



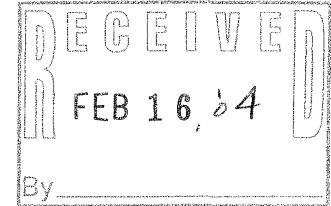
Integrated
Environmental
Solutions

FID#
246009170
ERP#7

744 Heartland Trail 53717-1934
P.O. Box 8923 53708-8923
Madison, WI
Telephone: 608-831-4444
Fax: 608-831-3334

February 10, 2004

Mr. John Feeney
Wisconsin Department of Natural Resources
1155 Pilgrim Road
Plymouth, WI 53073



**Subject: Vapor Pathway Assessment Results – Tecumseh Products Company
Grafton, Wisconsin, Facility (WDNR FID# 24-6009170, BRRTS# 02-46-000751)**

Dear Mr. Feeney:

A vapor assessment was performed by RMT downgradient of the above-referenced facility on November 11, 2003. The assessment was completed in accordance with our October 24, 2003, submittal that was subsequently approved by the Wisconsin Department of Natural Resources (WDNR) on 29 October 2003.

The soil vapor sample was collected at the proposed location approximately 500 feet downgradient of the loading dock area at Tecumseh Products Company. A direct-push soil boring (SV-1) was advanced to approximately 15 feet below the ground surface (bgs). The water table was encountered at 12.2 bgs in the silty sand outwash. See Attachment 1 for soil boring logs and boring abandonment forms. A small-diameter PVC well was placed in the borehole at a depth of 15.4 feet, and approximately 3 gallons of groundwater were purged at approximately 500 cc/min with a peristaltic pump and dedicated tubing. After the well had been purged and the turbidity of the purge water had subsided, a groundwater sample was collected for VOC analysis. Analytical results for the groundwater sample found no detectable VOC concentrations (all chloroethene detection limits were less than 1 µg/L). See Attachment 2 for complete groundwater results.

An adjacent direct-push soil boring (SV-1A) was advanced to 12 feet bgs, where the well screen was exposed (from approximately 8 to 12 feet bgs). The well screen and casing were purged with a landfill gas sampling meter. The purged gas was screened for methane, carbon dioxide, and oxygen using the landfill gas meter, and for organic vapors using a PID. When the landfill gas meter indicated that the purged gas concentrations had stabilized, a soil vapor sample was collected into a Summa canister. Field readings indicated no volatile compounds or methane in the soil vapors, and analytical results for the soil vapor sample (SV-1) and the field blank had no detectable concentrations at limits of 13 to 80 µg/m³. With the exception of chloroethene, the concentrations of all the chlorinated VOCs were well below the Table 2C screen values for soil gas presented by the USEPA (Draft Guidance for Evaluating Vapor Intrusion, November 2002). The detection limit for chloroethene (13 µg/m³) is between the 2.8 µg/m³ screen level at a 0.1 attenuation factor and the 28 µg/m³ at the 0.01 attenuation factor. However, the chloroethene concentration at the water table was less than 0.18 µg/L, or at least 10 times less than the Table 2C groundwater concentration, making

Looks good.
JF - 2/23/04

Mr. John Feeney
Wisconsin Department of Natural Resources
February 10, 2004
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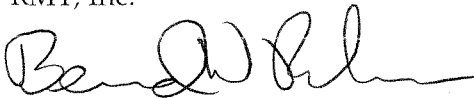
it likely that soil gas concentration was well below the screening level. See Attachment 3 for complete vapor results.

The groundwater results for the July 2003 and January 2004 sampling events show trichloroethene concentrations at the facility property line of 120 to 2,400 µg/L and downgradient concentrations as high as 300 µg/L. These results suggest that the plume of impacted groundwater observed downgradient of the Tecumseh facility has sunk below the water table surface approximately 500 feet further downgradient. This isolates the dissolved VOC plume from the unsaturated zone. The lack of volatile impacts at the water table and the soil vapor samples completed as part of this assessment indicate that volatile gases are unlikely to be generated at concentrations of concern downgradient of the source area and the vapor pathway is not of concern at the Tecumseh facility.

Please contact me, at (608) 662-5708, or at bernd.rehm@rmtinc.com, if you have any questions.

Sincerely,

RMT, Inc.



Bernd W. Rehm, P.G., C.P.G.
Senior Consultant

Attachments:

- Attachment 1: Boring Logs and Boring Abandonment Forms for SV-1/SV-1A
- Attachment 2: SV-1 Groundwater Sample Results
- Attachment 3: SV-1 Vapor Sample Results

cc: C. Warzecha, WDHFS
B. Shah, Tecumseh Products
H. Handzel, DeWitt, Ross & Stevens

Attachment 1

Boring Logs and Boring Abandonment Forms for SV-1/SV-1A

Route To: Watershed/Wastewater Waste Management
Remediation/Redevelopment Other

Facility/Project Name Tecumseh Products		License/Permit/Monitoring Number		Boring Number SV-1	
Boring Drilled By: Name of crew chief (first, last) and Firm Tony Kapugi Onsite Environmental		Date Drilling Started 11/11/2003		Date Drilling Completed 11/11/2003	
Drilling Method Direct Push		WI Unique Well No.		DNR Well ID No.	
Common Well Name		Final Static Water Level Feet MSL		Surface Elevation Feet MSL	
Borehole Diameter 2.0 inches		Local Grid Origin <input type="checkbox"/> (estimated: <input type="checkbox"/>) or Boring Location <input checked="" type="checkbox"/> State Plane N, E S/C/N		Local Grid Location <input type="checkbox"/> N <input type="checkbox"/> E <input type="checkbox"/> S <input type="checkbox"/> W	
1/4 of Section T N, R		Lat _____"		Long _____"	
Facility ID 246009170		County Ozaukee		County Code 46	
Civil Town/City/ or Village Grafton					

Sample Number and Type	Length Att. & Recovered (in)	Blow Counts	Depth In Feet	Soil/Rock Description And Geologic Origin For Each Major Unit	USCS	Graphic Log	Well Diagram	PID/FID	Soil Properties					RQD/ Comments
									Compressive Strength	Moisture Content	Liquid Limit	Plasticity Index	P 200	
A			1	LEAN CLAY (CL), 85% fines, 10% sand, trace gravel, plastic, dark brown to yellowish brown, moist, fractured. (Till)	CL									
			2											
			3											
			4											
			5											
			6											
			7											
			8											
			9											
B			10	SILTY SAND (SM), 70% fine to medium sand, 30% fines, light brown, moist to wet.	SM									Water sample from 12.2-15.4, collected at 16.45.
			11											
			12											
			13											
			14											
			15											
			End of boring at 15 feet.											

I hereby certify that the information on this form is true and correct to the best of my knowledge.

Signature 	Firm RMT, Inc. 744 Heartland Trail Madison, WI 53717	Tel: 608.831.4444 Fax: 608.831.3334
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This form is authorized by Chapters 281, 283, 289, 291, 292, 293, 295, and 299, Wis. Stats. Completion of this form is mandatory. Failure to file this form may result in forfeiture of between \$10 and \$25,000, or imprisonment for up to one year, depending on the program and conduct involved. Personally identifiable information on this form is not intended to be used for any other purpose. NOTE: See instructions for more information, including where the completed form should be sent.

