Maluhia

Hawaii Health Systems Corporation
1027 Hala Drive
Honolulu, Hawaii 96817

April 23, 2020

TO: Interested Parties

FROM: Scott Kawai
HHSC Oahu Region

SUBJECT: Addendum No. 1
RFP No. HHSC FY 20M-0030
Walk-In Freezer Replacement for Maluhia

Addendum No. 1 provides changes to the subject solicitation.

1. Question: Is it possible for you to take photos of the entire interior area of the existing freezer, the area outside the freezer, especially where the floor tile may be replaced, and the area on the rooftop where the work will be? We will also need a photo of the existing fire alarm system and where the freezer ties into it. Also, if we need to put up any dust screening, we'll need to know where and have photos of those locations.

   Response: The attached Hazardous Material Assessment Report has photos detailing the freezer areas. At this point in time, this is the best photo assessment we can provide.

EnviroQuest

SERVICES

HAZMAT Inspections

Remediation Design

Asbestos Management

Lead Management

Lead Risk Assessment

Industrial Hygiene

Indoor Air Quality

Mold Assessment

Environmental Site Assessments

Subsurface Investigation

Water Sampling

Asbestos Training

Lead Training

OSHA Training

OSHA Compliance

INSPECTION REPORT FOR ASBESTOS AND LEAD-BASED PAINT

MALUHIA NURSING HOME
WALK-IN FREEZER REPLACEMENT

EnviroQuest Project: 19453

March 2020

Prepared for:

Interface Engineering, Inc.
1132 Bishop Street, Suite 1930
Honolulu, Hawaii 96813

Prepared by:

EnviroQuest, Inc.
98-029 Hekaha Street, Suite 21
Aiea, Hawaii 96701
808.486.5881

Jessie Sacramento
HIASB-0173
PB-0070

Jim Cardenas
HIASB0173

TABLE OF CONTENTS

Table of Contents

TABLES

APPENDICES

1 INTRODUCTION

A limited hazardous building material survey (HBMS) was conducted on March 4, 2020 at Maluhia Nursing Home located at 1027 Hala Drive, Honolulu, Hawaii.

The purpose of the activities under this project was to perform a limited inspection of the area prior to its renovation and to identify asbestos-containing materials (ACMs) and lead-based paints (LBPs) that may be encountered and that would require special demolition, handling, safety, or other disposal requirements.

1.1 SITE LOCATION

The inspection was limited to the areas affected by the renovation work as shown in the drawings and identified by Interface Engineering, Inc. The listed areas were included in our inspection.

First Floor

- Kitchen; walk-in freezer
- Roof; condensing unit

2 ASBESTOS

Twenty-one samples were collected from suspect asbestos-containing materials.

2.1 METHODOLOGY

A visual inspection for suspect ACM and homogeneous areas (areas that have uniform color, texture, and appearance) was conducted. Suspect materials were divided into three Environmental Protection Agency (EPA) categories:

- Surfacing Materials (sprayed or troweled-on materials)
- Thermal Systems Insulations (materials generally applied to various mechanical systems)
- Miscellaneous Materials (any materials which do not fit in the above categories)

Sampling methodology generally followed the procedures presented in EPA 40 CFR 763 Asbestos and Hawaii Department of Health (HDOH), Hawaii Administrative Rules (HAR) Titles 11-501 *Asbestos Requirements* and 11-502 *Asbestos Containing Materials in Schools*.

2.2 RESULTS

Samples were submitted to SGS Forensic Laboratories (Forensic) in Carson, California, a National Voluntary Laboratory Accreditation Program (NVLAP) accredited laboratory. The samples were analyzed by polarized-light microscopy (PLM), following EPA Method 600/R-93-116, *Visual Area Estimation*. Forensic is also registered to provide asbestos laboratory services in Hawaii under HDOH 11-504 *Asbestos Abatement Certification Program.*

Based on the laboratory analytical results, asbestos was identified in two of the 21 samples. The National Emission Standard for Hazardous Air Pollutants (NESHAP), 40 CFR 61 Part M, defines ACM as those which contain greater than 1% asbestos. NESHAP also categorizes ACM as either being a friable material, a Category I non-friable material or a Category II non-friable material. Friable materials are defined as those that can be reduced to powder by hand pressure. Category I non-friable materials are the asphalt roofing materials, resilient floor covering, excluding linoleum, packings, and gaskets. Category II non-friable materials are the cementitious materials such as stucco and asbestos cement board. In accordance with NESHAP requirements, samples consisting of distinct layers of materials were analyzed and reported separately by the laboratory. NESHAP also states that if asbestos is identified in amounts less than 10%, the owner or operator of the building must elect to assume the amount to be greater than 1% and treat the material as asbestos-containing material or request verification of the amount by point counting. No samples were point counted for this report. Refer to the accompanying appendices for laboratory analytical results and photographs.

3 LEAD

Six paint film samples were collected from painted or coated materials.

3.1 METHODOLOGY

A visual inspection for painted or coated building surfaces was conducted. Sampling methodology generally followed the procedures presented in the U.S. Department of Housing and Urban Development's document *Guidelines for the Evaluation and Control of Lead-Based Paint Hazards in Housing* and EPA 40 CFR 745 *Lead-Based Paint Poisoning Prevention in Certain Residential Structures.*

3.2 RESULTS

Samples were submitted to SGS Forensic Laboratories. The samples were analyzed in accordance with EPA Method 3050/7000B *Flame Atomic Absorption Spectrophotometry* (AAS). Forensic is accredited for lead analysis through successful participation in the American Industrial Hygiene Association's Environmental Lead Laboratory Accreditation Program.

Based on the paint film analysis, lead in paint concentrations did not exceed the EPA guideline for LBP of 0.5% lead by weight. EPA defines lead-based paint as paint or other surface coatings that contain lead equal to or more than 0.5% by weight. However, lead at concentrations below the EPA guidelines was detected. These paints have a lead concentration of less than 0.5% by weight and are identified as lead-containing paint (LCP).

Prior to the disturbance of any paints, the contractor's employees disturbing the painted material must be informed that it contains lead and must have received training under Occupational Safety and Health Administration (OSHA) 29 CFR 1926.62 *Lead*. If any untested paints are disturbed, they should be assumed to contain lead.

