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ASBESTOS AND LEAD ASSESSMENT

Former Eagle Gas 1395 US Hwy 395 North Gardnerville, Nevada 89410 Nevada Brownfields Program Task MA-02-14

Prepared for:

Nevada Division of Environmental Protection Nevada Brownfields Program 901 South Stewart Street, Suite 4001 Carson City, Nevada 89701

April 4, 2014

1.	INTRODUCTION	1
2.	SCOPE OF SERVICES	1
3.	ASBESTOS CONTAINING MATERIAL INSPECTION	1
4.	ASBESTOS ANALYTICAL RESULTS	1
5.	LEAD-BASED PAINT ASSESSMENT	2
6.	LEAD-BASED PAINT XRF ANALYZER RESULTS	3
7.	CONCLUSIONS/RECOMMENDATIONS	3
	7.1 Asbestos Containing Material Inspection7.2 Lead-Based Paint Assessment	3 4
8.	LIMITATIONS	4
9.	CLOSING	5

FIGURES

Figure 1	Project Location Map
Figure 2	Site Map Showing Locations of Sample Collection

APPENDICES

- Appendix A Laboratory Analytical Results
- Appendix B Chain-of-Custody Record
- Appendix C XRF Field Notes

1. INTRODUCTION

McGinley & Associates, Inc. (MGA) submits this report which presents the findings of our asbestos and lead based paint assessment of the "Former Eagle Gas" facility located in Gardnerville, Nevada. The assessment was conducted for the Town of Gardnerville in conjunction with the Nevada Division of Environmental Protection (NDEP) Brownfields program. The location of the subject site is indicated in Figure 1.

2. SCOPE OF SERVICES

The following scope of services were conducted as part of our asbestos and lead based paint assessment:

- Collection of five bulk samples of suspect asbestos containing material (ACM) building materials;
- Analytical testing of the suspect ACM;
- Conducting a lead based paint assessment using a XRF analyzer; and
- Preparation of this report of findings.

Each of these services are discussed in the following sections.

3. ASBESTOS CONTAINING MATERIAL INSPECTION

On January 9, 2014, an EPA accredited, and State of Nevada licensed asbestos inspector conducted an asbestos inspection and assessment at the above referenced location for the purpose of determining if asbestos was present in suspect building materials.

Five (5) representative bulk samples were collected from materials identified to have the potential to contain asbestos. Suspect materials that were sampled during this inspection included; floor tile with mastic, ceramic tile grout, ceramic tile mortar/thin set and roofing materials.

This inspection was conducted in accordance with accepted EPA and OSHA regulations. All samples were submitted under approved chain-of-custody protocol, and analyzed at Asbestos TEM Laboratories, Inc. in Sparks, Nevada. The suspect ACM samples were analyzed for asbestos fibers utilizing Polarized Light Microscopy (PLM). The laboratory analytical report is attached in Appendix A, and the chain of custody record is provided in Appendix B.

4. ASBESTOS ANALYTICAL RESULTS

In accordance with OSHA 29 CFR 1926.1101 and NESHAPS 40 CFR 61.141 the definition of an asbestos containing material is "any material which contains more than one percent asbestos by weight".

Analytical results indicated that one of the five bulk samples that were collected during this inspection was positive for containing asbestos in excess of one percent. Sample #RM-5(roof penetration mastic) contained 5-10% Chrysotile asbestos. All other materials sampled during this investigation were "None Detected" for containing asbestos. Analytical results and the laboratory chain-of-custody are provided in Appendix A and B respectively.

These sample results are limited to the materials that were identified and sampled during this inspection. If additional materials are discovered that have not been sampled and will be disturbed during the restoration project, then these materials would require additional sampling and analysis.

5. LEAD-BASED PAINT ASSESSMENT

On January 9, 2014, a lead-based paint inspector conducted a lead-based paint assessment of suspect painted surface coatings at the above referenced location. The lead-based paint assessment was accomplished by utilizing an Innov-X Alpha Series X-Ray Fluorescence (XRF) analyzer. XRF analyzers determine the chemistry of a sample by measuring the spectrum of the characteristic x-ray emitted by the different elements in the sample when it is illuminated by x-rays. When a sample is measured using XRF, each element present in the sample emits its own unique fluorescent x-ray energy spectrum. By simultaneously measuring the fluorescent x-rays emitted by the different elements in the sample, the XRF analyzer can rapidly determine the elements present in the sample and their relative concentrations.

