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LEAD BASE PAINT SURVEY OF 12 DUPLEX FAMILY UNITS SECTION 3 CNC
CHARLESTON SC
4/1/2001
PRECISION ENVIRONMENTAL MANAGEMENT, INC.

**LEAD BASE PAINT SURVEY OF
12 DUPLEX FAMILY UNITS AT
CHARLESTON NAVAL COMPLEX
CHARLESTON, SC**

SECTION THREE



PRECISION

Environmental Management, Inc.

1627 Peachtree Street N.E. · Suite 222 · Atlanta, Georgia 30309
Telephone: (404) 874-6263 · Fax: (404) 874-4342

**LEAD BASE PAINT SURVEY OF
12 DUPLEX FAMILY UNITS AT
CHARLESTON NAVAL COMPLEX
CHARLESTON, SC**

April 5, 2001

**PREPARED FOR:
DEPARTMENT OF THE NAVY
SOUTHERN DIVISION
NAVAL FACILITIES ENGINEERING COMMAND
2155 EAGLE DRIVE
NORTH CHARLESTON, SC 29418**

ATTN: Ms. LAURI PAGGI, Contr.

**PREPARED BY:
LEON A. LOBBAN, CIH
PRECISION ENVIRONMENTAL
MANAGEMENT, INC.
131 PONCE DE LEON AVE.,
SUITE 215, ATLANTA, GA., 30308**

SECTION THREE

1.0 Executive Summary

Precision Environmental Management, Inc (PEM) has completed its inspection of all flaking Lead Base paint (flaking LBP) on the interior of each of the following housing units: AA, BB, CC, DD, EE, FF, GG, HH, II, JJ, KK, and LL. Flaking paint was observed in 10 of the 12 units inspected (Appendix A). Thirty-one paint chip samples was collected (Table1-0, Appendix A) from building components and analyzed for percent lead composition. Lead concentrations ranged between less than 0.03 and 1.10 percent by weight lead. The laboratory's reporting limits (RL) ranged between 0.03, and 0.10 percent by weight lead (Appendix A, table1-0).

Based upon the results of PEM's field investigation and sampling, in conjunction with Hygeia's Laboratories, Inc's analytical report, and The Department Of Housing and Urban development (HUD) Guidelines, the flaking paint that was observed and sampled were not "Lead Base Paint" by definition.

2.0 Introduction

Precision Environmental Management, Inc (PEM) contracted with The department Of The Navy, Southern Division Naval facilities Engineering Command, North Charleston, SC (SOUTHDIV) to conduct a LBP survey of 11 duplex family housing units at Charleston Naval Complex, Charleston, SC. The work was executed under Contract/Purchase Order/Agreement No. N62467-01-M-0326.

The survey/inspection complied with the multifamily protocol outlined in chapter 7 (1997 revision) of the HUD Guidelines, and was conducted during the period 03/08/-03/14/01. Mr. Eric Hodge, Senior Environmental Scientist, and Mr. Wayne Gladney, Field Technician, were assigned to the conduct all field activities. Mr. Leon Lobban, CIH directed all aspects of the survey and prepared the Final Report. LBP and related Certifications for Messers Lobban, Hodges, and Gladney are attached as Appendix B.

3.0 Lead Base Paint Survey

3.1 Survey protocol

The LBP survey consisted of conducting a detailed inspection of all painted surfaces, and collecting paint chip samples from interior building components determined to be damaged or flaking. Paint chip samples obtained from the 12 family Housing Units identified by SOUTHDIV, were analyzed by Flame AAS, in accordance with EPA Method 7420A, by Hygeia Laboratories, Inc, Marietta Georgia. Hygeia is AIHA Accredited, and participates in the ELLAP – ELPAT matrices: Paint, Soil, Dust. Copies of Hygeia's certifications are included as Appendix C.

3.2 Summary Of Each Components Tested

Building components tested included door jams, walls, window casings, ceilings, Staircases, baseboards, door jams, door casings, moldings on porch doors, and mechanical room doors (Appendices D, and E and attached photo log). Surface areas of damaged/flaking paint ranged between 0.05 and 21.0 square feet (sq. ft.). Substrates consisted of wood, plaster, and sheetrock. In general, PEM's LBP Inspectors/Risk Assessor observed the paint in the inspected Family Housing Units to be in good condition. Refer to table 3-2, and field notes included as Appendix D.

3.3 Summary Of Identified LBP Components Type including Approximate locations

Lead Base Paint (LBP) is any paint, varnish, stain, or other applied coating that has one (1) milligram of coating per square centimeter (or 500 micrograms per gram dry weight), or which contains at least 0.5% by weight lead. The terms "leaded paint" and "lead paint" are synonymous with "lead base paint". LBP was not identified in any unit tested (refer to table 3-2 for summary of each component tested and Appendix A for laboratory report).

3.4 Discussion Of Applicable Regulatory Requirements

LBP was not identified in any of the paint chip samples, therefore LBP guidelines and/or LBP regulatory requirements do not apply.

3.5 Typical Floor Plans Indicating paint Chip sample Locations.

Refer to Field notes/floor plans included as appendix E.

3.6 Individual Laboratory Analyses Report

Lead concentrations ranged between 0.1, and 0.03 percent by weight lead. LBP was not detected in any of the paint chip samples. In other words, flaking paint in the 11 duplex family housing units surveyed, was not LBP. Refer to table 3-2 and Appendix A for laboratory analytical reports.

TABLE 1-0 SUMMARY OF LABORATORY REPORT- PERCENY (%) BY WEIGHT LEAD

Sample ID #	Sample Location	% By Weight Lead	Laboratory Reporting limit	House ID #	LBP
795-1	Kitchen-left door jams	0.61	0.05	795 Ave, F	No
795-2	Bathroom 1-wall A	0.61	0.05	795 Ave, F	No
795-3	Room 1- door front side	0.64	0.05	795 Ave, F	No
795-4	Bathroom # 3-wall A	0.50	0.03	795 Ave, F	No
795-6	Room # 4-waa D, left casing	0.70	0.05	795 Ave, F	No
795-7	Bathroom # 5 - wall B	0.63	0.03	795 Ave, F	No
795-8	Hall # 2- ceiling	BRL	0.03	795 Ave, F	No
1285-1	Staircase - left side	0.30	0.03	EE	No
1285-2	Room # 1- Wall B	0.06	0.03	EE	No
1288-1	Room # 3 - 2 nd floor basebrd.	BRL	0.03	FF	No
1288-2	2 nd floor - bthrm # 3 doorjam	0.07	0.03	FF	No
1293-1	Hallway -3 door			DD	No
1293-2	Room # 1, door front			DD	No
1293-3	Staircase railing to 2 nd floor			DD	No
1293-4	Porch 3 1- left door casing			DD	No
1294-1		0.05	0.05	GG	No
1294-2		0.08	0.08	GG	No
1294 -		BRL	0.03	GG	No
1304-1	Bathroom # 1-window casing	1.1	0.10	HH	No
1304-2	Hallway from porch # 2 door	0.11	0.03	HH	No
1304-3	2 nd Floor-Room # 1	0.08	0.03	HH	No
1305-1	Mech room exterior door	0.03	0.03	CC	No
1305-2	Bathroom # 1 interior door	BRL	0.03	CC	No
1305-3	Kitchen ceiling	BRL	0.03	CC	No
1310-1	Door# 3 door moldng left side	0.54	0.05	II	No
1311-1	Kitchen ceiling	BRL	0.03	BB	No
1311-2	Bedrom #3 baseboard wall C	0.53	0.03	BB	No
1311-3	Kitchen intake vent	0.26	0.03	BB	No
1345	Not Sampled- No damage			AA	
1350-1	Kitchen (A) closet mech rm door	BRL	0.03	JJ	No
1350-2	Room # © closet door edge	0.61	0.03		No
1350-3	Room # 1 Baseboard	0.47	0.03		No
1351	Not Sampled			LL	No
1356-1	Living room # 1 wall B	0.33	0.03		No
1356-2	Bedroom # 1 wall D 2 nd floor room 1D	0.16	0.03		No
1356-3	Bedroom # 2 wail B, Room 2B	0.13	0.03		No

TABLE 3-2 SUMMARIES OF LABORATORY REPORTS AND EACH COMPONENT TESTED

Housing Unit 795 "F" Qtrs.

Sample ID	Room	Building component	Matrix	Date Collected	Damaged surface area-sq.ft
795-1	Kitchen	Door jams – left	Chips	03/13/01	8.7
795-2	Bathroom # 1	Wail – A	Chips	03/13/01	1.8
795-3	Room # 1	Door- front side	Chips	03/13/01	
795-4	Bathroom # 3	Wall A	Chips	03/13/01	1.8
795-5	Room # 4	Wall D-window-left casing	Chips	03/13/01	
795-6	Bathroom # 4	Ceiling	Chips	03/13/01	1.8
795-7	Bathroom # 5	Wall B	Chips	03/13/01	10.8
795-8	Hall # 2	Ceiling	Chips	03/13/01	

Housing Unit 1285 Ave. G Qtrs. (EE)

Sample ID	Room	Building Component	Matrix	Date Collected	Damaged surface area-sq.ft
1285-1	Staircase	Staircase left side	Chips	03/13/01	8.7
1285-2	Room 3 1	Wall B	Chips	03/13/01	

Housing Unit 1288 Ave. H Qtrs. (FF)

Sample ID	Room	Building Component	Matrix	Date Collected	Damaged surface area-sq.ft
1288-1	Room 3	2 nd floor baseboard	Chips	03/13/01	1.8
1288-2	2 nd floor	Bathroom # 3 door jam	Chips	03/13/01	10

Housing Unit 1294 Ave. H Qtrs. (GG)

Sample ID	Room	Building Component	Matrix	Date Collected	Damaged surface area-sq.ft
1294-1	Room # 1	Molding on Porch door	Chips	03/09/01	0.05
1294-2	Bathroom # 1	Ceiling	Chips	03/09/01	0.05
1294	Bathroom # 2	Bedroom wall		03/09/01	0.05

Continued

TABLE 3-2 SUMMARIES OF LABORATORY REPORTS AND EACH COMPONENT TESTED

Housing Unit 1304 Ave. H Qtrs. (HH)

Sample ID	Room	Building Component	Matrix	Date Collected	Damaged surface area-sq.ft
1304-1	Bathroom # 1	Door interior	Chips	03/14/01	21.3
1304-2	Hallway from porch # 2	Door hinges	Chips	03/14/01	
1304-3	2 nd floor room # 1	Closet door	Chips	03/14/01	12.3

Housing Unit 1305 Ave. H Qtrs. (CC)

Sample ID	Room	Building Component	Matrix	Date Collected	Damaged surface area-sq.ft
1305-1	Mechanical room	Exterior door	Chips	03/09/01	1.0
1305-2	Bathroom # 1	Interior door	Chips	03/09/01	1.0
1305-3	Kitchen	Ceiling	Chips	03/09/01	1.0

Housing Unit 1310 Ave. H Qtrs. II

Sample ID	Room	Building Component	Matrix	Date Collected	Damaged surface area-sq.ft
1310-1	Room # 3	Door molding-left side	Chips	03/14/01	

Housing Unit 1311 Ave. G Qtrs. (BB)

Sample ID	Room	Building Component	Matrix	Date Collected	Damaged surface area-sq.ft
1311-1	Kitchen	Ceiling	Chips	03/09/01	1.0
1311-2	Bedroom # 3	Baseboard – wall C	Chips	03/09/01	0.50
1311-3	Kitchen	Intake vent	Chips	03/09/01	0.50

Continued

TABLE 3-2 SUMMARIES OF LABORATORY REPORTS AND EACH COMPONENT TESTED -

Housing Unit 1356 Ave. G Qtrs. (JJ)

Sample ID	Room	Building Component	Matrix	Date Collected	Damaged surface area-sq.ft
1350-1	Kitchen	(A) Closet Mech room door	Chips	03/08/01	1.0
1350-2	Room # 3	(C) Closet door edge	Chips	03/08/01	1.0
1350-3	Room # 1	(B) Basement	Chips	03/08/01	1.0

Housing Unit 1356 Ave. H Qtrs. (KK)

Sample ID	Room	Building Component	Matrix	Date Collected	Damaged surface area-sq.ft
1356-1	Living room # 1	Wall D	Chips	03/08/01	1.0
1356-2	Bedroom # 1	Wall D-2 nd floor room #1D	Chips	03/08/01	1.0
1356-3	Bedroom # 2	Wall D- Room 2 B	Chips	03/08/01	1.0

APPENDIX A
LABORATORY REPORT & CHAIN OF CUSTODY FORMS



HYGEIA LABORATORIES, INC.

1300 Williams Drive, Suite A - Marietta, Georgia 30066-6299 - (770) 514-6933, FAX (770) 514-6966

ANALYTICAL REPORT

Client: **Precision Environmental Management**
568 14th Street
Atlanta, GA 30318

Attention: **Eric Hodges**

Project Name: **Charleston Naval Complex - 795 Ave. "F" Qtr.**

Project ID: 1834

Received: 3/20/01

Lab Project No. 38402

Report Date: 3/23/01

CASE NARRATIVE

- 1 The holding time for all samples were met.
- 2 Where applicable, results & reporting limits are based on wet weight; dry weight calculations available.
- 3 The temperature of the sample cooler was received by the laboratory at room temperature.
- 4 *CHIPS = Paint Chips

Reviewed by: JH 

Respectfully Submitted,


Eric Hodges
Hygeia Laboratories, Inc.

<u>LAB ID</u>	<u>CLIENT ID</u>	<u>MATRIX*</u>	<u>COLLECTED</u>
281675	795-1	CHIPS	3/13/01
281676	795-2	CHIPS	3/13/01
281677	795-3	CHIPS	3/13/01
281678	795-4	CHIPS	3/13/01
281679	795-5	CHIPS	3/13/01
281680	795-6	CHIPS	3/13/01
281681	795-7	CHIPS	3/13/01
281682	795-8	CHIPS	3/13/01



HYGEIA LABORATORIES, INC.