If lead paint debris is generated during any disturbance activity, a composite sample should be collected for *Toxicity Characteristic Leaching Procedure* (TCLP) lead analysis for waste disposal characterization. HDOH 11-261, *Hazardous Waste Management,* allows a maximum lead concentration of 5.0 mg/L. TCLP results exceeding this threshold requires disposal as hazardous waste. Note that painted metal components are exempt from TCLP testing if recycled. Refer to the accompanying appendices for laboratory results and photographs.

4 SUMMARY

4.1 ASBESTOS

The listed materials were identified as asbestos-containing materials.

Material	Location	Condition
Beige mortar behind the ceramic wall tile and grout	Kitchen; wall adjacent to the walk-in freezer	Good
Black tar with silver paint	Roof pad and condensing unit pipe penetration sealant	Good

The ACM was found to be in good condition and no immediate abatement action is necessary. However, due to the likelihood of disturbance during the renovation, the material must be removed prior to the renovation activity. All removal must be completed by a certified asbestos abatement contractor under controlled conditions in accordance with EPA and Hawaii Department of Health (HDOH) regulations. Work should also be monitored by an independent industrial hygiene professional.

4.2 LEAD

Lead-based paint was not identified in this inspection. However, lead at concentrations below the EPA guidelines was detected. These paints have a lead concentration of less than 0.5% by weight and are identified as lead-containing paint (LCP).

Prior to the disturbance of any paints, the contractor's employees disturbing the painted material must be informed that it contains lead and must have received training under Occupational Safety and Health Administration (OSHA) 29 CFR 1926.62 *Lead*. If any untested paints are disturbed, they should be assumed to contain lead.

5 LIMITATIONS

The information set forth is based solely on the agreed upon scope of services, on personal observation, laboratory data, and information provided by Interface Engineering, Inc.

Although this inspection provides information on the relative presence or absence of asbestos-containing materials and lead-based paint, it should not be construed as a final statement that all hazardous materials have been identified.

Given the often obscure and elusive nature of hazardous materials, it is never possible to absolutely dismiss the possibility of additional hazardous materials. EnviroQuest, Inc. expressly disclaims any and all liability, representations, expressed or implied, contained in, or for omission from this report, or any other written or oral communication which might be interpreted as establishing the total extent of all liability present at the subject property.

Our services have been performed with usual thoroughness and competence of the consulting profession, in accordance with the standard of professional services at this time. No other warranty or representation, either expressed or implied is included or intended.

Any question regarding our work and this report, the presentation of the information, and the interpretation of the data are welcome and should be referred to the undersigned. EQI greatly appreciates this opportunity to assist you with your industrial hygiene needs. We look forward to working with you again in the future.

TABLE 1: ASBESTOS HOMOGENOUS MATERIAL SUMMARY
MALUHIA NURSING HOME
WALK-IN FREEZER REPLACEMENT

Homogenous Material	ACM[1] (Y/N)	Location	Sample ID	Friable (Y/N)	Est Qty (ACM)	Condition[2]	Photo No.
First Floor							
Red 6”x6” quarry floor tile and grout/ mortar	N	Kitchen and adjacent walk-in freezer	19453-01A 19453-01B 19453-01C	N	-	G	1
Silver foil/paper cover and red fiberglass	N	Freezer adjacent wall and ceiling	19453-02A 19453-02B 19453-02C	Y	-	G	2
Beige painted plaster wall	N	Freezer adjacent east wall	19453-03A 19453-03B 19453-03C	N	-	G	3
Gray caulking	N	Freezer joint sealant	19453-04A 19453-04B 19453-04C	N	-	G	4
Glazed white 4”x4” ceramic wall tile and grout/ mortar	Y (mortar)[3]	Kitchen wall adjacent to the freezer	19453-05A 19453-05B 19453-05C	N	~100 ft^2	G	5
Roof							
Black foam and adhesive	N	Pipe run insulation adjacent to the condensing unit	19453-06A 19453-06B 19453-06C	N	-	G	6
Beige elastomeric paint coating and black tar	Y (black tar/ silver paint)	Roof pad and pipe penetration patch/ sealant	19453-07A 19453-07B 19453-07C	N	~50 ft^2	G	7

1. ACM=>1% asbestos content
2. Good (G); Damaged (D) <10% distributed or 25% localized; Significant Damage (SD), >10% distributed or 25% localized
3. Treat as ACM unless verified by point count

TABLE 2: LEAD PAINT SUMMARY BY AAS
MALUHIA NURSING HOME
WALK-IN FREEZER REPLACEMENT

Paint Color	Int/Ext	Paint Location	Sample ID	Result (wt%)	LBP[1] (Y/N)	LCP[2] (Y/N)	Condition[3,4]	Photo No.
Red	Int	First floor; kitchen quarry floor tile	19453-01P	<0.0006	N	N	Intact	8
Beige	Int	First floor; plaster wall adjacent to the freezer	19453-02P	<0.006	N	N	Intact	9
White	Int	First floor; freezer wood frame	19453-03P	<0.006	N	N	Intact	10
Glazed white	Int	First floor; kitchen ceramic wall tile adjacent to the freezer	19453-04P	0.095	N	Y	Intact	5
Beige	Ext	Roof; elastomeric paint coating	19453-05P	<0.002	N	N	Intact	11
Beige over tan	Ext	Exterior concrete wall	19453-06P	0.093	N	Y	Intact	12

1. LBP = >0.5% lead by weight
2. LCP = >laboratory detection limit but <0.5%
3. Exterior: Intact – Entire surface is intact; Fair - ≤ 10ft^2; Poor - >10 ft^2
4. Interior: Intact – Entire surface is intact; Fair - ≤ 2ft^2 or ≤ 10%; Poor - >2 ft^2 or >10%

EnviroQuest

APPENDIX A

REFERENCE PHOTOGRAPHS

Photo 1: Non asbestos-containing red quarry floor tile and grout/ mortar adjacent to the freezer.

Photo 2: Non asbestos-containing silver foil/paper cover and red fiberglass wall insulation adjacent to the freezer.

Photo 3. Non asbestos-containing beige plaster wall adjacent to the freezer.

