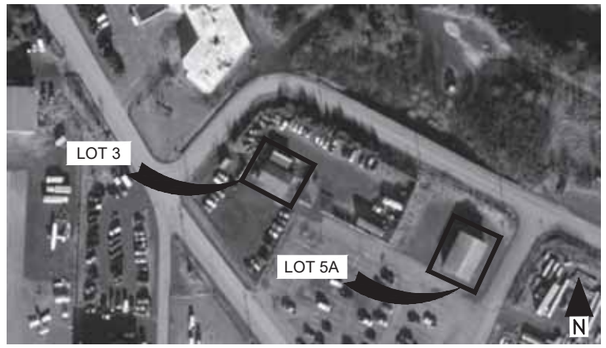
COLD BAY–VICINITY MAP

150 0 150 300
SCALE OF FEET



KODIAK–VICINITY MAP

150 0 150 300
SCALE OF FEET

COLD BAY - ESTIAMTED ACM QUANTITIES			
ACM CATEGORY	DESCRIPTION	LOCATION	QUANTITY
FRIABLE	STACK INSULATION - ASSUMED	RTH HANGAR - USED OIL FURNACE	15 LINEAR FEET
NON-FRIABLE CATEGORY I	GASKET	RTH HANGAR - USED OIL FURNACE	1
NON-FRIABLE CATEGORY II	BROWN MASTIC	ITH HANGAR - SECOND FLOOR	309 LINEAR FEET
	VINYL FLOORING	SO H HANGAR - SECOND FLOOR	780 SQUARE FEET

KODIAK - ESTIAMATED ACM QUANTITIES			
ACM CATEGORY	DESCRIPTION	LOCATION	QUANTITY
FRIABLE	NONE IDENTIFIED	-	-
NON-FRIABLE CATEGORY I	GASKETS	LOT 3 BOILER	1
NON-FRIABLE CATEGORY II	NONE IDENTIFIED	-	-

COLD BAY - ESTIMATED TENTIALLY HAZARDOUS MATERIAL QUANTITIES		
DESCRIPTION	QUANTITY	
	NOR HANGAR	SOUTH HANGAR
MERCURY CON NING FLUORESCENT BULBS		62
POTEN L PCB CONTAINING BALLASTS	9	25
HIGH PRESSURE SODIUM BULBS	10	14
FIRE EXTINGUISHERS	11	15
LEAD ACID BATTERIES	0	5
HYDRAULIC DOOR CLO RES - POTENTIAL PCB CONTAINING OIL	0	3
55-GALLON DRUM USE OIL/FUEL	11	1
55-GALLON INDUSTRIAL DEGREASER	1	0
55-GALLON DRUM JET-A	0	2
55-GALLON DRUM PROPYLENE GLYCOL	0	1
55-GALLON DRUM - UNLABELED	0	
5-GALLON BUCKETS, USED OIL	0	3
5-GALLON CONTAINER (AFFF)	0	1
MISCELLANEOUS SMALL CONTAINERS - <5-GALLON	THROUGHOUT	THROUGHO
FLOOR DRAIN	1	0
TRENCH DRAIN	0	50 LINEAR FEET

KODIAK - ESTIMATED POTENTIALLY HAZARDOUS MATERIAL QUANTITIES		
DESCRIPTION	QUANTITY	
	LOT 3	LOT 5
MERCURY CONTAINING FLUORESCENT BULBS	30	14
POTENTIAL PCB CONTAINING BALLASTS	15	7
FIRE EXTINGUISHERS	8	1
LEAD ACID BATTERIES	6	13
ABANDONED VEHICLES - MISCELLANEOUS POTENTIALLY HAZARDOUS MATERIALS	46	0
MOTORHOME - MISCELLANEOUS POTENTIALLY HAZARDOUS MATERIALS	1	0
PORTABLE PROPANE TANKS	0	3
MISCELLANEOUS SMALL CONTAINERS - <5-GALLON	THROUGHOUT	THROUGHOUT
FLOOR DRAIN	2	0

Not in Contract

HAZARDOUS MATERIAL NOTES

1. DRAWING LEGEND, KEY, AND HAZARDOUS MATERIAL NOTES APPLY TO ALL HAZARDOUS MATERIAL SHEETS.
2. A LIMITED HAZARDOUS MATERIALS ASSESSMENT FOR THE PROPOSED CONSTRUCTION HAS BEEN COMPLETED AS PART OF THESE PROJECT DOCUMENTS. POTENTIALLY HAZARDOUS MATERIALS IN THE WORK AREA HAVE BEEN IDENTIFIED ON THESE DRAWINGS. ALL SAMPLE LOCATIONS AND RESULTS COLLECTED AS PART OF THIS ASSESSMENT ARE IDENTIFIED ON THESE DRAWINGS. THE HAZARDOUS MATERIAL DRAWINGS AND SPECIFICATIONS REPRESENT THE ENTIRETY OF THE HAZARDOUS MATERIALS ASSESSMENT. A STANDALONE HAZARDOUS MATERIALS ASSESSMENT REPORT IS NOT AVAILABLE.
3. DUE TO HAZARDOUS CONDITIONS PRESENT AT TIME OF INSPECTION, ROOFING MATERIALS AND ROOF PENETRATIONS, BOILERS WITH GASKETS, AND INDUSTRIAL EQUIPMENT WERE NOT ASSESSED FOR ASBESTOS. SUSPECT ROOFING MATERIALS AND GASKETS ARE ASSUMED TO CONTAIN ASBESTOS UNLESS FURTHER TESTING IS PERFORMED PRIOR TO DEMOLITION.
4. HAZARDOUS MATERIAL QUANTITIES PROVIDED ARE ESTIMATES AND REPRESENT ONLY CONDITIONS ONSITE AT TIME OF INSPECTION.
5. SAMPLE RESULTS PROVIDED DO NOT RELIEVE THE CONTRACTOR OF THE RESPONSIBILITY TO PERFORM HIS OWN ASSESSMENT PRIOR TO DEMOLITION TO VERIFY AND QUANTIFY THE PRESENCE OF HAZARDOUS MATERIAL. THE CONTRACTOR SHALL NOTIFY THE DEPARTMENT IF ANY UNTESTED SUSPECT MATERIAL ARE IDENTIFIED IN ANY EXISTING OR PREVIOUSLY UNIDENTIFIED HIDDEN SPACES.
6. UNLESS A BALLAST IS CLEARLY LABELED AS "NON-PCB CONTAINING", THE BALLAST SHALL BE CONSIDERED A PCB-CONTAINING BALLAST.
7. REMOVE AND PROPERLY DISPOSE OF ALL MERCURY CONTAINING THERMOSTATS, LIGHTING BALLASTS, AFFF, AND OTHER IDENTIFIED HAZARDOUS MATERIALS.
8. REMOVE AND PROPERLY DISPOSE OF ALL HAZARDOUS MATERIALS ON THE PROJECT SITE. ALL REMOVED ITEMS AND MATERIALS SHALL BE MANIFESTED AND DISPOSED OF IN A LEGAL MANNER, COMPLYING WITH ALL LOCAL, STATE, AND FEDERAL LAWS AND REGULATIONS.
9. THE CONTRACTOR SHALL PROVIDE RECEIPTS TO THE ENGINEER INDICATING THE FINAL DISPOSITION OF ALL MATERIALS. RECEIPTS FOR ALL MATERIALS TRANSPORTED OFF SITE TO A PERMITTED FACILITY FOR DISPOSAL, REMEDIATION, OR TESTING WILL BE TRANSMITTED BY THE CONTRACTOR TO THE ENGINEER WITHIN 24 HOURS OF DELIVERY TO THE PERMITTED FACILITY. ALL MATERIALS REQUIRING A CHAIN OF CUSTODY WILL REMAIN IN THE CUSTODY OF THE CONTRACTOR UNTIL FINAL DISPOSITION. THE DEPARTMENT IS OWNER OF ONLY THOSE ITEMS DESIGNATED TO REMAIN AND WILL NOT BE SIGNATORY TO A MANIFEST, CERTIFICATE OF FINAL DISPOSITION OR TRANSFER, OR CHAIN OF CUSTODY FOR ITEMS SCHEDULED FOR DEMOLITION OR REMOVAL.
10. BURNING AND USE OF EXPLOSIVES WILL NOT BE PERMITTED ON THE PROJECT.
11. THESE BUILDINGS LACK ELEMENTS TO DETER ENTRY AND MAY BE ACCESSIBLE TO UNAUTHORIZED ENTRANTS. CONTRACTOR IS RESPONSIBLE FOR SITE SECURITY AND ACCESS UPON RECEIPT OF NTP. CONTRACTOR IS RESPONSIBLE FOR ALL ADDITIONAL MATERIALS PLACE ONSITE ONCE SITE SECURITY IS ESTABLISHED.
12. CONTRACTOR WILL PREVENT VISIBLE DUST EMISSIONS DURING DEMOLITION ACTIVITIES.