WDNR_SBL_98 03084W.GPJ WI_DNR98.GDT 12/8/03

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Route To: Watershed/Wastewater Waste Management
Remediation/Redevelopment Other

Facility/Project Name Tecumseh Products		License/Permit/Monitoring Number		Boring Number SV-1A	
Boring Drilled By: Name of crew chief (first, last) and Firm Tony Kapugi Onsite Environmental		Date Drilling Started 11/11/2003		Date Drilling Completed 11/11/2003	
Drilling Method Direct Push		WI Unique Well No.		DNR Well ID No.	
Common Well Name		Final Static Water Level Feet MSL		Surface Elevation Feet MSL	
Borehole Diameter 2.0 inches		Local Grid Origin <input type="checkbox"/> (estimated: <input type="checkbox"/>) or Boring Location <input checked="" type="checkbox"/> State Plane N, E S/C/N		Local Grid Location <input type="checkbox"/> N <input type="checkbox"/> E <input type="checkbox"/> S <input type="checkbox"/> W	
1/4 of 1/4 of Section , T N, R		Lat ° ' "		Long ° ' "	
Facility ID 246009170		County Ozaukee		County Code 46	
Civil Town/City/ or Village Grafton					

Sample Number and Type	Length Att. & Recovered (in)	Blow Counts	Depth in Feet	Soil/Rock Description And Geologic Origin For Each Major Unit	USCS	Graphic Log	Well Diagram	PID/FID	Soil Properties					RQD/ Comments	
									Compressive Strength	Moisture Content	Liquid Limit	Plasticity Index	P 200		
			1	Blind drilled to 12 feet. See log of SV-1 for soil description.											
			2												
			3												
			4												
			5												
			6												
			7												
			8												
			9												
			10												
			11												
			12		End of boring at 12 feet.										

Boring used to collect vapor sample at 16:50.
Screened at 7.8-11.8 feet.

I hereby certify that the information on this form is true and correct to the best of my knowledge.

Signature <i>PK Ma</i>	Firm RMT, Inc. 744 Heartland Trail Madison, WI 53717	Tel: 608.831.4444 Fax: 608.831.3334
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This form is authorized by Chapters 281, 283, 289, 291, 292, 293, 295, and 299, Wis. Stats. Completion of this form is mandatory. Failure to file this form may result in forfeiture of between \$10 and \$25,000, or imprisonment for up to one year, depending on the program and conduct involved. Personally identifiable information on this form is not intended to be used for any other purpose. NOTE: See instructions for more information, including where the completed form should be sent.

WDNR_SBL_98 03084W/GPJ WI_DNR98.GDT 12/8/03

Notice: Please complete Form 3300-5 and return it to the appropriate DNR office and bureau. Completion of this report is required by chs. 160, 281, 283, 289, 291, 292, 293, 295, and 299, Wis. Stats., and ch. NR 141, Wis. Adm. Code. In accordance with chs. 281, 289, 291, 292, 293, 295, and 299, Wis. Stats., failure to file this form may result in a forfeiture of between \$10 and \$25,000, or imprisonment for up to one year, depending on the program and conduct involved. Personally identifiable information on this form is not intended to be used for any other purpose. NOTE: See the instructions for more information.

Route to: Drinking Water Watershed/Wastewater Waste Management Remediation/Redevelopment Other:

(1) GENERAL INFORMATION			(2) FACILITY/OWNER INFORMATION		
WI Unique Well No.	DNR Well ID No.	County <u>Ozaukee</u>	Facility Name <u>Tecumseh Products Corp (TPC)</u>		
Common Well Name <u>SV-1A</u>		Gov't Lot (If applicable) <input type="checkbox"/> E <input type="checkbox"/> W	Facility ID <u>24-6009170</u>	License/Permit/Monitoring No.	
1/4 of 1/4 of Sec. _____; T. _____ N; R. _____		Grid Location _____ ft <input type="checkbox"/> N. <input type="checkbox"/> S., _____ ft. <input type="checkbox"/> E. <input type="checkbox"/> W.	Street Address of Well <u>925 Green Bay Ave</u>		
Local Grid Origin <input type="checkbox"/> (estimated) <input type="checkbox"/> or Well Location <input type="checkbox"/>		Lat. _____ " Long _____ " or S C N	City, Village, or Town <u>Gratton</u>		
St. Plan _____ ft. N. _____ ft. E. <input type="checkbox"/> <input type="checkbox"/> Zone			Present Well Owner <u>TPC</u>	Original Owner <u>SAME</u>	
Reason for Abandonment <u>Sampling completed</u>		WI Unique Well No. of Replacement Well <u>NA</u>	Street Address or Route of Owner <u>900 North St.</u>		
			City, State, Zip Code <u>Gratton, WI</u>		

(3) WELL/DRILLHOLE/BOREHOLE INFORMATION		(4) PUMP, LINER, SCREEN, CASING, & SEALING MATERIAL			
Original Construction Date <u>11/11/03</u>		Pump & Piping Removed? <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> Not Applicable Liner(s) Removed? <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> Not Applicable Screen Removed? <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> Not Applicable Casing Left in Place? <input type="checkbox"/> Yes <input type="checkbox"/> No			
<input type="checkbox"/> Monitoring Well <input type="checkbox"/> Water Well <input checked="" type="checkbox"/> Borehole/Drillhole		If a Well Construction Report is available, please attach.			
Construction Type: <input type="checkbox"/> Drilled <input checked="" type="checkbox"/> Driven (Sandpoint) <input type="checkbox"/> Dug <input type="checkbox"/> Other (Specify) _____		Was Casing Cut Off Below Surface? <input type="checkbox"/> Yes <input type="checkbox"/> No Did Sealing Material Rise to Surface? <input type="checkbox"/> Yes <input type="checkbox"/> No Did Material Settle After 24 Hours? <input type="checkbox"/> Yes <input type="checkbox"/> No If Yes, Was Hole Retopped? <input type="checkbox"/> Yes <input type="checkbox"/> No			
Formation Type: <input checked="" type="checkbox"/> Unconsolidated Formation <input type="checkbox"/> Bedrock		Required Method of Placing Sealing Material <input checked="" type="checkbox"/> Conductor Pipe-Gravity <input type="checkbox"/> Conductor Pipe-Pumped <input type="checkbox"/> Screened & Poured <input type="checkbox"/> Other (Explain)			
Total Well Depth (ft.) <u>12</u> (From ground surface)		Casing Diameter (in.) <u>NA</u>		Sealing Materials	
Lower Drillhole Diameter (in.) <u>1"</u>		Casing Depth (ft.) _____		<input type="checkbox"/> Neat Cement Grout <input type="checkbox"/> Sand-Cement (Concrete) Grout <input type="checkbox"/> Concrete <input type="checkbox"/> Clay-Sand Slurry (11 lb./gal. wt.) <input type="checkbox"/> Bentonite - Sand Slurry (11 lb./gal. wt.) <input type="checkbox"/> Bentonite Chips	
Was Well Annular Space Grouted? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> Unknown If Yes, To What Depth? _____ Feet		For monitoring wells and monitoring well boreholes only <input type="checkbox"/> Bentonite Chips <input checked="" type="checkbox"/> Granular Bentonite <input type="checkbox"/> Bentonite - Cement Grout <input type="checkbox"/> Bentonite - Sand Slurry			
Depth to Water (Feet) _____					

(5) Material Used to Fill Well/Drillhole	From (Ft.)	To (Ft.)	No. Yards, Sacks Sealant or Volume	(Circle One)	Mix Ratio or Mud Weight
<u>Granular Bentonite</u>	<u>Surface</u>	<u>12</u>	<u>10 lbs</u>		

