



PO Box 385  
Oceanville, NJ 08231-0385  
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Fax 609.652.1140  
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# **INDOOR AIR QUALITY EVALUATION REPORT**

## **Roofing Project – Seal being applied to parapet wall and elevation of Auditorium**

### **Pinelands Regional High School**

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Pinelands Regional School District  
520 Nugentown Road  
Little Egg Harbor, NJ 08087

Survey date:  
Inspection performed by:

09/08/2017  
John Smoyer

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**Section I****Introduction**

AHERA Consultants Inc. was retained by the Pinelands Regional School District to conduct indoor air quality analysis and testing utilizing a TO-15 canister in a specified area of the Pinelands Regional High School located in Little Egg Harbor, New Jersey. This study was performed at the request of the District in response to concerns by school staff of possible indoor air quality issues associated with the summer roofing project.

**Section II****Physical Inspection**

### Existing Conditions

On September 8, 2017 I, John Smoyer, arrived at the Pinelands High School and met with Mr. Robert Sannino from New Road Construction Management. He escorted me to an area beneath the active roof work. Installation of the seal to the parapet wall and wall sheathing was ongoing.

I conducted a cursory visual inspection of the space. All appeared in order. The rear stage area has an exposed corrugated metal ceiling deck supported by steel trusses above. The roof sealant and outer wall sheathing replacement activities were being performed and observed. At the time of sampling, occupant activities to the area tested had been restricted and the buildings HVAC systems were operational.

Ambient air sampling was conducted utilizing a TO-15 canister for detection of Volatile Organic Compounds (VOC's) for compounds that may be associated with the roofing activities.

**Section III****Sampling Procedures**

- ◇ Laboratory calibrated TO-15 canisters were utilized and field verified. The following areas within the High School were tested:
  - Rear Stage of Auditorium
- ◇ The sampling media was submitted to EMSL Analytical Laboratories in Cinnaminson, NJ for analysis. Air samples were analyzed within a 3-day turnaround period.

**Section V****Interpretation of Results**

At this time, there are no governmental standards regarding Indoor Air Quality. The Occupational Safety and Health Association (OSHA) and the National Institute of Occupational Safety and Health (NIOSH), as well as other occupational health related associations, have permissible exposure levels (PELs), recommended exposure limits (RELs), or other limit values for many but not all Volatile Organic Compounds. For the purposes of this report USEPA Residential Air Generic Screening Levels were utilized since this would be a comprehensive comparison standard. (See EMSL TO-15 Report) provided herein for comparative levels. NIOSH and OSHA exposure limit comparisons are provided as well.

Under the Public Employees Occupational Safety and Health Program there is currently an indoor air quality standard for the state of New Jersey (NJAC 12:100-13). Additionally, there are recommendations under ASHRAE "The American Society of Heating, Refrigeration, and Air Conditioning Engineers for the Indoor Environment.

Under NJAC 12:100-13 a range of 68 to 79 degrees Fahrenheit is the desired temperature range to maintain with Carbon Dioxide (CO<sup>2</sup>) not exceeding 1000 ppm. If Carbon Dioxide (CO<sup>2</sup>) exceeds 1000 PPM the HVAC system should be evaluated for proper operation.

ASHRAE recommends that a relative humidity between 30% and 60% are acceptable, readings in excess of 70% is considered a friendly environment to microorganisms such as mold.

Carbon Monoxide (CO) levels based on OSHA limits long-term workplace exposure levels to 50 ppm over an 8-hour time weighted average. The Threshold Limit Value or TLV for carbon monoxide is 25 ppm.

<b>Section VI</b>	<b>Observations/Recommended Response Actions</b>
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**Overall Observations:** Results of the air testing conducted within this facility at the time of testing detected the following compounds:

Auditorium Rear Stage: *Freon12, Chloromethane, Butane, Ethanol, Isopropyl alcohol, acetone, n-Hexane, Cyclohexane, n-Heptane, Toluene, Ethylbenzene, Xylene(p,m), Xylene (ortho), 4-Ethyltoluene, 1,3,5 Trimethylbenzene, 1,2,4 Trimethylbenzene. (Possible background sources of these materials are listed in the attached laboratory report). Additionally, tentatively identified compound results indicated several unknown hydrocarbons, Methyl ester, Pentane, Hexane, Benzene, 2 Hepatnone, Nonane, Decane, undecane.*

All of the aforementioned compounds were detected at or below any NIOSH or OSHA PEL's or REL's. Additionally, all of the aforementioned compounds were detected at or below the USEPA Residential and Industrial Screening levels with the exception of Ethylbenzene (detected above Residential and Industrial Screening level) and 1,2,4 Trimethylbenzene (detected above both the Residential but below the Industrial Screening Levels). Unknown compounds as indicated in the tentatively identified compounds do not have any guidance levels.