ACRONYM KEY

ACM - ASBESTOS CONTAINING MATERIAL
AFFF - AQUEOUS FILM FORMING FOAM (ASSUMED PFAS CONTAINING)
GWB - GYPSUM WALL BOARD
LBP - LEAD BASED PAINT
ND - NONE DETECTED/NONE OBSERVED

65% DESIGN REVIEW

BY	DATE	REVISION

PLANS DEVELOPED BY:
NORTECH ENGINEERING
CORPORATE NO: AECC682

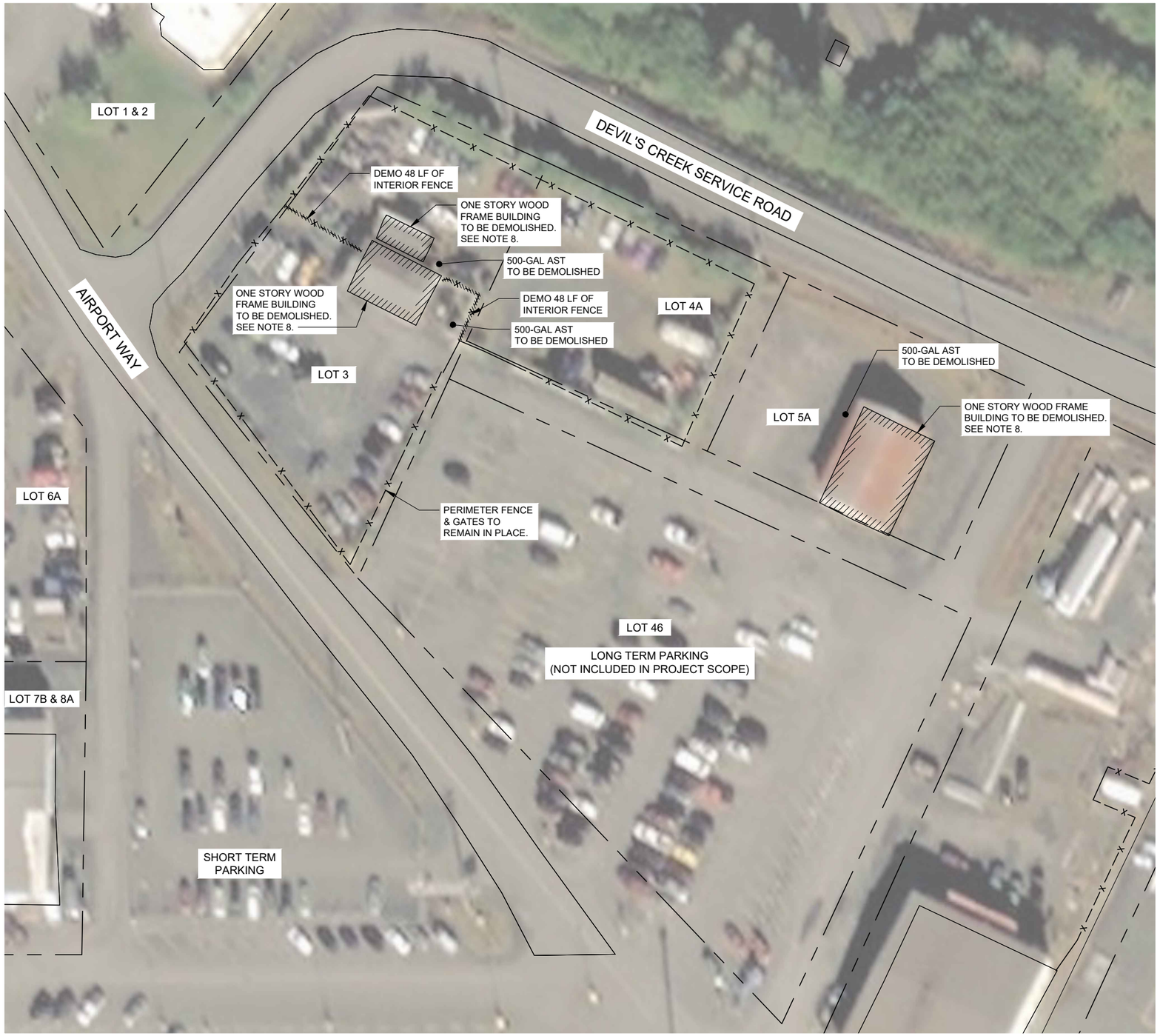
STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION AND PUBLIC FACILITIES
SOUTH COAST REGION

SOUTH COAST REGION STRUCTURE REMOVAL
COLD BAY AIRPORT, PEN AIR HANGERS
KODIAK AIRPORT BUILDING REMOVALS
PROJECT No. TBD
HAZARDOUS MATERIAL NOTES

DATE: 03/11/2022
SHEET: G2.0

Designed By: PJB
Drawn By: SPH
Checked By: PJB
Date Revised: 3/14/2022
Layout Name: G2.0
File Path & Name: C:\Users\sean.heaney\Nortech, Inc\21-2502 J - RMCI So. Coast Airports Bldg Asmts - Documents\20-Cold Bay Hangars\Drawings\21292(c06).dwg

R&M PROJECT NUMBER: 2658.13



0 20 40
SCALE IN FEET

DEMOLITION PLAN NOTES:

1. ALL ITEMS SCHEDULED FOR DEMOLITION SHALL BE REMOVED FROM THE PROJECT SITE (LOT 3, 4a, AND 5A) AND SHALL BE DISPOSED OF BY THE CONTRACTOR UNLESS NOTED OTHERWISE. OWNER HAS FIRST RIGHT TO SALVAGE ANY ITEMS MARKED FOR DEMOLITION.
2. OWNER RESERVES THE RIGHT TO SALVAGE ITEMS FROM THE SITE PRIOR TO THE CONTRACTOR MOBILIZATION OF THE SITE AND DURING DEMOLITION. CONTRACTOR TO NOTIFY OWNER SEVENTY-TWO HOURS PRIOR TO SITE MOBILIZATION TO ALLOW OWNER TO SALVAGE ANY ITEM SHOWN ON THE PLANS.
3. THE CONTRACTOR IS RESPONSIBLE FOR ALL UTILITY LOCATES IN ACCORDANCE WITH ALASKA DIG LINE AND APPLICABLE ALASKA ADMINISTRATIVE CODE (AAC).
4. THE CONTRACTOR IS RESPONSIBLE FOR THE DEMOLITION AND REMOVAL OF ALL EXISTING ITEMS NECESSARY FOR COMPLETION OF THE WORK.
5. LIMIT GROUND DISTURBING ACTIVITY TO ONLY WHAT IS NECESSARY FOR DEMOLITION WORK. PROTECT IN PLACE EXISTING FEATURES THAT ARE NOT SCHEDULED FOR DEMOLITION.
6. CONTRACTOR SHALL MAINTAIN FENCING AT PERIMETER OF LOT 3 AND 4A. DEMOLISH INTERIOR FENCING AS NOTED ON PLAN.
7. SEE LEGEND AND ABBREVIATIONS ON SHEET H1.1

CIVIL WORK ITEMS:

8. REMOVE ALL ABOVE GROUND PORTIONS OF EXISTING STRUCTURES. ALL BELOWGROUND FOUNDATIONS AND SLAB SURFACES TO REMAIN IN PLACE. FOUNDATION WALLS AND CURBS ABOVE THE SURROUNDING GROUND SURFACE SHALL BE CUT DOWN AND REMOVED TO GROUND SURFACE LEVEL.
9. PLUG AND CAP ALL FLOOR DRAINS AND WASTEWATER PIPING AT FLOOR SLAB.
10. ANY AST PIPING BETWEEN THE TANK AND THE BUILDING FOOTPRINT SHALL BE REMOVED AND CAPPED. DO NOT REMOVE PIPING IN THE INTERIOR OF THE BUILDING.