(6) Comments: _____

(7) Name of Person or Firm Doing Sealing Work <u>Tony Kopyg</u>		Date of Abandonment <u>11/11/03</u>
Signature of Person Doing Work <u>[Signature]</u>		Date Signed <u>11/11/03</u>
Street or Route <u>744 Hartland Tr</u>	Telephone Number <u>(608) 831 4444</u>	
City, State, Zip Code <u>Madison WI 53717</u>		

FOR DNR OR COUNTY USE ONLY	
Date Received	Noted By
Comments	

Notice: Please complete Form 3300-5 and return it to the appropriate DNR office and bureau. Completion of this report is required by chs. 160, 281, 283, 289, 291, 292, 293, 295, and 299, Wis. Stats., and ch. NR 141, Wis. Adm. Code. In accordance with chs. 281, 289, 291, 292, 293, 295, and 299, Wis. Stats., failure to file this form may result in a forfeiture of between \$10 and \$25,000, or imprisonment for up to one year, depending on the program and conduct involved. Personally identifiable information on this form is not intended to be used for any other purpose. NOTE: See the instructions for more information.

Route to: Drinking Water Watershed/Wastewater Waste Management Remediation/Redevelopment Other:

(1) GENERAL INFORMATION		(2) FACILITY/OWNER INFORMATION	
WI Unique Well No.	DNR Well ID No.	County	Facility Name
		Ozaukee	Tecumseh Products Corp (TPC)
Common Well Name <u>SV-1</u> Gov't Lot (If applicable)		Facility ID	License/Permit/Monitoring No.
		24-6009170	
1/4 of 1/4 of Sec. ; T. N; R.		Street Address of Well	
<input type="checkbox"/> E <input type="checkbox"/> W		925 Green Bay Ave	
Grid Location		City, Village, or Town	
ft. <input type="checkbox"/> N. <input type="checkbox"/> S., ft. <input type="checkbox"/> E. <input type="checkbox"/> W.		Grafton	
Local Grid Origin <input type="checkbox"/> (estimated: <input type="checkbox"/>) or Well Location <input type="checkbox"/>		Present Well Owner	Original Owner
Lat. " Long. " or		TPC	SAME
St. Plan ft. N. ft. E. <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> Zone		Street Address or Route of Owner	
		900 North St.	
Reason for Abandonment	WI Unique Well No.	City, State, Zip Code	
Sampling completed	of Replacement Well NA	Grafton, WI	

(3) WELL/DRILLHOLE/BOREHOLE INFORMATION		(4) PUMP, LINER, SCREEN, CASING, & SEALING MATERIAL	
Original Construction Date <u>11/11/03</u>	If a Well Construction Report is available, please attach.	Pump & Piping Removed?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> Not Applicable
<input type="checkbox"/> Monitoring Well <input type="checkbox"/> Water Well <input checked="" type="checkbox"/> Borehole/Drillhole		Liner(s) Removed?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> Not Applicable
Construction Type:		Screen Removed?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> Not Applicable
<input type="checkbox"/> Drilled <input checked="" type="checkbox"/> Driven (Sandpoint) <input type="checkbox"/> Dug		Casing Left in Place?	<input type="checkbox"/> Yes <input type="checkbox"/> No
Formation Type:		Was Casing Cut Off Below Surface?	<input type="checkbox"/> Yes <input type="checkbox"/> No
<input checked="" type="checkbox"/> Unconsolidated Formation <input type="checkbox"/> Bedrock		Did Sealing Material Rise to Surface?	<input type="checkbox"/> Yes <input type="checkbox"/> No
Total Well Depth (ft.) <u>15.4</u> Casing Diameter (in.) <u>1</u>		Did Material Settle After 24 Hours?	<input type="checkbox"/> Yes <input type="checkbox"/> No
(From ground surface) Casing Depth (ft.) <u>15.4</u>		If Yes, Was Hole Retopped?	<input type="checkbox"/> Yes <input type="checkbox"/> No
Lower Drillhole Diameter (in.) <u>2"</u>		Required Method of Placing Sealing Material	
Was Well Annular Space Grouted? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> Unknown		<input checked="" type="checkbox"/> Conductor Pipe-Gravity <input type="checkbox"/> Conductor Pipe-Pumped	
If Yes, To What Depth? Feet		<input type="checkbox"/> Screened & Poured <input type="checkbox"/> Other (Explain)	
Depth to Water (Feet) <u>12.2</u>		Sealing Materials	For monitoring wells and monitoring well boreholes only
		<input type="checkbox"/> Neat Cement Grout <input type="checkbox"/> Sand-Cement (Concrete) Grout <input type="checkbox"/> Concrete <input type="checkbox"/> Clay-Sand Slurry (11 lb./gal. wt.) <input type="checkbox"/> Bentonite - Sand Slurry (11 lb./gal. wt.) <input type="checkbox"/> Bentonite Chips	<input type="checkbox"/> Bentonite Chips <input checked="" type="checkbox"/> Granulite Bentonite <input type="checkbox"/> Bentonite - Cement Grout <input type="checkbox"/> Bentonite - Sand Slurry

(5)	Material Used to Fill Well/Drillhole	From (Ft.)	To (Ft.)	No. Yards, Sacks Sealant or Volume	(Circle One)	Mix Ratio or Mud Weight
	Granular Bentonite	Surface	15.4	10 lbs		

(6) Comments:

(7) Name of Person or Firm Doing Sealing Work		Date of Abandonment	
Tony Kapugi		11/11/03	
Signature of Person Doing Work		Date Signed	
<i>[Signature]</i>		11/11/03	
Street or Route		Telephone Number	
744 Herzog Dr		(608) 811-4444	
City, State, Zip Code			
Madison WI 53717			

FOR DNR OR COUNTY USE ONLY	
Date Received	Noted By
Comments	

4/4

Attachment 2
SV-1 Groundwater Sample Results



Corporate Office & Laboratory
1241 Bellevue Street, Suite 9, Green Bay, WI 54302
920-469-2436, 800-7-ENCHEM, Fax: 920-469-8827
www.enchem.com

Analytical Report Number: 841026

Client : RMT - MADISON

Project Name : TPC

Project Number : 3084.20

Lab Sample Number	Field ID	Matrix	Collection Date
841026-001	SV-1	WATER	11/11/03
841026-002	TRIP BLANK	WATER	11/11/03

I certify that the data contained in this Final Report has been generated and reviewed in accordance with approved methods and Laboratory Standard Operating Procedure. Exceptions, if any, are discussed in the accompanying sample comments. Release of this final report is authorized by Laboratory management, as is verified by the following signature. Reported results shall not be reproduced, except in full, without the written approval of the lab. The sample results relate only to the analytes of interest tested.