Photo 4: Non asbestos-containing gray caulking on freezer joint sealant.

Photo 5: Asbestos-containing mortar behind to the non asbestos-containing glazed white ceramic wall tile and grout adjacent to the walk-in freezer. Non lead-based glazed white ceramic coating.

Photo 6: Non asbestos-containing black foam and adhesive pipe insulation connecting the condensing unit.

EnviroQuest

PHOTOGRAPHIC LOG

Maluhia Nursing Home
Walk-in Closet Replacement

Photo 7: Asbestos-containing black tar/silver paint on the roof pad and pipe penetration sealant.

Photo 8: Kitchen red quarry floor tile.
Non lead-based glazed red coating.

Photo 9: Plaster wall adjacent to the freezer.
Non lead-based beige paint.

Photo 10: Wood door frame.
Non lead-based white paint.

Photo 11: Roof.
Non lead-based beige elastomeric paint/ coating.

Photo 11: Concrete exterior wall.
Non lead-based beige over tan paint.

EnviroQuest

PHOTOGRAPHIC LOG

Maluhia Nursing Home
Walk-in Closet Replacement

EnviroQuest

APPENDIX B

LABORATORY ANALYTICAL REPORTS

SGS FORENSIC LABORATORIES

Final Report

Bulk Asbestos Analysis

(EPA Method 40CFR, Part 763, Appendix E to Subpart E and EPA 600/R-93-116, Visual Area Estimation)
NVLAP Lab Code: 101459-1

EnviroQuest, Inc.
Steve Tanaka
98-029 Hekaha Street
Suite 21
Aiea, HI 96701

Client ID: 7104
Report Number: B301356
Date Received: 03/06/20
Date Analyzed: 03/11/20
Date Printed: 03/11/20
First Reported: 03/11/20

Job ID/Site: 19453; Maluhia Walk-In Closet

Date(s) Collected: 03/04/2020

SGSFL Job ID: 7104
Total Samples Submitted: 21
Total Samples Analyzed: 19

Sample ID	Lab Number	Asbestos Type	Percent in Layer	Asbestos Type	Percent in Layer	Asbestos Type	Percent in Layer
19453-01A	51333002						
Layer: Red Cementitious Material			**ND**				
Layer: Grey Cementitious Material			**ND**				
Total Composite Values of Fibrous Components: Cellulose (Trace)		**Asbestos (ND)**					
19453-01B	51333003						
Layer: Red Cementitious Material			**ND**				
Layer: Grey Cementitious Material			**ND**				
Total Composite Values of Fibrous Components: Cellulose (Trace)		**Asbestos (ND)**					
19453-01C	51333004						
Layer: Pink Cementitious Material			**ND**				
Layer: Grey Cementitious Material			**ND**				
Total Composite Values of Fibrous Components: Cellulose (Trace)		**Asbestos (ND)**					
19453-02A	51333005						
Layer: Pink Fibrous Material			**ND**				
Layer: Tan Fibrous Material with Foil			**ND**				
Total Composite Values of Fibrous Components: Cellulose (Trace) Fibrous Glass (95 %)		**Asbestos (ND)**					
19453-02B	51333006						
Layer: Pink Fibrous Material			**ND**				
Layer: Tan Fibrous Material with Foil			**ND**				
Total Composite Values of Fibrous Components: Cellulose (Trace) Fibrous Glass (95 %)		**Asbestos (ND)**					
19453-02C	51333007						
Layer: Pink Fibrous Material			**ND**				
Layer: Tan Fibrous Material with Foil			**ND**				
Total Composite Values of Fibrous Components: Cellulose (2 %) Fibrous Glass (95 %)		**Asbestos (ND)**					

20535 South Belshaw Avenue, Carson, CA 90746 / Telephone: (310) 763-2374 (888) 813-9417 / Fax: (310) 763-4450

Report Number: B301356
Client Name: EnviroQuest, Inc. **Date Printed:** 03/11/20

Sample ID	Lab Number	Asbestos Type	Percent in Layer	Asbestos Type	Percent in Layer	Asbestos Type	Percent in Layer
19453-03A	51333008						
Layer: Grey Cementitious Material			**ND**				
Layer: Paints/Silver Paint			**ND**				
Layer: White Non-Fibrous Material			**ND**				
Layer: Paint			**ND**				
Total Composite Values of Fibrous Components: Cellulose (Trace)		**Asbestos (ND)**					
19453-03B	51333009						
Layer: Grey Cementitious Material			**ND**				
Layer: Paints/Silver Paint			**ND**				
Total Composite Values of Fibrous Components: Cellulose (Trace)		**Asbestos (ND)**					
19453-03C	51333010						
Layer: Grey Cementitious Material			**ND**				
Layer: Paints/Silver Paint			**ND**				
Total Composite Values of Fibrous Components: Cellulose (Trace)		**Asbestos (ND)**					
19453-04A	51333011						
Layer: Silver Non-Fibrous Material			**ND**				
Total Composite Values of Fibrous Components: Cellulose (Trace)		**Asbestos (ND)**					
19453-04B	51333012						
Layer: Blue Non-Fibrous Material			**ND**				
Layer: Grey Non-Fibrous Material			**ND**				
Total Composite Values of Fibrous Components: Cellulose (Trace)		**Asbestos (ND)**					
19453-04C	51333013						
Layer: Blue Non-Fibrous Material			**ND**				
Layer: Grey Non-Fibrous Material			**ND**				
Total Composite Values of Fibrous Components: Cellulose (Trace)		**Asbestos (ND)**					
19453-05A	51333014						
Layer: White Ceramic Tile			**ND**				
Layer: White Non-Fibrous Material			**ND**				
Layer: Pink Cementitious Material			**ND**				
Layer: Paint			**ND**				
Layer: Off-White Non-Fibrous Material			**ND**				
Total Composite Values of Fibrous Components: Cellulose (Trace)		**Asbestos (ND)**					
19453-05B	51333015						
Layer: White Ceramic Tile			**ND**				
Layer: Grey Mortar			**ND**				
Total Composite Values of Fibrous Components: Cellulose (Trace)		**Asbestos (ND)**					

20535 South Belshaw Avenue, Carson, CA 90746 / Telephone: (310) 763-2374 (888) 813-9417 / Fax: (310) 763-4450

Report Number: B301356
Client Name: EnviroQuest, Inc. **Date Printed:** 03/11/20

Sample ID	Lab Number	Asbestos Type	Percent in Layer	Asbestos Type	Percent in Layer	Asbestos Type	Percent in Layer
19453-05C	51333016						
Layer: White Ceramic Tile			**ND**				
Layer: Grey Mortar			**ND**				
Layer: Beige Non-Fibrous Material		Actinolite	**Trace**				
Total Composite Values of Fibrous Components: Cellulose (Trace)		**Asbestos (Trace)**					
Comment: This comment applies to the Beige Non-Fibrous Material only: Insufficient material for additional analyses.							
19453-06A	51333017						
Layer: Black Foam with Debris			**ND**				
Total Composite Values of Fibrous Components: Cellulose (Trace)		**Asbestos (ND)**					
19453-06B	51333018						
Layer: Black Foam with Debris			**ND**				
Total Composite Values of Fibrous Components: Cellulose (Trace)		**Asbestos (ND)**					
19453-06C	51333019						
Layer: Black Foam with Debris			**ND**				
Total Composite Values of Fibrous Components: Cellulose (Trace)		**Asbestos (ND)**					
19453-07A	51333020						
Layer: White Non-Fibrous Material			**ND**				
Layer: Black Semi-Fibrous Tar w/Silver Paint		Chrysotile	**5 %**				
Layer: Black Tar			**ND**				
Total Composite Values of Fibrous Components: Cellulose (Trace)		**Asbestos (3%)**					
19453-07B	51333021						
Comment: Sample not analyzed due to prior positive result in series.							
19453-07C	51333022						
Comment: Sample not analyzed due to prior positive result in series.							

Tiffani Ludd, Laboratory Supervisor, Carson Laboratory

Note: Limit of Quantification ('LOQ') = 1%. 'Trace' denotes the presence of asbestos below the LOQ. 'ND' = 'None Detected'.

20535 South Belshaw Avenue, Carson, CA 90746 / Telephone: (310) 763-2374 (888) 813-9417 / Fax: (310) 763-4450

EnviroQuest

PLM DATA SHEET

Project No.: 19453 Project Name: MALUHIA WALK-IN CLOSET Date: 3/4/20

Page: 1 of 3

Material Description: Red 6"x6" quarry floor tile & grout/mortar — Friable / ~~Non-friable~~ — ~~Asb. Type~~

Sample No.	Location
19453-01A -01B -01C	1ST FLOOR; kitchen floor adjacent to the freezer #1

CONDITION:	% Damaged: 26	% Localized:	% Distributed:	Total Material Quantity:

Surfacing Material		TSI		Misc.	
☐ Sig. Damage	% Crumbling -	☐ Sig. Damage	% Gouge/Punct -	☒ Sig. Damage	% Crumbling -
☐ Damaged	% Delaminating -	☐ Damaged	% Crushed -	☐ Damaged	% Delaminating -
☐ Good Cond.	% H_2O/Gouges -	☐ Good Cond.	% H_2O Stains -	☑ Good Cond.	% H_2O/Gouges-

Contact Potential	☐ High	☐ Moderate	☑ Low
Vibration Potential	☐ High	☐ Moderate	☑ Low
Air Erosion	☐ High	☐ Moderate	☑ Low
OVERALL POTENTIAL RATING	☐ Significant Damage	☐ Damage	☑ Minimal Damage

Material Description: Silver foil/paper wrap & red fiberglass — Friable / Non-friable

Sample No.	Location
19453-02A -02B -02C	1ST floor; Freezer #1 adjacent wall

CONDITION:	% Damaged:	% Localized:	% Distributed:	Total Material Quantity:

Surfacing Material		TSI		Misc.	
☐ Sig. Damage	% Crumbling -	☐ Sig. Damage	% Gouge/Punct -	☐ Sig. Damage	% Crumbling -
☐ Damaged	% Delaminating -	☐ Damaged	% Crushed -	☐ Damaged	% Delaminating -
☐ Good Cond.	% H_2O/Gouges -	☐ Good Cond.	% H_2O Stains -	☑ Good Cond.	% H_2O/Gouges-

Contact Potential	☐ High	☐ Moderate	☑ Low
Vibration Potential	☐ High	☐ Moderate	☑ Low
Air Erosion	☐ High	☐ Moderate	☑ Low
OVERALL POTENTIAL RATING	☐ Significant Damage	☐ Damage	☑ Minimal Damage

Sampled By: J. Sacramento, J. Cardenas *DOH Cert No: HIASB – 0173/ 0175*	Relinquished By/Date/Time: 3/5/20	Relinquished By/Date/Time:
Delivered to Lab By:	Received By/Date/Time: 3-6-20 9149a	Received By/Date/Time:

TURNAROUND TIME: ☐ < 12 Hours ☐ 24 Hours ☒ 3 Days ☐ 5 Days ☐ _____

Surfacing	<1,000 ft² = 3 Samples	1,000 – 5,000 ft² = 5 Samples	>5,000 ft² = 7 Samples
TSI	Minimum of 3 Samples UNLESS....	<6 In. or ft² = 1 Sample	Minimum of 2 Samples *(Cement/plaster valves, elbows & 'T')*
Misc. Non-Friable	Minimum of 2 Samples (*AHERA*)	Minimum of 3 Samples (*Hawaii*)	
Misc. Friable	Minimum of 2 Samples		

Surfacing	Sig. Damage = *> 10% Dist. or 25% Local*	Damaged = *< 10% Dist. or 25% Local*	*Good = Very Limited Damage*
TSI	Sig. Damage = *>10% Missing Jacket OR >10% Dist. or 25% Local*	Damaged = *< 10% Missing Jacket OR < 10% Dist. or 25% Local*	Good = *Very Limited Damage*
Misc	Sig. Damage = *> 10% Dist. or 25% Local*	Damaged = *< 10% Dist. or 25% Local*	*Good = Very Limited Damage*

EnviroQuest

PLM DATA SHEET

Project No.: 19453 Project Name: MALUHIA WALK-IN CLOSET Date: 3/4/20

Page: 2 of 3

Material Description: Beige painted plaster wall — Friable / ~~Non-friable~~

Sample No.	Location	Asb. Type
19453-03A -03B -03C	1ST FLOOR; Freezer #1 / kitchen wall	

CONDITION: % Damaged: % Localized: % Distributed: Total Material Quantity:

Surfacing Material		TSI		Misc.	
☐ Sig. Damage	% Crumbling -	☐ Sig. Damage	% Gouge/Punct -	☐ Sig. Damage	% Crumbling -
☐ Damaged	% Delaminating -	☐ Damaged	% Crushed -	☐ Damaged	% Delaminating -
☐ Good Cond.	% H_2O/Gouges -	☐ Good Cond.	% H_2O Stains -	☑ Good Cond.	% H_2O/Gouges-

Contact Potential	☐ High	☐ Moderate	☑ Low
Vibration Potential	☐ High	☐ Moderate	☑ Low
Air Erosion	☐ High	☐ Moderate	☑ Low
OVERALL POTENTIAL RATING	☐ Significant Damage	☐ Damage	☑ Minimal Damage

Material Description: Gray caulking wall — Friable / Non-friable

Sample No.	Location	Asb. Type
19453-04A -04B -04C	1ST FLOOR; Freezer #1 joint sealant	

CONDITION: % Damaged: % Localized: % Distributed: Total Material Quantity:

Surfacing Material		TSI		Misc.	
☐ Sig. Damage	% Crumbling -	☐ Sig. Damage	% Gouge/Punct -	☐ Sig. Damage	% Crumbling -
☐ Damaged	% Delaminating -	☐ Damaged	% Crushed -	☐ Damaged	% Delaminating -
☐ Good Cond.	% H_2O/Gouges -	☐ Good Cond.	% H_2O Stains -	☑ Good Cond.	% H_2O/Gouges-

Contact Potential	☐ High	☐ Moderate	☑ Low
Vibration Potential	☐ High	☐ Moderate	☑ Low
Air Erosion	☐ High	☐ Moderate	☑ Low
OVERALL POTENTIAL RATING	☐ Significant Damage	☐ Damage	☑ Minimal Damage

Material Description: Glazed white 4"x4" ceramic wall tile & grout / mortar — Friable / Non-friable

Sample No.	Location	Asb. Type
19453-05A -05B -05C	1ST FLOOR: kitchen wall adjacent to freezer #1	

CONDITION: % Damaged: % Localized: % Distributed: Total Material Quantity:

Surfacing Material		TSI		Misc.	
☐ Sig. Damage	% Crumbling -	☐ Sig. Damage	% Gouge/Punct -	☐ Sig. Damage	% Crumbling -
☐ Damaged	% Delaminating -	☐ Damaged	% Crushed -	☐ Damaged	% Delaminating -
☐ Good Cond.	% H_2O/Gouges -	☐ Good Cond.	% H_2O Stains -	☑ Good Cond.	% H_2O/Gouges-

Contact Potential	☐ High	☐ Moderate	☑ Low
Vibration Potential	☐ High	☐ Moderate	☑ Low
Air Erosion	☐ High	☐ Moderate	☑ Low
OVERALL POTENTIAL RATING	☐ Significant Damage	☐ Damage	☑ Minimal Damage

98-029 HEKAHA STREET, SUITE 21 AIEA, HAWAII 96701 PHONE: (808) 486-5881
6-15-17 KAMITSURUMA, MINAMI-KU, SAGAMIHARA-SHI, KANAGAWA-KEN 252-0302 PHONE: (042) 851-5675

EnviroQuest

PLM DATA SHEET

Project No.: 19453 Project Name: MALUHIA WALK-IN CLOSET Date: 3/4/20

Material Description: Black pipe insulation — Friable / Non-friable (circled) / Asb. Type

Sample No.	Location
19453-06A	ROOF ; pipe run insulation adjacent / connected to the condensing unit
-06B	
-06C	

CONDITION: % Damaged: % Localized: % Distributed: Total Material Quantity:

Surfacing Material		TSI		Misc.	
☐ Sig. Damage	% Crumbling -	☑ Sig. Damage	% Gouge/Punct -	☐ Sig. Damage	% Crumbling -
☐ Damaged	% Delaminating -	☐ Damaged	% Crushed -	☐ Damaged	% Delaminating -
☐ Good Cond.	% H_2O/Gouges -	☐ Good Cond.	% H_2O Stains -	☐ Good Cond.	% H_2O/Gouges-

Contact Potential	☐ High	☐ Moderate	☑ Low
Vibration Potential	☐ High	☐ Moderate	☑ Low
Air Erosion	☐ High	☐ Moderate	☑ Low
OVERALL POTENTIAL RATING	☐ Significant Damage	☐ Damage	☑ Minimal Damage

Material Description: Beige elastomeric paint coating / black tar — Friable / Non-friable (circled) / Asb. Type

Sample No.	Location
19453-07A	ROOF ; Condensing unit = roof
-07B	Pipe penetration sealant / patch.
-07C	

CONDITION: % Damaged: % Localized: % Distributed: Total Material Quantity: 1

Surfacing Material		TSI		Misc.	
☐ Sig. Damage	% Crumbling -	☐ Sig. Damage	% Gouge/Punct -	☐ Sig. Damage	% Crumbling -
☐ Damaged	% Delaminating -	☐ Damaged	% Crushed -	☐ Damaged	% Delaminating -
☐ Good Cond.	% H_2O/Gouges -	☐ Good Cond.	% H_2O Stains -	☑ Good Cond.	% H_2O/Gouges-

Contact Potential	☐ High	☐ Moderate	☑ Low
Vibration Potential	☐ High	☐ Moderate	☑ Low
Air Erosion	☐ High	☐ Moderate	☑ Low
OVERALL POTENTIAL RATING	☐ Significant Damage	☐ Damage	☑ Minimal Damage

Material Description: — Friable / Non-friable / Asb. Type

Sample No.	Location

CONDITION: % Damaged: % Localized: % Distributed: Total Material Quantity:

Surfacing Material		TSI		Misc.	
☐ Sig. Damage	% Crumbling -	☐ Sig. Damage	% Gouge/Punct -	☐ Sig. Damage	% Crumbling -
☐ Damaged	% Delaminating -	☐ Damaged	% Crushed -	☐ Damaged	% Delaminating -
☐ Good Cond.	% H_2O/Gouges -	☐ Good Cond.	% H_2O Stains -	☐ Good Cond.	% H_2O/Gouges-

Contact Potential	☐ High	☐ Moderate	☐ Low
Vibration Potential	☐ High	☐ Moderate	☐ Low
Air Erosion	☐ High	☐ Moderate	☐ Low
OVERALL POTENTIAL RATING	☐ Significant Damage	☐ Damage	☐ Minimal Damage

SGS FORENSIC LABORATORIES

Metals Analysis of Paints

(AIHA-LAP, LLC Accreditation, Lab ID #101629)

EnviroQuest, Inc.
Steve Tanaka
98-029 Hekaha Street
Suite 21
Aiea, HI 96701

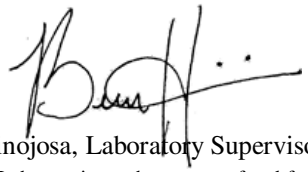
Client ID: 7104
Report Number: M223407
Date Received: 03/06/20
Date Analyzed: 03/11/20
Date Printed: 03/11/20
First Reported: 03/11/20

Job ID / Site: 19453; Maluhia Walk-In Closet
Date(s) Collected: 03/04/20

SGSFL Job ID: 7104
Total Samples Submitted: 6
Total Samples Analyzed: 6

Sample Number	Lab Number	Analyte	Result	Result Units	Reporting Limit*	Method Reference
19453-01P	LM187960	Pb	< 0.0006	wt%	0.0006	EPA 3050B/7000B
19453-02P	LM187961	Pb	< 0.006	wt%	0.006	EPA 3050B/7000B
19453-03P	LM187962	Pb	< 0.006	wt%	0.006	EPA 3050B/7000B
19453-04P	LM187963	Pb	0.095	wt%	0.006	EPA 3050B/7000B
19453-05P	LM187964	Pb	< 0.002	wt%	0.002	EPA 3050B/7000B
19453-06P	LM187965	Pb	0.093	wt%	0.006	EPA 3050B/7000B

* The Reporting Limit represents the lowest amount of analyte that the laboratory can confidently detect in the sample, and is not a regulatory level. The Units for the Reporting Limit are the same as the Units for the Final Results.



Beatriz Hinojosa, Laboratory Supervisor, Carson Laboratory

20535 South Belshaw Avenue, Carson, CA 90746 / Telephone: (310) 763-2374 (888) 813-9417 / Fax: (310) 763-4450

EnviroQuest

MISCELLANEOUS BULK DATA SHEET

Project Name: MALUHIA WALK-IN CLOSET

Page: 1/1
Date: 3/04/20
Project No.: 19453

Location:

Turnaround Time: ☐<12 Hrs ☐24 Hrs ☐48 Hrs ☒3 Days ☐5 Days ☐Other:

Analysis:
- ☐TCLP Lead
- ☐TCLP RCRA 8
- ☒Total Lead
- ☐Micro ID (spore)
- ☐ _____
- ☐ _____

Sampling Media:
- ☐Bulk ☐Tape ☐Wipe
- ☐Soil ☐Vacuum ☐ _____
- ☐Swab ☐Water ☐ _____

	Sample #	Building	Int/ Ext	Flr.	Room	Component	Substrate	Color	% of Waste Stream	Area / Vol	Result
1	19453-01P		INT			Floor	Quarry tile	Red			
	1ST Floor ; Freezer #1 ; adjacent kitchen										
2	19453-02P		INT			Wall	Plaster/concrete	Beige			
	1ST FLOOR ; Freezer #1 adjacent wall										
3	19453-03P					Door frame	wood	White			
	1ST Floor ; Freezer #1 adjacent kitchen door										
4	19453-04P					Wall wainscoat	Ceramic Glazed	white			
	1ST Floor ; Freezer #1 adjacent kitchen wall										
5	19453-05P					Roof/pad	Concrete	Beige			
	Roof elastomeric paint/coating										
6	19453-06P					wall	concrete	Beige/tan			
	EXTERIOR Concrete wall										
7											

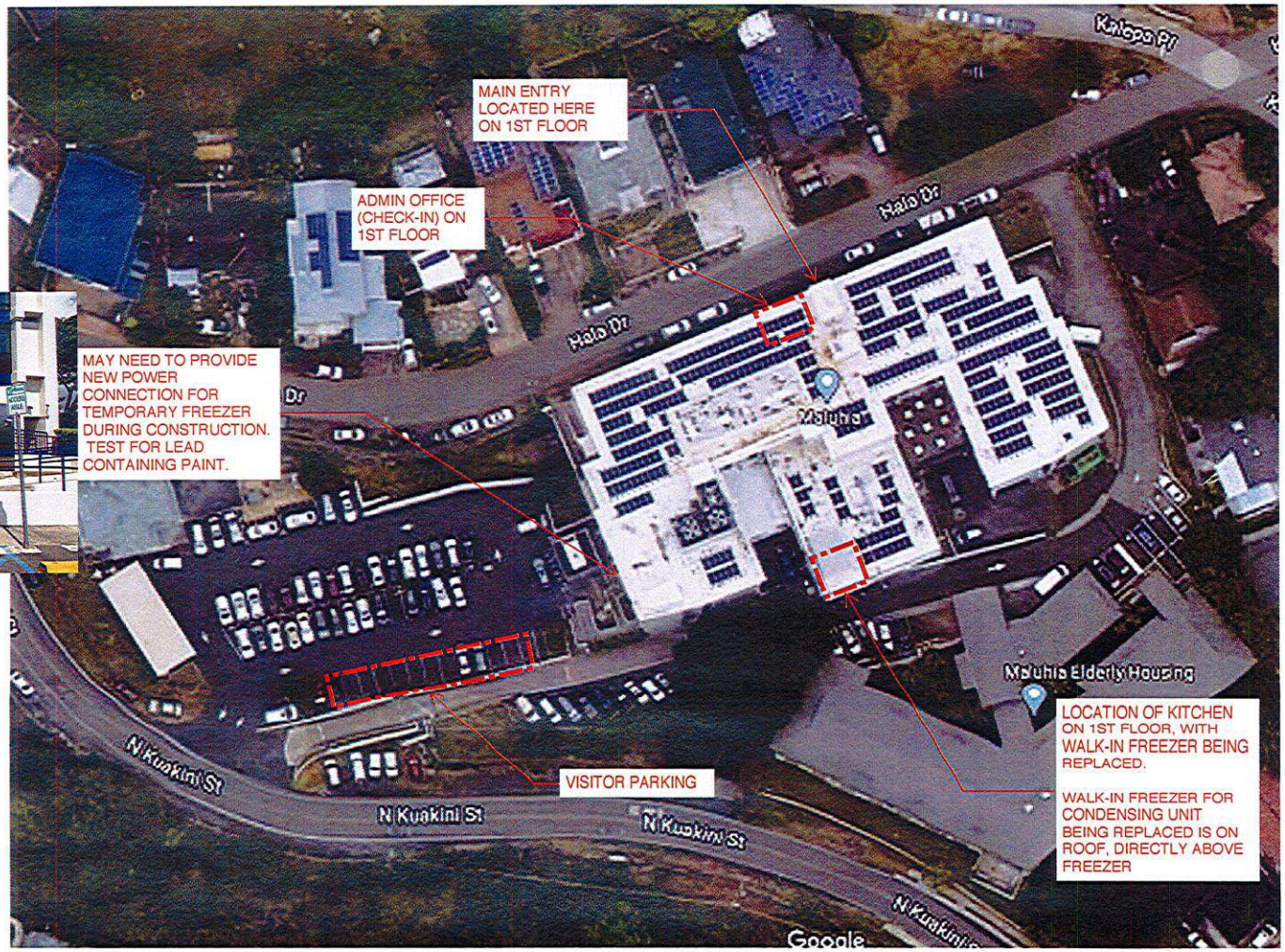
Sampled By: J. SACRAMENTO	Relinquished By/Date/Time	Relinquished By/Date/Time	Analyzed By
Delivered to Lab By:	Received By/Date/Time 3-6-20 Carla Fle 9:49a	Received By/Date/Time	Date Analyzed

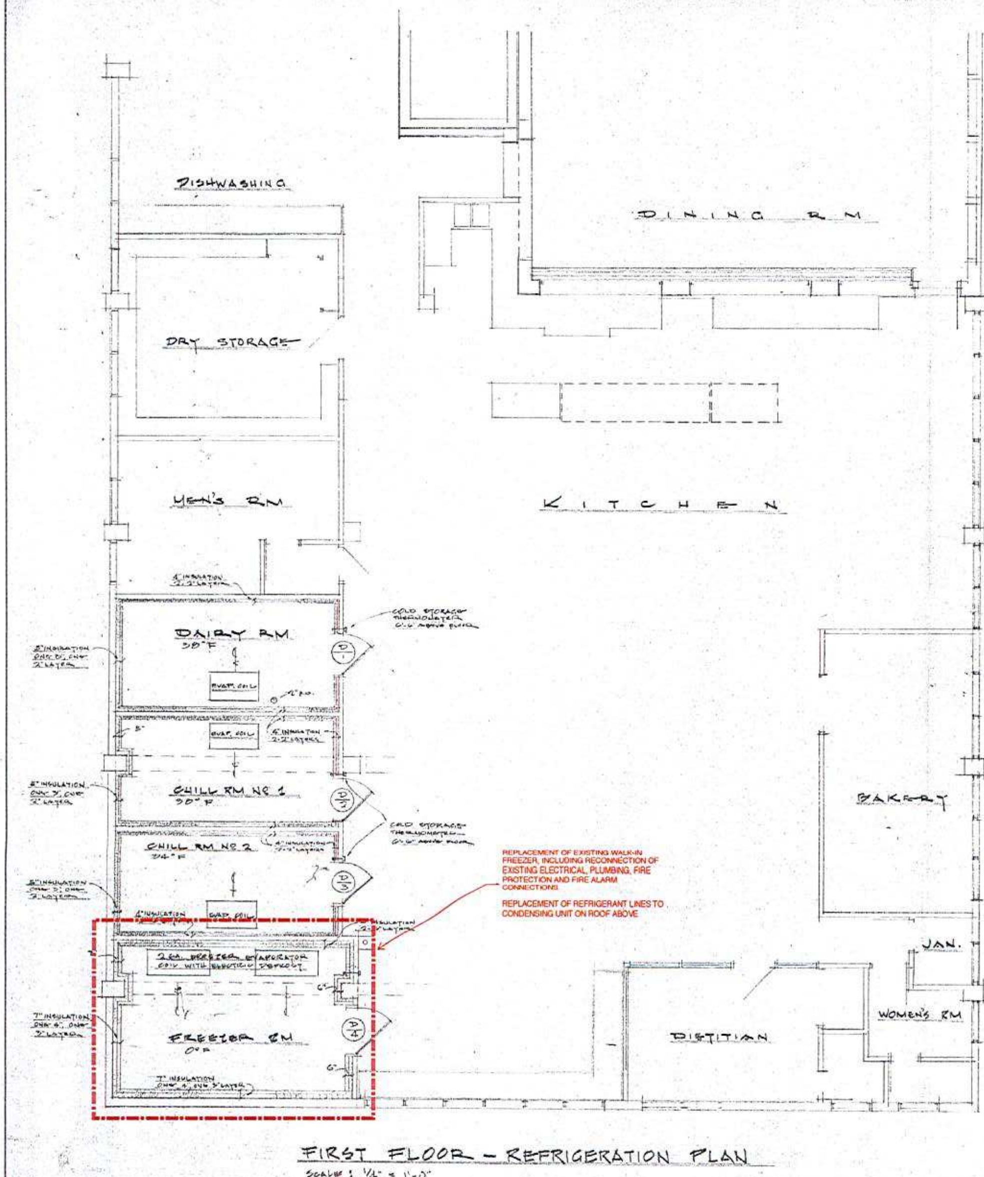
SEND ALL CORRESPONDENCE TO: _____ ☐FAX: 808.486.5889 ☐E-mail: eqi@enviroquestinc.com

EnviroQuest

APPENDIX C

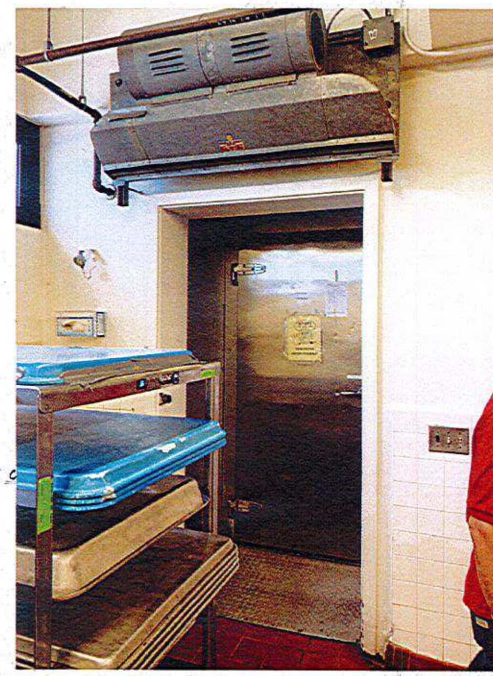
REFERENCE DRAWINGS


MAIN ENTRY LOCATED HERE ON 1ST FLOOR
ADMIN OFFICE (CHECK-IN) ON 1ST FLOOR
MAY NEED TO PROVIDE NEW POWER CONNECTION FOR TEMPORARY FREEZER DURING CONSTRUCTION. TEST FOR LEAD CONTAINING PAINT.
VISITOR PARKING
LOCATION OF KITCHEN ON 1ST FLOOR, WITH WALK-IN FREEZER BEING REPLACED.
WALK-IN FREEZER FOR CONDENSING UNIT BEING REPLACED IS ON ROOF, DIRECTLY ABOVE FREEZER
Kalopa Pl
Hala Dr
Hala Dr
Dr
Ma'uhili
Ma'uhili Elderly Housing
N Kuakini St
N Kuakini St
N Kuakini St
Google



FIRST FLOOR – REFRIGERATION PLAN

SCALE: [illegible]



REFRIGERATION UNIT SCHEDULE

FREEZER ROOM

2 ONLY BRUNNER A-300-FC AIR COOLED CONDENSING UNITS. 12,000 BTU/HR @ -10°F SUCTION TEMP., 90°F AMBIENT TEMP. 3HP 208V/60C/3P (R-12)

CHILL RM #1, #2 & DAIRY RM

3 ONLY BRUNNER A-156-FC AIR COOLED CONDENSING UNITS. 1½HP 208V/60C/3P (R-12)

CHILL RM #1 – 11,200 BTU/HR @ +20° SUCTION, 90°F AMBIENT TEMP.

DAIRY ROOM – " " " " "

CHILL RM #2 – 12,000 BTU/HR @ +20° SUCTION, " " "

FREEZER ROOM

2 ONLY DUNHAM BUSH [illegible]-120 EVAPORATOR COILS. AUTOMATIC ELECTRIC DEFROST. BALANCE AT 10° TEMPERATURE DIFFERENCE

CHILL RM #1, #2 & DAIRY RM

3 ONLY DUNHAM BUSH UC-120 EVAPORATOR COILS. BALANCE AT 10° TEMPERATURE DIFFERENCE

DOOR SCHEDULE

D/1 D/2 D/3 JAMISON STANDARD NO. 6 WALK-IN DOOR. 3'-0" x 6'-6" LEFT HAND SWING, 4" BATT-FILL INSULATION, CONCRETE SILL, 20 GAGE STAINLESS STEEL CLAD, HEAVY-DUTY CHROME PLATED HARDWARE

D/4 JAMISON STANDARD NO. 7 WALK-IN DOOR. 3'-0" x 6'-6" LEFT HAND SWING, 6" [illegible] INSULATION, CONCRETE SILL, 20 GAGE STAINLESS STEEL CLAD, HEAVY-DUTY CHROME PLATED HARDWARE W/ HEATER CABLES AND ADJUSTING THERMOSWITCH & STAINLESS COVER PLATE

INSPECTOR'S COPY

APPROVED SUBJECT TO CONTRACT REQUIREMENTS

SHOP DRAWINGS APPROVED AS TO GENERAL DESIGN WITH CORRECTIONS AS NOTED.
ALL DIMENSIONS TO BE VERIFIED AT JOB.
ERNEST HARA, A. I. A. ARCHITECT

AIR ENGINEERING COMPANY
645 HALEKAUWILA STREET HONOLULU 13, HAWAII

REFRIGERATION SYSTEM
KITCHEN & STOREROOM FOR MALUHIA HOSPITAL

BY	INITIAL	DATE	
DRAWN	[illegible]		SCALE [illegible]
CHECKED	[illegible]		JOB NO.
APPROVED			DWG NO.
			SHEET [illegible] OF [illegible]

SOUTH ELEVATION

CROSS SECTION

NOTE: ALL STRUCTURAL STEEL MEMBERS SHALL BE PAINTED W/ RUST INHIBITIVE PAINT

SECTION

NOTE: ALL STRUCTURAL STEEL MEMBERS SHALL BE PROTECTED W/ 3/4" CEM PLASTER ON MET. LATH.

REPLACEMENT OF EXISTING WALK-IN FREEZER CONDENSING UNIT ON ROOF

REPLACEMENT OF REFRIGERANT LINES TO CONDENSING UNIT ON ROOF ABOVE

ROOF PLAN

RAISED EDGE DET

CHAMFER DET

DOWNSPOUT DET

GUTTER DET.

DRIP DET

GRAVEL STOP DET

NOTE:
LAPS AT GRAVEL STOPS & RAISED EDGES SHALL BE 6" & CONNECTED W/ ASPHALTIC MASTIC

BUILDING DEPARTMENT
CITY & COUNTY OF HONOLULU

KITCHEN & STOREROOM FOR
MALUHIA HOSPITAL

DESIGN:	KENNETH BROWN AIA	
DRAWN:		
CHECKED:	ERNEST H. HARA AIA	SHEET 8
SCALE:	ASSOCIATE ARCHITECTS	OF 21 SHEETS
DATE: APR. 19, 1962	JOB NO.	FILE 1 / DRAW 6 FOLDER 11