SITE PHOTO 1: REPRESENTATIVE CONDITIONS

SITE PHOTO 2: REPRESENTATIVE CONDITIONS

Designed By:
Drawn By:
Checked By:

Date Revised:
Layout Name:
File Path & Name:

R&M PROJECT NUMBER: 2658.13

65% DESIGN REVIEW

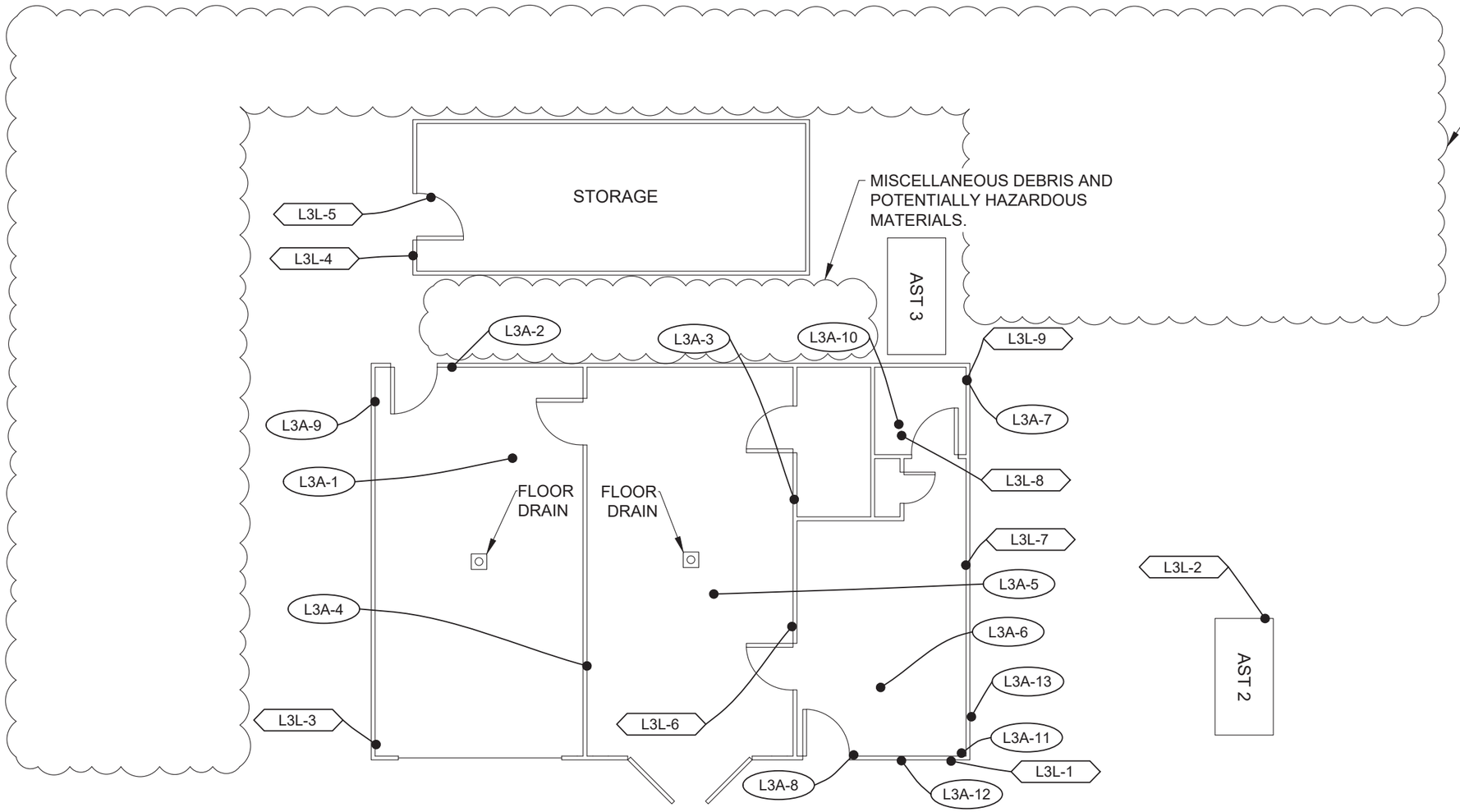
PLANS DEVELOPED BY:
R&M CONSULTANTS, INC.
CERT. OF AUTH.: AECC111

BY	DATE	REVISION

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION AND PUBLIC FACILITIES
SOUTH COAST REGION

SOUTH COAST REGION STRUCTURE REMOVAL
KODIAK AIRPORT BUILDING REMOVALS
LOT 5A & LOT 3, BLOCK 1400, KODIAK AIRPORT
PROJECT No. TBD
EXISTING SITE & DEMOLITION PLAN

DATE: 03/14/2022
SHEET: H2.1



Lot 3		
Asbestos Sample Results (Method EPA 600/R-93/116)		
Sample ID	**Description**	**Result**
L3A1	white drywall	ND
L3A1	white joint compound	ND
L3A2	white drywall	ND
L3A2	white joint compound	ND
L3A3	drywall	ND
L3A3	white joint compound	ND
L3A4	white joint compound	ND
L3A5	white drywall	ND
L3A5	off-white joint compound	ND
L3A6	white drywall	ND
L3A7	white drywall	ND
L3A8	white drywall	ND
L3A8	off-white joint compound	ND
L3A9	white drywall	ND
L3A9	off-white joint compound	ND
L3A-10	tan mastic	ND
L3A-11	black roof shingle	ND
L3A-11	black tar paper	ND
L3A-12	white caulking	ND
L3A-13	gray caulking	ND

Lot 3				
Lead Sample Results (XRF NITON)				
Sample ID	**Color**	**Surface**	**Substrate**	**Result (mg/cm^2)**
L3L-1	gray	siding	wood	0.00
L3L-2	gray	wall	concrete	0.00
L3L-3	white	wall	plywood	0.00
L3L-4	gray	wall	plywood	0.00
L3L-5	white	door	fiberglass	0.10
L3L-6	white	wall	plywood	0.00
L3L-7	white	wall	plywood	0.00
L3L-8	gray	floor	concrete	0.00
L3L-9	white	wall	drywall	0.00

LEGEND

- 0123 — ASBESTOS SAMPLE LOCATIONS NEGATIVE (<1% ASBESTOS)
- 0123 — ASBESTOS SAMPLE LOCATIONS POSITIVE (≥1% ASBESTOS)

SEE ASBESTOS TABULATED RESULTS FOR ACM SAMPLE NUMBER

- 0123 — LEAD BASED PAINT SAMPLE (<1mg/cm sq)(HUD)
- 0123 — LEAD BASED PAINT SAMPLE (≥1mg/cm sq)(HUD)

SEE LEAD BASED PAINT TABULATION RESULTS FOR CONCENTRATION FOR LEAD SAMPLE NUMBER

0' 4' 8' 16'

GRAPHIC SCALE 1" = 4'

65% DESIGN REVIEW

PLANS DEVELOPED BY:
NORTECH ENGINEERING
CORPORATE NO: AECC682

BY	DATE	REVISION

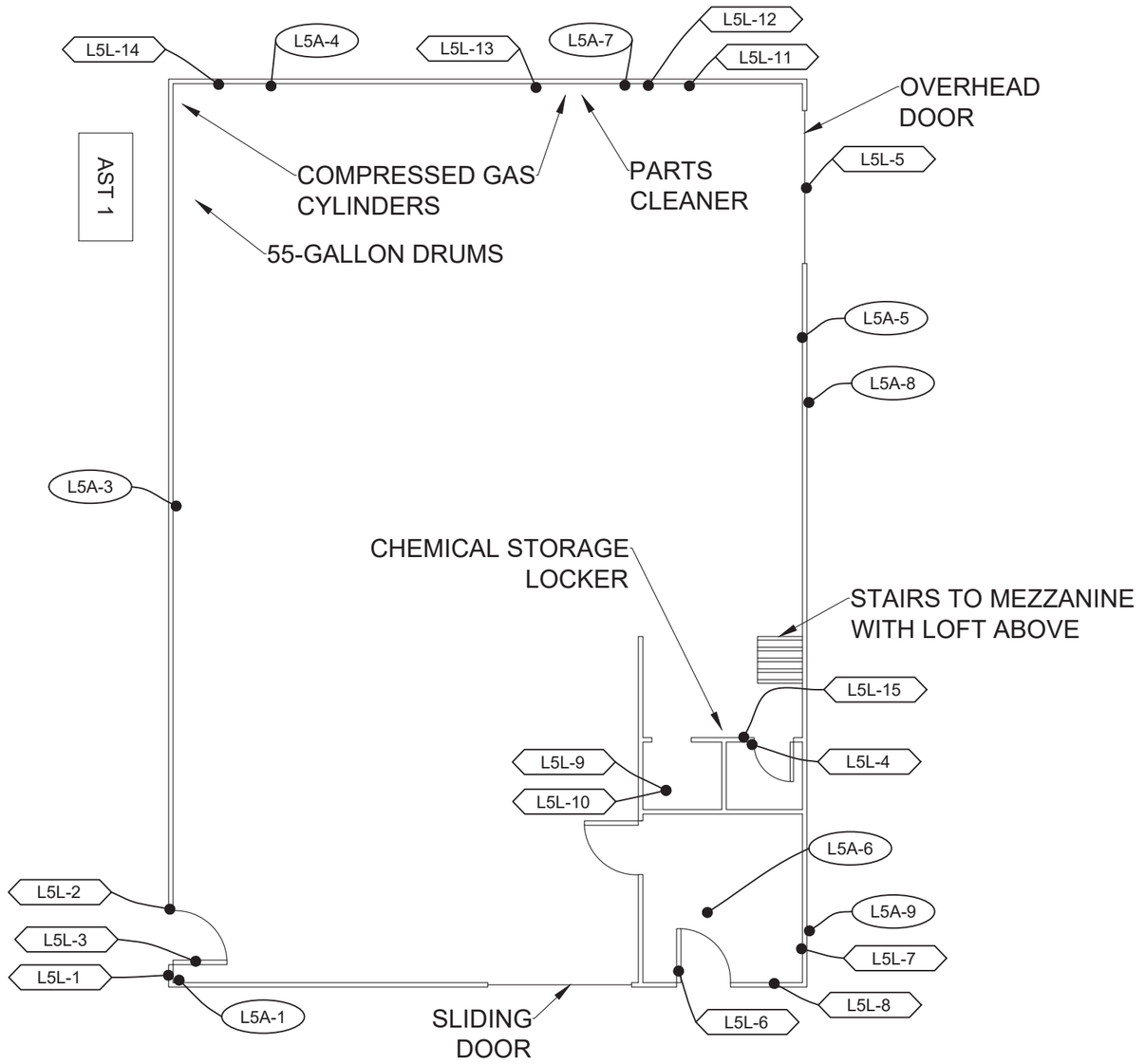
STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION AND PUBLIC FACILITIES
SOUTH COAST REGION

