PREPARED FOR:

Indiana 15 Regional Planning Commission
221 East First Street
Ferdinand, Indiana 47532

Attn: Mr. Elliot Englert

Lead-Based Paint and Asbestos Investigation Report
for
Jasper Power Plant
1163 East 15th Street
Jasper, Indiana 47546

April 28, 2015

PREPARED BY:

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Cardno ATC Project No. 170IN1503H

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April 28, 2015

Mr. Elliot Englert
Indiana Regional Planning Commission
221 East First Street
Ferdinand, Indiana 47532

Subject: Lead-Based Paint and Asbestos Investigation Report
Jasper Power Plant
1163 East 15th Street
Jasper, Dubois County, Indiana
Cardno ATC Project No. 170IN1503H

Dear Mr. Englert:

Cardno ATC has completed the Lead-Based Paint and Asbestos Investigation for the Jasper Power Plant facility located at 1163 East 15th Street in Jasper, Indiana in accordance with the Professional Services Agreement between the Indiana 15 Regional Planning Commission and Cardno ATC dated January 21st, 2014. Should additional materials be discovered that are not included in the attached tables, these materials should be assumed to contain lead paint or asbestos until proven otherwise. The asbestos investigation was performed by Cardno ATC representatives Mr. Brian L. Kleeman from February 9 through 10, 2015 and Mr. Timothy Gish from March 2 through 6, 2015. The lead-based paint investigation was conducted by Mr. Gish from March 9 through 12, 2015. Our findings and conclusions are included herein.

We appreciate the opportunity to be of service to the Indiana 15 Regional Planning Commission on this project, and look forward to working with you on future projects. In the meantime, if you have questions or comments regarding the information in the report, please contact the undersigned below.

Sincerely,

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Executive Summary

From February 9 through 10 and March 2 through 12, 2015, Cardno ATC performed a limited Lead-Based Paint (LBP) and Asbestos Investigation for the Jasper Power Plant facility located at 1163 East 15th Street in Jasper, Dubois County, Indiana. Photographs of the building exterior and interior are included in **Appendix A**. Lead content was determined on select painted surfaces by utilizing a portable Niton X-Ray Fluorescence analyzer (XRF) S/N 6993. The inspection, sampling and analytical procedures were performed in general accordance with the United States Environmental Protection Agency's (USEPA's) rules and regulations as well as guidelines of the Asbestos Hazard Emergency Response Act (AHERA), the Housing and Urban Development (HUD), the Occupational Safety & Health Administration's (OSHA's) Lead in Construction Standard, and the National Institute of Occupational Safety and Health (NIOSH).

A total of five hundred thirty-five (535) XRF readings were collected at the site. Forty-three (43) of the five hundred thirty-five (535) readings were at or above the 1.0 mg\cm^2 cutoff for lead based paint. As determined by HUD, USEPA and the Indiana Department of Environmental Management (IDEM) the painted samples greater than or equal to 1.0 mg\cm^2 are considered to be lead based paints. The Occupational Safety and Health Administration (OSHA) CFR 1926.26 requires that any detectable levels of lead be communicated as lead-containing. The following paints were found to be LBP:

Component	Substrate	Side	Color	Floor	Location
Handrail	Metal	B	Green	Basement	Transformer Area
Containment Berm	Concrete	Lower	Yellow	Basement	Below Turbine Deck
Pipe Valve 2 inch	Metal	A	Light Gray	Basement	Below Turbine Deck
Pipe Valve 2 inch	Metal	A	Green	Basement	Below Turbine Deck
Valve Handle	Metal	C	Yellow	Basement	Below Turbine Deck
Circulating Water Outlet	Metal	C	Green	Basement	Below Turbine Deck
Valve Assembly	Metal	C	Yellow	Basement	Below Turbine Deck
Air Compressor Tank	Metal	D	Orange	First	Main Area
Wall	Metal	B	Gray	First	Main Area
Airline 1 inch	Metal	B	Orange	First	Main Area
Cation Tank	Metal	C	Gray	First	Main Area
Anion Tank	Metal	C	Gray	First	Main Area
Air Injector	Metal	Left	Yellow	First	Upper Level
Air Injector	Metal	Left	Yellow	First	Upper Level
Air Injector	Metal	Left	Yellow	First	Upper Level
Electrical Conduit	Metal	Lower	Gray	Second	Turbine Deck
Wall	Metal	D	Green	Second	Turbine Deck
Pipe 4 inch	Metal	A	Orange	Second	Boiler Area
Pipe 2 inch	Metal	A	Gray	Second	Boiler Area
Door Frame	Concrete	A	Gray	Second	Bathroom
Door Frame	Metal	A	Gray	Second	Bathroom
Pipe 1 inch	Metal	A	Orange	Second	Gas Burner
Pipe 4 inch	Metal	A	Orange	Third	Boiler
Wall	Metal	B	Green	Third	Main Area
Pipe 2 inch Ball Valve	Metal	C	Gray	Third	Surge Tank
Support Column	Metal	C	Light Gray	Third	D. A. Tank
Gantry	Metal	C	Yellow	Third	Gantry Area
Gantry Catwalk	Metal	C	Yellow	Third	Gantry Area
Handrail	Metal	C	Green	Fourth	Boiler
Handrail	Metal	D	Green	Fourth	Roof Access
Pipe 2 inch Ball Valve	Metal	C	Light Gray	Fourth	Southeast Corner

Component	Substrate	Side	Color	Floor	Location
Conveyor Support	Metal	D	Light Gray	Fourth	Coal Room
Conveyor Base	Metal	D	Light Gray	Fifth	Coal Room
Tripper Cart	Metal	D	Light Gray	Fifth	Coal Room
Upper Belt	Metal	D	Light Gray	Fifth	Coal Room
Upper Conveyor	Metal	D	Light Gray	Fifth	Coal Room
Window	Metal	A	Green	Fifth	East Roof
Pipe 3 inch	Metal	B	Orange	Fourth	Ash Silo Roof
Handrail	Metal	B	Green	Fourth	Ash Silo Roof
Half Wall	Metal	A	Black	Fourth	West Roof
Handrail	Metal	B	Green	Fourth	West Roof
Foundation	Concrete	C	Yellow	Fourth	Power Plant
Bollard	Metal	A	Yellow	Fourth	Power Plant

The Occupational Safety and Health Administration (OSHA) states paint results with any detectable level of lead must be addressed as a Lead-Containing Paint that could become an exposure hazard to workers who disturb these coated surfaces during demolition or renovation activities as detailed in 29 CFR 1926.62. The forty-three (43) LBP paints and fifty-one (51) additional paints are considered to be Lead-Containing Paint. The fifty-one (51) additional paints included the following:

Component	Substrate	Side	Color	Floor	Location
Wall	Concrete	C	Green	First	Foyer
Ceiling	Metal	Upper	White	First	Foyer
Stringer	Metal	A	Black	Basement	Transformer Area
Riser	Metal	A	Black	Basement	Transformer Area
Handrail	Metal	D	Green	Basement	Lower Level
Pipe 2 inch	Metal	A	Gray	Basement	Below Turbine Deck
Valve Assembly	Metal	D	Red	Basement	Below Turbine Deck
Handrail	Metal	C	Green	Basement	Below Turbine Deck
Stringer	Metal	C	Black	Basement	Below Turbine Deck
Stringer	Metal	A	Black	First	Main Area
Handrail	Metal	A	Green	First	Main Area
Column	Metal	A	Gray	First	Main Area
Central Vacuum	Metal	Lower	Light Gray	First	Main Area
Lower Tank Regulator	Metal	C	Green	First	Main Area
Lower Tank Valve Assembly	Metal	C	Green	First	Main Area
Steam Feed Pump	Metal	C	Black	First	Main Area
Electric Feed Pump	Metal	C	Gray	First	Main Area
Electric Feed Pump	Metal	C	Black	First	Main Area
Handrail	Metal	Left	Green	First	Upper Level
Oil Tank Turbine	Metal	C	Green	First	Upper Level
Oil Tank Turbine	Metal	C	Green	First	Upper Level
Floor	Metal	Lower	Black	First	Turbine Deck
Window Frame	Metal	D	Gray	First	Turbine Deck
Handrail	Metal	A	Green	Second	Boiler Area
Stringer	Metal	A	Black	Second	Boiler Area
Air Intake Duct	Metal	B	Gray	Second	Boiler Area
Pipe 1 inch	Metal	A	Orange	Second	Boiler Area
Heater Pump Motor	Metal	C	Green	Second	Boiler Area

Component	Substrate	Side	Color	Floor	Location
Handrail	Metal	A	Green	Third	Boiler
Column	Metal	A	Gray	Third	Main Area
Valve Assembly Handle	Metal	C	Black	Third	Economizer
Forced Draft Air	Metal	C	Gray	Third	Main Area
Valve Assembly	Metal	C	Black	Fourth	600 psi Steam Line
Pipe Ball Valve 1.5 inch	Metal	C	Black	Fourth	Steam Drum
Forced Air Duct	Metal	C	Light Gray	Fourth	Boiler
Wall	Metal	B	Green	Fourth	Economizer
Stringer	Metal	D	Black	Fourth	Roof Access
Wall	Metal	C	Green	Fourth	Coal Room
Handrail	Metal	D	Green	Fifth	Coal Room
Machine Guard	Metal	D	Light Gray	Fifth	Coal Room
Flashing	Metal	C	Green	Fifth	East Roof
Wall	Metal	A	Daiquiri Ice	Fifth	East Roof
Handrail	Metal	A	Green	Fifth	East Roof
Stringer	Metal	A	Black	Fifth	East Roof
Stringer	Metal	B	Gray	Fourth	West Roof
Valve Assembly Handle	Metal	A	Green	First	Cooling Tower
Pipe 36 inch	Metal	A	Gray	First	Cooling Tower
Control Panel	Metal	A	Gray	First	Cooling Tower
Pipe 4 inch	Metal	A	Green	First	Chemical Storage
Wall	Metal	C	Gray	Fourth	Power Plant
Wall	Metal	D	Tan	Fourth	Power Plant

A total of one-hundred twelve (112) homogenous areas (HAs) were identified as suspect asbestos containing materials (ACM) with samples submitted for laboratory analysis. Laboratory analysis indicated that thirty-three (33) of the one-hundred twelve (112) HAs were found to contain asbestos concentrations greater than one percent (>1%). **Results of this investigation indicated the presence of regulated ACM that would require special removal prior to disturbing these materials for demolition or renovation of the on-site buildings.**

It should be noted that Asphalt Roofing Material is reportedly present underneath the current roof of the Plant. Based on the Owner's request, this material was not sampled in order to prevent damage to the rubber membrane roofing. For the purposes of this report, Cardno ATC assumes that the Asphalt Roofing Material is a Category I, non-friable ACM. Should suspect materials be identified that are not included the attached tables. Cardno ATC recommends that an Indiana licensed Asbestos Building Inspector and/or Lead Risk Assessor be called to the site to investigate any such material.

A complete listing of sampled painted surfaces, sampled suspect asbestos containing materials, and analytical results can be found in the report text and attached tables.

1.0 Introduction

Cardno ATC performed a limited Lead-Based Paint (LBP) and Asbestos Investigation for the Jasper Power Plant facility located at 1163 East 15th Street in Jasper, Indiana, hereinafter referred to as the site. The LBP and asbestos survey was conducted by Cardno ATC representatives, Mr. Timothy R. Gish (Indiana Lead Risk Assessor License No. IND000983, expiring March 13, 2015 / Indiana Asbestos Building Inspector License No. 195423045, expiring November 1, 2015) and Mr. Brian L. Kleeman, LPG (Indiana Asbestos Building Inspector License No. 19A000989, expiring June 15, 2015). Copies of the current state certifications for the Cardno ATC employees are presented in **Appendix B**.

The lead based paint survey included an XRF survey of painted walls, doors, ceilings and other surfaces that will or may be impacted by renovation or demolition activities associated with the facility.

The asbestos survey included visual observation of the various construction components within the facility, collection of bulk samples of suspect asbestos containing materials and submission of bulk samples to the laboratory for analysis.

2.0 Sampling and Analytical Procedures

2.1 Lead Based Paint Sampling

Cardno ATC's lead based paint survey included testing of painted and/or coated surfaces. Cardno ATC collected five hundred thirty-five (535) XRF readings to confirm areas of lead-based paint for operation and maintenance purposes in accordance with EPA and OSHA. EPA establishes that lead-based paint is paint that contains greater than or equal to 1.0 mg/cm^2, 5,000 ppm or 0.5 percent of lead by weight. For OSHA compliance purposes, OSHA's "Lead in Construction Standard" (29 CRF 1926.62) addresses **any** concentration of lead in paint. The lead in paint analysis was performed utilizing a portable Niton X-Ray Fluorescence analyzer (XRF) S/N 6993.

During the inspection process Cardno ATC used the following criteria to identify sampling locations. The "A" wall is labeled as the wall that the included the main entry/exit to the building. The wall to the inspector's right is labeled as the "B" wall, the "C" wall is the wall opposite the "A" wall, and the "D" wall is the wall to the inspector's left or the wall opposite the "B" wall. This labeling scheme was used throughout the building regarding the LBP investigation.

The XRF is a complete lead paint analysis system that quickly, accurately, and non-destructively measures the concentration of LBP on surfaces. The analyzer has the ability to analyze and compute corrections for the differences in the energy spectrums relating to different substrates. This analysis of the energy spectrum means that the lead paint reading displayed on the instrument already accounts for any substrate effects and correction is not required by the operator. A summary of the painted surfaces tested is included in **Table 1**.

2.2 Asbestos Sampling Procedures

Representative bulk samples of suspect asbestos-containing building materials identified during the asbestos inspection were collected for laboratory analysis. A summary of materials submitted for laboratory analysis is included in **Table 2**.

The number of samples collected from each homogenous area (HA) depended on the extent of the impact from any future and/or potential construction on the assumed material, category of HA the assumed material fell into, and the amount of material. It should be noted that additional suspect asbestos containing materials (ACMs) might exist in inaccessible or concealed spaces that can only be revealed through destructive sampling or full demolition activities. These inaccessible or concealed spaces include, but are not limited to, pipe chases, spaces between wall/ceiling cavities, inaccessible areas of shafts, interior of mechanical components such as interior ducts, and below grade slab, etc.

A total of one hundred twelve (112) HAs were sampled and submitted for laboratory analysis, as discussed in Section 3.0 of this report.

Bulk Asbestos Analysis Methodology

Bulk samples were collected by Mr. Brian L. Kleeman and Mr. Timothy R. Gish and analysis was performed by EMSL Analytical, Inc. located at 2001 East 52nd Street in Indianapolis, Indiana. Bulk samples were analyzed by Polarized Light Microscopy (PLM) using the Environmental Protection Agency's Test Method: Method for the Determination of Asbestos in Building Materials (EPA 600/R-93/116 July, 1993), and 400 Point Count / Gravimetric Reduction Methods. Some materials collected as one (1) bulk sample may be analyzed as two (2) distinct layers (i.e. one (1) floor tile will be collected and submitted however the lab will analyze the floor tile and associated mastic as two (2) separate materials). EMSL is accredited by The National Voluntary Laboratory Accreditation Program (NVLAP) and the American Industrial Hygiene Association (AIHA).

Based on one (1) positive test result, the homogeneous area is considered asbestos containing. If all samples collected from a homogeneous area resulted in non-detectable asbestos results, the homogenous area is considered non-asbestos containing. The laboratory analysis report and chain-of-custody form are provided in **Appendix C**.

3.0 Findings

3.1 Lead-Based Paint Results

The following paints were found to be LBP:

Component	Substrate	Side	Color	Floor	Location
Handrail	Metal	B	Green	Basement	Transformer Area
Containment Berm	Concrete	Lower	Yellow	Basement	Below Turbine Deck
Pipe Valve 2 inch	Metal	A	Light Gray	Basement	Below Turbine Deck
Pipe Valve 2 inch	Metal	A	Green	Basement	Below Turbine Deck
Valve Handle	Metal	C	Yellow	Basement	Below Turbine Deck
Circulating Water Outlet	Metal	C	Green	Basement	Below Turbine Deck
Valve Assembly	Metal	C	Yellow	Basement	Below Turbine Deck
Air Compressor Tank	Metal	D	Orange	First	Main Area
Wall	Metal	B	Gray	First	Main Area
Airline 1 inch	Metal	B	Orange	First	Main Area
Cation Tank	Metal	C	Gray	First	Main Area
Anion Tank	Metal	C	Gray	First	Main Area
Air Injector	Metal	Left	Yellow	First	Upper Level
Air Injector	Metal	Left	Yellow	First	Upper Level
Air Injector	Metal	Left	Yellow	First	Upper Level
Electrical Conduit	Metal	Lower	Gray	Second	Turbine Deck
Wall	Metal	D	Green	Second	Turbine Deck
Pipe 4 inch	Metal	A	Orange	Second	Boiler Area
Pipe 2 inch	Metal	A	Gray	Second	Boiler Area
Door Frame	Concrete	A	Gray	Second	Bathroom
Door Frame	Metal	A	Gray	Second	Bathroom
Pipe 1 inch	Metal	A	Orange	Second	Gas Burner
Pipe 4 inch	Metal	A	Orange	Third	Boiler
Wall	Metal	B	Green	Third	Main Area
Pipe 2 inch Ball Valve	Metal	C	Gray	Third	Surge Tank
Support Column	Metal	C	Light Gray	Third	D. A. Tank
Gantry	Metal	C	Yellow	Third	Gantry Area
Gantry Catwalk	Metal	C	Yellow	Third	Gantry Area
Handrail	Metal	C	Green	Fourth	Boiler

Component	Substrate	Side	Color	Floor	Location
Handrail	Metal	D	Green	Fourth	Roof Access
Pipe 2 inch Ball Valve	Metal	C	Light Gray	Fourth	Southeast Corner
Conveyor Support	Metal	D	Light Gray	Fourth	Coal Room
Conveyor Base	Metal	D	Light Gray	Fifth	Coal Room
Tripper Cart	Metal	D	Light Gray	Fifth	Coal Room
Upper Belt	Metal	D	Light Gray	Fifth	Coal Room
Upper Conveyor	Metal	D	Light Gray	Fifth	Coal Room
Window	Metal	A	Green	Fifth	East Roof
Pipe 3 inch	Metal	B	Orange	Fourth	Ash Silo Roof
Handrail	Metal	B	Green	Fourth	Ash Silo Roof
Half Wall	Metal	A	Black	Fourth	West Roof
Handrail	Metal	B	Green	Fourth	West Roof
Foundation	Concrete	C	Yellow	Fourth	Power Plant
Bollard	Metal	A	Yellow	Fourth	Power Plant

Additionally, the Occupational Safety and Health Association (OSHA) states results of any detectable level of lead must be addressed as a Lead-Containing Paint that could become an exposure hazard to workers who disturb these coated surfaces during demolition or renovation activities as detailed in 29 CFR 1926.62. Lead-Containing Paint is present at the site. The forty-three (43) LBP paints and fifty-one (51) additional paints are considered to be Lead-Containing Paint. The fifty-one (51) additional paints included the following:

Component	Substrate	Side	Color	Floor	Location
Wall	Concrete	C	Green	First	Foyer
Ceiling	Metal	Upper	White	First	Foyer
Stringer	Metal	A	Black	Basement	Transformer Area
Riser	Metal	A	Black	Basement	Transformer Area
Handrail	Metal	D	Green	Basement	Lower Level
Pipe 2 inch	Metal	A	Gray	Basement	Below Turbine Deck
Valve Assembly	Metal	D	Red	Basement	Below Turbine Deck
Handrail	Metal	C	Green	Basement	Below Turbine Deck
Stringer	Metal	C	Black	Basement	Below Turbine Deck
Stringer	Metal	A	Black	First	Main Area
Handrail	Metal	A	Green	First	Main Area
Column	Metal	A	Gray	First	Main Area
Central Vacuum	Metal	Lower	Light Gray	First	Main Area
Lower Tank Regulator	Metal	C	Green	First	Main Area
Lower Tank Valve Assembly	Metal	C	Green	First	Main Area
Steam Feed Pump	Metal	C	Black	First	Main Area
Electric Feed Pump	Metal	C	Gray	First	Main Area
Electric Feed Pump	Metal	C	Black	First	Main Area
Handrail	Metal	Left	Green	First	Upper Level
Oil Tank Turbine	Metal	C	Green	First	Upper Level
Oil Tank Turbine	Metal	C	Green	First	Upper Level
Floor	Metal	Lower	Black	First	Turbine Deck
Window Frame	Metal	D	Gray	First	Turbine Deck
Handrail	Metal	A	Green	Second	Boiler Area
Stringer	Metal	A	Black	Second	Boiler Area
Air Intake Duct	Metal	B	Gray	Second	Boiler Area

Component	Substrate	Side	Color	Floor	Location
Pipe 1 inch	Metal	A	Orange	Second	Boiler Area
Heater Pump Motor	Metal	C	Green	Second	Boiler Area
Handrail	Metal	A	Green	Third	Boiler
Column	Metal	A	Gray	Third	Main Area
Valve Assembly Handle	Metal	C	Black	Third	Economizer
Forced Draft Air	Metal	C	Gray	Third	Main Area
Valve Assembly	Metal	C	Black	Fourth	600 psi Steam Line
Pipe Ball Valve 1.5 inch	Metal	C	Black	Fourth	Steam Drum
Forced Air Duct	Metal	C	Light Gray	Fourth	Boiler
Wall	Metal	B	Green	Fourth	Economizer
Stringer	Metal	D	Black	Fourth	Roof Access
Wall	Metal	C	Green	Fourth	Coal Room
Handrail	Metal	D	Green	Fifth	Coal Room
Machine Guard	Metal	D	Light Gray	Fifth	Coal Room
Flashing	Metal	C	Green	Fifth	East Roof
Wall	Metal	A	Daiquiri Ice	Fifth	East Roof
Handrail	Metal	A	Green	Fifth	East Roof
Stringer	Metal	A	Black	Fifth	East Roof
Stringer	Metal	B	Gray	Fourth	West Roof
Valve Assembly Handle	Metal	A	Green	First	Cooling Tower
Pipe 36 inch	Metal	A	Gray	First	Cooling Tower
Control Panel	Metal	A	Gray	First	Cooling Tower
Pipe 4 inch	Metal	A	Green	First	Chemical Storage
Wall	Metal	C	Gray	Fourth	Power Plant
Wall	Metal	D	Tan	Fourth	Power Plant

A listing of sampled painted surfaces and laboratory results can be found in **Table 1.**

3.2 Asbestos Results

A material is considered by the EPA and the IDEM to be asbestos-containing if at least one (1) sample collected from the homogenous area has asbestos present in concentrations greater than one percent (>1 %). Laboratory analysis indicated that thirty-three (33) of the one hundred twelve (112) HAs sampled by Cardno ATC were found to contain asbestos concentrations greater than one percent (>1 %). The table below summarizes the ACMs found at the Jasper Power Plant based on laboratory analytical results:

Sample Number(s)	HA Number	Material Description	Sample Location(s)
JPP-01,78, 101	1	Gray Wall Coating	Storage Building Main Area, Plant Second through Fifth Floors and Exterior
JPP-10	10	Gray Compressed Gasket Material	Storage Building Main Area
JPP-26	21	Black Asphalt Roofing Material	Maintenance Building Garage
JPP-29	23	1/2" Gray Mechanical Packing	Maintenance Building Garage
JPP-30	24	7/16" Gray Mechanical Packing	Maintenance Building Garage
JPP-31	25	5/8" Gray Mechanical Packing	Maintenance Building Garage
JPP-32	26	5/16" Gray Mechanical Packing	Maintenance Building Garage
JPP-33	27	3/16" Gray Mechanical Packing	Maintenance Building Garage
JPP-34	28	1/8" Gray Mechanical Packing	Maintenance Building Garage
JPP-38	32	1" Yellow Gaskets	Maintenance Building Garage
JPP-39	33	3" Brown Gaskets	Maintenance Building Garage

Sample Number(s)	HA Number	Material Description	Sample Location(s)
JPP-40,77	34	1" White Gaskets	Maintenance Building Garage, Plant First Floor
JPP-41	35	1" White Gasket Rings	Maintenance Building Mezzanine, Plant Office No.4
JPP-42	36	1/2" White Gaskets	Maintenance Building Mezzanine
JPP-43	37	1" White Rope Insulation	Maintenance Building Mezzanine
JPP-46	40	3/8" White Mechanical Packing	Maintenance Building Mezzanine
JPP-47	41	1/4" White Mechanical Packing	Maintenance Building Mezzanine
JPP-60,69	48	Black Pipe Coating	Cooling Tower Exterior, Plant Basement
JPP-61	49	Black Pipe Coating	Cooling Tower Exterior
JPP-70	55	White Pipe Insulation	Plant Basement
JPP-74	59	White Pipe Compound	Plant First Floor
JPP-84	65	9"x9" Green Floor Tile and Mastic	Plant Second Floor Restroom
JPP-87	68	Gray Insulation	Plant Operator's Area
JPP-88	69	1/8" Black Gasket Rings	Plant Office No.4
JPP-89	70	1" Black Gasket Rings	Plant Office No.4
JPP-116	93	Gray Wall Coating	Plant Exterior - Fourth Floor West Roof
JPP-120	97	White Hard Pack Fitting	Plant Basement-Condensate Return Tank
JPP-121	98	White Hard Pack Fitting	Plant Basement-Bottom of Air Injector
JPP-123	100	White Hard Pack Fitting	Plant First Floor-Feed Pump Area
JPP-124	101	Brown Hard Pack Fitting	Plant First Floor-Steam Feed Pump
JPP-130	107	White Hard Pack Fitting	Plant Second Floor-Emergency Water Line
JPP-131	108	White Hard Pack Fitting	Plant Second Floor-Heating Steam Line
JPP-135	111	Gray Joint Caulk	Plant Third Floor-D.A. Tank Control Valve

The Gray Compressed Gasket Material (HA 10), Black Asphalt Roofing Material (HA 21), Gray Mechanical Packing (HAs 23 to 28), 1" Yellow Gaskets (HA 32), 3" Brown Gaskets (HA 33), 1" White Gaskets (HA 34), 1" White Gasket Rings (HA 35), ½" White Gaskets (HA 36), White Mechanical Packing (HAs 40 and 41), Black Pipe Coating (HAs 48 and 49), White Pipe Compound (HA 59), 9"x9" Green Floor Tile (HA 65), 1/8 " Black Gasket Rings (HA 69), 1" Black Gasket Rings (HA 70), and Gray Joint Caulk (HA 111) are considered Category I or II, non-friable ACMs and are not subject to removal as a RACM as outlined in the NESHAP for Asbestos.

According to the Owner, Asphalt Roofing Material (HA 91) is present underneath the current roof of the Plant. Based on the Owner's request, this material was not sampled in order to prevent damage to the rubber membrane roofing. For the purposes of this report, Cardno ATC assumes that the Asphalt Roofing Material is a Category I, non-friable ACM. However, the roofing should be further evaluated prior to disturbance from demolition or renovation to determine potential asbestos content and/or friability. A total of approximately 9,776 square feet and 1,757 linear feet of Category I or II Non-Friable ACM's are present at the site.

The White Window Caulk (HAs 20, 44, and 60) located on the Maintenance Building, the Cooling Tower Pump House, and the Plant do contain asbestos at concentrations of 0.50 percent Chrysotile or less as reported by the Point Count Method. The Gray Stucco (HA 102) located in the Plant Fifth Floor Coal Room also contains asbestos at a concentration of 0.5% Chrysotile via Point Count Method. Per the EPA AHERA rule these materials are not considered regulated ACMs; however, because analysis of the caulking and stucco did report asbestos fibers in the matrix, the client should inform maintenance workers that the window caulking and stucco contain asbestos fibers, and if these materials are to be disturbed to follow OSHA 29 CFR 1926.1101 Safety Construction Asbestos Standard.

Table 2 details the sampling information for this investigation, including the sample number, the HA number of each sampled material, descriptions of the materials sampled, each sample location, and the analytical results for each sample. A copy of the laboratory report sheet and sample chain-of-custody sheet for this asbestos investigation are included in **Appendix C**. A figure is provided depicting the approximate sampling locations. The numbers on the sample location map correspond to the bulk sample numbers on the chain of custody sheet.

4.0 Conclusions

Cardno ATC has completed a LBP and Asbestos Investigation of the Jasper Power Plant facility located at 1163 East 15th Street in Jasper, Dubois County, Indiana. The following presents our conclusions and recommendations based on our findings for this location.

4.1 Lead Based Paint

Lead in paint has been identified that requires lead-safe work practices and lead-based hazard controls to be implemented for any hazard control activity, repair, remodeling, or renovation effort and any other work efforts that may disturb known or assumed lead-based paint in amounts that are above HUD's de minimis (small or minimal) levels. Details concerning lead-safe work practices and acceptable lead-based paint hazard control methods can be found in the HUD "Guidelines for the Evaluation and Control of Lead-Based Paint Hazards in Housing." This document is available from the Web at www.hud.gov/offices/lead.

Workers disturbing lead-based paint during maintenance, repair, or rehabilitation activities above HUD's de minimis (small or minimal) levels and any other work efforts that may disturb known or assumed lead-based paint in amounts that are above HUD's de minimis (small or minimal) levels must be trained in lead-safe work practices. Information regarding painting, home maintenance, and renovation work can be referenced in Lead Paint Safety: Field Guide for Painting, Home Maintenance, and Renovation Work (Source: HUD/EPA/CDC). The field guide is available from the HUD web site above, in English and Spanish. Information regarding lead-safe work practices training courses is available at The Lead Listing (www.leadlisting.org) and the HUD Office of Healthy Homes and Lead Hazard Control web site (www.hud.gov/offices/lead) links to "Lead Training" and "Lead Training Curricula."