**EMSL laboratory report(s) - (see attachments)**

**EMSL Analytical**

200 Route 130 North, Cinnaminson, NJ 08077

Phone/Fax: (856)858-4800 / (856)858-4571

<http://www.EMSL.com> [to15lab@EMSL.com](mailto:to15lab@EMSL.com)EMSL Order #: **491700917**Customer ID: **AHER50**Customer PO: **Not Available**

Attn: **John Smoyer**  
**Ahera Consultants, Inc.**  
**PO Box 385**  
**Oceanville, NJ 08231-0385**

Phone: **609-652-1833**Fax: **609-652-1140**Project: **Pinelands Regional H.S.**Date Collected: **9/8/2017**Date Received: **9/8/2017****Laboratory Report- Sample Summary**

EMSL Sample ID.	Client Sample ID.	Start Sampling Date	Start Sampling Time
491700917-0001	7284701-Stage Right	9/8/2017	12:18 PM

If "Preliminary Report" is displayed in the signature box; this indicates that there are samples that have not yet been analyzed, that are in a preliminary state, or that analysis is in progress but not completed at the time of report issue.

Report Date:  
9/13/2017

Report Revision  
R0

Revision Comments  
Initial Report

**Marjorie Howley, Laboratory Manager**  
**or other approved signatory**

**Test results meet all NELAP requirements unless otherwise specified.**

**EMSL Analytical**

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<http://www.EMSL.com> [to15lab@EMSL.com](mailto:to15lab@EMSL.com)

EMSL Order #: **491700917**  
 EMSL Sample #: **491700917-1**  
 Customer ID: **AHER50**  
 Customer PO: **Not Available**

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**Ahera Consultants, Inc.**  
**PO Box 385**  
**Oceanville, NJ 08231-0385**

Phone: **609-652-1833**  
 Fax: **609-652-1140**  
 Date Collected: **9/8/2017**  
 Date Received: **9/8/2017**

Project: **Pinelands Regional H.S.**Sample ID: **7284701-Stage Right**

Analysis	Analysis Date	Analyst Init.	Lab File ID	Canister ID	Sample Vol.	Dil. Factor
Initial	09/11/2017	KW	P0700.D	E0386	250 cc	1