SOUTH COAST REGION STRUCTURE REMOVAL
KODIAK AIRPORT BUILDING REMOVALS
LOT 5A & LOT 3, BLOCK 1400, KODIAK AIRPORT
PROJECT No. TBD
LOT 3 - ASBESTOS & LEAD

DATE: 03/11/2022
SHEET: H2.2

R&M PROJECT NUMBER: 2658.13

Designed By: PLB
Drawn By: SPH
Checked By: PLB
Date Revised: 3/14/2022
Layout Name: H2.2
File Path & Name: C:\Users\sean.hearey\NORTECH, Inc\21-2902 J - RMM Sb. Coast Airport Bldg Asemts - Documents\30-Kodiak Buildings\Drawings\2125(2)(60).dwg



Lot 5		
Asbestos Sample Results (Method EPA 600/R-93/116)		
Sample ID	**Description**	**Result**
L5A-1	black roof material	ND
L5A-3	off-white drywall	ND
L5A-4	white drywall	ND
L5A-4	off-white joint compound	ND
L5A-5	off-white joint compound	ND
L5A-5	white ceiling texture	ND
L5A-6	white drywall	ND
L5A-6	white joint compound	ND
L5A-7	yellow/gray foam	ND
L5A-8	yellow foam	ND
L5A-9	yellow foam	ND
L5A-9	tan rubber	ND

Lot 5				
Lead Sample Results (XRF NITON)				
Sample ID	**Color**	**Surface**	**Substrate**	**Result (mg/cm^2)**
L5L-1	beige	exterior wall	plywood	0.00
L5L-2	white	trim	wood	0.22
L5L-3	dark gray	door	fiberglass	0.00
L5L-4	light yellow	exterior wall	plywood	0.00
L5L-5	white	garage door	fiberglass	0.00
L5L-6	gray	door	fiberglass	0.00
L5L-7	white	wall	drywall	0.00
L5L-8	yellow	footer	concrete	0.00
L5L-9	metallic gray	wall	plywood	0.00
L5L-10	red	wall	plywood	0.00
L5L-11	yellow	electrical box	metal	0.4
L5L-12	red	outlet	metal	0.00
L5L-13	white	wall	drywall	0.00
L5L-14	light gray	wall	drywall	0.00
L5L-15	red	flammable cabinet	metal	0.6
L5L-16	white	wall	drywall	0.00

LEGEND

0123 — ASBESTOS SAMPLE LOCATIONS NEGATIVE (<1% ASBESTOS)

0123 — ASBESTOS SAMPLE LOCATIONS POSITIVE (≥1% ASBESTOS)

SEE ASBESTOS TABULATED RESULTS FOR ACM SAMPLE NUMBER

0123 — LEAD BASED PAINT SAMPLE (<1mg/cm sq)(HUD)

0123 — LEAD BASED PAINT SAMPLE (≥1mg/cm sq)(HUD)

SEE LEAD BASED PAINT TABULATION RESULTS FOR CONCENTRATION FOR LEAD SAMPLE NUMBER

0' 5' 10' 20'

GRAPHIC SCALE 1" = 5'

65% DESIGN REVIEW

PLANS DEVELOPED BY:
NORTECH ENGINEERING
CORPORATE NO: AECC682

BY	DATE	REVISION

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION AND PUBLIC FACILITIES
SOUTH COAST REGION

SOUTH COAST REGION STRUCTURE REMOVAL
KODIAK AIRPORT BUILDING REMOVALS
LOT 5A & LOT 3, BLOCK 1400, KODIAK AIRPORT
PROJECT No. TBD
LOT 5A - ASBESTOS & LEAD

DATE: 03/11/2022
SHEET: H2.3

R&M PROJECT NUMBER: 2658.13

Date Revised: 3/14/2022
Layout Name: H2.3
File Path & Name: C:\Users\sean.hearey\NORTECH, Inc\21-2902 J - RMOI Sc. Coast Airports Bldg Assmts - Documents\30-Kodiak Buildings\Drawings\2 12502(60).dwg

Designed By: PLB
Drawn By: SPH
Checked By: PLB

PHOTO 1: LOT 3 - LOOKING EAST AT CONCRETE ENCASED ABOVE GROUND STORAGE TANK (AST) WITH DISPENSER.

PHOTO 2: LOT 3 - LOOKING EAST BETWEEN STORAGE SHED AND MAIN STRUCTURE AT POTENTIALLY HAZARDOUS MATERIALS AND METAL AST.

PHOTO 3: LOT 3 - LOOKING NORTHEAST AT ABANDONED VEHICLES. ASSUMED TO CONTAIN LEAD ACID BATTERIES AND POLs.

PHOTO 4: LOT 3 - STORAGE SHED CONTAINING A PLETHORA OF MISCELLANEOUS POTOENTIALLY HAZARDOUS MATERIALS.

PHOTO 5: LOT 3 - ABANDONED RV ONSITE.

PHOTO 6: LOT 3 - ABANDONED BOAT AND TRAILERS ONSITE.

PHOTO 7: LOT 3 - TYPICAL FLOOR DRAIN IN CENTER OF GARAGES.

PHOTO 8: LOT 3 - TYPICAL ASSUMED PCB CONTAINING BALLAST.

PHOTO 9: LOT 3 - PARTS CLEANER.

PHOTO 10: LOT 5 - IN BACKGROUND; 55-GALLON DRUM STORAGE, PARTS CLEANER, COMPRESSED GAS CYLINDERS.

PHOTO 11: LOT 5 - CHEMICAL STORAGE LOCKERS WITH POTENTIALLY HAZARDOUS MATERIALS.

PHOTO 12: LOT 5 - LOFT WITH DEBRIS. ADDITIONAL ROOMS TO LEFT IN PHOTO.

Note: some items such as the RV, boat, and trailers have been removed. See January 2026 photos for current conditions

PLANS DEVELOPED BY:
NORTECH ENGINEERING
CORPORATE NO: AECC682

BY	DATE	REVISION

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION AND PUBLIC FACILITIES
SOUTH COAST REGION

SOUTH COAST REGION STRUCTURE REMOVAL
KODIAK AIRPORT BUILDING REMOVALS
LOT 5A & LOT 3, BLOCK 1400, KODIAK AIRPORT
PROJECT No. TBD
PHOTOGRAPHS

DATE: 03/11/2022
SHEET: H2.4

65% DESIGN REVIEW

R&M PROJECT NUMBER: 2658.13

Designed By:	PJB
Drawn By:	SPH
Checked By:	PJB
Date Revised:	3/14/2022
Layout Name:	H2.4
File Path & Name:	C:\Users\sean.heaney\NORTECH, Inc\21-2502 J - RMCI So. Coast Airports Bldg Asemts - Documents\30-Kodiak Buildings\Drawings\21250(2)(60).dwg

iATL INTERNATIONAL
ASBESTOS TESTING LABORATORIES

9000 Commerce Parkway Suite B
Mt. Laurel, New Jersey 08054
Telephone: 856-231-9449
Email: customerservice@iatl.com

CERTIFICATE OF ANALYSIS

Client: Nortech Engineering
5438 Shaune Drive
Juneau AK 99801

Client: NOR543

Report Date: 11/22/2021
Report No.: 647538 - PLM Screen Rev #4, 11/30/2021
Project: RMCI So. Coast Airports Bldg A
Project No.: 21-2502

BULK SAMPLE ANALYSIS SUMMARY

Lab No.: 7316893
Client No.: L3A1
Description: White Drywall
Facility:
Location: Interior Ceiling of Far Left Garage

Percent Asbestos:
None Detected

Percent Non-Asbestos Fibrous Material:
2 Cellulose
2 Fibrous Glass

Percent Non-Fibrous Material:
96

Lab No.: 7316893(L2)
Client No.: L3A1
Description: White Joint Compound
Facility:
Location: Interior Ceiling of Far Left Garage

Percent Asbestos:
None Detected

Percent Non-Asbestos Fibrous Material:
None Detected

Percent Non-Fibrous Material:
100

Lab No.: 7316894
Client No.: L3A2
Description: White Drywall
Facility:
Location: Interior Back Wall of Far Left Garage

Percent Asbestos:
None Detected

Percent Non-Asbestos Fibrous Material:
2 Cellulose
1 Fibrous Glass

Percent Non-Fibrous Material:
97

Lab No.: 7316894(L2)
Client No.: L3A2
Description: White Joint Compound
Facility:
Location: Interior Back Wall of Far Left Garage

Percent Asbestos:
None Detected

Percent Non-Asbestos Fibrous Material:
None Detected

Percent Non-Fibrous Material:
100

Lab No.: 7316895
Client No.: L3A3
Description: White Drywall
Facility:
Location: Right Wall Middle of Garage

Percent Asbestos:
None Detected

Percent Non-Asbestos Fibrous Material:
2 Fibrous Glass
1 Cellulose

Percent Non-Fibrous Material:
97

Lab No.: 7316895(L2)
Client No.: L3A3
Description: White Joint Compound
Facility:
Location: Right Wall Middle of Garage

Percent Asbestos:
None Detected

Percent Non-Asbestos Fibrous Material:
None Detected

Percent Non-Fibrous Material:
100

Please refer to pages 1 through 4 of this report for further information regarding your analysis.