The Occupational Safety and Health Administration (OSHA) in regards to the regulation of occupational exposure to lead, requires the employer to perform an initial determination which requires the employer to monitor workers' exposure unless the employer has objective or historical data that can reliably demonstrate that no employee will be exposed to lead at or above the action level. OSHA's does not consider any method that relies solely on the analysis of bulk materials or surface content of lead to be acceptable for safely predicting employee exposure to airborne contaminants. Without air monitoring results or without the benefit of historical or objective data (including air sampling which clearly demonstrates that the employee cannot be exposed at or above the action level during any process, operation, or activity), as required by 29 CFR 1910.1025 or 29 CFR 1926.62, the employer cannot rule out the possibility of excess worker exposure to airborne lead.

OSHA CFR 1926.26 requires that any detectable levels of lead be communicated as lead containing.

Cardno ATC recommends contractors be informed of the presence of lead. OSHA's standard includes an 8-hour time weighted average (TWA) of 50 micrograms of lead per cubic meter of air (µg/m^3) and an action level (regardless of respirator use) of 30 µg/m^3. Although the standard emphasizes exposure assessment for individual job tasks, varying levels of worker protection are required of the contractor for certain tasks, including, but not limited to the following activities involving lead-based and lead-containing paint:

- Manual demolition of structures, manual scraping, manual sanding, and use of heat guns where lead-containing coatings or paints are present;
- Abrasive blasting enclosure movement and removal;
- Power tool cleaning;
- Lead burning;

- Using lead-containing mortar or spray painting with lead-containing paint;
- Abrasive blasting, rivet busting, or welding, cutting, or burning on any structure where lead-containing coatings or paint are present;
- Cleanup activities where dry expendable abrasives are used; and
- Any other task the employer believes may cause exposures in excess of the permissible exposure limit (PEL).

The building owner should prohibit the use of torch cutting or heat processes to remove the paint from all surfaces that are within these limits. If abrasive blasting (i.e., sandblasting, etc.) is to be performed, Cardno ATC recommends that the appropriate methods of containing the work area and personal protective equipment be utilized (i.e. respirator protection, eye protection, coveralls, etc.).

Surfaces that were not sampled or hidden painted surfaces that were not tested (due to scope of work) may contain some percentages of lead, and would therefore require the Contractor performing demolition work in those areas to comply with OSHA's Lead Regulations. If the hidden paint is discovered by the renovation activity, then all activity associated with the disturbance, handling and disposal of any suspect lead paint must comply with the OSHA Lead Standard 1926.62 and state regulations for the disposal of the lead paint until proven otherwise by testing.

4.2 Asbestos

Cardno ATC conducted an asbestos survey of the Jasper Power Plant facility located at 1163 East 15th Street in Jasper, Dubois County, Indiana. Visual reconnaissance indicated the presence of both suspect, friable and non-friable ACM. Laboratory PLM testing indicated asbestos content greater than 1% was present in thirty-three (33) of the one hundred twelve (112) HA's sampled and are summarized in Section 3.2.

According to the Owner, Asphalt Roofing Material (HA 91) is present underneath the current roof of the Plant. Based on the Owner's request, this material was not sampled in order to prevent damage to the rubber membrane roofing. For the purposes of this report, Cardno ATC assumes that the Asphalt Roofing Material is a Category I, non-friable ACM. However, the roofing should be further evaluated prior to disturbance from demolition or renovations to determine potential asbestos content and/or friability

The White Window Caulk (HAs 20, 44, and 60) located on the Maintenance Building, the Cooling Tower Pump House, and the Plant do contain asbestos at concentrations of 0.50 percent Chrysotile or less as reported by the Point Count Method. The Gray Stucco (HA 102) located in the Plant Fifth Floor Coal Room also contains asbestos at a concentration of 0.5% Chrysotile via Point Count Method. Per the EPA AHERA rule these materials are not considered regulated ACMs; however, because analysis of the caulking and stucco did report asbestos fibers in the matrix, the client should inform maintenance workers that the window caulking and stucco contains asbestos fibers, and if these materials are to be disturbed to follow OSHA 29 CFR 1926.1101 Safety Construction Asbestos Standard.

Information is given in **Table 3** for materials observed throughout the buildings. Photographs of interior and exterior of the buildings are included in **Appendix A**. This is to document that a complete inspection was performed and to meet the current OSHA regulations which do not allow non-accredited persons to designate that any surfacing or thermal system insulations are non-asbestos. Accredited asbestos inspectors can, however, declare certain materials to be non-asbestos without sampling them, based on their observations made during an inspection.

Known ACMs were identified at the project site. These ACMs must be removed prior to renovating or demolishing the structure. Proper notification must be made to the Indiana Department of Environmental Management using State Form 44593 (R2/8-99) prior to beginning any renovation or demolition projects at the structure.

Removal Plan

Renovation or Demolition activities are likely to cause disturbance of the known ACMs listed in **Table 4**; therefore removal of these materials prior to disturbance or demolition is required. An asbestos abatement contractor that meets all applicable federal, state and local regulations must be used for the removal of more than 3 linear feet, 3 square feet, or 0.75 cubic feet of friable material. A total of approximately 39,802 square feet, 328 linear feet, and 4 cubic feet of regulated ACMs must be removed prior to disturbing or demolishing the Jasper Power Plant facility located at 1163 East 15th Street in Jasper, Indiana.

The Indiana Department of Environmental Management (IDEM) has issued guidance indicating that Category I and II non-friable ACMs can be removed without special preparation, such as double bagging and labeling. Non-friable, Category I and II ACMs are generally not RACM, but could become RACM if they are handled such that they are made friable. **Table 5** contains a listing of the Category I or II non-friable ACMs which are not RACM, but could become RACM if they are subjected to grinding, sanding, abrading or otherwise made friable during renovation or demolition operations.

If a building's demolition is performed employing methods of removal for non-friable, presumed ACMs in such a manner where the materials will not become friable, then those materials are not required to be removed prior to the demolition. The materials can be left in place during the demolition and disposed of as general construction debris. Table 5 - Category I or II Non-friable ACMs lists those Category I or II non-friable materials that could be left in place for demolition if the above outlined conditions are met. A total of approximately 9,776 square feet and 1,757 linear feet of known Category I or II non-friable ACMs were observed at the site. Furthermore, the EPA has allowed for certain Category I and II non-friable materials to be removed by individuals trained in the removal of the Category I and II materials and supervised by a competent person as defined by 29 CFR 1926.1101 section "b".

The White Window Caulking and Gray Stucco contain asbestos at concentrations of 0.50 percent Chrysotile or less as reported by the Point Count Method and per EPA is not considered ACM; however, these materials contains asbestos fibers and if they are to be disturbed, then the OSHA 29 CFR 1926.1101 Safety Construction Asbestos Standard should be followed.

Contractors, employees, and tenants occupying in this building should be made aware of the ACMs and the possibility that concealed ACMs may be found during demolition/renovation activities. They should be advised not to disturb known or suspect ACMs without owner approval.

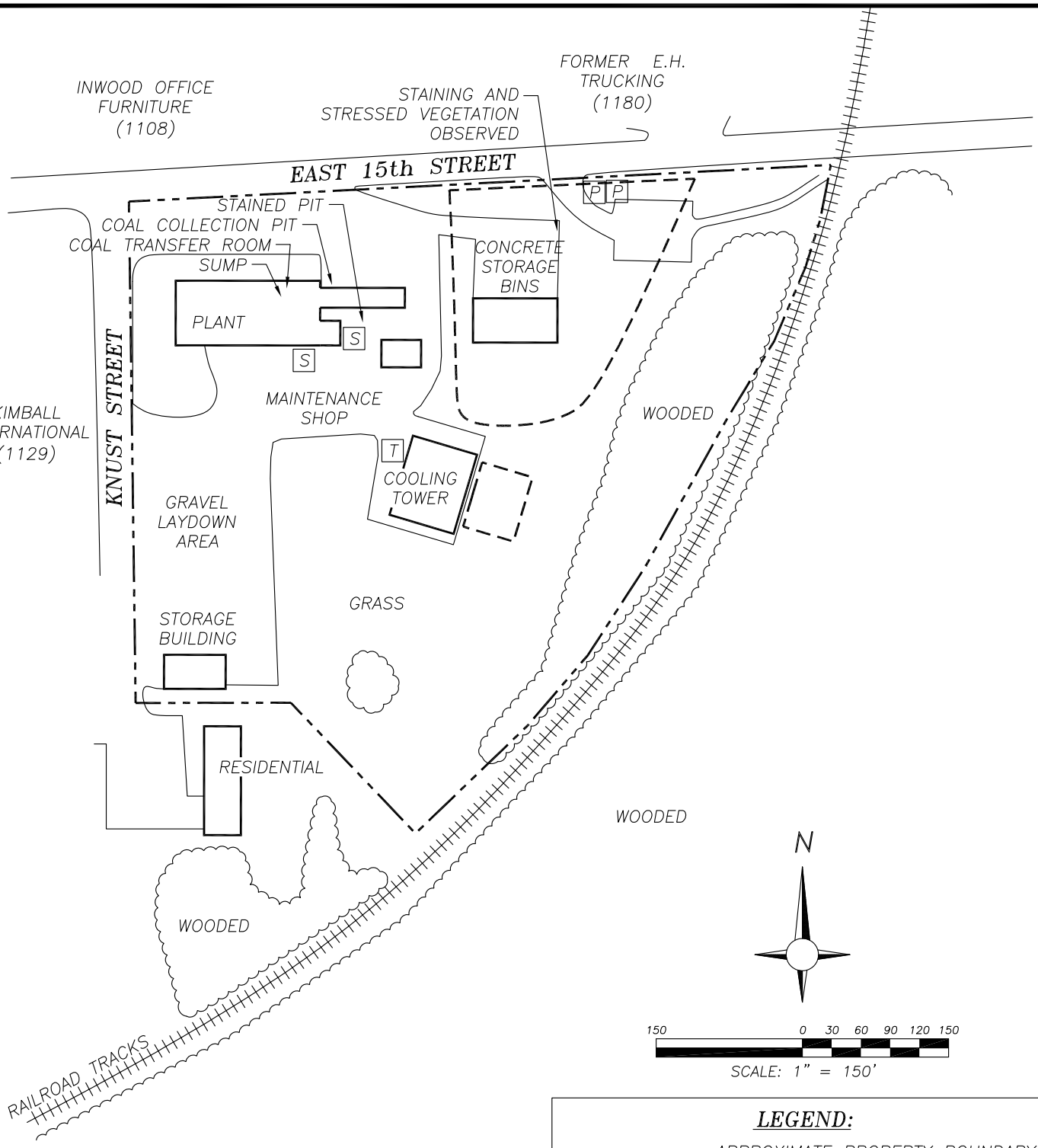
The EPA *has not prohibited* the manufacture and importation of miscellaneous materials, such as vinyl floorings, mastics, roofing materials, etc. As a result, any future replacement materials should be checked for the presence of asbestos prior to installation.

5.0 Limitations

This report is intended for the sole use of Indiana 15 Regional Planning Commission and the City of Jasper. The intent of the report is to aid the building owner, architect, construction manager, general contractors, and potential demolition and abatement contractors. As actual site conditions and quantities should be field verified, **this report is not intended to serve as a bidding document or as a project specification document**. The scope of services performed in execution of this evaluation may not be appropriate to satisfy the needs of other users, and use or re-use of this document or the findings, conclusions, or recommendations is at the risk of said user. Although every attempt has been made to identify suspect lead paint and suspect asbestos materials in the areas identified, the limits of the scope of work and inspection technique used is inherently limited in the sense that only full demolition procedures will reveal all building materials of a structure.

Additionally, the passage of time may result in a change in the environmental characteristics at this site. This report does not warrant against future operations or conditions that could affect the recommendations made. The results, findings, conclusions and recommendations expressed in this report are based only on conditions that were observed during Cardno ATC's inspections of the site from February 9 to March 12, 2015.

FIGURES



LEGEND:

- APPROXIMATE PROPERTY BOUNDARY
- APPROXIMATE LIMITS OF FORMER ASH LAGOONS AND COAL PILES
- [S] SHED
- [T] PAD MOUNTED TRANSFORMER
- [P] NON-PCB POLE-MOUNTED TRANSFORMER

SITE PLAN

JASPER POWER PLANT
1163 EAST 15th STREET
JASPER, INDIANA

Project Number: 170IN1503H		Drn. By: AK
Drawing File: SEE LOWER LEFT		Ckd. By: BK
Date: 4/15	Scale: AS SHOWN	App'd By:
Cardno ATC		Figure: 1

H:\2015\IN 15 REGIONAL PLANNING COMMISION\JASPER POWER PLANT\IH\170IN1503H-SITE.DWG, SITE

LEGEND:

69 — POSITIVE ACM SAMPLE LOCATION
Sample Identification

68 — SUSPECT ACM SAMPLE LOCATION
Sample Identification

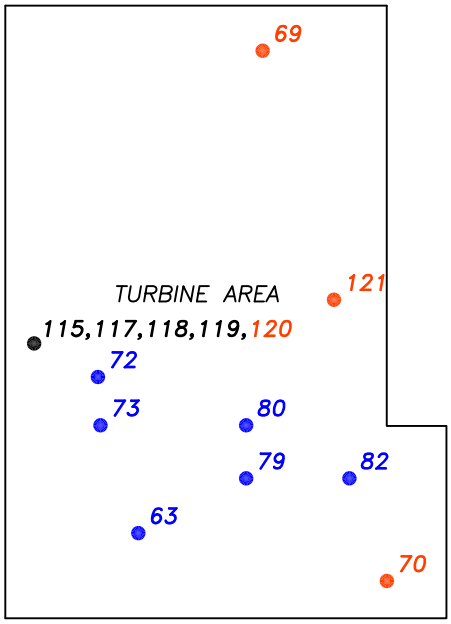
72 — LEAD BASED PAINT LOCATION (≥1.0mg/cm³)
Sample Identification

NOTE: ALL LOCATIONS ARE APPROXIMATE

N

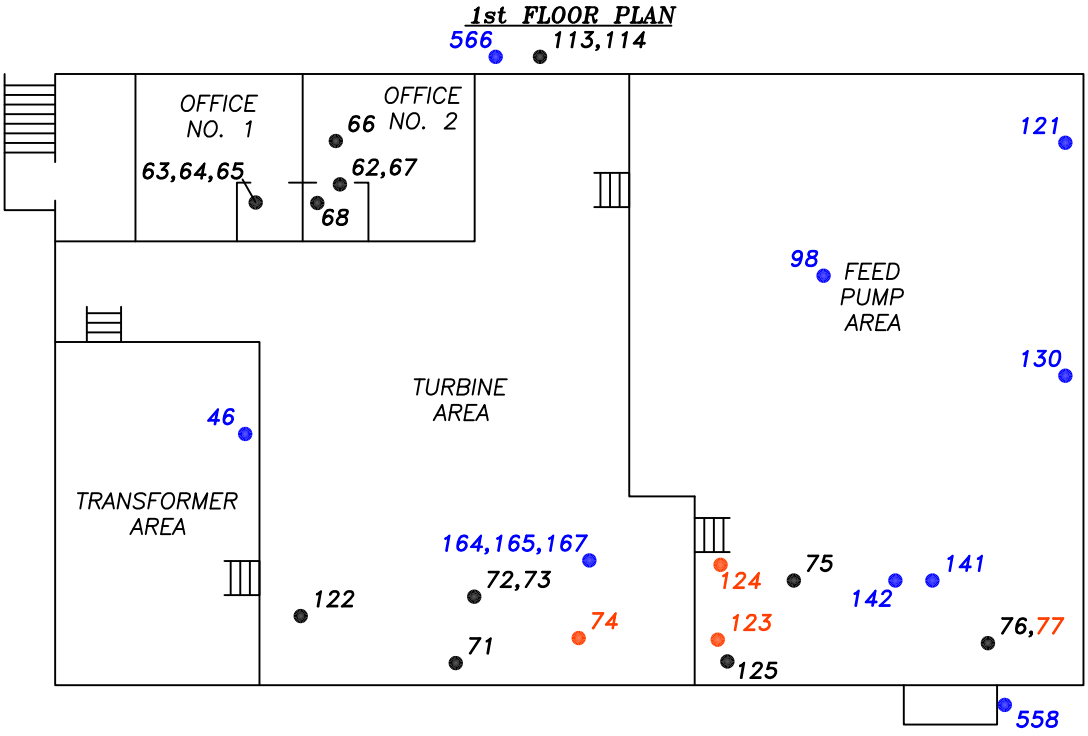
NOT TO SCALE

BASEMENT



COAL STORAGE

1st FLOOR PLAN



LEAD - BASED PAINT/ ASBESTOS SAMPLE LOCATIONS

JASPER POWER PLANT
1163 EAST 15th STREET
JASPER, INDIANA

Project Number: 170IN1503H		Drn. By: AK
Drawing File: SEE LOWER LEFT		Ckd. By: BK
Date: 4/15	Scale: AS SHOWN	App'd By:
Cardno ATC		Figure: 2

H:\2015\IN 15 REGIONAL PLANNING COMMISION\JASPER POWER PLANT\IH\170EM00003-ASBESTOS.DWG, FIG. 2

LEGEND:

88 — POSITIVE ACM SAMPLE LOCATION
Sample Identification

80 — SUSPECT ACM SAMPLE LOCATION
Sample Identification

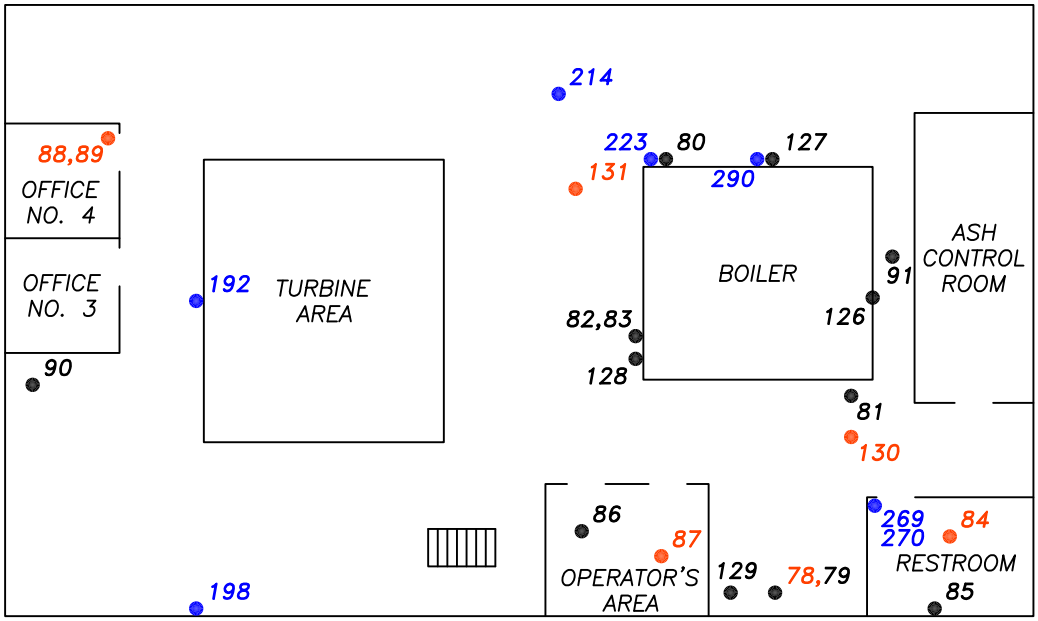
214 — LEAD BASED PAINT LOCATION (≥1.0mg/cm³)
Sample Identification

NOTE: ALL LOCATIONS ARE APPROXIMATE

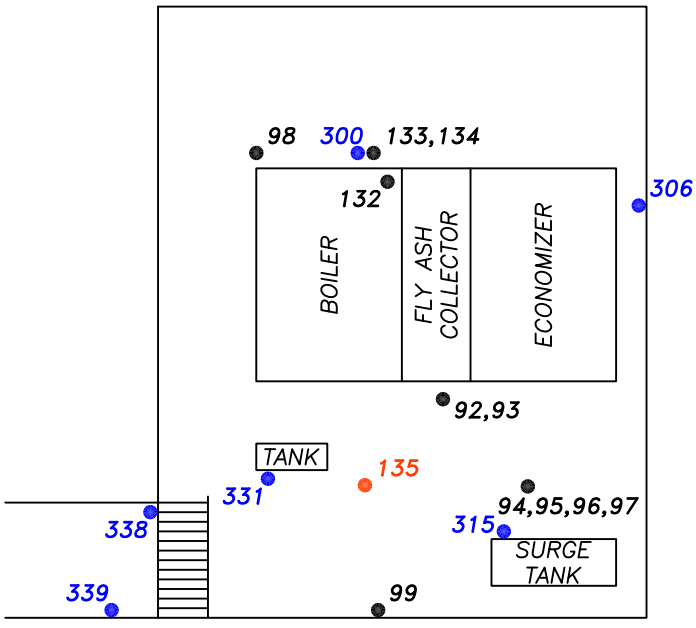
N

NOT TO SCALE

2nd FLOOR PLAN



3rd FLOOR PLAN



LEAD - BASED PAINT/ ASBESTOS SAMPLE LOCATIONS

JASPER POWER PLANT
1163 EAST 15th STREET
JASPER, INDIANA

Project Number: 170IN1503H		Drn. By: AK
Drawing File: SEE LOWER LEFT		Ckd. By: BK
Date: 4/15	Scale: AS SHOWN	App'd By:
Cardno ATC		Figure: 3

H:\2015\IN 15 REGIONAL PLANNING COMMISION\JASPER POWER PLANT\IH\170EM00003-ASBESTOS.DWG, FIG. 3

LEGEND:

101 — POSITIVE ACM SAMPLE LOCATION
Sample Identification

111 — SUSPECT ACM SAMPLE LOCATION
Sample Identification

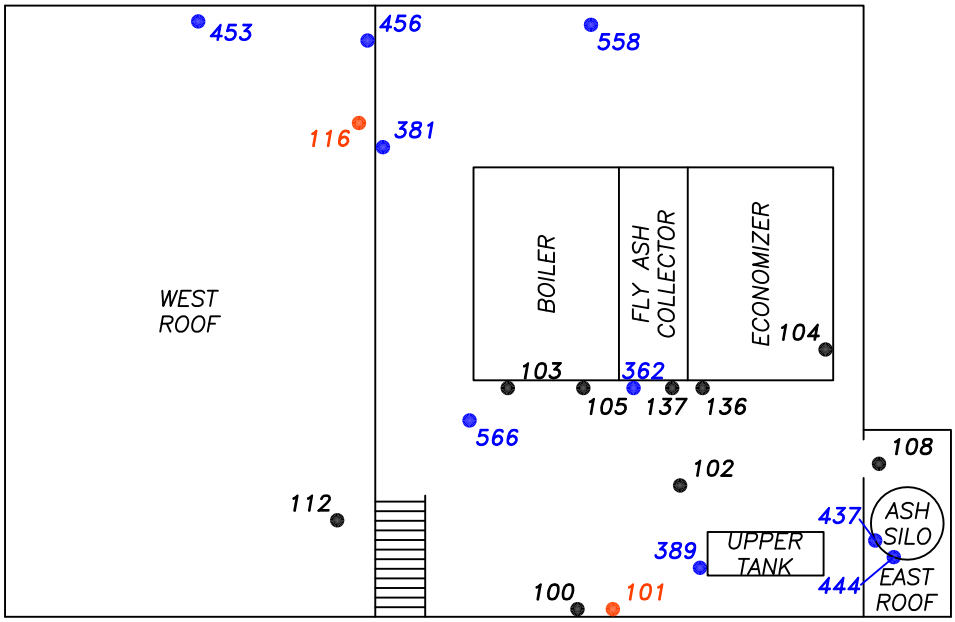
408 — LEAD BASED PAINT LOCATION (≥1.0mg/cm³)
Sample Identification

NOTE: ALL LOCATIONS ARE APPROXIMATE

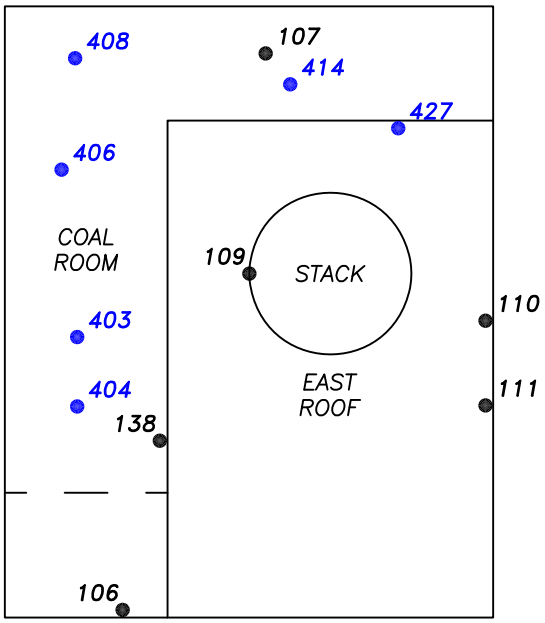
N

NOT TO SCALE

4th FLOOR PLAN



5th FLOOR PLAN



LEAD - BASED PAINT/ ASBESTOS SAMPLE LOCATIONS

JASPER POWER PLANT
1163 EAST 15th STREET
JASPER, INDIANA

Project Number: 170IN1503H		Drn. By: AK
Drawing File: SEE LOWER LEFT		Ckd. By: BK
Date: 4/15	Scale: AS SHOWN	App'd By:
Cardno ATC		Figure: 4

H:\2015\IN 15 REGIONAL PLANNING COMMISION\JASPER POWER PLANT\IH\170EM00003-ASBESTOS.DWG, FIG. 4

LEGEND:

01 — POSITIVE ACM SAMPLE LOCATION
Sample Identification

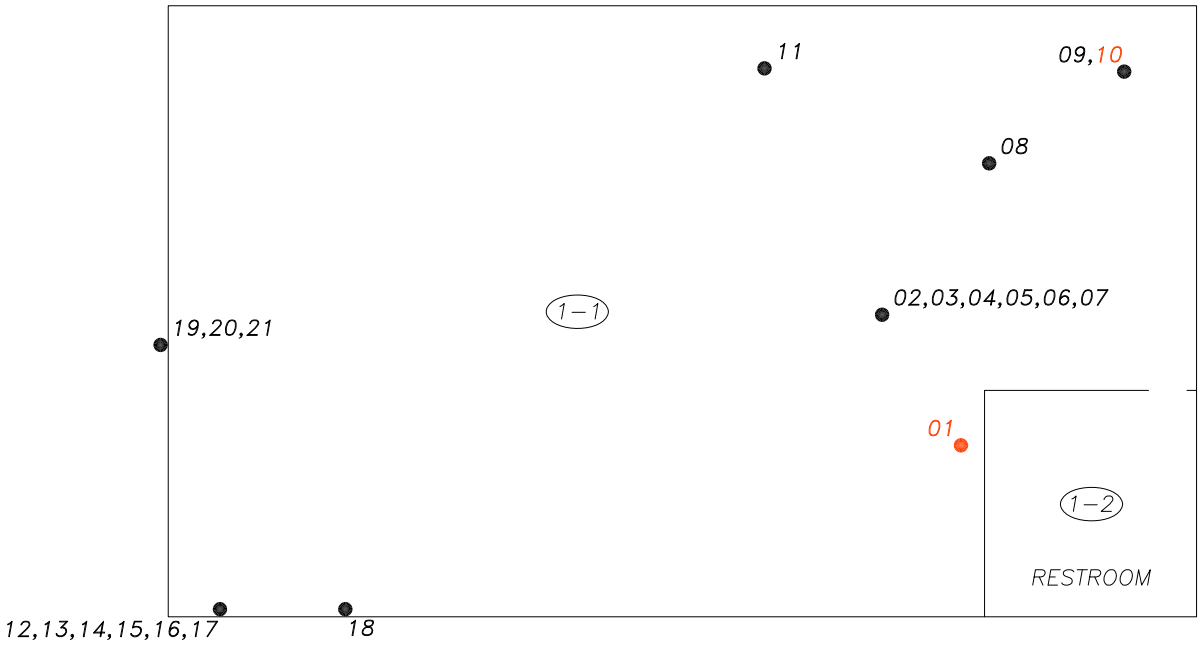
11 — SUSPECT ACM SAMPLE LOCATION
Sample Identification

NOTE: ALL LOCATIONS ARE APPROXIMATE

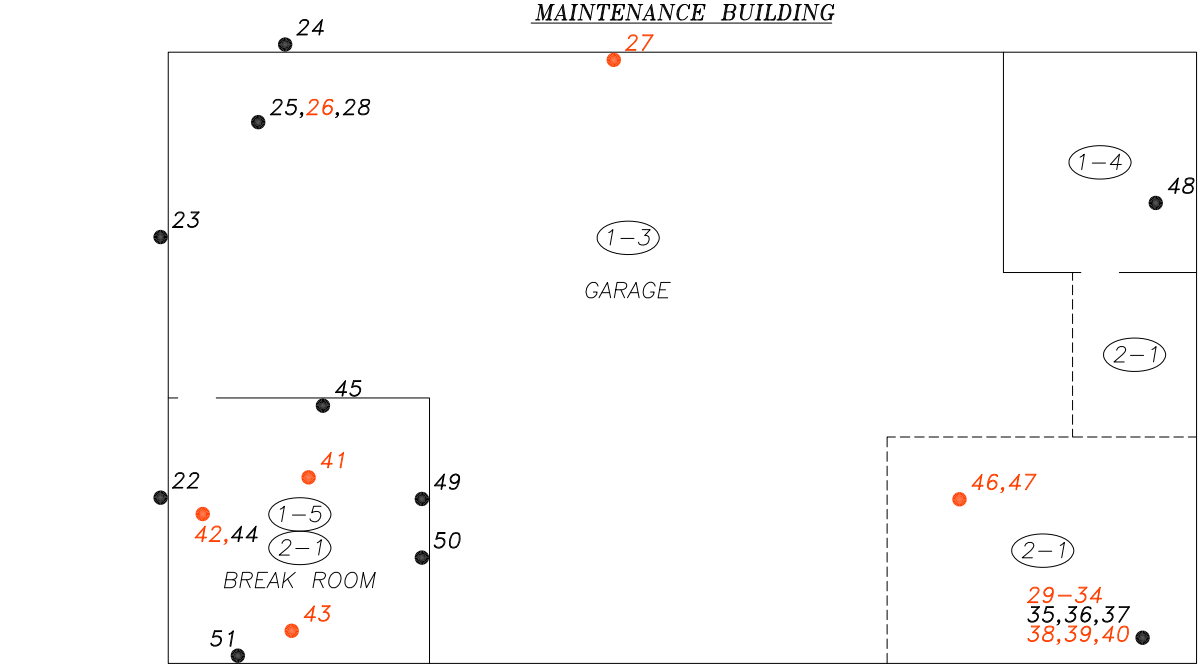
N

NOT TO SCALE

STORAGE BUILDING



MAINTENANCE BUILDING



ASBESTOS SAMPLE LOCATIONS

JASPER POWER PLANT
1163 EAST 15th STREET
JASPER, INDIANA

Project Number: 170IN1503H		Drn. By: AK
Drawing File: SEE LOWER LEFT		Ckd. By: BK
Date: 4/15	Scale: AS SHOWN	App'd By:
Cardno ATC		Figure: 5

