=0 O2=20.9	SO2=0
125		1458	—		—	—		SHUT DOWN, LOW BATT
19	MILLER + DIX	1508	0		0	0	CO=0 O2=20.9	
19	M-TEC HFCC 3601 SCHAEFER	1525	0		0	0	CO=0 O2=20.9	
19	G-LOT 3691 GREENFIELD	1550	0		0	0	CO=0 O2=20.9	

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D. PEK / A. DARZU

2/4/19