1300 Williams Drive, Suite A - Marietta, Georgia 30066-6299 - (770) 514-6933, FAX (770) 514-6966

Lab Project No. **38402**

Report Date: 3/23/01

Total Lead

Units: **Percent (%)**
By Weight

Method: **EPA 7420**

Matrix: Paint Chips

Analysis Date: 3/22/01

Prep. Date: 3/21/01

Analyst: GEK

Lab ID	Client ID	Result	Report Limit
281675	795-1	0.61	0.05
281676	795-2	0.61	0.05
281677	795-3	0.64	0.05
281678	795-4	0.50	0.03
281679	795-5	0.70	0.05
281680	795-6	0.50	0.03
281681	795-7	0.63	0.05
281682	795-8	BRL	0.03

NOTES:

- Results relate only to the samples tested as received (see chain-of-custody).
- BRL = "Below Reporting Limit"
- RL = "Reporting Limit"
- Dates are presented in the format "month/day/year"

Certifications

Alabama - Lab ID 40970; Arkansas; Connecticut - No. PH 0208; Delaware; Florida - E87257, FL CompQAP No. 970048;
 Georgia - No. 804; Indiana - Lab ID C-GA-01; Kentucky - Lab ID 90053; Louisiana; Maryland - No. 293; Massachusetts No. M - GA040;
 North Carolina - No. 409; South Carolina - No. 98012001; Tennessee - Lab ID 02827 (DW), UST Program; Virginia - Lab ID 00024

Accreditations

American Association for Laboratory Accreditation (A2LA) - No. 0330-01; American Industrial Hygiene Association (AIHA) - Lab ID 100649

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**PRECISION ENVIRONMENTAL
MANAGEMENT, INC.**

CHAIN OF CUSTODY RECORD

PROJECT NO. 1834		PROJECT NAME Charleston Naval Complex 795-595 Ave. "F" Gtr.		NO. OF CONTAINERS	INDUSTRIAL HYGIENE SAMPLE		Y
							N
SAMPLERS: (Signature)			(Printed)			PARAMETERS	
SAMPLE NUMBER	DATE	STATION LOCATION					
795-1	3/13/01	Kitchen (Door Jam left)				281675	
795-2	"	Bathroom 1 / Wall-H				676	
795-3	"	Room 1 / Door front side				677	
795-4	"	Bathroom 3 / Wall-A				678	
795-5	"	Room #4 / Wall-D / ^{Window} left (ceiling)				679	
795-6	"	Bathroom #4 / Ceiling				680	
795-7	"	Bathroom #5 / Wall-B				681	
795-8	"	Hall #2 / Ceiling				682	
Relinquished by: (Signature)		Date / Time	Received by: (Signature)		Relinquished by: (Signature)	Date / Time	Received by: (Signature)
[Signature]		3/20/01	[Signature]				
(Printed)			(Printed)		(Printed)		(Printed)
Relinquished by: (Signature)		Date / Time	Received for Laboratory by: (Signature)		Date / Time	Remarks	
[Signature]			Jason Holliday		3/20/01		
(Printed)			(Printed)				
			Jason Holliday				



HYGEIA LABORATORIES, INC.

1300 Williams Drive, Suite A - Marietta, Georgia 30066-6299 - (770) 514-6933, FAX (770) 514-6966

ANALYTICAL REPORT

Client: **Precision Environmental Management**
 568 14th Street
 Atlanta, GA 30318

Attention: **Eric Hodges**

Project Name: **Charleston Naval Complex - 1285 Ave G Qtr**
 Project ID: 1834
 Received: 3/20/01

Lab Project No. 38404 Report Date: 3/23/01

CASE NARRATIVE

- 1 The holding time for all samples were met.
- 2 Where applicable, results & reporting limits are based on wet weight; dry weight calculations available.
- 3 The temperature of the sample cooler was received by the laboratory at room temperature.
- 4 *CHIPS = Paint Chips

Reviewed by: JH 

Respectfully Submitted,



 Hygeia Laboratories, Inc.

<u>LAB ID</u>	<u>CLIENT ID</u>	<u>MATRIX*</u>	<u>COLLECTED</u>
281686	1285-1	CHIPS	3/13/01
281687	1285-2	CHIPS	3/13/01



HYGEIA LABORATORIES, INC.

1300 Williams Drive, Suite A - Marietta, Georgia 30066-6299 - (770) 514-6933, FAX (770) 514-6966

Lab Project No. 38404

Report Date: 3/23/01

Total Lead

Units: **Percent (%)** Method: **EPA 7420**
By Weight

Matrix: Paint Chips Analysis Date: 3/22/01 Prep. Date: 3/21/01 Analyst: GEK

Lab ID	Client ID	Result	Report Limit
281686	1285-1	0.30	0.03
281687	1285-2	0.06	0.03

NOTES:

- Results relate only to the samples tested as received (see chain-of-custody).
- BRL = "Below Reporting Limit"
- RL = "Reporting Limit"
- Dates are presented in the format "month/day/year"

Certifications

Alabama - Lab ID 40970; Arkansas; Connecticut - No. PH 0208; Delaware; Florida - E87257, FL CompQAP No. 970048;
 Georgia - No. 804; Indiana - Lab ID C-GA-01; Kentucky - Lab ID 90053; Louisiana; Maryland - No. 293; Massachusetts No. M - GA040;
 North Carolina - No. 409; South Carolina - No. 98012001; Tennessee - Lab ID 02827 (DW), UST Program; Virginia - Lab ID 00024

Accreditations

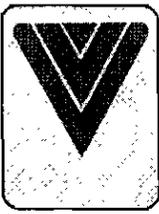
American Association for Laboratory Accreditation (A2LA) - No. 0330-01; American Industrial Hygiene Association (AIHA) - Lab ID 100649

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**PRECISION ENVIRONMENTAL
MANAGEMENT, INC.**

CHAIN OF CUSTODY RECORD

PROJECT NO. 1834		PROJECT NAME Charleston Naval Complex 1295 545 Ave. "F" Ste.		NO. OF CONTAINERS	INDUSTRIAL HYGIENE SAMPLE	
SAMPLERS: (Signature)		(Printed)			PARAMETERS	
SAMPLE NUMBER	DATE	STATION LOCATION				
795-1	3/13/01	Kitchen (Door jam left)				
795-2	"	Bathroom 1 / Wall-A				
795-3	"	Room 1 / Near front side				
795-4	"	Bathroom 3 / Wall-A				
795-5	"	Room #4 / Wall-D / ^{Window} / ^{not using}				
795-6	"	Bathroom #4 / Ceiling				
795-7	"	Bathroom #5 / Wall-B				
795-8	"	Hall #2 / Ceiling				
Relinquished by: (Signature)		Date / Time	Received by: (Signature)		Date / Time	Received by: (Signature)
(Printed)			(Printed)			(Printed)
Relinquished by: (Signature)		Date / Time	Received for Laboratory by: (Signature)		Date / Time	Remarks
(Printed)			(Printed)			



HYGEIA LABORATORIES, INC.

1300 Williams Drive, Suite A - Marietta, Georgia 30066-6299 - (770) 514-6933, FAX (770) 514-6966

ANALYTICAL REPORT

Client: **Precision Environmental Management**

568 14th Street
Atlanta, GA 30318

Attention: **Eric Hodges**

Project Name: **Charleston Naval Complex - 1288 Ave H Qtr.**

Project ID: 1834

Received: 3/20/01

Lab Project No. 38405

Report Date: 3/23/01

CASE NARRATIVE

- 1 The holding time for all samples were met.
- 2 Where applicable, results & reporting limits are based on wet weight; dry weight calculations available.
- 3 The temperature of the sample cooler was received by the laboratory at room temperature.
- 4 *CHIPS = Paint Chips

Reviewed by: JH 

Respectfully Submitted,


Hygeia Laboratories, Inc.

<u>LAB ID</u>	<u>CLIENT ID</u>	<u>MATRIX*</u>	<u>COLLECTED</u>
281688	1288-1	CHIPS	3/14/01
281689	1288-2	CHIPS	3/14/01



HYGEIA LABORATORIES, INC.

1300 Williams Drive, Suite A - Marietta, Georgia 30066-6299 - (770) 514-6933, FAX (770) 514-6966

Lab Project No. 38405

Report Date: 3/23/01

Total Lead

Units: **Percent (%)** Method: **EPA 7420**

By Weight

Matrix: Paint Chips

Analysis Date: 3/22/01

Prep. Date: 3/21/01

Analyst: GEK

Lab ID Client ID

281688 1288-1

281689 1288-2

Result

BRL

0.07

Report Limit

0.03

0.03

NOTES:

- Results relate only to the samples tested as received (see chain-of-custody).
- BRL = "Below Reporting Limit"
- RL = "Reporting Limit"
- Dates are presented in the format "month/day/year"

Certifications

Alabama - Lab ID 40970; Arkansas; Connecticut - No. PH 0208; Delaware; Florida - E87257, FL CompQAP No. 970048;
 Georgia - No. 804; Indiana - Lab ID C-GA-01; Kentucky - Lab ID 90053; Louisiana; Maryland - No. 293; Massachusetts No. M - GA040;
 North Carolina - No. 409; South Carolina - No. 98012001; Tennessee - Lab ID 02827 (DW), UST Program; Virginia - Lab ID 00024

Accreditations

American Association for Laboratory Accreditation (A2LA) - No. 0330-01; American Industrial Hygiene Association (AIHA) - Lab ID 100649

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**PRECISION ENVIRONMENTAL
MANAGEMENT, INC.**

CHAIN OF CUSTODY RECORD

PROJECT NO. 1834	PROJECT NAME <i>Charleston Animal Complex</i> 1049 AVE. H GTE.		NO. OF CONTAINERS	INDUSTRIAL HYGIENE SAMPLE		Y
						N
SAMPLERS: (Signature) <i>[Signature]</i>		(Printed) <i>William Anthony</i>		PARAMETERS		
SAMPLE NUMBER	DATE	STATION LOCATION				
1288-1	3/14/01	Rm # 3 - 2 nd Floor (Baseboard)				281688
1288-2	3/14/01	2 nd Floor Bathroom #3 (Door Jam)				589
						<i>5MB</i>
Relinquished by: (Signature) <i>[Signature]</i>		Date / Time	Received by: (Signature)		Date / Time	Received by: (Signature)
(Printed)			(Printed)			(Printed)
Relinquished by: (Signature)		Date / Time	Received for Laboratory by: (Signature)		Date / Time	Remarks
(Printed)			<i>Jason Holliday</i>		3/20/01	
			(Printed) <i>Jason Holliday</i>			



HYGEIA LABORATORIES, INC.

1300 Williams Drive, Suite A - Marietta, Georgia 30066-6299 - (770) 514-6933, FAX (770) 514-6966

ANALYTICAL REPORT

Client: **Precision Environmental Management**
568 14th Street
Atlanta, GA 30318

Attention: **Eric Hodges**

Project Name: **Charleston Naval Complex - 1294 Ave H**

Project ID: 1834

Received: 03/20/01

Lab Project No. 38396

Report Date: 03/23/01

CASE NARRATIVE

- 1 The holding time for all samples were met.
- 2 Where applicable, results & reporting limits are based on wet weight; dry weight calculations available.
- 3 The temperature of the sample cooler was received by the laboratory at room temperature.
- 4 *CHIPS = Paint Chips

Reviewed by: JH *[Signature]*

Respectfully Submitted,

[Signature]
Hygeia Laboratories, Inc.

<u>LAB ID</u>	<u>CLIENT ID</u>	<u>MATRIX*</u>	<u>COLLECTED</u>
281658	1294-1	CHIPS	3/9/01
281659	1294-2	CHIPS	3/9/01
281660	1294	CHIPS	3/9/01



HYGEIA LABORATORIES, INC.

1300 Williams Drive, Suite A - Marietta, Georgia 30066-6299 - (770) 514-6933, FAX (770) 514-6966

Lab Project No. 38396

Report Date: 3/23/01

Total Lead

Units: **Percent (%)** Method: **EPA 7420**

By Weight

Matrix: Paint Chips

Analysis Date: 3/22/01

Prep. Date: 3/21/01

Analyst: GEK

<u>Lab ID</u>	<u>Client ID</u>	<u>Result</u>	<u>Report Limit</u>
281658	1294-1	0.05	0.05
281659	1294-2	0.08	0.08
281660	1294	BRL	0.03

NOTES:

- Results relate only to the samples tested as received (see chain-of-custody).
- BRL = "Below Reporting Limit"
- RL = "Reporting Limit"
- Dates are presented in the format "month/day/year"

Certifications

Alabama - Lab ID 40970; Arkansas; Connecticut - No. PH 0208; Delaware; Florida - E87257, FL CompQAP No. 970048;
 Georgia - No. 804; Indiana - Lab ID C-GA-01; Kentucky - Lab ID 90053; Louisiana; Maryland - No. 293; Massachusetts No. M - GA040;
 North Carolina - No. 409; South Carolina - No. 98012001; Tennessee - Lab ID 02827 (DW), UST Program; Virginia - Lab ID 00024

Accreditations

American Association for Laboratory Accreditation (A2LA) - No. 0330-01; American Industrial Hygiene Association (AIHA) - Lab ID 100649

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HYGEIA LABORATORIES, INC.

1300 Williams Drive, Suite A - Marietta, Georgia 30066-6299 - (770) 514-6933, FAX (770) 514-6966

ANALYTICAL REPORT

Client: **Precision Environmental Management**
568 14th Street
Atlanta, GA 30318

Attention: **Eric Hodges**

Project Name: **Charleston Naval Complex - 1304 Ave H Qtr**

Project ID: 1834

Received: 3/20/01

Lab Project No. 38401

Report Date: 3/23/01

CASE NARRATIVE

- 1 The holding time for all samples were met.
- 2 Where applicable, results & reporting limits are based on wet weight; dry weight calculations available.
- 3 The temperature of the sample cooler was received by the laboratory at room temperature.
- 4 *CHIPS = Paint Chips

Reviewed by: JH 

Respectfully Submitted,


Hygeia Laboratories, Inc.

<u>LAB ID</u>	<u>CLIENT ID</u>	<u>MATRIX*</u>	<u>COLLECTED</u>
281672	1304-1	CHIPS	3/14/01
281673	1304-2	CHIPS	3/14/01
281674	1304-3	CHIPS	3/14/01



HYGEIA LABORATORIES, INC.

1300 Williams Drive, Suite A - Marietta, Georgia 30066-6299 - (770) 514-6933, FAX (770) 514-6966

Lab Project No.