H:\2015\IN 15 REGIONAL PLANNING COMMISION\JASPER POWER PLANT\IH\170EM00003-ASBESTOS.DWG, FIG. 5

LEGEND:

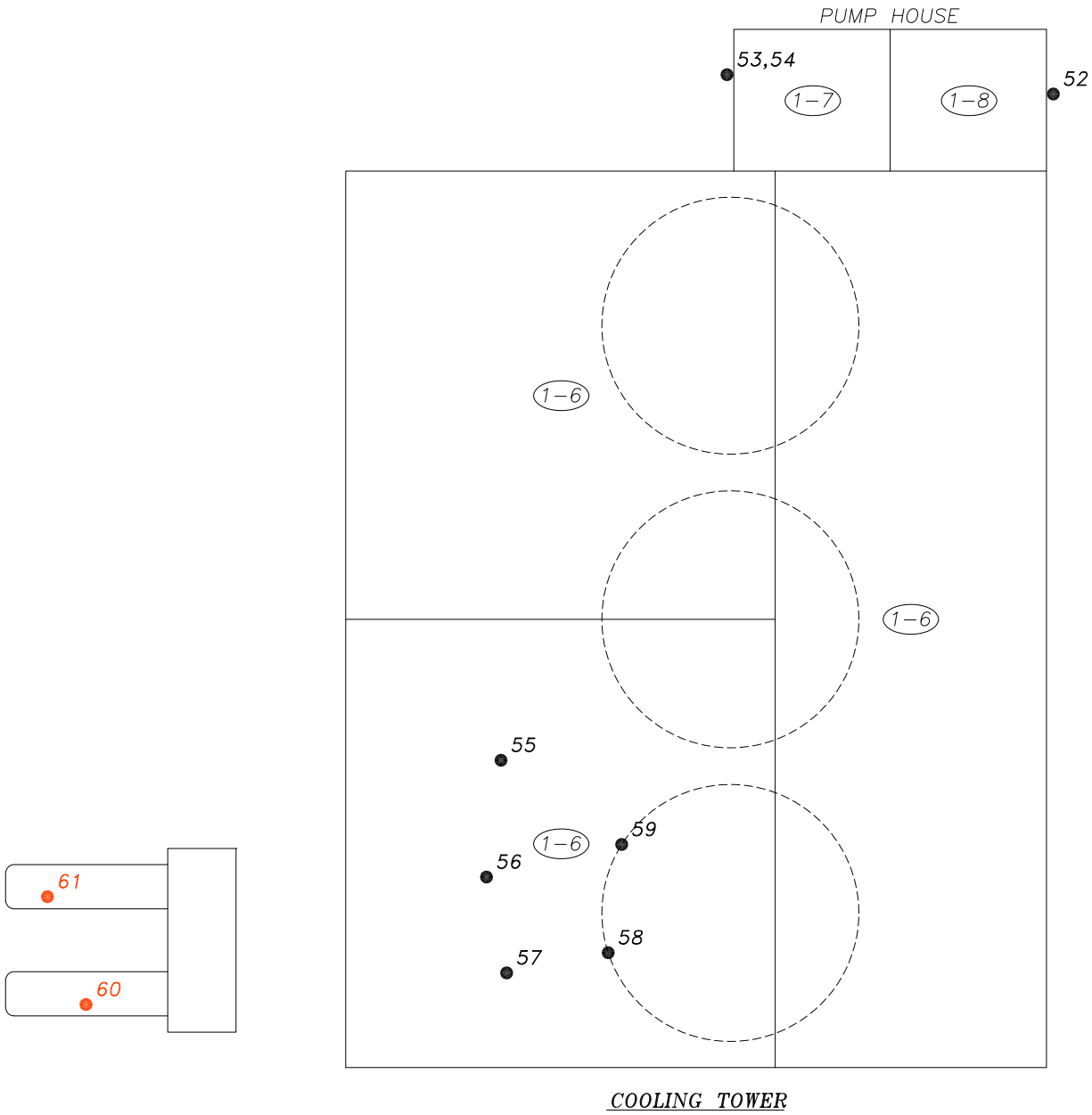
60 — POSITIVE ACM SAMPLE LOCATION
Sample Identification

52 — SUSPECT ACM SAMPLE LOCATION
Sample Identification

NOTE: ALL LOCATIONS ARE APPROXIMATE

N

NOT TO SCALE



COOLING TOWER

ASBESTOS SAMPLE LOCATIONS

JASPER POWER PLANT
1163 EAST 15th STREET
JASPER, INDIANA

Project Number: 170IN1503H		Drn. By: AK
Drawing File: SEE LOWER LEFT		Ckd. By: BK
Date: 4/15	Scale: AS SHOWN	App'd By:
Cardno ATC		Figure: 6

H:\2015\IN 15 REGIONAL PLANNING COMMISION\JASPER POWER PLANT\IH\170EM00003-ASBESTOS.DWG, FIG. 6

TABLES

Table 1

SUMMARY OF XRF SAMPLING ANALYSIS FOR LEAD BASED PAINT

Jasper Power Plant

1163 East 15th Street

Jasper, Dubois County, Indiana

Cardno ATC Project No. 170IN1503H

Sample No	Component	Substrate	Side	Color	Floor	Location	Results	Content
1								6.52
2								6.14
3			CAL				Negative	0.9
4			CAL				Positive	1
5			CAL				Positive	1
6			CAL				Positive	1
7	Wall	Wood	A	Brown	First	Reception Area	Negative	< LOD
8	Ceiling	Drywall	Upper	White	First	Reception Area	Negative	< LOD
9	Door	Wood	C	Brown	First	Reception Area	Negative	< LOD
10	Door Frame	Wood	C	Brown	First	Reception Area	Negative	< LOD
11	Wall	Concrete	B	White	First	Restroom	Null	< LOD
12	Wall	Concrete	B	White	First	Restroom	Negative	< LOD
13	Wall	Ceramic Tile	B	Pink	First	Restroom	Negative	< LOD
14	Ceiling	Drywall	Upper	White	First	Restroom	Negative	< LOD
15	Cabinet	Drywall	B	White	First	Restroom	Negative	< LOD
16	Pipe	Metal	B	White	First	Restroom	Negative	< LOD
17	Wall	Wood	A	Brown	First	Office	Negative	< LOD
18	Door	Wood	D	Brown	First	Office	Negative	< LOD
19	Baseboard	Wood	D	Brown	First	Office	Negative	< LOD
20	Door Frame	Wood	D	Brown	First	Office	Negative	< LOD
21	Door Frame	Plaster	A	Brown	First	Office	Negative	< LOD
22	Door	Plaster	A	Brown	First	Office	Negative	< LOD
23	Wall	Ceramic Tile	B	Yellow	First	Office Restroom	Negative	< LOD
24	Wall	Ceramic Tile	B	Brown	First	Office Restroom	Null	< LOD
25	Wall	Concrete	B	White	First	Office Restroom	Negative	< LOD
26	Door	Concrete	A	White	First	Office Restroom	Negative	< LOD
27	Door	Concrete	A	Brown	First	Office Restroom	Negative	< LOD
28	Door Frame	Concrete	A	White	First	Office Restroom	Negative	< LOD
29	Cabinet	Wood	D	White	First	Office Restroom	Negative	< LOD
30	Door	Wood	D	Brown	First	Southeast Supply Closet	Negative	< LOD
31	Door Frame	Wood	B	Brown	First	Southeast Supply Closet	Negative	< LOD
32	Shelf	Wood	B	Brown	First	Southeast Supply Closet	Negative	< LOD
33	Wall	Concrete	C	Green	First	Foyer	Negative	0.4
34	Ceiling	Metal	Upper	White	First	Foyer	Null	< LOD
35	Ceiling	Metal	Upper	White	First	Foyer	Negative	0.3
36	Door	Metal	C	Gray	First	Foyer	Negative	< LOD
37	Door Frame	Metal	C	Gray	First	Foyer	Negative	< LOD
38	Door Frame	Metal	A	Gray	Basement	Transformer Area	Negative	< LOD
39	Door	Metal	A	Gray	Basement	Transformer Area	Negative	< LOD
40	Column	Metal	A	Gray	Basement	Transformer Area	Negative	< LOD
41	Pipe	Metal	A	Gray	Basement	Transformer Area	Negative	< LOD
42	Stringer	Metal	A	Black	Basement	Transformer Area	Negative	0.6
43	Riser	Metal	A	Black	Basement	Transformer Area	Negative	0.6
44	Tread	Metal	A	Black	Basement	Transformer Area	Negative	< LOD
45	Wall	Metal	D	Gray	Basement	Transformer Area	Negative	< LOD
46	Handrail	Metal	B	Green	Basement	Transformer Area	Positive	1.8
47	Floor	Concrete	Lower	Yellow	Basement	Transformer Area	Negative	< LOD
48	Wall	Metal	C	Green	Basement	Transformer Area	Negative	< LOD
49	Door	Metal	C	Green	Basement	Transformer Area	Negative	< LOD
50	Door Frame	Metal	C	Gray	Basement	Transformer Area	Negative	< LOD
51	Column	Metal	C	Gray	Basement	Transformer Area	Negative	< LOD
52	6 Inch Pipe	Metal	C	Gray	Basement	Transformer Area	Negative	< LOD
53	Handrail	Metal	D	Green	Basement	Lower Level	Negative	0.7
54								6.43
55			CAL				Positive	1.1
56			CAL				Positive	1.2
57			CAL				Null	1
58			CAL				Null	1

Table 1

SUMMARY OF XRF SAMPLING ANALYSIS FOR LEAD BASED PAINT

Jasper Power Plant

1163 East 15th Street

Jasper, Dubois County, Indiana

Cardno ATC Project No. 170IN1503H

Sample No	Component	Substrate	Side	Color	Floor	Location	Results	Content
59			CAL				Positive	1.1
60			CAL				Negative	< LOD
61	2 Inch Pipe	Metal	D	Gray	Basement	Below Turbine Deck	Negative	< LOD
62	4 Inch Pipe	Metal	D	Blue	Basement	Below Turbine Deck	Negative	< LOD
63	Containment Berm	Concrete	Lower	Yellow	Basement	Below Turbine Deck	Positive	3.2
64	Motor Stand	Concrete	D	Gray	Basement	Below Turbine Deck	Null	< LOD
65	Motor Stand	Concrete	D	Gray	Basement	Below Turbine Deck	Null	< LOD
66	Motor Stand	Concrete	D	Gray	Basement	Below Turbine Deck	Negative	< LOD
67	Motor Mount	Metal	D	Gray	Basement	Below Turbine Deck	Negative	< LOD
68	Column	Metal	D	Gray	Basement	Below Turbine Deck	Negative	< LOD
69	Condenser Tank	Metal	A	Gray	Basement	Below Turbine Deck	Negative	< LOD
70	Hot Well	Metal	A	Gray	Basement	Below Turbine Deck	Negative	< LOD
71	2 Inch Pipe	Metal	A	Gray	Basement	Below Turbine Deck	Negative	0.5
72	2 Inch Pipe Valve	Metal	A	Light Gray	Basement	Below Turbine Deck	Positive	5.5
73	2 Inch Pipe Valve	Metal	A	Green	Basement	Below Turbine Deck	Positive	6.5
74	1.5 Inch Pipe	Metal	A	Gray	Basement	Below Turbine Deck	Negative	< LOD
75	10 Inch Drain Pipe	Metal	B	Gray	Basement	Below Turbine Deck	Negative	< LOD
76	Drain Pipe Fitting	Metal	B	Light Gray	Basement	Below Turbine Deck	Negative	< LOD
77	Valve Assembly	Metal	D	Red	Basement	Below Turbine Deck	Negative	0.4
78	Circulating Water Inlet	Metal	D	Green	Basement	Below Turbine Deck	Negative	< LOD
79	Valve Handle	Metal	C	Yellow	Basement	Below Turbine Deck	Positive	3.8
80	Circulating Water Outlet	Metal	C	Green	Basement	Below Turbine Deck	Positive	1.5
81	Valve Assembly	Metal	C	Green	Basement	Below Turbine Deck	Negative	< LOD
82	Valve Assembly	Metal	C	Yellow	Basement	Below Turbine Deck	Positive	6.9
83	Generator Booster Pump	Metal	C	Green	Basement	Below Turbine Deck	Negative	< LOD
84	Pump Motor Support	Concrete	C	Gray	Basement	Below Turbine Deck	Negative	< LOD
85	Handrail	Metal	C	Green	Basement	Below Turbine Deck	Negative	0.5
86	Stringer	Metal	C	Black	Basement	Below Turbine Deck	Negative	0.27
87	Tread	Metal	C	Black	Basement	Below Turbine Deck	Negative	< LOD
88	Circulating Water Valve Assembly	Metal	A	Green	Basement	Below Turbine Deck	Negative	< LOD
89	Circulating Water Inlet	Metal	A	Green	Basement	Below Turbine Deck	Negative	< LOD
90	Circulating Water Outlet	Metal	A	Green	Basement	Below Turbine Deck	Negative	< LOD
91	Condensate Pump	Metal	D	Gray	Basement	Below Turbine Deck	Negative	< LOD
92	Door	Metal	A	Green	First	Main Area	Negative	< LOD
93	Door Frame	Metal	A	Green	First	Main Area	Negative	< LOD
94	Column	Metal	A	Gray	First	Main Area	Negative	< LOD
95	Column	Metal	A	Light Gray	First	Main Area	Negative	< LOD
96	Column	Metal	A	Red	First	Main Area	Negative	< LOD
97	Air Compressor Tank	Metal		Gray	First	Main Area	Negative	< LOD
98	Air Compressor Tank	Metal	D	Orange	First	Main Area	Positive	1.6
99	Cinder Line	Metal	D	Silver	First	Main Area	Negative	< LOD
100	Containment Berm	Concrete	A	Yellow	First	Main Area	Negative	< LOD
101	Containment Berm Floor	Concrete	Lower	White	First	Main Area	Null	< LOD
102	Containment Berm Floor	Concrete	Lower	White	First	Main Area	Null	< LOD
103	Containment Berm Floor	Concrete	Lower	White	First	Main Area	Null	< LOD
104	Containment Berm Floor	Concrete	Lower	White	First	Main Area	Null	< LOD
105	Tread	Metal	A	Black	First	Main Area	Negative	< LOD
106	Riser	Metal	A	Black	First	Main Area	Negative	< LOD
107	Stringer	Metal	A	Black	First	Main Area	Negative	0.22
108	Handrail	Metal	A	Green	First	Main Area	Null	< LOD
109	Handrail	Metal	A	Green	First	Main Area	Null	< LOD
110	Handrail	Metal	A	Green	First	Main Area	Null	1
111	Handrail	Metal	A	Green	First	Main Area	Negative	0.7
112	Column	Metal	A	Gray	First	Main Area	Negative	0.3
113	Column	Metal	A	Gray	First	Main Area	Negative	< LOD
114	Door	Metal	D	Gray	First	Main Area	Negative	< LOD
115	Door Frame	Metal	D	Gray	First	Main Area	Negative	< LOD
116	Under Grate Bin	Metal	A	Gray	First	Main Area	Negative	< LOD
117	Air Compressor	Metal	A	Blue	First	Main Area	Negative	< LOD
118	Air Compressor Motor	Metal	A	Gray	First	Main Area	Negative	< LOD

Table 1

SUMMARY OF XRF SAMPLING ANALYSIS FOR LEAD BASED PAINT

Jasper Power Plant

1163 East 15th Street

Jasper, Dubois County, Indiana

Cardno ATC Project No. 170IN1503H

Sample No	Component	Substrate	Side	Color	Floor	Location	Results	Content
119	Air Compressor Pad	Concrete	A	Gray	First	Main Area	Negative	< LOD
120	Hogger Bin	Metal	A	Gray	First	Main Area	Negative	< LOD
121	Wall	Metal	B	Gray	First	Main Area	Positive	1.6
122	Forced Draft Fan	Metal	B	Gray	First	Main Area	Negative	< LOD
123	Forced Draft Fan Motor	Metal	B	Gray	First	Main Area	Negative	< LOD
124	Forced Draft Fan Motor	Concrete	B	Gray	First	Main Area	Negative	< LOD
125	Forced Draft Fan	Concrete	B	Silver	First	Main Area	Negative	< LOD
126	Forced Draft Fan	Concrete	B	Gray	First	Main Area	Negative	< LOD
127	Forced Draft Fan	Concrete	B	Gray	First	Main Area	Negative	< LOD
128	Door	Metal	B	Green	First	Main Area	Negative	< LOD
129	Door Frame	Metal	B	Green	First	Main Area	Negative	< LOD
130	1 Inch Air Line	Metal	B	Orange	First	Main Area	Positive	1.3
131	Blow Down Tank	Metal	B	Gray	First	Main Area	Negative	< LOD
132	Blow Down Tank	Metal	B	Gray	First	Main Area	Negative	< LOD
133	Floor	Metal	Lower	Light Gray	First	Main Area	Negative	< LOD
134	Central Vacuum	Metal	Lower	Light Gray	First	Main Area	Negative	0.5
135	Central Vacuum	Metal	Lower	Light Gray	First	Main Area	Negative	< LOD
136	Central Vacuum	Metal	Lower	Light Gray	First	Main Area	Negative	< LOD
137	Central Vacuum Tank	Metal	C	Light Gray	First	Main Area	Negative	< LOD
138	Central Vacuum Tank	Metal	C	Light Gray	First	Main Area	Negative	< LOD
139	Column	Metal	C	Gray	First	Main Area	Negative	< LOD
140	Containment Berm	Concrete	C	Yellow	First	Main Area	Negative	< LOD
141	Cation Tank	Metal	C	Gray	First	Main Area	Positive	2.6
142	Anion Tank	Metal	C	Gray	First	Main Area	Positive	3.7
143	Lower Tank	Metal	C	Gray	First	Main Area	Negative	< LOD
144	Lower Tank Regulator	Metal	C	Green	First	Main Area	Negative	0.4
145	Lower Tank Valve Assembly	Metal	C	Gray	First	Main Area	Negative	< LOD
146	Lower Tank Valve Assembly	Metal	C	Green	First	Main Area	Negative	0.5
147	Lower Tank Valve Assembly	Metal	C	Gray	First	Main Area	Negative	< LOD
148	Lower Tank	Concrete	C	Gray	First	Main Area	Negative	< LOD
149	Steam Feed Pump	Concrete	C	Gray	First	Main Area	Negative	< LOD
150	Steam Feed Pump	Metal	C	Gray	First	Main Area	Negative	< LOD
151	Steam Feed Pump	Metal	C	Gray	First	Main Area	Negative	< LOD
152	Steam Feed Pump	Metal	C	Silver	First	Main Area	Negative	< LOD
153	Steam Feed Pump	Metal	C	Gray	First	Main Area	Negative	< LOD
154	Steam Feed Pump	Metal	C	Gray	First	Main Area	Negative	< LOD
155	Steam Feed Pump	Metal	C	Black	First	Main Area	Negative	0.5
156	Electric Feed Pump	Metal	C	Gray	First	Main Area	Negative	0.3
157	Electric Feed Pump	Metal	C	Black	First	Main Area	Negative	0.7
158	Electric Feed Pump Motor	Metal	C	Gray	First	Main Area	Negative	< LOD
159	Electric Feed Pump	Metal	C	Gray	First	Main Area	Negative	< LOD
160	Electric Feed Pump	Metal	C	Gray	First	Main Area	Negative	< LOD
161	Electric Feed Pump	Concrete	C	Gray	First	Main Area	Negative	< LOD
162	Electric Feed Pump	Metal	C	Gray	First	Main Area	Negative	< LOD
163	Air Injector	Metal	Left	Gray	First	Upper Level	Negative	< LOD
164	Air Injector	Metal	Left	Yellow	First	Upper Level	Positive	5.6
165	Air Injector	Metal	Left	Yellow	First	Upper Level	Positive	4.5
166	Air Injector	Metal	Left	Gray	First	Upper Level	Negative	< LOD
167	Air Injector	Metal	Left	Yellow	First	Upper Level	Positive	4.2
168	Air Injector	Metal	Left	Gray	First	Upper Level	Negative	< LOD
169	Air Injector	Metal	Left	Gray	First	Upper Level	Negative	< LOD
170	Air Injector	Metal	Left	Gray	First	Upper Level	Negative	< LOD
171	Handrail	Metal	Left	Green	First	Upper Level	Negative	0.9
172	Toeboard	Metal	C	Black	First	Upper Level	Negative	< LOD
173	Condenser	Metal	C	Gray	First	Upper Level	Negative	< LOD
174	Oil Tank Turbine	Metal	C	Gray	First	Upper Level	Negative	< LOD
175	Oil Tank Turbine	Metal	C	Gray	First	Upper Level	Negative	< LOD
176	Oil Tank Turbine	Metal	C	Blue	First	Upper Level	Negative	< LOD
177	Oil Tank Turbine	Metal	C	Gray	First	Upper Level	Negative	< LOD
178	Oil Tank Turbine	Metal	C	Green	First	Upper Level	Null	< LOD
179	Oil Tank Turbine	Metal	C	Green	First	Upper Level	Negative	0.3

Table 1

SUMMARY OF XRF SAMPLING ANALYSIS FOR LEAD BASED PAINT

Jasper Power Plant

1163 East 15th Street

Jasper, Dubois County, Indiana

Cardno ATC Project No. 170IN1503H

Sample No	Component	Substrate	Side	Color	Floor	Location	Results	Content
180	Oil Tank Turbine	Metal	C	Green	First	Upper Level	Negative	0.5
181	Oil Tank Turbine	Metal	C	Black	First	Upper Level	Negative	< LOD
182	Condenser	Metal	D	Gray	First	Upper Level	Negative	< LOD
183	Gauge Panel	Metal	D	Gray	First	Upper Level	Negative	< LOD
184	Column	Metal	D	Gray	First	Upper Level	Negative	< LOD
185	Column	Metal	A	Gray	First	Turbine Deck	Negative	< LOD
186	Cross Brace	Metal	A	Gray	First	Turbine Deck	Negative	< LOD
187	Window Frame	Metal	A	Gray	First	Turbine Deck	Negative	< LOD
188	Wall	Metal	A	Gray	First	Turbine Deck	Negative	< LOD
189	Wall	Metal	D	Tan	First	Turbine Deck	Negative	< LOD
190	Floor	Metal	Lower	Black	First	Turbine Deck	Negative	0.14
191	Turbine Housing	Metal	Lower	Blue	First	Turbine Deck	Negative	< LOD
192	Electrical Conduit	Metal	Lower	Gray	Second	Turbine Deck	Positive	2.9
193	Turbine Oil Line	Metal	Lower	Gray	First	Turbine Deck	Negative	< LOD
194	Electric Junction Box	Metal	Lower	Gray	First	Turbine Deck	Negative	< LOD
195	4 Inch Pipe	Metal	Lower	Blue	First	Turbine Deck	Negative	< LOD
196	6 Inch Pipe	Metal		Gray	First	Turbine Deck	Null	< LOD
197	6 Inch Pipe	Metal		Gray	First	Turbine Deck	Negative	< LOD
198	Wall	Metal	D	Green	Second	Turbine Deck	Positive	2.3
199	Window Frame	Metal	D	Gray	First	Turbine Deck	Negative	0.4
200	Wall	Metal	D	Gray	First	Turbine Deck	Negative	< LOD
201	Gauge Panel	Metal	D	Gray	First	Turbine Deck	Negative	< LOD
202	Valve Handle	Metal	D	Green	First	Turbine Deck	Negative	< LOD
203	Low Pressure Heater	Metal	D	Gray	First	Turbine Deck	Negative	< LOD
204	Low Pressure Heater	Metal	D	Gray	Second	Turbine Deck	Negative	< LOD
205			CAL				Positive	1
206			CAL				Positive	1
207			CAL				Positive	1
208								6.23
209			CAL				Null	1
210			CAL				Positive	1
211			CAL				Positive	1.1
212			CAL				Null	1
213			CAL				Positive	1.1
214	4 Inch Pipe	Metal	A	Orange	Second	Boiler Area	Positive	1.5
215	Toeboard	Metal	A	Black	Second	Boiler Area	Negative	< LOD
216	Column	Metal	A	Light Gray	Second	Boiler Area	Negative	< LOD
217	Column	Metal	A	Gray	Second	Boiler Area	Negative	< LOD
218	Column	Metal	A	Red	Second	Boiler Area	Negative	< LOD
219	Wall	Metal	A	Gray	Second	Boiler Area	Negative	< LOD
220	Wall	Metal	A	Gray	Second	Boiler Area	Negative	< LOD
221	Grate Drive	Metal	A	Gray	Second	Boiler Area	Negative	< LOD
222	1 Inch Pipe	Metal	A	Gray	Second	Boiler Area	Negative	< LOD
223	2 Inch Pipe	Metal	A	Gray	Second	Boiler Area	Positive	1.8
224	2 Inch Pipe	Metal	A	Gray	Second	Boiler Area	Negative	< LOD
225	Boiler	Metal	A	Silver	Second	Boiler Area	Negative	< LOD
226	Boiler Coal Feeder	Metal	A	Gray	Second	Boiler Area	Negative	< LOD
227	Boiler	Metal	A	Gray	Second	Boiler Area	Negative	< LOD
228	Column	Metal	A	Gray	Second	Boiler Area	Negative	< LOD
229	Handrail	Metal	A	Green	Second	Boiler Area	Null	< LOD
230	Handrail	Metal	A	Green	Second	Boiler Area	Negative	0.9
231	Stringer	Metal	A	Black	Second	Boiler Area	Negative	0.25
232	Riser	Metal	A	Black	Second	Boiler Area	Negative	< LOD
233	Tread	Metal	A	Black	Second	Boiler Area	Negative	< LOD
234	Back Header Support	Metal	A	Light Gray	Second	Boiler Area	Negative	< LOD
235	Primary Ash Bin	Metal	C	Silver	Second	Boiler Area	Negative	< LOD
236	Primary Ash Bin	Metal	C	Silver	Second	Boiler Area	Negative	< LOD
237	Primary Ash Bin	Metal	C	Silver	Second	Boiler Area	Negative	< LOD
238	Primary Ash Bin	Metal	C	Gray	Second	Boiler Area	Null	< LOD
239	Primary Ash Bin	Metal	C	Gray	Second	Boiler Area	Negative	< LOD
240	Coal Elevator	Metal	A	Gray	Second	Boiler Area	Negative	< LOD

