



ASBESTOS INSPECTION REPORT

**202 4th Ave NW
Oelwein, IA**



Project Report Dated: June 10, 2022



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A. ASBESTOS INSPECTION REPORT DATA

1. LOCATION

Residential Property
202 4th Ave NW
Oelwein, Iowa

2. CLIENT CONTACT

Dylan Mulfinger
City Administrator
City of Oelwein, Iowa

3. DATE(s) OF INSPECTION

June 6th, 2022

4. FIRM PERFORMING INSPECTION

Hawkeye Environmental
814 Wood Lily Road
Solon, IA 52333

5. LABORATORY USED FOR BULK SAMPLE ANALYSIS

Eurofins CEI
730 SE Maynard Road
Cary, North Carolina, 27511

6. LABORATORY ACCREDITATION

NVLAP (Nation Voluntary Laboratory Accreditation Program)
Lab Code: 103025



B. SCOPE OF WORK

Methods and Procedures:

The property located at 202 4th Ave NW, Oelwein, Iowa was inspected prior to scheduled demolition activities which may disturb asbestos-containing building materials in accordance with NESHAPS (National Emission Standards for Hazardous Air Pollutants) regulations. Field sampling methods were based on (NESHAPS) National Emission Standards for Hazardous Air Pollutants) protocols. Representative samples of suspect building materials were taken from Homogeneous Areas (HA-defined as similar in age, appearance, and function). The purpose of this inspection was to identify quantities and locations of asbestos-containing building materials prior to demolition of the structures. Bulk samples of suspect asbestos-containing materials (ACM) were analyzed by Polarized Light Microscopy (PLM) with dispersion staining, as described in 40 CFR Part 763 and NESHAPs. Each sample was analyzed for the six different types of fibrous asbestos forms, of which a percentage, by volume, is estimated and summarized. If further analysis and quantification is warranted, this analysis is performed by EPA 600/R-93/116 with 400 or 600 Point Count Procedure. Further analysis of samples may also be performed at the client's request using Transmission Electron Microscopy (TEM). Sample analysis was performed by Eurofins CEI. Eurofins is accredited by the National Institute for Standards and Technology for Polarized Light Microscopy analysis under their NVLAP (National Voluntary Lab Accreditation Program).

Asbestos-Containing Building Materials (ACBM)s and their control during renovation or demolition activities are regulated in Iowa by the Iowa Department of Natural Resources. Specific questions about testing or abatement activities may be directed to Mr. Tom Wuehr, Iowa DNR - Air Quality Division. Tom.Wuehr@DNR.iowa.gov 515-494-8212

Additional forms, guidance, and technical information regarding asbestos can be found on the DNR website at:
<http://www.iowadnr.gov/air/prof/asbestos/asbestos.html>



INSPECTION NOTES

In accordance with your request and authorization Hawkeye Environmental, LLC has performed an asbestos survey for the project referenced above. It is our understanding that the subject property will be demolished. Demolition has the potential to disturb all building materials. This survey intends to determine if any of the materials with the potential for disturbance are asbestos-containing.

The structure is a single-family home that is vacant. The property is in poor condition for its age and state of use.

Roof or roofing systems were sampled and included in this report.

A representative number of samples were collected from all suspect asbestos building materials.



C. SUMMARY OF ASBESTOS BUILDING MATERIALS

202 4th Ave NW

Surfacing Materials

<u>Material</u>	<u>Description</u>	<u>Location</u>	<u>Quantity</u>
None			

Thermal Systems Insulation

<u>Material</u>	<u>Description</u>	<u>Location</u>	<u>Quantity</u>
Duct Paper	Gray	Basement Ductwork	80 LF

Miscellaneous Materials

<u>Material</u>	<u>Description</u>	<u>Location</u>	<u>Quantity</u>
Chimney Tar	Black	Chimney	<15 LF
Cement Siding	Tan	Exterior	2,050 SF

Quantities supplied are estimates. Contractors must field verify all material quantities, locations, and conditions.



BULK SAMPLE ANALYSIS

**202 4th Ave NW
Oelwein, Iowa**

June 8, 2022

Hawkeye Environmental
814 Wood Lily Road
Solon, IA 52333

CLIENT PROJECT: City of Oelwein, 202 4th Avenue NW, Oelwein
CEI LAB CODE: A225784

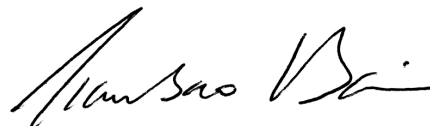
Dear Customer:

Enclosed are asbestos analysis results for PLM Bulk samples received at our laboratory on June 7, 2022. The samples were analyzed for asbestos using polarizing light microscopy (PLM) per the EPA 600 Method.

Sample results containing >1% asbestos are considered asbestos-containing materials (ACMs) per EPA regulatory requirements. The detection limit for the EPA 600 Method is <1% asbestos by weight as determined by visual estimation.

Thank you for your business and we look forward to continuing good relations.

Kind Regards,



Tianbao Bai, Ph.D., CIH
Laboratory Director



CEI

ASBESTOS ANALYTICAL REPORT

By: Polarized Light Microscopy

Prepared for

Hawkeye Environmental

CLIENT PROJECT: City of Oelwein, 202 4th Avenue NW, Oelwein

LAB CODE: A225784

TEST METHOD: EPA 600 / R93 / 116 and EPA 600 / M4-82 / 020

REPORT DATE: 06/08/22

TOTAL SAMPLES ANALYZED: 29

SAMPLES >1% ASBESTOS: 3



CEI

Asbestos Report Summary

By: POLARIZING LIGHT MICROSCOPY

PROJECT: City of Oelwein, 202 4th Avenue NW,
Oelwein

LAB CODE: A225784

METHOD: EPA 600 / R93 / 116 and EPA 600 / M4-82 / 020

Client ID	Layer	Lab ID	Color	Sample Description	ASBESTOS %
001		A225784.01	Black	Shingle	None Detected
002		A225784.02	Black	Tarpaper	None Detected
003		A225784.03	Black	Shingle	None Detected
004		A225784.04	Black	Tarpaper	None Detected
005		A225784.05	Black	Chimney Tar	Chrysotile 10%
006		A225784.06	White,Gray	Duct Paper	Chrysotile 65%
007		A225784.07	Tan,Gray	Siding	Chrysotile 15%
008		A225784.08	Black,Brown	Vapor Barrier	None Detected
009	Layer 1	A225784.09	Black,Red	Asphalt Siding	None Detected
	Layer 2	A225784.09	Black	Asphalt Siding	None Detected
010		A225784.10	Black	Vapor Barrier	None Detected
011		A225784.11	Gray	Window Glazing	None Detected
012		A225784.12	Gray	Window Glazing	None Detected
013		A225784.13	Beige	Linoleum	None Detected
014		A225784.14	Brown	Linoleum	None Detected
015		A225784.15	Tan	Linoleum	None Detected
016		A225784.16	White,Black	Floor Tile	None Detected
017		A225784.17	Clear	Mastic	None Detected
018		A225784.18	White,Tan	Ceiling Tile	None Detected
019		A225784.19	Brown	Insulation	None Detected
020		A225784.20	Beige	Plaster	None Detected
021		A225784.21	Beige	Plaster	None Detected
022		A225784.22	White	Plaster	None Detected
023		A225784.23	White,Tan	Drywall	None Detected
024		A225784.24	Tan	Tape	None Detected
025		A225784.25	White	Joint Compound	None Detected
026		A225784.26	White,Blue	Texture	None Detected
027		A225784.27	White	Texture	None Detected
028		A225784.28	White	Texture	None Detected
029		A225784.29	White	Texture	None Detected

ASBESTOS BULK ANALYSIS

By: POLARIZING LIGHT MICROSCOPY

Client: Hawkeye Environmental
 814 Wood Lily Road
 Solon, IA 52333

Lab Code: A225784
Date Received: 06-07-22
Date Analyzed: 06-08-22
Date Reported: 06-08-22

Project: City of Oelwein, 202 4th Avenue NW, Oelwein

ASBESTOS BULK PLM, EPA 600 METHOD

Client ID Lab ID	Lab Description	Lab Attributes	NON-ASBESTOS COMPONENTS				ASBESTOS %
			Fibrous	Cellulose	Non-Fibrous		
001 A225784.01	Shingle	Heterogeneous Black Fibrous Bound	50%	Cellulose	40% 10%	Tar Gravel	None Detected
002 A225784.02	Tarpaper	Homogeneous Black Fibrous Bound	60%	Cellulose	40%	Tar	None Detected
003 A225784.03	Shingle	Heterogeneous Black Fibrous Bound	50%	Cellulose	40% 10%	Tar Gravel	None Detected
004 A225784.04	Tarpaper	Homogeneous Black Fibrous Bound	60%	Cellulose	40%	Tar	None Detected
005 A225784.05	Chimney Tar	Heterogeneous Black Fibrous Bound			90%	Tar	10% Chrysotile
006 A225784.06	Duct Paper	Heterogeneous White, Gray Fibrous Loosely Bound	25%	Cellulose	10%	Binder	65% Chrysotile
007 A225784.07	Siding	Heterogeneous Tan, Gray Fibrous Bound			85%	Binder	15% Chrysotile

ASBESTOS BULK ANALYSIS

By: POLARIZING LIGHT MICROSCOPY

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814 Wood Lily Road
Solon, IA 52333

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Project: City of Oelwein, 202 4th Avenue NW, Oelwein

ASBESTOS BULK PLM, EPA 600 METHOD

Client ID Lab ID	Lab Description	Lab Attributes	NON-ASBESTOS COMPONENTS				ASBESTOS %
			Fibrous		Non-Fibrous		
008 A225784.08	Vapor Barrier	Heterogeneous Black,Brown Fibrous Bound	60%	Cellulose	40%	Tar	None Detected
009 Layer 1 A225784.09	Asphalt Siding	Heterogeneous Black,Red Fibrous Bound	50%	Cellulose	40%	Tar 10% Gravel	None Detected
Layer 2 A225784.09	Asphalt Siding	Heterogeneous Black Fibrous Bound	50%	Cellulose	40%	Tar 10% Gravel	None Detected
010 A225784.10	Vapor Barrier	Heterogeneous Black Fibrous Bound	60%	Cellulose	40%	Tar	None Detected
011 A225784.11	Window Glazing	Heterogeneous Gray Non-fibrous Bound			65%	Binder 35% Silicates <1% Paint	None Detected
012 A225784.12	Window Glazing	Heterogeneous Gray Non-fibrous Bound			65%	Binder 35% Silicates <1% Paint	None Detected
013 A225784.13	Linoleum	Heterogeneous Beige Fibrous Bound	50%	Cellulose	50%	Vinyl	None Detected

ASBESTOS BULK ANALYSIS

By: POLARIZING LIGHT MICROSCOPY

Client: Hawkeye Environmental
 814 Wood Lily Road
 Solon, IA 52333

Lab Code: A225784
Date Received: 06-07-22
Date Analyzed: 06-08-22
Date Reported: 06-08-22

Project: City of Oelwein, 202 4th Avenue NW, Oelwein

ASBESTOS BULK PLM, EPA 600 METHOD

Client ID Lab ID	Lab Description	Lab Attributes	NON-ASBESTOS COMPONENTS				ASBESTOS %
			Fibrous		Non-Fibrous		
014 A225784.14	Linoleum	Heterogeneous	50%	Cellulose	50%	Vinyl	None Detected
		Brown Non-fibrous Bound			50%	Foam	
015 A225784.15	Linoleum	Heterogeneous	40%	Cellulose	50%	Vinyl	None Detected
		Tan Fibrous Bound	10%	Fiberglass			
016 A225784.16	Floor Tile	Heterogeneous	100%	Cellulose	100%	Vinyl	None Detected
		White,Black Non-fibrous Bound					
017 A225784.17	Mastic	Homogeneous	100%	Cellulose	100%	Mastic	None Detected
		Clear Non-fibrous Bound					
018 A225784.18	Ceiling Tile	Heterogeneous	60%	Cellulose	15%	Perlite	None Detected
		White,Tan Fibrous Loosely Bound	20%	Fiberglass	5%	Paint	
019 A225784.19	Insulation	Heterogeneous	100%	Cellulose			None Detected
		Brown Fibrous Loose					
020 A225784.20	Plaster	Heterogeneous	<1%	Cellulose	65%	Silicates	None Detected
		Beige Non-fibrous Tightly Bound			35%	Binder	

ASBESTOS BULK ANALYSIS

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814 Wood Lily Road
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Date Analyzed: 06-08-22
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Project: City of Oelwein, 202 4th Avenue NW, Oelwein

ASBESTOS BULK PLM, EPA 600 METHOD

Client ID Lab ID	Lab Description	Lab Attributes	NON-ASBESTOS COMPONENTS				ASBESTOS %
			Fibrous		Non-Fibrous		
021 A225784.21	Plaster	Heterogeneous Beige Non-fibrous Tightly Bound	<1%	Cellulose	65%	Silicates 35% Binder	None Detected
022 A225784.22	Plaster	Heterogeneous White Non-fibrous Tightly Bound	<1%	Cellulose	65%	Silicates 35% Binder	None Detected
023 A225784.23	Drywall	Heterogeneous White, Tan Fibrous Bound	20%	Cellulose	80%	Gypsum	None Detected
024 A225784.24	Tape	Homogeneous Tan Fibrous Loosely Bound	100%	Cellulose			None Detected
025 A225784.25	Joint Compound	Heterogeneous White Non-fibrous Bound			60%	Binder 35% Calc Carb 5% Paint	None Detected
026 A225784.26	Texture	Heterogeneous White, Blue Non-fibrous Bound			65%	Binder 30% Foam 5% Paint	None Detected
Sample appears to be texture.							
027 A225784.27	Texture	Heterogeneous White Non-fibrous Bound			60%	Binder 35% Calc Carb 5% Paint	None Detected

ASBESTOS BULK ANALYSIS

By: POLARIZING LIGHT MICROSCOPY

Client: Hawkeye Environmental
 814 Wood Lily Road
 Solon, IA 52333

Lab Code: A225784
Date Received: 06-07-22
Date Analyzed: 06-08-22
Date Reported: 06-08-22

Project: City of Oelwein, 202 4th Avenue NW, Oelwein

ASBESTOS BULK PLM, EPA 600 METHOD

Client ID	Lab	Lab	NON-ASBESTOS COMPONENTS		ASBESTOS
Lab ID	Description	Attributes	Fibrous	Non-Fibrous	%
028 A225784.28	Texture	Heterogeneous	60%	Binder	None Detected
		White	35%	Calc Carb	
		Non-fibrous	5%	Paint	
		Bound			
029 A225784.29	Texture	Heterogeneous	60%	Binder	None Detected
		White	35%	Calc Carb	
		Non-fibrous	5%	Paint	
		Bound			

LEGEND: Non-Anth = Non-Asbestiform Anthophyllite
Non-Trem = Non-Asbestiform Tremolite
Calc Carb = Calcium Carbonate

METHOD: EPA 600 / R93 / 116 and EPA 600 / M4-82 / 020

REPORTING LIMIT: <1% by visual estimation

REPORTING LIMIT FOR POINT COUNTS: 0.25% by 400 Points or 0.1% by 1,000 Points

REGULATORY LIMIT: >1% by weight

Due to the limitations of the EPA 600 method, nonfriable organically bound materials (NOBs) such as vinyl floor tiles can be difficult to analyze via polarized light microscopy (PLM). EPA recommends that all NOBs analyzed by PLM, and found not to contain asbestos, be further analyzed by Transmission Electron Microscopy (TEM). Please note that PLM analysis of dust and soil samples for asbestos is not covered under NVLAP accreditation. *Estimated measurement of uncertainty is available on request.*

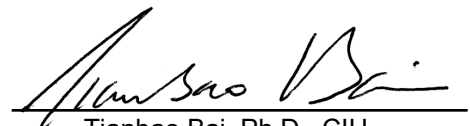
This report relates only to the samples tested or analyzed and may not be reproduced, except in full, without written approval by Eurofins CEI. Eurofins CEI makes no warranty representation regarding the accuracy of client submitted information in preparing and presenting analytical results. Interpretation of the analytical results is the sole responsibility of the client. Samples were received in acceptable condition unless otherwise noted. This report may not be used by the client to claim product endorsement by NVLAP or any other agency of the U.S. Government.

Information provided by customer includes customer sample ID and sample description.

ANALYST:


Regan Kerns

APPROVED BY:


Tianbao Bai, Ph.D., CIH
Laboratory Director



Scott Minyard



CEI

CHAIN OF CUSTODY

29

730 SE Maynard Road, Cary, NC 27511
 Tel: 866-481-1412; Fax: 919-481-1442

LAB USE ONLY:

CEI Lab Code: A225784

CEI Lab I.D. Range:

COMPANY INFORMATION		PROJECT INFORMATION	
CEI CLIENT #: 30261		Job Contact: Steve Henneberry	
Company: Hawkeye Environmental		Email / Tel: steve@hawkeyeenv.com	
Address: 814 Wood Lily Road, Solon, IA 52333		Project Name: City of Oelwein	
Email: Steve@hawkeyeenv.com		Project ID#: 202 4th Avenue NW, Oelwein	
Tel: 319-333-7420 Fax:		PO #:	
		STATE SAMPLES COLLECTED IN: IA	

IF TAT IS NOT MARKED STANDARD 3 DAY TAT APPLIES.

ASBESTOS	METHOD	TURN AROUND TIME					
		4 HR	8 HR	1 DAY	2 DAY	3 DAY	5 DAY
PLM BULK	EPA 600	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
PLM POINT COUNT (400)	EPA 600	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
PLM POINT COUNT (1000)	EPA 600	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
PLM GRAV w POINT COUNT	EPA 600	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
PLM BULK	CARB 435	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
PCM AIR*	NIOSH 7400	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
TEM AIR	EPA AHERA	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
TEM AIR	NIOSH 7402	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
TEM AIR (PCME)	ISO 10312	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
TEM AIR	ASTM 6281-15	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
TEM BULK	CHATFIELD	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
TEM DUST WIPE	ASTM D6480-05 (2010)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
TEM DUST MICROVAC	ASTM D5755-09 (2014)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
TEM SOIL	ASTM D7521-16	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
TEM VERMICULITE	CINCINNATI METHOD	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
TEM QUALITATIVE	IN-HOUSE METHOD	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
OTHER:		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

*Blanks should be taken from the same sample lot as field samples.

REMARKS / SPECIAL INSTRUCTIONS:		<input checked="" type="checkbox"/> Accept Samples <input type="checkbox"/> Reject Samples	
Relinquished By:	Date/Time	Received By:	Date/Time
Steve Henneberry	6/06/22	<i>[Signature]</i>	6/7/22 10:10am

Samples will be disposed of 30 days after analysis

COMPANY CONTACT INFORMATION	
Company:	Job Contact:
Project Name:	
Project ID #:	Tel:

SAMPLE ID#	DESCRIPTION / LOCATION	Description	TEST	
			PLM	TEM
001	shingle (house)		PLM <input checked="" type="checkbox"/>	TEM <input type="checkbox"/>
002	tar paper		PLM <input type="checkbox"/>	TEM <input type="checkbox"/>
003	shingle (garbage)		PLM <input type="checkbox"/>	TEM <input type="checkbox"/>
004	tar paper		PLM <input type="checkbox"/>	TEM <input type="checkbox"/>
005	chimney tar		PLM <input type="checkbox"/>	TEM <input type="checkbox"/>
006	duct paper		PLM <input type="checkbox"/>	TEM <input type="checkbox"/>
007	cement siding		PLM <input type="checkbox"/>	TEM <input type="checkbox"/>
008	vapor barrier		PLM <input type="checkbox"/>	TEM <input type="checkbox"/>
009	asphalt siding		PLM <input type="checkbox"/>	TEM <input type="checkbox"/>
010	vapor barrier		PLM <input type="checkbox"/>	TEM <input type="checkbox"/>
011	window glazing (house)		PLM <input type="checkbox"/>	TEM <input type="checkbox"/>
012	" " (bment)		PLM <input type="checkbox"/>	TEM <input type="checkbox"/>
013	linoleum (2nd bath)		PLM <input type="checkbox"/>	TEM <input type="checkbox"/>
014	" (2nd hall)		PLM <input type="checkbox"/>	TEM <input type="checkbox"/>
015	" (RR-top)		PLM <input type="checkbox"/>	TEM <input type="checkbox"/>
016	tile (RR-bot)		PLM <input type="checkbox"/>	TEM <input type="checkbox"/>
017	mastic		PLM <input type="checkbox"/>	TEM <input type="checkbox"/>
018	ceiling tile		PLM <input type="checkbox"/>	TEM <input type="checkbox"/>
019	blown insulation		PLM <input type="checkbox"/>	TEM <input type="checkbox"/>
020	plaster		PLM <input type="checkbox"/>	TEM <input type="checkbox"/>
021	"		PLM <input type="checkbox"/>	TEM <input type="checkbox"/>
022	"		PLM <input type="checkbox"/>	TEM <input type="checkbox"/>
023	drywall		PLM <input type="checkbox"/>	TEM <input type="checkbox"/>
024	tape		PLM <input type="checkbox"/>	TEM <input type="checkbox"/>
025	compound		PLM <input type="checkbox"/>	TEM <input type="checkbox"/>
026	"		PLM <input type="checkbox"/>	TEM <input type="checkbox"/>
027	spray texture		PLM <input type="checkbox"/>	TEM <input type="checkbox"/>
028	" "		PLM <input type="checkbox"/>	TEM <input type="checkbox"/>
029	" "			