Approval Signature

11/19/03
Date

Client : RMT - MADISON

Matrix Type : WATER

Project Name : TPC

Collection Date : 11/11/03

Project Number : 3084.20

Report Date : 11/18/03

Field ID : SV-1

Lab Sample Number : 841026-001

VOLATILES - SPECIAL LIST

Prep Date: 11/17/03

Analyte	Result	LOD	LOQ	EQL	Dil.	Units	Code	Anl Date	Prep Method	Anl Method
1,1,1-Trichloroethane	< 0.90	0.90	3.0		1	ug/L		11/17/03	SW846 5030B	SW846 8260B
1,1,2,2-Tetrachloroethane	< 0.20	0.20	0.67		1	ug/L		11/17/03	SW846 5030B	SW846 8260B
1,1,2-Trichloroethane	< 0.42	0.42	1.4		1	ug/L		11/17/03	SW846 5030B	SW846 8260B
1,1-Dichloroethane	< 0.75	0.75	2.5		1	ug/L		11/17/03	SW846 5030B	SW846 8260B
1,1-Dichloroethene	< 0.57	0.57	1.9		1	ug/L		11/17/03	SW846 5030B	SW846 8260B
1,2,3-Trichlorobenzene	< 0.74	0.74	2.5		1	ug/L		11/17/03	SW846 5030B	SW846 8260B
1,2,4-Trichlorobenzene	< 0.97	0.97	3.2		1	ug/L		11/17/03	SW846 5030B	SW846 8260B
1,2,4-Trimethylbenzene	< 0.97	0.97	3.2		1	ug/L		11/17/03	SW846 5030B	SW846 8260B
1,2-Dibromo-3-chloropropane	< 0.87	0.87	2.9		1	ug/L		11/17/03	SW846 5030B	SW846 8260B
1,2-Dibromoethane	< 0.56	0.56	1.9		1	ug/L		11/17/03	SW846 5030B	SW846 8260B
1,2-Dichlorobenzene	< 0.83	0.83	2.8		1	ug/L		11/17/03	SW846 5030B	SW846 8260B
1,2-Dichloroethane	< 0.36	0.36	1.2		1	ug/L		11/17/03	SW846 5030B	SW846 8260B
1,2-Dichloropropane	< 0.46	0.46	1.5		1	ug/L		11/17/03	SW846 5030B	SW846 8260B
1,3,5-Trimethylbenzene	< 0.83	0.83	2.8		1	ug/L		11/17/03	SW846 5030B	SW846 8260B
1,3-Dichlorobenzene	< 0.87	0.87	2.9		1	ug/L		11/17/03	SW846 5030B	SW846 8260B
1,3-Dichloropropane	< 0.61	0.61	2.0		1	ug/L		11/17/03	SW846 5030B	SW846 8260B
1,4-Dichlorobenzene	< 0.95	0.95	3.2		1	ug/L		11/17/03	SW846 5030B	SW846 8260B
2,2-Dichloropropane	< 0.62	0.62	2.1		1	ug/L		11/17/03	SW846 5030B	SW846 8260B
2-Chlorotoluene	< 0.85	0.85	2.8		1	ug/L		11/17/03	SW846 5030B	SW846 8260B
4-Chlorotoluene	< 0.74	0.74	2.5		1	ug/L		11/17/03	SW846 5030B	SW846 8260B
Benzene	< 0.41	0.41	1.4		1	ug/L		11/17/03	SW846 5030B	SW846 8260B
Bromobenzene	< 0.82	0.82	2.7		1	ug/L		11/17/03	SW846 5030B	SW846 8260B
Bromodichloromethane	< 0.56	0.56	1.9		1	ug/L		11/17/03	SW846 5030B	SW846 8260B
Carbon Tetrachloride	< 0.49	0.49	1.6		1	ug/L		11/17/03	SW846 5030B	SW846 8260B
Chlorobenzene	< 0.41	0.41	1.4		1	ug/L		11/17/03	SW846 5030B	SW846 8260B
Chlorodibromomethane	< 0.81	0.81	2.7		1	ug/L		11/17/03	SW846 5030B	SW846 8260B
Chloroethane	< 0.97	0.97	3.2		1	ug/L		11/17/03	SW846 5030B	SW846 8260B
Chloroform	< 0.37	0.37	1.2		1	ug/L		11/17/03	SW846 5030B	SW846 8260B
Chloromethane	< 0.24	0.24	0.80		1	ug/L		11/17/03	SW846 5030B	SW846 8260B
cis-1,2-Dichloroethene	< 0.83	0.83	2.8		1	ug/L		11/17/03	SW846 5030B	SW846 8260B
Dichlorodifluoromethane	< 0.99	0.99	3.3		1	ug/L		11/17/03	SW846 5030B	SW846 8260B
Diisopropyl Ether	< 0.76	0.76	2.5		1	ug/L		11/17/03	SW846 5030B	SW846 8260B
Ethylbenzene	< 0.54	0.54	1.8		1	ug/L		11/17/03	SW846 5030B	SW846 8260B
Fluorotrichloromethane	< 0.79	0.79	2.6		1	ug/L		11/17/03	SW846 5030B	SW846 8260B
Hexachlorobutadiene	< 0.67	0.67	2.2		1	ug/L		11/17/03	SW846 5030B	SW846 8260B
Isopropylbenzene	< 0.59	0.59	2.0		1	ug/L		11/17/03	SW846 5030B	SW846 8260B
Methylene Chloride	< 0.43	0.43	1.4		1	ug/L		11/17/03	SW846 5030B	SW846 8260B
Methyl-tert-butyl-ether	< 0.61	0.61	2.0		1	ug/L		11/17/03	SW846 5030B	SW846 8260B
Naphthalene	< 0.74	0.74	2.5		1	ug/L		11/17/03	SW846 5030B	SW846 8260B
n-Butylbenzene	< 0.93	0.93	3.1		1	ug/L		11/17/03	SW846 5030B	SW846 8260B
n-Propylbenzene	< 0.81	0.81	2.7		1	ug/L		11/17/03	SW846 5030B	SW846 8260B
p-Isopropyltoluene	< 0.67	0.67	2.2		1	ug/L		11/17/03	SW846 5030B	SW846 8260B
sec-Butylbenzene	< 0.89	0.89	3.0		1	ug/L		11/17/03	SW846 5030B	SW846 8260B
tert-Butylbenzene	< 0.97	0.97	3.2		1	ug/L		11/17/03	SW846 5030B	SW846 8260B
Tetrachloroethene	< 0.45	0.45	1.5		1	ug/L		11/17/03	SW846 5030B	SW846 8260B
Toluene	< 0.67	0.67	2.2		1	ug/L		11/17/03	SW846 5030B	SW846 8260B
trans-1,2-Dichloroethene	< 0.89	0.89	3.0		1	ug/L		11/17/03	SW846 5030B	SW846 8260B
Trichloroethene	< 0.48	0.48	1.6		1	ug/L		11/17/03	SW846 5030B	SW846 8260B
Vinyl Chloride	< 0.18	0.18	0.60		1	ug/L		11/17/03	SW846 5030B	SW846 8260B

Client : RMT - MADISON
Project Name : TPC
Project Number : 3084.20
Field ID : SV-1

Matrix Type : WATER
Collection Date : 11/11/03
Report Date : 11/18/03
Lab Sample Number : 841026-001

VOLATILES - SPECIAL LIST

Prep Date: 11/17/03

Analyte	Result	LOD	LOQ	EQL	Dil.	Units	Code	Anl Date	Prep Method	Anl Method
Xylene, o	< 0.83	0.83	2.8		1	ug/L		11/17/03	SW846 5030B	SW846 8260B
Xylenes, m + p	< 1.8	1.8	6.0		1	ug/L		11/17/03	SW846 5030B	SW846 8260B