**Target Compound Results Summary**

Target Compounds	CAS#	MW	Result ppbv	RL ppbv	Q	Result ug/m3	RL ug/m3	Comments
Propylene	115-07-1	42.08	ND	1.0		ND	1.7	
Freon 12(Dichlorodifluoromethane)	75-71-8	120.9	0.52	0.50		2.6	2.5	
Freon 114(1,2-Dichlorotetrafluoroethan	76-14-2	170.9	ND	0.50		ND	3.5	
Chloromethane	74-87-3	50.49	0.71	0.50		1.5	1.0	
n-Butane	106-97-8	58.12	0.70	0.50		1.7	1.2	
Vinyl chloride	75-01-4	62.50	ND	0.50		ND	1.3	
1,3-Butadiene	106-99-0	54.09	ND	0.50		ND	1.1	
Bromomethane	74-83-9	94.94	ND	0.50		ND	1.9	
Chloroethane	75-00-3	64.52	ND	0.50		ND	1.3	
Ethanol	64-17-5	46.07	5.0	0.50		9.4	0.94	
Bromoethene(Vinyl bromide)	593-60-2	106.9	ND	0.50		ND	2.2	
Freon 11(Trichlorofluoromethane)	75-69-4	137.4	ND	0.50		ND	2.8	
Isopropyl alcohol(2-Propanol)	67-63-0	60.10	2.0	0.50		4.9	1.2	
Freon 113(1,1,2-Trichlorotrifluoroethan	76-13-1	187.4	ND	0.50		ND	3.8	
Acetone	67-64-1	58.08	5.4	0.50		13	1.2	
1,1-Dichloroethene	75-35-4	96.94	ND	0.50		ND	2.0	
Acetonitrile	75-05-8	41.00	ND	0.50		ND	0.84	
Tertiary butyl alcohol(TBA)	75-65-0	74.12	ND	0.50		ND	1.5	
Bromoethane(Ethyl bromide)	74-96-4	108.0	ND	0.50		ND	2.2	
3-Chloropropene(Allyl chloride)	107-05-1	76.53	ND	0.50		ND	1.6	
Carbon disulfide	75-15-0	76.14	ND	0.50		ND	1.6	
Methylene chloride	75-09-2	84.94	ND	0.50		ND	1.7	
Acrylonitrile	107-13-1	53.00	ND	0.50		ND	1.1	
Methyl-tert-butyl ether(MTBE)	1634-04-4	88.15	ND	0.50		ND	1.8	
trans-1,2-Dichloroethene	156-60-5	96.94	ND	0.50		ND	2.0	
n-Hexane	110-54-3	86.17	28	0.50		100	1.8	
1,1-Dichloroethane	75-34-3	98.96	ND	0.50		ND	2.0	
Vinyl acetate	108-05-4	86.00	ND	0.50		ND	1.8	
2-Butanone(MEK)	78-93-3	72.10	ND	0.50		ND	1.5	
cis-1,2-Dichloroethene	156-59-2	96.94	ND	0.50		ND	2.0	
Ethyl acetate	141-78-6	88.10	ND	0.50		ND	1.8	
Chloroform	67-66-3	119.4	ND	0.50		ND	2.4	
Tetrahydrofuran	109-99-9	72.11	ND	0.50		ND	1.5	
1,1,1-Trichloroethane	71-55-6	133.4	ND	0.50		ND	2.7	
Cyclohexane	110-82-7	84.16	29	0.50		100	1.7	
2,2,4-Trimethylpentane(Isooctane)	540-84-1	114.2	ND	0.50		ND	2.3	
Carbon tetrachloride	56-23-5	153.8	ND	0.50		ND	3.1	
n-Heptane	142-82-5	100.2	0.93	0.50		3.8	2.0	
1,2-Dichloroethane	107-06-2	98.96	ND	0.50		ND	2.0	
Benzene	71-43-2	78.11	ND	0.50		ND	1.6	
Trichloroethene	79-01-6	131.4	ND	0.50		ND	2.7	
1,2-Dichloropropane	78-87-5	113.0	ND	0.50		ND	2.3	
Methyl Methacrylate	80-62-6	100.12	ND	0.50		ND	2.0	
Bromodichloromethane	75-27-4	163.8	ND	0.50		ND	3.3	
1,4-Dioxane	123-91-1	88.12	ND	0.50		ND	1.8	
4-Methyl-2-pentanone(MIBK)	108-10-1	100.2	ND	0.50		ND	2.0	

**EMSL Analytical**

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EMSL Order #: **491700917**  
 EMSL Sample #: **491700917-1**  
 Customer ID: **AHER50**  
 Customer PO: **Not Available**

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**Ahera Consultants, Inc.**  
**PO Box 385**  
**Oceanville, NJ 08231-0385**

Phone: **609-652-1833**  
 Fax: **609-652-1140**  
 Date Collected: **9/8/2017**  
 Date Received: **9/8/2017**

Project: **Pinelands Regional H.S.**

Sample ID: **7284701-Stage Right**

<u>Analysis</u>	<u>Analysis Date</u>	<u>Analyst Init.</u>	<u>Lab File ID</u>	<u>Canister ID</u>	<u>Sample Vol.</u>	<u>Dil. Factor</u>
Initial	09/11/2017	KW	P0700.D	E0386	250 cc	1