38401

Report Date: 3/23/01

Total Lead

Units: **Percent (%)**

Method: **EPA 7420**

By Weight

Matrix: Paint Chips

Analysis Date: 3/22/01

Prep. Date: 3/21/01

Analyst: GEK

Lab ID Client ID

Result

Report Limit

281672 1304-1

1.1

0.1

281673 1304-2

0.11

0.03

281674 1304-3

0.08

0.03

NOTES:

- Results relate only to the samples tested as received (see chain-of-custody).
- BRL = "Below Reporting Limit"
- RL = "Reporting Limit"
- Dates are presented in the format "month/day/year"

Certifications

Alabama - Lab ID 40970; Arkansas; Connecticut - No. PH 0208; Delaware; Florida - E87257, FL CompQAP No. 970048;
 Georgia - No. 804; Indiana - Lab ID C-GA-01; Kentucky - Lab ID 90053; Louisiana; Maryland - No. 293; Massachusetts No. M - GA040;
 North Carolina - No. 409; South Carolina - No. 98012001; Tennessee - Lab ID 02827 (DW), UST Program; Virginia - Lab ID 00024

Accreditations

American Association for Laboratory Accreditation (A2LA) - No. 0330-01; American Industrial Hygiene Association (AIHA) - Lab ID 100649

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HYGEIA LABORATORIES, INC.

1300 Williams Drive, Suite A - Marietta, Georgia 30066-6299 - (770) 514-6933, FAX (770) 514-6966

ANALYTICAL REPORT

Client: **Precision Environmental Management**

568 14th Street
Atlanta, GA 30318

Attention: **Eric Hodges**

Project Name: **Charleston Naval Complex - 1305 Ave G**

Project ID: 1834

Received: 3/20/01

Lab Project No. 38395

Report Date: 3/23/01

CASE NARRATIVE

- 1 The holding time for all samples were met.
- 2 Where applicable, results & reporting limits are based on wet weight; dry weight calculations available.
- 3 The temperature of the sample cooler was received by the laboratory at room temperature.
- 4 *CHIPS = Paint Chips

Reviewed by: JH 

Respectfully Submitted,



Hygeia Laboratories, Inc.

<u>LAB ID</u>	<u>CLIENT ID</u>	<u>MATRIX*</u>	<u>COLLECTED</u>
281655	1305-1	CHIPS	3/9/01
281656	1305-2	CHIPS	3/9/01
281657	1305-3	CHIPS	3/9/01



HYGEIA LABORATORIES, INC.

1300 Williams Drive, Suite A - Marietta, Georgia 30066-6299 - (770) 514-6933, FAX (770) 514-6966

Lab Project No. **38395**

Report Date: 3/23/01

Total Lead

Units: **Percent (%)** Method: **EPA 7420**
By Weight

Matrix: Paint Chips

Analysis Date: 3/22/01

Prep. Date: 3/21/01

Analyst: GEK

Lab ID	Client ID	Result	Report Limit
281655	1305-1	0.03	0.03
281656	1305-2	BRL	0.03
281657	1305-3	BRL	0.03

NOTES:

- Results relate only to the samples tested as received (see chain-of-custody).
- BRL = "Below Reporting Limit"
- RL = "Reporting Limit"
- Dates are presented in the format "month/day/year"

Certifications

Alabama - Lab ID 40970; Arkansas; Connecticut - No. PH 0208; Delaware; Florida - E87257, FL CompQAP No. 970048;
 Georgia - No. 804; Indiana - Lab ID C-GA-01; Kentucky - Lab ID 90053; Louisiana; Maryland - No. 293; Massachusetts No. M - GA040;
 North Carolina - No. 409; South Carolina - No. 98012001; Tennessee - Lab ID 02827 (DW), UST Program; Virginia - Lab ID 00024

Accreditations

American Association for Laboratory Accreditation (A2LA) - No. 0330-01; American Industrial Hygiene Association (AIHA) - Lab ID 100649

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HYGEIA LABORATORIES, INC.

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ANALYTICAL REPORT

Client: **Precision Environmental Management**
568 14th Street
Atlanta, GA 30318

Attention: **Eric Hodges**

Project Name: **Charleston Naval Complex - 1310 Ave H**

Project ID: 1834

Received: 3/20/01

Lab Project No. 38397

Report Date: 3/23/01

CASE NARRATIVE

- 1 The holding time for all samples were met.
- 2 Where applicable, results & reporting limits are based on wet weight; dry weight calculations available.
- 3 The temperature of the sample cooler was received by the laboratory at room temperature.
- 4 *CHIPS = Paint Chips

Reviewed by: JH 

Respectfully Submitted,


Hygeia Laboratories, Inc.

LAB ID
281661

CLIENT ID
1310-1

MATRIX* COLLECTED
CHIPS 3/14/01



HYGEIA LABORATORIES, INC.

1300 Williams Drive, Suite A - Marietta, Georgia 30066-6299 - (770) 514-6933, FAX (770) 514-6966

Lab Project No. 38397

Report Date: 3/23/01

Total Lead

Units: **Percent (%)** Method: **EPA 7420**

By Weight

Matrix: Paint Chips

Analysis Date: 3/22/01

Prep. Date: 3/21/01

Analyst: GEK

Lab ID Client ID
281661 1310-1

Result
0.54

Report Limit
0.05

NOTES:

- Results relate only to the samples tested as received (see chain-of-custody).
- BRL = "Below Reporting Limit"
- RL = "Reporting Limit"
- Dates are presented in the format "month/day/year"

Certifications

Alabama - Lab ID 40970; Arkansas; Connecticut - No. PH 0208; Delaware; Florida - E87257, FL CompQAP No. 970048;
Georgia - No. 804; Indiana - Lab ID C-GA-01; Kentucky - Lab ID 90053; Louisiana; Maryland - No. 293; Massachusetts No. M - GA040;
North Carolina - No. 409; South Carolina - No. 98012001; Tennessee - Lab ID 02827 (DW), UST Program; Virginia - Lab ID 00024

Accreditations

American Association for Laboratory Accreditation (A2LA) - No. 0330-01; American Industrial Hygiene Association (AIHA) - Lab ID 100649

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HYGEIA LABORATORIES, INC.

1300 Williams Drive, Suite A - Marietta, Georgia 30066-6299 - (770) 514-6933, FAX (770) 514-6966

ANALYTICAL REPORT

Client: **Precision Environmental Management**
568 14th Street
Atlanta, GA 30318

Attention: **Eric Hodges**

Project Name: **Charleston Naval Complex - 1311 Ave G**

Project ID: 1834

Received: 3/20/01

Lab Project No. 38403

Report Date: 3/23/01

CASE NARRATIVE

- 1 The holding time for all samples were met.
- 2 Where applicable, results & reporting limits are based on wet weight; dry weight calculations available.
- 3 The temperature of the sample cooler was received by the laboratory at room temperature.
- 4 *CHIPS = Paint Chips

Reviewed by: JH 

Respectfully Submitted,


Hygeia Laboratories, Inc.

<u>LAB ID</u>	<u>CLIENT ID</u>	<u>MATRIX*</u>	<u>COLLECTED</u>
281683	1311-1	CHIPS	3/9/01
281684	1311-2	CHIPS	3/9/01
281685	1311-3	CHIPS	3/9/01



HYGEIA LABORATORIES, INC.

1300 Williams Drive, Suite A - Marietta, Georgia 30066-6299 - (770) 514-6933, FAX (770) 514-6966

Lab Project No. **38403**

Report Date: 3/23/01

Total Lead

Units: **Percent (%)** Method: **EPA 7420**
By Weight

Matrix: Paint Chips Analysis Date: 3/22/01 Prep. Date: 3/21/01 Analyst: GEK

<u>Lab ID</u>	<u>Client ID</u>	<u>Result</u>	<u>Report Limit</u>
281683	1311-1	BRL	0.03
281684	1311-2	0.53	0.03
281685	1311-3	0.26	0.03

NOTES:

- Results relate only to the samples tested as received (see chain-of-custody).
- BRL = "Below Reporting Limit"
- RL = "Reporting Limit"
- Dates are presented in the format "month/day/year"

Certifications

Alabama - Lab ID 40970; Arkansas; Connecticut - No. PH 0208; Delaware; Florida - E87257, FL CompQAP No. 970048;
 Georgia - No. 804; Indiana - Lab ID C-GA-01; Kentucky - Lab ID 90053; Louisiana; Maryland - No. 293; Massachusetts No. M - GA040;
 North Carolina - No. 409; South Carolina - No. 98012001; Tennessee - Lab ID 02827 (DW), UST Program; Virginia - Lab ID 00024

Accreditations

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ANALYTICAL REPORT

Client: **Precision Environmental Management**
568 14th Street
Atlanta, GA 30318

Attention: **Eric Hodges**

Project Name: **Charleston Naval Complex - 1350 Ave H**

Project ID: 1834

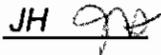
Received: 3/20/01

Lab Project No. 38399

Report Date: 3/23/01

CASE NARRATIVE

- 1 The holding time for all samples were met.
- 2 Where applicable, results & reporting limits are based on wet weight; dry weight calculations available.
- 3 The temperature of the sample cooler was received by the laboratory at room temperature.
- 4 *CHIPS = Paint Chips

Reviewed by: JH 

Respectfully Submitted,



Hygeia Laboratories, Inc.

<u>LAB ID</u>	<u>CLIENT ID</u>	<u>MATRIX*</u>	<u>COLLECTED</u>
281665	1350-1	CHIPS	3/8/01
281666	1350-2	CHIPS	3/8/01
281667	1350-3	CHIPS	3/8/01



HYGEIA LABORATORIES, INC.

1300 Williams Drive, Suite A - Marietta, Georgia 30066-6299 - (770) 514-6933, FAX (770) 514-6966

Lab Project No. 38399

Report Date: 3/23/01

Total Lead

Units: **Percent (%)** Method: **EPA 7420**
By Weight

Matrix: Paint Chips Analysis Date: 3/22/01 Prep. Date: 3/21/01 Analyst: GEK

<u>Lab ID</u>	<u>Client ID</u>	<u>Result</u>	<u>Report Limit</u>
281665	1350-1	BRL	0.03
281666	1350-2	0.61	0.05
281667	1350-3	0.47	0.03

NOTES:

- Results relate only to the samples tested as received (see chain-of-custody).
- BRL = "Below Reporting Limit"
- RL = "Reporting Limit"
- Dates are presented in the format "month/day/year"

Certifications

Alabama - Lab ID 40970; Arkansas; Connecticut - No. PH 0208; Delaware; Florida - E87257, FL CompQAP No. 970048;
 Georgia - No. 804; Indiana - Lab ID C-GA-01; Kentucky - Lab ID 90053; Louisiana; Maryland - No. 293; Massachusetts No. M - GA040;
 North Carolina - No. 409; South Carolina - No. 98012001; Tennessee - Lab ID 02827 (DW), UST Program; Virginia - Lab ID 00024

Accreditations

American Association for Laboratory Accreditation (A2LA) - No. 0330-01; American Industrial Hygiene Association (AIHA) - Lab ID 100649

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**PRECISION ENVIRONMENTAL
MANAGEMENT, INC.**

CHAIN OF CUSTODY RECORD

PROJECT NO. 1034		PROJECT NAME Charleston David complex 1350 Ave H OHS		NO. OF CONTAINERS	INDUSTRIAL HYGIENE SAMPLE		Y
SAMPLERS: (Signature) <i>[Signature]</i>		(Printed) Whitney Gladney			PARAMETERS		N
SAMPLE NUMBER	DATE	STATION LOCATION					
1350 1	3/8/01	K-rooms closet/deskroom		1			281665
1350 2	3/8/01	K-rooms closet/deskroom		1			666
1350 3	3/8/01	Busse (2nd floor)		1			667
Relinquished by: (Signature) <i>[Signature]</i>		Date / Time 3/20/01		Received by: (Signature)		Relinquished by: (Signature)	
(Printed)				(Printed)		(Printed)	
Relinquished by: (Signature)		Date / Time		Received for Laboratory by: (Signature) <i>[Signature]</i>		Date / Time 3/20/01	
(Printed)				(Printed) Jason Holliday			
						Remarks	



HYGEIA LABORATORIES, INC.

1300 Williams Drive, Suite A - Marietta, Georgia 30066-6299 - (770) 514-6933, FAX (770) 514-6966

ANALYTICAL REPORT

Client: **Precision Environmental Management**
568 14th Street
Atlanta, GA 30318

Attention: **Eric Hodges**

Project Name: **Charleston Naval Q & R - 1356 Ave H**

Project ID: 1834

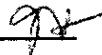
Received: 3/20/01

Lab Project No. **38398**

Report Date: 3/23/01

CASE NARRATIVE

- 1 The holding time for all samples were met.
- 2 Where applicable, results & reporting limits are based on wet weight; dry weight calculations available.
- 3 The temperature of the sample cooler was received by the laboratory at room temperature.
- 4 *CHIPS = Paint Chips

Reviewed by: JH 

Respectfully Submitted,


Hygeia Laboratories, Inc.

<u>LAB ID</u>	<u>CLIENT ID</u>	<u>MATRIX*</u>	<u>COLLECTED</u>
281662	1356-1	CHIPS	3/8/01
281663	1356-2	CHIPS	3/8/01
281664	1356-3	CHIPS	3/8/01



HYGEIA LABORATORIES, INC.