Date Received: 11/12/2021
Date Analyzed: 11/17/2021
Signature:
Analyst: Michael Moore

Approved By:
Frank E. Ehrenfeld, III
Laboratory Director

Dated : 11/30/2021 3:26:55

iATL INTERNATIONAL
ASBESTOS TESTING LABORATORIES

9000 Commerce Parkway Suite B
Mt. Laurel, New Jersey 08054
Telephone: 856-231-9449
Email: customerservice@iatl.com

CERTIFICATE OF ANALYSIS

Client: Nortech Engineering
5438 Shaune Drive
Juneau AK 99801

Client: NOR543

Report Date: 11/22/2021
Report No.: 647538 - PLM Screen Rev #4, 11/30/2021
Project: RMCI So. Coast Airports Bldg A
Project No.: 21-2502

BULK SAMPLE ANALYSIS SUMMARY

Lab No.: 7316896
Client No.: L3A4
Description: White Joint Compound
Facility:
Location: Left Wall Middle of Garage

Percent Asbestos:
None Detected

Percent Non-Asbestos Fibrous Material:
None Detected

Percent Non-Fibrous Material:
100

Lab No.: 7316897
Client No.: L3A5
Description: White Drywall
Facility:
Location: Ceiling of Middle of Garage

Percent Asbestos:
None Detected

Percent Non-Asbestos Fibrous Material:
1 Fibrous Glass

Percent Non-Fibrous Material:
99

Lab No.: 7316897(L2)
Client No.: L3A5
Description: Off-White Joint Compound
Facility:
Location: Ceiling of Middle of Garage

Percent Asbestos:
None Detected

Percent Non-Asbestos Fibrous Material:
None Detected

Percent Non-Fibrous Material:
100

Lab No.: 7316898
Client No.: L3A6
Description: White Drywall
Facility:
Location: Ceiling of Office

Percent Asbestos:
None Detected

Percent Non-Asbestos Fibrous Material:
2 Fibrous Glass

Percent Non-Fibrous Material:
98

Lab No.: 7316899
Client No.: L3A7
Description: White Drywall
Facility:
Location: Inside Bathroom of Right Exterior Wall

Percent Asbestos:
None Detected

Percent Non-Asbestos Fibrous Material:
2 Fibrous Glass

Percent Non-Fibrous Material:
98

Lab No.: 7316900
Client No.: L3A8
Description: White Drywall
Facility:
Location: Right Next to Office Entrance Door

Percent Asbestos:
None Detected

Percent Non-Asbestos Fibrous Material:
2 Fibrous Glass

Percent Non-Fibrous Material:
98

Please refer to pages 1 through 4 of this report for further information regarding your analysis.

Date Received: 11/12/2021
Date Analyzed: 11/17/2021
Signature:
Analyst: Michael Moore

Approved By:
Frank E. Ehrenfeld, III
Laboratory Director

Dated : 11/30/2021 3:26:55

Designed By: PJB
Drawn By: SPH
Checked By: PJB

Date Revised: 3/14/2022
Layout Name: H2.5
File Path & Name: C:\Users\sean.heaney\NORTECH, Inc\21-2502 J - RMCI So. Coast Airports Bldg Assets - Documents\30-Kodiak Buildings\Drawings\21250216(0).dwg

R&M PROJECT NUMBER: 2658.13

65% DESIGN REVIEW

PLANS DEVELOPED BY:
NORTECH ENGINEERING
CORPORATE NO: AECC682

BY	DATE	REVISION

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION AND PUBLIC FACILITIES
SOUTH COAST REGION

SOUTH COAST REGION STRUCTURE REMOVAL
KODIAK AIRPORT BUILDING REMOVALS
LOT 5A & LOT 3, BLOCK 1400, KODIAK AIRPORT
PROJECT No. TBD
LABORATORY REPORT

DATE: 03/11/2022
SHEET: H2.5

iATL INTERNATIONAL
ASBESTOS TESTING LABORATORIES

9000 Commerce Parkway Suite B
Mt. Laurel, New Jersey 08054
Telephone: 856-231-9449
Email: customerservice@iatl.com

CERTIFICATE OF ANALYSIS

Client: Nortech Engineering
5438 Shaune Drive
Juneau AK 99801

Client: NOR543

Report Date: 11/22/2021
Report No.: 647538 - PLM Screen Rev #4, 11/30/2021
Project: RMCI So. Coast Airports Bldg A
Project No.: 21-2502

BULK SAMPLE ANALYSIS SUMMARY

Lab No.: 7316900(L2)
Client No.: L3A8
Description: Off-White Joint Compound
Facility:
Location: Right Next to Office Entrance Door

Percent Asbestos: *None Detected*
Percent Non-Asbestos Fibrous Material: None Detected
Percent Non-Fibrous Material: 100

Lab No.: 7316901
Client No.: L3A9
Description: White Drywall
Facility:
Location: Far Left Wall in the Far Left Garage

Percent Asbestos: *None Detected*
Percent Non-Asbestos Fibrous Material: 2 Fibrous Glass
Percent Non-Fibrous Material: 98

Lab No.: 7316901(L2)
Client No.: L3A9
Description: Off-White Joint Compound
Facility:
Location: Far Left Wall in the Far Left Garage

Percent Asbestos: *None Detected*
Percent Non-Asbestos Fibrous Material: None Detected
Percent Non-Fibrous Material: 100

Please refer to pages 1 through 4 of this report for further information regarding your analysis.

Date Received: 11/12/2021
Date Analyzed: 11/17/2021
Signature:
Analyst: Michael Moore

Approved By:
Frank E. Ehrenfeld, III
Laboratory Director

Dated : 11/30/2021 3:26:55

iATL INTERNATIONAL
ASBESTOS TESTING LABORATORIES

9000 Commerce Parkway Suite B
Mt. Laurel, New Jersey 08054
Telephone: 856-231-9449
Email: customerservice@iatl.com

CERTIFICATE OF ANALYSIS

Client: Nortech Engineering
5438 Shaune Drive
Juneau AK 99801

Client: NOR543

Report Date: 11/22/2021
Report No.: 647538 - PLM Screen Rev #4, 11/30/2021
Project: RMCI So. Coast Airports Bldg A
Project No.: 21-2502

BULK SAMPLE ANALYSIS SUMMARY

Lab No.: 7316902
Client No.: L3A-10
Description: Tan Mastic
Facility:
Location: Bathroom Floor

Percent Asbestos: *None Detected*
Percent Non-Asbestos Fibrous Material: None Detected
Percent Non-Fibrous Material: 100

Lab No.: 7316903
Client No.: L3A-11
Description: Black Shingle
Facility:
Location: Roof Sample

Percent Asbestos: *None Detected*
Percent Non-Asbestos Fibrous Material: 10 Fibrous Glass
Percent Non-Fibrous Material: 90

Lab No.: 7316903(L2)
Client No.: L3A-11
Description: Black Tar Paper
Facility:
Location: Roof Sample

Percent Asbestos: *None Detected*
Percent Non-Asbestos Fibrous Material: 50 Cellulose
Percent Non-Fibrous Material: 50

Lab No.: 7316904
Client No.: L3A-12
Description: White Caulk
Facility:
Location: Office Window on the Front Side of Building

Percent Asbestos: *None Detected*
Percent Non-Asbestos Fibrous Material: None Detected
Percent Non-Fibrous Material: 100

Lab No.: 7316905
Client No.: L3A-13
Description: Grey Caulk
Facility:
Location: Office Window on the Left Side of Building

Percent Asbestos: *None Detected*
Percent Non-Asbestos Fibrous Material: None Detected
Percent Non-Fibrous Material: 100

Please refer to pages 1 through 4 of this report for further information regarding your analysis.