Table 1

SUMMARY OF XRF SAMPLING ANALYSIS FOR LEAD BASED PAINT

Jasper Power Plant

1163 East 15th Street

Jasper, Dubois County, Indiana

Cardno ATC Project No. 170IN1503H

Sample No	Component	Substrate	Side	Color	Floor	Location	Results	Content
241	Wall	Metal	B	Green	Second	Boiler Area	Negative	< LOD
242	Door	Metal	B	Gray	Second	Boiler Area	Negative	< LOD
243	Door Frame	Metal	B	Gray	Second	Boiler Area	Negative	< LOD
244	Air Intake Duct	Metal	B	Gray	Second	Boiler Area	Negative	0.26
245	Wall	Concrete	A	Green	Second	Boiler Area	Negative	< LOD
246	Door	Metal	A	Gray	Second	Boiler Area	Negative	< LOD
247	Door Frame	Metal	A	Gray	Second	Boiler Area	Negative	< LOD
248	Ladder	Metal	A	Gray	Second	Boiler Area	Negative	< LOD
249	1 Inch Pipe	Metal	A	Orange	Second	Boiler Area	Negative	0.9
250	I-Beam	Metal	B	Gray	Second	Boiler Area	Negative	< LOD
251	Valve Assembly	Metal	B	Green	Second	Boiler Area	Null	< LOD
252	Valve Assembly	Metal	B	Green	Second	Boiler Area	Negative	< LOD
253	Valve Assembly	Metal	B	Gray	Second	Boiler Area	Negative	< LOD
254	1 Inch Pipe	Metal	B	Gray	Second	Boiler Area	Negative	< LOD
255	2 Inch Pipe	Metal	B	Gray	Second	Boiler Area	Null	< LOD
256	2 Inch Pipe	Metal	B	Gray	Second	Boiler Area	Negative	< LOD
257	Heater Pump Motor	Metal	C	Gray	Second	Boiler Area	Negative	< LOD
258	Heater Pump Motor	Metal	C	Gray	Second	Boiler Area	Negative	< LOD
259	Heater Pump Motor	Metal	C	Green	Second	Boiler Area	Negative	0.5
260	Heater Pump Motor	Metal	C	Gray	Second	Boiler Area	Negative	< LOD
261	Heater Pump Motor	Concrete	C	Gray	Second	Boiler Area	Negative	< LOD
262	Heater Pump Motor	Metal	C	Gray	Second	Boiler Area	Negative	< LOD
263	Heater Pump Motor	Metal	C	Gray	Second	Boiler Area	Negative	< LOD
264	Heater Pump Motor	Metal	C	Gray	Second	Boiler Area	Null	< LOD
265	Heater Pump Motor	Metal	C	Gray	Second	Boiler Area	Negative	< LOD
266	Window	Metal	C	Gray	Second	Boiler Area	Negative	< LOD
267	Wall	Concrete	A	Green	Second	Bathroom	Negative	< LOD
268	Door	Concrete	A	Gray	Second	Bathroom	Negative	< LOD
269	Door Frame	Concrete	A	Gray	Second	Bathroom	Positive	1.1
270	Door Frame	Metal	A	Gray	Second	Bathroom	Positive	1.5
271	36 Inch I-Beam	Metal	A	Light Gray	Second	Bathroom	Negative	< LOD
272	Wall	Metal	B	Green	Second	Bathroom	Negative	< LOD
273	Wall	Metal	B	Gray	Second	Bathroom	Negative	< LOD
274	Column	Metal	B	Gray	Second	Bathroom	Negative	< LOD
275	Cinder Line	Metal	B	Silver	Second	Bathroom	Negative	< LOD
276	8 Inch Pipe	Metal	B	Gray	Second	Bathroom	Negative	< LOD
277	Toeboard	Metal	B	Black	Second	Bathroom	Negative	< LOD
278	Floor	Concrete	Lower	Black	Second	Bathroom	Negative	< LOD
279	Blow Down Line	Metal	C	Silver	Second	Bathroom	Negative	< LOD
280	Blow Down Line	Metal	C	Silver	Second	Bathroom	Negative	< LOD
281	Gauge Panel	Metal	B	Gray	Second	Control Room	Negative	< LOD
282	Boiler Control Panel	Metal	B	Gray	Second	Control Room	Negative	< LOD
283	Door	Metal	A	Black	Second	Control Room	Negative	< LOD
284	Door Frame	Metal	A	Black	Second	Control Room	Negative	< LOD
285	Wall	Wood	C	Brown	Second	Control Room	Negative	< LOD
286	6 Inch Pipe	Metal	C	Gray	Second	Control Room	Negative	< LOD
287	Column	Metal	C	Gray	Second	Control Room	Negative	< LOD
288	4 Inch Pipe	Metal	A	Green	Second	Gas Burner	Negative	< LOD
289	Ball Valve	Metal	A	Green	Second	Gas Burner	Negative	< LOD
290	1 Inch Pipe	Metal	A	Orange	Second	Gas Burner	Positive	1
291	Air Intake	Metal	A	Green	Second	Gas Burner	Negative	< LOD
292	2 Inch Pipe	Metal	A	Green	Second	Gas Burner	Negative	< LOD
293	Toeboard	Metal	A	Black	Second	Gas Burner	Negative	< LOD
294	Handrail	Metal	A	Green	Second	Gas Burner	Negative	< LOD
295	Column	Metal	A	Gray	Second	Gas Burner	Negative	< LOD
296	Column	Metal	A	Gray	Third	Boiler	Negative	< LOD
297	Cinder Line	Metal	A	Silver	Third	Boiler	Null	< LOD
298	Cinder Line	Metal	A	Silver	Third	Boiler	Negative	< LOD
299	Column	Metal	A	Light Gray	Third	Boiler	Negative	< LOD
300	4 Inch Pipe	Metal	A	Orange	Third	Boiler	Positive	2.2
301	Handrail	Metal	A	Green	Third	Boiler	Negative	0.9

Table 1

SUMMARY OF XRF SAMPLING ANALYSIS FOR LEAD BASED PAINT

Jasper Power Plant

1163 East 15th Street

Jasper, Dubois County, Indiana

Cardno ATC Project No. 170IN1503H

Sample No	Component	Substrate	Side	Color	Floor	Location	Results	Content
302	Toeboard	Metal	A	Black	Third	Boiler	Negative	< LOD
303	Economizer	Metal	A	Gray	Third	Economizer	Negative	< LOD
304	Column	Metal	A	Gray	Third	Main Area	Negative	0.5
305	Wall	Metal	B	Green	Third	Main Area	Null	0.9
306	Wall	Metal	B	Green	Third	Main Area	Positive	1.8
307	Valve Assembly	Metal	C	Silver	Third	Economizer	Negative	< LOD
308	Valve Assembly Handle	Metal	C	Black	Third	Economizer	Negative	0.7
309	Forced Draft Air	Metal	C	Gray	Third	Main Area	Negative	0.26
310	Valve Assembly	Metal	C	Gray	Third	Surge Tank	Negative	< LOD
311	Valve Assembly	Metal	C	Green	Third	Surge Tank	Negative	< LOD
312	Pipe 8in	Metal	C	Gray	Third	Surge Tank	Negative	< LOD
313	Column	Metal	C	Gray	Third	Surge Tank	Negative	< LOD
314	2 Inch Pipe	Metal	C	Gray	Third	Surge Tank	Negative	< LOD
315	2 Inch Pipe Ball Valve	Metal	C	Gray	Third	Surge Tank	Positive	4.9
316	Closet	Metal	C	Gray	Third	Surge Tank	Negative	< LOD
317	Column	Metal	C	Gray	Third	Surge Tank	Negative	< LOD
318	2 Inch Pipe	Metal	C	Gray	Third	High Pressure Heater Drain	Negative	< LOD
319	1 Inch Pipe	Metal	C	Silver	Third	High Pressure Heater Drain	Negative	< LOD
320	1 Inch Pipe Ball Valve	Metal	C	Silver	Third	High Pressure Heater Drain	Negative	< LOD
321	6 Inch Pipe	Metal	C	Gray	Third	High Pressure Heater Drain	Negative	< LOD
322	8 Inch Pipe	Metal	C	Gray	Third	D. A. Tank	Negative	< LOD
323	8 Inch Pipe Ball Valve	Metal	C	Gray	Third	D. A. Tank	Negative	< LOD
324	8 Inch Pipe Ball Valve	Metal	C	Green	Third	D. A. Tank	Negative	< LOD
325	Condensate Trap	Metal	C	Gray	Third	D. A. Tank	Negative	< LOD
326	2 inch Pipe	Metal	C	Gray	Third	D. A. Tank	Negative	< LOD
327	Valve Assembly	Metal	C	Gray	Third	D. A. Tank	Negative	< LOD
328	2 Inch Pipe	Metal	C	Light Gray	Third	D. A. Tank	Negative	< LOD
329	2 Inch Pipe Ball Valve	Metal	C	Light Gray	Third	D. A. Tank	Negative	< LOD
330	Sight Glass	Metal	C	Light Gray	Third	D. A. Tank	Negative	< LOD
331	Support Column	Metal	C	Light Gray	Third	D. A. Tank	Positive	1.1
332	Ball Valve	Metal	C	Light Gray	Third	D. A. Tank	Negative	< LOD
333	Coal Scale	Metal	D	Light Gray	Third	D. A. Tank	Negative	< LOD
334	Coal Scale Duct	Metal	D	Light Gray	Third	D. A. Tank	Negative	< LOD
335	Coal Scale Motor	Metal	D	Light Gray	Third	D. A. Tank	Negative	< LOD
336	Coal Scale	Metal	D	Green	Third	D. A. Tank	Negative	< LOD
337	30 Inch I-Beam	Metal	D	Gray	Third	Gantry Area	Negative	< LOD
338	Gantry	Metal	C	Yellow	Third	Gantry Area	Positive	2.2
339	Gantry Catwalk	Metal	C	Yellow	Third	Gantry Area	Positive	1.2
340	Roof Truss	Metal	C	Gray	Third	Gantry Area	Negative	< LOD
341	Roof Cross Brace	Metal	C	Gray	Third	Gantry Area	Negative	< LOD
342	Column	Metal	C	Gray	Third	Gantry Area	Negative	< LOD
343								6.26
344			CAL				Null	1.1
345			CAL				Null	1.1
346			CAL				Null	1
347			CAL				Positive	1
348			CAL				Positive	1.1
349	Wall	Metal	C	Gray	Fourth	Coal Bin	Negative	< LOD
350	16 Inch I-Beam	Metal	C	Gray	Fourth	Coal Bin	Negative	< LOD
351	Valve Assembly	Metal	C	Silver	Fourth	600 psi Steam Line	Negative	< LOD
352	Valve Assembly	Metal	C	Black	Fourth	600 psi Steam Line	Negative	0.3
353	6 Inch Water Line	Metal	C	Silver	Fourth	Boiler	Negative	< LOD
354	1.5 Inch Pipe	Metal	C	Silver	Fourth	Steam Drum	Negative	< LOD
355	1.5 Inch Pipe Ball Valve	Metal	C	Silver	Fourth	Steam Drum	Negative	< LOD
356	1.5 Inch Pipe Ball Valve	Metal	C	Black	Fourth	Steam Drum	Negative	0.3
357	2 Inch Pipe	Metal	C	Silver	Fourth	Steam Drum	Negative	< LOD
358	Safety Valve	Metal	C	Silver	Fourth	Steam Drum	Negative	< LOD

Table 1

SUMMARY OF XRF SAMPLING ANALYSIS FOR LEAD BASED PAINT

Jasper Power Plant

1163 East 15th Street

Jasper, Dubois County, Indiana

Cardno ATC Project No. 170IN1503H

Sample No	Component	Substrate	Side	Color	Floor	Location	Results	Content
359	1 Inch Pipe Safety Valve	Metal	C	Silver	Fourth	Steam Drum	Negative	< LOD
360	Forced Air Duct	Metal	C	Light Gray	Fourth	Boiler	Negative	0.3
361	Handrail	Metal	C	Green	Fourth	Boiler	Null	0.8
362	Handrail	Metal	C	Green	Fourth	Boiler	Positive	1.6
363	Toeboard	Metal	C	Black	Fourth	Boiler	Negative	< LOD
364	Column	Metal	C	Gray	Fourth	Economizer	Negative	< LOD
365	Wall	Metal	B	Green	Fourth	Economizer	Negative	0.7
366	6 Inch Pipe	Metal	B	Gray	Fourth	Economizer	Negative	< LOD
367	Coal Elevator	Metal	B	Light Gray	Fourth	Economizer	Negative	< LOD
368	Window	Metal	A	Gray	Fourth	Economizer	Negative	< LOD
369	Cinder Line	Metal	A	Silver	Fourth	Economizer	Negative	< LOD
370	Super Heater	Metal	A	Gray	Fourth	Economizer	Null	0.5
371	Super Heater	Metal	A	Gray	Fourth	Economizer	Negative	< LOD
372	Steam Drum Support	Metal	A	Gray	Fourth	Economizer	Negative	< LOD
373	Steam Drum Support Turnbuckle	Metal	A	Gray	Fourth	Economizer	Negative	< LOD
374	Header Inspection Hole	Metal	A	Silver	Fourth	Economizer	Negative	< LOD
375	1 Inch Pipe	Metal	A	Green	Fourth	Economizer	Negative	< LOD
376	Flange	Metal	A	Silver	Fourth	Economizer	Negative	< LOD
377	Column	Metal	A	Light Gray	Fourth	Main Area	Negative	< LOD
378	Column	Metal	A	Gray	Fourth	Main Area	Negative	< LOD
379	Door	Metal	D	Gray	Fourth	Roof Access	Negative	< LOD
380	Door Frame	Metal	D	Gray	Fourth	Roof Access	Negative	< LOD
381	Handrail	Metal	D	Green	Fourth	Roof Access	Positive	1.6
382	Southeast Rail	Metal	D	Black	Fourth	Roof Access	Negative	< LOD
383	Tread	Metal	D	Black	Fourth	Roof Access	Negative	< LOD
384	Stringer	Metal	D	Black	Fourth	Roof Access	Negative	0.2
385	Toeboard	Metal	D	Black	Fourth	Roof Access	Negative	< LOD
386	Building Steel	Metal	D	Gray	Fourth	Roof Access	Negative	< LOD
387	Upper Tank	Metal	C	Light Gray	Fourth	Southeast Corner	Negative	< LOD
388	2 Inch Pipe	Metal	C	Light Gray	Fourth	Southeast Corner	Negative	< LOD
389	2 Inch Pipe Ball Valve	Metal	C	Light Gray	Fourth	Southeast Corner	Positive	6.8
390	Sight Glass	Metal	C	Light Gray	Fourth	Southeast Corner	Negative	< LOD
391	6 Inch Pipe	Metal	C	Light Gray	Fourth	Southeast Corner	Negative	< LOD
392	Column	Metal	C	Gray	Fourth	Southeast Corner	Negative	< LOD
393	Tank Support	Metal	C	Light Gray	Fourth	Southeast Corner	Negative	< LOD
394	Tank Support	Metal	C	Light Gray	Fourth	Southeast Corner	Negative	< LOD
395	2 Inch Pipe	Metal	C	Silver	Fourth	High Pressure Heater	Negative	< LOD
396	2 Inch Pipe Ball Valve	Metal	C	Silver	Fourth	High Pressure Heater	Negative	< LOD
397	2 Inch Pipe Ball Valve	Metal	C	Silver	Fourth	High Pressure Heater	Negative	< LOD
398	6 Inch Pipe	Metal	C	Light Gray	Fourth	High Pressure Heater	Negative	< LOD
399	Tank Support	Metal	C	Light Gray	Fourth	High Pressure Heater	Negative	< LOD
400	Wall	Metal	C	Green	Fourth	Coal Room	Negative	0.8
401	Column	Metal	C	Gray	Fourth	Coal Room	Negative	< LOD
402	Column	Metal	D	Green	Fourth	Coal Room	Negative	< LOD
403	Conveyor Support	Metal	D	Light Gray	Fifth	Coal Room	Positive	1.2
404	Conveyor Base	Metal	D	Light Gray	Fifth	Coal Room	Positive	1.1
405	Conveyor Rails	Metal	D	Light Gray	Fifth	Coal Room	Negative	< LOD
406	Tripper Cart	Metal	D	Light Gray	Fifth	Coal Room	Positive	3.2
407	Upper Belt	Metal	D	Light Gray	Fifth	Coal Room	Negative	< LOD
408	Upper Belt	Metal	D	Light Gray	Fifth	Coal Room	Positive	1.6
409	Handrail	Metal	D	Green	Fifth	Coal Room	Null	0.9
410	Handrail	Metal	D	Green	Fifth	Coal Room	Null	1.2
411	Handrail	Metal	D	Green	Fifth	Coal Room	Null	1.3
412	Handrail	Metal	D	Green	Fifth	Coal Room	Negative	0.4
413	Machine Guard	Metal	D	Light Gray	Fifth	Coal Room	Negative	0.8
414	Upper Conveyor	Metal	D	Light Gray	Fifth	Coal Room	Positive	2.5
415	Coal Elevator	Metal	B	Light Gray	Fifth	Coal Room	Negative	< LOD
416	Window	Metal	C	Green	Fifth	Coal Room	Negative	< LOD
417	Coal Chute	Metal	C	Silver	Fifth	Coal Room	Negative	< LOD
418	Flashing	Metal	C	Green	Fifth	East Roof	Negative	0.7

Table 1

SUMMARY OF XRF SAMPLING ANALYSIS FOR LEAD BASED PAINT

Jasper Power Plant

1163 East 15th Street

Jasper, Dubois County, Indiana

Cardno ATC Project No. 170IN1503H

Sample No	Component	Substrate	Side	Color	Floor	Location	Results	Content
419	8 Inch Vent	Metal	C	Daiquiri Ice	Fifth	East Roof	Negative	< LOD
420	12 Inch Vent	Metal	C	Daiquiri Ice	Fifth	East Roof	Negative	< LOD
421	12 Inch Vent Exhaust Head	Metal	C	Daiquiri Ice	Fifth	East Roof	Negative	< LOD
422	Exhaust Fan	Metal	C	Daiquiri Ice	Fifth	East Roof	Negative	< LOD
423	Wall	Metal	A	Daiquiri Ice	Fifth	East Roof	Null	0.8
424	Wall	Metal	A	Daiquiri Ice	Fifth	East Roof	Negative	0.6
425	Stack	Metal	A	Daiquiri Ice	Fifth	East Roof	Negative	< LOD
426	Window	Metal	A	Green	Fifth	East Roof	Null	1.2
427	Window	Metal	A	Green	Fifth	East Roof	Positive	1.7
428	Window Sill	Metal	A	Green	Fifth	East Roof	Negative	< LOD
429	Door	Metal	A	Green	Fifth	East Roof	Negative	< LOD
430	Handrail	Metal	A	Green	Fifth	East Roof	Null	0.9
431	Handrail	Metal	A	Green	Fifth	East Roof	Negative	0.8
432	Tread	Metal	A	Black	Fifth	East Roof	Negative	< LOD
433	Southeast Rail	Metal	A	Black	Fifth	East Roof	Negative	< LOD
434	Stringer	Metal	A	Black	Fifth	East Roof	Negative	0.22
435	Ladder	Metal	A	Daiquiri Ice	Fifth	East Roof	Negative	< LOD
436	Cinder Line	Metal	C	Silver	Fifth	East Roof	Negative	< LOD
437	3 Inch Pipe	Metal	B	Orange	Fourth	Ash Silo Roof	Positive	1.2
438	6 Inch Pipe	Metal	B	Gray	Fourth	Ash Silo Roof	Negative	< LOD
439	Column	Metal	B	Gray	Fourth	Ash Silo Roof	Negative	< LOD
440	Bin Support	Metal	B	Gray	Fourth	Ash Silo Roof	Negative	< LOD
441	Silo Cover	Metal	B	Gray	Fourth	Ash Silo Roof	Negative	< LOD
442	Handrail	Metal	B	Green	Fourth	Ash Silo Roof	Null	1.4
443	Handrail	Metal	B	Green	Fourth	Ash Silo Roof	Null	1.3
444	Handrail	Metal	B	Green	Fourth	Ash Silo Roof	Positive	1.4
445	Door	Metal	B	Green	Fourth	Ash Silo Roof	Negative	< LOD
446	Vent	Metal	B	Gray	Fourth	Ash Silo Roof	Negative	< LOD
447	Electric Conduit	Metal	B	Gray	Fourth	Ash Silo Roof	Negative	< LOD
448	Toeboard	Metal	B	Gray	Fourth	Ash Silo Roof	Null	< LOD
449	Toeboard	Metal	B	Gray	Fourth	Ash Silo Roof	Negative	< LOD
450	Wall	Metal	D	Daiquiri Ice	Fourth	West Roof	Negative	< LOD
451	Exhaust Vent	Metal	D	Daiquiri Ice	Fourth	West Roof	Negative	< LOD
452	Flashing	Metal	A	Green	Fourth	West Roof	Negative	< LOD
453	Half Wall	Metal	A	Black	Fourth	West Roof	Positive	1.2
454	Top Cap	Metal	A	Green	Fourth	West Roof	Null	< LOD
455	Top Cap	Metal	A	Green	Fourth	West Roof	Negative	< LOD
456	Handrail	Metal	B	Green	Fourth	West Roof	Positive	1.2
457	Tread	Metal	B	Gray	Fourth	West Roof	Negative	< LOD
458	Stringer	Metal	B	Gray	Fourth	West Roof	Negative	0.4
459	Door	Metal	B	Green	Fourth	West Roof	Negative	< LOD
460	Trim	Metal	B	Green	Fourth	West Roof	Null	< LOD
461	Trim	Metal	B	Green	Fourth	West Roof	Negative	< LOD
462			CAL				Positive	1.1
463			CAL				Positive	1.1
464			CAL				Positive	1
465								7.03
466			CAL				Positive	1.1
467			CAL				Positive	1
468			CAL				Positive	1.1
469	Door	Wood	A	Gray	First	Storage Building	Negative	< LOD
470	Door Frame	Metal	A	Gray	First	Storage Building	Negative	< LOD
471	Wall Panel	Wood	A	Brown	First	Storage Building	Negative	< LOD
472	Door	Metal	C	Green	First	Storage Building	Negative	< LOD
473	Trim	Wood	C	Gray	First	Storage Building	Negative	< LOD
474	Door	Wood	C	Brown	First	Storage Building	Negative	< LOD
475	Wall	Wood	B	Brown	First	Storage Building	Negative	< LOD
476	Ceiling	Wood	Upper	Brown	First	Storage Building	Negative	< LOD
477	Wall	Metal	A	Green	First	Storage Building	Negative	< LOD
478	Door	Wood	A	Green	First	Storage Building	Negative	< LOD
479	Door Frame	Metal	A	Green	First	Storage Building	Negative	< LOD

Table 1

SUMMARY OF XRF SAMPLING ANALYSIS FOR LEAD BASED PAINT

Jasper Power Plant

1163 East 15th Street

Jasper, Dubois County, Indiana

Cardno ATC Project No. 170IN1503H

Sample No	Component	Substrate	Side	Color	Floor	Location	Results	Content
480	Door Frame	Wood	A	Green	First	Storage Building	Negative	< LOD
481	Valve Assembly	Metal	A	Gray	First	Cooling Tower	Negative	< LOD
482	Valve Assembly Handle	Metal	A	Green	First	Cooling Tower	Negative	0.5
483	30 Inch Pipe	Metal	A	Green	First	Cooling Tower	Negative	< LOD
484	30 Inch Pipe Flange	Metal	A	Green	First	Cooling Tower	Negative	< LOD
485	30 Inch Pipe Pump	Metal	A	Green	First	Cooling Tower	Negative	< LOD
486	36 Inch Pipe	Metal	A	Gray	First	Cooling Tower	Negative	0.8
487	2 Inch Pipe	Metal	A	Gray	First	Cooling Tower	Negative	< LOD
488	Column	Metal	A	Gray	First	Cooling Tower	Negative	< LOD
489	Fan Motor	Metal	A	Gray	First	Cooling Tower	Negative	< LOD
490	Electric Conduit	Metal	A	Gray	First	Cooling Tower	Negative	< LOD
491	Column Round	Metal	A	Gray	First	Cooling Tower	Negative	< LOD
492	Control Panel	Metal	A	Gray	First	Cooling Tower	Negative	0.4
493	Transformer	Metal	A	Gray	First	Cooling Tower	Negative	< LOD
494	Bollard	Metal	A	Yellow	First	Cooling Tower	Negative	< LOD
495	Ladder	Metal	D	Gray	First	Cooling Tower	Negative	< LOD
496	Door	Metal	A	Gray	First	Chemical Storage	Negative	< LOD
497	Door Frame	Metal	A	Gray	First	Chemical Storage	Negative	< LOD
498	6 Inch Pipe	Metal	A	Gray	First	Chemical Storage	Null	< LOD
499	6 Inch Pipe	Metal	A	Gray	First	Chemical Storage	Negative	< LOD
500	6 Inch Pipe Valve Assembly	Metal	A	Gray	First	Chemical Storage	Negative	< LOD
501	6 Inch Pipe Valve Assembly	Metal	A	Green	First	Chemical Storage	Negative	< LOD
502	4 Inch Pipe	Metal	A	Green	First	Chemical Storage	Negative	0.6
503	Door	Metal	A	Gray	First	Maintenance Building	Negative	< LOD
504	Door Frame	Metal	A	Gray	First	Maintenance Building	Negative	< LOD
505	Wall	Wood	A	Gray	First	Maintenance Building	Negative	< LOD
506	Column	Wood	A	Gray	First	Maintenance Building	Negative	< LOD
507	Ladder	Metal	A	Black	First	Maintenance Building	Negative	< LOD
508	Handrail	Wood	A	Gray	First	Maintenance Building	Negative	< LOD
509	Wall	Concrete	B	Green	First	Maintenance Building	Negative	< LOD
510	Wall	Wood	A	Green	First	Maintenance Building	Negative	< LOD
511	Ceiling	Wood	Upper	Green	First	Maintenance Building	Negative	< LOD
512	Door	Wood	D	Yellow	First	Maintenance Building	Null	< LOD
513	Door	Wood	D	Yellow	First	Maintenance Building	Negative	< LOD
514	6 Inch Pipe	Metal	B	Green	First	Maintenance Building	Negative	< LOD
515	2 Inch Pipe	Metal	B	Green	First	Maintenance Building	Negative	< LOD
516	Door	Wood	B	Brown	First	Maintenance Building	Negative	< LOD
517	Door	Wood	B	Brown	First	Maintenance Building	Negative	< LOD
518	Door Frame	Wood	B	Brown	First	Maintenance Building	Negative	< LOD
519	Wall	Drywall	B	White	First	Maintenance Building	Negative	< LOD
520	Ceiling	Drywall	Upper	White	First	Maintenance Building	Negative	< LOD
521	Window Frame	Drywall	A	Gray	First	Maintenance Building	Negative	< LOD
522	Window Sill	Concrete	A	White	First	Maintenance Building	Negative	< LOD
523	Window Frame	Metal	A	Gray	First	Maintenance Building	Negative	< LOD
524	Wall	Concrete	A	White	First	Maintenance Building	Negative	< LOD
525	Floor	Concrete	Lower	Gray	First	Maintenance Building	Null	< LOD
526	Floor	Concrete	Lower	Gray	First	Maintenance Building	Negative	< LOD
527	Window Frame	Metal	A	Gray	First	Maintenance Building	Negative	< LOD
528	Door	Metal	A	Gray	First	Maintenance Building	Negative	< LOD
529	Door Frame	Metal	A	Gray	First	Maintenance Building	Negative	< LOD
530	Downspout	Metal	D	Gray	First	Maintenance Building	Negative	< LOD
531	Trim	Wood	D	Gray	First	Maintenance Building	Negative	< LOD
532	Column	Metal	D	Gray	First	Precipitator	Negative	< LOD
533	Cinder Line	Metal	D	Gray	First	Precipitator	Negative	< LOD
534	Cross Brace	Metal	D	Gray	First	Precipitator	Negative	< LOD
535	Ladder	Metal	D	Gray	First	Precipitator	Negative	< LOD
536	Tread	Metal	D	Gray	First	Precipitator	Negative	< LOD
537	Handrail	Metal	D	Gray	First	Precipitator	Negative	< LOD
538	Handrail	Metal	D	Gray	First	Precipitator	Negative	< LOD
539	Stringer	Metal	D	Gray	First	Precipitator	Negative	< LOD
540	Electric Conduit	Metal	D	Gray	First	Precipitator	Negative	< LOD

Table 1

SUMMARY OF XRF SAMPLING ANALYSIS FOR LEAD BASED PAINT

Jasper Power Plant

1163 East 15th Street

Jasper, Dubois County, Indiana

Cardno ATC Project No. 170IN1503H

Sample No	Component	Substrate	Side	Color	Floor	Location	Results	Content
541	Damper Controller	Metal	D	Gray	First	Precipitator	Negative	< LOD
542	ID Motor	Metal	D	Gray	First	Precipitator	Negative	< LOD
543	Door	Metal	D	Gray	Fourth	Precipitator	Negative	< LOD
544	Door Frame	Metal	D	Gray	Fourth	Precipitator	Negative	< LOD
545	Column	Metal	D	Gray	Fourth	Precipitator	Negative	< LOD
546	Cross Brace	Metal	D	Gray	Fourth	Precipitator	Negative	< LOD
547	Floor	Metal	D	Gray	Fourth	Precipitator	Negative	< LOD
548	Floor	Metal	D	Gray	Fourth	Precipitator	Negative	< LOD
549	Hatch Cover	Metal	D	Gray	Fourth	Precipitator	Negative	< LOD
550	Handrail	Metal	D	Gray	Fourth	Precipitator	Negative	< LOD
551	Toeboard	Metal	D	Gray	Fourth	Precipitator	Negative	< LOD
552	Ladder	Metal	D	Gray	Fourth	Precipitator	Negative	< LOD
553	Foundation	Concrete	D	Gray	Fourth	Power Plant	Negative	< LOD
554	Wall	Metal	D	Green	Fourth	Power Plant	Negative	< LOD
555	Trim	Metal	D	Green	Fourth	Power Plant	Null	< LOD
556	Trim	Metal	D	Green	Fourth	Power Plant	Negative	< LOD
557	Door	Metal	C	Green	Fourth	Power Plant	Negative	< LOD
558	Foundation	Concrete	C	Yellow	Fourth	Power Plant	Positive	2.5
559	Wall	Metal	C	Gray	Fourth	Power Plant	Negative	0.8
560	Vent	Metal	C	Gray	Fourth	Power Plant	Negative	< LOD
561	Foundation	Concrete	C	Light Gray	Fourth	Power Plant	Negative	< LOD
562	Door	Metal	C	Green	Fourth	Power Plant	Negative	< LOD
563	Wall	Metal	D	Tan	Fourth	Power Plant	Negative	0.1
564	Foundation	Concrete	D	White	Fourth	Power Plant	Negative	< LOD
565	Foundation	Concrete	A	White	Fourth	Power Plant	Negative	< LOD
566	Bollard	Metal	A	Yellow	Fourth	Power Plant	Positive	2.4
567	Natural Gas Regulator	Metal	A	Yellow	Fourth	Power Plant	Negative	< LOD
568	Natural Gas Regulator	Metal	A	Yellow	Fourth	Power Plant	Negative	< LOD
569	Door	Metal	A	Green	Fourth	Power Plant	Negative	< LOD
570	Door Frame	Metal	A	Green	Fourth	Power Plant	Negative	< LOD
571			CAL				Null	1
572			CAL				Positive	1.1
573			CAL				Positive	1
574			CAL				Positive	1.1
575								6.09

CAL = Calibrate, LOD = Less than the limit of detection.

