

ASBESTOS ASSESSMENT REPORT

Dewey Avenue and Driving Park Avenue Realignment Project
City of Rochester, Monroe County, New York

PIN 4755.55

Prepared For:

City of Rochester

Prepared By:

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

January 2016

Project No. 40-14-035

ASBESTOS ASSESSMENT REPORT

Dewey Avenue and Driving Park Avenue Realignment Project
City of Rochester, Monroe County, New York

PIN 4755.55

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EXECUTIVE SUMMARY

An Asbestos Assessment has been conducted for the Dewey Ave/Driving Park Ave intersection realignment project in the City of Rochester, Monroe County, New York.

This Assessment was completed by a New York State Department of Labor (NYSDOL) Certified Asbestos Inspector in general accordance with the New York State Industrial Code Rule 56 and the New York State Department of Transportation's Environmental Manual, Chapter 4.4.19, Asbestos Management. The license and certifications to conduct this work are included in Attachment A.

The Assessment included a review of available record plans, a visual inspection and collection of suspect asbestos containing materials for asbestos content determination.

Two (2) types of homogeneous areas based on color and texture were identified as part of this Assessment. Three samples of each homogenous material were collected. Six (6) bulk samples were collected and sent to Paradigm Environmental Services, Inc. (Paradigm) for asbestos content determination. Analytical results from Paradigm Environmental Services, Inc. indicate that **none** of the materials sampled contain asbestos above the regulatory limit of one percent by weight.

If it is later determined that project components will include elements beyond the present scope of work for which this assessment was conducted, it is recommended that an additional Asbestos Assessment be completed by NYSDOL Certified inspectors.

If additional suspect materials not observed during the visual inspection are discovered during construction phase, these materials shall be treated as ACM until laboratory results prove otherwise.

1.0 INTRODUCTION

Ravi Engineering & Land Surveying, P.C. (RE&LS) has been retained by the City of Rochester as a sub consultant to Bergmann Associates P.C (Bergmann) to perform an Asbestos Assessment for the Dewey Ave/Driving Park Ave intersection realignment project in the City of Rochester, Monroe County, New York. The required license and certifications to conduct this work are included in Attachment A.

2.0 PROJECT OVERVIEW

The project is located in the City of Rochester, Monroe County (PIN 4755.55).

The City of Rochester intends to realign the intersection of Dewey Avenue and Driving Park Avenue. A major reconstruction project is necessary to redirect travel along Dewey Avenue.

This Asbestos Assessment included a review of available records, a visual inspection and collection of suspect asbestos containing materials (ACM's) for asbestos content determination. This report contains the findings of this Assessment.

3.0 RECORD REVIEW

Prior to field visual inspection RE&LS reviewed available records for the project envelope. A utility record review was coordinated with information received by the RE&LS Survey Department. The following companies reported underground utilities within the project limits as of April 2014:

- City of Rochester Water Bureau
- Frontier Telephone
- Monroe County Pure Waters (MCPW)
- Rochester Gas and Electric (RGE)
- Rochester District Heating
- Time Warner Cable

No ACM's were identified during this review.

4.0 VISUAL INSPECTION

A visual inspection and sampling was conducted on June 26, 2015. The purpose of the visual inspection is to identify homogeneous areas that exist throughout the impacted areas. During the Preliminary Assessment and visual inspection conducted April 21, 2014 by NYSDOL Certified Asbestos Inspector Mr. Geoff Bijak observed black tar on sidewalk seams and dark gray mortar on steel grate vaults. During the visual inspection performed June 26 these materials were not identified by the inspection team. It was noted that these materials may have been removed during maintenance activities conducted after the preliminary assessment.

The 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, homogeneous areas should consist of the same age and application. Suspect Homogeneous Area Number and physical descriptions for materials are indicated in the following table.

Homogeneous Area Table	
Homogeneous Area No. (HA)	Description
1	Gray curb grout
2	Brown sidewalk expansion joint

5.0 ASBESTOS BULK SAMPLING

Section 5.2 of Chapter 4.4.19 of NYSDOT's Asbestos Management Report from The Environmental Manual indicates that a minimum of three (3) samples shall be collected of each homogeneous area.

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 containing, NYS ELAP Method 198.4 (Transmission Electron Microscopy (TEM)). As indicated in Section 5.2 of Chapter 4.4.19 of NYSDOT's Asbestos Management Report of The Environmental Manual, TEM confirmation of NOB samples shall be performed on all three (3) individual samples until either the entire group has been determined negative or a positive result is obtained. Paradigm Environmental Services, Inc. (Paradigm) was the NYSDOH approved laboratory used for analysis. A copy of Paradigm's credentials can be found in Attachment A.