Date Received: 11/12/2021
Date Analyzed: 11/18/2021
Signature:
Analyst: Sarah Lipiecki

Approved By:
Frank E. Ehrenfeld, III
Laboratory Director

Dated : 11/30/2021 3:26:55

Designed By: PLB
Drawn By: SPH
Checked By: PLB

Date Revised: 3/14/2022
Layout Name: H2.6
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R&M PROJECT NUMBER: 2658.13

65% DESIGN REVIEW

PLANS DEVELOPED BY:
NORTECH ENGINEERING
CORPORATE NO: AECC682

BY	DATE	REVISION

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION AND PUBLIC FACILITIES
SOUTH COAST REGION

SOUTH COAST REGION STRUCTURE REMOVAL
KODIAK AIRPORT BUILDING REMOVALS
LOT 5A & LOT 3, BLOCK 1400, KODIAK AIRPORT
PROJECT No. TBD
LABORATORY REPORT

DATE: 03/11/2022
SHEET: H2.6

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Mt. Laurel, New Jersey 08054
Telephone: 856-231-9449
Email: customerservice@iatl.com

CERTIFICATE OF ANALYSIS

Client: Nortech Engineering
5438 Shaune Drive
Juneau AK 99801

Client: NOR543

Report Date: 11/22/2021
Report No.: 647538 - PLM Screen
Project: RMCI So. Coast Airports Bldg A
Project No.: 21-2502

Appendix to Analytical Report:

Customer Contact: Jen Stoutamore
Analysis: US EPA 600, R93-116

This appendix seeks to promote greater understanding of any observations, exceptions, special instructions, or circumstances that the laboratory needs to communicate to the client concerning the above samples. The information below is used to help promote your ability to make the most informed decisions for you and your customers. Please note the following points of contact for any questions you may have.
iATL Customer Service: customerservice@iatl.com
iATL Office Manager: cdavis@iatl.com
iATL Account Representative: Semih Kocahasan

Project Summary:

Sample Login Notes: See Batch Sheet Attached
Sample Matrix: Bulk Building Materials
Exceptions Noted: See Following Pages

General Terms, Warrants, Limits, Qualifiers:

General information about iATL capabilities and client/laboratory relationships and responsibilities are spelled out in iATL policies that are listed at www.iATL.com and in our Quality Assurance Manual per ISO 17025 standard requirements. The information therein is a representation of iATL definitions and policies for turnaround times, sample submittal, collection media, blank definitions, quantification issues and limit of detection, analytical methods and procedures, sub-contracting policies, results reporting options, fees, terms, and discounts, confidentiality, sample archival and disposal, and data interpretation.

iATL warrants the test results to be of a precision normal for the type and methodology employed for each sample submitted. iATL disclaims any other warrants, expressed or implied, including warranty of fitness for a particular purpose and warranty of merchantability. iATL accepts no legal responsibility for the purpose for which the client uses test results. Any analytical work performed must be governed by our Standard Terms and Conditions. Prices, methods and detection limits may be changed without notification. Please contact your Customer Service Representative for the most current information.

This confidential report relates only to those item(s) tested and does not represent an endorsement by NIST-NVLAP, AIHA LAP LLC, or any agency of local, state or province governments nor of any agency of the U.S. government.

Information Pertinent to this Report:

Analysis by US EPA 600 93-116: Determination of Asbestos in Bulk Building Materials by Polarized Light Microscopy (PLM).

Quantification at <0.25% by volume is possible with this method. (PC) Indicates Stratified Point Count Method performed. (PC-Trace) means that asbestos was detected but is not quantifiable under the Point Counting regimen. Analysis includes all distinct separable layers in accordance with EPA 600 Method. If not reported or otherwise noted, layer is either not present or the client has specifically requested that it not be analyzed (ex. analyze until positive instructions). Small asbestos fibers may be missed by PLM due to resolution limitations of the optical microscope. Therefore, PLM is not consistently reliable in detecting asbestos in non-friable organically bound (NOB) materials. Quantitative transmission electron microscopy (TEM) is currently the only method that can pronounce materials as non-asbestos containing.

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CERTIFICATE OF ANALYSIS

Client: Nortech Engineering
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Juneau AK 99801

Client: NOR543

Report Date: 11/22/2021
Report No.: 647538 - PLM Screen
Project: RMCI So. Coast Airports Bldg A
Project No.: 21-2502

Analytical Methodology Alternatives: Your initial request for analysis may not have accounted for recent advances in regulatory requirements or advances in technology that are routinely used in similar situations for other qualified projects. You may have the option to explore additional analysis for further information. Below are a few options, listed as the matrix followed by the appropriate methodology. Also included are links to more information on our website.

Bulk Building Materials that are Non-Friable Organically Bound (NOB) by Gravimetric Reduction techniques employing PLM and TEM: ELAP 198.6 (PLM-NOB), ELAP 198.4 (TEM-NOB)

Loose Fill Vermiculite Insulation, Attic Insulation, Zonolite (copyright), etc.: US EPA 600 R-4/004 (multi-tiered analytical process)
Sprayed On Insulation/Fireproofing with Vermiculite (SOF-V): ELAP 198.8 (PLM-SOF-V)

Soil, sludge, sediment, aggregate, and like materials analyzed for asbestos or other elongated mineral particles (ex. erionite, etc.): ASTM D7521, CARB 435, and other options available

Asbestos in Surface Dust according to one of ASTM's Methods (very dependent on sampling collection technique – by TEM): ASTM D 5755, D5756, or D6480

Various other asbestos matrices (air, water, etc.) and analytical methods are available.

Disclaimers / Qualifiers:

There may be some samples in this project that have a "NOTE:" associated with a sample result. We use added disclaimers or qualifiers to inform the client about something that requires further explanation. Here is a complete list with highlighted disclaimers pertinent to this project. For a full explanation of these and other disclaimers, please inquire at **customerservice@iatl.com**.

1) Note: No mastic provided for analysis.
2) Note: Insufficient mastic provided for analysis.
3) Note: Insufficient material provided for analysis.
4) Note: Insufficient sample provided for QC reanalysis.
5) Note: Different material than indicated on Sample Log / Description.
6) Note: Sample not submitted.
7) Note: Attached to asbestos containing material.
8) Note: Received wet.
9) Note: Possible surface contamination.
10) Note: Not building material. 1% threshold may not apply.
11) Note: Recommend TEM-NOB analysis as per EPA recommendations.
12) Note: Asbestos detected but not quantifiable.
13) Note: Multiple identical samples submitted, only one analyzed.
14) Note: Analyzed by EPA 600/R-93/116. Point Counting detection limit at 0.080%.
15) Note: Analyzed by EPA 600/R-93/116. Point Counting detection limit at 0.125%.

Recommendations for Vermiculite Analysis:

Several analytical protocols exist for the analysis of asbestos in vermiculite. These analytical approaches vary depending upon the nature of the vermiculite mineral being tested (e.g. un-processed gange, homogeneous exfoliated books of mica, or mixed mineral composites).

Designed By: PLB
Drawn By: SPH
Checked By: PLB
Date Revised: 3/14/2022
Layout Name: H2.7
File Path & Name: C:\Users\sean.heaney\NORTECH, Inc\21-2502 J - RMCI So. Coast Airports Bldg Assets - Documents\30-Kodiak Buildings\Drawings\21202(60).dwg

R&M PROJECT NUMBER: 2658.13

65% DESIGN REVIEW

PLANS DEVELOPED BY:
NORTECH ENGINEERING
CORPORATE NO: AECC682

BY	DATE	REVISION

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION AND PUBLIC FACILITIES
SOUTH COAST REGION

SOUTH COAST REGION STRUCTURE REMOVAL
KODIAK AIRPORT BUILDING REMOVALS
LOT 5A & LOT 3, BLOCK 1400, KODIAK AIRPORT
PROJECT No. TBD
LABORATORY REPORT

DATE: 03/11/2022
SHEET: H2.7

9000 Commerce Parkway Suite B
Mt. Laurel, New Jersey 08054
Telephone: 856-231-9449
Email: customerservice@iatl.com

CERTIFICATE OF ANALYSIS

Client: Nortech Engineering
5438 Shaune Drive
Juneau AK 99801

Client: NOR543

Report Date: 11/22/2021
Report No.: 647538 - PLM Screen
Project: RMCI So. Coast Airports Bldg A
Project No.: 21-2502

IATL recommends initial testing using the EPA 600/R-93/116 method. This method is specifically designed for the analysis of asbestos in bulk building materials. It provides an acceptable starting point for primary screening of vermiculite for possible asbestos.

Results from this testing may be inconclusive. EPA suggests proceeding to a multi-tiered analysis involving wet separation techniques in conjunction with PLM and TEM gravimetric analysis (EPA 600/R-04/004).

Further information on this method and other vermiculite and asbestos issues can be found at the following: Agency for Toxic Substances and Disease Registry (ATSDR) www.atsdr.cdc.gov, United States Geological Survey (USGS) www.minerals.usgs.gov/minerals/, US EPA www.epa.gov/asbestos. The USEPA also has an informative brochure "Current Best Practices for Vermiculite Attic Insulation" EPA 747F03001 May 2003, that may assist the health and remediation professional.
The following is a summary of the analytical process outlines in the EPA 600/R-04/004 Method:

1)**Analytical Step/Method:** Initial Screening by PLM, EPA 600R-93/116
Requirements/Comments: Minimum of 0.1 g of sample. ~0.25% LOQ for most samples.
Pricing/Turnaround Time: Please contact your client representative for options available.