Client : RMT - MADISON

Matrix Type : WATER

Project Name : TPC

Collection Date : 11/11/03

Project Number : 3084.20

Report Date : 11/18/03

Field ID : TRIP BLANK

Lab Sample Number : 841026-002

VOLATILES - SPECIAL LIST

Prep Date: 11/17/03

Analyte	Result	LOD	LOQ	EQL	Dil.	Units	Code	Anl Date	Prep Method	Anl Method
1,1,1-Trichloroethane	< 0.90	0.90	3.0		1	ug/L		11/17/03	SW846 5030B	SW846 8260B
1,1,2,2-Tetrachloroethane	< 0.20	0.20	0.67		1	ug/L		11/17/03	SW846 5030B	SW846 8260B
1,1,2-Trichloroethane	< 0.42	0.42	1.4		1	ug/L		11/17/03	SW846 5030B	SW846 8260B
1,1-Dichloroethane	< 0.75	0.75	2.5		1	ug/L		11/17/03	SW846 5030B	SW846 8260B
1,1-Dichloroethene	< 0.57	0.57	1.9		1	ug/L		11/17/03	SW846 5030B	SW846 8260B
1,2,3-Trichlorobenzene	< 0.74	0.74	2.5		1	ug/L		11/17/03	SW846 5030B	SW846 8260B
1,2,4-Trichlorobenzene	< 0.97	0.97	3.2		1	ug/L		11/17/03	SW846 5030B	SW846 8260B
1,2,4-Trimethylbenzene	< 0.97	0.97	3.2		1	ug/L		11/17/03	SW846 5030B	SW846 8260B
1,2-Dibromo-3-chloropropane	< 0.87	0.87	2.9		1	ug/L		11/17/03	SW846 5030B	SW846 8260B
1,2-Dibromoethane	< 0.56	0.56	1.9		1	ug/L		11/17/03	SW846 5030B	SW846 8260B
1,2-Dichlorobenzene	< 0.83	0.83	2.8		1	ug/L		11/17/03	SW846 5030B	SW846 8260B
1,2-Dichloroethane	< 0.36	0.36	1.2		1	ug/L		11/17/03	SW846 5030B	SW846 8260B
1,2-Dichloropropane	< 0.46	0.46	1.5		1	ug/L		11/17/03	SW846 5030B	SW846 8260B
1,3,5-Trimethylbenzene	< 0.83	0.83	2.8		1	ug/L		11/17/03	SW846 5030B	SW846 8260B
1,3-Dichlorobenzene	< 0.87	0.87	2.9		1	ug/L		11/17/03	SW846 5030B	SW846 8260B
1,3-Dichloropropane	< 0.61	0.61	2.0		1	ug/L		11/17/03	SW846 5030B	SW846 8260B
1,4-Dichlorobenzene	< 0.95	0.95	3.2		1	ug/L		11/17/03	SW846 5030B	SW846 8260B
2,2-Dichloropropane	< 0.62	0.62	2.1		1	ug/L		11/17/03	SW846 5030B	SW846 8260B
2-Chlorotoluene	< 0.85	0.85	2.8		1	ug/L		11/17/03	SW846 5030B	SW846 8260B
4-Chlorotoluene	< 0.74	0.74	2.5		1	ug/L		11/17/03	SW846 5030B	SW846 8260B
Benzene	< 0.41	0.41	1.4		1	ug/L		11/17/03	SW846 5030B	SW846 8260B
Bromobenzene	< 0.82	0.82	2.7		1	ug/L		11/17/03	SW846 5030B	SW846 8260B
Bromodichloromethane	< 0.56	0.56	1.9		1	ug/L		11/17/03	SW846 5030B	SW846 8260B
Carbon Tetrachloride	< 0.49	0.49	1.6		1	ug/L		11/17/03	SW846 5030B	SW846 8260B
Chlorobenzene	< 0.41	0.41	1.4		1	ug/L		11/17/03	SW846 5030B	SW846 8260B
Chlorodibromomethane	< 0.81	0.81	2.7		1	ug/L		11/17/03	SW846 5030B	SW846 8260B
Chloroethane	< 0.97	0.97	3.2		1	ug/L		11/17/03	SW846 5030B	SW846 8260B
Chloroform	< 0.37	0.37	1.2		1	ug/L		11/17/03	SW846 5030B	SW846 8260B
Chloromethane	< 0.24	0.24	0.80		1	ug/L		11/17/03	SW846 5030B	SW846 8260B
cis-1,2-Dichloroethene	< 0.83	0.83	2.8		1	ug/L		11/17/03	SW846 5030B	SW846 8260B
Dichlorodifluoromethane	< 0.99	0.99	3.3		1	ug/L		11/17/03	SW846 5030B	SW846 8260B
Diisopropyl Ether	< 0.76	0.76	2.5		1	ug/L		11/17/03	SW846 5030B	SW846 8260B
Ethylbenzene	< 0.54	0.54	1.8		1	ug/L		11/17/03	SW846 5030B	SW846 8260B
Fluorotrichloromethane	< 0.79	0.79	2.6		1	ug/L		11/17/03	SW846 5030B	SW846 8260B
Hexachlorobutadiene	< 0.67	0.67	2.2		1	ug/L		11/17/03	SW846 5030B	SW846 8260B
Isopropylbenzene	< 0.59	0.59	2.0		1	ug/L		11/17/03	SW846 5030B	SW846 8260B
Methylene Chloride	< 0.43	0.43	1.4		1	ug/L		11/17/03	SW846 5030B	SW846 8260B
Methyl-tert-butyl-ether	< 0.61	0.61	2.0		1	ug/L		11/17/03	SW846 5030B	SW846 8260B
Naphthalene	< 0.74	0.74	2.5		1	ug/L		11/17/03	SW846 5030B	SW846 8260B
n-Butylbenzene	< 0.93	0.93	3.1		1	ug/L		11/17/03	SW846 5030B	SW846 8260B
n-Propylbenzene	< 0.81	0.81	2.7		1	ug/L		11/17/03	SW846 5030B	SW846 8260B
p-Isopropyltoluene	< 0.67	0.67	2.2		1	ug/L		11/17/03	SW846 5030B	SW846 8260B
sec-Butylbenzene	< 0.89	0.89	3.0		1	ug/L		11/17/03	SW846 5030B	SW846 8260B
tert-Butylbenzene	< 0.97	0.97	3.2		1	ug/L		11/17/03	SW846 5030B	SW846 8260B
Tetrachloroethene	< 0.45	0.45	1.5		1	ug/L		11/17/03	SW846 5030B	SW846 8260B
Toluene	< 0.67	0.67	2.2		1	ug/L		11/17/03	SW846 5030B	SW846 8260B
trans-1,2-Dichloroethene	< 0.89	0.89	3.0		1	ug/L		11/17/03	SW846 5030B	SW846 8260B
Trichloroethene	< 0.48	0.48	1.6		1	ug/L		11/17/03	SW846 5030B	SW846 8260B
Vinyl Chloride	< 0.18	0.18	0.60		1	ug/L		11/17/03	SW846 5030B	SW846 8260B

En Chem Inc.