5.1 Sampling Results

Six (6) bulk samples were collected from two (2) distinct homogenous areas and sent to Paradigm for laboratory analysis.

The sample results received from Paradigm are summarized in the following table. Sample results, including applicable correspondence, are located in Attachment B.

SAMPLE RESULTS			
Homogeneous Area No. (HA)	Description	Sample Number	Asbestos Content and Type of Analysis
1	Gray curb grout	1A 1B 1C	None Detected-PLM None Detected-PLM None Detected-PLM
2	Brown sidewalk expansion joint	2A 2B 2C	None Detected-PLM <1.0% Residue Remaining, PLM and TEM Not Required <1.0% Residue Remaining, PLM and TEM Not Required

6.0 ASBESTOS MATERIALS AND LOCATIONS RESULTS SUMMARY

As indicated by the above table, no asbestos concentrations above one percent exist in any of the materials sampled during this assessment.

7.0 LIMITATIONS OF THE INVESTIGATION

Sampling performed June 26, 2015 was limited to materials available at the surface. A review of available records indicate several utilities below grade in the project corridor that were inaccessible to the inspection team. If additional suspect materials not observed during the visual inspection are discovered during construction phase, these materials shall be treated as ACM until laboratory results prove otherwise.

8.0 RECOMMENDATIONS

If it is later determined that project components will include elements beyond the present scope of work for which this assessment was conducted, it is recommended that an additional Asbestos Assessment be completed by NYSDOL Certified inspectors.

If additional suspect ACMs that were not accessible or visible during the visual inspection are discovered during the construction phase these materials shall be treated as ACM until laboratory results prove otherwise.

ATTACHMENT A

License and Certifications

ASBESTOS ASSESSMENT REPORT

*Dewey Avenue and Driving Park Avenue Realignment Project
PIN 4755.55*

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

NEW YORK STATE DEPARTMENT OF HEALTH
WADSWORTH CENTER



Expires 12:01 AM April 01, 2016
Issued April 01, 2015

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 for the category
ENVIRONMENTAL ANALYSES SOLID AND HAZARDOUS WASTE
All approved subcategories and/or analytes are listed below:

Miscellaneous

- | | |
|--------------------------------------|---|
| Asbestos in Friable Material | Item 198.1 of Manual
EPA 600/M4/82/020 |
| Asbestos in Non-Friable Material-PLM | Item 198.6 of Manual (NOB by PLM) |
| Asbestos in Non-Friable Material-TEM | Item 198.4 of Manual |
| Lead in Dust Wipes | EPA 6010C |
| Lead in Paint | EPA 6010C |

Sample Preparation Methods

EPA 3050B

Serial No.: 52201

Property of the New York State Department of Health. Certificates are valid only at the address shown, must be conspicuously posted, and are printed on secure paper. Continued accreditation depends on successful ongoing participation in the Program. Consumers are urged to call (518) 485-5570 to verify the laboratory's accreditation status.

STATE OF NEW YORK - DEPARTMENT OF LABOR
ASBESTOS CERTIFICATE



ANTHONY J HILL
CLASS(EXPIRES)
C ATEC(09/16) D INSP(09/16)
H PM (09/16)

CERT# 06-02018
OMV# 688601121

MUST BE CARRIED ON ASBESTOS PROJECTS

STATE OF NEW YORK - DEPARTMENT OF LABOR
ASBESTOS CERTIFICATE



DAVID J DEYOUNG
CLASS(EXPIRES)
D INSP(08/16)



CERT# 14-13720
DMV# 7D4904393

MUST BE CARRIED ON ASBESTOS PROJECTS

ATTACHMENT B

Analytical Report and Chain of Custody Form,

ASBESTOS ASSESSMENT REPORT

*Dewey Avenue and Driving Park Avenue Realignment Project
PIN 4755.55*



PLM & TEM BULK ASBESTOS REPORT

Client: Ravi Engineering & Land Surveying, P.C.
Location: Dewey & Driving Park
40-14-035
Sample Date: 6/26/2015