1300 Williams Drive, Suite A - Marietta, Georgia 30066-6299 - (770) 514-6933, FAX (770) 514-6966

Lab Project No. **38398**

Report Date: 3/23/01

Total Lead

Units: **Percent (%)**
By Weight

Method: **EPA 7420**

Matrix: Paint Chips

Analysis Date: 3/22/01

Prep. Date: 3/21/01

Analyst: GEK

Lab ID	Client ID	Result	Report Limit
281662	1356-1	0.33	0.03
281663	1356-2	0.16	0.03
281664	1356-3	0.13	0.03

NOTES:

- Results relate only to the samples tested as received (see chain-of-custody).
- BRL = "Below Reporting Limit"
- RL = "Reporting Limit"
- Dates are presented in the format "month/day/year"

Certifications

Alabama - Lab ID 40970; Arkansas; Connecticut - No. PH 0208; Delaware; Florida - E87257, FL CompQAP No. 970048;
 Georgia - No. 804; Indiana - Lab ID C-GA-01; Kentucky - Lab ID 90053; Louisiana; Maryland - No. 293; Massachusetts No. M - GA040;
 North Carolina - No. 409; South Carolina - No. 98012001; Tennessee - Lab ID 02827 (DW), UST Program; Virginia - Lab ID 00024

Accreditations

American Association for Laboratory Accreditation (A2LA) - No. 0330-01; American Industrial Hygiene Association (AIHA) - Lab ID 100649

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APPENDIX B
PEM'S FIELD PERSONNEL'S CERTIFICATIONS

Lead Abatement Consulting & Training Systems

35048.6217CERT/

900 N.W. 5TH Avenue, Fort Lauderdale, Florida 33311 (954) 524-7308

This is to Certify that

Processed By:

Leon Lobban

Seagull

Since 1971



1 3 3 - 3 4 - 0 4 9 6

131 Ponce de Leon, Atlanta, GA

has successfully completed an English
40 Hr. Lead Abatement Supervisor Course

6-Dec-99

TO

10-Dec-99

OHIO LEAD TRAINING PROVIDER NO. 0203 / VA APPROVED

Complies With All EPA, OSHA & HUD Guidelines

Trainer(s): De Starnes

TEST SCORE: 80 %

Training Address: 2759 Chamblee-Tucker Road, Atlanta, Ga

Student had passed the course test & hands-on assessment

This Certificate Expires

9-Dec-00



1 2 / 9 / 0 0



UNDER FEDERAL CRIMINAL PENALTY OF LAW FOR MAKING OR
REPRODUCING A FALSE OR MISLEADING STATEMENT OR
STATEMENTS (18 U.S.C. 1015, 15 U.S.C. 2615). I
THIS TRAINING COURSE IS FULLY APPLICABLE
REQUIREMENTS OF TITLE IV OF THE FEDERAL TOXIC SUBSTANCES CONTROL
ACT (PART 745 OR 746) OR ANY OTHER FEDERAL, STATE, OR LOCAL
APPLICABLE REGULATIONS.

James Stump, Course Sponsor
Certificate Number.....



9 8 0 2 4

Course Number **AT9949**

National Lead Assessment and Abatement Council

1121

LEON A. LOBBAN
66 HAMMOCK PL
ATLANTA, GA 30312

SSN: 133-34-0496
BDATE: 11/23/44
ASI ID: 33-US-33000776

EXAMINATION: **Lead Supervisor**
EXAM DATE: 01/10/00

EXAMINATION RESULT: **PASS**

Congratulations! ASI is pleased to inform you that you have PASSED the National Lead Assessment and Abatement Council (NLAAC) Lead Supervisor examination.

If you have any questions regarding your permit/license, please contact the appropriate regulatory agency in your state.

Lead Abatement Consulting & Training Systems

349.75.3728 CHERT

900 N.W. 17TH Avenue, Fort Lauderdale, Florida 33311 (954) 524-7208

This is to Certify that

Eric Hodge



2 5 2 - 8 7 - 3 2 0 7
568 14th Street, NW, Atlanta, GA

Processed By:

Seagull

Since 1971

has successfully completed an English

16 Hr. Lead Risk Assessor Course

30-Sep-99 TO 1-Oct-99

OHIO LEAD TRAINING PROVIDER NO. 0203 / VA APPROVED

Complies with EPA, OSHA & HUD Guidelines

Trainer(s): De Stames

TEST SCORE: 81% Training Address: 2759 Chamblee-Cucker Road, Atlanta, Ga

Student had passed the course test & hands-on assessment

This Certificate Expires

30-Sep-00



9 / 3 0 / 0 0



James F. Stumy, Course Sponsor

Certificate Number..... 9 7 4 3 2

Course Number AT9939

P. 02

FAX NO.

MAR 01 01 GMT 05:44 PM

Lead Abatement Consulting & Training Systems

345 75-369 (CERT)

906 N.W. 5TH Avenue, Fort Lauderdale, Florida 33311 (554) 524-7208

This is to Certify that

Eric Hodge



568 14th Street, NW, Atlanta, GA

Processed By:

Seagull

Since 1971



has successfully completed an English

24 Hr. Lead Paint Inspector Course

27-Sep-99 TO 29-Sep-99

OHIO LEAD TRAINING PROVIDER NO. 0203 / VA APPROVED

Complies with EPA, OSHA & HUD Guidelines

Trainer(s): De Starnes

TEST SCORE: 81% Training Address: 2759 Chamablee-Tucker Road, Atlanta, Ga

Student has passed the course test & hands-on assessment

This Certificate Expires

28-Sep-00



James F. Stump, Course Sponsor

Certificate Number.....



9 7 4 3 1

Course Number AT9939

83
1
PAY NO.
TOTAL NO.
MAY 01 01 CAT 05140 PM



National Lead Assessment and Abatement Council

1121

WAYNE GLADNEY
1321 HIDDEN HILLS PKWY
STONE MOUNTAIN, GA 30088

SSN: 116-56-0813
BDATE: 01/23/64
ASI ID: 33-US-33001211

EXAMINATION: Lead Risk Assessor
EXAM DATE: 09/09/00

EXAMINATION RESULT: PASS

Congratulations! ASI is pleased to inform you that you have PASSED the National Lead Assessment and Abatement Council (NLAAC) Lead Risk Assessor examination.

If you have any questions regarding your permit/license, please contact the appropriate regulatory agency in your state.

National Lead Assessment and Abatement Council

112

WAYNE Y. GLADNEY
1321 HIDDEN HILLS PKWY
STONE MOUNTAIN, GA 30088

SSN: 116-56-0813
BDATE: 01/23/64
ASI ID: 33-US-33001211

EXAMINATION: Lead Inspector
EXAM DATE: 09/01/00

EXAMINATION RESULT: PASS

Congratulations! ASI is pleased to inform you that you have PASSED the National Lead Assessment and Abatement Council (NLAAC) Lead Inspector examination.

If you have any questions regarding your permit/license, please contact the appropriate regulatory agency in your state.

APPENDIX C
LABORATORY CERTIFICATIONS

The American Industrial Hygiene Association



is proud to acknowledge that

Hygeia Laboratories, Inc.
Marietta, GA
Laboratory ID# 9072

has fulfilled the requirements for Environmental Lead Laboratory Accreditation Program and has earned distinguished recognition as an

AIHA Accredited Laboratory

Current certificate effective October 1, 1997 to October 1, 2000, subject to continued compliance with AIHA accreditation criteria.

The above named laboratory participates in the following:
ELLAP - ELPAT matrices: Paint, Soil, Dust

The ELLAP program is recognized by the EPA as meeting the requirements of the National Lead Laboratory Accreditation Program established under Title X of the Residential Lead-Based Paint Hazard Reduction Act of 1992 and includes paint, soil and dust wipe analysis. Air analysis is not included as part of the ELLAP.

James C. Rock, Ph.D., PE, CIH
President, American Industrial Hygiene Association

Mark A. Puckar, Ph.D.
Chair, Analytical Accreditation Board

583
Certificate Number

41110-40-105

41110-40-105

APPENDIX D
FIELD SAMPLING FORMS

Name of risk assessor Wayne Gladney

Name of property owner Charles E. Naval Complex

715 Ave F
Property address Ave F Apt. no. 795

Dwelling selection protocol All dwellings Targeted Worst case Random

Target dwelling criteria (check all that apply)

- Code violations
- Judged to be in poor condition
- Presence of two or more children between ages of 6 months and 6 years
- Serves as day-care facility
- Recently prepared for reoccupancy
- Random sampling

Sample number	Room	Building component	Lead (mg/cm ² or µg/g)
795-1	Kitchen	Door # 1 ^{10ms} LEFT	
795-2	Bathroom 1	Wall - A	
795-3	Room 1	Door front side	
795-4	Bathroom #3	Wall - A Wall - A	
795-5	Room #4	Wall - D - window - Left casing	
795-6	Bathroom #4	Ceiling	
795-7	Bathroom #5	Wall - B Wall - B	
795-8	Hall #2	Ceiling	
HUD internm standard			5,000 µg/g or 1 mg/cm ²

Sample all layers of paint, not just deteriorated paint layers.

Total number of samples on this page 8

Page 1 of 2

Date of sample collection 3/13/01 Date shipped to lab 1/1

Shipped by _____ Received by _____
(signature) (signature)

Date results reported 1/1/ Analyzed by _____

Approved by _____

Field Sampling Form for Deteriorated Paint
(One form for each housing unit, common area, or exterior)

Name of risk assessor Weyne Gladney

Name of property owner Charleston Naval Complex

Property address Ave G Apt. no. 1293

(1293 AVE G)

Dwelling selection protocol All dwellings Targeted Worst case Random

Target dwelling criteria (check all that apply)

- Code violations
- Judged to be in poor condition
- Presence of two or more children between ages of 6 months and 6 years
- Serves as day-care facility
- Recently prepared for reoccupancy
- Random sampling

Sample number	Room	Building component	Lead (mg/cm ² or µg/g)
1293-1	HALLWAY 3 rd door	Door hinge Jamb	
1293-2	Room # 1	Door FRONT	
1293-3	Stair case leading to second floor	left side	
1293-4	Porch # 1	left door hinge	CASING
HUD interim standard			5,000 µg/g or 1 mg/cm ²

Sample all layers of paint, not just deteriorated paint layers.

Total number of samples on this page 4

Page 1 of 2

Date of sample collection 3/12/01 Date shipped to lab 1/1

Shipped by _____ Received by _____
(signature) (signature)

Date results reported 1/1 Analyzed by _____

Approved by _____

Form 5.3
Field Sampling Form for Deteriorated Paint
 (One form for each housing unit, common area, or exterior)

Name of risk assessor _____

Name of property owner Charleston Naval Comfity

Property address Ave H Apt. no. 1304

Dwelling selection protocol All dwellings Targeted Worst case Random

Target dwelling criteria (check all that apply)

- Code violations
- Judged to be in poor condition
- Presence of two or more children between ages of 6 months and 6 years
- Serves as day-care facility
- Recently prepared for reoccupancy
- Random sampling

Sample number	Room	Building component	Lead (mg/cm ² or µg/g)
1304-1	Bedroom #1	Window casing	
1304-2	Hallway from porch #2	Door interior	
1304-3	Second floor RM #1	Close door	
HUD interim standard			5,000 µg/g or 1 mg/cm ²

Sample *all* layers of paint, not just deteriorated paint layers.

Total number of samples on this page 3

Page 1 of 2

Date of sample collection 3/15/01 Date shipped to lab / /

Shipped by _____ Received by _____
 (signature) (signature)

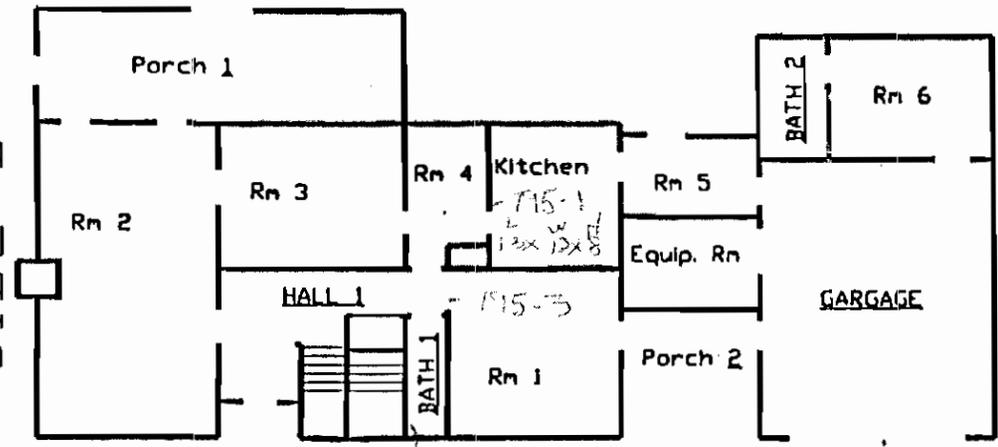
Date results reported / / Analyzed by _____
 Approved by _____

APPENDIX E
FLOOR PLANS

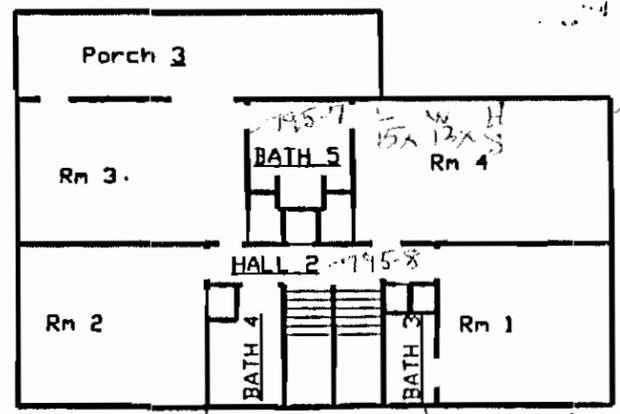
SIDE C

SIDE B

SIDE D



FIRST FLOOR



SECOND FLOOR

SIDE A

SPORTENVDETHASN
 1800 North Hobson Ave.
 North Charleston, SC
 29405-2108
 Ph. (803) 743-8777

Floor Plan - Type (NH-64)
 Qtrs 758 - 795 AVENUE "F"
 Charleston Naval Complex
 Charleston, SC

DWG DATE: 12 MAR 98

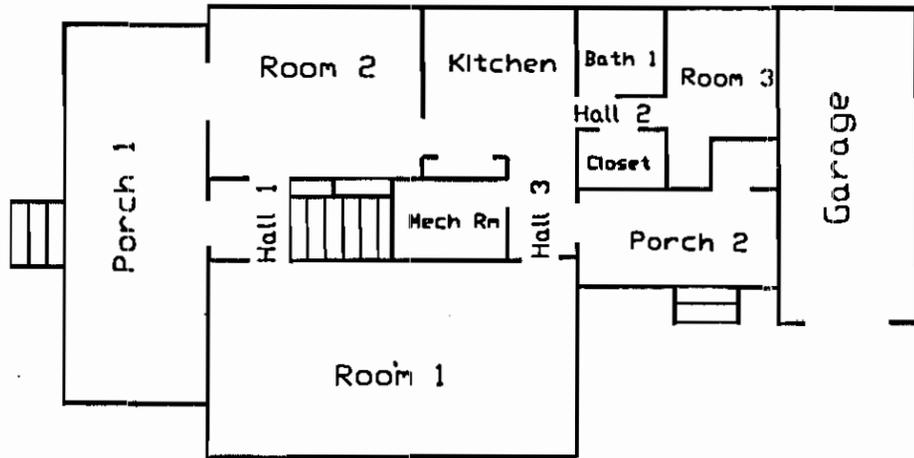
DWG NAME: Qtrs-758

Figure 33-a, Quarters 758, Floorplan
758

Figure 25-a, Quarters EE, Floorplan
630

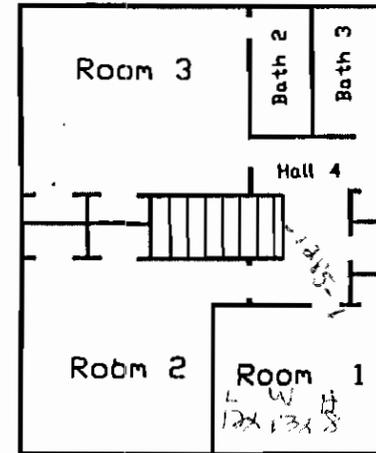
Side B

Side C



FIRST FLOOR

Side D



SECOND FLOOR

Side A

~~Residence~~ ~~LIVING~~ here

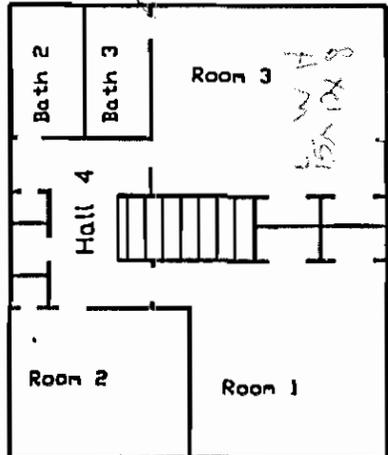
1285 1 Substrate-Wood
1285-2 -11- -Plaster

SPORTENVDETHASN 1899 North Hobson Ave. North Charleston, SC 29405-2108 Ph. (803) 743-8777	Floor Plan (Type HD-23) 1285 AVE. "G" QUARTERS (EE) Charleston Naval Complex Charleston, SC	
	DWG DATE: 13 April 98	DWG NAME: Qtrs-EE

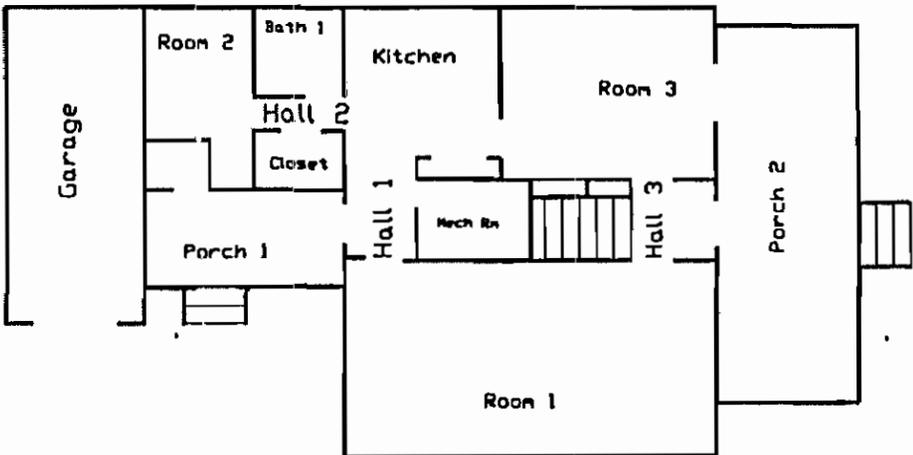
Side C

Side B

Side D



SECOND FLOOR



FIRST FLOOR

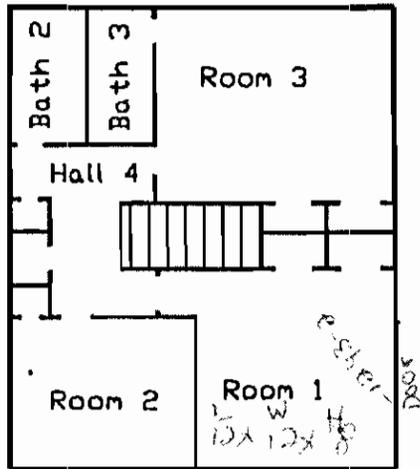
Kitchen - Wallpaper except doors and ceilings
 throughout white paint throughout the house
 Bathrooms - wallpaper except ceiling and
 Overall - very good condition

Side A

<p>SPORTENVDETHASAN 1899 North Hobson Ave. North Charleston, SC 29405-2108 Ph. (803) 743-8777</p>	<p>Floor Plan (Type HD-23) 1288 AVE. "H" QUARTERS (FF) Charleston Naval Complex Charleston, SC</p>
<p>DWG DATE: 14 Apr 98 DWG NAME: Qtrs-FF</p>	

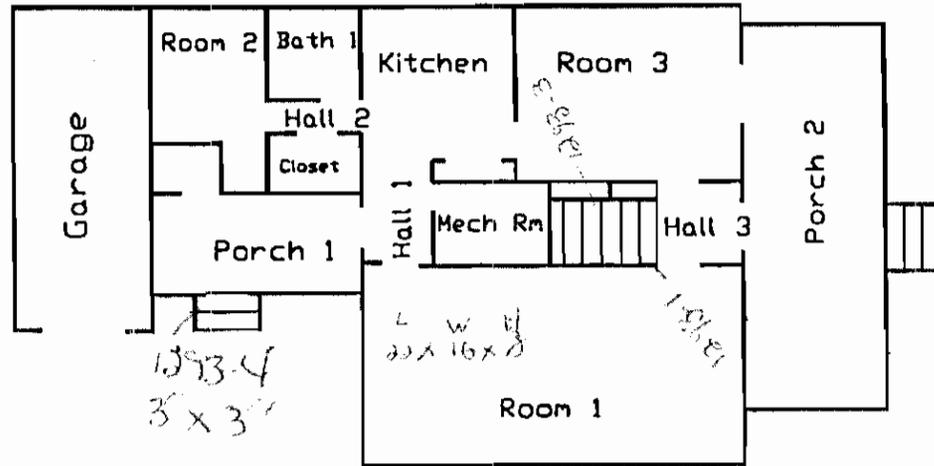
Figure 26-a, Quarters FF, Floorplan

Side B



SECOND FLOOR

Side C



FIRST FLOOR

Side D

Side A

~~Residence living there~~

Site in Good Condition

SFORTENVDETSASN
1899 North Hobson Ave.
North Charleston, SC
29405-2106
Ph. (803) 743-6777

Floor Plan (Type HD-23)
1293 AVE. "G" QUARTERS (DD)
Charleston Naval Complex
Charleston, SC

DWG DATE: 14 Apr 98

DWG NAME: Qtrs-DD

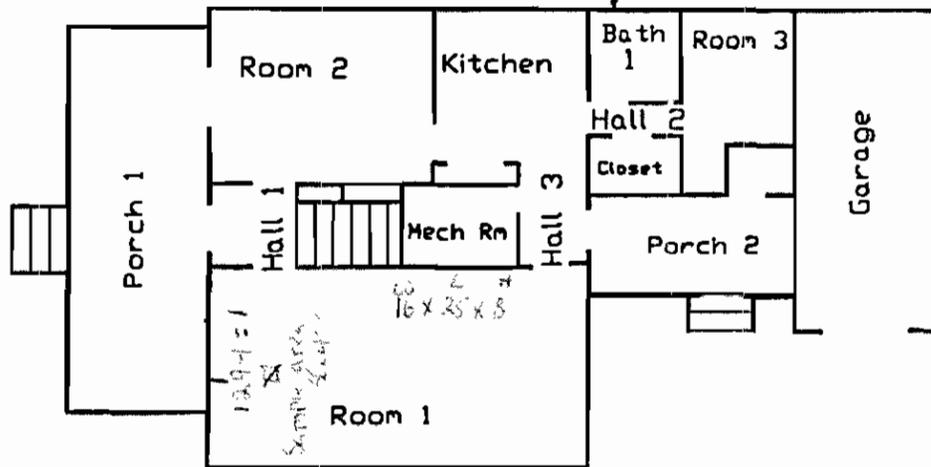
Figure 27-a, Quarters GG, Floorplan
658

- 1294-1 (C-wall) Molding on the base (Living Room)
- 1294-2 Bathroom #1 Ceiling
- 1294-3 (B-wall) Room #2

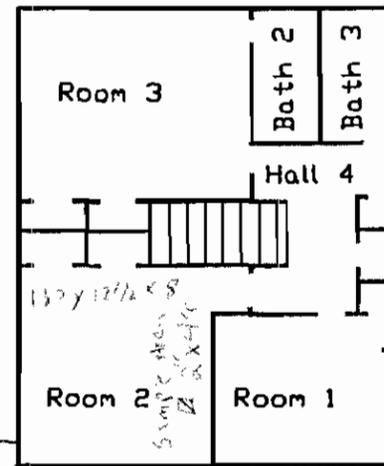
Bath
3' X 5' X 8'
Side C

Sample near 2' X 4"
1294-2 ceiling

Side B



FIRST FLOOR



SECOND FLOOR

Side D

- Substrate - wood Living Room
- Herajems - white paint throughout the house
- Kitchen wallpaper except on ceiling and doors
- Bathroom wallpaper except ceiling through out the halls
- Substrate - Sheetrock Bathroom
- Substrate - Sheetrock Room #2
- Overall - New Paint Job / Very Good Condition

Side A

SPORTENVDETHASN
1890 North Hobson Ave.
North Charleston, SC
29405-2106
Ph. (803) 743-8777

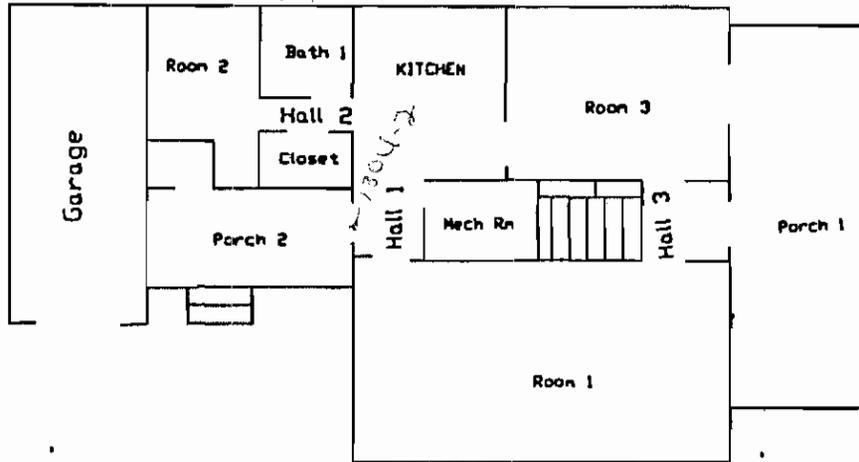
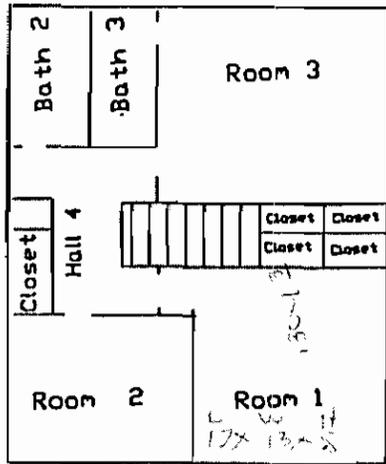
Floor Plan (Type HD-23)
1294 AVE. "H" QUARTERS (GG)
Charleston Naval Complex
Charleston, SC

DWG DATE: 14 Apr 98

DWG NAME: Qtrs-GG

Side C

1304-1
1304-2



Side D

Side A

Side B

Figure 28-a, Quarters HH, Floorplan
674

white paint throughout house
wall paper on walls in kitchen
and all bathrooms, not on ceiling

* Damage area is approx 4" x 11" X

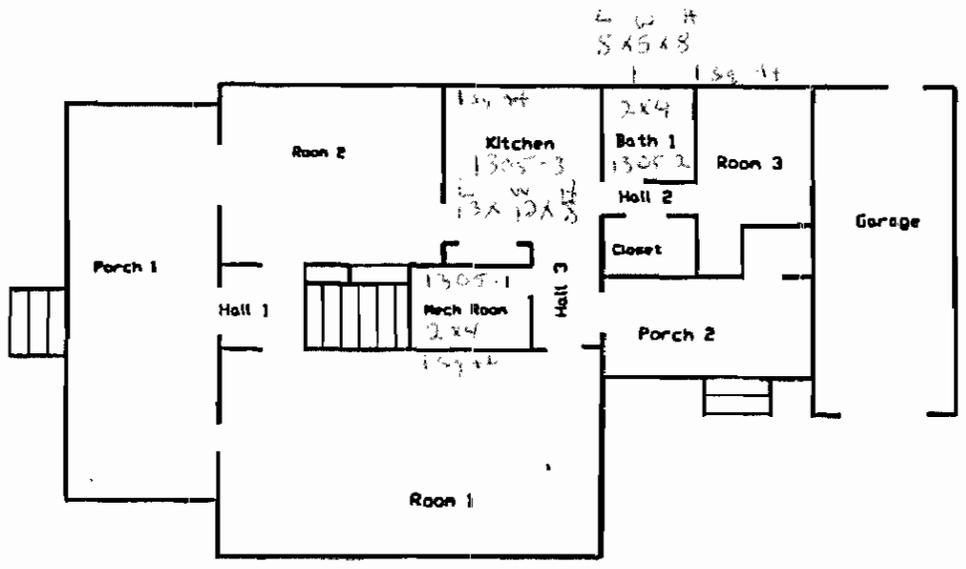
SPORTENDETCHASN 1899 North Hobson Ave. North Charleston, SC 29405-2108 Ph. (803) 743-8777	Floor Plan Qtrs HH 1304 Avenue H Charleston Naval Complex Charleston, SC DWG DATE: 3 Mar 98 DWG NAME: Qtrs HH
---	--

- 1305-1 Mech Room door / substrate - wood 1 sq ft. damage area
- 1305-2 Bathroom #1 door / substrate - wood 1 sq ft. damage area
- 1305-3 Kitchen Ceiling - water damage - / substrate - sheet rock 1 sq ft damage

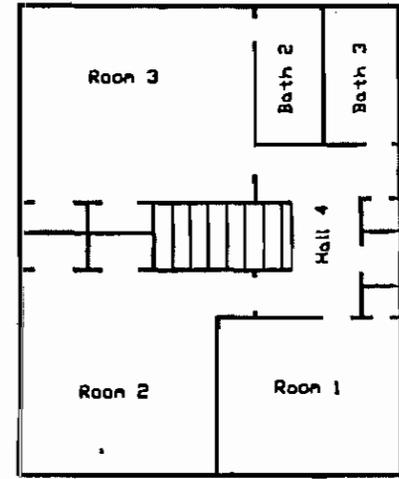
SIDE C

SIDE B

SIDE D



FIRST FLOOR



SECOND FLOOR

SIDE A

Homogenous white paint throughout house
 Kitchen and Bathroom wallpaper except for ceiling & doors
 New paint job
 Overall Good condition

SPORTENVDECHASN
 1899 North Hobson Ave.
 North Charleston, SC
 29405-2108
 Ph. (803) 743-8777

Floor Plan (Type HD-23)
 1305 AVE. "G" QUARTERS (CC)
 Charleston Naval Complex
 Charleston, SC

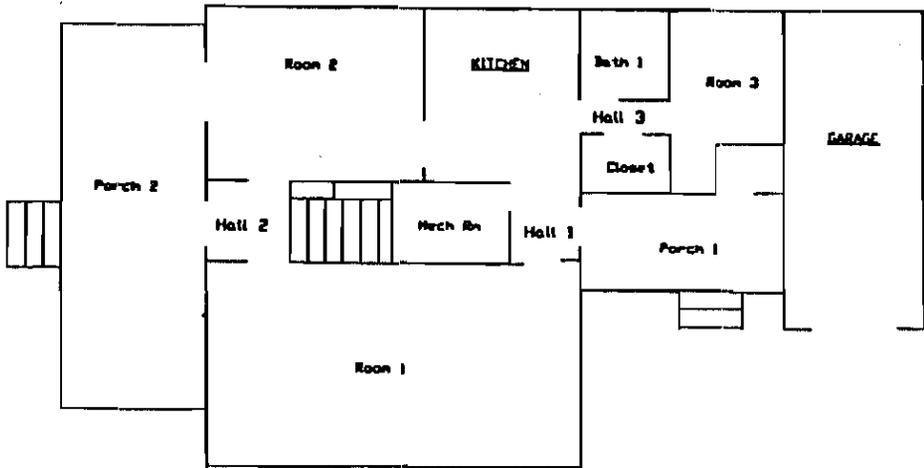
DWG DATE: 12 MAR 98 DWG NAME: Qtrs-CC

Figure 23-a, Quarters CC, Floorplan 587

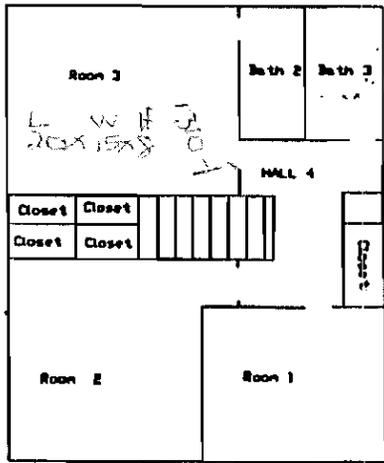
Side C

Side D

Side B



FIRST FLOOR



SECOND FLOOR

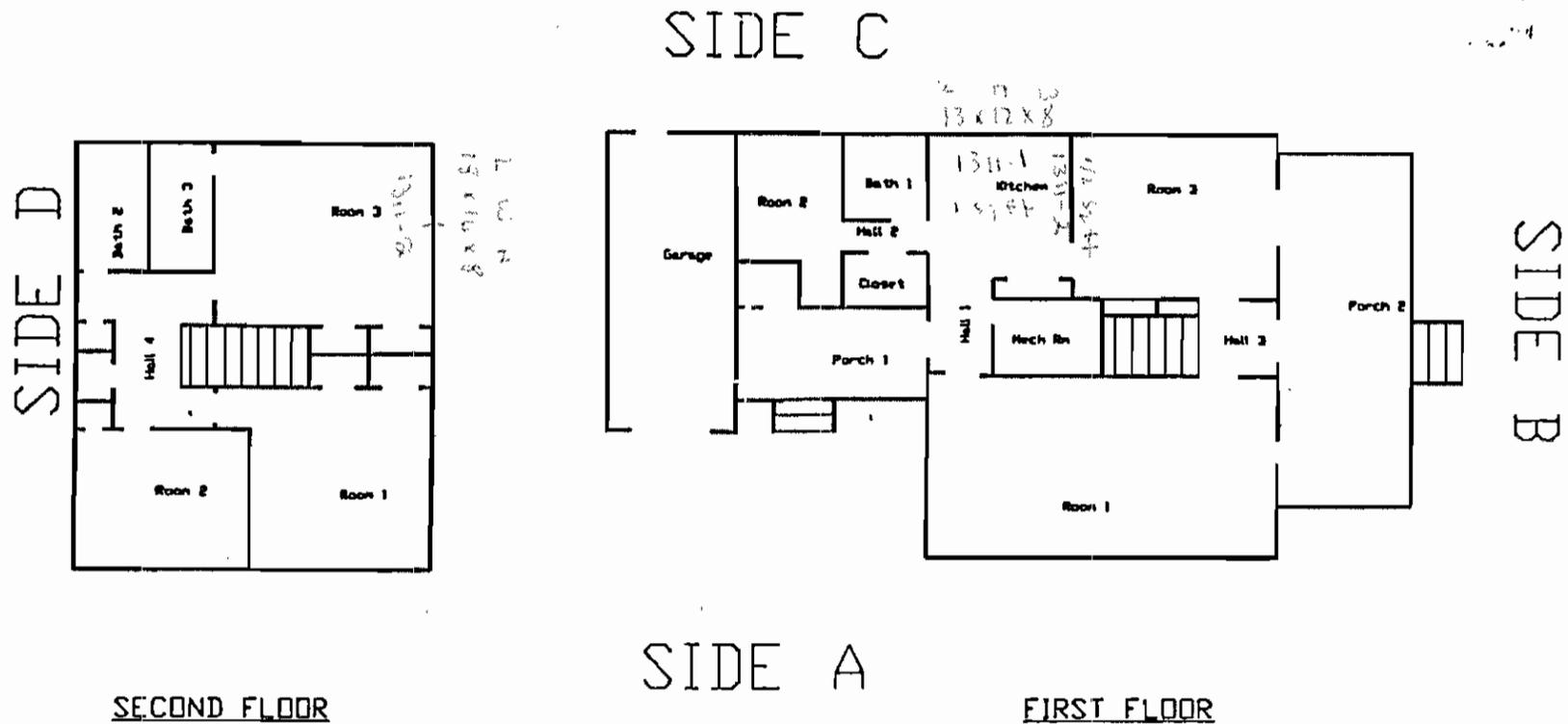
Side A

Handwritten signature

<p>SPORTENVDETHASN 1889 North Hobson Ave. North Charleston, SC 29405-2108 Ph. (803) 743-8777</p>	<p>Floor Plan Qtrs II 1310 Avenue H Charleston Naval Complex Charleston, SC</p>		
	<table border="1"> <tr> <td data-bbox="1323 1502 1638 1546">DWG DATE: 3 Mar 98</td> <td data-bbox="1638 1502 1957 1546">DWG NAME: Qtrs II</td> </tr> </table>	DWG DATE: 3 Mar 98	DWG NAME: Qtrs II
DWG DATE: 3 Mar 98	DWG NAME: Qtrs II		

Figure 29-a, Quarters II, Floorplan 689

- 1311-1 Kitchen Ceiling - substrate sheetrock - Change by water damage 1 sq ft
- 1311-2 Bedroom #3 Base board - (B wall) substrate - wood - 1/2 sq ft
- 1311-3 Kitchen (A wall) Vent substrate - Metal - 1/2 sq ft.



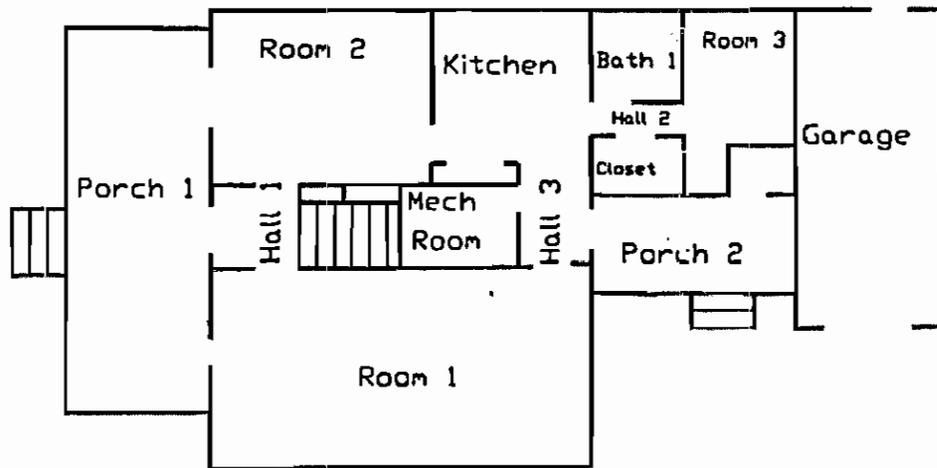
Wallpaper in Bathroom and Kitchen except for ceiling & doors, + Molding
 Hermynis white paint throughout the house
 Overall New paint job and very good condition

SPORTENVDETSASN 1899 North Hobson Ave. North Charleston, SC 29405-2108 Ph. (803) 743-6777	Floor Plan (Type HD-23) 1311 AVE. "G" QUARTERS (BB) Charleston Naval Complex Charleston, SC
	DWG DATE: 12 MAR 98 DWG NAME: Qtrs-BB

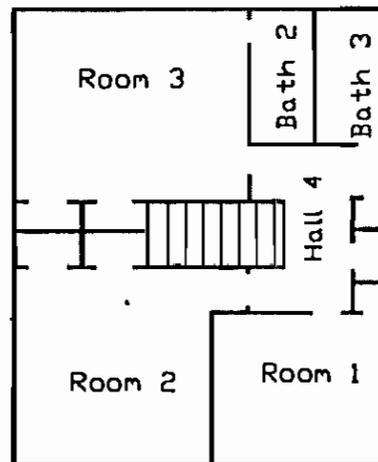
Figure 22-a, Quarters BB, Floorplan
572

SIDE C

SIDE B



FIRST FLOOR



SECOND FLOOR

SIDE D

SIDE A

Normysen white paint
 wallpaper in kitchen + Bathrooms will's not of color
 no sign of flaking paint, off time of inspection
 New paint job

SPORTENVDETHASN
 1800 North Hobson Ave.
 North Charleston, SC
 29405-2108
 Ph. (803) 743-6777

Floor Plan (Type HD-23)
 1345 AVE. "G" QUARTERS (AA)
 Charleston Naval Complex
 Charleston, SC

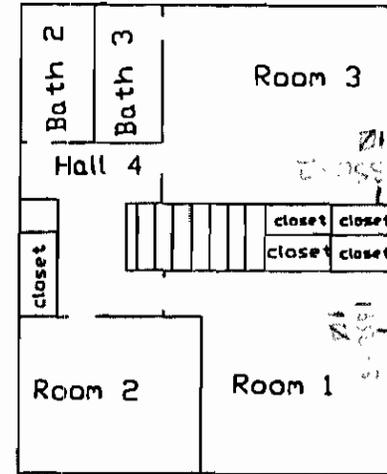
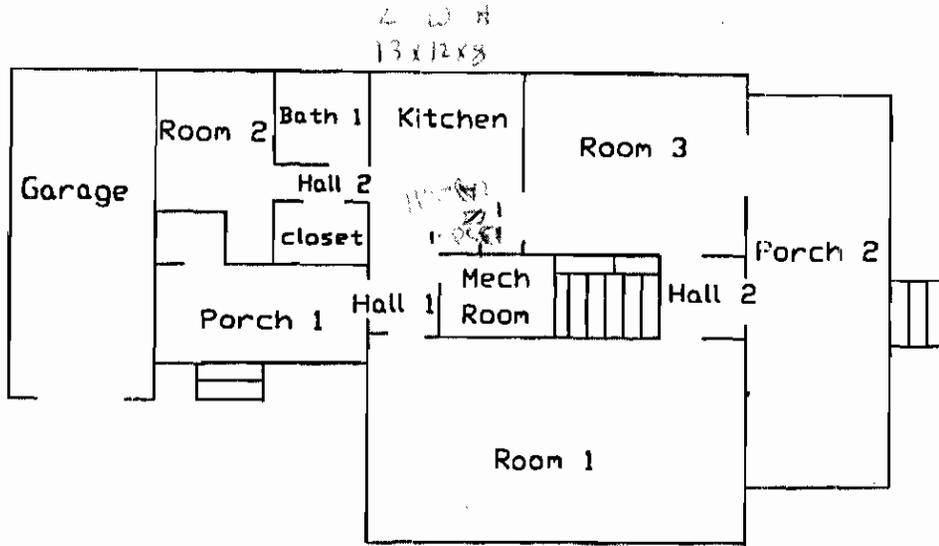
DWG DATE: 12 MAR 98

DWG NAME: Qtrs-AA

See note on ~~back~~ front

Figure 21-a, Quarters AA, Floorplan

Side C



Side D

FIRST FLOOR

SECOND FLOOR

Kitchen - cover with wallpaper / w/ molding and closet area are painted.
 Bathroom walls cover with wallpaper 1, 2, + 3
 Substrate wood kitchen
 Hemingons paint work through out the house
 wall (Kitchen) wall (Room 3)
 1350-1 (A) second closet / 1350-2 (C) First closet area side edge / 1350-3 (B) Bathroom
 CRUSE as planning
 Overall - very good
 new paint job

Side A

SPORTENVDECHASN
 1899 North Hobson Ave.
 North Charleston, SC
 29405-2108
 Ph. (803) 743-8777

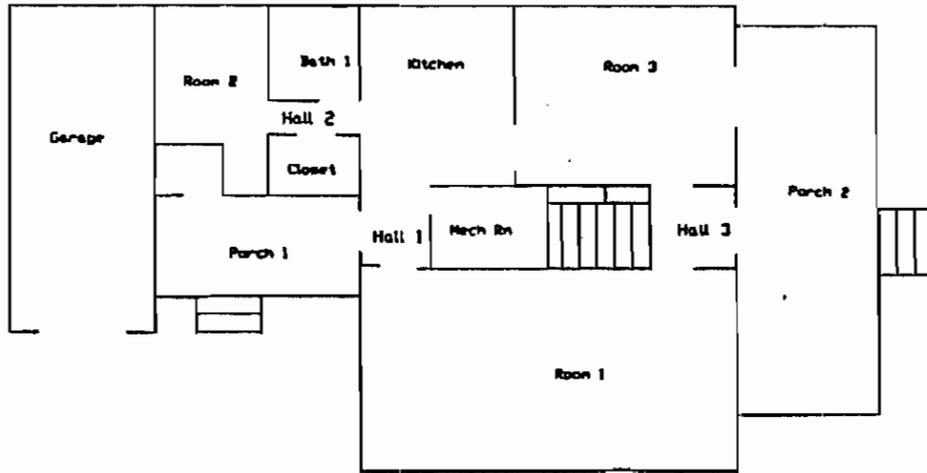
Floor Plan Qtrs JJ
 1350 Avenue H
 Charleston Naval Complex
 Charleston, SC

DWG DATE: 3 Mar 98

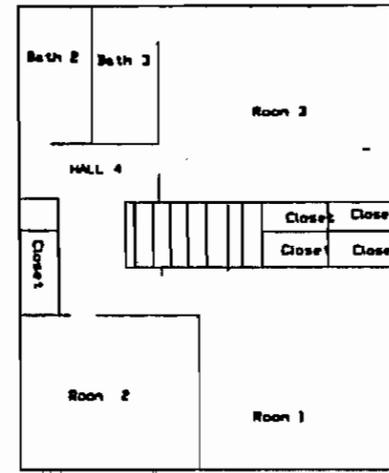
DWG NAME: Qtrs JJ

B
S
K
I
S

Side C



FIRST FLOOR



SECOND FLOOR

Side B

Side D

Side A

Homogenous white paint
 wallpaper in Bathrooms + kitchen walls not on ceiling
 New paint job.
 No sign of flaking paint, at time of inspection

SPORTENVDECHASN
 1809 North Hobson Ave.
 North Charleston, SC
 29405-2108
 Ph. (803) 743-8777

Floor Plan Qtrs LL
 1351 Avenue G
 Charleston Naval Complex
 Charleston, SC

DWG DATE: 3 Mar 98

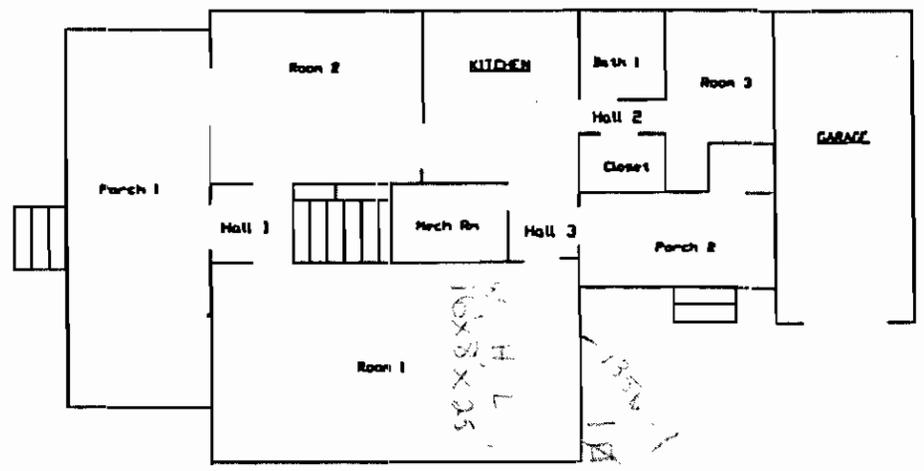
DWG NAME: Qtrs LL

Figure 32-a, Quarters LL, Floorplan

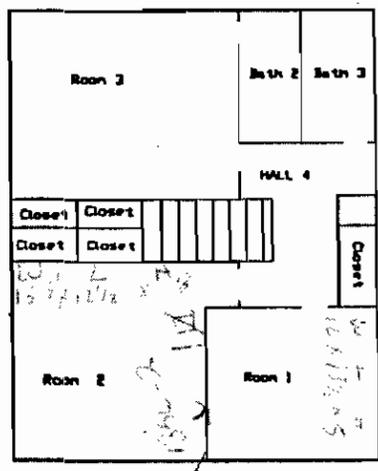
Side C

Side D

Side B



FIRST FLOOR



SECOND FLOOR

Side A

SPORTENVDECHASN
 1899 North Hobson Ave.
 North Charleston, SC
 29405-2108
 Ph. (803) 743-8777

Floor Plan Qtrs KK
 1356 Avenue H
 Charleston Naval Complex
 Charleston, SC

DWG DATE: 3 Mar 98 DWG NAME: Qtrs KK

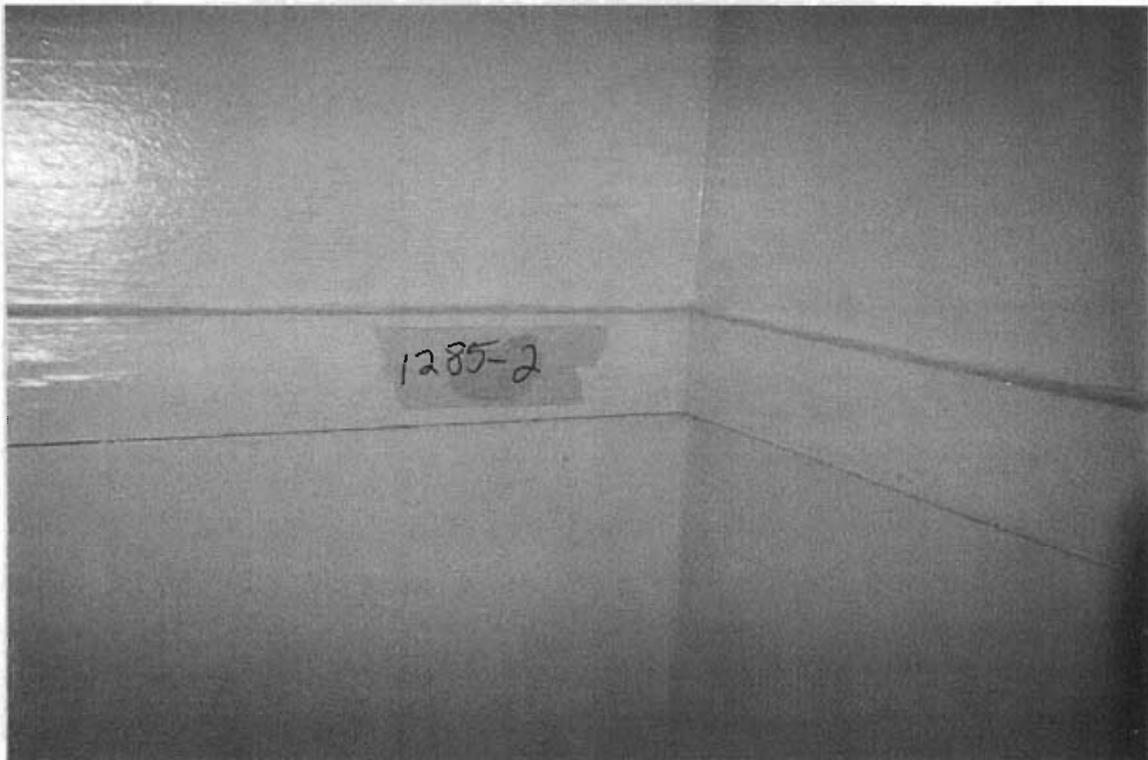
Figure 31-a, Quarters KK, Floorplan
 718

PHOTO LOGS

1285 AVENUE "G" QUARTERS GG

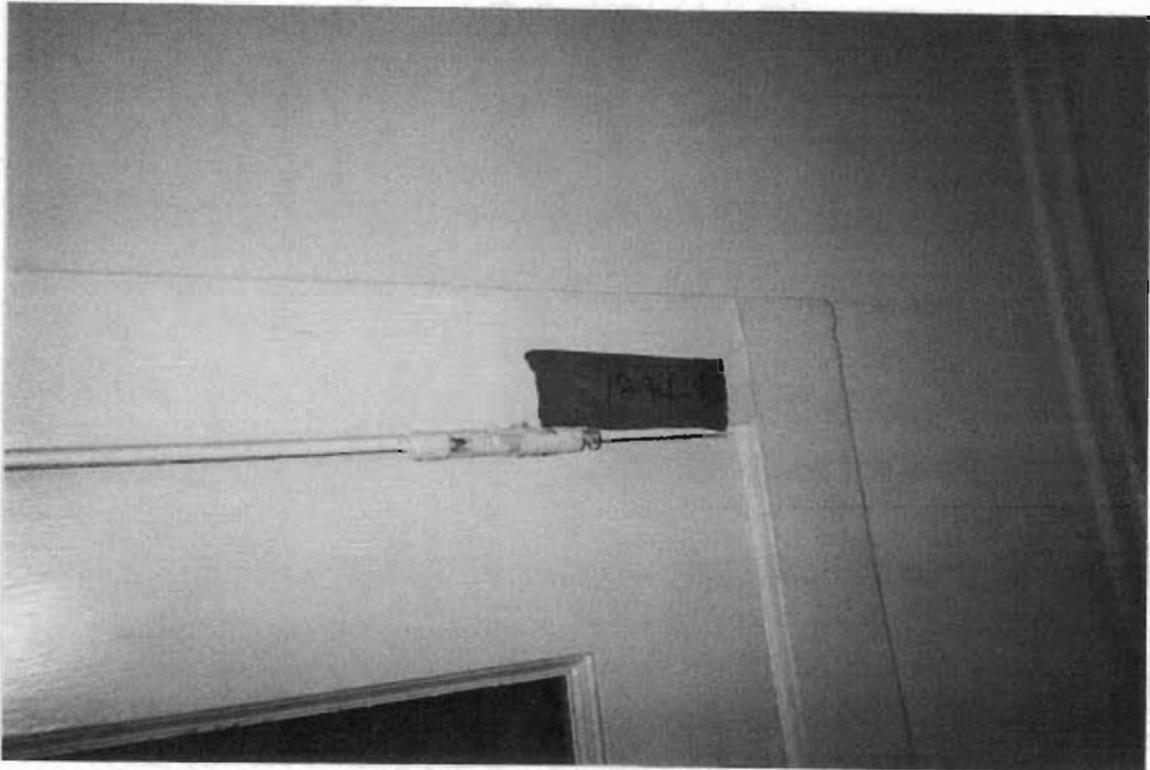


SAMPLE # 1285-1 STAIRCASE LEFT SIDE



SAMPLE # 1285-2 ROOM # 1 WALL D

1294 "H" QUARTERS (GG)



SAMPLE # 1294-1 ROOM # 1, WALL - B (LIVING ROOM; PORCH DOOR



SAMPLE # 1294-2 BATHROOM # 1, CEILING

1294 AVENUE "H" QUARTERS (GG)

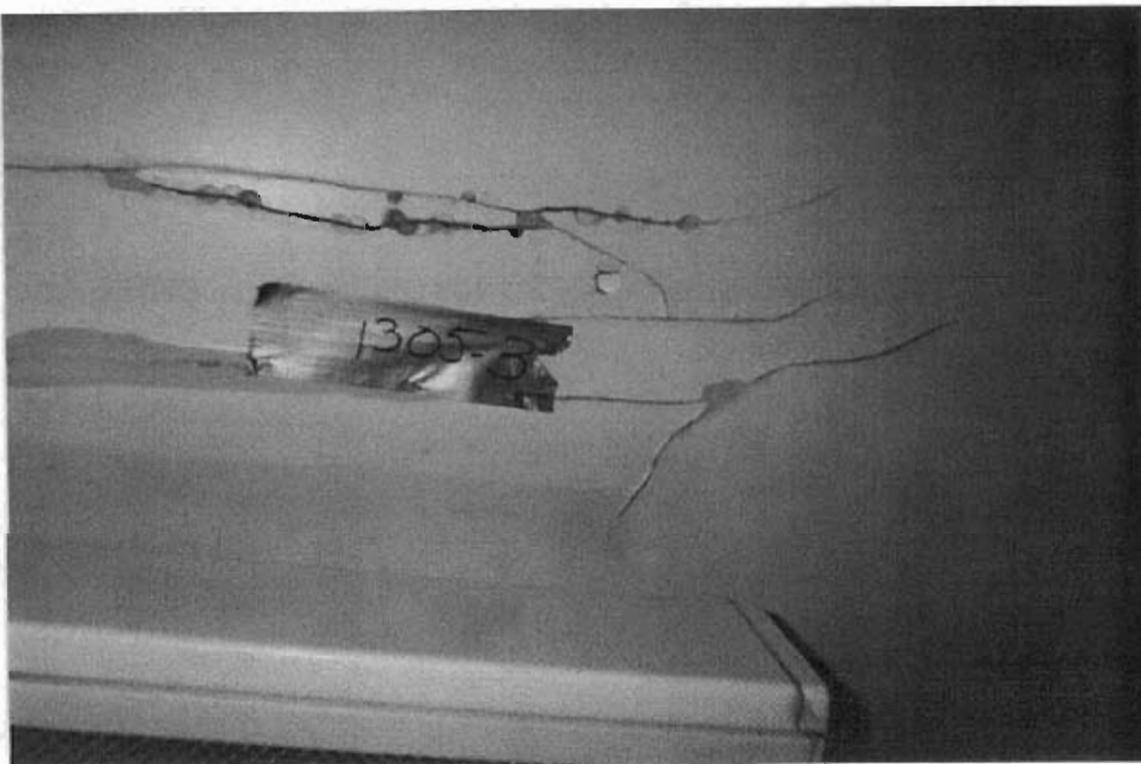


SAMPLE # 1294-3 BEDROOM # 2 B-WALL

1305 AVE. G QUARTERS (CC)



SAMPLE # 1305-2 BATHROOM #1, INTERIOR DOOR



SAMPLE # 1305-3, KITCHEN CEILING

1311 AVENUE "G" QUARTERS (BB)

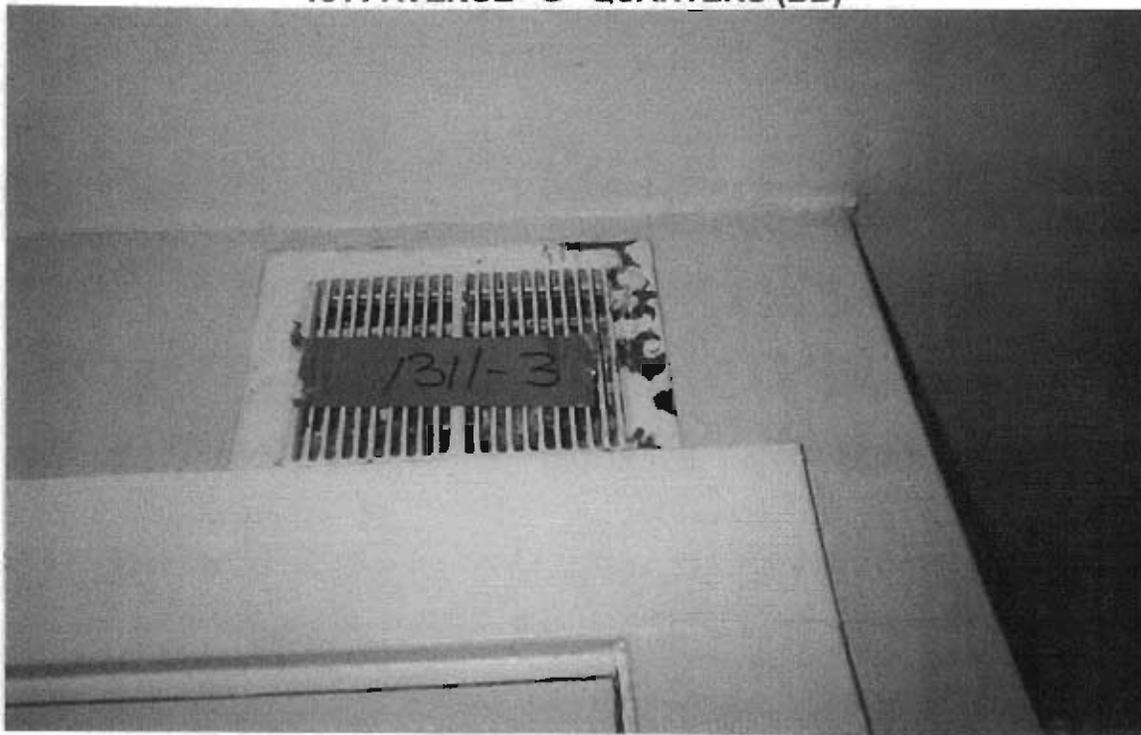


SAMPLE # 1311-1 KITCHEN CEILING

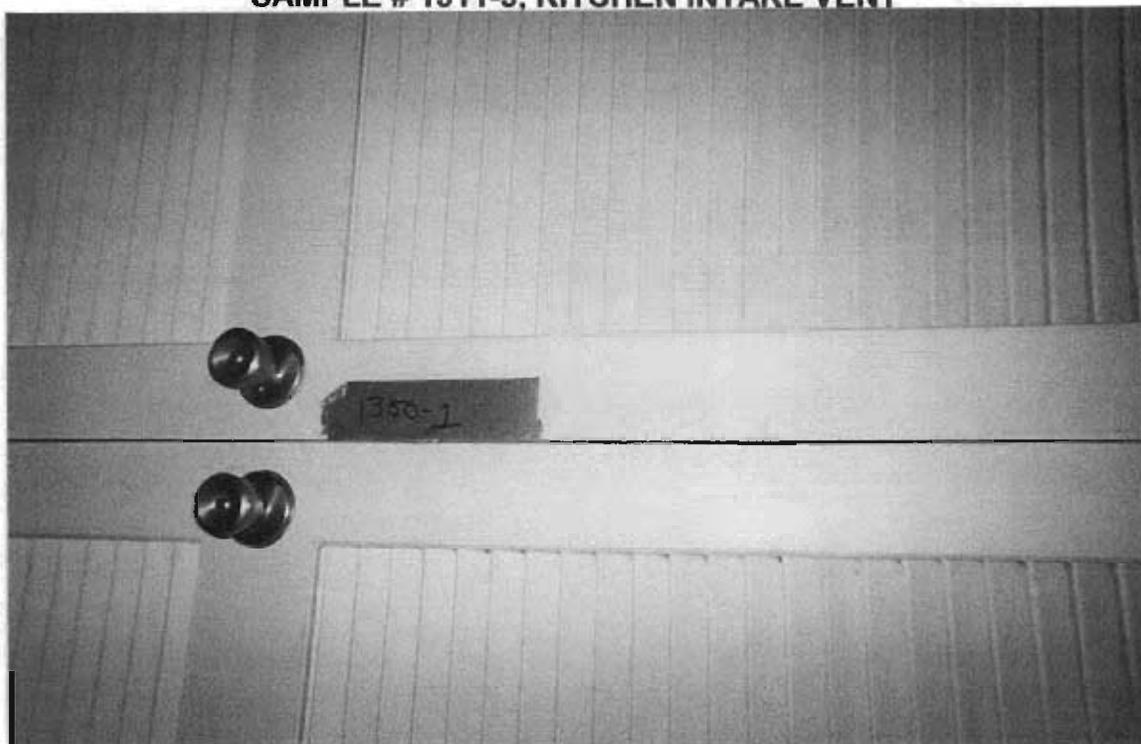


SAMPLE # 1311-2 BEDROOM # 3, BASEBOARD, WALL C

1311 AVENUE "G" QUARTERS (BB)



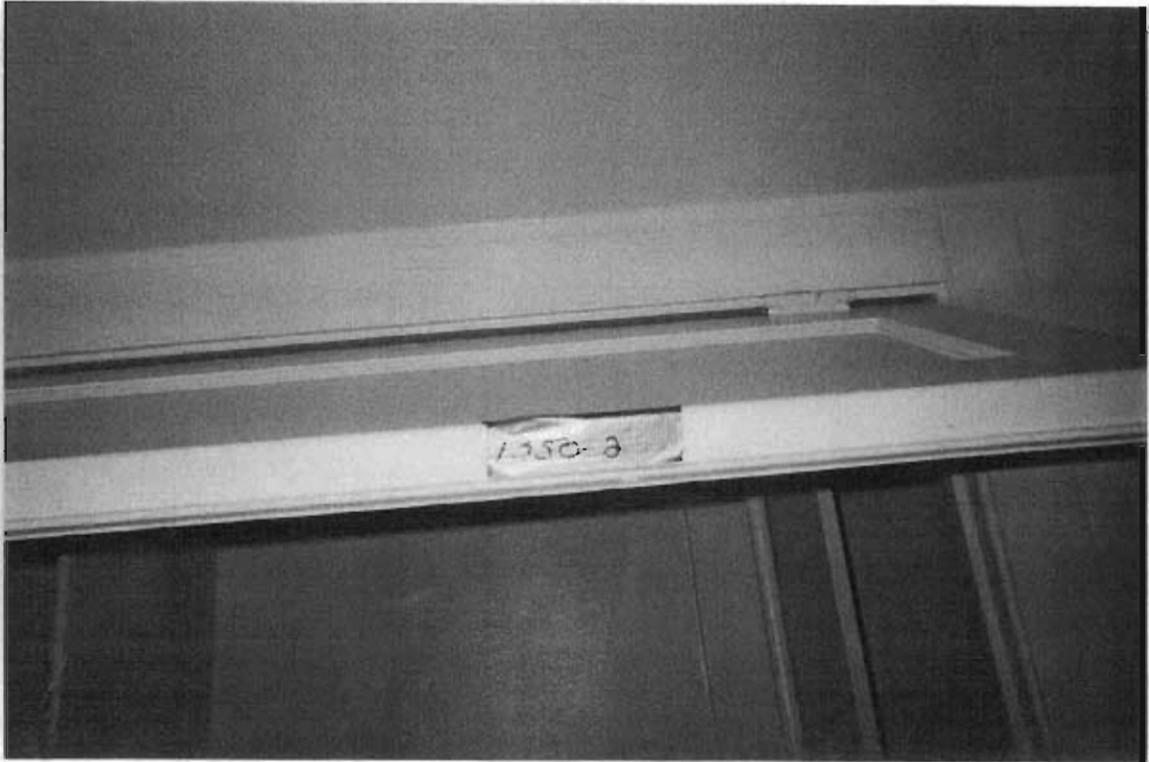
SAMPLE # 1311-3, KITCHEN INTAKE VENT



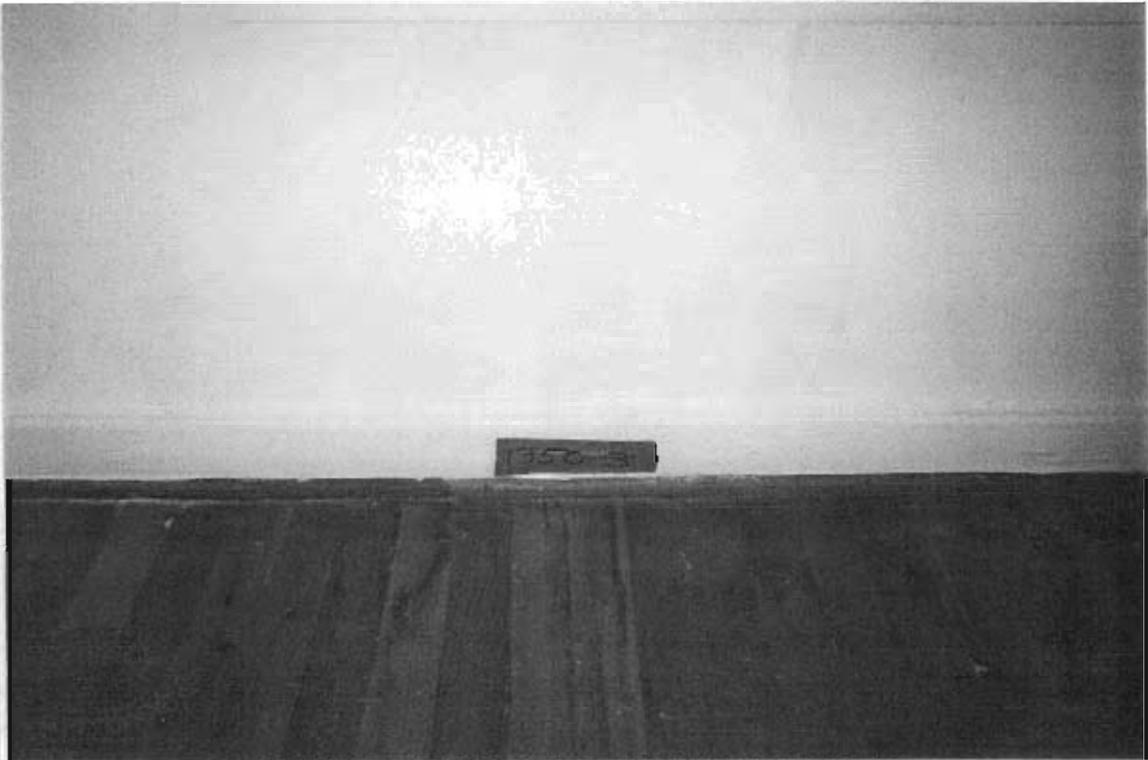
1350 AVENUE H, QUARTERS (JJ)

SAMPLE # 1350-1, KITCHEN CLOSET MECHANICAL ROOM DOOR

1350 AVENUE H, QUARTERS (JJ)



SAMPLE # 1350-2, ROOM 3, CLOSET DOOR EDGE

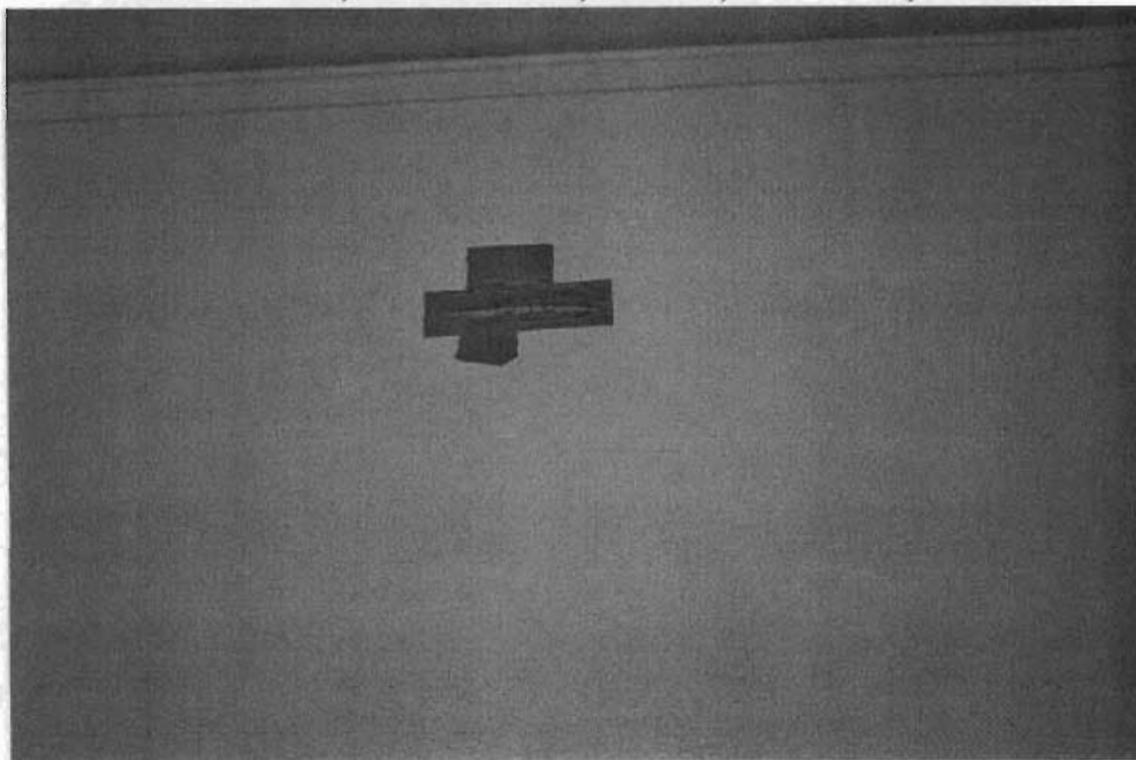


SAMPLE # 1350-3, ROOM 1, BASEBOARD

1356 AVENUE H QUARTERS (KK)



SAMPLE # 1356-2, BEDROOM # 1, WALL D, 2ND FLOOR, ROOM 1D



SAMPLE # 1356-3, BEDROOM # 2, WALL D, ROOM 2B