- Red - Results at 1.0 mg/cm^2 or above is considered lead based paint.
- Blue - Results <1.0 mg/cm2 and above LOD.
- If a component is not listed but a reading is listed, this means there was an error in the device or was being calibrated. This information also applies to "Null"

Table 2
SAMPLE LOCATIONS AND ANALYTICAL RESULTS
Jasper Power Plant
1163 East 15th Street
Jasper, Dubois County, Indiana
Cardno ATC Project No. 170IN1503H

Sample Number	HA Number	Material Description	Sample Location	Analytical Results
Storage Building				
JPP-01	1	Gray Wall Coating	Main Area	3.75% Chrysotile*
JPP-02	2	9" White Pipe Insulation	Main Area	ND
JPP-03	3	6" White Pipe Insulation	Main Area	ND
JPP-04	4	2" White Pipe Insulation	Main Area	ND
JPP-05	5	9" Pink Pipe Insulation	Main Area	ND
JPP-06	6	6" Blue Pipe Insulation	Main Area	ND
JPP-07	7	2" Blue Pipe Insulation	Main Area	ND
JPP-08	8	Gray Refractory	Main Area	ND
JPP-09	9	Green Compressed Gasket Material	Main Area	ND
JPP-10	10	Gray Compressed Gasket Material	Main Area	25% Chrysotile
JPP-11	11	Black Refractory	Main Area	ND
JPP-12	12	White Insulation Brick	Main Area	ND
JPP-13	13	Tan Fire Brick	Main Area	ND
JPP-14	14	Gray Cement Blocks	Main Area	ND
JPP-15	15	Gray Refractory	Main Area	ND
JPP-16	16	Gray Insulation Panels	Main Area	ND
JPP-17	17	White Insulation Panels	Main Area	ND
JPP-18	18	Gray Wall Sealant	Exterior	ND
JPP-19	19	White Window Caulk	Exterior	ND
JPP-20	19	White Window Caulk	Exterior	ND
JPP-21	19	White Window Caulk	Exterior	ND
Maintenance Building				
JPP-22	20	White Window Caulk	Exterior	ND
JPP-23	20	White Window Caulk	Exterior	0.5% Chrysotile*
JPP-24	20	White Window Caulk	Exterior	0.25% Chrysotile*
JPP-25	21	Black Asphalt Roofing Material	Garage	ND
JPP-26	21	Black Asphalt Roofing Material	Garage	10% Chrysotile
JPP-27	21	Black Asphalt Roofing Material	Garage	Stop First Positive
JPP-28	22	Brown Roof Insulation	Garage	ND
JPP-29	23	1/2" Gray Mechanical Packing	Garage	65% Chrysotile
JPP-30	24	7/16" Gray Mechanical Packing	Garage	65% Chrysotile
JPP-31	25	5/8" Gray Mechanical Packing	Garage	65% Chrysotile
JPP-32	26	5/16" Gray Mechanical Packing	Garage	65% Chrysotile
JPP-33	27	3/16" Gray Mechanical Packing	Garage	65% Chrysotile
JPP-34	28	1/8" Gray Mechanical Packing	Garage	65% Chrysotile
JPP-35	29	3/8" Sepco Gray Mechanical Packing	Garage	ND
JPP-36	30	1/4" Sepco Gray Mechanical Packing	Garage	ND
JPP-37	31	2" White Gaskets	Garage	ND
JPP-38	32	1" Yellow Gaskets	Garage	25% Chrysotile
JPP-39	33	3" Brown Gaskets	Garage	25% Chrysotile
JPP-40	34	1" White Gaskets	Garage	25% Chrysotile
JPP-41	35	1" White Gasket Rings	Mezzanine	25% Chrysotile
JPP-42	36	1/2" White Gaskets	Mezzanine	65% Chrysotile
JPP-43	37	1" White Rope Insulation	Mezzanine	25% Chrysotile
JPP-44	38	1" Gray Rope Insulation	Mezzanine	ND
JPP-45	39	1" Gray Insulation Panels	Mezzanine	ND
JPP-46	40	3/8" White Mechanical Packing	Mezzanine	60% Chrysotile
JPP-47	41	1/4" White Mechanical Packing	Mezzanine	60% Chrysotile
JPP-48	42	White Insulation Cloth	Mezzanine	ND
JPP-49	43	Drywall Walls	Break Room	ND
JPP-50	43	Drywall Walls	Break Room	ND
JPP-51 Drywall	43	Drywall Walls	Break Room	ND
JPP-51 Joint Compound	43	Drywall Walls	Break Room	ND
Cooling Tower				
JPP-52	44	White Window Caulk	Pump House Exterior	<0.25% Chrysotile*

Table 2
SAMPLE LOCATIONS AND ANALYTICAL RESULTS
Jasper Power Plant
1163 East 15th Street
Jasper, Dubois County, Indiana
Cardno ATC Project No. 170IN1503H

Sample Number	HA Number	Material Description	Sample Location	Analytical Results
JPP-53	44	White Window Caulk	Pump House Exterior	0.25% Chrysotile*
JPP-54	44	White Window Caulk	Pump House Exterior	0.25% Chrysotile*
JPP-55	45	White Roof Caulk	Roof	ND
JPP-56	45	White Roof Caulk	Roof	ND
JPP-57	45	White Roof Caulk	Roof	ND
JPP-58	46	White Paneling	Roof	ND
JPP-59	47	Gray Pipe Coating	Roof	ND
JPP-60	48	Black Pipe Coating	Exterior	10% Chrysotile
JPP-61	49	Black Pipe Coating	Exterior	20% Chrysotile
Plant				
JPP-62	50	Yellow Carpet Mastic	Office No.1	ND
JPP-63	51	White Plaster Ceiling	Office No.1 Restroom	ND
JPP-64	51	White Plaster Ceiling	Office No.1 Restroom	ND
JPP-65	51	White Plaster Ceiling	Office No.1 Restroom	ND
JPP-66	52	2'x4' White Wormhole/Pinhole Ceiling Tile	Office No.2	ND
JPP-67 Floor Tile	53	12"x12" White Floor Tile	Office No.2 Restroom	ND
JPP-67 Mastic	53	Yellow Mastic on 12"x12" White Floor Tile	Office No.2 Restroom	ND
JPP-68 Cove Base	54	Gray Vinyl Cove Base	Office No.2 Restroom	ND
JPP-68 Mastic	54	Brown Mastic on Gray Vinyl Cove Base	Office No.2 Restroom	ND
JPP-69	48	Black Pipe Coating	Basement	Stop First Positive
JPP-70	55	White Pipe Insulation	Basement	10% Chrysotile
JPP-71	56	Pink Pipe Insulation	First Floor	ND
JPP-72	57	White Pipe Insulation	First Floor	ND
JPP-73	57	White Pipe Insulation	First Floor	ND
JPP-74	59	White Pipe Compound	First Floor	1.75% Chrysotile*
JPP-75	57	White Pipe Insulation	Feed Pump Area	ND
JPP-76	31	2" White Gaskets	Feed Pump Area	ND
JPP-77	34	1" White Gaskets	Feed Pump Area	Stop First Positive
JPP-78	1	Gray Wall Coating	Second Floor	2% Chrysotile*
JPP-79	60	White Window Caulk	Second Floor	ND
JPP-80	61	White Pipe Insulation	Second Floor	ND
JPP-81	62	Pink Pipe Insulation	Second Floor	ND
JPP-82	63	Tan Refractory	Second Floor	ND
JPP-83	64	Red Fire Brick	Second Floor	ND
JPP-84	65	9"x9" Green Floor Tile and Mastic	Second Floor Restroom	2.5% Chrysotile*
JPP-85 Cove Base	66	Black Cove Base	Second Floor Restroom	ND
JPP-85 Mastic	66	Brown Mastic on Black Cove Base	Second Floor Restroom	ND
JPP-86	67	2'x4' White Pinhole Ceiling Tile	Operator's Area	ND
JPP-87	68	Gray Insulation	Operator's Area	60% Chrysotile
JPP-88	69	1/8" Black Gasket Rings	Office No.4	60% Chrysotile
JPP-89	70	1" Black Gasket Rings	Office No.4	60% Chrysotile
JPP-90	71	7/16" Sepco Gray Mechanical Packing	Second Floor	ND
JPP-91	72	White Insulation	Fly Ash Collector	ND
JPP-92	73	Yellow Refractory	Third Floor	ND
JPP-93	74	Pink Refractory	Third Floor	ND
JPP-94	75	12"x12" Tan Fire Stone	Third Floor	ND
JPP-95	76	12"x18" Tan Fire Stone	Third Floor	ND
JPP-96	77	Gray Refractory	Third Floor	ND
JPP-97	78	Red Fire Brick	Third Floor	ND
JPP-98	79	White Pipe Insulation	Third Floor	ND
JPP-99	60	White Window Caulk	Third Floor	ND
JPP-100	60	White Window Caulk	Fourth Floor	0.5% Chrysotile*
JPP-101	1	Gray Wall Coating	Fourth Floor	4.5% Chrysotile*
JPP-102	80	3" White Gasket Rings	Fourth Floor	ND
JPP-103	81	White Pipe Insulation	Fourth Floor	ND
JPP-104	82	Tan Tank Insulation	Fourth Floor Economizer	ND
JPP-105	83	Tan Pipe Insulation	Fourth Floor Boiler	ND

Table 2

SAMPLE LOCATIONS AND ANALYTICAL RESULTS

Jasper Power Plant

1163 East 15th Street

Jasper, Dubois County, Indiana

Cardno ATC Project No. 170IN1503H

Sample Number	HA Number	Material Description	Sample Location	Analytical Results
JPP-106	60	White Window Caulk	Fifth Floor Coal Room	0.25% Chrysotile*
JPP-107	84	Black Pipe Sealant	Fifth Floor Coal Room	ND
JPP-108	85	Black Roofing Sealant	Fourth Floor East Roof	ND
JPP-109	86	Tan Refractory	Fifth Floor East Roof	ND
JPP-110	87	White Roof Caulk	Fifth Floor East Roof	ND
JPP-111	88	Black Roof Caulk	Fifth Floor East Roof	ND
JPP-112	85	Black Roof Sealant	Fourth Floor West Roof	ND
JPP-113	89	Black Pipe Coating	Exterior	ND
JPP-114	90	Gray Pipe Sealant	Exterior	ND
JPP-115	92	Gray Joint Caulk	Basement-City Water Line	ND
JPP-116	93	Gray Wall Coating	Fourth Floor West Roof	70% Chrysotile
JPP-117	94	White Block Insulation	Basement-Extraction Liquid Propane Heater	ND
JPP-118	95	White Fiber Insulation	Basement-Extraction Liquid Propane Heater	ND
JPP-119	96	Tan Block Insulation	Basement-Extraction Liquid Propane Heater	ND
JPP-120	97	White Hard Pack Fitting	Basement-Condensate Return Tank	20% Chrysotile
JPP-121	98	White Hard Pack Fitting	Basement-Bottom of Air Injector	20% Chrysotile
JPP-122	99	Brown Insulation Tape	Basement-Hogger Vacuum Line	ND
JPP-123	100	White Hard Pack Fitting	First Floor-Electric Feed Pump	20% Chrysotile
JPP-124	101	Brown Hard Pack Fitting	First Floor-Steam Feed Pump	20% Chrysotile
JPP-125	58	White Insulation Wrap	First Floor-Electric Feed Pump	ND
JPP-126	103	White Block Insulation	Second Floor-Rear Lower Boiler Header	ND
JPP-127	104	White Block Insulation	Plant Second Floor-North Lower Boiler Header	ND
JPP-128	105	White Block Insulation	Second Floor-Front Boiler Header	ND
JPP-129	106	White Joint Caulk	Second Floor-HP Extraction Steam	ND
JPP-130	107	White Hard Pack Fitting	Second Floor-Emergency Water Line	20% Chrysotile
JPP-131	108	White Hard Pack Fitting	Second Floor-Heating Steam Line	20% Chrysotile
JPP-132	109	Tan Block Insulation	Third Floor-Primary Fly Ash Return	ND
JPP-133	110	Tan Block Insulation	Third Floor-Mud Drum	ND
JPP-134	110	White Mud	Third Floor-Mud Drum	ND
JPP-135	111	Gray Joint Caulk	Third Floor-D.A. Tank Control Valve	1.5% Chrysotile*
JPP-136	112	White Mud	Fourth Floor-Steam Drum	ND
JPP-137	113	Lag Cloth	Fourth Floor-Main Steam Line	ND
JPP-138	102	Gray Stucco	Fifth Floor Coal Room	0.5% Chrysotile*

ND = None Detected

- Sample Analysis by EPA 600/R-93/116.

* = Sample Analysis by 400 Point Count Method.

Table 3
INSPECTION SUMMARY
Jasper Power Plant
1163 East 15th Street
Jasper, Dubois County, Indiana
Cardno ATC Project No. 170IN1503H

Func. Area No. *	Functional Area Description	HA No.	Homogeneous Area of Material Description	ACM Type	ACM Y/N **	Material Quantity	Bulk Sample Number(s)
Storage Building							
1-1	Main Area		Concrete Floor		N	N/A	
			Wood Paneling		N	N/A	
			Metal Wall Paneling		N	N/A	
		1	Gray Wall Coating (loose piece)	M	Y	32 SF	JPP-01
			2'x5' White Fiberglass Ceiling Tile		N	N/A	
			Fiberglass Ceiling Paneling		N	N/A	
			Fiberglass Ceiling Insulation		N	N/A	
1-1A	Stored Materials in the Main Area	2	9" White Pipe Insulation		N	N/A	JPP-02
		3	6" White Pipe Insulation		N	N/A	JPP-03
			Fiberglass Insulation		N	N/A	
		4	2" White Pipe Insulation		N	N/A	JPP-04
		5	9" Pink Pipe Insulation		N	N/A	JPP-05
		6	6" Blue Pipe Insulation		N	N/A	JPP-06
		7	2" Blue Pipe Insulation		N	N/A	JPP-07
		8	Gray Refractory (blue bag)		N	N/A	JPP-08
		9	Green Compressed Gasket Material		N	N/A	JPP-09
		10	Gray Compressed Gasket Material	M	Y	25 SF	JPP-10
		11	Black Refractory		N	N/A	JPP-11
		12	White Insulation Brick		N	N/A	JPP-12
		13	Tan Fire Brick		N	N/A	JPP-13
		14	Gray Cement Block		N	N/A	JPP-14
		15	Gray Refractory (green bag)		N	N/A	JPP-15
		16	Gray Insulation Panels		N	N/A	JPP-16
		17	White Insulation Panels		N	N/A	JPP-17
1-2	Restroom		Concrete Floor		N	N/A	
			Wood Walls		N	N/A	
			Fiberglass Wall Insulation		N	N/A	
			Metal Siding		N	N/A	
			Wood Ceiling		N	N/A	
E-1	Exterior		Concrete Foundation		N	N/A	
			Metal Siding		N	N/A	
		18	Gray Wall Sealant		N	N/A	JPP-18
			Metal Roofing		N	N/A	
			Metal Doors		N	N/A	
		19	White Window Caulk		N	N/A	JPP-19,20,21
Maintenance Building							
E-2	Exterior		Concrete Masonry Block Walls		N	N/A	
			Metal Doors		N	N/A	
		20	White Window Caulk		N	N/A	JPP-22,23,24
			Rubber Membrane Roof		N	N/A	
		21	Black Asphalt Roofing Material	M	Y	1,000 SF	JPP-25,26,27
		22	Brown Roof Insulation		N	N/A	JPP-28
1-3	Garage		Concrete Floor		N	N/A	
			Concrete Masonry Block Walls		N	N/A	
			Wood Walls		N	N/A	
			Pegboard Wall Panels		N	N/A	
			Metal Ceiling		N	N/A	
1-3A	Stored Materials in the Garage	23	1/2" Gray Mechanical Packing	M	Y	140 LF	JPP-29
		24	7/16" Gray Mechanical Packing	M	Y	100 LF	JPP-30
		25	5/8" Gray Mechanical Packing	M	Y	75 LF	JPP-31
		26	5/16" Gray Mechanical Packing	M	Y	50 LF	JPP-32
		27	3/16" Gray Mechanical Packing	M	Y	70 LF	JPP-33
		28	1/8" Gray Mechanical Packing	M	Y	60 LF	JPP-34
		29	3/8" Sepco Gray Mechanical Packing		N	N/A	JPP-35
		30	1/4" Sepco Gray Mechanical Packing		N	N/A	JPP-36

Table 3
INSPECTION SUMMARY
Jasper Power Plant
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		31	2" White Gaskets		N	N/A	JPP-37
		32	1" Yellow Gaskets	M	Y	250 LF	JPP-38
		33	3" Brown Gaskets	M	Y	200 LF	JPP-39
		34	1" White Gaskets	M	Y	200 LF	JPP-40
M-1	Mezzanine Area		Wood Floor		N	N/A	
			Concrete Masonry Block Walls		N	N/A	
			Metal Ceiling		N	N/A	
M-1A	Stored on the Mezzanine Area	35	1" White Gasket Rings	M	Y	120 LF	JPP-41
		36	1/2" White Gaskets	M	Y	200 LF	JPP-42
		37	1" White Rope Insulation	M	Y	150 LF	JPP-43
		38	1" Gray Rope Insulation		N	N/A	JPP-44
		39	1" Gray Insulation Panels		N	N/A	JPP-45
		40	3/8" White Mechanical Packing	M	Y	50 LF	JPP-46
		41	1/4" White Mechanical Packing	M	Y	25 LF	JPP-47
		42	White Insulation Cloth		N	N/A	JPP-48
1-4	Restroom		Concrete Floor		N	N/A	
			Concrete Masonry Block Walls		N	N/A	
			Wood Wall Panels		N	N/A	
			Wood Ceiling Panels		N	N/A	
1-5	Break Room		Concrete Floor		N	N/A	
			Concrete Masonry Block Walls		N	N/A	
		43	Drywall Walls		N	N/A	
		43	Drywall Ceiling		N	N/A	JPP-49,50,51
Cooling Tower							
1-6	Cooling Tower Interior		Concrete Floor		N	N/A	
			Wood Floor		N	N/A	
			Wood Walls		N	N/A	
			Plastic Walls		N	N/A	
			Wood Ceiling		N	N/A	
1-7	Pump House Interior		Concrete Floor		N	N/A	
			Concrete Masonry Block Walls		N	N/A	
			Wood Ceiling Tile		N	N/A	
			Fiberglass Ceiling Insulation		N	N/A	
			Wood Ceiling		N	N/A	
1-8	Chlorine Room		Concrete Floor		N	N/A	
			Concrete Masonry Block Walls		N	N/A	
			Wood Ceiling Tile		N	N/A	
			Fiberglass Ceiling Insulation		N	N/A	
			Wood Ceiling		N	N/A	
		13	Tan Fire Brick		N	N/A	
E-3	Pump House Exterior		Concrete Masonry Block Walls		N	N/A	
			Rubber Membrane Roof		N	N/A	
		44	White Window Caulk		N	N/A	JPP-52,53,54
E-4	Cooling Tower Exterior		Concrete Masonry Block Walls		N	N/A	
			Fiberglass Wall Panels		N	N/A	
			Wood Walls		N	N/A	
			Wood Roof		N	N/A	
		45	White Roof Caulk		N	N/A	JPP-55,56,57
		46	White Paneling		N	N/A	JPP-58
		47	Gray Pipe Coating		N	N/A	JPP-59
		48	Black Pipe Coating (aboveground)	M	Y	10 LF	JPP-60
		49	Black Pipe Coating (aboveground)	M	Y	10 LF	JPP-61
Plant Building							
1-9	Office No.1		Brown Carpet		N	N/A	
		50	Yellow Carpet Mastic		N	N/A	JPP-62
			Concrete Floor		N	N/A	

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			Wood Baseboard		N	N/A	
			Wood Wall Panels		N	N/A	
			Wood Walls		N	N/A	
		51	Plaster Ceiling		N	N/A	
1-10	Office No.1 Restroom		Pink Ceramic Floor Tile		N	N/A	
			Concrete Floor		N	N/A	
			Concrete Masonry Block Walls		N	N/A	
		51	Plaster Ceiling		N	N/A	JPP-63,64,65
1-11	Office Entrance		Brown Ceramic Floor Tile		N	N/A	
			Concrete Floor		N	N/A	
			Concrete Masonry Block Walls		N	N/A	
		51	Plaster Ceiling		N	N/A	
1-12	Office No.2		Brown Carpet		N	N/A	
		50	Yellow Carpet Mastic		N	N/A	
			Concrete Floor		N	N/A	
			Wood Baseboard		N	N/A	
			Wood Wall Panels		N	N/A	
			Wood Walls		N	N/A	
		52	2'x4' White Wormhole/Pinhole Ceiling Tile		N	N/A	JPP-66
			Fiberglass Ceiling Insulation		N	N/A	
			Metal Ceiling		N	N/A	
1-13	Office No.2 Restroom	53	12"x12" White Floor Tile and Mastic		N	N/A	JPP-67
			Concrete Floor		N	N/A	JPP-68
		54	Gray Vinyl Cove Base and Mastic		N	N/A	
			Ceramic Wall Tile		N	N/A	
			Concrete Masonry Block Walls		N	N/A	
			Brick Walls		N	N/A	
		52	2'x4' White Wormhole/Pinhole Ceiling Tile		N	N/A	
			Fiberglass Ceiling Insulation		N	N/A	
			Metal Ceiling		N	N/A	
B-1	Basement		Concrete Floor		N	N/A	
			Concrete Walls		N	N/A	
			Concrete Masonry Block Walls		N	N/A	
			Metal Ceiling Beams		N	N/A	
		48	Black Pipe Coating	M	Y	110 LF	JPP-69
		55	White Pipe Insulation	TSI	Y	25 LF	JPP-70
B-1	City Water Line		Fiberglass		N	N/A	
		92	Gray Joint Caulk		N	N/A	JPP-115
B-1	4th Extraction Liquid Propane Heater		Fiberglass Insulation		N	N/A	
		94	White Fiber Insulation		N	N/A	JPP-118
		95	White Block Insulation		N	N/A	JPP-117
		96	Tan Block Insulation		N	N/A	JPP-119
B-1	1" Steam Line	95	White Block Insulation		N	N/A	
B-1	Condensate Return Tank		Fiberglass Tank Insulation		N	N/A	
		97	White Hard Pack Fitting	TSI	Y	2 LF	JPP-120
B-1	Condensate Return Line		Fiberglass Insulation		N	N/A	
B-1	Air Injector Bottom	98	White Hard Pack Fitting	TSI	Y	7 LF	JPP-121
B-1	10" Main Steam Line	95	White Block Insulation		N	N/A	
		56	Pink Pipe Insulation		N	N/A	
B-2	Basement Coal Storage Room		Concrete Floor		N	N/A	
			Metal Floor Grates		N	N/A	
			Concrete Walls		N	N/A	
			Metal Siding		N	N/A	
			Concrete Ceiling		N	N/A	
1-14	Transformer Area		Concrete Floor		N	N/A	
			Concrete Walls		N	N/A	

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			Metal Siding		N	N/A	
			Concrete Masonry Block Walls		N	N/A	
			Concrete Ceiling		N	N/A	
1-15	First Floor		Brown Ceramic Floor Tile		N	N/A	
			Metal Floor Grates		N	N/A	
			Metal Siding		N	N/A	
			Concrete Masonry Block Walls		N	N/A	
			Concrete Walls		N	N/A	
			Concrete Ceiling		N	N/A	
		56	Pink Pipe Insulation		N	N/A	JPP-71
		57	White Pipe Insulation		N	N/A	JPP-72,73
		59	White Pipe Compound	M	Y	1 SF	JPP-74
1-15	10" Main Steam Line	57	White Pipe Insulation		N	N/A	
		56	Pink Pipe Insulation		N	N/A	
1-15	2" Main Stop Valve	57	White Pipe Insulation		N	N/A	
			Fiberglass Insulation Fittings		N	N/A	
1-15	2" Circulating Water Line		Fiberglass Insulation		N	N/A	
1-15	Vacuum Hogger Manifold	57	White Pipe Insulation		N	N/A	
			Fiberglass Insulation Fittings		N	N/A	
1-15	1" Air Ejector Line	57	White Pipe Insulation		N	N/A	
			Fiberglass Insulation		N	N/A	
1-15	Steam Oil Pump Line	57	White Pipe Insulation		N	N/A	
1-15	Steam Seal Line	57	White Pipe Insulation		N	N/A	
1-15	2" Hogger Vacuum Line		Fiberglass Insulation		N	N/A	
		99	Brown Insulation Tape		N	N/A	JPP-122
		57	White Pipe Insulation		N	N/A	
1-15	2" Cooler Water Line		Fiberglass Insulation		N	N/A	
1-15	6" City Water Line		Fiberglass Insulation		N	N/A	
1-15	2" City Water Line		Fiberglass Insulation		N	N/A	
1-15	1" City Water Line		Fiberglass Insulation		N	N/A	
1-15	1" Steam Line		Fiberglass Insulation		N	N/A	
			White Fiberglass Insulation Fittings		N	N/A	
1-15	10" Steam Line	57	White Pipe Insulation		N	N/A	
1-15	Steam Feed Pump	75	White Pipe Insulation		N	N/A	
			Fiberglass Insulation		N	N/A	
		101	Brown Hard Pack Fitting	TSI	Y	9 LF	JPP-124
1-15	Electrical Feed Pump	100	White Hard Pack Fitting	TSI	Y	9 LF	JPP-123
		58	White Insulation Wrap		N	N/A	JPP-125
		57	White Pipe Insulation		N	N/A	
			Fiberglass Insulation		N	N/A	
1-15	1" Water Line (northeast corner)		Fiberglass Insulation		N	N/A	
		100	White Hard Pack Fitting	TSI	Y	5 LF	
1-16	Feed Pump Area		Concrete Floor		N	N/A	
			Metal Floor Grates		N	N/A	
			Concrete Walls		N	N/A	
			Metal Walls		N	N/A	
			Concrete Masonry Block Walls		N	N/A	
			Concrete Ceiling		N	N/A	
			Fiberglass Pipe Insulation		N	N/A	
		100	White Hard Pack Fitting	TSI	Y	87 LF	
		57	White Pipe Insulation		N	N/A	JPP-75
		31	2" White Pipe Gaskets		N	N/A	JPP-76
		34	1" White Pipe Gaskets	M	Y	4 LF	JPP-77
2-1	Second Floor		Brown Ceramic Floor Tile		N	N/A	
			Metal Floor Grates		N	N/A	
			Concrete Floor		N	N/A	

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			Concrete Masonry Block Walls		N	N/A	
			Metal Siding		N	N/A	
		1	Gray Wall Coating	M	Y	5,120 SF	JPP-78
			Metal Walls		N	N/A	
		60	White Window Caulk		N	N/A	JPP-79
			Metal Ceiling Beams		N	N/A	
			Concrete Ceiling		N	N/A	
		61	White Pipe Insulation		N	N/A	JPP-80
		62	Pink Pipe Insulation		N	N/A	JPP-81
		63	Tan Refractory		N	N/A	JPP-82
		64	Red Fire Brick		N	N/A	JPP-83
			Fiberglass Boiler Insulation		N	N/A	
2-1	South Lower Boiler Header	62	Pink Block Insulation		N	N/A	
		103	White Block Insulation		N	N/A	JPP-126
2-1	North Lower Boiler Header	104	White Block Insulation		N	N/A	JPP-127
2-1	Front Header	105	White Block Insulation		N	N/A	JPP-128
2-1	1" Water Line	107	White Hard Pack Fittings	TSI	Y	8 LF	
			Fiberglass Insulation		N	N/A	
			Fiberglass Insulation Fittings		N	N/A	
2-1	8" Header Feed Line	105	White Block Insulation		N	N/A	
2-1	2" Blow Down Line		Fiberglass Insulation		N	N/A	
		105	White Block Insulation		N	N/A	
2-1	HP Extraction Steam Line	105	White Block Insulation		N	N/A	
		106	White Joint Caulk		N	N/A	JPP-129
2-1	Feed Water Master Line		Fiberglass Insulation		N	N/A	
		107	White Hard Pack Fittings	TSI	Y	3 LF	
2-1	Meter Pumps		Fiberglass Insulation		N	N/A	
			Fiberglass Insulation Fittings		N	N/A	
2-1	Heating Steam Line		Fiberglass Insulation		N	N/A	
2-1	10" Feed Pump Water Line		Fiberglass Insulation		N	N/A	
2-1	Extraction Steam Feed	105	White Block Insulation		N	N/A	
			White Fiberglass Elbows		N	N/A	
2-1	Emergency Feed Water Line	107	White Hard Pack Fittings	TSI	Y	2 LF	JPP-130
			Fiberglass Insulation		N	N/A	
2-1	1" Heating Steam Line		Fiberglass Insulation		N	N/A	
2-1	Auxiliary Machine Line		Fiberglass Insulation		N	N/A	
2-1	1" Water Line		Fiberglass Insulation		N	N/A	
2-1	Main Steam Line	105	White Block Insulation		N	N/A	
2-1	2" Heating Steam Line		Fiberglass Insulation		N	N/A	
2-1	1" Heating Steam Line	108	White Hard Pack Fittings	TSI	Y	11 LF	JPP-131
2-1	City Water Fire Hose Connection		Fiberglass Insulation		N	N/A	
		108	White Hard Pack Fittings	TSI	Y	3 LF	
2-1	1" Steam Sampling Line		Fiberglass Insulation		N	N/A	
2-1	1" City Water Line (northeast corner)		Fiberglass Insulation		N	N/A	
2-1	Roof Drain		Fiberglass Insulation		N	N/A	
2-1	10" Steam Line (southwest corner)		Fiberglass Insulation		N	N/A	
2-1	Low Pressure Heater		Fiberglass Insulation		N	N/A	
2-1	1" Water Line (northwest corner of boiler)		Fiberglass Insulation		N	N/A	
		108	White Hard Pack Fittings	TSI	Y	2 LF	
2-1	6" Steam Line (northwest corner of boiler)		Fiberglass Insulation		N	N/A	
2-1	4" Steam Line (northwest corner of boiler)	105	White Block Insulation		N	N/A	
2-1	Turbine Interior	105	White Block Insulation		N	N/A	
			Fiberglass Insulation Fittings		N	N/A	