The XRF analyzer was utilized on all colors of paint on the interior and exterior of the gas station building and associated gas pump canopy. Multiple readings were taken of each color of paint identified at the following locations:

Inside Gas Station Building

- Door Trim Blue Paint
- Office/Sink Room Olive Green Paint
- Walls and Ceilings White Paint
- Cement Floor Red Paint

Exterior of Gas Station Building

- Rear CMU Block Wall Grey Paint
- Exterior Walls, Sofitts and Roof Facia Blue/White Paint
- Structural Beams on Roof Red Paint

Gas Pump Canopy

- Canopy Facia White, Blue, Cream and Beige Paint
- Canopy Structural Poles Blue Paint
- Gas Pump Bollards Yellow Paint
- Structural Beams on Roof Red Paint

6. LEAD-BASED PAINT XRF ANALYZER RESULTS

The EPA definition of lead-based paint is when painted surface coatings contain 1.0 mg/cm^2 or greater, when using an XRF analyzer.

Readings from the XRF analyzer indicated that painted surface coatings located on the gas pump bollards, and on the canopy structural poles contained 1.0 mg/cm^2 of lead or greater. All other painted surface coatings located on the canopy and gas station building contained less than 1.0 mg/cm^2 of lead. Field notes providing XRF data from the assessment are provided in Appendix C.

7. CONCLUSIONS/RECOMMENDATIONS

As a result of information obtained from conducting this ACM inspection and LBP assessment, MGA recommends that procedures are acknowledged in order to maintain State of Nevada OSHA, federal OSHA and EPA regulatory compliance, and reduce liability and health concerns. The sections below describe those procedures for both asbestos containing material and lead-based paint.

7.1 Asbestos Containing Material Inspection

As a result of conducting this asbestos inspection, penetration mastics located on the roof of the gas station building were identified to contain greater than one percent asbestos. At the time of this inspection, the penetration mastics appeared to be in good condition, and, as long as the materials are not disturbed, do not appear to pose a health risk.

Roof penetration mastics are considered to be a non-friable material for the EPA and Nevada OSHA, and a non-classified material for federal OSHA. As a result, a Nevada certified asbestos abatement contractor is not required in order to remove or disturb these materials.

However, in order to maintain regulatory compliance and reduce liability and health concerns, MGA recommends that persons with asbestos training be utilized to perform any activities that would disturb the roofing penetration mastic materials.

7.2 Lead-Based Paint Assessment

As a result of information obtained from conducting this lead-based paint assessment, readings from the XRF analyzer indicated that that painted surface coatings located on the gas pump bollards and the canopy structural poles contained 1.0 mg/cm² of lead or greater. At the time of this assessment, the painted surfaces were in good condition and currently do not appear to pose a threat to human health. However, any future work activities that would disturb the painted surfaces should be conducted in accordance with OSHA Standard 1926.26 by individuals with proper training and personal protective equipment.

8. LIMITATIONS

MGA is not responsible for any claims or damages associated with the interpretation of information provided during this inspection. This report should not be regarded as a guarantee that no further lead-based paint or asbestos containing materials exists beyond that which was suspected, visually inspected and/or sampled during this inspection. In addition, asbestos and lead may not be distributed evenly throughout a particular material and MGA cannot guarantee that all materials sampled are exactly as represented throughout the entire building. In the event that renovation or demolition activities uncover materials that were previously hidden or inaccessible during the time of this inspection, additional sample collection and analysis may be required. In the event that materials that were previously hidden or inaccessible during the time of this inspection are disturbed and an exposure occurs, MGA shall be held harmless and will not be responsible for any claims made, financial or otherwise.

