DEWEY AVENUE AND DRIVING PARK REALIGNMENT
ASBESTOS PRE-DEMOLITION SURVEY/INSPECTION
AND
PCB CAULK SAMPLING

Family Dollar
352 Driving Park Avenue
Rochester, New York 14613

Volume 1 of 2

Prepared For:

Bergmann Associates
28 East Main Street
200 First Federal Plaza
Rochester, New York 14609

Prepared By:

RAVI ENGINEERING & LAND SURVEYING, P.C.
2110 South Clinton Avenue, Suite 1
Rochester, New York 14618

December 2015

Project No. 40-14-035

Preface

An Asbestos Pre-Demolition Survey/Inspection and PCB Caulk Sampling have been completed for the Family Dollar building located at 352 Driving Park Avenue, Rochester, New York. The results of this Survey/Inspection are included in this report and are presented in two volumes, namely:

Volume 1 of 2: Asbestos Pre-Demolition Survey/Inspection

Volume 2 of 2: PCB Caulk Sampling

DEWEY AVENUE AND DRIVING PARK REALIGNMENT
ASBESTOS PRE-RENOVATION SURVEY/INSPECTION

Family Dollar
352 Driving Park Avenue
Rochester, New York 14613

Volume 1 of 2

TABLE OF CONTENTS

ATTACHMENTS

EXECUTIVE SUMMARY

An Asbestos Pre-Demolition Survey/Inspection was conducted for the Family Dollar building located at 352 Driving Park Ave, Rochester, New York for Bergmann Associates, P.C. (Bergmann Associates). The Survey/Inspection included a visual inspection and collection of suspect asbestos-containing building materials for analysis. The inspector assessed interior and exterior spaces of the buildings based on the scope of the demolition to determine the presence, location, quantity and condition of asbestos-containing materials (ACMs).

Twenty (20) homogeneous areas (HAs), based on color and texture, were identified, of which forty four (44) samples were collected and sent to Paradigm Environmental Services Inc. (Paradigm) for asbestos content determination.

None of the forty four (44) samples collected and analyzed were determined to be ACM (> 1% asbestos by weight). Trace amounts of Actinolite/Tremolite indicate the presence of asbestos (less than 1%) in the exterior dark gray expansion joint caulk. Although not required to be removed as an ACM, contract personnel shall be aware that employee protection requirements outlined in OSHA 1926.1101 must be followed.

1.0 INTRODUCTION

Ravi Engineering & Land Surveying, P.C. (RE&LS) conducted an Asbestos Pre-Demolition Survey/Inspection at the Family Dollar building located at 352 Driving Park Avenue, Rochester, New York. The initial inspection was conducted October 23, 2015 for Bergmann Associates. RE&LS revisited the site November 4, 2015 to perform additional sampling of roofing materials.

2.0 PROJECT OVERVIEW

The Asbestos Pre-Demolition Survey/Inspection was conducted to identify ACMs impacted by demolition activities. Based on the 2015 feasibility study presented to the City of Rochester Department of Environmental Services by Bergmann Associates, demolition is proposed for the Family Dollar building.

3.0 RECORD REVIEW

No previous inspection reports and record plans were available for review.

4.0 SITE INSPECTION

The site inspection began with a visual inspection to identify homogeneous areas that exist throughout the impacted demolition areas. The United States Environmental Protection Agency (USEPA) Asbestos Hazard Emergency Response Act (AHERA) regulations define a homogeneous area (HA) as, "…an area of surfacing material, thermal system insulation material, or miscellaneous material that is uniform in color and texture." Further, HA's should consist of the same age (construction vintage) and application of the building material installed.

The inspector identified HAs that were present in the demolition area. Each functional space was given a space identification (ID) number with corresponding HA number. Space ID numbers used by RE&LS in this Survey/Inspection were given the following alpha-numeric coding:

FD-	Family Dollar
100x-	First Floor Space ID's
ROF-	Roof Space ID's
EXTx-	Exterior Space ID's
1A-	Homogeneous Area Number 1, sample A. (A, B , C, etc. refer to the total amount of samples collected for that HA based on AHERA sampling protocol)

Given this alpha-numeric coding, sample FD-1003-1A can be identified as: Family Dollar, store room, gray gypsum board, first sample.

The space ID number correlates with the ID number found on each Interior and Exterior Functional Space Inspection Form located in Attachment B. The areas of inspection applicable to this Survey/Inspection are shown on the floor plans located in Attachment C. HA numbers used for asbestos bulk sampling are listed in the table below:

Homogeneous Area Table	
Homogeneous Area No. (HA)	**Material Description**
1	Gray gypsum board
2	White joint compound
3	Gray cove molding mastic
4	White 12”x 12” floor tile
5	Tan floor tile mastic
6	Blue floor tile
7	Red floor tile
8	Red fire stop
9	Beige 12”x 12” floor tile
10	Gray 2’x 4’ acoustical ceiling tile with square pattern
11	Gray 2’x 4’ acoustical ceiling tile small pin fissure
12	Gray ceramic wall tile grout
13	Gray ceramic wall tile mastic
14	Black door and window caulk
15	Dark gray expansion joint caulk
16	Brown window caulk
17	Gray door caulk
18	Tan/gray exterior insulation and finishing system (EIFS)
19	Gray caulk
20	Black tar

5.0 ASBESTOS BULK SAMPLING

RE&LS is a New York State Licensed Asbestos Contractor employing NYS/EPA Certified Asbestos Inspectors. The Occupational Safety and Health Administration (OSHA) 29 CFR 1926.1101, 40 CFR 763 Subpart E AHERA and 12 NYCRR Part 56-5 was complied with regarding asbestos bulk sampling procedures.

Friable samples were analyzed using NYS ELAP Method EPA 600/M4/82/020 (Polarized Light Microscopy (PLM)). Non-friable organically bound (NOB) samples were analyzed using NYS ELAP Method 198.6 (PLM) and, if found to be less than or equal to 1% asbestos by weight, NYS ELAP Method 198.4 (Transmission Electron Microscopy) (TEM). Paradigm was the NYSDOH approved laboratory used for analysis. A copy of Paradigm's credentials can be found in Attachment A.

6.0 ASBESTOS MATERIALS AND LOCATIONS

No asbestos containing materials (> 1% by weight) were identified through sampling and laboratory analysis at the Family Dollar building.

Trace amounts of Actinolite/Tremolite indicate the presence of asbestos (less than 1%) in the exterior dark gray expansion joint caulk. Although not required to be removed as an ACM, contract personnel shall be aware that employee protection requirements outlined in OSHA 29 CFR 1926.1101 must be followed.

7.0 LIMITATIONS OF THE INVESTIGATION

The information provided in this report is compiled from field observation and bulk sampling. Materials noted and recorded are intended to represent the building at the time and date that the observations were made. Determinations of ACMs were subject to the accessibility of each individual area or space. RE&LS accepts no responsibility for the content of ACMs within areas or spaces that were unknown to us, not reasonably accessible, or not part of the scope of the project as defined by the client.

No record plans were provided for review at the time of this survey.

For specific limitations regarding each individual space, please refer to Section 8.0, Field Notes.

8.0 FIELD NOTES

The following field notes were recorded by the inspection team to strengthen the knowledge of building materials and systems present. In most instances the field notes capture observations that are not documented on the asbestos chain of custody or sample location drawing.

- Bathroom, Space ID 1001
  - -Sink caulk is silicone; silicone is not suspect for asbestos.
  - -Mirror mastic inaccessible.

- Storeroom, Space ID 1003
  - -Straight run pipe insulation is fiberglass; fiberglass is not suspect for asbestos.

- Retail floor, Space ID 1004
  - -No access to interior HVAC components; unit is in operation.
  - -Straight run pipe insulation, roof drain insulation and duct insulation are fiberglass; fiberglass is not suspect for asbestos.

- Vestibule, Space ID 1005
  - -Door and window glaze is rubber; rubber is not suspect for asbestos.

- North Exterior , Space ID EXTN
  - -Door and window glaze is rubber; rubber is not suspect for asbestos.

- Roof, Space ID ROF
  - -Two separate roof cuts were performed; no suspect roof materials were observed.

9.0 CONCLUSIONS

An asbestos Pre-Demolition Inspection was conducted at the Family Dollar Building located at 352 Driving Park Avenue, Rochester, New York on October 23, 2015. RE&LS revisited the site on November 4, 2015 to sample roofing materials. The inspection was performed by New York State Certified Asbestos Inspectors in accordance with OSHA 29 CFR 1926.1101, 40 CFR 763 Subpart E AHERA and 12 NYCRR Part 56-5.

All suspect materials collected and analyzed for asbestos content were found to be non-ACM (less than 1% by weight).

Trace amounts of Actinolite/Tremolite indicate the presence of asbestos (less than 1%) in the exterior dark gray expansion joint caulk. Although not required to be removed as an ACM, contract personnel shall be aware that employee protection requirements outlined in OSHA 29 CFR 1926.1101 must be followed.

Any suspect materials not identified in this report that are discovered during abatement or demolition activities, should be sampled by a New York State certified asbestos inspector prior to removal or disturbance.

ATTACHMENT A

License and Certifications

ASBESTOS PRE-DEMOLITION SURVEY/INSPECTION

Dewey Avenue and Driving Park Realignment
Family Dollar
352 Driving Park Avenue
Rochester, New York 14613

New York State – Department of Labor
Division of Safety and Health
License and Certificate Unit
State Campus, Building 12
Albany, NY 12240

ASBESTOS HANDLING LICENSE

Ravi Engineering and Land Surveying P.C.
Suite 1
2110 South Clinton Ave.

Rochester, NY 14618

FILE NUMBER: 06-1103
LICENSE NUMBER: 29384
LICENSE CLASS: RESTRICTED
DATE OF ISSUE: 02/06/2015
EXPIRATION DATE: 02/29/2016

Duly Authorized Representative – Nagappa Ravindra:

This license has been issued in accordance with applicable provisions of Article 30 of the Labor Law of New York State and of the New York State Codes, Rules and Regulations (12 NYCRR Part 56). It is subject to suspension or revocation for a (1) serious violation of state, federal or local laws with regard to the conduct of an asbestos project, or (2) demonstrated lack of responsibility in the conduct of any job involving asbestos or asbestos material.

This license is valid only for the contractor named above and this license or a photocopy must be prominently displayed at the asbestos project worksite. This license verifies that all persons employed by the licensee on an asbestos project in New York State have been issued an Asbestos Certificate, appropriate for the type of work they perform, by the New York State Department of Labor.