Analytical Report Number: 841026

1241 Bellevue Street
Green Bay, WI 54302
920-469-2436

Client : RMT - MADISON
Project Name : TPC
Project Number : 3084.20
Field ID : TRIP BLANK

Matrix Type : WATER
Collection Date : 11/11/03
Report Date : 11/18/03
Lab Sample Number : 841026-002

VOLATILES - SPECIAL LIST

Prep Date: 11/17/03

Analyte	Result	LOD	LOQ	EQL	Dil.	Units	Code	Anl Date	Prep Method	Anl Method
Xylene, o	< 0.83	0.83	2.8		1	ug/L		11/17/03	SW846 5030B	SW846 8260B
Xylenes, m + p	< 1.8	1.8	6.0		1	ug/L		11/17/03	SW846 5030B	SW846 8260B

Qualifier Codes

Flag	Applies To	Explanation
A	Inorganic	Analyte is detected in the method blank. Method blank criteria is evaluated to the laboratory method detection limit. Additionally, method blank acceptance may be based on project specific criteria or determined from analyte concentrations in the sample and are evaluated on a sample by sample basis.
B	Inorganic	The analyte has been detected between the method detection limit and the reporting limit.
B	Organic	Analyte is present in the method blank. Method blank criteria is evaluated to the laboratory method detection limit. Additionally, method blank acceptance may be based on project specific criteria or determined from analyte concentrations in the sample and are evaluated on a sample by sample basis.
C	All	Elevated detection limit.
D	All	Analyte value from diluted analysis or surrogate result not applicable due to sample dilution.
E	Inorganic	Estimated concentration due to matrix interferences. During the metals analysis the serial dilution failed to meet the established control limits of 0-10%. The sample concentration is greater than 50 times the IDL for analysis done on the ICP or 100 times the IDL for analysis done on the ICP-MS. The result was flagged with the E qualifier to indicate that a physical interference was observed.
E	Organic	Analyte concentration exceeds calibration range.
F	Inorganic	Due to potential interferences for this analysis by Inductively Coupled Plasma techniques (SW-846 Method 6010), this analyte has been confirmed by and reported from an alternate method.
F	Organic	Surrogate results outside control criteria.
H	All	Preservation, extraction or analysis performed past holding time.
J	Inorganic	The analyte has been detected between the method detection limit and the reporting limit.
J	Organic	Concentration detected is greater than the method detection limit but less than the reporting limit.
K	Inorganic	Sample received unpreserved. Sample was either preserved at the time of receipt or at the time of sample preparation.
K	Organic	Detection limit may be elevated due to the presence of an unrequested analyte.
L	All	Elevated detection limit due to low sample volume.
N	All	Spiked sample recovery not within control limits.
P	Organic	The relative percent difference between the two columns for detected concentrations was greater than 40%.
Q	All	The analyte has been detected between the limit of detection (LOD) and limit of quantitation (LOQ). The results are qualified due to the uncertainty of analyte concentrations within this range.
S	Organic	The relative percent difference between quantitation and confirmation columns exceeds internal quality control criteria. Because the result is unconfirmed, it has been reported as a non-detect with an elevated detection limit.
U	All	The analyte was not detected at or above the reporting limit.
V	All	Sample received with headspace.
W	All	A second aliquot of sample was analyzed from a container with headspace.
X	All	See Sample Narrative.
&	All	Laboratory Control Spike recovery not within control limits.
*	All	Precision not within control limits.
<	All	The analyte was not detected at or above the reporting limit.
1	Inorganic	Dissolved analyte or filtered analyte greater than total analyte; analyses passed QC based on precision criteria.
2	Inorganic	Dissolved analyte or filtered analyte greater than total analyte; analyses failed QC based on precision criteria.
3	Inorganic	BOD result is estimated due to the BOD blank exceeding the allowable oxygen depletion.
4	Inorganic	BOD duplicate precision not within control limits. Due to the 48 hour holding time for this test, it is not practical to reanalyze and try to correct the deficiency.
5	Inorganic	BOD result is estimated due to insufficient oxygen depletion. Due to the 48 hour holding time for this test, it is not practical to reanalyze and try to correct the deficiency.
6	Inorganic	BOD laboratory control sample not within control limits. Due to the 48 hour holding time for this test, it is not practical to reanalyze and try to correct the deficiency.
7	Inorganic	BOD result is estimated due to complete oxygen depletion. Due to the 48 hour holding time for this test, it is not practical to reanalyze and try to correct the deficiency.

841026-002
841026-001

Test Group Name

VOLATILES - SPECIAL LIST

G G

Wisconsin Certification	
G = En Chem Green Bay	405132750 / DATCP: 105 000444
K = En Chem Kimberly	445134030
S = En Chem Superior	Not Applicable
C = Subcontracted Analysis	

En Chem, Inc. Cooler Receipt Log

Batch No. 841026

Project Name or ID TPC No. of Coolers: 1 Temps: ROF

A. Receipt Phase: Date cooler was opened: 11/13/03 By: CK

- 1: Were samples received on ice? (Must be ≤ 6 C)..... YES NO²
- 2: Was there a Temperature Blank?..... YES NO
- 3: Were custody seals present and intact? (Record on COC)..... YES NO
- 4: Are COC documents present?..... YES NO²
- 5: Does this Project require quick turn around analysis?..... YES NO
- 6: Is there any sub-work?..... YES NO
- 7: Are there any short hold time tests?..... YES NO
- 8: Are any samples nearing expiration of hold-time? (Within 2 days)..... YES¹ NO Contacted by/Who _____
- 9: Do any samples need to be Filtered or Preserved in the lab?..... YES¹ NO Contacted by/Who _____

B. Check-in Phase: Date samples were Checked-in: 11/13/03 By: CK

- 1: Were all sample containers listed on the COC received and intact?..... YES NO² NA
- 2: Sign the COC as received by En Chem. Completed..... YES NO
- 3: Do sample labels match the COC? YES NO²
- 4: Completed pH check on preserved samples. YES NO NA
(This statement does not apply to water: VOC, O&G, TOC, DRO, Total Rec. Phenolics)
- 5: Do samples have correct chemical preservation?..... YES NO² NA
(This statement does not apply to water: VOC, O&G, TOC, DRO, Total Rec. Phenolics)
- 6: Are dissolved parameters field filtered?..... YES NO² NA
- 7: Are sample volumes adequate for tests requested? YES NO²
- 8: Are VOC samples free of bubbles >6mm YES NO² NA
- 9: Enter samples into logbook. Completed..... YES NO
- 10: Place laboratory sample number on all containers and COC. Completed..... YES NO
- 11: Complete Laboratory Tracking Sheet (LTS). Completed..... YES NO NA
- 12: Start Nonconformance form. YES NO NA
- 13: Initiate Subcontracting procedure. Completed..... YES NO NA
- 14: Check laboratory sample number on all containers and COC. KB YES NO NA

Short Hold-time tests:

48 Hours or less Coliform (6 hrs) Hexavalent Chromium (24 Hrs) BOD Nitrite or Nitrate Low Level Mercury Ortho Phosphorus Turbidity Surfactants Sulfite En Core Preservation Color	7 days Flashpoint TSS Total Solids TDS Sulfide Free Liquids Total Volatile Solids Aqueous Extractable Organics- ALL Unpreserved VOC's Ash	Footnotes 1 Notify proper lab group immediately. 2 Complete nonconformance memo.
--	---	--

Rev. 4/11/03, Attachment to 1-REC-5.
 Subject to QA Audit.