MGA makes no warranties or guarantees as to the accuracy or completeness of information obtained from, provided by, or compiled by others. It is possible that information exists beyond the scope of this investigation. This report is not a legal opinion. The services performed by MGA have been conducted in a manner consistent with the level of care ordinarily exercised by members of our profession currently licensed by the State of Nevada to perform this work, and practicing under similar conditions. No other warranty, expressed or implied, is made

9. CLOSING

MGA appreciates the opportunity to work with NDEP on this project. Should you have any questions regarding this report please contact the undersigned at (702) 260-4961.

Respectfully submitted, McGinley and Associates, Inc.

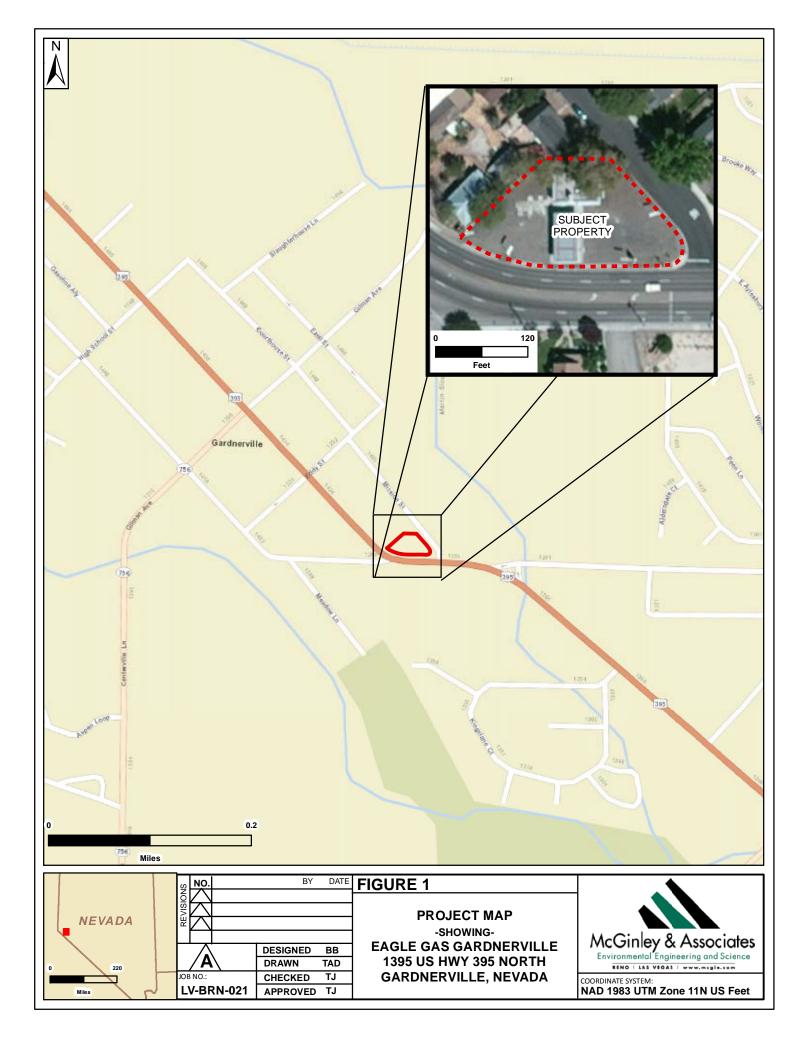
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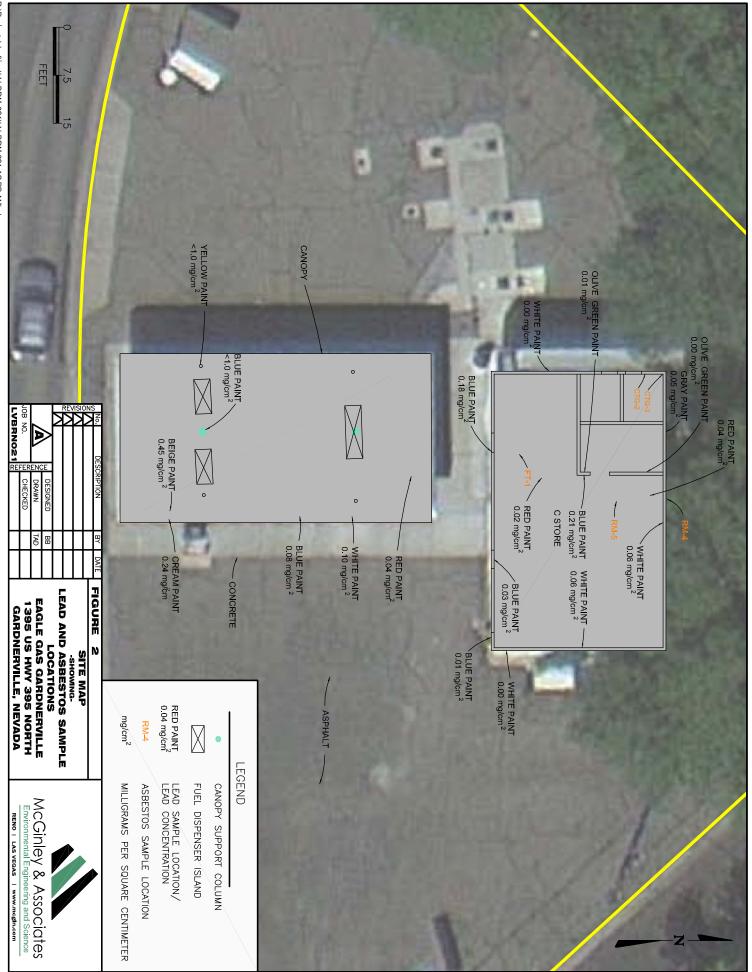
Gene E. Johnson Certified Nevada Asbestos Consultant License No. IJPM0604