**Target Compound Results Summary**

Target Compounds	CAS#	MW	Result ppbv	RL ppbv	Q	Result ug/m3	RL ug/m3	Comments
cis-1,3-Dichloropropene	10061-01-5	111.0	ND	0.50		ND	2.3	
Toluene	108-88-3	92.14	7.5	0.50		28	1.9	
trans-1,3-Dichloropropene	10061-02-6	111.0	ND	0.50		ND	2.3	
1,1,2-Trichloroethane	79-00-5	133.4	ND	0.50		ND	2.7	
2-Hexanone(MBK)	591-78-6	100.1	ND	0.50		ND	2.0	
Tetrachloroethene	127-18-4	165.8	ND	0.50		ND	3.4	
Dibromochloromethane	124-48-1	208.3	ND	0.50		ND	4.3	
1,2-Dibromoethane	106-93-4	187.8	ND	0.50		ND	3.8	
Chlorobenzene	108-90-7	112.6	ND	0.50		ND	2.3	
Ethylbenzene	100-41-4	106.2	1.2	0.50		5.4	2.2	
Xylene (p,m)	1330-20-7	106.2	6.2	1.0		27	4.3	
Xylene (Ortho)	95-47-6	106.2	2.0	0.50		8.6	2.2	
Styrene	100-42-5	104.1	ND	0.50		ND	2.1	
Isopropylbenzene (cumene)	98-82-8	120.19	ND	0.50		ND	2.5	
Bromoform	75-25-2	252.8	ND	0.50		ND	5.2	
1,1,2,2-Tetrachloroethane	79-34-5	167.9	ND	0.50		ND	3.4	
4-Ethyltoluene	622-96-8	120.2	2.7	0.50		13	2.5	
1,3,5-Trimethylbenzene	108-67-8	120.2	1.2	0.50		5.9	2.5	
2-Chlorotoluene	95-49-8	126.6	ND	0.50		ND	2.6	
1,2,4-Trimethylbenzene	95-63-6	120.2	4.1	0.50		20	2.5	
1,3-Dichlorobenzene	541-73-1	147.0	ND	0.50		ND	3.0	
1,4-Dichlorobenzene	106-46-7	147.0	ND	0.50		ND	3.0	
Benzyl chloride	100-44-7	126.0	ND	0.50		ND	2.6	
1,2-Dichlorobenzene	95-50-1	147.0	ND	0.50		ND	3.0	
1,2,4-Trichlorobenzene	120-82-1	181.5	ND	0.50		ND	3.7	
Hexachloro-1,3-butadiene	87-68-3	260.8	ND	0.50		ND	5.3	
Naphthalene	91-20-3	128.17	ND	0.50		ND	2.6	
<b>Total Target Compound Concentrations:</b>			<b>100</b>	<b>ppbv</b>		<b>340</b>	<b>ug/m3</b>	

**Surrogate**

4-Bromofluorobenzene

Result

10

Spike

10

Recovery

100%

**Qualifier Definitions****ND = Non Detect**

B = Compound also found in method blank.

E= Estimated concentration exceeding upper calibration range.

D= Result reported from diluted analysis.

**Method Reference**

USEPA: Compendium Method TO-15, "Determination of Volatile Organic Compounds (VOCs) in Air..." Collected in Specially-Prepared Canisters and Analyzed by Gas Chromatography/Mass Spectrometry (GC/MS), January 1999, (EPA/625/R-96/010b).



NJDEP Certification #: 03036





# USEPA TO-15

## External Chain of Custody/ Field Test Data Sheet

EMSL Analytical, Inc.  
200 Route 130 North  
Cinnaminson, NJ 08077  
Ph. (800) 220-3675  
Fax (856) 786-0327

EMSL Analytical, Inc.  
LABORATORY OPERATING PROCEDURES

EMSL Order Number (Lab Use Only):

491700917

Report To Contact Name: JOHN SMOYER  
Company Name: AMERA CONSULTANTS INC  
Address 1: PO Box 385  
Address 2: OCEANVILLE NJ 08231  
Phone No.: 609.652.1835 Fax: 609.652.1140

Sampled By (Sign): *John Smoyer*  
Sampled By (Name): JOHN SMOYER  
Total # of Samples: 1  
Date Shipped: 9/8/2017  
Sample Collection Zip Code: 08087

Email Results To: AMERA@COMCAST.NET

Project Name: PANELANDS REGIONAL H.S.