2)**Analytical Step/Method:** Wet Separation by PLM Gravimetric Technique, EPA R-04/004
Requirements/Comments: Minimum 50g** of dry sample. Analysis of "Sinks" only.
Pricing/Turnaround Time: Please contact your client representative for options available.

3)**Analytical Step/Method:** Wet Separation by PLM Gravimetric Technique, EPA R-04/004
Requirements/Comments: Minimum 50g** of dry sample. Analysis of "Floats" only.
Pricing/Turnaround Time: Please contact your client representative for options available.

4)**Analytical Step/Method:** Wet Separation by TEM Gravimetric Technique, EPA R-04/004
Requirements/Comments: Minimum 50g** of dry sample. Analysis of "Sinks" only.
Pricing/Turnaround Time: Please contact your client representative for options available.

5)**Analytical Step/Method:** Wet Separation by TEM Gravimetric Technique, EPA R-04/004
Requirements/Comments: Minimum 50g** of dry sample. Analysis of "Suspension" only.
Pricing/Turnaround Time: Please contact your client representative for options available.

LOQ, Limit of Quantitation estimates for mass and volume analyses.
*With advance notice and confirmation by the laboratory.
**Approximately 1 Liter of sample in double-bagged container (~9x6 inch bag of sample).

Dated : 11/30/2021 3:26:55

9000 Commerce Parkway Suite B
Mt. Laurel, New Jersey 08054
Telephone: 856-231-9449
Email: customerservice@iatl.com

CERTIFICATE OF ANALYSIS

Client: Nortech Engineering
5438 Shaune Drive
Juneau AK 99801

Client: NOR543

Report Date: 11/22/2021
Report No.: 647539 - PLM Screen Rev #3, 11/30/2021
Project: RMCI So. Coast Airports Bldg A
Project No.: 21-2502

BULK SAMPLE ANALYSIS SUMMARY

Lab No.: 7316906
Client No.: L5A-1
Description: Black Roof Material
Facility:
Location: Under Metal Roofing

Percent Asbestos: *None Detected*
Percent Non-Asbestos Fibrous Material: 15 Cellulose
Percent Non-Fibrous Material: 85

Lab No.: 7316907
Client No.: L5A-2
Description: Sample Not Analyzed
Facility:
Location: Wall That Was Constructed to Make an Office

Percent Asbestos: *Sample Not Analyzed*
Percent Non-Asbestos Fibrous Material: Sample Not Analyzed
Percent Non-Fibrous Material: 100

Lab No.: 7316908
Client No.: L5A-
Description: Off-White Drywall
Facility:
Location: Wall on the Left Side of the Building

Percent Asbestos: *None Detected*
Percent Non-Asbestos Fibrous Material: None Detected
Percent Non-Fibrous Material: 100

Lab No.: 7316909
Client No.: L5A-4
Description: White Drywall
Facility:
Location: Wall at the Back of the Building

Percent Asbestos: *None Detected*
Percent Non-Asbestos Fibrous Material: 2 Fibrous Glass
Percent Non-Fibrous Material: 98

Lab No.: 7316909(L2)
Client No.: L5A-4
Description: Off-White Joint Compound
Facility:
Location: Wall at the Back of the Building

Percent Asbestos: *None Detected*
Percent Non-Asbestos Fibrous Material: None Detected
Percent Non-Fibrous Material: 100

Lab No.: 7316910
Client No.: L5A-5
Description: Off-White Joint Compound
Facility:
Location: Wall on the Right Side of the Building

Percent Asbestos: *None Detected*
Percent Non-Asbestos Fibrous Material: None Detected
Percent Non-Fibrous Material: 100

Please refer to pages 1 through 4 of this report for further information regarding your analysis.

Date Received: 11/12/2021
Date Analyzed: 11/18/2021
Signature:
Analyst: Michael Moore

Approved By:
Frank E. Ehrenfeld, III
Laboratory Director

Dated : 11/30/2021 3:27:18

Designed By:	PLB
Drawn By:	SPH
Checked By:	PLB
Date Revised:	3/14/2022
Layout Name:	H2.8
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R&M PROJECT NUMBER: 2658.13

65% DESIGN REVIEW

PLANS DEVELOPED BY:
NORTECH ENGINEERING
CORPORATE NO: AECC682

BY	DATE	REVISION

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION AND PUBLIC FACILITIES
SOUTH COAST REGION

SOUTH COAST REGION STRUCTURE REMOVAL
KODIAK AIRPORT BUILDING REMOVALS
LOT 5A & LOT 3, BLOCK 1400, KODIAK AIRPORT
PROJECT No. TBD
LABORATORY REPORT

DATE: 03/11/2022
SHEET: H2.8

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Mt. Laurel, New Jersey 08054
Telephone: 856-231-9449
Email: customerservice@iatl.com

CERTIFICATE OF ANALYSIS

Client: Nortech Engineering
5438 Shaune Drive
Juneau AK 99801

Client: NOR543

Report Date: 11/22/2021
Report No.: 647539 - PLM Screen Rev #3, 11/30/2021
Project: RMCI So. Coast Airports Bldg A
Project No.: 21-2502

BULK SAMPLE ANALYSIS SUMMARY

Lab No.: 7316910(L2)
Client No.: L5A-5
Description: White Ceiling Texture
Facility:
Location: Wall on the Right Side of the Building

Percent Asbestos: *None Detected*
Percent Non-Asbestos Fibrous Material: None Detected
Percent Non-Fibrous Material: 100

Lab No.: 7316911
Client No.: L5A-6
Description: White Drywall
Facility:
Location: Ceiling of Office

Percent Asbestos: *None Detected*
Percent Non-Asbestos Fibrous Material: 2 Fibrous Glass
Percent Non-Fibrous Material: 98

Lab No.: 7316911(L2)
Client No.: L5A-6
Description: White Joint Compound
Facility:
Location: Ceiling of Office

Percent Asbestos: *None Detected*
Percent Non-Asbestos Fibrous Material: None Detected
Percent Non-Fibrous Material: 100

Lab No.: 7316912
Client No.: L5A-7
Description: Yellow/Grey Foam
Facility:
Location: From Used to Seal Up ant Area That Used to Contain a Window

Percent Asbestos: *None Detected*
Percent Non-Asbestos Fibrous Material: None Detected
Percent Non-Fibrous Material: 100

Lab No.: 7316913
Client No.: L5A-8
Description: Yellow Foam
Facility:
Location: Window on the Right Side of the Building

Percent Asbestos: *None Detected*
Percent Non-Asbestos Fibrous Material: None Detected
Percent Non-Fibrous Material: 100

Lab No.: 7316914
Client No.: L5A-9
Description: Yellow Foam
Facility:
Location: Window on the Right Side of the Building

Percent Asbestos: *None Detected*
Percent Non-Asbestos Fibrous Material: None Detected
Percent Non-Fibrous Material: 100

Please refer to pages 1 through 4 of this report for further information regarding your analysis.

Date Received: 11/12/2021
Date Analyzed: 11/18/2021
Signature:
Analyst: Michael Moore

Approved By:
Frank E. Ehrenfeld, III
Laboratory Director

Dated : 11/30/2021 3:27:18

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ASBESTOS TESTING LABORATORIES

9000 Commerce Parkway Suite B
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CERTIFICATE OF ANALYSIS

Client: Nortech Engineering
5438 Shaune Drive
Juneau AK 99801

Client: NOR543

Report Date: 11/22/2021
Report No.: 647539 - PLM Screen Rev #3, 11/30/2021
Project: RMCI So. Coast Airports Bldg A
Project No.: 21-2502

BULK SAMPLE ANALYSIS SUMMARY

Lab No.: 7316914(L2)
Client No.: L5A-9
Description: Tan Rubber
Facility:
Location: Window on the Right Side of the Building

Percent Asbestos: *None Detected*
Percent Non-Asbestos Fibrous Material: None Detected
Percent Non-Fibrous Material: 100

Please refer to pages 1 through 4 of this report for further information regarding your analysis.

Date Received: 11/12/2021
Date Analyzed: 11/18/2021
Signature:
Analyst: Michael Moore

Approved By:
Frank E. Ehrenfeld, III
Laboratory Director

Dated : 11/30/2021 3:27:18

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Drawn By: SPH
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R&M PROJECT NUMBER: 2658.13

65% DESIGN REVIEW

BY	DATE	REVISION

PLANS DEVELOPED BY:
NORTECH ENGINEERING
CORPORATE NO: AECC682

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION AND PUBLIC FACILITIES
SOUTH COAST REGION

SOUTH COAST REGION STRUCTURE REMOVAL
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DATE: 03/11/2022
SHEET: H2.9

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Client: NOR543

Report Date: 11/22/2021
Report No.: 647539 - PLM Screen
Project: RMCI So. Coast Airports Bldg A
Project No.: 21-2502

Appendix to Analytical Report:

Customer Contact: Jen Stoutamore
Analysis: US EPA 600, R93-116

This appendix seeks to promote greater understanding of any observations, exceptions, special instructions, or circumstances that the laboratory needs to communicate to the client concerning the above samples. The information below is used to help promote your ability to make the most informed decisions for you and your customers. Please note the following points of contact for any questions you may have.
iATL Customer Service: customerservice@iatl.com
iATL Office Manager: cdavis@iatl.com
iATL Account Representative: Semih Kocahasan

Project Summary:

Sample Login Notes: See Batch Sheet Attached
Sample Matrix: Bulk Building Materials
Exceptions Noted: See Following Pages

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iATL warrants the test results to be of a precision normal for the type and methodology employed for each sample submitted. iATL disclaims any other warrants, expressed or implied, including warranty of fitness for a particular purpose and warranty of merchantability. iATL accepts no legal responsibility for the purpose for which the client uses test results. Any analytical work performed must be governed by our Standard Terms and Conditions. Prices, methods and detection limits may be changed without notification. Please contact your Customer Service Representative for the most current information.