Reviewed by/date _____

8

(Please Print Legibly)
 Company Name: RMT
 Branch or Location: Madison
 Project Contact: P. Chase
 Telephone: 662-5453
 Project Number: 3084.20
 Project Name: TPC
 Project State: WI
 Sampled By (Print): Peter M Chase
 PO #:



1241 Bellevue St., Suite 9
 Green Bay, WI 54302
 920-469-2436
 Fax 920-469-8827

Page 1 of 1
 Quote #:

CHAIN OF CUSTODY

109174

*Preservation Codes
 A=None B=HCL C=H2SO4 D=HNO3 E=EnCore F=Methanol G=NaOH
 H=Sodium Bisulfate Solution I=Sodium Thiosulfate J=Other
 FILTERED? (YES/NO) N
 PRESERVATION (CODE)* B

Mail Report To: P. Chase
 Company: RMT, Inc
 Address: 744 Highland Tr
Madison, WI
 Invoice To: Accts Rec.
 Company:
 Address:
 Mail Invoice To:

Data Package Options - (please circle if requested)
 Sample Results Only (no QC)
 EPA Level II (Subject to Surcharge)
 EPA Level III (Subject to Surcharge)
 EPA Level IV (Subject to Surcharge)

Regulatory Program
 UST
 RCRA
 SDWA
 NPDES
 CERCLA
 Matrix Codes
 W=Water
 S=Soil
 A=Air
 C=Charcoal
 B=Biota
 Sl=Sludge

ANALYSES REQUESTED
 VOC WI LIST 8260

TOTAL # OF BOTTLES SENT

LABORATORY ID (Lab Use Only)	FIELD ID	COLLECTION		MATRIX	CLIENT COMMENTS	LAB COMMENTS (Lab Use Only)
		DATE	TIME			
001	SV-1	11/11	1630	W		3-40mls
002	Trip Blank					*2-40mls H ₂ O T.B. added to COC by Lab.

Rush Turnaround Time Requested (TAT) - Prelim
 (Rush TAT subject to approval/surcharge)
 Date Needed: _____
 Transmit Prelim Rush Results by (circle):
 Phone Fax E-Mail
 Phone #: _____
 Fax #: _____
 E-Mail Address: _____
Samples on HOLD are subject to special pricing and release of liability

Relinquished By: [Signature] Date/Time: 11/14/03 0900
 Relinquished By: [Signature] Date/Time: 11/17/03 1120
 Relinquished By: [Signature] Date/Time: 11/13/03 1345
 Relinquished By: _____ Date/Time: _____

Received By: [Signature] Date/Time: 11/13/03
 Received By: [Signature] Date/Time: 11/13/03 1120
 Received By: [Signature] Date/Time: 11/13/03 1345
 Received By: _____ Date/Time: _____

En Chem Project No. 811026
 Sample Receipt Temp. 20F
 Sample Receipt pH (Wet/Metals) N/A
 Cooler Custody Seal Present / Not Present
 Intact / Not Intact

Attachment 3
SV-1 Vapor Sample Results



AIR TOXICS LTD.

AN ENVIRONMENTAL ANALYTICAL LABORATORY

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Thank you for choosing Air Toxics Ltd. To better serve our customers, we are providing your report by e-mail. This document is provided in Portable Document Format which can be viewed with Acrobat Reader by Adobe.

This electronic report includes the following:

- Work order Summary;
- Laboratory Narrative;
- Results; and
- Chain of Custody (copy).

180 BLUE RAVINE ROAD, SUITE B FOLSOM, CA - 95630

(916) 985-1000 .FAX (916) 985-1020

Hours 8:00 A.M to 6:00 P.M. Pacific

E-mail to: samplereceiving@airtoxics.com

4/10



AIR TOXICS LTD.

AN ENVIRONMENTAL ANALYTICAL LABORATORY

WORK ORDER #: 0311223

Work Order Summary

CLIENT:	Mr. Pete Chase RMT, Inc. 744 Heartland Trail Madison, WI 53717	BILL TO:	Mr. Pete Chase RMT, Inc. 744 Heartland Trail Madison, WI 53717
PHONE:	608-831-4444	P.O. #	
FAX:	608-831-3334	PROJECT #	3084.20 TPC, Inc.
DATE RECEIVED:	11/13/03	CONTACT:	DeDe Dodge
DATE COMPLETED:	11/26/03		

<u>FRACTION #</u>	<u>NAME</u>	<u>TEST</u>	<u>RECEIPT VAC./PRES.</u>
01A	Blank (3195)	Modified TO-15	0.0 "Hg
02A	SV-1 (3024)	Modified TO-15	5.5 "Hg
03A	Lab Blank	Modified TO-15	NA
04A	CCV	Modified TO-15	NA
05A	LCS	Modified TO-15	NA

CERTIFIED BY: *Sinda D. Fruman*

DATE: 11/26/03

Laboratory Director

Certification numbers: AR DEQ - 03-084-0, CA NELAP - 02110CA, LA NELAP/LELAP- AI 30763, NJ NELAP - CA004
NY NELAP - 11291, UT NELAP - 9166389892

Name of Accrediting Agency: NELAP/Florida Department of Health, Scope of Application: Clean Air Act,

Accreditation number: E87680, Effective date: 07/01/03, Expiration date: 06/30/04

Air Toxics Ltd. certifies that the test results contained in this report meet all requirements of the NELAC standards

This report shall not be reproduced, except in full, without the written approval of Air Toxics Ltd.

180 BLUE RAVINE ROAD, SUITE B FOLSOM, CA - 95630
(916) 985-1000 . (800) 985-5955 . FAX (916) 985-1020

LABORATORY NARRATIVE
Modified TO-15
RMT, Inc.
Workorder# 0311223

Two 1 Liter Silonite Canister samples were received on November 13, 2003. The laboratory performed analysis via modified EPA Method TO-15 using GC/MS in the full scan mode. The method involves concentrating up to 0.5 liters of air. The concentrated aliquot is then flash vaporized and swept through a water management system to remove water vapor. Following dehumidification, the sample passes directly into the GC/MS for analysis. See the data sheets for the reporting limits for each compound.

Method modifications taken to run these samples include:

<i>Requirement</i>	<i>TO-15</i>	<i>ATL Modifications</i>
BFB acceptance criteria	CLP protocol	SW-846 protocol
Concentration of IS spike	10 ppbv	25 ppbv when 0.5/2.0 ppbv is used for the reporting limit
Dilutions for initial calibration	Dynamic dilutions or static using canisters	Syringe dilutions
Daily CCV	<= 30% Difference	<= 30% Difference with two allowed out up to <=40%.; flag and narrate outliers
Primary ions for Quantification	Freon 114: 85, Carbon Tetrachloride: 117, Trichloroethene: 130, Ethyl Benzene, m,p- and o-Xylene: 91	Freon 114: 135, Carbon Tetrachloride: 119, Trichloroethene: 95, Ethyl Benzene, m,p- and o-Xylene: 106
IS Recoveries	Within 40% of mean over ICAL for blanks, and w/in 40 % of daily CCV for samples	Within 40% of CCV recoveries for blank and samples

Receiving Notes

The chain of custody information for sample Blank (3195) did not match the entry on the sample tag. The discrepancy was noted in the Login email and the information on the chain of custody was used to process and report the sample.

Analytical Notes

There were no analytical discrepancies.

Definition of Data Qualifying Flags

Eight qualifiers may have been used on the data analysis sheets and indicates as follows:

- B - Compound present in laboratory blank greater than reporting limit (background subtraction not performed).
- J - Estimated value.
- E - Exceeds instrument calibration range.
- S - Saturated Peak.
- Q - Exceeds quality control limits.
- U - Compound analyzed for but not detected above the reporting limit.
- UJ- Non-detected compound associated with low bias in the CCV

N - The identification is based on presumptive evidence.