Purchase Order:

Turnaround Time (in Business Days):

5 Day  
 4 Day  
 3 Day  
 2 Day  
 1 Day  
 Other

Reporting Format:  Results Only (Standard Lab Report)  
 Full Deliverables (Surcharge may apply)  
 Other

### Field Use - All Information Required

#### Sampling Start Information

Barometric Pres. ("Hg): 30.1

Start Date: 9/8/17 12:18

Time (24 hr clock): 30.0

Canister Pressure ("Hg): 73

Interior Temp. (F): 73

Stop Date: 9/8/17 15:01

Time (24 hr clock): 0.01

Canister Pressure ("Hg): 73

Interior Temp. (F): 73

Barometric Pres. ("Hg): 30.1

Stop Date: 9/8/17 15:01

Time (24 hr clock): 0.01

Canister Pressure ("Hg): 73

Interior Temp. (F): 73

Barometric Pres. ("Hg): 30.1

Stop Date: 9/8/17 15:01

Time (24 hr clock): 0.01

Canister Pressure ("Hg): 73

Interior Temp. (F): 73

#### Canister Information

Canister ID: E0386

Size (L): 6

Can Cert Batch ID: 63494-29.4

Outgoing Pressure ("Hg): 29.4

Incoming Pressure ("Hg): 29.4

Flow Controller: 798A

Cal Flow (ml/min): 43

Reg. ID: 798A

### Lab Use Only

#### Flow Controller

Cal Flow (ml/min): 43

Reg. ID: 798A

Canister ID: E0386

Size (L): 6

Can Cert Batch ID: 63494-29.4

Outgoing Pressure ("Hg): 29.4

Incoming Pressure ("Hg): 29.4

Flow Controller: 798A

Cal Flow (ml/min): 43

Reg. ID: 798A

EMSL Sample Identifier

1728401-

Analysis

Other (Specify)

LIBRARY SEARCH

USEPA TO-15

NDEP LTO-15

Matrix

Indoor/ Ambient Air

Soil Gas

Landfill Vent

Comments:

Lab Canister Certification

Analyst Signature (TO-15):

Reason for Exchange (circle appropriate)

Shipping Courier Receiving Sampling Other: *PKC*

Shipping Courier Receiving Sampling Other:

491700917

### TO-15 Sample Information

Please fill out this worksheet in addition to the Chain of Custody form. This information helps us to best analyze your samples, achieve requested TAT and provide you with helpful interpretation information.

Company: AMERA CONSULTANTS, INC.

Contact Person:

Name: JOHN SMOYER

E-mail: AMERA@COMCAST.NET

Additional E-mails:

Telephone #: 609-652-1833

Library Search requested:  YES [ ] NO

A library search (aka Tentatively Identified Compounds) will identify up to 20 of the largest, non-target peaks that are not part of the standard TO-15 list of 74 compounds. If you are performing an Indoor Air Quality or odor investigation, the library search is recommended to provide you with all available information for your sample.

Sample Type:

- Indoor Air Quality (Home/Office) [ ] Soil Gas/Sub Slab
- [ ] IAQ (Industrial)
- [ ] Other:

Sample Description: INDOOR AMBIENT AIR

PLEASE NOTE: The result forms that we provide will not indicate whether your results have exceeded any Exposure Limit criteria established by any regulatory agency. If you would like that information, please check off below which regulatory comparison forms you would like to receive.

- OSHA PELs/NIOSH RELs combined form [ ] Potential Sources of Compounds found in your IAQ sample
- EPA RSLs - 5/2016 Blended for THQ=1.0 and THQ=0.1 [ ] TVOC (Library Search Required for this format)
- [ ] NJ DEP 1/2013 - Circle one: Indoor Air Soil Gas [ ] Ohio 4/2013 - Circle one: Residential Commercial
- [ ] NC DENR 4/2014 - Circle one: Residential Non-residential [ ] Indiana Dept Env Mgmt Screening Levels 3/2016
- [ ] PA DEP - 11/2016 Indoor Air [ ] Vermont DEP IROCP 4/2012 (soil gas only)
- [ ] PA DEP- 11/2016: Sub Slab Soil Gas OR Near Source Soil Gas [ ] California OEHHA 2/2012
- [ ] CA HHSL 11/2004 - Circle on Indoor Air Soil Gas [ ] Other, These are the compounds I want reported:

Additional analyses that can be performed from your canister. Please note: there is an additional charge for any of the tests below.