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Information Pertinent to this Report:

Analysis by US EPA 600 93-116: Determination of Asbestos in Bulk Building Materials by Polarized Light Microscopy (PLM).

Quantification at <0.25% by volume is possible with this method. (PC) Indicates Stratified Point Count Method performed. (PC-Trace) means that asbestos was detected but is not quantifiable under the Point Counting regimen. Analysis includes all distinct separable layers in accordance with EPA 600 Method. If not reported or otherwise noted, layer is either not present or the client has specifically requested that it not be analyzed (ex. analyze until positive instructions). Small asbestos fibers may be missed by PLM due to resolution limitations of the optical microscope. Therefore, PLM is not consistently reliable in detecting asbestos in non-friable organically bound (NOB) materials. Quantitative transmission electron microscopy (TEM) is currently the only method that can pronounce materials as non-asbestos containing.

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CERTIFICATE OF ANALYSIS

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5438 Shaune Drive
Juneau AK 99801

Client: NOR543

Report Date: 11/22/2021
Report No.: 647539 - PLM Screen
Project: RMCI So. Coast Airports Bldg A
Project No.: 21-2502

Analytical Methodology Alternatives: Your initial request for analysis may not have accounted for recent advances in regulatory requirements or advances in technology that are routinely used in similar situations for other qualified projects. You may have the option to explore additional analysis for further information. Below are a few options, listed as the matrix followed by the appropriate methodology. Also included are links to more information on our website.

Bulk Building Materials that are Non-Friable Organically Bound (NOB) by Gravimetric Reduction techniques employing PLM and TEM: ELAP 198.6 (PLM-NOB), ELAP 198.4 (TEM-NOB)

Loose Fill Vermiculite Insulation, Attic Insulation, Zonolite (copyright), etc.: US EPA 600 R-4/004 (multi-tiered analytical process)
Sprayed On Insulation/Fireproofing with Vermiculite (SOF-V): ELAP 198.8 (PLM-SOF-V)

Soil, sludge, sediment, aggregate, and like materials analyzed for asbestos or other elongated mineral particles (ex. erionite, etc.): ASTM D7521, CARB 435, and other options available

Asbestos in Surface Dust according to one of ASTM's Methods (very dependent on sampling collection technique – by TEM): ASTM D 5755, D5756, or D6480

Various other asbestos matrices (air, water, etc.) and analytical methods are available.

Disclaimers / Qualifiers:

There may be some samples in this project that have a "NOTE:" associated with a sample result. We use added disclaimers or qualifiers to inform the client about something that requires further explanation. Here is a complete list with highlighted disclaimers pertinent to this project. For a full explanation of these and other disclaimers, please inquire at **customerservice@iatl.com**.

1) Note: No mastic provided for analysis.
2) Note: Insufficient mastic provided for analysis.
3) Note: Insufficient material provided for analysis.
4) Note: Insufficient sample provided for QC reanalysis.
5) Note: Different material than indicated on Sample Log / Description.
6) Note: Sample not submitted.
7) Note: Attached to asbestos containing material.
8) Note: Received wet.
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10) Note: Not building material. 1% threshold may not apply.
11) Note: Recommend TEM-NOB analysis as per EPA recommendations.
12) Note: Asbestos detected but not quantifiable.
13) Note: Multiple identical samples submitted, only one analyzed.
14) Note: Analyzed by EPA 600/R-93/116. Point Counting detection limit at 0.080%.
15) Note: Analyzed by EPA 600/R-93/116. Point Counting detection limit at 0.125%.

Recommendations for Vermiculite Analysis:

Several analytical protocols exist for the analysis of asbestos in vermiculite. These analytical approaches vary depending upon the nature of the vermiculite mineral being tested (e.g. un-processed gange, homogeneous exfoliated books of mica, or mixed mineral composites).

Designed By: PLB
Drawn By: SPH
Checked By: PLB

Date Revised: 3/14/2022
Layout Name: H2.10
File Path & Name: C:\Users\sean.heaney\NORTECH, Inc\21-2502 J - RMCI So. Coast Airports Bldg Assets - Documents\30-Kodiak Buildings\Drawings\21202(60).dwg

R&M PROJECT NUMBER: 2658.13

65% DESIGN REVIEW

PLANS DEVELOPED BY:
NORTECH ENGINEERING
CORPORATE NO: AECC682

BY	DATE	REVISION

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION AND PUBLIC FACILITIES
SOUTH COAST REGION

SOUTH COAST REGION STRUCTURE REMOVAL
KODIAK AIRPORT BUILDING REMOVALS
LOT 5A & LOT 3, BLOCK 1400, KODIAK AIRPORT
PROJECT No. TBD
LABORATORY REPORT

DATE: 03/11/2022
SHEET: H2.10

IATL INTERNATIONAL
ASBESTOS TESTING LABORATORIES

9000 Commerce Parkway Suite B
Mt. Laurel, New Jersey 08054
Telephone: 856-231-9449
Email: customerservice@iatl.com

CERTIFICATE OF ANALYSIS

Client: Nortech Engineering
5438 Shaune Drive
Juneau AK 99801

Client: NOR543

Report Date: 11/22/2021
Report No.: 647539 - PLM Screen
Project: RMCI So. Coast Airports Bldg A
Project No.: 21-2502

IATL recommends initial testing using the EPA 600/R-93/116 method. This method is specifically designed for the analysis of asbestos in bulk building materials. It provides an acceptable starting point for primary screening of vermiculite for possible asbestos.

Results from this testing may be inconclusive. EPA suggests proceeding to a multi-tiered analysis involving wet separation techniques in conjunction with PLM and TEM gravimetric analysis (EPA 600/R-04/004).

Further information on this method and other vermiculite and asbestos issues can be found at the following: Agency for Toxic Substances and Disease Registry (ATSDR) www.atsdr.cdc.gov, United States Geological Survey (USGS) www.minerals.usgs.gov/minerals/, US EPA www.epa.gov/asbestos. The USEPA also has an informative brochure "Current Best Practices for Vermiculite Attic Insulation" EPA 747F03001 May 2003, that may assist the health and remediation professional.
The following is a summary of the analytical process outlines in the EPA 600/R-04/004 Method:

1)**Analytical Step/Method:** Initial Screening by PLM, EPA 600R-93/116
Requirements/Comments: Minimum of 0.1 g of sample. ~0.25% LOQ for most samples.
Pricing/Turnaround Time: Please contact your client representative for options available.

2)**Analytical Step/Method:** Wet Separation by PLM Gravimetric Technique, EPA R-04/004
Requirements/Comments: Minimum 50g** of dry sample. Analysis of "Sinks" only.
Pricing/Turnaround Time: Please contact your client representative for options available.

3)**Analytical Step/Method:** Wet Separation by PLM Gravimetric Technique, EPA R-04/004
Requirements/Comments: Minimum 50g** of dry sample. Analysis of "Floats" only.
Pricing/Turnaround Time: Please contact your client representative for options available.

4)**Analytical Step/Method:** Wet Separation by TEM Gravimetric Technique, EPA R-04/004
Requirements/Comments: Minimum 50g** of dry sample. Analysis of "Sinks" only.
Pricing/Turnaround Time: Please contact your client representative for options available.

5)**Analytical Step/Method:** Wet Separation by TEM Gravimetric Technique, EPA R-04/004
Requirements/Comments: Minimum 50g** of dry sample. Analysis of "Suspension" only.
Pricing/Turnaround Time: Please contact your client representative for options available.

LOQ, Limit of Quantitation estimates for mass and volume analyses.
*With advance notice and confirmation by the laboratory.
**Approximately 1 Liter of sample in double-bagged container (~9x6 inch bag of sample).

Dated : 11/30/2021 3:27:18

Designed By:	PJB
Drawn By:	SPH
Checked By:	PJB
Date Revised:	3/14/2022
Layout Name:	H2.11
File Path & Name:	C:\Users\sean.hearey\NORTECH, Inc\21-2502 J - RMCI So. Coast Airports Bldg Assmts - Documents\30-Kodiak Buildings\Drawings\21202(60).dwg

R&M PROJECT NUMBER: 2658.13

65% DESIGN REVIEW

PLANS DEVELOPED BY:
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CORPORATE NO: AECC682

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SHEET: H2.11