Reviewed by:

I hereby certify that I am responsible for the services described in this document and for the preparation of this document. The services described in this document have been provided in a manner consistent with the current standards of the profession and to the best of my knowledge comply with all applicable federal, state and local statutes, regulations, and ordinances.

Brett Bottenberg, C.E.M. #1690, Exp. 10/07/2015 Senior Project Manager





APPENDIX A

Laboratory Analytical Results

Accredited by

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POLARIZED LIGHT MICROSCOPY ANALYTICAL REPORT

VLAP Lab Code 200104-0				EPORT 600/M4-82-020		Page:	<u>1</u> of <u>1</u>
Contact: Gene Johnson Address: C & G Environme P.O. Box 19476 Reno, NV 89511	Rental Consulting, Sp	Samples Indicated: 5 Reg. Samples Analyzed: 5 , Split Layers Analyzed: 5 Job Site / No. 13695 Main Street, Gardnerv 04010913		Report No. Date Submitted: Date Reported: ille	124726 Jan-13-14 Jan-15-14		
SAMPLE ID ASB		OTHER DATA 1) Non-Asbestos Fibers 2) Matrix Materials 3) Date/Time Collected TYPE 4) Date Analyzed		DESCRIPTION FIELD LAB			
FT-1	None Do	etected	1)1-5% Cellulo: 2)95-99% Plast	se , Calc, Qtz, Other m.p.	Station - entryway, f	loor tile/blac	k mastic
Lab ID # 867-02108-001A			3)	4) Jan-15-14	Floor Tile-Brown		
FT-1	None De	etected	1)1-5% Cellulo: 2) ^{95-99%} Tar, (se Other m.p.	Station - entryway, f	loor tile/blac	k mastic
Lab ID # 867-02108-001B			3)	4) Jan-15-14	Mastic-Black		
CTG-2	None Do	etected	1)<1% Cellulos 2) ^{100-100%} Qt	e z, Calc, Other m.p.	Bathroom, grout/mo	ortar	
Lab ID # 867-02108-002A			3)	4) Jan-15-14	Grout-Tan		
CTG-2	None De	etected	1)1-5% Cellulo: 2) ^{95-99%} Qtz,		Bathroom, grout/mo	ortar	
Lab ID # 867-02108-002B			3)	4) Jan-15-14	Mortar-Tan		
CTG-3		etected	1)None Detecte 2)99-100% Cla	d y, Gyp, Other m.p.	Bathroom, ceramic t	tile/thin set	
Lab ID # 867-02108-003A			3)	4)Jan-15-14	CerTile-Red/Whit	ie	
CTG-3	None De	etected	 1)<1% Cellulos 2)100-100% Ca m.p. 	e Ilc, Qtz, Gyp, Other	Bathroom, ceramic t	tile/thin set	
Lab ID # 867-02108-003B			3)	4) Jan-15-14	Thin Set-Grey		
RM-4	None De	etected	 20-30% Cellu 70-80% Tar, (North roof, asphalt r	oofing/felt/ta	r
Lab ID # 867-02108-004A			3)	4) Jan-15-14	Roofing-Black/Gr	rey	
RM-4	None De	etected	1)1-5% Cellulo 2)95-99% Tar, (North roof, asphalt r	oofing/felt/ta	ır
Lab ID # 867-02108-004B			3)	4) Jan-15-14	Tar-Black		
RM-4	None De	etected	1)50-60% Fiber 2)40-50% Tar, (glass Other m.p.	North roof, asphalt r		ır
Lab ID # 867-02108-004C			3)	4)Jan-15-14	Roofing Felt/Tar-	Black	
RM-5	5-10% Chrys	sotile	1)1-5% Cellulo: 2) ^{85-94%} Tar, (North roof, penetrati	ion mastic	
Lab ID # 867-02108-005			3)	4) Jan-15-14	Mastic-Black/Gre	у	