- US EPA TO-3 via GC/FID (choose one below): ASTM-D5504 via GC/SCD (choose one below): <sup>π</sup>
- [ ] C<sub>1</sub>-C<sub>6</sub> hydrocarbons  Sulfur Scan (H<sub>2</sub>S, COS, MeSH, EtSH, DMS)
- [ ] Methane only [ ] H<sub>2</sub>S only

\*Note: Hold time for sulfur gases is 1 day from collection. Please schedule your sample collection so that samples are received in the lab prior to noon on Friday. Analysis performed out of hold time will have a notation in the report.

We can provide the following CMS tests from your canisters. Please note that these tests are to be used for IAQ/Screening purposes ONLY. EMSL recommends alternate field sampling techniques for these parameters (with the exception of water vapor); please contact your sales rep for the proper media. Please note: there is an additional charge for any of the tests

- Draeger CMS Analyzer:
- [ ] CO [ ] CO<sub>2</sub> [ ] NH<sub>3</sub> [ ] O<sub>2</sub> [ ] Water Vapor

Sample Retention Policy: All canisters are guaranteed to be retained for one day after results are reported. Please review your results promptly to ensure that your project scope is fully addressed. Cans may be retained for a longer period of time but arrangements to hold your cans must be made through your customer account representative quickly. Thank you.



### TO-15 Sample Information

Please fill out this worksheet in addition to the Chain of Custody form. This information helps us to best analyze your samples, achieve requested TAT and provide you with helpful interpretation information.

Company: AHERA CONSULTANTS, INC.

Contact Person:

Name: JOHN SMOYER

E-mail: AHERA@COMCAST.NET

Additional E-mails:

Telephone #: 609-652-1833

Library Search requested:

YES  NO

A library search (aka Tentatively Identified Compounds) will identify up to 20 of the largest, non-target peaks that are not part of the standard TO-15 list of 74 compounds. If you are performing an Indoor Air Quality or odor investigation, the library search is recommended to provide you with all available information for your sample.

Sample Type:

- Indoor Air Quality (Home/Office)  Soil Gas/Sub Slab
- IAQ (Industrial)
- Other:

Sample Description: INDOOR AMBIENT AIR

**PLEASE NOTE:** The result forms that we provide will not indicate whether your results have exceeded any Exposure Limit criteria established by any regulatory agency. If you would like that information, please check off below which regulatory comparison forms you would like to receive.

- OSHA PELs/NIOSH RELs *combined form*  Potential Sources of Compounds found in your IAQ sample
- EPA RSLs - 5/2016 *Blended for THQ=1.0 and THQ=0.1*  TVOC (Library Search Required for this format)
- NJ DEP 1/2013 - Circle one: Indoor Air Soil Gas  Ohio 4/2013 - Circle one: Residential Commercial
- NC DENR 4/2014 - Circle one: Residential Non-residential  Indiana Dept Env Mgmt Screening Levels 3/2016
- PA DEP - 11/2016 Indoor Air  Vermont DEP IROCP 4/2012 (soil gas only)
- PA DEP- 11/2018: Sub Slab Soil Gas OR Near Source Soil Gas  California OEHHA 2/2012
- CA HHSL 11/2004 - Circle on Indoor Air Soil Gas  Other, These are the compounds I want reported:

Additional analyses that can be performed from your canister. Please note: there is an additional charge for any of the tests below.

- US EPA TO-3 *via GC/FID* (choose one below): ASTM-D5504 *via GC/SCD* (choose one below): \*
- C<sub>1</sub>-C<sub>6</sub> hydrocarbons  Sulfur Scan (H<sub>2</sub>S, COS, MeSH, EtSH, DMS)
- Methane only  H<sub>2</sub>S only

**\*Note:** Hold time for sulfur gases is 1 day from collection. Please schedule your sample collection so that samples are received in the lab prior to noon on Friday. Analysis performed out of hold time will have a notation in the report.

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- Draeger CMS Analyzer:
- CO  CO<sub>2</sub>  NH<sub>3</sub>  O<sub>2</sub>  Water Vapor

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