File extensions may have been used on the data analysis sheets and indicates as follows:

a-File was requantified

b-File was quantified by a second column and detector

r1-File was requantified for the purpose of reissue

AIR TOXICS LTD.

SAMPLE NAME: Blank (3195)

ID#: 0311223-01A

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	1111818	Date of Collection:	11/11/03
Dil. Factor:	8.08	Date of Analysis:	11/19/03 06:08 AM

Compound	Rpt. Limit (ppbv)	Rpt. Limit (uG/m3)	Amount (ppbv)	Amount (uG/m3)
Vinyl Chloride	4.0	10	Not Detected	Not Detected
1,1-Dichloroethene	4.0	16	Not Detected	Not Detected
1,1-Dichloroethane	4.0	17	Not Detected	Not Detected
cis-1,2-Dichloroethene	4.0	16	Not Detected	Not Detected
1,1,1-Trichloroethane	4.0	22	Not Detected	Not Detected
1,2-Dichloroethane	4.0	17	Not Detected	Not Detected
Trichloroethene	4.0	22	Not Detected	Not Detected
trans-1,2-Dichloroethene	16	65	Not Detected	Not Detected

Container Type: 1 Liter Silonite Canister

Surrogates	%Recovery	Method Limits
Toluene-d8	98	70-130
1,2-Dichloroethane-d4	92	70-130
4-Bromofluorobenzene	96	70-130

AIR TOXICS LTD.

SAMPLE NAME: SV-1 (3024)

ID#: 0311223-02A

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	1111819	Date of Collection: 11/11/03
Dil. Factor:	9.88	Date of Analysis: 11/19/03 06:53 AM

Compound	Rpt. Limit (ppbv)	Rpt. Limit (uG/m3)	Amount (ppbv)	Amount (uG/m3)
Vinyl Chloride	4.9	13	Not Detected	Not Detected
1,1-Dichloroethene	4.9	20	Not Detected	Not Detected
1,1-Dichloroethane	4.9	20	Not Detected	Not Detected
cis-1,2-Dichloroethene	4.9	20	Not Detected	Not Detected
1,1,1-Trichloroethane	4.9	27	Not Detected	Not Detected
1,2-Dichloroethane	4.9	20	Not Detected	Not Detected
Trichloroethene	4.9	27	Not Detected	Not Detected
trans-1,2-Dichloroethene	20	80	Not Detected	Not Detected

Container Type: 1 Liter Silonite Canister

Surrogates	%Recovery	Method Limits
Toluene-d8	97	70-130
1,2-Dichloroethane-d4	90	70-130
4-Bromofluorobenzene	96	70-130

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AIR TOXICS LTD.

SAMPLE NAME: Lab Blank

ID#: 0311223-03A

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	I111810	Date of Collection: NA
Dil. Factor:	1.00	Date of Analysis: 11/18/03 07:26 PM

Compound	Rpt. Limit (ppbv)	Rpt. Limit (uG/m3)	Amount (ppbv)	Amount (uG/m3)
Vinyl Chloride	0.50	1.3	Not Detected	Not Detected
1,1-Dichloroethene	0.50	2.0	Not Detected	Not Detected
1,1-Dichloroethane	0.50	2.0	Not Detected	Not Detected
cis-1,2-Dichloroethene	0.50	2.0	Not Detected	Not Detected
1,1,1-Trichloroethane	0.50	2.8	Not Detected	Not Detected
1,2-Dichloroethane	0.50	2.0	Not Detected	Not Detected
Trichloroethene	0.50	2.7	Not Detected	Not Detected
trans-1,2-Dichloroethene	2.0	8.0	Not Detected	Not Detected

Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits
Toluene-d8	98	70-130
1,2-Dichloroethane-d4	96	70-130
4-Bromofluorobenzene	100	70-130

AIR TOXICS LTD.

SAMPLE NAME: CCV

ID#: 0311223-04A

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	I111805a	Date of Collection: NA
Dil. Factor:	1.00	Date of Analysis: 11/18/03 03:19 PM

Compound	%Recovery
Vinyl Chloride	109
1,1-Dichloroethene	106
1,1-Dichloroethane	106
cis-1,2-Dichloroethene	107
1,1,1-Trichloroethane	108
1,2-Dichloroethane	108
Trichloroethene	106
trans-1,2-Dichloroethene	104

Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits
Toluene-d8	99	70-130
1,2-Dichloroethane-d4	99	70-130
4-Bromofluorobenzene	102	70-130

AIR TOXICS LTD.

SAMPLE NAME: LCS

ID#: 0311223-05A

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	1111809	Date of Collection: NA
Dil. Factor:	1.00	Date of Analysis: 11/18/03 06:37 PM

Compound	%Recovery
Vinyl Chloride	108
1,1-Dichloroethene	94
1,1-Dichloroethane	88
cis-1,2-Dichloroethene	100
1,1,1-Trichloroethane	100
1,2-Dichloroethane	102
Trichloroethene	107
trans-1,2-Dichloroethene	108

Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits
Toluene-d8	97	70-130
1,2-Dichloroethane-d4	94	70-130
4-Bromofluorobenzene	102	70-130



Sample Transportation Notice

Relinquishing signature on this document indicates that sample is being shipped in compliance with all applicable local, State, Federal, national, and international laws, regulations and ordinances of any kind. Air Toxics Limited assumes no liability with respect to the collection, handling or shipping of these samples. Relinquishing signature also indicates agreement to hold harmless, defend, and indemnify Air Toxics Limited against any claim, demand, or action of any kind, related to the collection, handling, or shipping of samples. D.O.T. Hotline (800) 467-4922

180 BLUE RAVINE ROAD, SUITE B
FOLSOM, CA 95630-4719
(916) 985-1000 FAX: (916) 985-1020

CHAIN-OF-CUSTODY RECORD

Contact Person <u>Patricia Chong</u> Company <u>KMT, Inc</u> Address <u>7444 Hartland Tr</u> City <u>Madison</u> State <u>WI</u> Zip <u>53717</u> Phone <u>608 667 5453</u> FAX <u>608 531 3334</u> Collected By: Signature _____	Project info: P.O. # _____ Project # <u>3084.20</u> Project Name <u>TPC, Inc</u>	Turn Around Time: <input checked="" type="checkbox"/> Normal <input type="checkbox"/> Rush _____ Specify _____
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Lab I.D.	Field Sample I.D.	Date & Time	Analyses Requested	Canister Pressure / Vacuum		
				Initial	Final	Receipt
	<u>Blank (3195)</u>	<u>11/11/03 1630</u>	<u>See Attached Table 1</u>	<u>-28</u>	<u>-1</u>	
	<u>SV-1 (3024)</u>	<u>11/11/03 1650</u>	<u>" " " "</u>	<u>-28</u>	<u>-1</u>	

Relinquished By: (Signature) <u>[Signature]</u> Date/Time <u>11/12/03 5pm</u>	Received By: (Signature) <u>[Signature]</u> Date/Time <u>Fed Ex</u>
Relinquished By: (Signature) _____ Date/Time _____	Received By: (Signature) _____ Date/Time _____
Relinquished By: (Signature) _____ Date/Time _____	Received By: (Signature) _____ Date/Time _____

Notes:

Lab Use Only	Shipper Name	Air Bill #	Opened By:	Temp. (°C)	Condition	Custody Seals Intact?	Work Order #
						Yes No None	