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			Fiberglass Insulation		N	N/A	
2-1A	Stored Materials on the Second Floor	71	7/16" Sepco Black Mechanical Packing		N	N/A	JPP-90
		34	1" White Gaskets		N	N/A	
		38	1" Gray Rope Insulation		N	N/A	
2-2	Restroom	65	9"x9" Green Floor Tile	M	Y	300 SF	JPP-84
		66	Black Cove Base and Mastic		N	N/A	JPP-85
			Concrete Masonry Block Walls		N	N/A	
			Metal Siding		N	N/A	
		1	Gray Wall Coating	M	Y	560 SF	
			Metal Walls		N	N/A	
			Metal Ceiling		N	N/A	
2-3	Ash Control Room		Concrete Floor		N	N/A	
			Metal Siding		N	N/A	
			Metal Ceiling		N	N/A	
			Fiberglass Wall Insulation		N	N/A	
2-4	Operator's Area		Brown Ceramic Floor Tile		N	N/A	
			Concrete Floor		N	N/A	
			Black Plastic Baseboard		N	N/A	
			Wood Wall Panels		N	N/A	
			Metal Siding		N	N/A	
		67	2'x4' White Pinhole Ceiling Tile		N	N/A	JPP-86
			Fiberglass Ceiling Insulation		N	N/A	
		68	Gray Insulation (inside control panel)	TSI	Y	4 CF	JPP-87
2-5	Office No.3		Brown Ceramic Floor Tile		N	N/A	
			Concrete Floor		N	N/A	
			Black Metal Baseboard		N	N/A	
			Metal Siding		N	N/A	
			Metal Ceiling		N	N/A	
2-6	Office No.4		Brown Ceramic Floor Tile		N	N/A	
			Concrete Floor		N	N/A	
			Black Metal Baseboard		N	N/A	
			Metal Siding		N	N/A	
			Metal Ceiling		N	N/A	
2-6A	Stored Materials in Office No.4	35	1" White Gasket Rings	M	Y	40 LF	
		69	1/8" Black Gasket Rings	M	Y	25 LF	JPP-88
		70	1" Black Gasket Rings	M	Y	15 LF	JPP-89
2-7	Turbine Area		Metal Siding		N	N/A	
			White Fiberglass Blanket Insulation		N	N/A	
		57	White Pipe Insulation		N	N/A	
2-8	Fly Ash Collector		Metal Siding		N	N/A	
		72	White Insulation		N	N/A	JPP-91
3-1	Third Floor		Concrete Floor		N	N/A	
			Metal Floor Grates		N	N/A	
		1	Gray Wall Coating	M	Y	2,500 SF	
			Metal Walls		N	N/A	
			Metal Ceiling		N	N/A	
			Boiler Fiberglass Insulation		N	N/A	
		79	White Pipe Insulation		N	N/A	JPP-98
			Surge Tank Fiberglass Insulation		N	N/A	
			Water Tank Fiberglass Insulation		N	N/A	
		60	White Window Caulk		N	N/A	JPP-99
3-1	Primary Fly Ash Return	109	Tan Block Insulation		N	N/A	JPP-132
3-1	Mud Drum	110	Tan Block Insulation/White Mud		N	N/A	JPP-133,134
3-1	Boiler		Fiberglass Insulation		N	N/A	
3-1	1" Water Line (northwest corner of boiler)	110	Tan Block Insulation		N	N/A	

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3-1	Roof Drain		Fiberglass Insulation		N	N/A	
3-1	1" Water Line		Fiberglass Insulation		N	N/A	
3-1	4" Condensate Return Line		Fiberglass Insulation		N	N/A	
			Fiberglass Insulation Fittings		N	N/A	
3-1	2" Condensate Return Line		Fiberglass Insulation		N	N/A	
3-1	Main Steam Line	105	White Block Insulation		N	N/A	
3-1	6" Extractor Steam Line	105	White Block Insulation		N	N/A	
3-1	Extractor Steam Line to DA Tank		Fiberglass Insulation		N	N/A	
3-1	DA Tank		Fiberglass Insulation		N	N/A	
3-1	2" Water Line (southeast corner)		Fiberglass Insulation		N	N/A	
3-1	4" Steam Line (southeast corner)	105	White Block Insulation		N	N/A	
3-1	DA Tank Control Valve		Fiberglass Insulation		N	N/A	
3-1	1" Steam Line Soot Blower	110	Tan Block Insulation		N	N/A	
3-1	DA Tank Control Valve Assembly	111	Gray Joint Caulk	M	Y	3 LF	JPP-135
			Fiberglass Insulation		N	N/A	
3-1	2" Water Line (east of DA tank)	105	White Block Insulation		N	N/A	
			White Fiberglass Elbows		N	N/A	
3-1	Surge Tank		Fiberglass Insulation		N	N/A	
3-1	2" Water Line (southwest corner of surge tank)	110	Tan Block Insulation		N	N/A	
			White Fiberglass Elbows		N	N/A	
3-1	2" Boiler Feed Water Line		Fiberglass Insulation		N	N/A	
3-1	Economizer Valve Assembly		Fiberglass Insulation		N	N/A	
		105	White Block Insulation		N	N/A	
3-1	Economizer Header (south end)	62	Pink Block Insulation		N	N/A	
3-1	Dust Collector		Fiberglass Insulation		N	N/A	
3-1	2" Water Line (south end-economizer)	105	White Block Insulation		N	N/A	
3-1	Steam Heat Line (near turbine deck)	105	White Block Insulation		N	N/A	
3-1	Roof Drain (over turbine deck)		Fiberglass Insulation		N	N/A	
3-1	Mud Drum Drain (south end)	105	White Block Insulation		N	N/A	
3-1	Superheater Vent		Fiberglass Insulation		N	N/A	
3-1	Main Steam Line (600 psi)		Fiberglass Insulation		N	N/A	
		105	White Block Insulation		N	N/A	
			White Fiberglass Fittings		N	N/A	
3-1A	Stored Materials on the Third Floor	73	Yellow Refractory		N	N/A	JPP-92
		74	Pink Refractory		N	N/A	JPP-93
		75	12"x12" Tan Fire Stone		N	N/A	JPP-94
		76	12"x18" Tan Fire Stone		N	N/A	JPP-95
		12	White Insulation Brick		N	N/A	
		13	Tan Fire Brick		N	N/A	
		77	Gray Refractory (red bag)		N	N/A	JPP-96
		78	Red Fire Brick		N	N/A	JPP-97
4-1	Fourth Floor		Metal Floor Grates		N	N/A	
			Metal Siding		N	N/A	
		1	Gray Wall Coating	M	Y	4,300 SF	JPP-101
		60	White Window Caulk		N	N/A	JPP-100
			Concrete Ceiling		N	N/A	
			Metal Ceiling		N	N/A	
		81	White Pipe Insulation		N	N/A	JPP-103
		82	Tan Tank Insulation (economizer)		N	N/A	JPP-104
		13	Tan Fire Brick (economizer)		N	N/A	
		83	Tan Pipe Insulation (on boiler)		N	N/A	JPP-105
4-1	Main Steam Valve (600 psi)		Fiberglass Insulation		N	N/A	
		105	White Block Insulation		N	N/A	
			White Fiberglass Fittings		N	N/A	
4-1	2" Steam Line (south side of boiler)	105	White Block Insulation		N	N/A	

Table 3
INSPECTION SUMMARY
Jasper Power Plant
1163 East 15th Street
Jasper, Dubois County, Indiana
Cardno ATC Project No. 170IN1503H

Func. Area No. *	Functional Area Description	HA No.	Homogeneous Area of Material Description	ACM Type	ACM Y/N **	Material Quantity	Bulk Sample Number(s)
4-1	2" Steam Valve Assembly	105	White Block Insulation		N	N/A	
4-1	Steam Drum	112	White Mud		N	N/A	JPP-136
4-1	Spray Water Valve Assembly		Fiberglass Insulation		N	N/A	
		107	White Hard Pack Fittings	TSI	Y	4 LF	
4-1	High Pressure Heater		Fiberglass Insulation		N	N/A	
		105	White Block Insulation		N	N/A	
		107	White Hard Pack Fittings	TSI	Y	1 LF	
			Fiberglass Tank Cover		N	N/A	
4-1	Header (south side)	105	White Block Insulation		N	N/A	
4-1	Main Steam Line	105	White Block Insulation		N	N/A	
		113	Lag Cloth		N	N/A	JPP-137
4-1	Steam Line to Soot Blower	62	Pink Block Insulation		N	N/A	
4-1	Steam Drum	105	White Block Insulation		N	N/A	
4-1	2" Steam Line (north side)	105	White Block Insulation		N	N/A	
4-1	Header (north side)	105	White Block Insulation		N	N/A	
4-1	1" Steam Line	110	Tan Block Insulation		N	N/A	
4-1	10" Steam Line	105	White Block Insulation		N	N/A	
4-1A	Stored Materials on the Fourth Floor	80	3" White Gasket Rings		N	N/A	JPP-102
		13	Tan Fire Brick		N	N/A	
5-1	Fifth Floor Coal Room		Concrete Floor		N	N/A	
			Metal Floor Grates		N	N/A	
			Concrete Walls		N	N/A	
			Metal Walls		N	N/A	
		102	Gray Stucco Walls		N	N/A	JPP-138
		1	Gray Wall Coating	M	Y	2,140 SF	
		60	White Window Caulk		N	N/A	JPP-106
			Metal Ceiling		N	N/A	
			Concrete Ceiling		N	N/A	
		84	Black Pipe Sealant		N	N/A	JPP-107
E-5	Exterior		Concrete Walls		N	N/A	
			Brick Walls		N	N/A	
			Metal Siding		N	N/A	
		1	Gray Wall Coating	M	Y	23,850 SF	
		89	Black Pipe Coating		N	N/A	JPP-113
		90	Gray Pipe Sealant		N	N/A	JPP-114
		91	Asphalt Roofing Material	M	A	8,450 SF	
E-6	East Roof (fourth floor access)		Metal Floor		N	N/A	
			Metal Siding		N	N/A	
			Fiberglass Insulation (on flyash collector)		N	N/A	
		85	Black Roof Sealant		N	N/A	JPP-108
E-7	East Roof (fifth floor access)		Gravel (on Roof)		N	N/A	
			Rubber Membrane Roof		N	N/A	
			Steel Stack		N	N/A	
		86	Tan Refractory		N	N/A	JPP-109
		87	White Roof Caulk		N	N/A	JPP-110
		88	Black Roof Caulk		N	N/A	JPP-111
E-8	West Roof (fourth floor access)		Gravel (on Roof)		N	N/A	
			Rubber Membrane Roof		N	N/A	
			Metal Siding		N	N/A	
		85	Black Roof Sealant		N	N/A	JPP-112
		93	Gray Wall Coating (over arch siding)	M	Y	1,300 SF	JPP-116
E-9	Ash Silo		Brick Walls		N	N/A	
			Metal Siding		N	N/A	
			Utility Sheds				
E-10	Utility Shed		Concrete Floor		N	N/A	
			Metal Siding		N	N/A	

Table 3
INSPECTION SUMMARY
Jasper Power Plant
1163 East 15th Street
Jasper, Dubois County, Indiana
Cardno ATC Project No. 170IN1503H

Func. Area No. *	Functional Area Description	HA No.	Homogeneous Area of Material Description	ACM Type	ACM Y/N **	Material Quantity	Bulk Sample Number(s)
			Metal Ceiling		N	N/A	
			Wood Framing		N	N/A	
			Styrofoam Wall Insulation		N	N/A	
E-11	Acid Storage Shed		Concrete Floor		N	N/A	
			Metal Siding		N	N/A	
			Metal Ceiling		N	N/A	
			Wood Framing		N	N/A	

Notes:

***** = Functional Area Number includes the floor Number (or letter) and room number.

****** = Y is positive (contains more than 1-% asbestos), N is Negative (contains 1-% or less asbestos), A is assumed to contain asbestos.

Quantity = SF is square feet, LF is linear feet, CF is cubic feet.

ACM Type = M is Miscellaneous, TSI is Thermal Systems Insulation.

Table 4

ACM TO BE REMOVED PRIOR TO DEMOLITION OR RENOVATION

Jasper Power Plant

1163 East 15th Street

Jasper, Dubois County, Indiana

Cardno ATC Project No. 170IN1503H

Func. Area No. *	Functional Area Description	HA No.	Homogeneous Area of Material Description	ACM Type **	Friable Class ***	Material Quantity
Storage Building						
1-1	Main Area	1	Gray Wall Coating	M	II	32 SF
Maintenance Building						
M-1A	Stored on the Mezzanine	37	1" White Rope Insulation	TSI	F	150 LF
Plant						
2-1	Second Floor	1	Gray Wall Coating	M	II	5,120 SF
2-2	Restroom	1	Gray Wall Coating	M	II	560 SF
3-1	Third Floor	1	Gray Wall Coating	M	II	2,500 SF
4-1	Fourth Floor	1	Gray Wall Coating	M	II	4,300 SF
5-1	Fifth Floor Coal Room	1	Gray Wall Coating	M	II	2,140 SF
E-5	Exterior	1	Gray Wall Coating	M	II	23,850 SF
B-1	Basement	55	White Pipe Insulation	TSI	F	25 LF
2-4	Operator's Area	68	Gray Insulation	TSI	F	4 CF
E-8	West Roof (fourth floor access)	93	Gray Wall Coating (over arched siding)	M	II	1,300 SF
B-1	Condensate Return Tank	97	White Hard Pack Fittings	TSI	F	2 LF
B-1	Air Injector Bottom	98	White Hard Pack Fittings	TSI	F	7 LF
1-15	Electrical Feed Pump	100	White Hard Pack Fittings	TSI	F	9 LF
1-15	1" Water Line (northeast corner)	100	White Hard Pack Fittings	TSI	F	5 LF
1-16	Feed Pump Area	100	White Hard Pack Fittings	TSI	F	87 LF
1-15	Steam Feed Pump	101	Brown Hard Pack Fittings	TSI	F	9 LF
2-1	1" Water Line	107	White Hard Pack Fittings	TSI	F	8 LF
2-1	Feed Water Master Line	107	White Hard Pack Fittings	TSI	F	3 LF
2-1	Emergency Feed Water Line	107	White Hard Pack Fittings	TSI	F	2 LF
4-1	Spray Water Valve Assembly	107	White Hard Pack Fittings	TSI	F	4 LF
4-1	High Pressure Heater	107	White Hard Pack Fittings	TSI	F	1 LF
2-1	1" Heating Steam Line	108	White Hard Pack Fittings	TSI	F	11 LF
2-1	City Water Fire Hose Connection	108	White Hard Pack Fittings	TSI	F	3 LF
2-1	1" Water Line (northwest corner of boiler)	108	White Hard Pack Fittings	TSI	F	2 LF

NOTES:

* = Functional Area Number includes the floor Number (or letter) and room number.

** = M is Miscellaneous, TSI is Thermal Systems Insulation.

*** = F is Friable, II is Category II non-friable

Table 5

CATEGORY I AND II NON-FRIABLE ACM

Jasper Power Plant

1163 East 15th Street

Jasper, Dubois County, Indiana

Cardno ATC Project No. 170IN1503H

Func. Area No. *	Functional Area Description	HA No.	Homogeneous Area of Material Description	ACM Type **	Friable Class ***	Material Quantity
Storage Building						
1-1A	Stored Materials in the Main Area	10	Gray Compressed Gasket Material	M	I	25 SF
Maintenance Building						
E-2	Exterior	21	Black Asphalt Roofing Material	M	I	1,000 SF
1-3A	Stored Materials in the Garage	23	1/2" Gray Mechanical Packing	M	I	140 LF
1-3A	Stored Materials in the Garage	24	7/16" Gray Mechanical Packing	M	I	100 LF
1-3A	Stored Materials in the Garage	25	5/8" Gray Mechanical Packing	M	I	75 LF
1-3A	Stored Materials in the Garage	26	5/16" Gray Mechanical Packing	M	I	50 LF
1-3A	Stored Materials in the Garage	27	3/16" Gray Mechanical Packing	M	I	70 LF
1-3A	Stored Materials in the Garage	28	1/8" Gray Mechanical Packing	M	I	60 LF
1-3A	Stored Materials in the Garage	32	1" Yellow Gaskets	M	I	250 LF
1-3A	Stored Materials in the Garage	33	3" Brown Gaskets	M	I	200 LF
1-3A	Stored Materials in the Garage	34	1" White Gaskets	M	I	200 LF
M-1A	Stored on the Mezzanine Area	35	1" White Gasket Rings	M	I	120 LF
M-1A	Stored on the Mezzanine Area	36	1/2" White Gaskets	M	I	200 LF
M-1A	Stored on the Mezzanine Area	40	3/8" White Mechanical Packing	M	I	50 LF
M-1A	Stored on the Mezzanine Area	41	1/4" White Mechanical Packing	M	I	25 LF
Cooling Tower						
E-4	Cooling Tower Exterior	48	Black Pipe Coating (aboveground)	M	II	10 LF
E-5	Cooling Tower Exterior	49	Black Pipe Coating (aboveground)	M	II	10 LF
Plant						
1-16	Feed Pump Area	34	1" White Pipe Gaskets	M	I	4 LF
2-6A	Stored Materials in Office No.4	35	1" White Gasket Rings	M	I	40 LF
B-1	Basement	48	Black Pipe Coating	M	II	110 LF
1-15	First Floor	59	White Pipe Compound	M	I	1 SF
2-2	Restroom	65	9"x9" Green Floor Tile	M	I	300 SF
2-6A	Stored Materials in Office No.4	69	1/8" Black Gasket Rings	M	I	25 LF
2-6A	Stored Materials in Office No.4	70	1" Black Gasket Rings	M	I	15 LF
E-5	Exterior	91	Asphalt Roofing Material	M	I	8,450 SF
3-1	DA Tank Control Valve Assembly	111	Gray Joint Caulk	M	I	3 LF

NOTES:

***** = Functional Area Number includes the floor Number (or letter) and room number.

****** = M is Miscellaneous.

******* = I is Category I non-friable / II is Category II non-friable.

APPENDIX A

Photographs

Jasper Power Plant
Indiana 15 Regional Planning Commission
1163 East 15th Street
Jasper, Dubois County, Indiana
Cardno ATC Project No. 170IN1503H

Index for Photographs

Photo No.	Photo Description
1	Plant
2	Storage Building
3	Maintenance Building
4	White Pipe Insulation in Plant Basement
5	White Hard Pack Fitting
6	Stored Packings in Maintenance Building
7	Turbine Area in Plant
8	View of Gray Wall Coating on Plant Exterior

1 - Plant

2 - Storage Building

ASBESTOS INVESTIGATION
Jasper Power Plant
1163 East 15th Street
Jasper, Dubois County, Indiana

Cardno ATC Project No.
170IN1503H

Cardno ATC
Shaping the Future

SITE PHOTOGRAPHS

3 - Maintenance Building

4 - White Pipe Insulation in Plant Basement

ASBESTOS INVESTIGATION
Jasper Power Plant
1163 East 15th Street
Jasper, Dubois County, Indiana

Cardno ATC Project No.
170IN1503H

Cardno ATC
Shaping the Future

SITE PHOTOGRAPHS

5 - White Hard Pack Fitting

6 - Stored Packings in Maintenance Building

ASBESTOS INVESTIGATION
Jasper Power Plant
1163 East 15th Street
Jasper, Dubois County, Indiana

Cardno ATC Project No.
170IN1503H

Cardno ATC
Shaping the Future

SITE PHOTOGRAPHS

7 - Turbine Area in Plant

8 - View of Gray Wall Coating on Plant Exterior

ASBESTOS INVESTIGATION
Jasper Power Plant
1163 East 15th Street
Jasper, Dubois County, Indiana

Cardno ATC Project No.
170IN1503H

Cardno ATC
Shaping the Future

SITE PHOTOGRAPHS

APPENDIX B

Certifications and Licenses

Indiana Department of Environmental Management
100 N. Senate Avenue
Mail Code 61-52 IGCN 1003
Indianapolis, IN 46204-2251

April 25, 2014

Brian L. Kleeman
Cardno-ATC
4208 Hunters Trce
Evansville IN 47715

Re: Asbestos Inspector # 19A000989

Based upon the review of your license application, the Office of Air Quality has determined that you have fulfilled the requirements of 326 IAC 18 and are eligible for licensing in the following discipline:

Asbestos Inspector

Your Asbestos Inspector license is attached below. The license is waterproof and tear resistant. Please sign your license and do not laminate or alter your license in anyway. Your license must be available for review at all times while implementing an asbestos project. This license may be revoked, pursuant to 326 IAC 18-1-7, if you:

(1) Violate any requirements of these rules (326 IAC 18), 326 IAC 14-10, or any requirement of the Asbestos-Containing Materials in Schools Rule or any other federal, state, or local regulation pertaining to asbestos in buildings or to asbestos projects.
(2) Falsify information on your application for licensing.
(3) Fail to meet any qualifications specified in 326-IAC 18-1-4.
(4) Conduct asbestos project, or related asbestos handling activity, in a manner which is hazardous to the public health.

Your license is valid effective 06/15/2014, and will expire on 06/15/2015, as indicated on your card. We suggest that you attend the required training and submit an application for license renewal early to insure your license does not lapse. NOTE: 326 IAC 18-1-4(h) and 326 IAC 18-1-6(e) require that any individual who has an eighteen (18) month lapse between any two training courses of the same discipline to attend an initial training course for the discipline in which they are seeking a license. In order to avoid re-taking the initial training course you must have attended a refresher in the discipline you are seeking a license within eighteen (18) months from the date of issuance of your last training course certificate.

Office of Air Quality, Asbestos Licensing Section (317) 233-3861

Indiana Dept. of Environmental Management

Brian L. Kleeman

Asbestos Inspector License #: 19A000989

Effective: **06/15/2014**	Expiration: **06/15/2015**
Birth Date: **05/27/1980**	Gender: **M**
Height: **6-00**	Eye Color: **Blue**
Weight: **185**	Hair Color: **Brown**

Indiana Department of Environmental Management
100 N. Senate Avenue
Mail Code 61-52 IGCN 1003
Indianapolis, IN 46204-2251

October 30, 2014

Timothy R. Gish
ATC Associates
7988 Centerpoint Dr. Suite 100
Indianapolis IN 46256

Re: Asbestos Inspector # 195423045

Based upon the review of your license application, the Office of Air Quality has determined that you have fulfilled the requirements of 326 IAC 18 and are eligible for licensing in the following discipline:

Asbestos Inspector

Your Asbestos Inspector license is attached below. The license is waterproof and tear resistant. Please sign your license and do not laminate or alter your license in anyway. Your license must be available for review at all times while implementing an asbestos project. This license may be revoked, pursuant to 326 IAC 18-1-7, if you:

(1) Violate any requirements of these rules (326 IAC 18), 326 IAC 14-10, or any requirement of the Asbestos-Containing Materials in Schools Rule or any other federal, state, or local regulation pertaining to asbestos in buildings or to asbestos projects.
(2) Falsify information on your application for licensing.
(3) Fail to meet any qualifications specified in 326-IAC 18-1-4.
(4) Conduct asbestos project, or related asbestos handling activity, in a manner which is hazardous to the public health.

Your license is valid effective 11/01/2014, and will expire on 11/01/2015, as indicated on your card. We suggest that you attend the required training and submit an application for license renewal early to insure your license does not lapse. NOTE: 326 IAC 18-1-4(h) and 326 IAC 18-1-6(e) require that any individual who has an eighteen (18) month lapse between any two training courses of the same discipline to attend an initial training course for the discipline in which they are seeking a license. In order to avoid re-taking the initial training course you must have attended a refresher in the discipline you are seeking a license within eighteen (18) months from the date of issuance of your last training course certificate.

Office of Air Quality, Asbestos Licensing Section (317) 233-3861

Indiana Dept. of Environmental Management

Timothy R. Gish

Asbestos Inspector License #: 195423045

Effective: **11/01/2014**	Expiration: **11/01/2015**
Birth Date: **07/18/1955**	Gender: **M**
Height: **6-03**	Eye Color: **Brown**
Weight: **170**	Hair Color: **Gray**

Indiana State Department of Health
2 North Meridian Street, Section 5J
Indianapolis, Indiana 46204

Lead Risk Assessor

Certificate Number	Expiration Date
IND000983	03/13/2015

Timothy R. Gish

Gregory N. Larkin
Gregory N. Larkin M.D. F.A.A.F.P.
State Health Commissioner
Indiana State Department of Health

STATE FORM 49122 (9-98)

United States Department of Commerce
National Institute of Standards and Technology

Certificate of Accreditation to ISO/IEC 17025:2005

NVLAP LAB CODE: 200188-0

EMSL Analytical, Inc.

Indianapolis, IN

is accredited by the National Voluntary Laboratory Accreditation Program for specific services, listed on the Scope of Accreditation, for:

AIRBORNE ASBESTOS FIBER ANALYSIS

This laboratory is accredited in accordance with the recognized International Standard ISO/IEC 17025:2005. This accreditation demonstrates technical competence for a defined scope and the operation of a laboratory quality management system (refer to joint ISO-ILAC-IAF Communique dated January 2009).

2014-04-01 through 2015-03-31

Effective dates

For the National Institute of Standards and Technology

National Voluntary Laboratory Accreditation Program

SCOPE OF ACCREDITATION TO ISO/IEC 17025:2005

EMSL Analytical, Inc.
2001 E. 52nd Street
Indianapolis, IN 46205-1405
Mr. Richard Harding
Phone: 317-803-2997 Fax: 317-803-3047
E-Mail: rharding@emsl.com
URL: http://www.emsl.com

AIRBORNE ASBESTOS FIBER ANALYSIS (TEM) **NVLAP LAB CODE 200188-0**

NVLAP Code	*Designation / Description*
18/A02	U.S. EPA's "Interim Transmission Electron Microscopy Analytical Methods-Mandatory and Nonmandatory-and Mandatory Section to Determine Completion of Response Actions" as found in 40 CFR, Part 763, Subpart E, Appendix A.

2014-04-01 through 2015-03-31

Effective dates

For the National Institute of Standards and Technology

United States Department of Commerce
National Institute of Standards and Technology

Certificate of Accreditation to ISO/IEC 17025:2005

NVLAP LAB CODE: 200188-0

EMSL Analytical, Inc.

Indianapolis, IN

is accredited by the National Voluntary Laboratory Accreditation Program for specific services, listed on the Scope of Accreditation, for:

BULK ASBESTOS FIBER ANALYSIS

This laboratory is accredited in accordance with the recognized International Standard ISO/IEC 17025:2005. This accreditation demonstrates technical competence for a defined scope and the operation of a laboratory quality management system (refer to joint ISO-ILAC-IAF Communique dated January 2009).