Job No: 7369B-15
Page: 1 of 2

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 %
1A	51089	Dewey & Driving Park Curb	Gray Grout	None Detected	0%		Not Required	N/A	None Detected	100%
1B	51090	Dewey & Driving Park Curb	Gray Grout	None Detected	0%		Not Required	N/A	None Detected	100%
1C	51091	Dewey & Driving Park Curb	Gray Grout	None Detected	0%		Not Required	N/A	None Detected	100%
2A	51092	Dewey & Driving Park Sidewalk	Brown Fibrous Expansion Joint	Inconclusive No Asbestos Detected	0%	✓	None Detected	<1.0%	Cellulose 80%	20%
2B	51093	Dewey & Driving Park Sidewalk	Brown Expansion Joint	<1.0% Residue Remaining. PLM and TEM Not Required.	N/A	✓	N/A	N/A	N/A	N/A
2C	51094	Dewey & Driving Park Sidewalk	Brown Expansion Joint	<1.0% Residue Remaining. PLM and TEM Not Required.	N/A	✓	N/A	N/A	N/A	N/A



Lab Code 200530-0
for PLM Analysis

ELAP ID No.: 10958

✓ This Method does not remove vermiculite and may underestimate the level of asbestos present in a sample containing greater than 10% vermiculite.

PLM Bulk Asbestos Analysis by EPA 600/M4-82-020 per 40 CFR 763 and/or EPA 600/R-93/116 (NVLAP Lab Code 2000530-0), 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.").

✓ NOB (non-friable organically bound) Classified for Analytical Purposes Only.

denotes material analyzed by ELAP Method 198.4 and 198.6 per NYSDOH.

** 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 Date Analyzed: 6/30/2015

TEM Date Analyzed: 7/2/2015

Microscope: Olympus BH-2 #232953

TEM Analyst: M. Lochner

Analyst: T. Bush

Laboratory Results Approved By: _____
Asbestos Technical Director

Mary Doherty

Paradigm Environmental Services, Inc. is not responsible for the data supplied by an independent inspector. National Institute of Standards and Technology Accreditation requirements mandate that this report must not be reproduced except in full without the approval of the laboratory. This PLM report relates ONLY to the items tested. This report must not be used to claim product endorsement by NVLAP or any agency of the U.S. Government. Quality control data (including 95% confidence limits and laboratory and analysts' and precision) is available upon request.

CHAIN OF CUSTODY FOR PLM/TEM BULK ASBESTOS ANALYSIS



Client: **RAVE ENGINEERING**
 Phone Number: **607-206-4044**
 Fax Number: **607-206-4044**
 Results/Contact: **DAVE DEYOUNG**
 Email Address for Data: **DDEYOUNG@RAVEENG.COM**
 Turn Around Time: 1 2 3 5 Other
 Date Sampled: **6/26/15**
 Friable Non Friable TEM
 Project Location: **DEWEY + DRIVING PARK 40-14-035**

OFFICE USE ONLY
 Job #: **7369.13**
 Page **6** of **8**
 Date Logged In: **6/26/15**
 Logged In By: **mm**

Client ID	Lab ID	Sampling Location	Color	Material Size	Type of Material
1	1A	DEWEY + DRIVING PARK CURB	GRAY	N/A	GROUT
2	1B	"	"	"	"
3	1C	"	"	"	"
4	2A	DEWEY + DRIVING PARK SIDEWALK	BROWN	"	EXPANSION JOINT
5	2B	"	"	"	"
6	2C	"	"	"	"
7					
8					
9					
#					

Sampled By: **DAVE DEYOUNG** Date: **6/26/15**
 Transported to Paradigm By: **TONY HILL** Date: **6/26/15**
 Received By: **Dustin Cavanaugh** Date: **6/26/15**

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: _____
TOTAL NUMBER OF SAMPLES ON ALL CHAINS OF CUSTODY: _____

ATTACHMENT C

Bulk Sample Location Plan

ASBESTOS ASSESSMENT REPORT

Dewey Avenue and Driving Park Avenue Realignment Project
PIN 4755.55



Legend

← Sample

MAP SOURCE:
 Google Earth



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

ASBESTOS ASSESSMENT REPORT
 DEWEY AVENUE AND DRIVING PARK AVENUE REALIGNMENT PROJECT
 PIN 4755.55
 CITY OF ROCHESTER, MONROE COUNTY, NEW YORK

PROJECT NO.
 40-14-035

DATE:
 JANUARY 2016

ATTACHMENT C: BULK SAMPLE LOCATION PLAN

SCALE:
 N.T.S.

DRAWING NO:
 1