Eileen M. Franko, Director
For the Commissioner of Labor

SH 432 (8/12)

STATE OF NEW YORK - DEPARTMENT OF LABOR
ASBESTOS CERTIFICATE

N.Y.S

ANTHONY J HILL
CLASS(EXPIRES)
C ATEC(09/15) D INSP(09/15)
H PM (09/15) I PD (09/14)

CERT# 06-02018
DMV# 688601121

MUST BE CARRIED ON ASBESTOS PROJECTS

STATE OF NEW YORK - DEPARTMENT OF LABOR
ASBESTOS CERTIFICATE

N.Y.S

JOHN M LANZ
CLASS(EXPIRES)
D INSP(03/16)

CERT# 15-02537
DMV# 895930838

MUST BE CARRIED ON ASBESTOS PROJECTS

ATTACHMENT B

Functional Space Inspection Forms

ASBESTOS PRE-DEMOLITION SURVEY/INSPECTION

Dewey Avenue and Driving Park Realignment
Family Dollar
352 Driving Park Avenue
Rochester, New York 14613

FUNCTIONAL SPACE ASBESTOS INSPECTION FORM

Building Name: Family Dollar
Building Address: 352 Driving Park Ave, Rochester NY
Project No.: 40-14-035
Space ID No.: 1001
Date of Inspection: 10/23/15
Type of Space: Bathroom
Ceiling Height: 8 ft ____ in
Type of Structural Floor ____
Type of Structural Walls ____
Type of Structural Deck ____
Influence of Vibration: HIGH MODERATE LOW/NONE
Potential for Air Erosion: HIGH MODERATE LOW/NONE
Room Dimension 8 (N/S) x 8 (E/W) 64sF
(AC) = Above Ceiling, (BC) = Below Ceiling, (F) = Friable, (NF) = Non friable

Type of Material	Homogeneous Area ID No.	Location AC, BC	Color	F	NF	Suspect Material							
						Total	Damaged	D/D	P/D	Notes:	ACM Y/N	AHERA Rank	Removal Priority
Surfacing Material													
Ceiling													
Ceiling													
North Wall													
South Wall													
East Wall													
West Wall													
Thermal System Insulation													
Pipe Insulation													
Pipe Fittings													
Duct Wrap													
Duct Tape													
Miscellaneous Material													
AWL	1 A		GRY		X	300sf				walls & ceiling			
JC	2 A		WH		↓	↓				↓			
CMM	3 A		GRY		↓	32LF				wallbase			
FT1	4 A		WH/Speck		↓	64sf				Floor			
FTM	5 A		TAN			↓				↓			

Limit: mirror MAS Inacc.!

NOTE: SINK CLK silicone based

D/D - Degree of Damage
M - Minor
S - Significant

P/D - Potential for Damage
M - Minor (Not Accessible)
N - Not Significant (O M Only)
S - Significant (Accessible)

FUNCTIONAL SPACE ASBESTOS INSPECTION FORM

Building Name: Family Dollar
Building Address: 352 Driving Park Ave, Rochester NY
Project No.: 40-14-035
Space ID No.: 1252
Type of Space: Management office
Date of Inspection: 10/23/15
Ceiling Height: 8 ft ____ in
Type of Structural Floor ____
Type of Structural Walls ____
Type of Structural Deck ____
Influence of Vibration: HIGH MODERATE LOW/NONE
Potential for Air Erosion: HIGH MODERATE LOW/NONE
Room Dimension 6 (N/S) x 8 (E/W)
(AC) = Above Ceiling, (BC) = Below Ceiling, (F) = Friable, (NF) = Non friable

Type of Material	Homogeneous Area ID No.	Location AC, BC	Color	F	NF	Suspect Material							
						Total	Damaged	D/D	P/D	Notes:	ACM Y/N	AHERA Rank	Removal Priority
Surfacing Material													
Ceiling													
Ceiling													
North Wall													
South Wall													
East Wall													
West Wall													
Thermal System Insulation													
Pipe Insulation													
Pipe Fittings													
Duct Wrap													
Duct Tape													
Miscellaneous Material													
DWL	1		GRY		X					walls & ceiling			
JC	2		WH		↓					↓			
CMN	4		GRY		X	42LF							
FTI			WH Speck			48SF				floors			
FTM					↓	48SF				↓			

D/D - Degree of Damage
M - Minor
S - Significant

P/D - Potential for Damage
M - Minor (Not Accessible)
N - Not Significant (O M Only)
S - Significant (Accessible)

4 of 40

FUNCTIONAL SPACE ASBESTOS INSPECTION FORM

Building Name: Family Dollar
Building Address: 352 Driving Park Ave, Rochester NY
Project No.: 40-14-035
Space ID No.: 1003
Date of Inspection: 10/23/15
Type of Space: Store Room
Ceiling Height: 20 ft ____ in
Type of Structural Floor: Conc.
Type of Structural Walls: N/A
Type of Structural Deck: corrugated metal
Influence of Vibration: HIGH MODERATE LOW/NONE
Potential for Air Erosion: HIGH MODERATE LOW/NONE
Room Dimension: 100 (N/S) x 16 (E/W)
(AC) = Above Ceiling, (BC) = Below Ceiling, (F) = Friable, (NF) = Non friable

Type of Material	Homogeneous Area ID No.	Location AC, BC	Color	F	NF	Suspect Material: Total	Damaged	D/D	P/D	Notes:	ACM Y/N	AHERA Rank	Removal Priority
Surfacing Material													
Ceiling													
Ceiling													
North Wall													
South Wall													
East Wall													
West Wall													
Thermal System Insulation													
Pipe Insulation													
Pipe Fittings													
Duct Wrap													
Duct Tape													
Miscellaneous Material													
DWL	1 A		GRY		NF	4,816				4 walls			
JC	2 A		WH		NF	↓							
FT1	4 B		WH		NF	9 [illegible] SF				partial floor			
FTM	5 B		TAN		NF	1,[illegible] SF				floor			
FT	6 A		BLU		NF	10 SF				partial floor-strips			
FT	7 A		Pink		NF	10 SF				↓			
Firestop	8 A, B		P/I		NF	120 SF				Eastwall by ceiling (Inaccessible			
FT1	9 A, B		Beige		NF	35 SF				partial floor			
CMM	3 B		GRY		NF	86 LF				Southwall			

D/D - Degree of Damage
M - Minor
S - Significant

No ceiling to deck - Firestop in accessible

PIN - Fiberglass

P/D - Potential for Damage
M - Minor (Not Accessible)
N - Not Significant (O M Only)
S - Significant (Accessible)

FUNCTIONAL SPACE ASBESTOS INSPECTION FORM

Building Name: Family Dollar
Building Address: 352 Driving Park Ave, Rochester NY
Project No.: 40-14-035
Space ID No.: 1014
Date of Inspection: 10/23/15
Type of Space: Retail Floor
Ceiling Height: ___ ft 15 to tile 20 to deck in
Type of Structural Floor
Type of Structural Walls
Type of Structural Deck
Influence of Vibration: HIGH MODERATE LOW/NONE
Potential for Air Erosion: HIGH MODERATE LOW/NONE
Room Dimension 100 x 86 N/S E/W 8600SF
(AC) = Above Ceiling, (BC) = Below Ceiling, (F) = Friable, (NF) = Non friable

Type of Material	Homogeneous Area ID No.	Location AC, BC	Color	F	NF	Suspect Material Total	Damaged	D/D	P/D	Notes:	ACM Y/N	AHERA Rank	Removal Priority
Surfacing Material													
Ceiling													
Ceiling													
North Wall													
South Wall													
East Wall													
West Wall													
Thermal System Insulation													
Pipe Insulation													
Pipe Fittings													
Duct Wrap													
Duct Tape													
Miscellaneous Material													
DWL	1 B				X					4walls 20ft			
JC	2 B				↓								
CMU	3												
FT1	4												
FTM	5												
FT	6 B		BLU			355F							
FT	7 B		pink		↓	55SF							
SCT	10 A, B			X		8216							
SCT	11 A, B			↓		384							

D/D - Degree of Damage
M - Minor
S - Significant

DIW - Fiberglass
PIW & Roof drains Fiberglass
HVAC in operation - no Access

P/D - Potential for Damage
M - Minor (Not Accessible)
N - Not Significant (O M Only)
S - Significant (Accessible)

FUNCTIONAL SPACE ASBESTOS INSPECTION FORM

Building Name: Family Dollar | Project No.: 40-14-035 | Space ID No.: 1005 | Date of Inspection: 10/23/15

Building Address: 352 Driving Park Ave, Rochester NY | Type of Space: Vestibule

Ceiling Height: _____ ft _____ in

Type of Structural Floor _____ | Type of Structural Walls _____ | Type of Structural Deck _____

Influence of Vibration: HIGH MODERATE LOW/NONE | Potential for Air Erosion: HIGH MODERATE LOW/NONE | Room Dimension 11 x 12 (N/S x E/W)

(AC) = Above Ceiling, (BC) = Below Ceiling, (F) = Friable, (NF) = Non friable

Type of Material	Homogeneous Area ID No.	Location AC, BC	Color	F	NF	Suspect Material							
						Total	Damaged	D/D	P/D	Notes:	ACM Y/N	AHERA Rank	Removal Priority
Surfacing Material													
Ceiling													
Ceiling													
North Wall													
South Wall													
East Wall													
West Wall													
Thermal System Insulation													
Pipe Insulation													
Pipe Fittings													
Duct Wrap													
Duct Tape													
Miscellaneous Material													
DWL			1		X								
JC			2		↓								
CMM			3		↓					West & South wall			
FT1			4		↓								
FTM			5		↓								
GRT (W)			12		↓					North, South & west wall 6'↑			
CRC (W)			13		↓								
SCT			10	X	↓								

Door & window caulk/glaze is rubber

D/D - Degree of Damage
M - Minor
S - Significant

P/D - Potential for Damage
M - Minor (Not Accessible)
N - Not Significant (O M Only)
S - Significant (Accessible)

EXTERIOR INSPECTION FORM

Building Name: Family Dollar

Project No.: 40-14-035

Space ID No.: EXTN

Date of Inspection 10/23/2015

Building Address: 352 Drvining Park Ave, Rochester NY

Side of Building: N / E / S / W

Building Height: 20 ft _____ in

Type of Structural Walls _____

Influence of Vibration: HIGH MODERATE LOW/NONE

Potential for Air Erosion: HIGH MODERATE LOW/NONE

(F) = Friable, (NF) = Non friable

Type of Material	Homogeneous Area ID No.	Color	F	NF	Suspect Material					ACM Y/N
					Total	Damaged	D/D	P/D	Notes:	
Surfacing Material										
Thermal System Insulation										
Miscellaneous Material										
CLK	14	BLK		X	58LF				Sides & Top of Door 10 window	
EXP	15	DK GRY		X	24LF				2 joints	
WIC	16	BRN		X	12LF				Bottom of window	

WIG & WGD Rubber

D/D - Degree of Damage
M - Minor
S - Significant

P/D - Potential for Damage
M - Minor (Not Accessible)
N - Not Significant (O M Only)
S - Significant (Accessible)

EXTERIOR INSPECTION FORM

Building Name: Family Dollar Project No.: 40-14-035 Space ID No.: EXTE Date of Inspection 10/23/2015

Building Address: 352 Drvining Park Ave, Rochester NY Side of Building: N (E) S / W

Building Height: _____ ft _____ in

Type of Structural Walls _____

Influence of Vibration: HIGH MODERATE LOW/NONE Potential for Air Erosion: HIGH MODERATE LOW/NONE

(F) = Friable, (NF) = Non friable

Type of Material	Homogeneous Area ID No.	Color	F	NF	Suspect Material					ACM Y/N
					Total	Damaged	D/D	P/D	Notes:	
Surfacing Material										
Thermal System Insulation										
Miscellaneous Material										
CLK	14	BLK		X	36LF					
EXP	15	DK. GRY			12LF					
WIC	16	BRN		X	20LF					

D/D - Degree of Damage
M - Minor
S - Significant

P/D - Potential for Damage
M - Minor (Not Accessible)
N - Not Significant (O M Only)
S - Significant (Accessible)

EXTERIOR INSPECTION FORM

Building Name: Family Dollar Project No.: 40-14-035 Space ID No.: EXTS Date of Inspection 10/23/2015

Building Address: 352 Drvining Park Ave, Rochester NY Side of Building: N / E / (S) / W

Building Height: _____ ft _____ in

Type of Structural Walls _____

Influence of Vibration: HIGH MODERATE LOW/NONE Potential for Air Erosion: HIGH MODERATE LOW/NONE

(F) = Friable, (NF) = Non friable

Type of Material	Homogeneous Area ID No.	Color	F	NF	Suspect Material					
					Total	Damaged	D/D	P/D	Notes:	ACM Y/N
Surfacing Material										
Thermal System Insulation										
Miscellaneous Material										
EXP	15	DK GRY		X	20LF					

D/D - Degree of Damage
M - Minor
S - Significant

P/D - Potential for Damage
M - Minor (Not Accessible)
N - Not Significant (O M Only)
S - Significant (Accessible)

EXTERIOR INSPECTION FORM

Building Name: Family Dollar

Project No.: 40-14-035

Space ID No.: EXTW

Date of Inspection 10/23/2015

Building Address: 352 Drvining Park Ave, Rochester NY

Side of Building: N / E / S / W

Building Height: _____ ft _____ in

Type of Structural Walls _____

Influence of Vibration: HIGH MODERATE LOW/NONE

Potential for Air Erosion: HIGH MODERATE LOW/NONE

(F) = Friable, (NF) = Non friable

Type of Material	Homogeneous Area ID No.	Color	F	NF	Suspect Material					
					Total	Damaged	D/D	P/D	Notes:	ACM Y/N
Surfacing Material										
Thermal System Insulation										
Miscellaneous Material										
DUCK AB EXP	17 15	GRY		Y	Pdf area				7 mandoor	

D/D - Degree of Damage
M - Minor
S - Significant

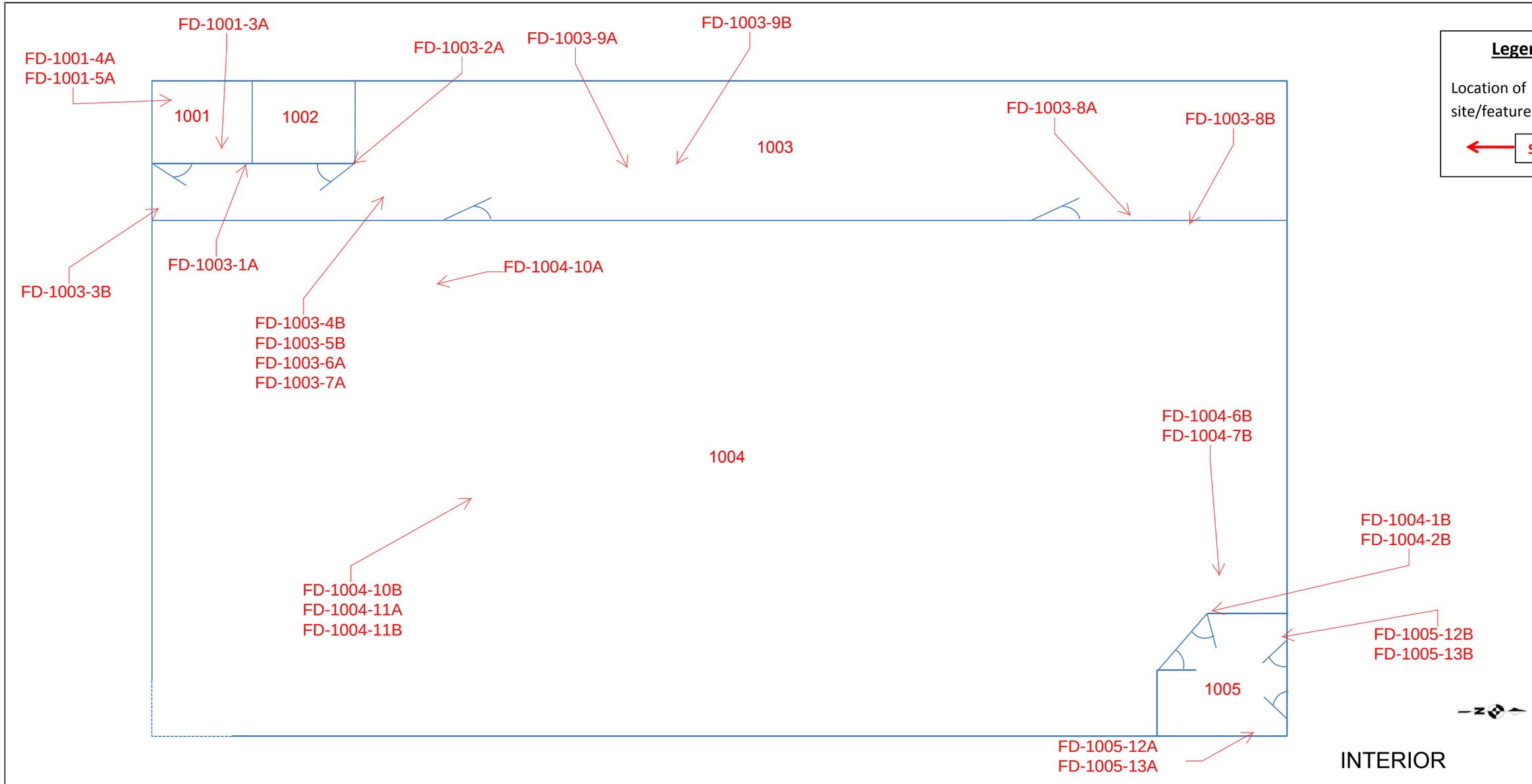
P/D - Potential for Damage
M - Minor (Not Accessible)
N - Not Significant (O M Only)
S - Significant (Accessible)

ATTACHMENT C

Areas of Inspection/Bulk Sample Location Plan

ASBESTOS PRE-DEMOLITION SURVEY/INSPECTION

Dewey Avenue and Driving Park Realignment
Family Dollar
352 Driving Park Avenue
Rochester, New York 14613



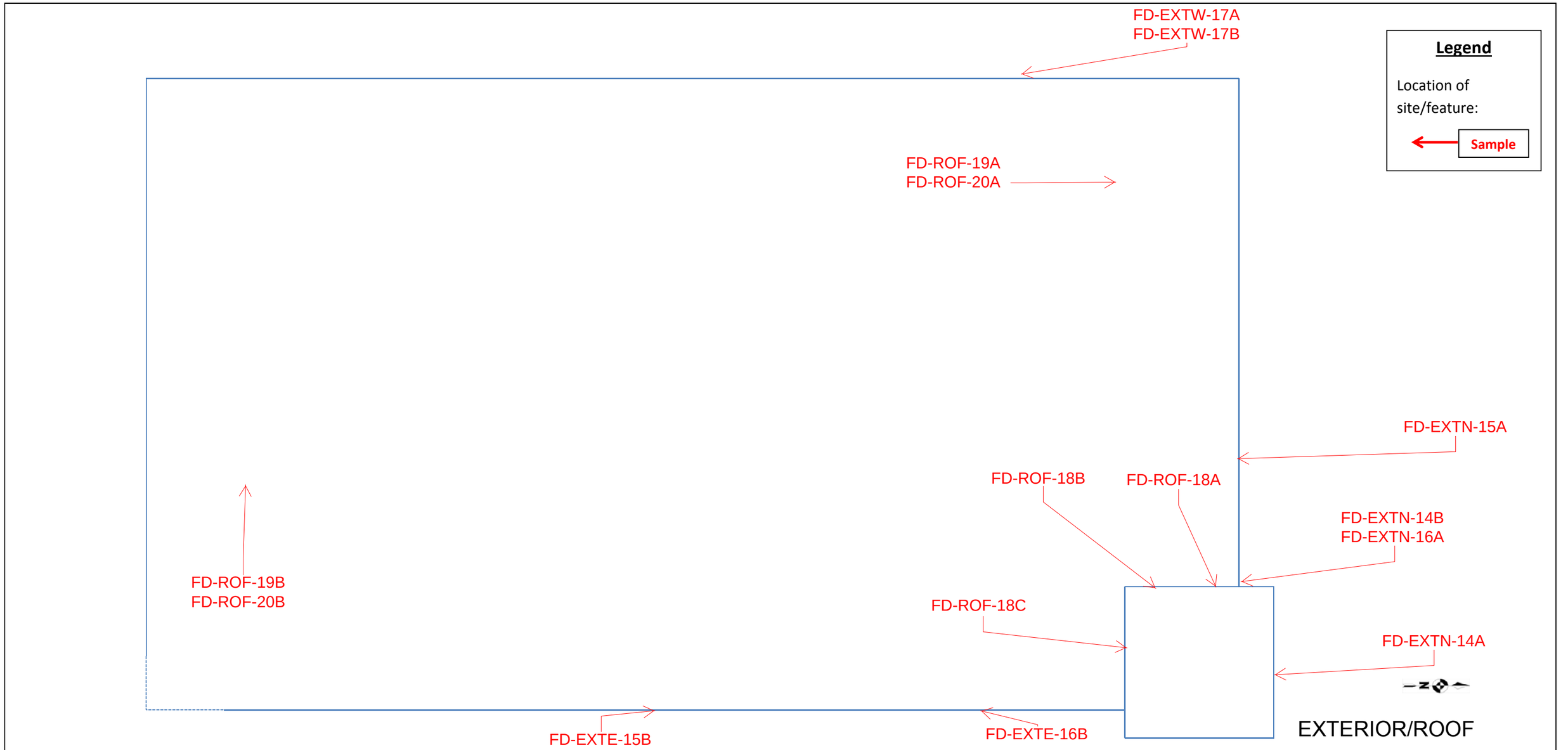
RAVI ENGINEERING & LAND SURVEYING, P.C.
2110 S. Clinton Avenue
Rochester, New York 14618

DEWEY AVENUE AND DRIVING PARK REALIGNMENT
FAMILY DOLLAR 352 DRIVING PARK AVE, ROCHESTER, NEW YORK
ASBESTOS PRE-DEMOLITION SURVEY/INSPECTION

PROJECT NO.	DATE:
40-14-035	DECEMBER 2015

ATTACHMENT C: AREAS OF INSPECTION/BULK SAMPLE LOCATION PLANS

SCALE:	DRAWING NO:
N.T.S.	1



RAVI ENGINEERING & LAND SURVEYING, P.C.
2110 S. Clinton Avenue
Rochester, New York 14618

DEWEY AVENUE AND DRIVING PARK REALIGNMENT
FAMILY DOLLAR 352 DRIVING PARK AVE, ROCHESTER, NEW YORK
ASBESTOS PRE-DEMOLITION SURVEY/INSPECTION

PROJECT NO.	DATE:
40-14-035	DECEMBER 2015

ATTACHMENT C: AREAS OF INSPECTION/BULK SAMPLE LOCATION PLANS

SCALE:	DRAWING NO:
N.T.S.	2

ATTACHMENT D

Analytical Reports and Chain of Custody Forms

ASBESTOS PRE-DEMOLITION SURVEY/INSPECTION

Dewey Avenue and Driving Park Realignment
Family Dollar
352 Driving Park Avenue
Rochester, New York 14613

PARADIGM
ENVIRONMENTAL SERVICES, INC.
179 Lake Avenue, Rochester, NY 14608 Office: (585) 647-2530 Fax: (585) 647-3311

PLM & TEM BULK ASBESTOS ANALYSIS REPORT
via NYSDOH ELAP Method 198.1,198.4 and 198.6

Client: Ravi Engineering & Land Surveying, P.C.
Location: Family Dollar
352 Driving Park, Rochester, New York
Sample Date: 10/23/2015

Job No: 14306-15

Reissued: 12/11/2015

Client ID	Lab ID	Sampling Location	Description	PLM Asbestos Fibers Type & Percentage	PLM Total Asbestos	NOB	TEM Asbestos Fibers Type & Percentage	TEM Total Asbestos	PLM Non-Asbestos Fibers Type & Percentage	Non-Fibrous Matrix Material %
FD-1003-1A	100472	Store Room Wall	Gray Gypsum Board	None Detected	0%		Not Required	N/A	Cellulose 4% Fiberglass 1%	95%
FD-1004-1B	100473	Retail Floor Wall	Gray Gypsum Board	None Detected	0%		Not Required	N/A	Cellulose 4% Fiberglass 1%	95%
FD-1003-2A	100474	Store Room Wall	White Joint Compound	None Detected	0%		Not Required	N/A	None Detected	100%
FD-1004-2B	100475	Retail Floor Wall	White Joint Compound	None Detected	0%		Not Required	N/A	None Detected	100%
FD-1001-3A	100476	Bathroom Wall Base	Gray Cove Molding Mastic	Inconclusive No Asbestos Detected	0%	√	None Detected	<1.0%	None Detected	100%
FD-1003-3B	100477	Store Room Wall Base	Gray Cove Molding Mastic	Inconclusive No Asbestos Detected	0%	√	None Detected	<1.0%	None Detected	100%
FD-1001-4A	100478	Bathroom Floor	White/Black Speck Floor Tile	Inconclusive No Asbestos Detected	0%	√	None Detected	<1.0%	None Detected	100%
FD-1003-4B	100479	Store Room Floor	White/Black Speck Floor Tile	Inconclusive No Asbestos Detected	0%	√	None Detected	<1.0%	None Detected	100%
FD-1001-5A	100480	Bathroom Floor	Tan Floor Tile Mastic	Inconclusive No Asbestos Detected	0%	√	None Detected	<1.0%	None Detected	100%
FD-1003-5B	100481	Store Room Floor	Tan Floor Tile Mastic	Inconclusive No Asbestos Detected	0%	√	None Detected	<1.0%	None Detected	100%

NVLAP Lab Code 200530-0 for PLM Analysis

ELAP ID No.: 10958

KEY TO NOB COLUMN SYMBOLS

No Symbol in the NOB column denotes sample analyzed by ELAP Method 198.1 (PLM).

√ NOB (non-friable organically bound)denotes material analyzed by ELAP Method 198.6 (PLM) and 198.4 (TEM).

V̈ denotes material analyzed by ELAP Method 198.6 (PLM) per NYSDOH. This Method does not remove vermiculite and may underestimate the level of asbestos present in a sample containing greater than 10% vermiculite.

 # denotes friable material analyzed by ELAP Method 198.6 (PLM) and 198.4 (TEM).

**** Polarized-light microscopy is not consistently reliable in detecting asbestos in floor coverings and similar non-friable organically bound materials. Quantitative transmission electron microscopy is currently the only method that can be used to determine if this material can be considered or treated as non-asbestos containing.**

PLM Bulk Asbestos Analysis by New York State Department of Health, ELAP Method 198.1 ,198.4 and 198.6 ("Polarized Light Microscopy and Transmission Electron Microscopy Methods for Identifying and Quantitating Asbestos in Bulk Samples and in Non-Friable Organically Bound Bulk Samples.")or EPA 600/M4-82-020 per 40 CFR 763 and/or EPA 600/R-93/116 (NVLAP Lab Code 2000530-0),

PLM Date Analyzed: 10/28/2015 **TEM Date Analyzed:** 10/29/2015
Microscope: Olympus BH-2 #232953 **TEM Analyst:** M. Lochner
Analyst: *T. Bush*

Laboratory Results Approved By:
Asbestos Operations Manager or Designee Mary Dohr

179 Lake Avenue, Rochester, NY 14608 Office: 585-647-2530 Fax: 585-647-3311

PARADIGM ENVIRONMENTAL SERVICES, INC.

CHAIN OF CUSTODY FOR PLM/TEM BULK ASBESTOS ANALYSIS

STOP POSITIVE FOR ALL ANALYSIS

Client: Ravi Engineering & Land Surveying, P.C.	Contact: Geoff Bijak
Phone Number:	Email: ahill@ravieng.com
Client Mailing Address: 2110 S. Clinton Avenue	Results To: Anthony Hill
	Turn Around Time: 1 ☐ 2 ☐ 3 ☐ 5 ☒ Immed ☐
Rochester, New York 14618	Date Sampled: 10/23/2015
	Material Type/Quantity: Friable NOB TEM
Project #: 40-14-035	Project Location: Family Dollar, 352 Driving Park Ave, Rochester, New York

OFFICE USE ONLY

Job #: 14306-15

Page 1 of 2

Date Logged In: 10/24/15

Logged In By: MHZ

1 of 4 COC

	Client ID	Lab ID	Sampling Location	Color	Size	Condition	Friability	Type of Material
1	FD-100-1A	100472	Store room wall	GRY		Good	NF	Gypsum Board
2	FD-100-1B	473	Retail floor wall	"		"	"	"
3	FD-100-2A	474	Store room wall	WH		"	"	Joint Compound
4	FD-100-2B	475	Retail floor wall	"		"	"	"
5	FD-100-3A	476	Bathroom wall base (Do not analyze covemolding)	GRY		"	"	Covemolding mastic
6	FD-100-3B	477	Store room wall base (covemolding)	"		"	"	"
7	FD-100-4A	478	Bathroom floor (Do not analyze mastic)	WH w/ BLK specks		"	"	Floor tile
8	FD-100-4B	479	Store room floor (mastic)	"		"	"	"
9	FD-100-5A	480	Bathroom floor	TAN		"	"	Floor tile mastic
10	FD-100-5B (AN)	481	Store room floor	"		"	"	"

Sampled By: Anthony Hill	Date: 10/23/15
Transported to Paradigm By: [signature]	Date: 10/23/15
Received By: [signature]	Date: 10/24/15

All samples will be analyzed by the appropriate New York State Department of Health methods (198.1,198.4 and 198.6) unless other methods are requested.

CHECK TO AUTOMATICALLY PERFORM TEM ON NOBS or provide TEM contact name: X

TOTAL NUMBER OF SAMPLES ON ALL CHAINS OF CUSTODY: 34

PARADIGM ENVIRONMENTAL SERVICES, INC.

179 Lake Avenue, Rochester, NY 14608 Office: (585) 647-2530 Fax: (585) 647-3311

PLM & TEM BULK ASBESTOS ANALYSIS REPORT
via NYSDOH ELAP Method 198.1,198.4 and 198.6

Client: Ravi Engineering & Land Surveying, P.C.
Location: Family Dollar
352 Driving Park, Rochester, New York
Sample Date: 10/23/2015

Job No: 14307-15

Client ID	Lab ID	Sampling Location	Description	PLM Asbestos Fibers Type & Percentage	PLM Total Asbestos	NOB	TEM Asbestos Fibers Type & Percentage	TEM Total Asbestos	PLM Non-Asbestos Fibers Type & Percentage	Non-Fibrous Matrix Material %
FD-1003-6A	100482	Store Room Floor	Blue Floor Tile	Inconclusive No Asbestos Detected	0%	√	None Detected	<1.0%	None Detected	100%
FD-1004-6B	100483	Retail Floor Wall	Blue Floor Tile	Inconclusive No Asbestos Detected	0%	√	None Detected	<1.0%	None Detected	100%
FD-1003-7A	100484	Store Room Floor	Red Floor Tile	Inconclusive No Asbestos Detected	0%	√	None Detected	<1.0%	None Detected	100%
FD-1004-7B	100485	Retail Floor Wall	Red Floor Tile	Inconclusive No Asbestos Detected	0%	√	None Detected	<1.0%	None Detected	100%
FD-1003-8A	100486	Store Room Wall Penetration	Red Fire Stop	None Detected	0%		Not Required	N/A	Cellulose 3%	97%
FD-1003--8B	100487	Store Room Wall Penetration	Red Fire Stop	None Detected	0%		Not Required	N/A	Cellulose 4%	96%
FD-1003-9A	100488	Store Room Floor	Beige Floor Tile	Inconclusive No Asbestos Detected	0%	√	None Detected	<1.0%	None Detected	100%
FD-1003-9B	100489	Store Room Floor	Beige Floor Tile	Inconclusive No Asbestos Detected	0%	√	None Detected	<1.0%	None Detected	100%
FD-1004-10A	100490	Retail Floor Ceiling	Gray Fibrous Ceiling Tile	Inconclusive No Asbestos Detected	0%	#	None Detected	<1.0%	Mineral Wool 15%	85%
FD-1004-10B	100491	Retail Floor Ceiling	Gray Fibrous Ceiling Tile	Inconclusive No Asbestos Detected	0%	√	None Detected	<1.0%	Mineral Wool 25%	75%

NVLAP Lab Code 200530-0 for PLM Analysis

ELAP ID No.: 10958

KEY TO NOB COLUMN SYMBOLS

No Symbol in the NOB column denotes sample analyzed by ELAP Method 198.1 (PLM).

√ NOB (non-friable organically bound)denotes material analyzed by ELAP Method 198.6 (PLM) and 198.4 (TEM).

V̌ denotes material analyzed by ELAP Method 198.6 (PLM) per NYSDOH. This Method does not remove vermiculite and may underestimate the level of asbestos present in a sample containing greater than 10% vermiculite.

 # denotes friable material analyzed by ELAP Method 198.6 (PLM) and 198.4 (TEM).

**** Polarized-light microscopy is not consistently reliable in detecting asbestos in floor coverings and similar non-friable organically bound materials. Quantitative transmission electron microscopy is currently the only method that can be used to determine if this material can be considered or treated as non-asbestos containing.**

PLM Bulk Asbestos Analysis by New York State Department of Health, ELAP Method 198.1 ,198.4 and 198.6 ("Polarized Light Microscopy and Transmission Electron Microscopy Methods for Identifying and Quantitating Asbestos in Bulk Samples and in Non-Friable Organically Bound Bulk Samples.")or EPA 600/M4-82-020 per 40 CFR 763 and/or EPA 600/R-93/116 (NVLAP Lab Code 2000530-0),

PLM Date Analyzed: 10/28/2015
Microscope: Olympus BH-2 #232953
Analyst: *T. Bush*

TEM Date Analyzed: 10/29/2015
TEM Analyst: M. Lochner

Laboratory Results Approved By:
Asbestos Operations Manager or Designee Mary Dohr

179 Lake Avenue, Rochester, NY 14608 Office: 585-647-2530 Fax: 585-647-3311

PARADIGM ENVIRONMENTAL SERVICES, INC.

CHAIN OF CUSTODY FOR PLM/TEM BULK ASBESTOS ANALYSIS

STOP POSITIVE FOR ALL ANALYSIS

Client: Ravi Engineering & Land Surveying, P.C.	**Contact:** Geoff Bijak
Phone Number:	**Email:** ahill@ravieng.com
Client Mailing Address: 2110 S. Clinton Avenue	**Results To** Anthony Hill
	Turn Around Time: 1 ☐ 2 ☐ 3 ☐ 5 ☒ Immed ☐
Rochester, New York 14618	**Date Sampled:** 10/23/2015
	Material Type/Quantity: Friable NOB TEM
Project #: 40-14-035	**Project Location:** Family Dollar 352 Driving Park Ave, Rochester, New York

OFFICE USE ONLY

Job #: 14367-15

Page 1 of 1

Date Logged In: 10/24/15

Logged In By: MHC

2 bulk COC

	Client ID	Lab ID	Sampling Location	Color	Size	Condition	Friability	Type of Material
1	FD-1003-6A	100482	store room Floor (Do not	BLU		Good	NF	Floor tile
2	FD-1004-6B	483	Retail Floor Floor analyze	"		"	"	"
3	FD-1003-7A	484	Store room Floor mastic	Red		"	"	"
4	FD-1004-~~8~~7B	485	Retail Floor Floor ↓	"		"	"	"
5	FD-1003-8A	QC 486	(HH) Store room wall penetration	"		"	"	Fire stop
6	FD-1003-8B	487	" "	"		"	"	"
7	FD-1003-9A	QC 488	store room Floor (Do not	Beige		"	"	Floor tile
8	FD-1003-9B	489	" " analyze mastic)	"		"	"	"
9	FD-1004-10A	490	Retail Floor ceiling	GRY		"	F	ceiling tile
10	FD-1004-10B	491	" "	"		"	"	"

Sampled By: Anthony Hill	**Date:** 10/23/15
Transported to Paradigm By:	**Date:** 10/23/15
Received By:	**Date:** 10/24/15

All samples will be analyzed by the appropriate New York State Department of Health methods (198.1,198.4 and 198.6) unless other methods are requested.

CHECK TO AUTOMATICALLY PERFORM TEM ON NOBS or provide TEM contact name:	X
TOTAL NUMBER OF SAMPLES ON ALL CHAINS OF CUSTODY:	34

PARADIGM ENVIRONMENTAL SERVICES, INC.

179 Lake Avenue, Rochester, NY 14608 Office: (585) 647-2530 Fax: (585) 647-3311

PLM & TEM BULK ASBESTOS ANALYSIS REPORT
via NYSDOH ELAP Method 198.1,198.4 and 198.6

Client: Ravi Engineering & Land Surveying, P.C.
Location: Family Dollar
352 Driving Park, Rochester, New York
Sample Date: 10/23/2015

Job No: 14308-15

Client ID	Lab ID	Sampling Location	Description	PLM Asbestos Fibers Type & Percentage	PLM Total Asbestos	NOB	TEM Asbestos Fibers Type & Percentage	TEM Total Asbestos	PLM Non-Asbestos Fibers Type & Percentage	Non-Fibrous Matrix Material %
FD-1004-11A	100492	Retail Floor Ceiling	Gray Ceiling Tile	Inconclusive No Asbestos Detected	0%	#	None Detected	<1.0%	Mineral Wool 5%	95%
FD-1004-11B	100493	Retail Floor Ceiling	Gray Ceiling Tile	Inconclusive No Asbestos Detected	0%	#	None Detected	<1.0%	Mineral Wool 5%	95%
FD-1005-12A	100494	Vestibule Wall	Gray Ceramic Wall Tile Grout	None Detected	0%		Not Required	N/A	None Detected	100%
FD-1005-12B	100495	Vestibule Wall	Gray Ceramic Wall Tile Grout	None Detected	0%		Not Required	N/A	None Detected	100%
FD-1005-13A	100496	Vestibule Wall	Gray Ceramic Wall Tile Mastic	Inconclusive No Asbestos Detected	0%	√	None Detected	<1.0%	None Detected	100%
FD-1005-13B	100497	Vestibule Wall	Gray Ceramic Wall Tile Mastic	Inconclusive No Asbestos Detected	0%	√	None Detected	<1.0%	None Detected	100%
FD-EXTN-14A	100498	Entry Door Frame	Black Caulk	Inconclusive No Asbestos Detected	0%	√	None Detected	<1.0%	None Detected	100%
FD-EXTN-14B	100499	Window Frame	Black Caulk	Inconclusive No Asbestos Detected	0%	√	None Detected	<1.0%	None Detected	100%
FD-EXTN-15A	100500	North Expansion Joint	Dark Gray Expansion Caulk	Inconclusive No Asbestos Detected	0%	√	Actinolite/ Tremolite <1.0%	<1.0%	None Detected	100%
FD-EXTE-15B	100501	East Expansion Joint	Dark Gray Expansion Caulk	Inconclusive No Asbestos Detected	0%	√	Actinolite/ Tremolite <1.0%	<1.0%	None Detected	100%

NVLAP Lab Code 200530-0 for PLM Analysis

ELAP ID No.: 10958

KEY TO NOB COLUMN SYMBOLS

No Symbol in the NOB column denotes sample analyzed by ELAP Method 198.1 (PLM).

√ NOB (non-friable organically bound)denotes material analyzed by ELAP Method 198.6 (PLM) and 198.4 (TEM).

V̇ denotes material analyzed by ELAP Method 198.6 (PLM) per NYSDOH. This Method does not remove vermiculite and may underestimate the level of asbestos present in a sample containing greater than 10% vermiculite.

 # denotes friable material analyzed by ELAP Method 198.6 (PLM) and 198.4 (TEM).

**** Polarized-light microscopy is not consistently reliable in detecting asbestos in floor coverings and similar non-friable organically bound materials. Quantitative transmission electron microscopy is currently the only method that can be used to determine if this material can be considered or treated as non-asbestos containing.**

PLM Bulk Asbestos Analysis by New York State Department of Health, ELAP Method 198.1 ,198.4 and 198.6 ("Polarized-Light Microscopy and Transmission Electron Microscopy Methods for Identifying and Quantitating Asbestos in Bulk Samples and in Non-Friable Organically Bound Bulk Samples.")or EPA 600/M4-82-020 per 40 CFR 763 and/or EPA 600/R-93/116 (NVLAP Lab Code 2000530-0),

PLM Date Analyzed: 10/28/2015
Microscope: Olympus BH-2 #232953
Analyst: *T. Bush*

TEM Date Analyzed: 10/29/2015
TEM Analyst: M. Lochner

Laboratory Results Approved By:
Asbestos Operations Manager or Designee Mary Dohr

179 Lake Avenue, Rochester, NY 14608 Office: 585-647-2530 Fax: 585-647-3311

PARADIGM ENVIRONMENTAL SERVICES, INC.

CHAIN OF CUSTODY FOR PLM/TEM BULK ASBESTOS ANALYSIS

STOP POSITIVE FOR ALL ANALYSIS

Client: Ravi Engineering & Land Surveying, P.C.	**Contact:** Geoff Bijak
Phone Number:	**Email:** ahill@ravieng.com
Client Mailing Address: 2110 S. Clinton Avenue	**Results To** Anthony Hill
	Turn Around Time: 1 [ ] 2 [ ] 3 [ ] 5 [X] Immed [ ]
Rochester, New York 14618	**Date Sampled:** 10/23/2015
	Material Type/Quantity: Friable ___ NOB ___ TEM ___
Project #: 40-14-035	**Project Location:** Family Dollar, 352 Driving Park Ave, Rochester, New York

OFFICE USE ONLY

Job #: 14308-15

Page 2 of 2

Date Logged In: 10/24/15

Logged In By: MTR

3 of 4 COC

	Client ID	Lab ID	Sampling Location	Color	Size	Condition	Friability	Type of Material
1	FD-1004-11A	100492	Retail floor ceiling	GRY		Good	F	Ceiling tile
2	FD1004-11B	493	" "	"		"	"	"
3	FD-1005-12A	494	vestibule wall	"		"	NF	Ceramic wall tile grout
4	FD-1005-12B	495	" "	"		"	"	"
5	FD-1005-13A	496	" " (Do not analyze)	"		"	"	Ceramic wall tile. ~~cement~~ MAST
6	FD-1005-13B	497	" " (grout/SPK)	"		"	"	"
7	FD-EXTN-14A	498	Entry door frame	BLK		"	"	Caulk
8	FD-EXTN-14B	499	window frame	"		"	"	"
9	FD-EXTN-~~N~~15A (15A)	500	North expansion joint	DK GRY		"	"	Expansion Caulk
10	FD-EXTE~~N~~15B (15B)	501	East expansion joint	"		"	"	"

Sampled By: Anthony Hill	**Date:** 10/23/15
Transported to Paradigm By: [signature]	**Date:** 10/23/15
Received By: [signature]	**Date:** 10/24/15

*ok to change per Tony Hill 10-27-15 fw

All samples will be analyzed by the appropriate New York State Department of Health methods (198.1,198.4 and 198.6) unless other methods are requested.

CHECK TO AUTOMATICALLY PERFORM TEM ON NOBS or provide TEM contact name:	X
TOTAL NUMBER OF SAMPLES ON ALL CHAINS OF CUSTODY:	34

PARADIGM
ENVIRONMENTAL SERVICES, INC.
179 Lake Avenue, Rochester, NY 14608 Office: (585) 647-2530 Fax: (585) 647-3311

PLM & TEM BULK ASBESTOS ANALYSIS REPORT
via NYSDOH ELAP Method 198.1,198.4 and 198.6

Client: Ravi Engineering & Land Surveying, P.C.
Location: Family Dollar
352 Driving Park, Rochester, New York
Sample Date: 10/23/2015

Job No: 14309-15

Client ID	Lab ID	Sampling Location	Description	PLM Asbestos Fibers Type & Percentage	PLM Total Asbestos	NOB	TEM Asbestos Fibers Type & Percentage	TEM Total Asbestos	PLM Non-Asbestos Fibers Type & Percentage	Non-Fibrous Matrix Material %
FD-EXTN-16A	100502	North Window base	Brown Window Caulk	Inconclusive No Asbestos Detected	0%	√	None Detected	<1.0%	None Detected	100%
FD-EXTE-16B	100503	East Window Base	Brown Window Caulk	Inconclusive No Asbestos Detected	0%	√	None Detected	<1.0%	None Detected	100%
FD-EXTW-17A	100504	West Man Door Frame	Gray Door Caulk	Inconclusive No Asbestos Detected	0%	√	None Detected	<1.0%	None Detected	100%
FD-EXTW-17B	100505	West Man Door Frame	Gray Door Caulk	Inconclusive No Asbestos Detected	0%	√	None Detected	<1.0%	None Detected	100%

NVLAP Lab Code 200530-0 for PLM Analysis

ELAP ID No.: 10958

KEY TO NOB COLUMN SYMBOLS
No Symbol in the NOB column denotes sample analyzed by ELAP Method 198.1 (PLM).
√ NOB (non-friable organically bound)denotes material analyzed by ELAP Method 198.6 (PLM) and 198.4 (TEM).
V̌ denotes material analyzed by ELAP Method 198.6 (PLM) per NYSDOH. This Method does not remove vermiculite and may underestimate the level of asbestos present in a sample containing greater than 10% vermiculite.
 # denotes friable material analyzed by ELAP Method 198.6 (PLM) and 198.4 (TEM).
**** Polarized-light microscopy is not consistently reliable in detecting asbestos in floor coverings and similar non-friable organically bound materials. Quantitative transmission electron microscopy is currently the only method that can be used to determine if this material can be considered or treated as non-asbestos containing.**

PLM Bulk Asbestos Analysis by New York State Department of Health, ELAP Method 198.1 ,198.4 and 198.6 ("Polarized Light Microscopy and Transmission Electron Microscopy Methods for Identifying and Quantitating Asbestos in Bulk Samples and in Non-Friable Organically Bound Bulk Samples.")or EPA 600/M4-82-020 per 40 CFR 763 and/or EPA 600/R-93/116 (NVLAP Lab Code 2000530-0),

PLM Date Analyzed: 10/28/2015 **TEM Date Analyzed:** 10/29/2015
Microscope: Olympus BH-2 #232953 **TEM Analyst:** M. Lochner
Analyst: *T. Bush*

Laboratory Results Approved By: _____
Asbestos Operations Manager or Designee Mary Dohr

179 Lake Avenue, Rochester, NY 14608 Office: 585-647-2530 Fax: 585-647-3311

PARADIGM ENVIRONMENTAL SERVICES, INC.

CHAIN OF CUSTODY FOR PLM/TEM BULK ASBESTOS ANALYSIS

STOP POSITIVE FOR ALL ANALYSIS

Client: Ravi Engineering & Land Surveying, P.C.	**Contact:** Geoff Bijak
Phone Number:	**Email:** ahill@ravieng.com
Client Mailing Address: 2110 S. Clinton Avenue	**Results To** Anthony Hill
	Turn Around Time: 1 ☐ 2 ☐ 3 ☐ 5 ☒ Immed ☐
Rochester, New York 14618	**Date Sampled:** 10/23/2015
	Material Type/Quantity: Friable ___ NOB ___ TEM ___
Project #: 40-14-035	**Project Location:** Family Dollar, 352 Driving Park Ave, Rochester, New York

OFFICE USE ONLY

Job #: 14329-15

Page 1 of 1

Date Logged In: 10/24/15

Logged In By: MH

4 of 4 COC

	Client ID	Lab ID	Sampling Location	Color	Size	Condition	Friability	Type of Material
1	FD-EXTN-16A	100502	North window base	BRN		Good	NF	window caulk
2	FD-EXTE-16B	503	East window base	"		"	"	"
3	FD-EXTW-17A	504	Westman door frame	GRY		"	"	Door caulk
4	FD-EXTW-17B	505 OCR	"	"		"	"	"
5								
6								
7								
8								
9								
10								

Sampled By: Anthony Hill	**Date:** 10/23/15
Transported to Paradigm By:	**Date:** 10/23/15
Received By:	**Date:** 10/24/15

All samples will be analyzed by the appropriate New York State Department of Health methods (198.1,198.4 and 198.6) unless other methods are requested.

CHECK TO AUTOMATICALLY PERFORM TEM ON NOBS X

or provide TEM contact name:

TOTAL NUMBER OF SAMPLES ON ALL CHAINS OF CUSTODY: 34

PARADIGM ENVIRONMENTAL SERVICES, INC.

179 Lake Avenue, Rochester, NY 14608 Office: (585) 647-2530 Fax: (585) 647-3311

PLM & TEM BULK ASBESTOS ANALYSIS REPORT
via NYSDOH ELAP Method 198.1,198.4 and 198.6

Client: Ravi Engineering & Land Surveying, P.C. **Job No:** 14823-15

Location: Family Dollar, Project #40-14-035 **Page:** 1 of 2

352 Driving Park Avenue, Rochester, New York

Sample Date: 11/4/2015

Client ID	Lab ID	Sampling Location	Description	PLM Asbestos Fibers Type & Percentage	PLM Total Asbestos	NOB	TEM Asbestos Fibers Type & Percentage	TEM Total Asbestos	PLM Non-Asbestos Fibers Type & Percentage	Non-Fibrous Matrix Material %
FD-ROF-18A	104601 a	Roof Top Cupola Wall	Tan EIFS Stucco	None Detected	0%		Not Required	N/A	None Detected	100%
FD-ROF-18A	104601 b	Roof Top Cupola Wall	Gray EIFS Stucco	None Detected	0%		Not Required	N/A	None Detected	100%
FD-ROF-18B	104602 a	Roof Top Cupola Wall	Tan EIFS Stucco	None Detected	0%		Not Required	N/A	None Detected	100%
FD-ROF-18B	104602 b	Roof Top Cupola Wall	Gray EIFS Stucco	None Detected	0%		Not Required	N/A	Fiberglass 5%	95%
FD-ROF-18C	104603 a	Roof Top Cupola Wall	Tan EIFS Stucco	None Detected	0%		Not Required	N/A	None Detected	100%
FD-ROF-18C	104603 b	Roof Top Cupola Wall	Gray EIFS Stucco	None Detected	0%		Not Required	N/A	Fiberglass 5%	95%
FD-ROF-19A	104604	Round Roof Top Exhaust Seam	Gray Caulk	Inconclusive No Asbestos Detected	0%	√	None Detected	<1.0%	None Detected	100%
FD-ROF-19B	104605	Round Roof Top Exhaust Seam	Gray Caulk	Inconclusive No Asbestos Detected	0%	√	None Detected	<1.0%	None Detected	100%
FD-ROF-20A	104606	Roof Seams	Black Tar	Inconclusive No Asbestos Detected	0%	√	None Detected	<1.0%	None Detected	100%
FD-ROF-20B	104607	Roof Seams	Black Tar	Inconclusive No Asbestos Detected	0%	√	None Detected	<1.0%	None Detected	100%

NVLAP Lab Code 200530-0 for PLM Analysis

ELAP ID No.: 10958

KEY TO NOB COLUMN SYMBOLS

No Symbol in the NOB column denotes sample analyzed by ELAP Method 198.1 (PLM).

√ NOB (non-friable organically bound)denotes material analyzed by ELAP Method 198.6 (PLM) and 198.4 (TEM).

V̈ denotes material analyzed by ELAP Method 198.6 (PLM) per NYSDOH. This Method does not remove vermiculite and may underestimate the level of asbestos present in a sample containing greater than 10% vermiculite.

 # denotes friable material analyzed by ELAP Method 198.6 (PLM) and 198.4 (TEM).

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PLM Bulk Asbestos Analysis by New York State Department of Health, ELAP Method 198.1 ,198.4 and 198.6 ("Polarized Light Microscopy and Transmission Electron Microscopy Methods for Identifying and Quantitating Asbestos in Bulk Samples and in Non-Friable Organically Bound Bulk Samples.")or EPA 600/M4-82-020 per 40 CFR 763 and/or EPA 600/R-93/116 (NVLAP Lab Code 2000530-0),

PLM Date Analyzed: 11/10/2015 **TEM Date Analyzed:** 11/10/2015

Microscope: Olympus BH-2 #232953 **TEM Analyst:** F. Weinman

Analyst: *T. Bush*

Laboratory Results Approved By:

Asbestos Operations Manager or Designee Mary Dohr

179 Lake Avenue, Rochester, NY 14608 Office: 585-647-2530 Fax: 585-647-3311

PARADIGM ENVIRONMENTAL SERVICES, INC.

CHAIN OF CUSTODY FOR PLM/TEM BULK ASBESTOS ANALYSIS

STOP POSITIVE FOR ALL ANALYSIS

Client: Ravi Engineering & Land Surveying, P.C.	**Contact:** Geoff Bijak
Phone Number:	**Email:** ahill@ravieng.com
Client Mailing Address: 2110 S. Clinton Avenue	**Results To** Anthony Hill
	Turn Around Time: 1 ☐ 2 ☐ 3 ☐ 5 ☒ Immed ☐
Rochester, New York 14618	**Date Sampled:** 11/4/2015
	Material Type/Quantity: Friable NOB TEM
Project #: 40-14-035	**Project Location:** Family Dollar, 352 Driving Park Ave, Rochester, New York

OFFICE USE ONLY

Job #: 14823-15

Page 1 **of** 1

Date Logged In: 11/5/15

Logged In By: KS

	Client ID	Lab ID	Sampling Location	Color	Size	Condition	Friability	Type of Material
1	FD-ROF-18A	104601AB	Rooftop Cupola wall	TAN/GRY		Good	NF	EIFS stucco
2	FD-ROF-18B	602 AB	" "	"		"	"	"
3	FD-ROF-18C	603 AB	" "	"		"	"	"
4	FD-ROF-19A	604	Round rooftop exhaust seam	GRY		"	"	Seam Caulk
5	FD-ROF-19B	605	" "	"		"	"	"
6	FD-ROF-20A	606	Roof seams	BLK		"	"	TAR
7	FD-ROF-20B	607	" "	"		"	"	"
8								
9								
10								

Sampled By: Anthony Hill	**Date:** 11/4/15
Transported to Paradigm By:	**Date:** 11/5/15
Received By: KS	**Date:** 11/5/15

All samples will be analyzed by the appropriate New York State Department of Health methods (198.1,198.4 and 198.6) unless other methods are requested.

CHECK TO AUTOMATICALLY PERFORM TEM ON NOBS X

or provide TEM contact name:

TOTAL NUMBER OF SAMPLES ON ALL CHAINS OF CUSTODY:

DEWEY AVENUE AND DRIVING PARK REALIGNMENT
PCB CAULK SAMPLING

Family Dollar
352 Driving Park Avenue
Rochester, New York 14613

Volume 2 of 2

Prepared For:

Bergmann Associates
28 East Main Street
200 First, Federal Plaza
Rochester, New York 14609

Prepared By:

Ravi Engineering & Land Surveying, P.C.
2110 S. Clinton Avenue
Suite 1
Rochester, New York 14618

December 2015

Project No. 40-14-035

DEWEY AVENUE AND DRIVING PARK REALIGNMENT
PCB CAULK SAMPLING

Family Dollar
352 Driving Park Avenue
Rochester, New York 14613

Volume 2 of 2

TABLE OF CONTENTS

ATTACHMENTS

EXECUTIVE SUMMARY

Four (4) exterior caulk samples were collected and analyzed for polychlorinated biphenyls (PCBs) at 352 Driving Park Avenue, Rochester, New York.

The exterior caulk materials that were sampled and analyzed for asbestos content determination (identified in Volume 1 of this report) were also sampled and analyzed for PCB content determination. Each of the four (4) samples collected were found to be below the regulatory threshold for PCB waste ($\geq$ 50 ppm).

1.0 INTRODUCTION

Ravi Engineering & Land Surveying, P.C. (RE&LS) conducted PCB Caulk Sampling at the Family Dollar building located at 352 Driving Park Avenue, Rochester, New York. The PCB inspection was conducted October 23, 2015 for Bergmann Associates.

2.0 PROJECT OVERVIEW

Exterior caulks/sealants were sampled for PCB analysis to determine if special removal or disposal procedures are required when demolition activities occur. This volume contains the findings of PCB caulk sampling.

3.0 PCB CAULK SAMPLING/FINDINGS

Four (4) caulk samples were collected and submitted to Paradigm for PCB content determination. A copy of Paradigm's certification is included in Attachment A. The location of bulk samples collected is contained in Attachment B. The following table identifies caulk materials that were sampled and analyzed for PCB content determination.

Material Description and Location	Sample Number	PCB Content
Black door and window caulk –door and window frames	PCB-CLK-001	<4.88 ppm
Dark gray expansion joint caulk –expansion joints	PCB-EXP-002	<4.65 ppm
Brown window caulk –window frame to sill	PCB-WIC-003	<5.14 ppm
Gray door caulk – west door frame	PCB-DCLK-004	<4.90 ppm

Note: All of the above identified caulks were also analyzed for asbestos content determination as identified in Volume 1 of this report.

The Environmental Protection Agency (EPA) defines PCB bulk waste as, "waste derived from manufacturing products containing PCBs in a non-liquid state, at any concentration where concentration at the time of designation for disposal was $\geq$ 50 ppm PCB's."

As indicated by the above results, none of the caulk materials contain PCBs above the EPA designated threshold for PCB waste.

4.0 LIMITATIONS OF INVESTIGATION

The information provided in this report is compiled from field observation and bulk sampling of caulk. Materials noted and recorded are intended to represent the building at the time and date that the observations were made. Determinations of caulk potentially containing PCBs were subject to the accessibility of each individual area or space. RE&LS accepts no responsibility for the content of PCBs (i.e. transformers, capacitors sp.) within areas or spaces that were unknown to us, not reasonably accessible, or not part of the scope of the project as defined by the client.

5.0 RECOMMENDATIONS

If any exterior caulks or sealants not identified during this /inspection are scheduled to be removed, they should be sampled for PCB content in accordance with current Federal, State and Local requirements prior to disturbance.

ATTACHMENT A

Laboratory Certification

PCB CAULK SAMPLING

Dewey Avenue and Driving Park Realignment
Family Dollar
352 Driving Park Avenue
Rochester, New York 14613

NEW YORK STATE DEPARTMENT OF HEALTH
WADSWORTH CENTER

Expires 12:01 AM April 01, 2015
Issued April 01, 2014

CERTIFICATE OF APPROVAL FOR LABORATORY SERVICE

Issued in accordance with and pursuant to section 502 Public Health Law of New York State

MR. BRUCE HOOGESTEGER
PARADIGM ENVIRONMENTAL SERVICES INC
179 LAKE AVENUE
ROCHESTER, NY 14608

NY Lab Id No: 10958

is hereby APPROVED as an Environmental Laboratory in conformance with the National Environmental Laboratory Accreditation Conference Standards (2003) for the category ENVIRONMENTAL ANALYSES SOLID AND HAZARDOUS WASTE
All approved analytes are listed below:

Phthalate Esters

Benzyl butyl phthalate	EPA 8270D
Bis(2-ethylhexyl) phthalate	EPA 8270D
Diethyl phthalate	EPA 8270D
Dimethyl phthalate	EPA 8270D
Di-n-butyl phthalate	EPA 8270D
Di-n-octyl phthalate	EPA 8270D

Polychlorinated Biphenyls

PCB-1016	EPA 8082A
PCB-1221	EPA 8082A
PCB-1232	EPA 8082A
PCB-1242	EPA 8082A
PCB-1248	EPA 8082A
PCB-1254	EPA 8082A
PCB-1260	EPA 8082A
PCB-1262	EPA 8082A
PCB-1268	EPA 8082A

Polynuclear Aromatic Hydrocarbons

Acenaphthene	EPA 8270D
Acenaphthylene	EPA 8270D
Anthracene	EPA 8270D
Benzo(a)anthracene	EPA 8270D
Benzo(a)pyrene	EPA 8270D
Benzo(b)fluoranthene	EPA 8270D
Benzo(ghi)perylene	EPA 8270D
Benzo(k)fluoranthene	EPA 8270D

Polynuclear Aromatic Hydrocarbons

Chrysene	EPA 8270D
Dibenzo(a,h)anthracene	EPA 8270D
Fluoranthene	EPA 8270D
Fluorene	EPA 8270D
Indeno(1,2,3-cd)pyrene	EPA 8270D
Naphthalene	EPA 8270D
Phenanthrene	EPA 8270D
Pyrene	EPA 8270D

Priority Pollutant Phenols

2,3,4,6 Tetrachlorophenol	EPA 8270D
2,4,5-Trichlorophenol	EPA 8270D
2,4,6-Trichlorophenol	EPA 8270D
2,4-Dichlorophenol	EPA 8270D
2,4-Dimethylphenol	EPA 8270D
2,4-Dinitrophenol	EPA 8270D
2,6-Dichlorophenol	EPA 8270D
2-Chlorophenol	EPA 8270D
2-Methyl-4,6-dinitrophenol	EPA 8270D
2-Methylphenol	EPA 8270D
2-Nitrophenol	EPA 8270D
4-Chloro-3-methylphenol	EPA 8270D
4-Methylphenol	EPA 8270D
4-Nitrophenol	EPA 8270D
Pentachlorophenol	EPA 8270D
Phenol	EPA 8270D

Serial No.: 50446

ATTACHMENT B

Bulk Sample Location Plan

PCB CAULK SAMPLING

Dewey Avenue and Driving Park Realignment
Family Dollar
352 Driving Park Avenue
Rochester, New York 14613

RAVI ENGINEERING & LAND SURVEYING, P.C.
2110 S. Clinton Avenue
Rochester, New York 14618

DEWEY AVENUE AND DRIVING PARK REALIGNMENT
FAMILY DOLLAR 352 DRIVING PARK AVE, ROCHESTER, NEW YORK
PCB CAULK SAMPLING

PROJECT NO. 40-14-035

DATE: DECEMBER 2015

ATTACHMENT B PCB SAMPLE LOCATION PLAN AND ROOF

SCALE: N.T.S.

DRAWING NO: 1

ATTACHMENT C

Analytical Report, Chain of Custody Form

PCB CAULK SAMPLING

Dewey Avenue and Driving Park Realignment
Family Dollar
352 Driving Park Avenue
Rochester, New York 14613

PARADIGM

Analytical Report For

Ravi Engineering & Land Surveying, P.C.

For Lab Project ID

154497

Referencing

40-14-035, Family Dollar, 352 Driving Park Ave

Prepared

Wednesday, October 28, 2015

Any noncompliant QC parameters or other notes impacting data interpretation are flagged or documented on the final report or are noted below:

Reduced sample size used for PCB analysis due to limited sample volume.

Certifies that this report has been approved by the Technical Director or Designee

179 Lake Avenue • Rochester, NY 14608 • (585) 647-2530 • Fax (585) 647-3311 • ELAP ID# 10958

PARADIGM
ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 154497

Client: **Ravi Engineering & Land Surveying, P.C.**

Project Reference: 40-14-035, Family Dollar, 352 Driving Park Ave

Sample Identifier:	North Door Frame, PCB-CLK-001		
Lab Sample ID:	154497-01	**Date Sampled:**	10/23/2015
Matrix:	Caulk	**Date Received:**	10/23/2015

PCBs

Analyte	Result	Units	Qualifier	Date Analyzed
PCB-1016	< 4.88	mg/Kg		10/27/2015 05:39
PCB-1221	< 4.88	mg/Kg		10/27/2015 05:39
PCB-1232	< 4.88	mg/Kg		10/27/2015 05:39
PCB-1242	< 4.88	mg/Kg		10/27/2015 05:39
PCB-1248	< 4.88	mg/Kg		10/27/2015 05:39
PCB-1254	< 4.88	mg/Kg		10/27/2015 05:39
PCB-1260	< 4.88	mg/Kg		10/27/2015 05:39
PCB-1262	< 4.88	mg/Kg		10/27/2015 05:39
PCB-1268	< 4.88	mg/Kg		10/27/2015 05:39

Surrogate	Percent Recovery	Limits	Outliers	Date Analyzed
Decachlorobiphenyl	**73.8**	19.4 - 148		10/27/2015 05:39
Tetrachloro-m-xylene	**88.8**	0 - 156		10/27/2015 05:39

Method Reference(s): EPA 8082A
EPA 3550C

Preparation Date: 10/26/2015

Report Prepared Wednesday, October 28, 2015

PARADIGM
ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 154497

Client: **Ravi Engineering & Land Surveying, P.C.**

Project Reference: 40-14-035, Family Dollar, 352 Driving Park Ave

Sample Identifier:	North Expansion Joint, PCB-Exp-002		
Lab Sample ID:	154497-02	**Date Sampled:**	10/23/2015
Matrix:	Caulk	**Date Received:**	10/23/2015

PCBs

Analyte	Result	Units	Qualifier	Date Analyzed
PCB-1016	< 4.65	mg/Kg		10/27/2015 06:02
PCB-1221	< 4.65	mg/Kg		10/27/2015 06:02
PCB-1232	< 4.65	mg/Kg		10/27/2015 06:02
PCB-1242	< 4.65	mg/Kg		10/27/2015 06:02
PCB-1248	< 4.65	mg/Kg		10/27/2015 06:02
PCB-1254	< 4.65	mg/Kg		10/27/2015 06:02
PCB-1260	< 4.65	mg/Kg		10/27/2015 06:02
PCB-1262	< 4.65	mg/Kg		10/27/2015 06:02
PCB-1268	< 4.65	mg/Kg		10/27/2015 06:02

Surrogate	Percent Recovery	Limits	Outliers	Date Analyzed
Decachlorobiphenyl	**51.2**	19.4 - 148		10/27/2015 06:02
Tetrachloro-m-xylene	**90.5**	0 - 156		10/27/2015 06:02

Method Reference(s): EPA 8082A
EPA 3550C

Preparation Date: 10/26/2015

PARADIGM
ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 154497

Client: **Ravi Engineering & Land Surveying, P.C.**

Project Reference: 40-14-035, Family Dollar, 352 Driving Park Ave

Sample Identifier:	North Window Frame Base, PCB-WIC-003		
Lab Sample ID:	154497-03	**Date Sampled:**	10/23/2015
Matrix:	Caulk	**Date Received:**	10/23/2015

PCBs

Analyte	Result	Units	Qualifier	Date Analyzed
PCB-1016	< 5.14	mg/Kg		10/27/2015 06:25
PCB-1221	< 5.14	mg/Kg		10/27/2015 06:25
PCB-1232	< 5.14	mg/Kg		10/27/2015 06:25
PCB-1242	< 5.14	mg/Kg		10/27/2015 06:25
PCB-1248	< 5.14	mg/Kg		10/27/2015 06:25
PCB-1254	< 5.14	mg/Kg		10/27/2015 06:25
PCB-1260	< 5.14	mg/Kg		10/27/2015 06:25
PCB-1262	< 5.14	mg/Kg		10/27/2015 06:25
PCB-1268	< 5.14	mg/Kg		10/27/2015 06:25

Surrogate	Percent Recovery	Limits	Outliers	Date Analyzed
Decachlorobiphenyl	**52.5**	19.4 - 148		10/27/2015 06:25
Tetrachloro-m-xylene	**94.7**	0 - 156		10/27/2015 06:25

Method Reference(s): EPA 8082A
EPA 3550C

Preparation Date: 10/26/2015

PARADIGM
ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 154497

Client: **Ravi Engineering & Land Surveying, P.C.**

Project Reference: 40-14-035, Family Dollar, 352 Driving Park Ave

Sample Identifier:	West Main Door Frame, PCB-DCLK-004		
Lab Sample ID:	154497-04	**Date Sampled:**	10/23/2015
Matrix:	Caulk	**Date Received:**	10/23/2015

PCBs

Analyte	Result	Units	Qualifier	Date Analyzed
PCB-1016	< 4.90	mg/Kg		10/27/2015 06:48
PCB-1221	< 4.90	mg/Kg		10/27/2015 06:48
PCB-1232	< 4.90	mg/Kg		10/27/2015 06:48
PCB-1242	< 4.90	mg/Kg		10/27/2015 06:48
PCB-1248	< 4.90	mg/Kg		10/27/2015 06:48
PCB-1254	< 4.90	mg/Kg		10/27/2015 06:48
PCB-1260	< 4.90	mg/Kg		10/27/2015 06:48
PCB-1262	< 4.90	mg/Kg		10/27/2015 06:48
PCB-1268	< 4.90	mg/Kg		10/27/2015 06:48

Surrogate	Percent Recovery	Limits	Outliers	Date Analyzed
Decachlorobiphenyl	**106**	19.4 - 148		10/27/2015 06:48
Tetrachloro-m-xylene	**92.5**	0 - 156		10/27/2015 06:48

Method Reference(s): EPA 8082A
EPA 3550C

Preparation Date: 10/26/2015

Analytical Report Appendix

The reported results relate only to the samples as they have been received by the laboratory.

Each page of this document is part of a multipage report. This document may not be reproduced except in its entirety, without the prior consent of Paradigm Environmental Services, Inc.

All soil/sludge samples have been reported on a dry weight basis, unless qualified "reported as received". Other solids are reported as received.

Low level Volatiles blank reports for soil/solid matrix are based on a nominal 5 gram weight. Sample results and reporting limits are based on actual weight, which may be more or less than 5 grams.

The Chain of Custody provides additional information, including compliance with sample condition requirements upon receipt. Sample condition requirements are defined under the 2003 NELAC Standard, sections 5.5.8.3.1 and 5.5.8.3.2.

NYSDOH ELAP does not certify for all parameters. Paradigm Environmental Services or the indicated subcontracted laboratory does hold certification for all analytes where certification is offered by ELAP unless otherwise specified. Aliquots separated for certain tests, such as TCLP, are indicated on the Chain of Custody and final reports with an "A" suffix.

Data qualifiers are used, when necessary, to provide additional information about the data. This information may be communicated as a flag or as text at the bottom of the report. Please refer to the following list of analyte-specific, frequently used data flags and their meaning:

"<" = Analyzed for but not detected at or above the quantitation limit.
"E" = Result has been estimated, calibration limit exceeded.
"Z" = See case narrative.
"D" = Sample, Laboratory Control Sample, or Matrix Spike Duplicate results above Relative Percent Difference limit.
"M" = Matrix spike recoveries outside QC limits. Matrix bias indicated.
"B" = Method blank contained trace levels of analyte. Refer to included method blank report.
"J" = Result estimated between the quantitation limit and half the quantitation limit.
"L" = Laboratory Control Sample recovery outside accepted QC limits.
"P" = Concentration differs by more than 40% between the primary and secondary analytical columns.
"NC" = Not calculable. Applicable to RPD if sample or duplicate result is non-detect or estimated (see primary report for data flags). Applicable to MS if sample is greater or equal to ten times the spike added. Applicable to sample surrogates or MS if sample dilution is 10x or higher.
"" = Indicates any recoveries outside associated acceptance windows. Surrogate outliers in samples are presumed matrix effects. LCS demonstrates method compliance unless otherwise noted.*
"(1)" = Indicates data from primary column used for QC calculation.
"A" = denotes a parameter for which ELAP does not offer approval as part of their laboratory certification program.
"F" = denotes a parameter for which Paradigm does not carry certification, the results for which should therefore only be used where ELAP certification is not required, such as personal exposure assessment.

GENERAL TERMS AND CONDITIONS
LABORATORY SERVICES

These Terms and Conditions embody the whole agreement of the parties in the absence of a signed and executed contract between the Laboratory (LAB) and Client. They shall supersede all previous communications, representations, or agreements, either verbal or written, between the parties. The LAB specifically rejects all additional, inconsistent, or conflicting terms, whether printed or otherwise set forth in any purchase order or other communication from the Client to the LAB. The invalidity or unenforceability in whole or in part of any provision, tern or condition hereof shall not affect in any way the validity or enforceability of the remainder of the Terms and Conditions. No waiver by LAB of any provision, term, or condition hereof or of any breach by or obligation of the Client hereunder shall constitute a waiver of such provision, term, or condition on any other occasion or a waiver of any other breach by or obligation of the Client. This agreement shall be administered and interpreted under the laws of the state which services are procured.

Warranty. Recognizing that the nature of many samples is unknown and that some may contain potentially hazardous components, LAB warrants only that it will perform testing services, obtain findings, and prepare reports in accordance with generally accepted analytical laboratory principles and practices at the time of performance of services. LAB makes no other warranty, express or implied.

Scope and Compensation. LAB agrees to perform the services described in the chain of custody to which these terms and conditions are attached. Unless the parties agree in writing to the contrary, the duties of LAB shall not be construed to exceed the services specifically described. LAB wi use LAB default method for all tests unless specified otherwise on the Work Order.
Payment terms are net 30 days from the date of invoice. All overdue payments are subject to an interest charge of one and one-half percent (1-1/2%) per month or a portion thereof. Client shall also be responsible for costs of collection, including payment of reasonable attorney fees if such expense is incurred. The prices, unless stated, do not include any sale, use or other taxes. Such taxes will be added to invoice prices when required.

Prices. Compensation for services performed will be based on the current Lab Analytical Fee Schedule or on quotations agreed to in writing by the parties. Turnaround time based charges are determined from the time of resolution of all work order questions. Testimony, court appearances or data compilation for legal action will be charged separately. Evaluation and reporting of initial screening runs may incur additional fees.

Limitations of Liability. In the event of any error, omission, or other professional negligence, the sole and exclusive responsibility of LAB shall be to re-perform the deficient work at its own expense and LAB shall have no other liability whatsoever. All claims shall be deemed waived unless made in writing and received by LAB within ninety (90) days following completion of services.
LAB shall have no liability, obligation, or responsibility of any kind for losses, costs, expenses, or other damages (including but not limited to any special, direct, incidental or consequential damages) with respect to LAB's services or results.
All results provided by LAB are strictly for the use of its clients and LAB is in no way responsible for the use of such results by clients or third parties. All reports should be considered in their entirety, and LAB is not responsible for the separation, detachment, or other use of any portion of these reports. Client may not assign the lab report without the written consent of the LAB.
Client covenants and agrees, at its/his/her sole expense, to indemnify, protect, defend, and save harmless the LAB from and against any and all damages, losses, liabilities, obligations, penalties, claims, litigation, demands, defenses, judgments, suits, actions, proceedings, costs, disbursements and/or expenses (including, without limitation attorneys' and experts' fees and disbursements) of any kind whatsoever which may at any time be imposed upon, incurred by or asserted or awarded against client relating to, resulting from or arising out of (a) the breach of this agreement by this client, (b) the negligence of the client in handling, delivering or disclosing any hazardous substance, (c) the violation of the Client of any applicable law, (d) non-compliance by the Client with any environmental permit or (e) a material misrepresentation in disclosing the materials to be tested.

Hazard Disclosure. Client represents and warrants that any sample delivered to LAB will be preceded or accompanied by complete written disclosure of the presence of any hazardous substances known or suspected by Client. Client further warrants that any sample containing any hazardous substance that is to be delivered to LAB will be packaged, labeled, transported, and delivered properly and in accordance with applicable laws.

Sample Handling. Prior to LAB's acceptance of any sample (or after any revocation of acceptance), the entire risk of loss or of damage to such sample remains with Client. Samples are accepted when receipt is acknowledged on chain of custody documentation. In no event will LAB have any responsibility for the action or inaction of any carrier shipping or delivering any sample to or from LAB premises.
Client authorizes LAB to proceed with the analysis of samples as received by the laboratory, recognizing that any samples not in compliance with all current DOH-ELAP-NELAP requirements for containers, preservation or holding time will be noted as such on th final report.
Disposal of hazardous waste samples is the responsibility of the Client. If the Client does not wish such samples returned, LAB may add storage and disposal fees to the final invoice. Maximum storage time for samples is 30 days after completion of analysis unless modified by applicable state or federal laws. Client will be required to give the LAB written instructions concerning disposal of these samples.
LAB reserves the absolute right, exercisable at any time, to refuse to receive delivery of, refuse to accept, or revoke acceptance of any sample, which, in the sole judgment of LAB (a) is of unsuitable volume, (b) may be or become unsuitable for or may pose a risk in handling, transport, or processing for any health, safety, environmental or other reason whether or not due to the presence in the sample of any hazardous substance, and whether or not such presence has been disclosed to LAB by Client or (c) if the condition or sample date make the sample unsuitable for analysis.

Legal Responsibility. LAB is solely responsible for performance of this contract, and no affiliated company, director, officer, employee, or agent shall have any legal responsibility hereunder, whether in contract or tort including negligence.

Assignment. LAB may assign its performance obligations under this contract to other parties, as it deems necessary. LAB shall disclose to Client any assignee (subcontractor) by ELAP ID # on the submitted final report.

Force Majeure. LAB shall have no responsibility or liability to the Client for any failure or delay in performance by LAB, which results in whole or in part from any cause or circumstance beyond the reasonable control of LAB. Such causes and circumstances shall include, but not limited to, acts of God, acts or orders of any government authority, strikes or other labor disputes, natural disasters, accidents, wars, civil disturbances, difficulties or delays in transportation, mail or delivery services, inability to obtain sufficient services or supplies from LAB's usual suppliers, or any other cause beyond LAB's reasonable control.

Law. This contract shall be continued under the laws of the State of New York without regard to its conflicts of laws provision.

179 Lake Avenue, Rochester, NY 14608 Office (585) 647-2530 Fax (585) 647-3311

CHAIN OF CUSTODY

PARADIGM ENVIRONMENTAL SERVICES, INC.

Proj # 40-14-035

PROJECT REFERENCE
Family Dollar
352 Driving Park Ave
Rochester NY

REPORT TO:		INVOICE TO:	
CLIENT:	Ravi Engineering & Land Survey	CLIENT:	Same
ADDRESS:	210 S. Clinton	ADDRESS:	
CITY:	Rochester	STATE: NY	ZIP: 14618
PHONE:		PHONE:	
ATTN:	Tony Hill	ATTN:	Geoff Bijak

LAB PROJECT ID: 154497

Quotation #:

Email: Ahill@raviengg.com

Matrix Codes:
AQ - Aqueous Liquid; NQ - Non-Aqueous Liquid; WA - Water; WG - Groundwater; DW - Drinking Water; WW - Wastewater; SO - Soil; SL - Sludge; SD - Solid; PT - Paint; WP - Wipe; CK - Caulk; OL - Oil; AR - Air

REQUESTED ANALYSIS

	DATE COLLECTED	TIME COLLECTED	COMPOSITE	GRAB	SAMPLE IDENTIFIER	MATRIX CODES	NUMBER OF CONTAINERS	PCB	REMARKS	PARADIGM LAB SAMPLE NUMBER
1	10/23/15			X	North door frame	CK	1	X	PCB-CLK-001	01
2	↓			↓	North Expansion joint	↓	↓	X	PCB-Exp-002	02
3					North window frame base			X	PCB-WFC-003	03
4					West man door frame			X	PCB-DCLK-004	04
5										
6										
7										
8										
9										
10									15°C 10/23/15 1411 hw	m

Turnaround Time		Report Supplements			
Availability contingent upon lab approval; additional fees may apply.					
Standard 5 day	X	Batch QC		Basic EDD	
Rush 3 day		Category A		NYSDEC EDD	
Rush 2 day		Category B			
Rush 1 day					
Other please indicate:		Other please indicate:		Other EDD please indicate:	

Sampled By: Anthony Hill — Date/Time: 10/23/15

Relinquished By: [signature] — Date/Time: 10/23/15

Received By — Date/Time

Received @ Lab By: [signature] — Date/Time: 10/23/15 14:48

Total Cost:

P.I.F.

PARADIGM ENVIRONMENTAL SERVICES, INC.

Chain of Custody Supplement

Client: Ravi Engineering **Completed by:** Glenn Pezzulo

Lab Project ID: 154497 **Date:** 10/23/15

Sample Condition Requirements

Per NELAC/ELAP 210/241/242/243/244

Condition	NELAC compliance with the sample condition requirements upon receipt: Yes	No	N/A
Container Type	X		
Comments			
Transferred to method-compliant container			X
Headspace (<1 mL)			X
Comments			
Preservation			X
Comments			
Chlorine Absent (<0.10 ppm per test strip)			X
Comments			
Holding Time	X		
Comments			
Temperature		X	
Comments	18°C		
Sufficient Sample Quantity		X	
Comments	-03		

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