2014-04-01 through 2015-03-31

Effective dates

For the National Institute of Standards and Technology

National Voluntary Laboratory Accreditation Program

SCOPE OF ACCREDITATION TO ISO/IEC 17025:2005

EMSL Analytical, Inc.
2001 E. 52nd Street
Indianapolis, IN 46205-1405
Mr. Richard Harding
Phone: 317-803-2997 Fax: 317-803-3047
E-Mail: rharding@emsl.com
URL: http://www.emsl.com

BULK ASBESTOS FIBER ANALYSIS (PLM) **NVLAP LAB CODE 200188-0**

NVLAP Code	*Designation / Description*
18/A01	EPA 600/M4-82-020: Interim Method for the Determination of Asbestos in Bulk Insulation Samples
18/A03	EPA 600/R-93/116: Method for the Determination of Asbestos in Bulk Building Materials

2014-04-01 through 2015-03-31

Effective dates

For the National Institute of Standards and Technology

APPENDIX C

Laboratory Report and Chain of Custody

EMSL Analytical, Inc.
2001 East 52nd St., Indianapolis, IN 46205
Phone/Fax: (317) 803-2997 / (317) 803-3047
http://www.EMSL.com indianapolislab@emsl.com

EMSL Order:	161502118
CustomerID:	ATAS63
CustomerPO:	170EM00003
ProjectID:	

Attn: **Brian Kleeman**
Cardno ATC
255 South Garvin Street
Suite G
Evansville, IN 47713

Phone:	(812) 436-9250
Fax:	(812) 436-9251
Received:	02/12/15 9:10 AM
Analysis Date:	2/17/2015
Collected:	2/9/2015

Project: **JASPER POWER PLANT / 170EM00003**

Test Report: Asbestos Analysis of Bulk Materials via EPA 600/R-93/116 Method using Polarized Light Microscopy

			Non-Asbestos				Asbestos	
Sample	**Description**	**Appearance**	**%**	**Fibrous**	**%**	**Non-Fibrous**	**%**	**Type**
JPP-01 *161502118-0001*	storage bldg main area - wall coating	White/Black/Green Fibrous Heterogeneous			95%	Non-fibrous (other)	**5%**	**Chrysotile**
JPP-02 *161502118-0002*	storage bldg main area - 9" pipe ins	White Fibrous Homogeneous	25%	Cellulose	75%	Non-fibrous (other)		**None Detected**
JPP-03 *161502118-0003*	storage bldg main area - 6" pipe ins	White Fibrous Homogeneous	25%	Cellulose	75%	Non-fibrous (other)		**None Detected**
JPP-04 *161502118-0004*	storage bldg main area - 2" pipe ins	White Fibrous Homogeneous	25%	Cellulose	75%	Non-fibrous (other)		**None Detected**
JPP-05 *161502118-0005*	storage bldg main area - 9" pipe ins	Pink Non-Fibrous Homogeneous			100%	Non-fibrous (other)		**None Detected**
JPP-06 *161502118-0006*	storage bldg main area - 6" pipe ins	Blue Fibrous Homogeneous	15%	Synthetic	85%	Non-fibrous (other)		**None Detected**
JPP-07 *161502118-0007*	storage bldg main area - 2" pipe ins	Blue Fibrous Homogeneous	15%	Synthetic	85%	Non-fibrous (other)		**None Detected**
JPP-08 *161502118-0008*	storage bldg main area - refractory	Gray Non-Fibrous Homogeneous	5%	Synthetic	95%	Non-fibrous (other)		**None Detected**

Analyst(s)

Craig Nixon (61) *Ross Matlock (34)*
Jadda Moffett (18)

Richard Harding, Laboratory Manager
or other approved signatory

Initial report from 02/17/2015 08:36:36

EMSL Analytical, Inc.
2001 East 52nd St., Indianapolis, IN 46205
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EMSL Order:	161502118
CustomerID:	ATAS63
CustomerPO:	170EM00003
ProjectID:	

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Received:	02/12/15 9:10 AM
Analysis Date:	2/17/2015
Collected:	2/9/2015

Project: **JASPER POWER PLANT / 170EM00003**

Test Report: Asbestos Analysis of Bulk Materials via EPA 600/R-93/116 Method using Polarized Light Microscopy

			Non-Asbestos				Asbestos	
Sample	**Description**	**Appearance**	**%**	**Fibrous**	**%**	**Non-Fibrous**	**%**	**Type**
JPP-09 *161502118-0009*	storage bldg main area - gasket matl	White/Green Fibrous Homogeneous	80%	Cellulose	20%	Non-fibrous (other)		**None Detected**
JPP-10 *161502118-0010*	storage bldg main area - gasket matl	Black Fibrous Homogeneous			75%	Non-fibrous (other)	**25%**	**Chrysotile**
JPP-11 *161502118-0011*	storage bldg main area - refractory	Black Non-Fibrous Homogeneous			20% 80%	Quartz Non-fibrous (other)		**None Detected**
JPP-12 *161502118-0012*	storage bldg main area - ins brick	White Non-Fibrous Homogeneous			100%	Non-fibrous (other)		**None Detected**
JPP-13 *161502118-0013*	storage bldg main area - fire brick	Tan Non-Fibrous Homogeneous			100%	Non-fibrous (other)		**None Detected**
JPP-14 *161502118-0014*	storage bldg main area - cemnt block	Gray Non-Fibrous Homogeneous	5%	Cellulose	95%	Non-fibrous (other)		**None Detected**
JPP-15 *161502118-0015*	storage bldg main area - refractory	Gray Non-Fibrous Homogeneous	2%	Glass	15% 83%	Perlite Non-fibrous (other)		**None Detected**
JPP-16 *161502118-0016*	storage bldg main area - ins panels	Gray Fibrous Homogeneous	60%	Min. Wool	40%	Non-fibrous (other)		**None Detected**

Analyst(s)

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Jadda Moffett (18)

Richard Harding, Laboratory Manager
or other approved signatory

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JPP-17 *161502118-0017*	storage bldg main area - ins panels	White Fibrous Homogeneous	65%	Min. Wool	20% 15%	Perlite Non-fibrous (other)		**None Detected**
JPP-18 *161502118-0018*	storage bldg ext - wall sealant	Gray/Green Non-Fibrous Homogeneous			100%	Non-fibrous (other)		**None Detected**
			Inseparable paint / coating layer included in analysis					
JPP-19 *161502118-0019*	storage bldg ext - wdw caulk	White Non-Fibrous Homogeneous			100%	Non-fibrous (other)		**None Detected**
JPP-20 *161502118-0020*	storage bldg ext - wdw caulk	White Non-Fibrous Homogeneous			100%	Non-fibrous (other)		**None Detected**
JPP-21 *161502118-0021*	storage bldg ext - wdw caulk	White Non-Fibrous Homogeneous			100%	Non-fibrous (other)		**None Detected**
JPP-22 *161502118-0022*	maint bldg ext - wdw caulk	Gray/White Non-Fibrous Homogeneous			100%	Non-fibrous (other)		**None Detected**
			Inseparable paint / coating layer included in analysis The sample group is not homogeneous					
JPP-23 *161502118-0023*	maint bldg ext - wdw caulk	Tan/White Non-Fibrous Homogeneous			100%	Non-fibrous (other)	**<1%**	**Chrysotile**
			Inseparable paint / coating layer included in analysis The sample group is not homogeneous					

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JPP-24 *161502118-0024*	maint bldg ext - wdw caulk	Gray/Tan Non-Fibrous Homogeneous			100%	Non-fibrous (other)	**<1%**	**Chrysotile**
			Inseparable paint / coating layer included in analysis The sample group is not homogeneous					
JPP-25 *161502118-0025*	garage - asphalt roof matl	Black Non-Fibrous Homogeneous	5%	Cellulose	95%	Non-fibrous (other)		**None Detected**
			The sample group is not homogeneous					
JPP-26 *161502118-0026*	garage - asphalt roof matl	Black Fibrous Homogeneous	20%	Cellulose	70%	Non-fibrous (other)	**10%**	**Chrysotile**
			The sample group is not homogeneous					
JPP-27 *161502118-0027*	garage - asphalt roof matl							**Stop Positive (Not Analyzed)**
			The sample group is not homogeneous					
JPP-28 *161502118-0028*	garage - roof ins	Brown Fibrous Homogeneous	95%	Cellulose	5%	Non-fibrous (other)		**None Detected**
JPP-29 *161502118-0029*	garage - 1/2" mech packing	Gray Fibrous Homogeneous			35%	Non-fibrous (other)	**65%**	**Chrysotile**
JPP-30 *161502118-0030*	garage - 7/16" mech packing	Gray Fibrous Homogeneous			35%	Non-fibrous (other)	**65%**	**Chrysotile**

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			Non-Asbestos				Asbestos	
Sample	**Description**	**Appearance**	**%**	**Fibrous**	**%**	**Non-Fibrous**	**%**	**Type**
JPP-31 *161502118-0031*	garage - 5/8" mech packing	Gray Fibrous Homogeneous			35%	Non-fibrous (other)	**65%**	**Chrysotile**
JPP-32 *161502118-0032*	garage - 5/16" mech packing	Gray Fibrous Homogeneous			35%	Non-fibrous (other)	**65%**	**Chrysotile**
JPP-33 *161502118-0033*	garage - 3/16" mech packing	Gray Fibrous Homogeneous			35%	Non-fibrous (other)	**65%**	**Chrysotile**
JPP-34 *161502118-0034*	garage - 1/8" mech packing	Gray Fibrous Homogeneous			35%	Non-fibrous (other)	**65%**	**Chrysotile**
JPP-35 *161502118-0035*	garage - 3/8" mech packing	Gray Non-Fibrous Homogeneous			100%	Non-fibrous (other)		**None Detected**
JPP-36 *161502118-0036*	garage - 1/4" mech packing	Gray Non-Fibrous Homogeneous	2%	Glass	98%	Non-fibrous (other)		**None Detected**
JPP-37 *161502118-0037*	garage - 2" gaskets	White Fibrous Homogeneous	90%	Glass	10%	Non-fibrous (other)		**None Detected**
JPP-38 *161502118-0038*	garage - 1" gaskets	Yellow Fibrous Homogeneous	50%	Synthetic	25%	Non-fibrous (other)	**25%**	**Chrysotile**

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Sample	**Description**	**Appearance**	**%**	**Fibrous**	**%**	**Non-Fibrous**	**%**	**Type**
JPP-39 *161502118-0039*	garage - 3" gaskets	White Fibrous Homogeneous	50%	Cellulose	25%	Non-fibrous (other)	**25%**	**Chrysotile**
JPP-40 *161502118-0040*	garage - 1" gaskets	White Fibrous Homogeneous	50%	Cellulose	25%	Non-fibrous (other)	**25%**	**Chrysotile**
JPP-41 *161502118-0041*	maint bldg mezz - 1" gasket rings	White Fibrous Homogeneous	50%	Cellulose	25%	Non-fibrous (other)	**25%**	**Chrysotile**
JPP-42 *161502118-0042*	maint bldg mezz - 1/2" gaskets	White Fibrous Homogeneous			35%	Non-fibrous (other)	**65%**	**Chrysotile**
JPP-43 *161502118-0043*	maint bldg mezz - 1" rope ins	White Fibrous Homogeneous	40% 5%	Cellulose Synthetic	30%	Non-fibrous (other)	**25%**	**Chrysotile**
JPP-44 *161502118-0044*	maint bldg mezz - 1" rope ins	White Fibrous Homogeneous	95%	Glass	5%	Non-fibrous (other)		**None Detected**
JPP-45 *161502118-0045*	maint bldg mezz - 1" ins panels	Gray Fibrous Homogeneous	95%	Min. Wool	5%	Non-fibrous (other)		**None Detected**
JPP-46 *161502118-0046*	maint bldg mezz - 3/8" mech packing	White Fibrous Homogeneous	20%	Cellulose	20%	Non-fibrous (other)	**60%**	**Chrysotile**

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Sample	**Description**	**Appearance**	**%**	**Fibrous**	**%**	**Non-Fibrous**	**%**	**Type**
JPP-47 *161502118-0047*	maint bldg mezz - 1/4" mech packing	White Fibrous Homogeneous	20%	Cellulose	20%	Non-fibrous (other)	**60%**	**Chrysotile**
JPP-48 *161502118-0048*	maint bldg mezz - ins cloth	White Fibrous Homogeneous	90%	Glass	10%	Non-fibrous (other)		**None Detected**
JPP-49 *161502118-0049*	break room - drywall walls	Brown/White Fibrous Heterogeneous	25%	Cellulose	70% 5%	Gypsum Non-fibrous (other)		**None Detected**
		Inseparable paint / coating layer included in analysis						
JPP-50 *161502118-0050*	break room - drywall walls	Brown/White Fibrous Heterogeneous	25%	Cellulose	70% 5%	Gypsum Non-fibrous (other)		**None Detected**
JPP-51-Drywall *161502118-0051*	break room - drywall walls	Brown/White Fibrous Heterogeneous	25%	Cellulose	70% 5%	Gypsum Non-fibrous (other)		**None Detected**
JPP-51-Joint Compound *161502118-0051A*	break room - drywall walls	White Non-Fibrous Homogeneous			100%	Non-fibrous (other)		**None Detected**
		Inseparable paint / coating layer included in analysis						
JPP-52 *161502118-0052*	pump house ext - wdw caulk	White Non-Fibrous Homogeneous			100%	Non-fibrous (other)	**<1%**	**Chrysotile**
JPP-53 *161502118-0053*	pump house ext - wdw caulk	White Non-Fibrous Homogeneous			100%	Non-fibrous (other)	**<1%**	**Chrysotile**

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Sample	**Description**	**Appearance**	**%**	**Fibrous**	**%**	**Non-Fibrous**	**%**	**Type**
JPP-54 *161502118-0054*	pump house ext - wdw caulk	White Non-Fibrous Homogeneous			100%	Non-fibrous (other)	**<1%**	**Chrysotile**
JPP-55 *161502118-0055*	cooling tower roof - roof caulk	White Non-Fibrous Homogeneous			100%	Non-fibrous (other)		**None Detected**
JPP-56 *161502118-0056*	cooling tower roof - roof caulk	Gray Non-Fibrous Homogeneous	2%	Cellulose	98%	Non-fibrous (other)		**None Detected**
JPP-57 *161502118-0057*	cooling tower roof - roof caulk	White Non-Fibrous Homogeneous			100%	Non-fibrous (other)		**None Detected**
JPP-58 *161502118-0058*	cooling tower roof - paneling	White Fibrous Heterogeneous	45%	Glass	55%	Non-fibrous (other)		**None Detected**
JPP-59 *161502118-0059*	cooling tower roof - pipe coating	Gray Non-Fibrous Homogeneous			100%	Non-fibrous (other)		**None Detected**
JPP-60 *161502118-0060*	cooling tower ext - pipe coating	Brown/Black Fibrous Homogeneous	3%	Glass	87%	Non-fibrous (other)	**10%**	**Chrysotile**
JPP-61 *161502118-0061*	cooling tower ext - pipe coating	Brown/Black Fibrous Homogeneous			80%	Non-fibrous (other)	**20%**	**Chrysotile**

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Sample	Description	Appearance	Non-Asbestos % Fibrous	Non-Asbestos % Non-Fibrous	Asbestos % Type
JPP-62 *161502118-0062*	plant office #1 - carpet mastic	Yellow Non-Fibrous Homogeneous		100% Non-fibrous (other)	**None Detected**
JPP-63 *161502118-0063*	office #1 rr - plaster ceiling	Gray Non-Fibrous Homogeneous		20% Quartz 80% Non-fibrous (other)	**None Detected**
			Inseparable paint / coating layer included in analysis		
JPP-64 *161502118-0064*	office #1 rr - plaster ceiling	Gray Non-Fibrous Homogeneous		20% Quartz 80% Non-fibrous (other)	**None Detected**
			Inseparable paint / coating layer included in analysis		
JPP-65 *161502118-0065*	office #1 rr - plaster ceiling	Gray Non-Fibrous Homogeneous		20% Quartz 80% Non-fibrous (other)	**None Detected**
			Inseparable paint / coating layer included in analysis		
JPP-66 *161502118-0066*	plant office #2 - 2x4' ct	Gray/White Fibrous Homogeneous	60% Cellulose 20% Min. Wool	15% Perlite 5% Non-fibrous (other)	**None Detected**
JPP-67-Floor Tile *161502118-0067*	office #2 rr - 12"x12" ft/m	White Non-Fibrous Homogeneous		100% Non-fibrous (other)	**None Detected**
JPP-67-Mastic *161502118-0067A*	office #2 rr - 12"x12" ft/m	Yellow Non-Fibrous Homogeneous		100% Non-fibrous (other)	**None Detected**
JPP-68-Cove Base *161502118-0068*	office #2 rr - vcb/m	Gray Non-Fibrous Homogeneous		100% Non-fibrous (other)	**None Detected**

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JPP-68-Mastic *161502118-0068A*	office #2 rr - vcb/m	Tan Non-Fibrous Homogeneous			100%	Non-fibrous (other)		**None Detected**
JPP-69 *161502118-0069*	plant bsmt - pipe coating							**Stop Positive (Not Analyzed)**
JPP-70 *161502118-0070*	plant bsmt - pipe ins	Gray Fibrous Homogeneous	80%	Min. Wool	10%	Non-fibrous (other)	**10%**	**Chrysotile**
JPP-71 *161502118-0071*	plant 1st fl - pipe ins	Pink Non-Fibrous Homogeneous			100%	Non-fibrous (other)		**None Detected**
JPP-72 *161502118-0072*	plant 1st fl - pipe ins	White Fibrous Homogeneous	10%	Synthetic	90%	Non-fibrous (other)		**None Detected**
JPP-73 *161502118-0073*	plant 1st fl - pipe ins	White Fibrous Homogeneous	99%	Glass	1%	Non-fibrous (other)		**None Detected**
JPP-74 *161502118-0074*	plant 1st fl - pipe compound	Gray/Silver Non-Fibrous Homogeneous			98%	Non-fibrous (other)	**2%**	**Chrysotile**
JPP-75 *161502118-0075*	feed dump area - pipe ins	White Fibrous Homogeneous	10%	Synthetic	90%	Non-fibrous (other)		**None Detected**
JPP-76 *161502118-0076*	feed dump area - 2" gasket	Gray/White Fibrous Homogeneous	60%	Glass	40%	Non-fibrous (other)		**None Detected**

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Sample	**Description**	**Appearance**	**%**	**Fibrous**	**%**	**Non-Fibrous**	**%**	**Type**
JPP-77 *161502118-0077*	feed dump area - 1" gasket							**Stop Positive (Not Analyzed)**
JPP-78 *161502118-0078*	plant 2nd fl - wall coating							**Stop Positive (Not Analyzed)**
JPP-79 *161502118-0079*	plant 2nd fl - wdw caulk	White Non-Fibrous Homogeneous			100%	Non-fibrous (other)		**None Detected**
			Inseparable paint / coating layer included in analysis The sample group is not homogeneous					
JPP-80 *161502118-0080*	plant 2nd fl - pipe ins	White Fibrous Homogeneous	30%	Cellulose	70%	Non-fibrous (other)		**None Detected**
JPP-81 *161502118-0081*	plant 2nd fl - pipe ins	Pink Non-Fibrous Homogeneous			100%	Non-fibrous (other)		**None Detected**
JPP-82 *161502118-0082*	plant 2nd fl - refractory	Gray/Red Non-Fibrous Homogeneous			10% 90%	Quartz Non-fibrous (other)		**None Detected**
JPP-83 *161502118-0083*	plant 2nd fl - fire brick	Tan Non-Fibrous Homogeneous			10% 90%	Quartz Non-fibrous (other)		**None Detected**
JPP-84 *161502118-0084*	2nd fl rr - 9x9" ft	Green Non-Fibrous Homogeneous			98%	Non-fibrous (other)	**2%**	**Chrysotile**

Analyst(s)

Craig Nixon (61) *Ross Matlock (34)*
Jadda Moffett (18)

Richard Harding, Laboratory Manager
or other approved signatory

Initial report from 02/17/2015 08:36:36

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EMSL Order:	161502118
CustomerID:	ATAS63
CustomerPO:	170EM00003
ProjectID:	

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Analysis Date:	2/17/2015
Collected:	2/9/2015

Project: **JASPER POWER PLANT / 170EM00003**

Test Report: Asbestos Analysis of Bulk Materials via EPA 600/R-93/116 Method using Polarized Light Microscopy

Sample	Description	Appearance	Non-Asbestos % Fibrous	Non-Asbestos % Non-Fibrous	Asbestos % Type
JPP-85-Cove Base *161502118-0085*	2nd fl rr - cb/m	Black Non-Fibrous Homogeneous		100% Non-fibrous (other)	**None Detected**
JPP-85-Mastic *161502118-0085A*	2nd fl rr - cb/m	Brown Non-Fibrous Homogeneous		100% Non-fibrous (other)	**None Detected**
JPP-86 *161502118-0086*	operators area - 2x4' ct	Gray/White Fibrous Homogeneous	50% Cellulose 30% Min. Wool	15% Perlite 5% Non-fibrous (other)	**None Detected**
JPP-87 *161502118-0087*	operators area - insulation	Gray Fibrous Homogeneous	20% Cellulose	20% Non-fibrous (other)	**60% Chrysotile**
JPP-88 *161502118-0088*	office #4 - 1/8" gasket rings	Gray Fibrous Homogeneous	20% Cellulose	20% Non-fibrous (other)	**60% Chrysotile**
JPP-89 *161502118-0089*	office #4 - 1" gasket rings	Black Non-Fibrous Homogeneous	20% Cellulose	20% Non-fibrous (other)	**60% Chrysotile**
JPP-90 *161502118-0090*	plant 2nd fl - 7/16" mech packing	Black Fibrous Homogeneous	98% Fibrous (other)	2% Non-fibrous (other)	**None Detected**
JPP-91 *161502118-0091*	fly ash collector - insulation	White Non-Fibrous Homogeneous	20% Glass 10% Cellulose	70% Non-fibrous (other)	**None Detected**

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Test Report: Asbestos Analysis of Bulk Materials via EPA 600/R-93/116 Method using Polarized Light Microscopy

			Non-Asbestos				Asbestos
Sample	**Description**	**Appearance**	**%**	**Fibrous**	**%**	**Non-Fibrous**	**% Type**
JPP-92 *161502118-0092*	plant 3rd fl - refractory	Beige Non-Fibrous Homogeneous			10% 90%	Quartz Non-fibrous (other)	**None Detected**
JPP-93 *161502118-0093*	plant 3rd fl - refractory	Red Non-Fibrous Homogeneous			10% 90%	Quartz Non-fibrous (other)	**None Detected**
JPP-94 *161502118-0094*	plant 3rd fl - 12x12" fire stone	Tan Non-Fibrous Homogeneous			10% 90%	Quartz Non-fibrous (other)	**None Detected**
JPP-95 *161502118-0095*	plant 3rd fl - 12x18" fire stone	Gray Non-Fibrous Homogeneous			10% 90%	Quartz Non-fibrous (other)	**None Detected**
JPP-96 *161502118-0096*	plant 3rd fl - refractory dust	Gray Non-Fibrous Homogeneous	<1%	Cellulose	20% 80%	Quartz Non-fibrous (other)	**None Detected**
JPP-97 *161502118-0097*	plant 3rd fl - fire brick	Red Non-Fibrous Homogeneous			10% 90%	Quartz Non-fibrous (other)	**None Detected**
JPP-98 *161502118-0098*	plant 3rd fl - pipe ins	White Fibrous Homogeneous	98%	Cellulose	2%	Non-fibrous (other)	**None Detected**
JPP-99 *161502118-0099*	plant 3rd fl - wdw caulk	Gray/White Non-Fibrous Homogeneous			100%	Non-fibrous (other)	**None Detected**

The sample group is not homogeneous

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Test Report: Asbestos Analysis of Bulk Materials via EPA 600/R-93/116 Method using Polarized Light Microscopy

			Non-Asbestos				Asbestos	
Sample	**Description**	**Appearance**	**%**	**Fibrous**	**%**	**Non-Fibrous**	**%**	**Type**
JPP-100 *161502118-0100*	plant 4th fl - wdw caulk	Gray Non-Fibrous Homogeneous			100%	Non-fibrous (other)	**<1%**	**Chrysotile**
		The sample group is not homogeneous						
JPP-101 *161502118-0101*	plant 4th fl - wall coating						**Stop Positive (Not Analyzed)**	
JPP-102 *161502118-0102*	plant 4th fl - 3" gasket rings	Black Fibrous Homogeneous	50% 45%	Synthetic Glass	5%	Non-fibrous (other)	**None Detected**	
JPP-103 *161502118-0103*	plant 4th fl - pipe ins	White Non-Fibrous Homogeneous	20%	Glass	80%	Non-fibrous (other)	**None Detected**	
JPP-104 *161502118-0104*	4th fl economizer - tank ins	White Non-Fibrous Homogeneous	10%	Glass	90%	Non-fibrous (other)	**None Detected**	
JPP-105 *161502118-0105*	4th fl boiler - pipe ins	White Non-Fibrous Homogeneous	40%	Cellulose	60%	Non-fibrous (other)	**None Detected**	
JPP-106 *161502118-0106*	plant 5th fl coal rm - wdw caulk	Black Non-Fibrous Homogeneous			100%	Non-fibrous (other)	**<1%**	**Chrysotile**
		The sample group is not homogeneous						
JPP-107 *161502118-0107*	plant 5th fl coal rm - pipe sealant	Black Non-Fibrous Homogeneous			100%	Non-fibrous (other)	**None Detected**	

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Project: **JASPER POWER PLANT / 170EM00003**

Test Report: Asbestos Analysis of Bulk Materials via EPA 600/R-93/116 Method using Polarized Light Microscopy

Sample	Description	Appearance	Non-Asbestos % Fibrous	Non-Asbestos % Non-Fibrous	Asbestos % Type
JPP-108 *161502118-0108*	e roof 4th fl - roof sealant	Gray/Black Non-Fibrous Homogeneous		100% Non-fibrous (other)	**None Detected**
JPP-109 *161502118-0109*	e roof 5th fl - refractory	Rust Non-Fibrous Homogeneous		20% Quartz 80% Non-fibrous (other)	**None Detected**
JPP-110 *161502118-0110*	e roof 5th fl - roof caulk	White Non-Fibrous Homogeneous		100% Non-fibrous (other)	**None Detected**
JPP-111 *161502118-0111*	e roof 5th fl - roof caulk	Black Non-Fibrous Homogeneous		100% Non-fibrous (other)	**None Detected**
JPP-112 *161502118-0112*	w roof 4th fl - roof sealant	Black Non-Fibrous Homogeneous		100% Non-fibrous (other)	**None Detected**
JPP-113 *161502118-0113*	plant exterior - pipe coating	Black Non-Fibrous Homogeneous		100% Non-fibrous (other)	**None Detected**
JPP-114 *161502118-0114*	plant exterior - pipe sealant	Black Non-Fibrous Homogeneous		100% Non-fibrous (other)	**None Detected**

Analyst(s)

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Jadda Moffett (18)

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Received:	02/12/15 9:10 AM
Analysis Date:	2/24/2015
Collected:	2/9/2015

Project: **JASPER POWER PLANT / 170EM00003**

Test Report: Asbestos Analysis of Bulk Materials via EPA 600/R-93/116 Method using Polarized Light Microscopy. Quantitation using 400 Point Count Procedure

			Non-Asbestos		Asbestos	
Sample	**Description**	**Appearance**	**% Fibrous**	**% Non-Fibrous**	**% Type**	
JPP-01 *161502118-0001*	storage bldg main area - wall coating	White/Black/Green Non-Fibrous Homogeneous		96.25% Non-fibrous (other)	**3.75%**	**Chrysotile**
JPP-23 *161502118-0023*	maint bldg ext - wdw caulk	Tan/White Non-Fibrous Homogeneous		99.50% Non-fibrous (other)	**0.50%**	**Chrysotile**
JPP-24 *161502118-0024*	maint bldg ext - wdw caulk	Gray/Tan Non-Fibrous Homogeneous		99.75% Non-fibrous (other)	**0.25%**	**Chrysotile**
JPP-52 *161502118-0052*	pump house ext - wdw caulk	White Non-Fibrous Homogeneous		100.00% Non-fibrous (other)	**<0.25%**	**Chrysotile**
JPP-53 *161502118-0053*	pump house ext - wdw caulk	White Non-Fibrous Homogeneous		99.75% Non-fibrous (other)	**0.25%**	**Chrysotile**
JPP-54 *161502118-0054*	pump house ext - wdw caulk	White Non-Fibrous Homogeneous		99.75% Non-fibrous (other)	**0.25%**	**Chrysotile**
JPP-74 *161502118-0074*	plant 1st fl - pipe compound	Gray/Silver Non-Fibrous Homogeneous		98.25% Non-fibrous (other)	**1.75%**	**Chrysotile**

Analyst(s)

Ross Matlock (12)

Richard Harding, Laboratory Manager
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Initial report from 02/25/2015 06:12:28

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Project: **JASPER POWER PLANT / 170EM00003**

Test Report: Asbestos Analysis of Bulk Materials via EPA 600/R-93/116 Method using Polarized Light Microscopy. Quantitation using 400 Point Count Procedure

			Non-Asbestos		Asbestos	
Sample	**Description**	**Appearance**	**% Fibrous**	**% Non-Fibrous**	**% Type**	
JPP-78 *161502118-0078*	plant 2nd fl - wall coating	Black/Green Non-Fibrous Homogeneous		98.00% Non-fibrous (other)	**2.00%**	**Chrysotile**
JPP-84 *161502118-0084*	2nd fl rr - 9x9" ft	Green Non-Fibrous Homogeneous		97.50% Non-fibrous (other)	**2.50%**	**Chrysotile**
JPP-100 *161502118-0100*	plant 4th fl - wdw caulk	Gray Non-Fibrous Homogeneous		99.50% Non-fibrous (other)	**0.50%**	**Chrysotile**
JPP-101 *161502118-0101*	plant 4th fl - wall coating	Black/Green Non-Fibrous Homogeneous		95.50% Non-fibrous (other)	**4.50%**	**Chrysotile**
JPP-106 *161502118-0106*	plant 5th fl coal rm - wdw caulk	Black Non-Fibrous Homogeneous		99.75% Non-fibrous (other)	**0.25%**	**Chrysotile**

Analyst(s)

Ross Matlock (12)

Richard Harding, Laboratory Manager
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Initial report from 02/25/2015 06:12:28

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Received: 03/12/15 5:33 PM
Analysis Date: 3/16/2015
Collected: 3/6/2015

Project: **JASPER POWER PLANT**

Test Report: Asbestos Analysis of Bulk Materials via EPA 600/R-93/116 Method using Polarized Light Microscopy

Sample	Description	Appearance	Non-Asbestos % Fibrous	Non-Asbestos % Non-Fibrous	Asbestos % Type
JPP-115 *161503641-0001*	bsmt city water line - joint caulk	Gray/Clear Non-Fibrous Homogeneous		100% Non-fibrous (other)	**None Detected**
JPP-116 *161503641-0002*	w roof 4th fl - wall coating	Brown/Gray Fibrous Homogeneous		30% Non-fibrous (other)	**70% Chrysotile**
		Inseparable paint / coating layer included in analysis			
JPP-117 *161503641-0003*	bsmt 4th extr lp heater - wht block	White/Blue Fibrous Homogeneous	10% Synthetic	90% Non-fibrous (other)	**None Detected**
JPP-118 *161503641-0004*	bsmt 4th extr lp heater - wht fiber ins	White Fibrous Homogeneous	99% Glass	1% Non-fibrous (other)	**None Detected**
JPP-119 *161503641-0005*	bsmt 4th extr lp heater - block ins	Tan Fibrous Homogeneous	20% Cellulose 10% Glass	70% Non-fibrous (other)	**None Detected**
JPP-120 *161503641-0006*	condensate ret tank - hard pack	White Fibrous Homogeneous	60% Min. Wool	20% Non-fibrous (other)	**20% Chrysotile**
JPP-121 *161503641-0007*	2" line bot of air injector - hard pack	Gray Fibrous Homogeneous	60% Cellulose	20% Non-fibrous (other)	**20% Chrysotile**
JPP-122 *161503641-0008*	hogger vacuum line - ins tape	Brown Fibrous Homogeneous	98% Cellulose	2% Non-fibrous (other)	**None Detected**

Analyst(s)
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Richard Harding, Laboratory Manager
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Initial report from 03/16/2015 11:06:13

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Project: **JASPER POWER PLANT**

Test Report: Asbestos Analysis of Bulk Materials via EPA 600/R-93/116 Method using Polarized Light Microscopy