Limit of Quantitation of Method is Estimated to be 1% Asbestos Using a Visual Area Estimation Technique

Laboratory Analyst

Greg Hanes

ASBESTOS TEM LABORATORIES, INC. 1350 Freeport Blvd., Unit 104, Sparks, NV 89431 (775) 359-3377 With Main Office in Berkeley, CA (510) 704-8930

APPENDIX B

Chain-of-Custody Record

			Ph: (775) 746-3838 Fax: (775) 787-684 ORM / CHAIN-OF-CUSTODY RE	
DUL	Analysis Typ		Point Count TEM Lead	PORT
		-	8-his 24-his (2 Days) 3 Days	
Job S			GARONErville Job No. 0401	0913
P.O.		Contact person		
Sample number	Location		Description	
FT-1	570001 - Fal	forestres	Floor TIE Black M	y
CT6-2	BATHROOM	inguing	Hoor TIE Black II	LAST IC
(TG-3	BATHEROM		CERAMIC TILE / THIN SE	ort
Rm-4	North Roo	F	Asphalt RODFING/Felt /TA	S. 21
· 200-5		K	PENETRATION MASTE	~
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APPENDIX C XRF Field Notes

Former Eagle Gas Station – 1395 Main Street Gardnerville

January 9, 2014 – XRF Lead Sampling Inspection Field Notes:

Station Interior Readings

Door Trim - Blue Paint -0.18 mg/cm^2 Door Trim - Blue Paint -0.21 mg/cm^2 Office/Sink Room - Olive Green Paint -0.00 mg/cm^2 Office/Sink Room - Olive Green Paint -0.01 mg/cm^2 North Wall - White Paint -0.08 mg/cm^2 East Wall - White Paint -0.06 mg/cm^2 Cement Floor - Red Paint -0.02 mg/cm^2

Station Exterior Readings

Rear CMU Block Wall - Grey Paint -0.05 mg/cm^2 East Exterior Wall - White Paint -0.00 mg/cm^2 West Exterior Wall - White Paint -0.00 mg/cm^2 South Sofitt - Blue Paint -0.01 mg/cm^2 South Roof Facia - Blue Paint -0.03 mg/cm^2 Structural Beams on Roof - Red Paint -0.04 mg/cm^2

Canopy

Canopy Facia White Paint – 0.10 mg/cm² Blue Paint - 0.08 mg/cm² Cream Paint - 0.24 mg/cm² Beige Paint – 0.45 mg/cm²

Canopy Structural Poles - Blue Paint - >1.0 mg/cm² Gas Pump Bollards - Yellow Paint - >1.0 mg/cm² Structural Beams on Roof - Red Paint - 0.04 mg/cm^2