			Non-Asbestos				Asbestos	
Sample	**Description**	**Appearance**	**%**	**Fibrous**	**%**	**Non-Fibrous**	**%**	**Type**
JPP-123 *161503641-0009*	elec feed pump lower lvl - hard pack fitting	Gray Fibrous Homogeneous	60%	Min. Wool	20%	Non-fibrous (other)	**20%**	**Chrysotile**
JPP-124 *161503641-0010*	steam feed pump lower lvl - hard pack fitting	Brown/Black Fibrous Homogeneous	50%	Min. Wool	30%	Non-fibrous (other)	**20%**	**Chrysotile**
JPP-125 *161503641-0011*	elec feed pump lower lvl - ins wrap	Gray/Tan Fibrous Homogeneous	98%	Cellulose	2%	Non-fibrous (other)		**None Detected**
JPP-126 *161503641-0012*	rear lower header - block ins	White Non-Fibrous Homogeneous			100%	Non-fibrous (other)		**None Detected**
JPP-127 *161503641-0013*	n lower boiler header - block ins	White Fibrous Homogeneous	30%	Cellulose	70%	Non-fibrous (other)		**None Detected**
JPP-128 *161503641-0014*	front header - block ins	White Fibrous Homogeneous	30%	Cellulose	70%	Non-fibrous (other)		**None Detected**
JPP-129 *161503641-0015*	hp ext steam - joint caulk	Brown/Gray Non-Fibrous Homogeneous			100%	Non-fibrous (other)		**None Detected**
		Inseparable paint / coating layer included in analysis						
JPP-130 *161503641-0016*	emergency feed water line - hard pack fitting	Gray Fibrous Homogeneous	60%	Min. Wool	20%	Non-fibrous (other)	**20%**	**Chrysotile**

Analyst(s)
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Richard Harding, Laboratory Manager
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Initial report from 03/16/2015 11:06:13

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Project: **JASPER POWER PLANT**

Test Report: Asbestos Analysis of Bulk Materials via EPA 600/R-93/116 Method using Polarized Light Microscopy

			Non-Asbestos				Asbestos	
Sample	**Description**	**Appearance**	**%**	**Fibrous**	**%**	**Non-Fibrous**	**%**	**Type**
JPP-131 *161503641-0017*	heating steam line - hard pack fitting	White Fibrous Homogeneous	60%	Min. Wool	20%	Non-fibrous (other)	**20%**	**Chrysotile**
JPP-132 *161503641-0018*	primary fly ash ret - block ins	White Fibrous Homogeneous	30%	Cellulose	70%	Non-fibrous (other)		**None Detected**
JPP-133 *161503641-0019*	mud drum - block ins	White Non-Fibrous Homogeneous	5%	Cellulose	95%	Non-fibrous (other)		**None Detected**
JPP-134 *161503641-0020*	mud drum - mud	White Fibrous Homogeneous	40% 10%	Min. Wool Cellulose	50%	Non-fibrous (other)		**None Detected**
JPP-135 *161503641-0021*	da tank ctl valve assembly - joint caulk	Gray/Silver Non-Fibrous Homogeneous			98%	Non-fibrous (other)	**2%**	**Chrysotile**
JPP-136 *161503641-0022*	steam drum - mud	White Non-Fibrous Homogeneous	60%	Min. Wool	40%	Non-fibrous (other)		**None Detected**
JPP-137 *161503641-0023*	main steam line - lag cloth	Gray Fibrous Homogeneous	90%	Glass	10%	Non-fibrous (other)		**None Detected**
JPP-138 *161503641-0024*	coal room - stucco	Gray Non-Fibrous Homogeneous			20% 80%	Quartz Non-fibrous (other)	**<1%**	**Chrysotile**

Analyst(s)
Jadda Moffett (24)

Richard Harding, Laboratory Manager
or other approved signatory

Initial report from 03/16/2015 11:06:13

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Project: **JASPER POWER PLANT**

Test Report: Asbestos Analysis of Bulk Materials via EPA 600/R-93/116 Method using Polarized Light Microscopy. Quantitation using 400 Point Count Procedure

			Non-Asbestos		Asbestos
Sample	**Description**	**Appearance**	**% Fibrous**	**% Non-Fibrous**	**% Type**
JPP-135 *161503641-0021*	da tank ctl valve assembly - joint caulk	Gray/Silver Non-Fibrous Homogeneous		98.50% Non-fibrous (other)	**1.50% Chrysotile**
JPP-138 *161503641-0024*	coal room - stucco	Gray Non-Fibrous Homogeneous		99.50% Non-fibrous (other)	**0.50% Chrysotile**

Analyst(s)

Ross Matlock (2)

Richard Harding, Laboratory Manager
or other approved signatory

Disclaimer:Some samples may contain asbestos fibers present in dimensions below PLM resolution limits. The limit of detection as stated in the method is 0.25%. EMSL Analytical Inc suggests that samples reported as <0.25% or none detected undergo additional analysis via TEM. The above test report relates only to the items tested. This report may not be reproduced, except in full, without written approval of EMSL Analytical Inc. This test report must not be used by the client to claim product endorsement by NVLAP or any agency of the United States Government. EMSL Analytical Inc., bears no responsibility for sample collection activities, analytical method limitations, or the accuracy of results when requested to separate layered samples. EMSL Analytical Inc., liability is limited to the cost of sample analysis.The test results contained within this report meet the requirements of NELAC unless otherwise noted. Samples received in good condition unless otherwise noted. Unless requested by the client, building materials manufactured with multiple layers (i.e. linoleum, wallboard, etc.) are reported as a single sample.

Samples analyzed by EMSL Analytical, Inc. Indianapolis, IN

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Chain of Custody

EMSL Order Number (Lab Use Only): 161502118

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Company: Cardno ATC		**EMSL Bill to:** ☐ Same ☐ Different If Bill to is Different note Instructions in Comments** Third Party Billing requires written authorization from third party	
Street: 255 South Garvin Street, F			
City: Evansville	**State/Province:** IN	**Zip/Postal Code:**	**Country:**
Report To (Name): brian.kleeman@cardno.com		**Fax #:**	
Telephone #: (812) 457-0043		**Email Address:**	
Project Name/Number: Jasper Power Plant / 170EM00003			
Please Provide Results: ☐ Fax ☒ Email	**Purchase Order:**	**U.S. State Samples Taken:** IN	

Turnaround Time (TAT) Options* - Please Check

☐ 3 Hour ☐ 6 Hour ☐ 24 Hour ☐ 48 Hour ☒ 72 Hour ☐ 96 Hour ☐ 1 Week ☐ 2 Week

*For RUSH TAT's Please Call Ahead to Confirm Lab Hours and Availability. Not all TAT options are valid for every test.
Materials Science and IAQ TATs are in Business Days rather than Hours (i.e. 24 Hour = End of Next Business Day)

Asbestos

PCM - Air
☐ NIOSH 7400
☐ w/ 8hr. TWA

TEM - Air ☐ 4-4.5hr TAT (AHERA ONLY)
☐ AHERA 40 CFR, Part 763
☐ NIOSH 7402
☐ EPA Level II
☐ ISO 10312

TEM - Water
Fibers >10µm ☐ Waste ☐ Drinking
All Fiber Sizes ☐ Waste ☐ Drinking

PLM - Bulk
☒ PLM EPA 600/R-93/116
☐ PLM EPA NOB (<1%)
☐ NYS 198.1 (friable-NY)
☐ NYS 198.6 (non-friable-NY)
Point Count ☐ 400 (<0.25%) ☐ 1000 (<0.1%)
Point Count w/ Gravimetric
☐ 400 (<0.25%) ☐ 1000 (<0.1%)

TEM - Dust
☐ Microvac – ASTM D 5755
☐ Wipe-ASTM D6480

TEM - Bulk
☐ TEM EPA NOB
☐ NYS NOB 198.4 (non-friable-NY)
☐ Chatfield SOP

Soil/Rock/Vermiculite
☐ PLM CARB 435 – A (0.25% sensitivity)
☐ PLM CARB 435 – B (0.1% sensitivity)
☐ TEM CARB 435 – B (0.1% sensitivity)
☐ EPA Reg. 1 Screening Protocol (Qualitative)
Other:

Lead (Pb)

Flame Atomic Absorption
☐ Chips SW846-7000B or AOAC 974.02
☐ Soil SW846-7000B/7420
☐ Air NIOSH 7082
☐ Wastewater SM3111B or SW846-7000B/7420
☐ ASTM Wipe SW846-7000B/7420
☐ non ASTM Wipe SW846-7000B/7420
☐ TCLP SW846-1311/7420/SM 3111B

ICP
☐ Air NIOSH 7300 Modified
☐ non ASTM Wipe SW846-6010B or C
☐ ASTM Wipe SW846-6010B or C
☐ Soil SW846-6010 B or C
☐ Waste Water SW846-6010B or C
☐ TCLP SW846-6010B or C

Graphite Furnace Atomic Absorption
☐ Soil SW846-7421 ☐ Wastewater EPA 200.9
☐ Air NIOSH 7105 ☐ Drinking Water EPA 200.9

Other: ☐

Microbiology

Wipe and Bulk Samples
☐ Mold & Fungi – Direct Examination
☐ Mold & Fungi Culture (Genus Only)
☐ Mold & Fungi Culture (Genus & Species)
☐ Bacterial Count & ID (Up to Three Types)
☐ Bacterial Count & ID (Up to Five Types)
☐ MRSA
☐ *Pseudomonas aeruginosa*

Water Samples
☐ Total Coliform & E.coli (P/A)
☐ Fecal Coliform (SM 9222D)
☐ Sewage Screen
☐ Heterotrophic Plate Count (SM 9215)

Air Samples
☐ Mold & Fungi (Spore Trap)
☐ Mold & Fungi Culture (Genus Only)
☐ Mold & Fungi (Genus & Species)
☐ Bacterial Culture & ID (Up to Three Types)
☐ Bacterial Culture & ID (Up to Five Types)
☐ Endotoxin Testing

Real Time Q-PCR (See Analytical Guide for Code)
Code:

Legionella
☐ Level 1 ☐ Level 2 ☐ Level 3 ☐ Level 4

Other: ☐

Materials Science

☐ Common Particle ID (large particles)
☐ Fine Particle ID (environmental dust)
☐ Basic Material ID (solids)
☐ Advanced Material ID
☐ Physical Testing (Tensile, Compression)
☐ Combustion-by-products (soot, char, etc.)
☐ X-Ray Fluorescence (elem. analysis)
☐ X-Ray Diffraction (Crystalline Part.)
☐ MMVF's (Fibrous glass, RCF's)
☐ Particle Size (sieve/microscopy/laser)
☐ Combustible Dust
☐ Petrographic Examination
Other: ☐

IAQ

Nuisance Dust NIOSH ☐ 0500 ☐ 0600
Airborne Dust ☐ PM10 ☐ TSP
Silica Analysis: ☐ All Species
Silica Analysis – Single Species
☐ Alpha Quartz ☐ Cristobalite ☐ Tridymite
☐ HVAC Efficiency
☐ Carbon Black
☐ Airborne Oil Mist
Radon Testing: Call for Kit and COC
Other: ☐

Comments/Special Instructions: * Stop First Positive

Client Sample #'s	JPP-01 to JPP-114	**Total # of Samples:**	114
Relinquished (Client):	**Date:** 2/11/15	**Time:**	1700
Received (Lab):	**Date:** 2/12/15	**Time:**	910

Analysis Completed in Accordance with EMSL's Terms and Conditions located in the Analytical Price Guide
Controlled Document-OneChain-R2-1/12/2010

OrderID: 161502118

2118

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Shaping the Future

ASBESTOS SAMPLE CHAIN OF CUSTODY

Project No.: 170EM00003
Site: Jasper Power Plant
Address: 1163 East 15th Street, Jasper, IN

Date of Sampling: 2/9/15

SAMPLED MATERIAL DESCRIPTION	SAMPLE LOCATION	FLOOR & AREA NO.	BULK SAMPLE NO.	HA NO.	LAB RESULTS
Green Wall Coating	Storage Building - Main Area	1 - 1	JPP-01	1	
9" White Pipe Insulation	"	1 - 1	-02	2	
6" White Pipe Insulation	"	1 - 1	-03	3	
2" White Pipe Insulation	"	1 - 1	-04	4	
9" Pink Pipe Insulation	"	1 - 1	-05	5	
6" Blue Pipe Insulation	"	1 - 1	-06	6	
2" Blue Pipe Insulation	"	1 - 1	-07	7	
Gray Refractory	"	1 - 1	-08	8	
Green Compressed Gasket Material	"	1 - 1	-09	9	
Gray Compressed Gasket Material	"	1 - 1	-10	10	
Black Refractory	"	1 - 1	-11	11	
White Insulation Brick	"	1 - 1	-12	12	
Tan Fire Brick	"	1 - 1	-13	13	
Gray Cement Blocks	"	1 - 1	-14	14	
Gray Refractory	"	1 - 1	-15	15	

Samples Collected By: _____ Accreditation No. _____
Samples Delivered By: _____ Expiration Date: _____
Received at Lab By: _____

2118

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ASBESTOS SAMPLE CHAIN OF CUSTODY

Project No.:
Site: Jasper Power Plant
Address:

Date of Sampling: 2/9/15

SAMPLED MATERIAL DESCRIPTION	SAMPLE LOCATION	FLOOR & AREA NO.	BULK SAMPLE NO.	HA NO.	LAB RESULTS
Gray Insulation Panels	Storage Building - Main Area	1-1	JPP-16	16	
White Insulation Panels	"	1-1	-17	17	
Gray Wall Sealant	Storage Building - Exterior	E-1	-18	18	
White Window Caulk	"	E-1	-19	19	
"	"	E-1	-20	19	
"	"	E-1	-21	19	
"	Maintenance Building Exterior	E-2	-22	20	
"	"	E-2	-23	20	
"	"	E-2	-24	20	
Black Asphalt Roofing Material	Garage	1-3	-25	21	
"	Garage	1-3	-26	21	
"	"	E-2	-27	21	
Brown Roof Insulation	Garage	1-3	-28	22	
1/2" Gray Mechanical Packing	Garage	1-3	-29	23	
7/16" Gray Mechanical Packing	"	1-3	-30	24	

Samples Collected By: _____ Accreditation No. _____
Samples Delivered By: _____ Expiration Date: _____
Received at Lab By: _____

2118

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Shaping the Future

ASBESTOS SAMPLE CHAIN OF CUSTODY

Project No. :
Site: Jasper Power-Plant
Address:

Date of Sampling: 2/9/15

SAMPLED MATERIAL DESCRIPTION	SAMPLE LOCATION	FLOOR & AREA NO.	BULK SAMPLE NO.	HA NO.	LAB RESULTS
5/8" Gray Mechanical Packing	Garage	1-3	JPP-31	25	
5/16" "	"	1-3	-32	26	
3/16" "	"	1-3	-33	27	
1/8" "	"	1-3	-34	28	
3/8" Sepco Gray Mechanical Packing	"	1-3	-35	29	
1/4" "	"	1-3	-36	30	
2" White Gaskets	"	1-3	-37	31	
1" Yellow Gaskets	"	1-3	-38	32	
3" Brown Gaskets	"	1-3	-39	33	
1" White Gaskets	"	1-3	-40	34	
1" White Gasket Rings	Maintenance Building - Mezzanine	M-1	-41	35	
1/2" White Gaskets	"	M-1	-42	36	
1" White Rope Insulation	"	M-1	-43	37	
1" Gray Rope Insulation	"	M-1	-44	38	
1" Gray Insulation Panels	"	M-1	-45	39	

Samples Collected By: _____ Accreditation No. _____
Samples Delivered By: _____ Expiration Date: _____
Received at Lab By: _____

02118

Cardno ATC
Shaping the Future

ASBESTOS SAMPLE CHAIN OF CUSTODY

Project No.:
Site: Jasper Power Plant
Address:

Date of Sampling: 2/9/15

SAMPLED MATERIAL DESCRIPTION	SAMPLE LOCATION	FLOOR & AREA NO.	BULK SAMPLE NO.	HA NO.	LAB RESULTS
3/8" White Mechanical Packing	Maintenance Building Mezzanine	M-1	JPP-46	40	
1/4" "	"	M-1	-47	41	
White Insulation Cloth	"	M-1	-48	42	
Drywall Walls	Break Room	1-5	-49	43	
"	"	1-5	-50	43	
"	"	1-5	-51	43	
White Window Caulk	Pump House Exterior	E-3	-52	44	
"	"	E-3	-53	44	
"	"	E-3	-54	44	
White Roof Caulk	Cooling Tower Roof	E-4	-55	45	
"	"	E-4	-56	46	
"	"	E-4	-57	45	
White Paneling	"	E-4	-58	46	
Gray Pipe Coating	"	E-4	-59	47	
Black Pipe Coating	Cooling Tower Exterior	E-4	-60	48	

Samples Collected By: _____ Accreditation No. _____
Samples Delivered By: _____ Expiration Date: _____
Received at Lab By: _____

OrderID: 161502118

2118

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Shaping the Future

ASBESTOS SAMPLE CHAIN OF CUSTODY

Project No.:
Site: Jasper Power Plant
Address:

Date of Sampling: 2/9-2/10/15

SAMPLED MATERIAL DESCRIPTION	SAMPLE LOCATION	FLOOR & AREA NO.	BULK SAMPLE NO.	HA NO.	LAB RESULTS
Black Pipe Coating	Cooling Tower Exterior	E-4	JPP-61	49	
Yellow Carpet Mastic	Plant Office No. 1	1-9	-62	50	
Office No. 1 Restroom ↔ White Plaster Ceiling		1-10	-63	51	
"	"	1-10	-64	51	
"	"	1-10	-65	51	
2x4' white wormhole / Pinhole Ceiling Tile	Plant Office No. 2	1-12	-66	52	
12x12" white and Floor Tile mastic	Office No. 2 Restroom	1-13	-67	53	
Gray Vinyl Cove Base and Mastic	"	1-13	-68	54	
Black Pipe Coating	Plant Basement	B-1	-69	48	
White Pipe Insulation	"	B-1	-70	~~55~~	
Pink Pipe Insulation	Plant First Floor	1-15	-71	56	
White Pipe Insulation	"	1-15	-72	57	
"	"	1-15	-73	BH ~~58~~	57
White Pipe Compound	"	1-15	-74	589	
White Pipe Insulation	Feed Pump Area	1-16	-75	57	

Samples Collected By:
Samples Delivered By:
Received at Lab By:

Accreditation No.
Expiration Date:

2118

Cardno ATC
Shaping the Future

ASBESTOS SAMPLE CHAIN OF CUSTODY

Project No. :
Site: Jasper Power Plant
Address:

Date of Sampling: 2/10/15

SAMPLED MATERIAL DESCRIPTION	SAMPLE LOCATION	FLOOR & AREA NO.	BULK SAMPLE NO.	HA NO.	LAB RESULTS
2" white Gaskets	Feed Pump Area	1-16	JPP-76	31	
1" white Gaskets	"	1-16	-77	34	
Green Wall Coating	Plant Second Floor	2-1	-78	1	
White Window Caulk	"	2-1	-79	60	
White Pipe Insulation	"	2-1	-80	61	
Pink Pipe Insulation	"	2-1	-81	62	
Tan Refractory	"	2-1	-82	63	
Red Fire Brick	"	2-1	-83	64	
9"x9" Green Floor Tile	Second Floor Restroom	2-2	-84	65	
Black Cove Base and Mastic	"	2-2	-85	66	
2x4' white Pinhole Ceiling Tile	Operator's Area	2-4	-86	67	
Gray Insulation	"	2-4	-87	68	
1/8" Black Gasket Rings	Office No. 4	2-6	-88	69	
1" Black Gasket Rings	"	2-6	-89	70	
7/16" Sepco Black Mechanical Packing	Plant Second Floor	2-1	-90	71	

Samples Collected By: _____ Accreditation No. _____
Samples Delivered By: _____ Expiration Date: _____
Received at Lab By: _____

2118

Cardno ATC
Shaping the Future

ASBESTOS SAMPLE CHAIN OF CUSTODY

Project No. :
Site: Jasper Power Plant
Address:

Date of Sampling: 2/10/15

SAMPLED MATERIAL DESCRIPTION	SAMPLE LOCATION	FLOOR & AREA NO.	BULK SAMPLE NO.	HA NO.	LAB RESULTS
White Insulation	Fly Ash Collector	2-8	JPP-91	72	
Yellow Refractory	Plant Third Floor	3-1	-92	73	
Pink Refractory	"	3-1	-93	74	
12x12" Tan Fire Stone	"	3-1	-94	75	
12x18" Tan Fire Stone	"	3-1	-95	76	
Gray Refractory Dust	"	3-1	-96	77	
Red Fire Brick	"	3-1	-97	78	
White Pipe Insulation	"	3-1	-98	79	
White Window Caulk	"	3-1	-99	60	
"	Plant Fourth Floor	4-1	-100	60	
Green Wall Coating	"	4-1	-101	1	
3" White Gasket Rings	"	4-1	-102	80	
White Pipe Insulation	"	4-1	-103	81	
Tan Tank Insulation	Fourth Floor Economizer	4-1	-104	82	
Tan Pipe Insulation	Fourth Floor Boiler	4-1	-105	83	

Samples Collected By:
Samples Delivered By:
Received at Lab By:

Accreditation No.
Expiration Date:

2118

Cardno ATC
Shaping the Future

ASBESTOS SAMPLE CHAIN OF CUSTODY

Project No. :
Site: Jasper Power Plant
Address:

Date of Sampling: 2/10/15

SAMPLED MATERIAL DESCRIPTION	SAMPLE LOCATION	FLOOR & AREA NO.	BULK SAMPLE NO.	HA NO.	LAB RESULTS
White Window Caulk	Plant - Fifth Floor Coal Room	5-1	JPP-106	60	
Black Pipe Sealant	"	5-1	-107	84	
Black Roofing Sealant	East Roof Fourth Floor	E-6	-108	85	
Tan Refractory	East Roof Fifth Floor	E-7	-109	86	
White Roof Caulk	"	E-7	-110	87	
Black Roof Caulk	"	E-7	-111	88	
Black Roof Sealant	West Roof Fourth Floor	E-8	-112	85	
Black Pipe Coating	Plant Exterior	E-5	-113	89	
Gray Pipe Sealant	"	E-5	-114	90	
		-			
		-			
		-			
		-			
		-			
		-			

Samples Collected By:
Samples Delivered By:
Received at Lab By:

Accreditation No.
Expiration Date:

OrderID: 161503641

Asbestos Chain of Custody

EMSL Order Number *(Lab Use Only)*:

EMSL ANALYTICAL, INC.

EMSL ANALYTICAL, INC.
2001 E. 52ND STREET
INDIANAPOLIS, IN 46205
PHONE: 317/803 2997
FAX: (317/803-3047

Company: CARDNO

Street: 7888 CENTERPOINT DR

City: INDIANAPOLIS State/Province: IN Zip/Postal Code: 46256 Country: USA

Report To (Name): LAURA TOTTEN

Telephone #: 317 579 4081

EMSL-Bill to: ☐ Same ☐ Different
If Bill to is Different note instructions in Comments**
Third Party Billing requires written authorization from third party

Fax #:

Email Address: LAURA.TOTTEN@CARDNO.COM

Project Name/Number: JASPER POWER PLANT

Please Provide Results: ☐ Fax ☐ Email Purchase Order:

U.S. State Samples Taken:

Turnaround Time (TAT) Options – Please Check

☐ 3 Hour ☐ 6 Hour ☐ 24 Hour ☐ 48 Hour ☒ 72 Hour ☐ 96 Hour ☐ 1 Week ☐ 2 Week

**For TEM Air 3 hours/6 hours, please call ahead to schedule. *There is a premium charge for 3 Hour TEM AHERA or EPA Level II TAT. You will be asked to sign an authorization form for this service. Analysis completed in accordance with EMSL's Terms and Conditions located in the Analytical Price Guide.*

PCM - Air
- ☐ NIOSH 7400
- ☐ w/ OSHA 8hr. TWA

PLM - Bulk (reporting limit)
- ☒ PLM EPA 600/R-93/116 (<1%)
- ☐ PLM EPA NOB (<1%)

Point Count
- ☐ 400 (<0.25%) ☐ 1000 (<0.1%)

Point Count w/Gravimetric
- ☐ 400 (<0.25%) ☐ 1000 (<0.1%)
- ☐ NYS 198.1 (friable in NY)
- ☐ NYS 198.6 NOB (non-friable-NY)
- ☐ NIOSH 9002 (<1%)

TEM – Air ☐ 4-4.5hr TAT (AHERA only)
- ☐ AHERA 40 CFR, Part 763
- ☐ NIOSH 7402
- ☐ EPA Level II
- ☐ ISO 10312

TEM - Bulk
- ☐ TEM EPA NOB
- ☐ NYS NOB 198.4 (non-friable-NY)
- ☐ Chatfield SOP
- ☐ TEM Mass Analysis-EPA 600 sec. 2.5

TEM – Water: EPA 100.2
- Fibers >10µm ☐ Waste ☐ Drinking
- All Fiber Sizes ☐ Waste ☐ Drinking

TEM- Dust
- ☐ Microvac - ASTM D 5755
- ☐ Wipe - ASTM D6480
- ☐ Carpet Sonication (EPA 600/J-93/167)

Soil/Rock/Vermiculite
- ☐ PLM CARB 435 - A (0.25% sensitivity)
- ☐ PLM CARB 435 - B (0.1% sensitivity)
- ☐ TEM CARB 435 - B (0.1% sensitivity)
- ☐ TEM CARB 435 - C (0.01% sensitivity)
- ☐ EPA Protocol (Semi-Quantitative)
- ☐ EPA Protocol (Quantitative)

Other:
- ☐

☐ **Check For Positive Stop – Clearly Identify Homogenous Group**

Samplers Name: Samplers Signature:

Sample #	Sample Description	Volume/Area (Air) HA # (Bulk)	Date/Time Sampled
	SEE COC		

Client Sample # (s): JPP-115 - JPP-138 Total # of Samples: 24

Relinquished (Client): [signature] Date: 3/12/15 Time: 1733

Received (Lab): [signature] Date: 3-12-15 Time: 533

Comments/Special Instructions:

OrderID: 161503641

Cardno ATC
Shaping the Future

ASBESTOS SAMPLE CHAIN OF CUSTODY

Page ___ of ___

Project No.: 170IN1507H
Site:
Address: Jasper Power Plant
Jasper, IN

Date of Sampling: 3/6/15

SAMPLED MATERIAL DESCRIPTION	SAMPLE LOCATION	FLOOR & AREA NO.	BULK SAMPLE NO.	HA NO.	LAB RESULTS
WHITE BLOCK INSULATION	FRONT HEADER	2 - 1	JPP-128	105	
WHITE JOINT CAULK	HP EXTRACTION STEAM	2 - 1	JPP-129	106	
WHITE HARD PACK FITTING	EMERGENCY FEEDWATER LINE	2 - 1	JPP-130	107	
HARD PACK FITTING	HEATING STEAM LINE 1"	2 - 1	JPP-131	108	
TAN BLOCK INSULATION	PRIMARY FLY ASH RETURN	3 - 1	JPP-132	109	
TAN BLOCK INSULATION	MUD DRUM	3 - 1	JPP-133	110	
WHITE MUD	MUD DRUM	3 - 1	JPP-134	110	
GRAY JOINT CAULK	D.A. TANK CONTROL VALVE ASSEMBLY	3 - 1	JPP-135	111	
WHITE MUD	STEAM DRUM	4 - 1	JPP-136	112	
LAG CLOTH	MAIN STEAM LINE	4 - 1	JPP-137	113	
STUCCO	COAL ROOM	5 - 1	JPP-138	PH ~~#4~~	102

Samples Collected By:
Samples Delivered By:
Received at Lab By:

Accreditation No. _____
Expiration Date: _____

OrderID: 161503641

Cardno ATC
Shaping the Future

ASBESTOS SAMPLE CHAIN OF CUSTODY

Project No.: 170IN1507H
Site:
Address: JASPER POWER PLANT
JASPER, IN

Date of Sampling: 3/6/15

SAMPLED MATERIAL DESCRIPTION	SAMPLE LOCATION	FLOOR & AREA NO	BULK SAMPLE NO.	HA NO.	LAB RESULTS
GRAY JOINT CAULK	BASEMENT CITY WATER LINE	B-1	JPP-115	92	
——→	NW CORNER	-			
GRAY WALL COATING (OVER ARCHED SIDING)	WEST ROOF 4TH FL	E-8	JPP-116	93	
		-			
WHITE FIBER INSULATION	BASEMENT 4TH EXTR. L.P. HEATER	B-1	JPP-118	94	
WHITE BLOCK	BASEMENT 4TH EXTR L.P. HEATER	B-1	JPP-117	95	
TAN BLOCK INSULATION	BASEMENT 4TH EXTR L.P. HEATER	B-1	JPP-119	96	
WHITE HARD-PACK	CONDENSATE RETURN TANK	B-1	JPP-120	97	
WHITE HARD-PACK	2" LINE BOTTOM OF AIR INJECTOR (?)	B-1	JPP-121	98	
BROWN INSULATION TAPE	HOGGER VACUUM LINE (2)	1-1	JPP-122	99	
HARD PACK FITTING (BY GREEN VALVE)	ELECTRIC FEED PUMP - LOWER LEVEL	1-1	JPP-123	100	
BROWN HARD PACK FITTING (BY GREEN VALVE)	STEAM FEED PUMP - LOWER LEVEL	1-1	JPP-124	101	
WHITE INSULATION WRAP	ELECTRIC FEED PUMP - LOWER LEVEL	1-1	JPP-125	BM ~~102~~ 58	
WHITE BLOCK INSULATION	REAR LOWER HEADER	2-1	JPP-126	103	
WHITE BLOCK INSULATION	NORTH LOWER BOILER HEADER	2-1	JPP-127	104	

Samples Collected By: Jim Kirby
Samples Delivered By: Jim Kirby
Received at Lab By:

Accreditation No.
Expiration Date: