

REQUEST FOR PROPOSALS  
ENGINEERING SERVICES FOR  
FIRE SUPPRESSION AND ALARM SYSTEM REPLACEMENTS  
FOR THE  
LIFESTEPS CAMPUS BUILDINGS 'E' AND 'C'  
CASPER, WYOMING

Date: May 24, 2016

Fee proposals are being requested from qualified engineering consultants to furnish design, bidding and construction administration services for the Lifesteps Campus Buildings 'E' and 'C' Fire Suppression and Alarm System Replacement Project, Project No. 16-023".

**Such proposals will be received by the City of Casper Public Services Department, City Engineering Division, 200 North David, Casper, Wyoming, until 5:00 p.m., Local time, June 17, 2016.**

**PROJECT DESCRIPTION.**

Buildings 'E' and 'C' at the City of Casper Lifesteps Campus are both multi-story structures, located at 1514 East 12th Street, Casper, Wyoming (See Attachments for Lifesteps Campus Site Map). Building 'E' has a total floor area of approximately 19,000 square feet consisting of office, housing and daycare spaces. Building 'C' has a total floor area of approximately 11,250 square feet consisting of troubled juvenile housing and offices. This project includes design, bidding and construction administration services for the removal and replacement of the piping, sprinkler systems, and alarms/smoke detection in both buildings and related work necessary for a complete fire protection and suppression system for both buildings that will meet all required codes.

**This project is federally funded, and the Department of Housing and Urban Development (HUD) and Davis Bacon regulations will be required to be followed (See Attachments for Federal Labor Standards Provisions).**

As-builts of the fire suppression systems for these buildings are included as attachments to this Request for Proposal (RFP). Please contact Alex Sveda (307 235-8341) at the City of Casper Engineering Office, Casper City Hall, 200 North David Street, Casper, WY 82601 for any questions regarding the requirements of this RFP. Please contact Joy Clark (307 235-8219) at the City of Casper Community Development Office, Casper City Hall, 200 North David Street, Casper, WY 82601, to arrange for a site visit.

**SCOPE OF SERVICES**

The Consultant shall perform the following services in connection with and respecting the Project. Consultant shall understand the purpose of this contract will be to prepare design documents so that the project can be publicly bid in accordance with Wyoming State Statutes.

A. Design

1. The Consultant shall perform investigations to identify needs and obtain information necessary to design each aspect of the project. The Consultant shall provide a brief summary report describing viable systems and make recommendations.
2. The Consultant shall provide all services for the project necessary to achieve complete installations, including structural, mechanical, electrical and related work.
3. The Consultant shall prepare bidding and construction documents as necessary, including drawings, technical specifications and related items. Documents shall be provided for all necessary aspects of the work including structural, mechanical, and electrical work including plans, details, equipment schedules and schematics.
4. The Consultant shall provide and submit the documents to the local authorities having jurisdiction (AHJ) and correct or clarify the documents based on comments received. The AHJ includes, but is not limited to, Local Fire Departments, Casper Building Inspection, Casper Community Development and Casper Housing Authority. The Consultant shall meet with and communicate with the AHJ to the extent necessary to ensure plans and specifications are in compliance with applicable codes and NFPA requirements before public advertisement of the project.
5. Consultant shall include new “ant-ligature” plumbing and sprinkler fixtures in the design.
6. The City of Casper may hire a separate Environmental Consultant to provide a study and report of any existing hazardous materials related to all demolition and construction of the project. The Environmental Consultant will provide an abatement recommendation to include in the project manual. Consultant shall assist and coordinate with Environmental Consultant in identifying areas of the existing building affected by the demolition and construction of the project.
7. It is anticipated that Lifesteps Campus Buildings ‘E’ and ‘C’ will be occupied during demolition and construction of the project. The Consultant shall provide recommendations for phasing the demolition and construction of the project so as to keep the healthiest/safest allowable occupancy of the building by tenants during the project.
8. The Consultant shall prepare a project cost estimate when plans are approximately fifty percent (50%) complete, and again two (2) weeks prior to public advertisement.

B. ComputerAided Drafting Format.

The Consultant shall prepare final drawings on a computer aided drafting format. Digital format shall be in AutoCAD and PDF and be compatible with existing City system.

C. Project Manual.

1. The Consultant shall prepare a Project Manual to include the following:
  - a. Technical Specifications.
  - b. Bid Schedule to accompany City's Bid Form. Bid schedule shall include a line item for abatement of hazardous materials related to the demolition and construction of the project.
  - c. Edited by the Consultant "front end" documents of the Project Manual supplied by the City Engineering Office. Documents supplied will consist of Advertisement for Bids, Instruction to Bidders, Performance and Payment Bonds, Bid Bond and Form, Agreement between Owner and Contractor, General Conditions, Supplementary Conditions and HUD/Davis Bacon requirements, hazardous material study/report/abatement recommendation. Consultant shall review these documents and insert modifications where necessary.
  - d. Drawings.

Consultant shall submit four (4) paper copies of Project Manuals to the City of Casper Engineering Office at ninety-five (95%) completion for review with the project cost estimate, 2 weeks prior to public advertisement. All Technical Specifications, Bid Schedules and "front end" documents shall be 8.5"x11", and all Drawings shall be 11"x17".

2. The Consultant shall affix his professional engineer's stamp, date, and signature to the front cover of the project manual and in accordance with Wyoming State Registration Statutes.

D. Subconsultants.

1. The Consultant shall be responsible to procure any necessary sub-consultant to complete the work.
2. The City and Consultant shall mutually approve, in writing, the use of any subconsultants that the Consultant desires to use.

3. The Consultant shall be responsible for the administration, management, procurement, and payment of services provided by subconsultant(s).

E. Advertising and Bidding Phase.

1. The Consultant shall utilize and maintain project information with City of Casper's QuestCDN website for the following: advertisement, distributing addenda and bidding information to planholders, uploading project documents including all plans and specifications, and distributing bid tabulations to planholders.
2. The Consultant shall arrange for and conduct a prebid conference ten (10) days prior to the bid opening. The Consultant shall take minutes of the meeting and distribute them through QuestCDN.
3. The Consultant shall assist the City in opening, tabulating, and evaluating bids. Consultant shall assist in evaluating if all HUD/Davis Bacon requirements have been met by bids submitted.
4. The Consultant shall provide a written opinion to the City showing their recommendations for awarding the bid.
5. The Consultant shall provide the City Engineering Office a copy of final drawings in AutoCAD and PDF format. The Consultant shall provide the City Engineering Office a copy of the final contract specifications in Microsoft Word format.

F. Construction Phase:

1. The Consultant shall conduct a pre-construction meeting with the Contractor at the jobsite to review each work item, construction quality control, and phasing of the work.
2. The Consultant shall review shop drawings and material sample submittals for conformance with the intent of the design documents.
3. The Consultant shall make visits to the job-site at intervals appropriate to the various stages of construction to observe the progress and quality of the contractor's work.
4. Consultant shall provide for, and retain, a sub-consultant for material testing as specified in the Contract Documents.
5. The Consultant shall attend progress meetings.
6. The Consultant shall issue necessary interpretations and clarifications of the contract documents and assist in the resolution of problems or conflicts due to unforeseen latent conditions.

7. The Consultant shall review contractor pay requests and advise City accordingly.
8. The Consultant shall prepare all reports required by the HUD Grant.
9. Contractor(s)' Completion Documents. Consultant shall receive and review tests and approvals which are to be assembled by Contractor(s) in accordance with the Contract Documents (but such review will only be to determine that their content complies with the requirements of, and in the case of tests and approvals the results certified indicate compliance with, the Contract Documents), and shall transmit them to Owner with written comments.
10. Walk-Through. Consultant shall conduct a walk-through with the City to determine if the Work is Substantially Complete and a final walk-through to determine if the completed work is acceptable so that Consultant may recommend, in writing, final payment to Contractor(s) and may give written notice to Owner and the Contractor(s) that the Work is acceptable.
11. The Consultant shall prepare a punchlist near project completion and conduct a final project review of punchlist items addressed by the contractor in conjunction with Walk-Through.
12. Record Drawings. Consultant shall provide the Owner one (1) set of electronic drawings showing those changes made during the construction process, based on the marked-up prints, drawings, and other data furnished by Contractors to Consultant and which Consultant considers significant. Consultant shall also maintain a regularly updated set of "as-constructed" blueprints indicating Consultant(s)' observations of "as-constructed" Work performed by the Contractor(s). Within thirty (30) days of Substantial Completion, Consultant shall submit one (1) reproducible set of 11"x 17" record drawings to Owner. Consultant shall also provide to Owner a copy of record drawings in PDF and Autocad (in conformance with City of Casper and United States National CAD Standards). format compatible with the Owners system, labeled as "Record Drawings - Lifesteps Campus Buildings 'E' and 'C' Fire Suppression and Alarm System Replacement Project, Project No. 16-023".
12. Warranty Period Inspections. Consultant shall perform warranty period inspections for completed construction, during a one (1) year period after Final Completion of the construction phase. Warranty inspections shall include, but not be limited to, assisting Owner in addressing complaints concerning construction deficiencies during the warranty period, attending an on-site project inspection walk-through of the project and preparing a listing of noted construction deficiencies at approximately eleven (11) months after the Final Completion date for construction, and follow-up.
13. Change Orders. Consultant shall evaluate and make recommendations for all

requests for change orders during the construction of the Work. Consultant shall prepare and submit construction change orders along with all necessary documentation to the Owner for approval.

## FEE

In submitting a proposal for this project, the consultant shall prepare and enclose **In A Separate Sealed Envelope** a detailed fee schedule with an upset (not to exceed) amount for the services as covered by the Scope of Services in this RFP. The fee schedule shall be broken out with a separate fee for services through Advertising and Bidding Phase and a separate fee for Construction services. Selection of a Consultant to provide services for this RFP shall be based on professional qualifications based criteria; however, the Consultant's fee schedule will also be considered as an additional qualification in the selection process.

The fee shall be based on estimated time and material, including hourly rates for technical personnel, with an upset (not to exceed) amount. If at any time during the term of this contract appears that the upset amount will be exceeded, the Consultant shall immediately notify the City and provide a complete statement justifying the anticipated change in the contract fee. An amendment authorizing any increased fee can only be approved by the City Council. The amendment must be approved before the commencement of any additional work. A change in the scope of work will be the only justification for a change in the contract fee.

The Consultant shall be responsible and responsive to the City in its requests and requirements within the scope of this proposal.

The Consultant shall be registered at [www.sam.gov](http://www.sam.gov) in order to be paid with federal funds.

## TIMETABLE

Following is the tentative timetable for this RFP:

- |    |  |                   |
|----|--|-------------------|
| 1. | Proposal Due   | June 17, 2016     |
| 2. | Consultant Interview   | June 22, 2016     |
| 3. | Selection of Consultant by City Council                          | July 19, 2016     |
| 4. | Completion of Design Services<br>through Final Bidding Documents | September 2, 2016 |
| 5. | End of Construction Services                                     | March 2, 2017     |

The submittal of a proposal will be an indication that the Consultant has no problem in keeping this schedule.

## MEETINGS

The Consultant shall attend any special meeting with City staff, relating to the performance of this contract, and shall provide the City with monthly written progress reports, accompanying partial

payment requests. Progress reports shall include personnel utilization and associated time applied to the project, in addition to an itemization of expenses.

## CONTRACT

The Consultant will be required to sign a contract with the City relating to the work to be performed. Such contract shall include, but not necessarily be limited to, the following articles: method of compensation, time of performance, subcontracts, duties of the consultant, termination of the contract, ownership of material, changes, EEO, ADA, submission of material, and obligations of the City.

## SELECTION.

The selection of the consulting firm will be based upon project team qualifications, team management/organization, ability of firm to recognize design opportunities in the project, demonstrated design experience, willingness to meet time requirements, community involvement of the firm. A minimum of three (3) firms will be interviewed by the City staff on the basis of the proposal submittals. Upon completion of these interviews, one firm will be selected on the basis of their qualifications and fee.

The procedure for considering the priced proposal will be that a minimum of three (3) firms will be chosen based on the above qualifications-based criteria, excluding consideration of the fee proposal. Upon selection of the firms, the fee proposals for these firms shall be opened and analyzed by the City. The City will prepare a written summary of the price proposals to be distributed to the Selection Committee prior to the Consultant interviews. Price proposals for Consultants not short-listed shall be returned unopened to the Consultant. No prospective proposer shall withdraw his proposal for a period of sixty (60) days after the deadline for proposal submittals.

In making a proposal, the Consultant hereby certifies that he has reviewed this RFP and is familiar with all conditions contained therein.

## GENERAL.

### A. Additional Information.

In addition to the items addressed in the Scope of Services, the following information relating to the consultant's qualifications is required. The Consultant shall submit five (5) copies of the non-priced technical proposal.

1. The consulting firm's name, address, and telephone number.
2. Types of services which your firm is qualified to provide.
3. Names of key personnel, the experience of each available for this project.
4. Names and addresses of outside consultants or associates which will be retained for

assistance.

5. Number and type of current projects for which the firm is principal engineer.
6. Recent list of completed projects most similar to this project, including key contacts and references, approximate budget, and other pertinent information.

One (1) Fee proposal with upset (not to exceed) amount in a separate sealed envelope shall be submitted with the set of five (5) non-priced technical proposals. The envelope containing the price proposal shall be labeled "LIFESTEPS CAMPUS BUILDINGS 'E' AND 'C' FIRE SUPPRESSION AND ALARM SYSTEM REPLACEMENT PROJECT-PRICE PROPOSAL." The price proposal shall be signed by an authorized representative of the Consultant offering the proposal.

B. Addendum or Supplement to Request for Proposal.

In the event that it becomes necessary to revise any of this Request for Proposal (RFP), an Addendum to this RFP will be provided to each Consultant. The City reserves the right to change submission date(s) for any reason, including an Addendum or Supplement to the RFP.

C. Late Proposals.

Late proposals will not be accepted. It is the responsibility of the Consultant to insure that the proposal arrives prior to 5:00 p.m., Local Time, Tuesday, June 17, 2016.

D. Rejection of Proposals.

The City reserves the right to reject any or all submissions, and to waive informalities and minor irregularities in submissions received, and to accept any portion of a proposal or all items if deemed in the best interest of the City.

E. Response Material Ownership.

All material submitted regarding this RFP becomes the property of the City and will only be returned to the Consultant at the City's option. Responses may be reviewed by any person after the final selection has been made. The City has the right to use any or all ideas presented in reply to this request. Disqualification of a Consultant does not eliminate this right.

F. Incurring Costs.

The City is not liable for any costs incurred by the Consultant prior to issuance of an agreement, contract, or purchase order.

G. Acceptance of Proposal Content.

The contents of the proposal of the successful Consultant may become contractual obligations if the City wishes to execute a contract based on the submitted proposal. Failure of the successful Consultant to accept these obligations in a purchase agreement, purchase order, contract, or similar instrument may result in cancellation of the award, and such Consultant may be removed from future solicitations.

H. Reference Checks.

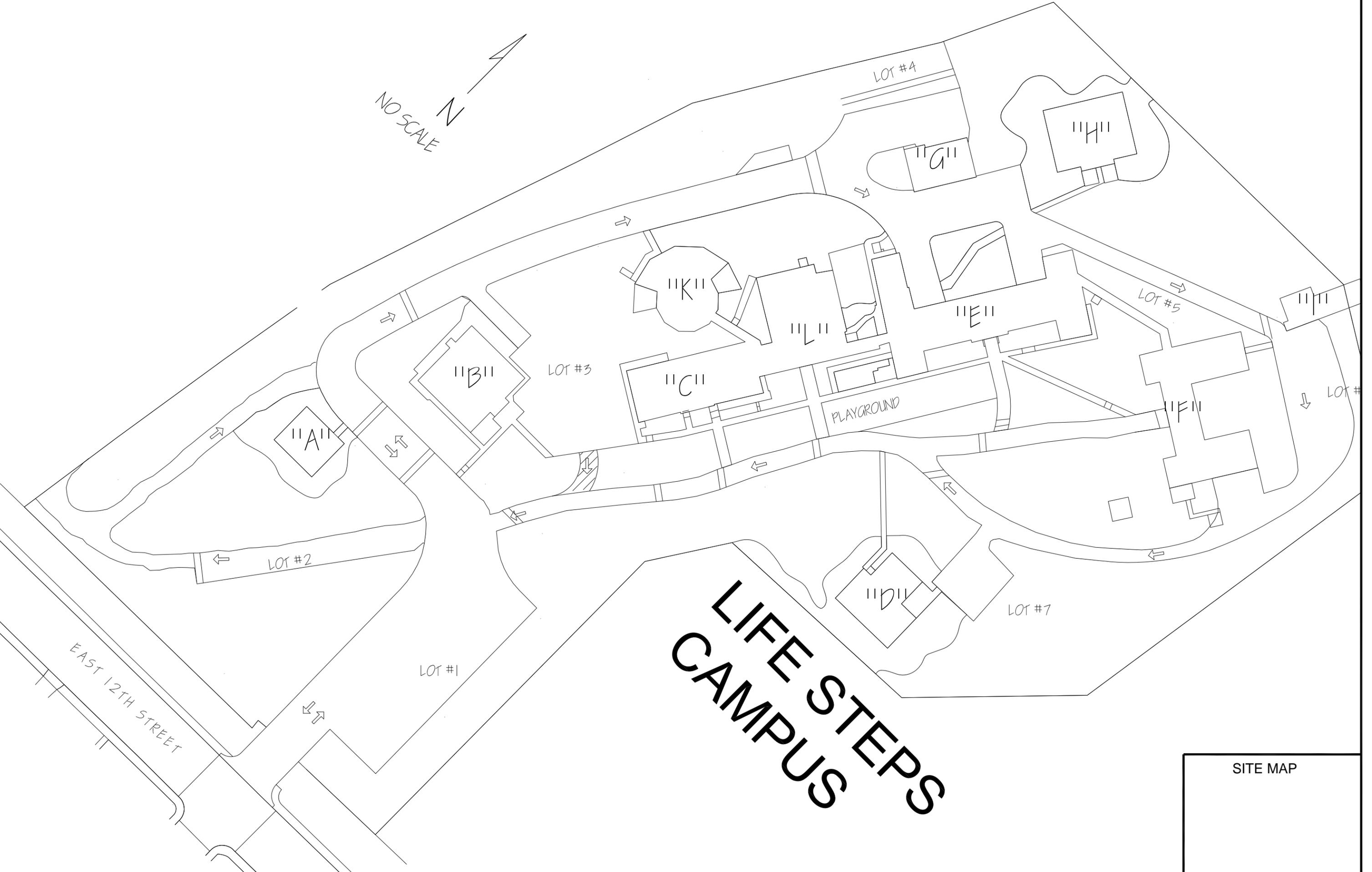
The City reserves the right to contact any reference or any client listed in the documents for information which may be helpful to the City in evaluating the Consultant's performance on previous assignments.

I. Attachments.

Below are attached references. For additional information such as existing fire suppression system hydraulic design information and examples of City of Casper Standard Professional Services Agreements, please contact Alex Sveda (307 235-8341) at the City of Casper Engineering Office, Casper City Hall, 200 North David Street, Casper, WY 82601.

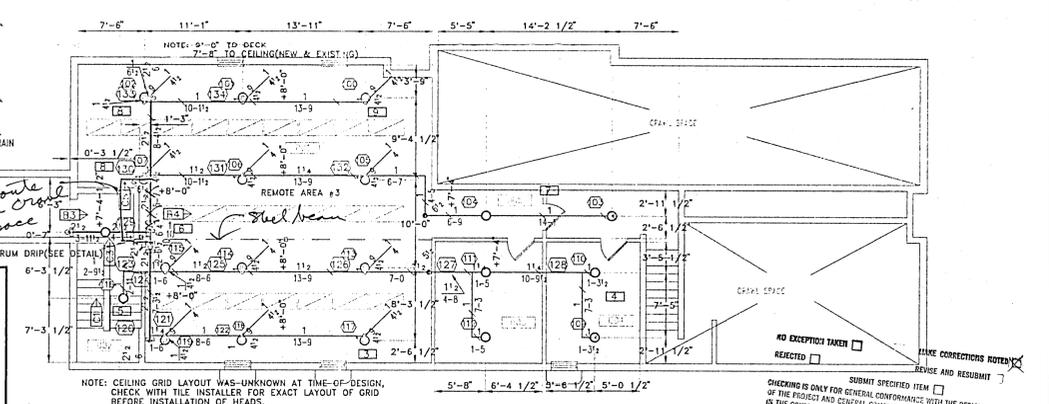
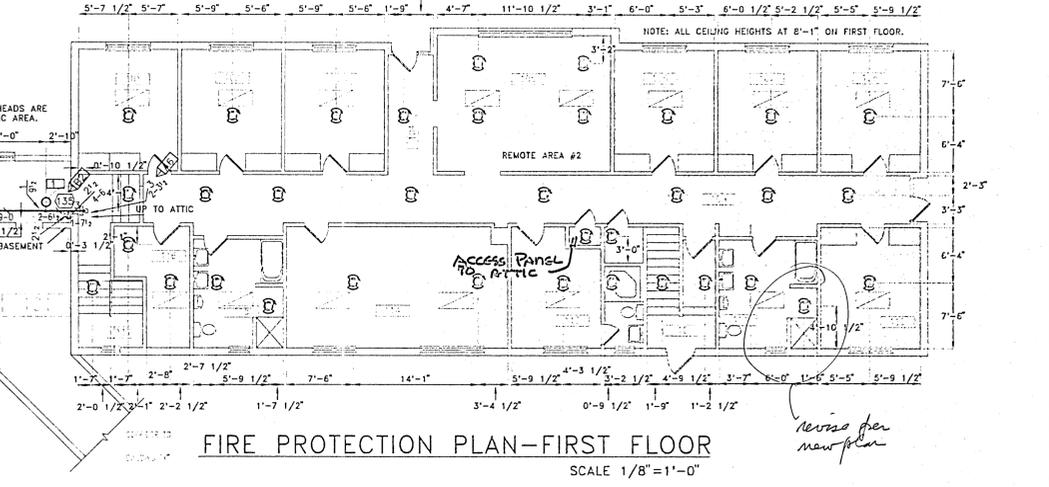
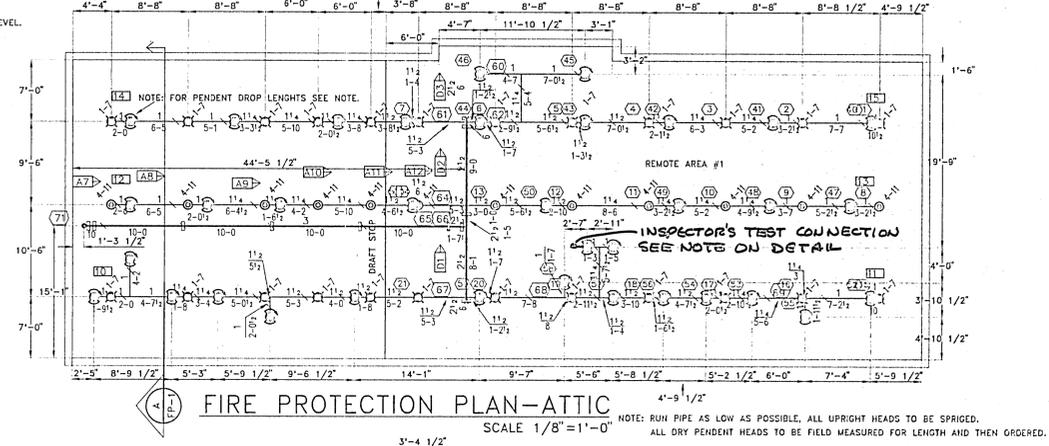
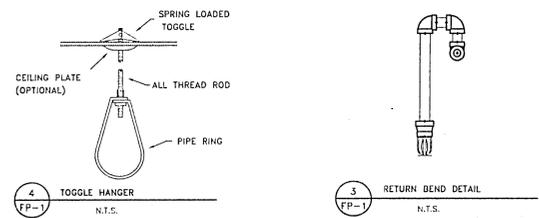
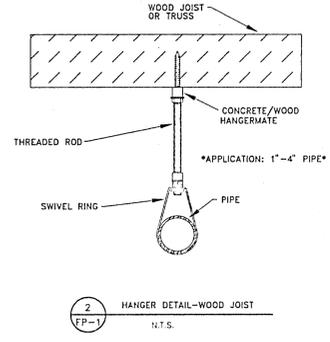
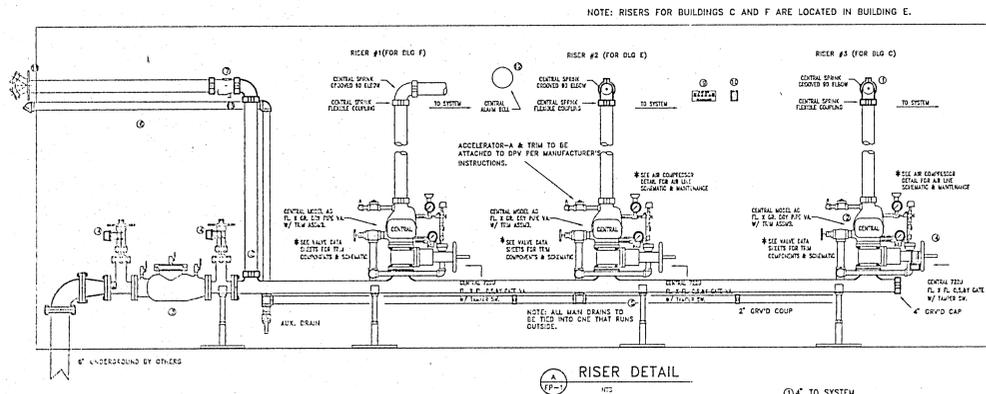
- Lifesteps Campus Site Map
- Building 'C' Drawing FP1 (1997)
- Building 'E' Drawing FP1 (1997)
- Building 'E' Drawing FP2 (1997)
- Building 'E' Drawing FP1 (2010)
- Building 'E' Drawing FP2 (2010)
- Building 'C' Inspection Report
- Building 'E' Inspection Report
- Federal Labor Standards Provisions

NO SCALE  
N



# LIFE STEPS CAMPUS

SITE MAP

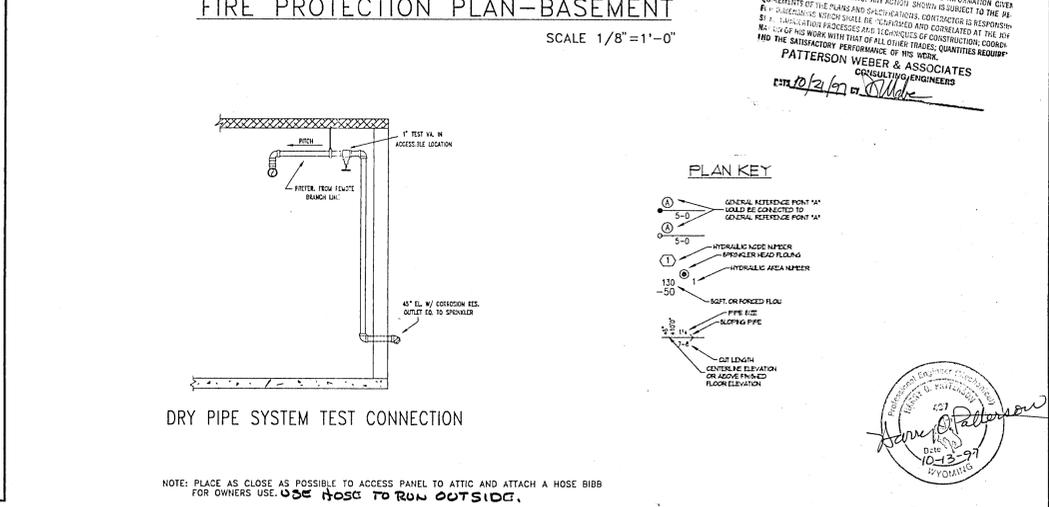
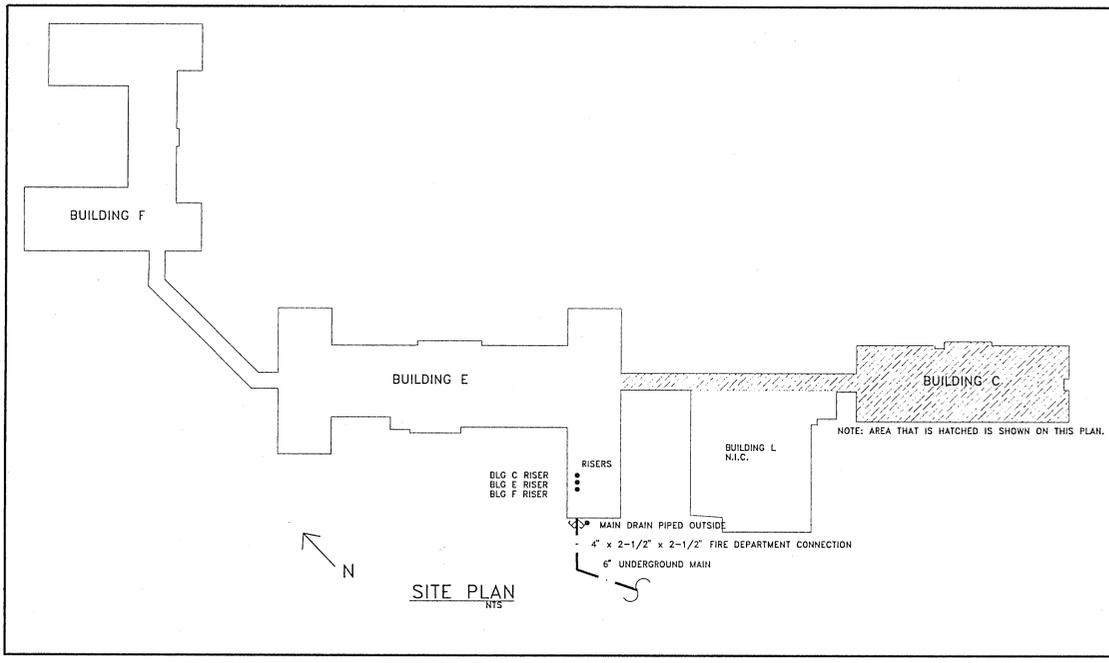


- 1. 1" TO SYSTEM
- 2. 1/2" DRY PIPE VALVE & TRIM
- 3. 1/2" ANES 3000psi BACK FLOW PREVENTOR
- 4. 1/2" CROSBY TAMPER SWITCHES-MODEL 00500-2
- 5. 1/2" PIPE STAND
- 6. 1/2" MAIN DRAIN
- 7. 1/2" CHECK VALVE
- 8. 1/2" TO TIE
- 9. 1/2" SPARE HEAD END
- 10. 1/2" WRITTEN INSTRUCTIONS
- 11. 1/2" 2-1/2" x 2-1/2" FIRE DEPT. CONN
- 12. 1/2" ELECTRIC BELL
- 13. 1/2" BALL DRIP

Hydraulic Remote Area #1  
Occupancy: Light  
Density: .10 gpm/sq.ft. @ 1955 sq.ft.  
Number of Sprinklers Calc'd: 21  
Hose Allowance: 100  
Required @ Base of Riser: 83.6 psi @ 461 gpm  
Available @ Supply: 95.6 psi @ 511 gpm

Hydraulic Remote Area #2  
Occupancy: Light  
Density: .10 gpm/sq.ft. @ 1987 sq.ft.  
Number of Sprinklers Calc'd: 20  
Hose Allowance: 100  
Required @ Base of Riser: 76.3 psi @ 431 gpm  
Available @ Supply: 95.9 psi @ 481 gpm

Hydraulic Remote Area #3  
Occupancy: Light  
Density: .10 gpm/sq.ft. @ 1805 sq.ft.  
Number of Sprinklers Calc'd: 20  
Hose Allowance: 100  
Required @ Base of Riser: 87.4 psi @ 444 gpm  
Available @ Supply: 95.7 psi @ 494 gpm



S/N	QTY	NAME	MATERIAL	TEMP	R	SPRT	ORIF	UPIC	WOOD #	ESQD	CONN.
14	124	Upright	Stress	200	5.60	1/2"	1/2"	CENTRAL	GB-OR	N/A	Thread
12	12	Upright	Stress	200	5.60	1/2"	1/2"	CENTRAL	GB-OR	N/A	Thread
13	13	Upright	Stress	155	5.60	1/2"	1/2"	CENTRAL	GB-OR	N/A	Thread
16	16	Pendent	Chrome	155	5.60	1/2"	1/2"	CENTRAL	GB-OR	SEMI-REC CHR	Thread
15	15	Pendent	Chrome	155	5.10	1"	1/2"	CENTRAL	GB-OR	DRY EXT CHR	Thread

NOTE: TOTAL NUMBER OF HEADS IN DRY SYSTEM IS 100.  
TOTAL CAPACITY OF SYSTEM IS 188 GALS.  
TOTAL AREA PROTECTED BY SYSTEM PER FLOOR IS 3,275 SQ. FT.

- GENERAL NOTES:**
- ALL MATERIAL AND EQUIPMENT TO BE NEW AND UL LISTED OR FM APPROVED.
  - PIPING DIMENSIONS ARE CUT LENGTHS EXCEPT RISERS SHOWN THUSLY (1-6) WHICH ARE END TO END.
  - PIPE HANGERS AND METHOD OF HANGING TO BE IN ACCORDANCE WITH NFPA PAMPHLET 13, APPLICABLE EDITION.
  - PIPING SHALL BE IN ACCORDANCE WITH NFPA PAMPHLET NO. 13, APPLICABLE EDITION.
  - JOINING OF PIPE AND FITTINGS, THREADED AND WELDED, SHALL BE IN ACCORDANCE WITH NFPA PAMPHLET NO. 13, APPLICABLE EDITION.
  - IT IS THE RESPONSIBILITY OF THE OWNER TO PROVIDE HEAT THROUGHOUT WET PIPE SPRINKLER SYSTEM AREAS AND IN ENCLOSURES FOR DRY PIPE DELUGE AND OTHER VALVES CONTROLLING WATER SUPPLIES TO SPRINKLER SYSTEMS.
  - ALL UNDERGROUND FIRE MAINS, WIRING & MONITORING OF ALARMS AND CLEANING & PAINTING OF PIPE IS BY OTHERS.
  - AT THE COMPLETION OF THE PROJECT:
    - ALL VALVES SHALL BE LABELED.
    - HYDRAULIC PLACARDS SHALL BE INSTALLED ON THE RISER.
    - A SPARE HEAD CABINET SHALL BE INSTALLED ADJACENT TO THE RISER CONTAINING A SPRINKLER WRENCH AND NOT LESS THAN 5 SPRINKLERS.
    - THE OWNER SHALL BE INSTRUCTED IN THE OPERATION & MAINTENANCE OF THE SYSTEM.

- DESIGN NOTES:**
- BUILDING DESIGNED FOR NFPA 13 OCCUPANCY.
  - SPRINKLERS ARE IN CENTER AND QUARTER CENTER OF CEILING TILES
  - ALL DRY PIPE TO BE PITCHED TO DRAIN, BRANCH LINES 1/2" PER 10 FT. AND MAINS 1/4" PER 10 FT.
  - ALL HANGERS TO BE TOP BEAM CLAMPS IN STEEL JOIST AREAS AND HANGERMATES FOR WOOD JOIST.
  - ALL PIPE 1" THRU 2" TO BE "DYNA-THREAD" STEEL PIPE
  - ALL PIPE 2 1/2" AND LARGER TO BE DYNA FLOW PIPE
  - ALL FITTINGS 1" - 2" TO BE "THREADED"
  - ALL FITTINGS 2 1/2" AND LARGER TO BE WELD-O-LETS & GR. FITTINGS

- SPRINKLER NOTES:**
- MAX. SPRINKLER SPACING FOR CENTRAL MOD. "GB-OR" UPRIGHT SPRINKLERS IN THE ATTIC AREA IS 15'-0", 130sq.ft.
  - MAX. SPRINKLER SPACING FOR CENTRAL MOD. "GB-OR" UPRIGHT & PENDENT SPRINKLERS IS 15'-0", 225sq.ft. IN ALL LIGHT HAZARD AREAS.

SYMBOL	DESCRIPTION	SYMBOL	DESCRIPTION	SYMBOL	DESCRIPTION	SYMBOL	DESCRIPTION	SYMBOL	DESCRIPTION	SYMBOL	DESCRIPTION	SYMBOL	DESCRIPTION	SYMBOL	DESCRIPTION	SYMBOL	DESCRIPTION	SYMBOL	DESCRIPTION		
[Symbol]	UPRIGHT SPRINKLERS ON SPONGE	[Symbol]	UPRIGHT SPRINKLERS ON LINE	[Symbol]	PENDENT SPRINKLERS ON BRANCH	[Symbol]	SIDEWALL SPRINKLERS	[Symbol]	DRY PIPE VALVE	[Symbol]	BACKFLOW PREVENTOR	[Symbol]	DRY PIPE TEST CONNECTION								

**MECHANICAL**  
 [Symbol] RECT. EXHAUST FAN  
 [Symbol] ROUND EXHAUST FAN  
 [Symbol] RECT. EXHAUST FAN  
 [Symbol] ROUND EXHAUST FAN  
 [Symbol] RECT. EXHAUST FAN  
 [Symbol] ROUND EXHAUST FAN

**MISCELLANEOUS**  
 [Symbol] ROSE  
 [Symbol] DROP  
 [Symbol] REPAIR  
 [Symbol] HANGERS  
 [Symbol] SLOPING

**REVISIONS**

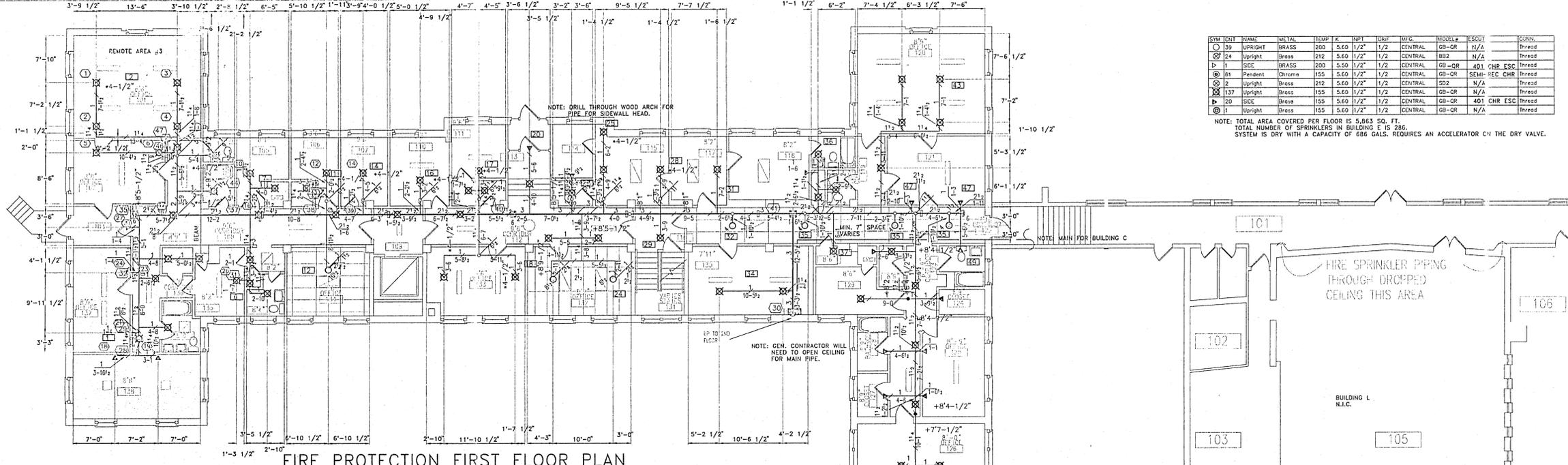
Rev #	Date	By	Description and Location
1			
2			
3			
4			
5			

**APPROVED BY:**  
 [Signature]  
 [Title]

**PROJECT:** LIFE STEPS CALPUS-BLG C  
**ADDRESS:** 1614 EAST 14TH AVENUE  
**CITY:** DENVER, CO 80202

**DATE:** 10/2/97  
**SCALE:** 1/8" = 1'-0"

**DURTELL FIRE PROTECTION INC.**  
 249 W. 14TH AVENUE, SUITE 100  
 DENVER, CO 80202  
 PHONE: (303) 733-8888  
 FAX: (303) 733-8888



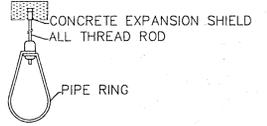
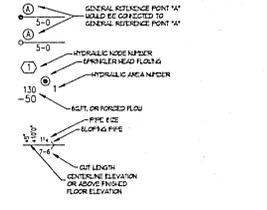
FIRE PROTECTION FIRST FLOOR PLAN

SCALE 1/8" = 1'-0"

SYM	QTY	NAME	METAL	TEMP	K	TRIP	DRIP	W/G.	MODEL #	ESCU	COUPL.
○	39	UPRIGHT	BRASS	200	5.60	1/2"	1/2	CENTRAL	GB-GR	N/A	Thread
○	24	UPRIGHT	BRASS	212	5.60	1/2"	1/2	CENTRAL	BB2	N/A	Thread
○	1	SIDE	BRASS	200	5.50	1/2"	1/2	CENTRAL	GB-GR	401 CHR ESC	Thread
○	61	Pendent	Chrome	155	5.60	1/2"	1/2	CENTRAL	GB-GR	SEMI-REC CHR	Thread
○	2	UPRIGHT	BRASS	212	5.60	1/2"	1/2	CENTRAL	SD2	N/A	Thread
○	137	UPRIGHT	BRASS	155	5.60	1/2"	1/2	CENTRAL	GB-GR	N/A	Thread
○	20	SIDE	BRASS	155	5.60	1/2"	1/2	CENTRAL	GB-GR	401 CHR ESC	Thread
○	1	UPRIGHT	BRASS	155	5.60	1/2"	1/2	CENTRAL	GB-GR	N/A	Thread

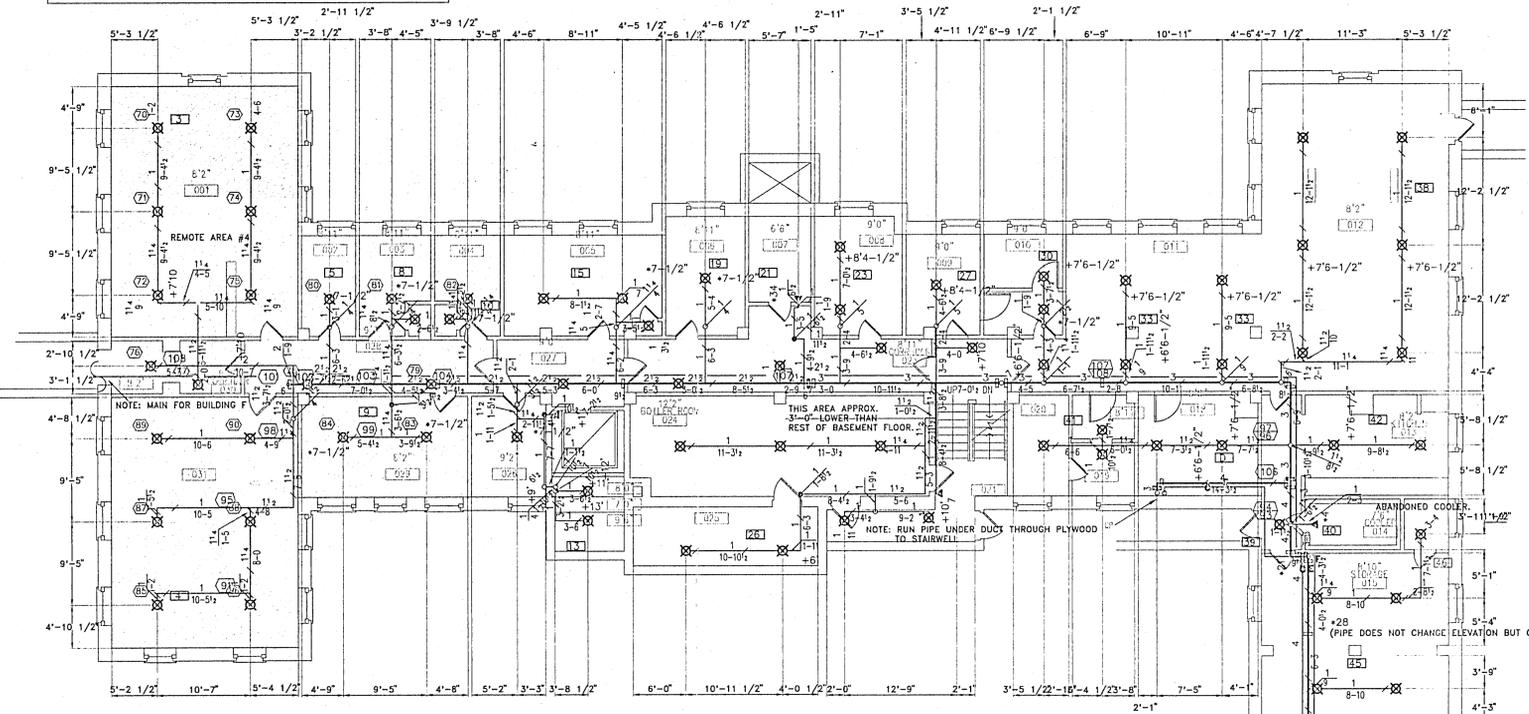
NOTE: TOTAL AREA COVERED PER FLOOR IS 5,863 SQ. FT.  
TOTAL NUMBER OF SPRINKLERS IN BUILDING E IS 266.  
SYSTEM IS DRY WITH A CAPACITY OF 686 GALS. REQUIRES AN ACCELERATOR ON THE DRY VALVE.

PLAN KEY



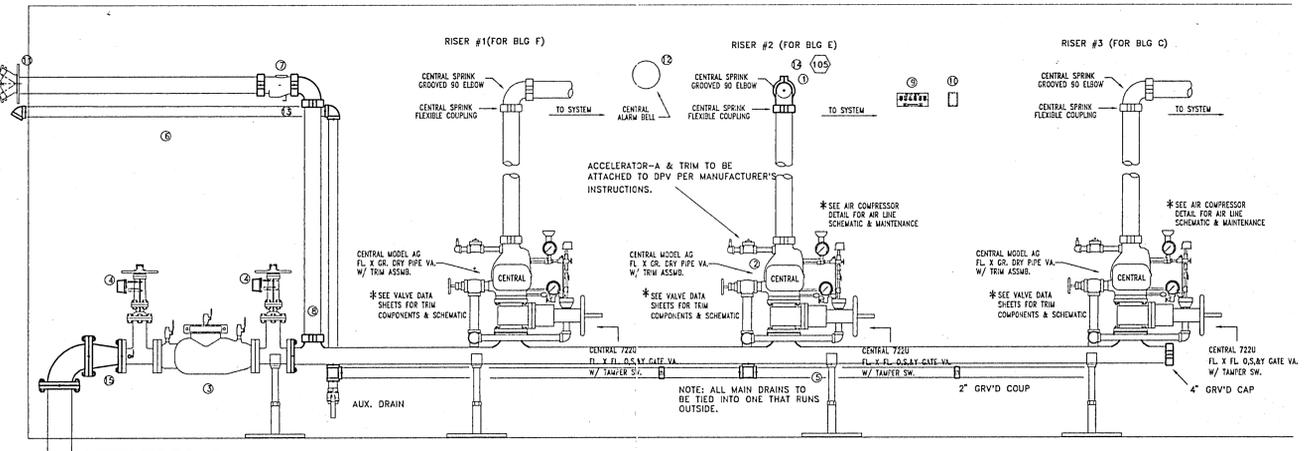
Hydraulic Remote Area # 3  
Occupancy: Light  
Density: .10 gpm/sq.ft. @ 1964 sq.ft.  
Number of Sprinklers Calc'd: 21  
Hose Allowance: 100  
Required @ Base of Riser: 81.7 psi @ 489 gpm  
Available @ Supply: 95.4 psi @ 539 gpm

Hydraulic Remote Area # 4  
Occupancy: Light  
Density: .10 gpm/sq.ft. @ 1984 sq.ft.  
Number of Sprinklers Calc'd: 21  
Hose Allowance: 100  
Required @ Base of Riser: 79.6 psi @ 474 gpm  
Available @ Supply: 95.5 psi @ 524 gpm

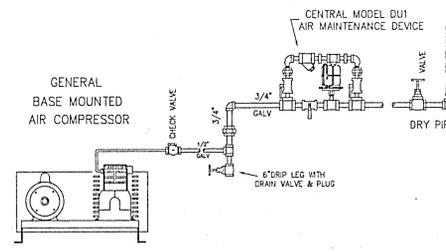


FIRE PROTECTION BASEMENT FLOOR PLAN

SCALE 1/8" = 1'-0"



RISER DETAIL



BASE MOUNTED AIR COMPRESSOR

- ① 4" TO SYSTEM
- ② 4" DRY PIPE VALVE & TRIM
- ③ 4" ANKS 3000psi BACK FLOW PREVENTOR
- ④ 054Y TAUMPER SWITCHES-MODEL 05YSH-7
- ⑤ PIPE STAND
- ⑥ 2" MAIN DRAIN
- ⑦ 4" CHECK VALVE
- ⑧ 4" TO FDC
- ⑨ SPARE HEAD BOX
- ⑩ WRITTEN INSTRUCTIONS
- ⑪ 4" 2-1/2" x 2-1/2" FIRE DEPT. CONN
- ⑫ 6" ELECTRIC BELL
- ⑬ 1/2" BALL DRIP
- ⑭ HYDRAULIC REFERENCE POINT
- ⑮ 6" x 4" RED FLANGE
- ⑯ ACCELERATOR

SPRINKLERS		DEVICES		MECHANICAL		MISCEL PIPE	
SPRINK	SPRINK	UPR	UPR	UPR	UPR	UPR	UPR
UPR	UPR	UPR	UPR	UPR	UPR	UPR	UPR
UPR	UPR	UPR	UPR	UPR	UPR	UPR	UPR
UPR	UPR	UPR	UPR	UPR	UPR	UPR	UPR

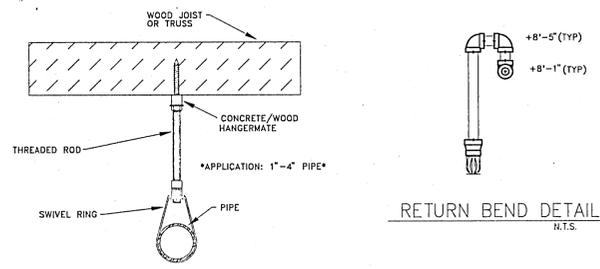
Rev. #	Date	By	Description and Location	Approval By	Phone	City	Address
1							
2							
3							
4							

REVIEWED BY: DATE: 2-25-97  
PROJECT: LIFE STEPS CAMPUS  
DATE: 9/15/97

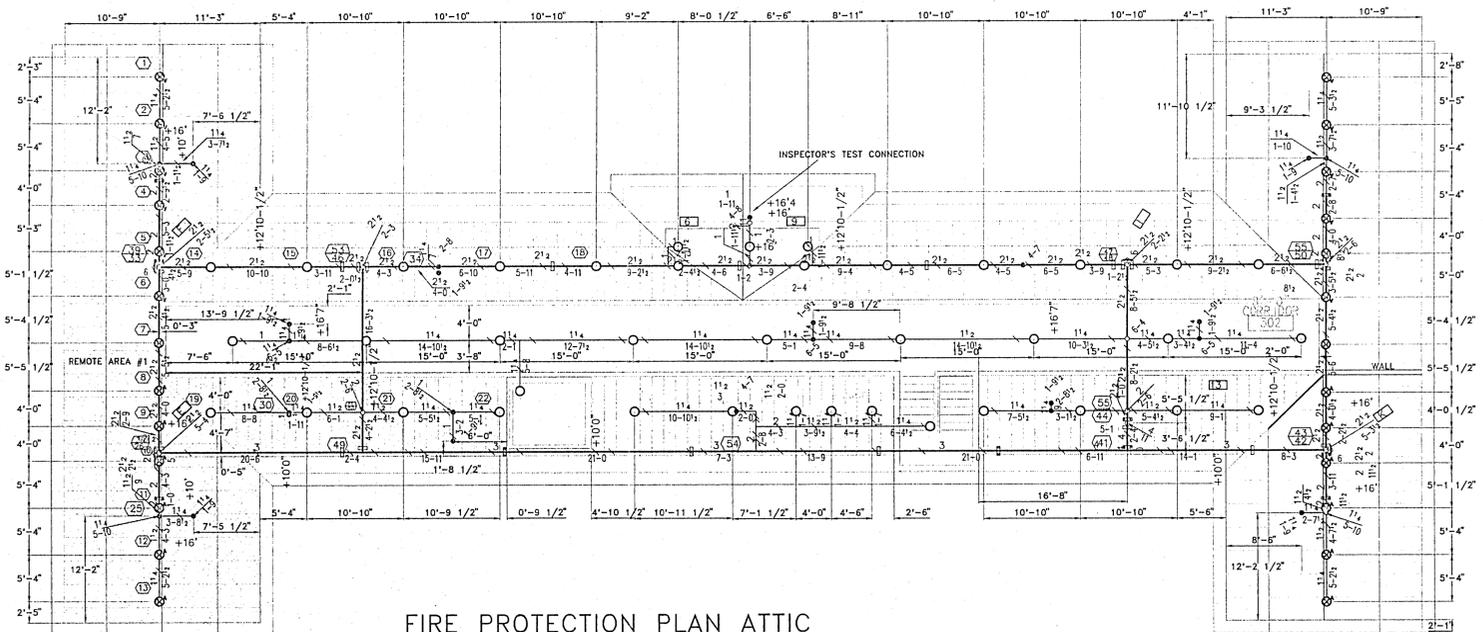
**BURTLE FIRE PROTECTION INC.**  
1614 EAST 13TH STREET  
CASPER, WY 82401  
Tel: (307) 234-6556  
Fax: (307) 234-6556

SYM	QTY	NAME	METAL	TEMP. K	INPT	DISP	W.P.D.	MODEL#	ESOUT	CONN.
13	UPRIGHT	BRASS	200	5.60	1/2"	1/2"	CENTRAL	GB-GR	N/A	Thread
24	UPRIGHT	BRASS	212	5.60	1/2"	1/2"	CENTRAL	BB2	N/A	Thread
15	SIDE	BRASS	200	5.50	1/2"	1/2"	CENTRAL	GB-GR	401 CHR ESC	Thread
61	Pendent	Chrome	155	5.60	1/2"	1/2"	CENTRAL	GB-GR	SEM-REC CHR	Thread
2	Upright	Brass	212	5.60	1/2"	1/2"	CENTRAL	SD2	N/A	Thread
137	Upright	Brass	155	5.60	1/2"	1/2"	CENTRAL	GB-GR	N/A	Thread
20	SIDE	Brass	155	5.60	1/2"	1/2"	CENTRAL	GB-GR	401 CHR ESC	Thread
9	Upright	Brass	155	5.60	1/2"	1/2"	CENTRAL	GB-GR	N/A	Thread

NOTE: TOTAL AREA COVERED PER FLOOR IS 5,863 SQ. FT.  
TOTAL NUMBER OF SPRINKLERS IN BUILDING IS 286.  
SYSTEM IS DRY WITH A CAPACITY OF 686 GALS. REQUIRES AN ACCELERATOR ON THE DRY VALVE.



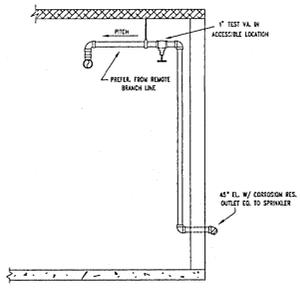
HANGER DETAIL-WOOD JOIST  
N.T.S.



FIRE PROTECTION PLAN ATTIC  
SCALE 1/8"=1'-0"

NOTE: AUXILIARY DRAIN NEEDED FOR TRAPPED PIPING. CAPACITY OF PIPING IS LESS THAN 5 GAL. USE A 1/2" VALVE AND A PLUG. AN ACCESS PANEL LABELED AUXILIARY DRAIN IS NEEDED ALSO.

NOTE: AUXILIARY DRAIN NEEDED FOR TRAPPED PIPING. CAPACITY OF PIPING IS LESS THAN 5 GAL. USE A 1/2" VALVE AND A PLUG. AN ACCESS PANEL LABELED AUXILIARY DRAIN IS NEEDED ALSO.



DRY PIPE SYSTEM TEST CONNECTION

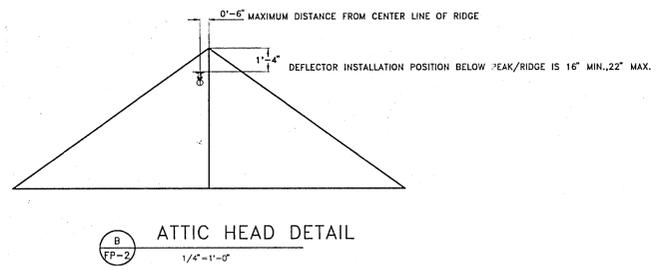
- GENERAL NOTES:**
- ALL MATERIAL AND EQUIPMENT TO BE NEW AND UL LISTED OR FM APPROVED.
  - PIPING DIMENSIONS ARE CUT LENGTHS EXCEPT RISERS SHOWN THUSLY (1-6) WHICH ARE END TO END.
  - PIPE HANGERS AND METHOD OF HANGING TO BE IN ACCORDANCE WITH NFPA PAMPHLET 13, APPLICABLE EDITION.
  - PIPING SHALL BE IN ACCORDANCE WITH NFPA PAMPHLET NO. 13, APPLICABLE EDITION.
  - JOINING OF PIPE AND FITTINGS, THREADED AND WELDED, SHALL BE IN ACCORDANCE WITH NFPA PAMPHLET NO. 13, APPLICABLE EDITION.
  - IT IS THE RESPONSIBILITY OF THE OWNER TO PROVIDE HEAT THROUGHOUT WET PIPE SPRINKLER SYSTEM AREAS AND IN ENCLOSURES FOR DRY PIPE DELUGE AND OTHER VALVES CONTROLLING WATER SUPPLIES TO SPRINKLER SYSTEMS.
  - ALL UNDERGROUND FIRE MAINS, WIRING & MONITORING OF ALARMS AND CLEANING & PAINTING OF PIPE IS BY OTHERS.
  - AT THE COMPLETION OF THE PROJECT:
    - ALL VALVES SHALL BE LABELED.
    - HYDRAULIC PLACARDS SHALL BE INSTALLED ON THE RISER.
    - A SPARE HEAD CABINET SHALL BE INSTALLED ADJACENT TO THE RISER CONTAINING A SPRINKLER WRENCH AND NOT LESS THAN 6 SPRINKLERS.
    - THE OWNER SHALL BE INSTRUCTED IN THE OPERATION & MAINTENANCE OF THE SYSTEM.

- DESIGN NOTES:**
- BUILDING DESIGNED FOR NFPA 13 OCCUPANCY.
  - SPRINKLERS ARE IN CENTER AND QUARTER CENTER OF CEILING TILES
  - ALL DRY PIPE TO BE PITCHED TO DRAIN. BRANCH LINES 1/2" PER 10 FT. AND MAINS 1/4" PER 10 FT.
  - ALL HANGERS TO BE DROP-IN ANCHORS IN CONCRETE AREAS AND HANGERMATES FOR WOOD JOIST.
  - ALL PIPE 1" THRU 2" TO BE "DYNA-THREAD" STEEL PIPE
  - ALL PIPE 2 1/2" AND LARGER TO BE DYNA FLOW PIPE
  - ALL FITTINGS 1" - 2" TO BE "THREADED"
  - ALL FITTINGS 2 1/2" AND LARGER TO BE WELD-O-LETS & GR. FITTINGS

- SPRINKLER NOTES:**
- MAX. SPRINKLER SPACING FOR CENTRAL MOD. "GB-GR" UPRIGHT SPRINKLERS IN THE ATTIC AREA IS 15'-0", 130sq.ft.
  - MAX. SPRINKLER SPACING FOR CENTRAL MOD. "BB2" AND "SD2" ATTIC SPRINKLERS IS 6'-0" BETWEEN SPRINKLERS COVERING A MAX. ROOF SPAN OF 40'(400' SQ. FT. MAX). MINIMUM DISTANCE BETWEEN SPRINKLERS IS 4" AS MEASURED ALONG BRANCH LINE. MINIMUM DISTANCE AWAY FROM TRUSSES IS 6".
  - MAX. SPRINKLER SPACING FOR CENTRAL MOD. "GB-GR" UPRIGHT & PENDENT SPRINKLERS IS 15'-0", 225sq.ft. IN ALL LIGHT HAZARD AREAS.

Hydraulic Remote Area #1  
Occupancy: Light  
Density: 10 gpm/sq.ft. @ 1967 sq.ft.  
Number of Sprinklers Calc'd: 22  
Hose Allowance: 100  
Required @ Base of Riser: 82.8 psi @ 639 gpm  
Available @ Supply: 93.8 psi @ 689 gpm

Hydraulic Remote Area #2  
Occupancy: Light  
Density: 10 gpm/sq.ft. @ 1950 sq.ft.  
Number of Sprinklers Calc'd: 17  
Hose Allowance: 100  
Required @ Base of Riser: 81.4 psi @ 468 gpm  
Available @ Supply: 95.5 psi @ 518 gpm



ATTIC HEAD DETAIL  
1/4"=1'-0"

NOTE: AUXILIARY DRAIN NEEDED FOR TRAPPED PIPING. CAPACITY OF PIPING IS LESS THAN 5 GAL. USE A 1/2" VALVE AND A PLUG. AN ACCESS PANEL LABELED AUXILIARY DRAIN IS NEEDED ALSO.

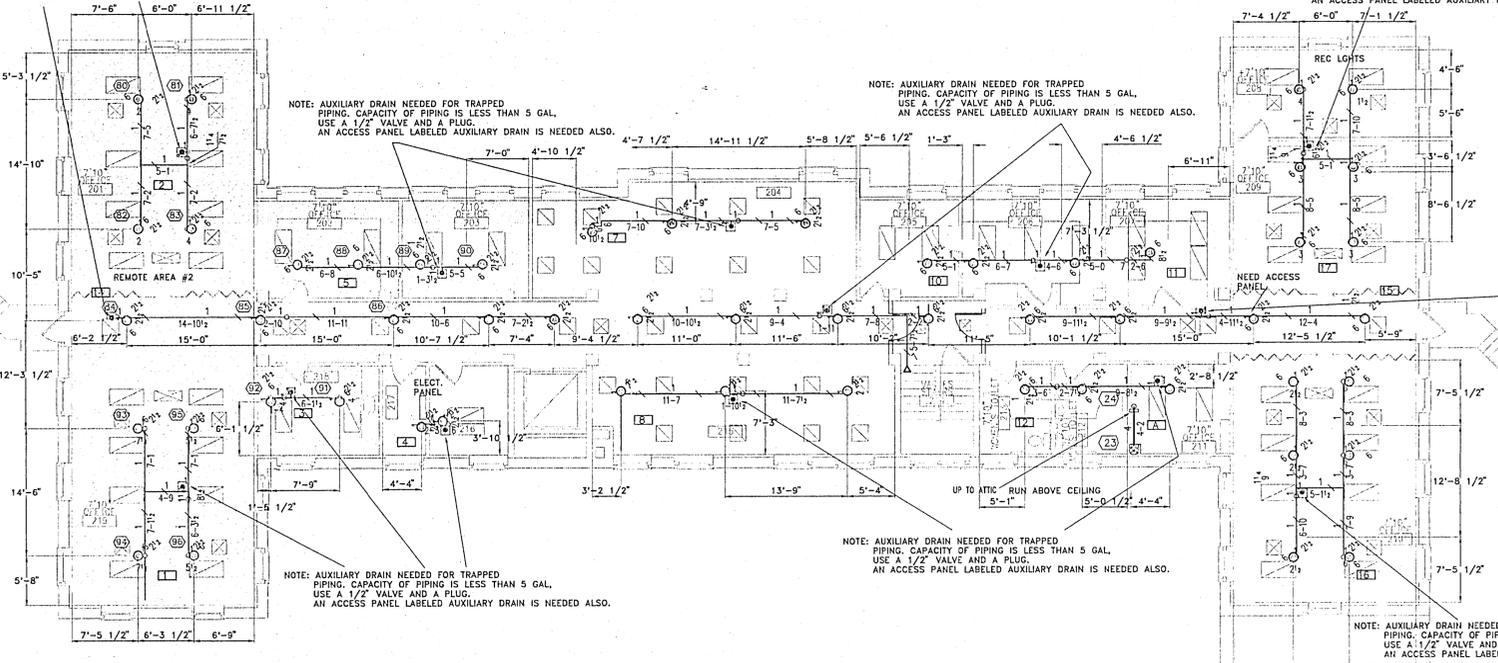
NOTE: AUXILIARY DRAIN NEEDED FOR TRAPPED PIPING. CAPACITY OF PIPING IS LESS THAN 5 GAL. USE A 1/2" VALVE AND A PLUG. AN ACCESS PANEL LABELED AUXILIARY DRAIN IS NEEDED ALSO.

NOTE: AUXILIARY DRAIN NEEDED FOR TRAPPED PIPING. CAPACITY OF PIPING IS LESS THAN 5 GAL. USE A 1/2" VALVE AND A PLUG. AN ACCESS PANEL LABELED AUXILIARY DRAIN IS NEEDED ALSO.

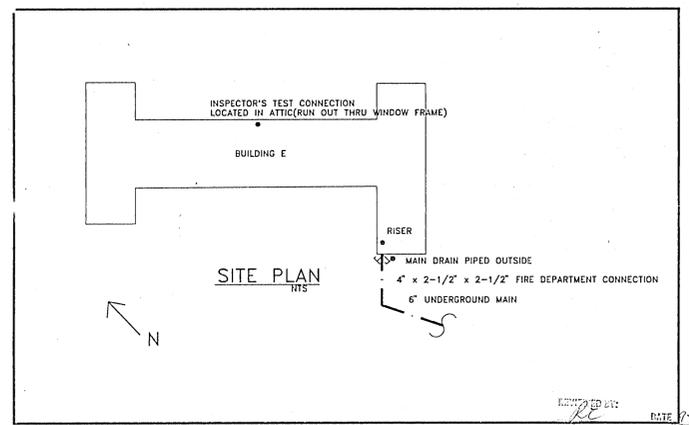
NOTE: AUXILIARY DRAIN NEEDED FOR TRAPPED PIPING. CAPACITY OF PIPING IS LESS THAN 5 GAL. USE A 1/2" VALVE AND A PLUG. AN ACCESS PANEL LABELED AUXILIARY DRAIN IS NEEDED ALSO.

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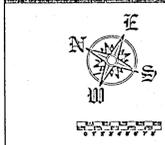
NOTE: AUXILIARY DRAIN NEEDED FOR TRAPPED PIPING. CAPACITY OF PIPING IS LESS THAN 5 GAL. USE A 1/2" VALVE AND A PLUG. AN ACCESS PANEL LABELED AUXILIARY DRAIN IS NEEDED ALSO.



FIRE PROTECTION PLAN SECOND FLOOR  
SCALE 1/8"=1'-0"



SITE PLAN  
N.T.S.



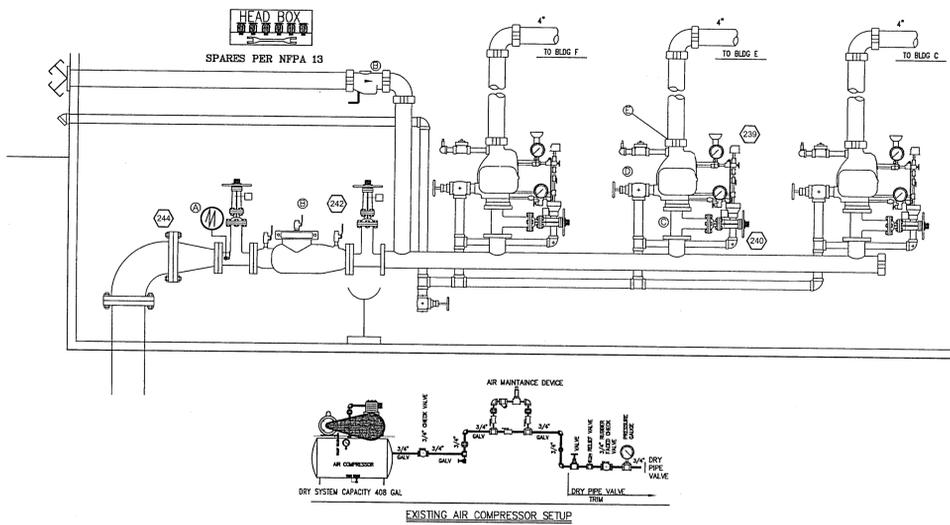
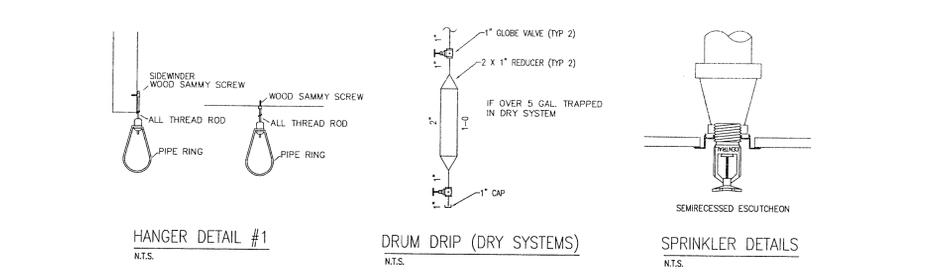
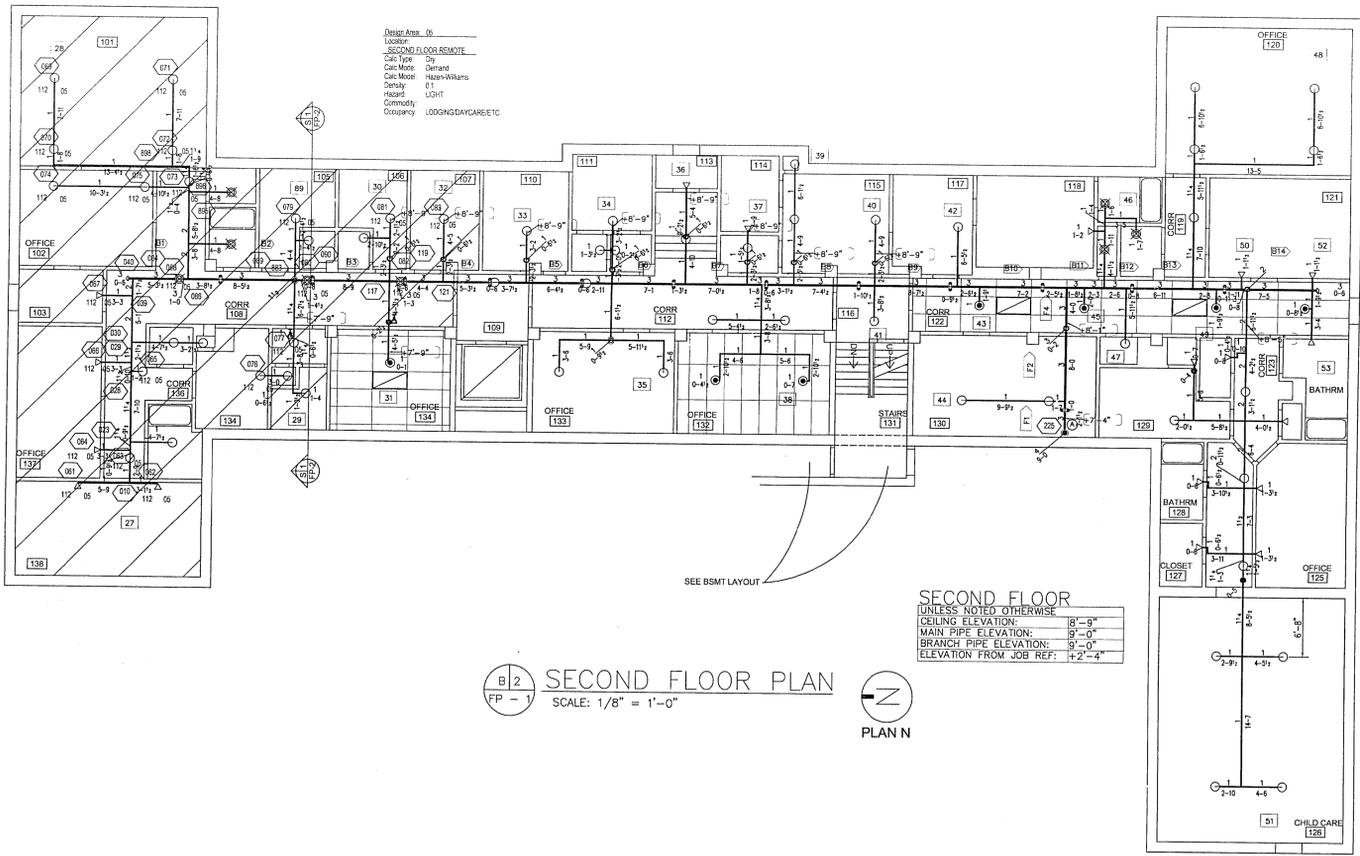
SPRINKLERS				DEVICES				MECHANICAL				MISCEL PIPE			
SPRINKLER SYMBOLS	UPRIGHT SPRINKLERS ON SPRIG	UPRIGHT SPRINKLERS ON LINE	PENDENT SPRINKLERS ON LINE	DRY VALVE	WATER CONTROL VALVE										
UP & DOWN SPRINKLERS	UP & DOWN SPRINKLERS	UP & DOWN SPRINKLERS	UP & DOWN SPRINKLERS	UP & DOWN SPRINKLERS	UP & DOWN SPRINKLERS	UP & DOWN SPRINKLERS	UP & DOWN SPRINKLERS	UP & DOWN SPRINKLERS	UP & DOWN SPRINKLERS	UP & DOWN SPRINKLERS	UP & DOWN SPRINKLERS	UP & DOWN SPRINKLERS	UP & DOWN SPRINKLERS		

Rev. #	Date	By	Description and Location
1			
2			
3			
4			
5			

Approved By	Phone	Address
Fire Dept. CAPTAIN PETER ERBE	(809) 225-0122	Address: 7025 OGDON ROAD CENTER CITY, CA, MD 21044
Water Dept. PATRICK WELLS	(301) 248-5133	Address: 200 SOUTH BRIDGE STREET, BALTIMORE, MD 21202

Project Name:	Address:	City, State, ZIP:
LIFE STEPS CAMPUS	1614 EAST 12TH STREET	CASPIRTNY 02001

Architect:	Address:	City, State, ZIP:
BURTILL FIRE PROTECTION INC.	248 Moore Lane, Killings, NJ 08091	

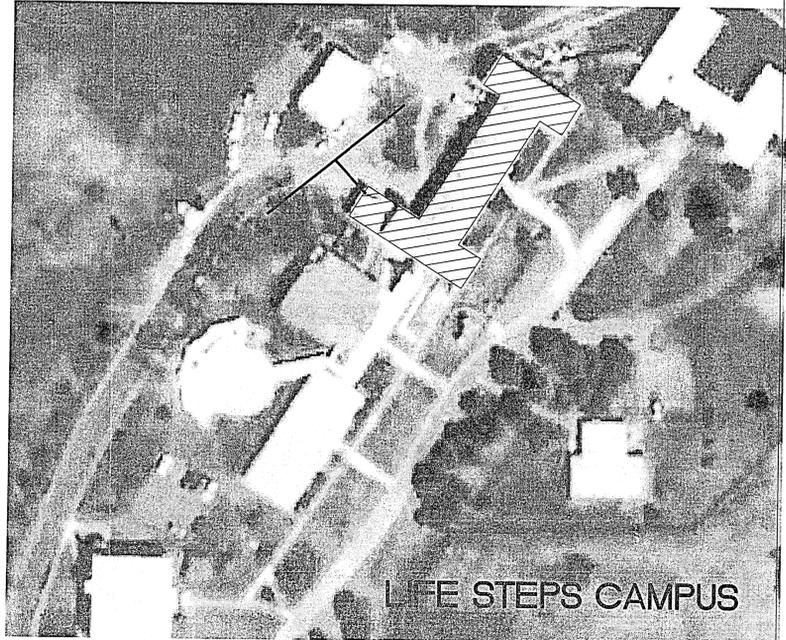
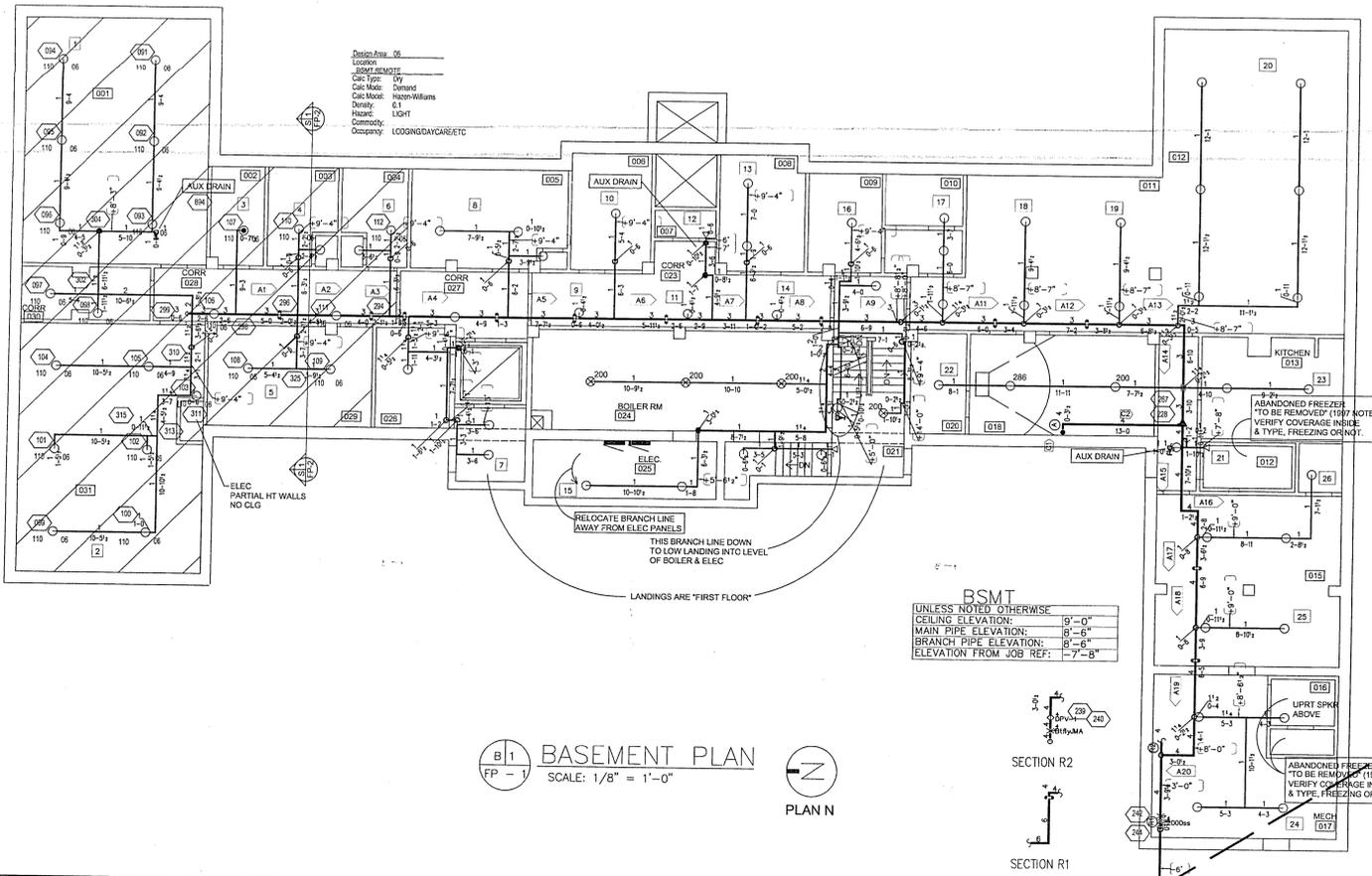


- EXISTING RISER ASSEMBLY**
- ⓐ AMES 2000ss DOUBLE BACK FLOW CHECK VALVE ASSEMBLY
  - ⓑ EXISTING CHECK VALVE TO FDC
  - ⓒ EXISTING OS&Y ZONE VALVE TO BLDG E
  - ⓓ EXISTING DRY VALVE WITH ACCELERATOR
  - ⓔ POINT OF CONNECTION TO EXISTING. DEMO EVERYTHING BEYOND & REPLACE AS SHOWN

**JOB: LIFE STEPS CAMPUS**

Address: 1514 12th St.	Unit System: US
City: CASPER	Standards: NFPA13
State: WY	
Job/Sheet Code: 588m	Date: 04/05/10
Contract #: 307	Designer: LEONARD HUNKE
Contractor: RAPID FIRE PROTECTION	
Address: 1805 SAMCO RD	Phone: 650-348-2342
City: RAPID CITY	Fax: 650-348-5119
State: SD	Email: leonard@rfrp.com
Job/Sheet Code: 4770c	
Issuing Authority: CASPER FIRE DEPT	
Sheet Title:	Default Drop Size: 1"
Default Sprinkler:	Default Drop Material: 40
Default Sprinkler Material:	Default Drop Elevation: 7.15'
Default Sprinkler Elevation:	Default Drop Elevation: 7.15'
Default Elevation:	Default Elevation: 40
Default Fee:	Default Elevation: 40

**VA 1 EXISTING VALVE ASSEMBLY**  
 FP - 1  
 SCALE: N.T.S.



**SP1 SITE PLAN**  
 FP - 1  
 SCALE: 1" = 50'

- NOTES**
- INSTALLATION ACCORDING TO NFPA 13
  - PIPING HUNG AND SUPPORTED PER NFPA 13
  - HANGER SYMBOLS NOT SHOWN FOR CLARITY
  - PIPING TYPE: SCHED 40, 1-2", SCHED 10, 1-1/2-4"
  - ALL SPRINKLERS ARE QUICK RESPONSE TYPE
  - HEADS IN CEILING TILE ARE NOT CENTER OF TILE
  - HEADS IN EXPOSED AREA SHALL BE BRASS UPRIGHT
  - ATTIC SPRINKERS ARE SPECIAL APPLICATION, PLUS OR DUE TO OBSTRUCTIONS
  - DESIGN LIKE EXISTING, EXCEPT TO FIX DEFICIENCIES & MINOR CHANGES
  - PROVIDE WALL PLATES FOR EXPOSED PIPING THROUGH ALL WALLS
  - USE EXISTING PENETRATIONS WHERE POSSIBLE. OWNER IS RESPONSIBLE FOR PATCHING.

**REVISIONS**

DATE	DESCRIPTION	BY

**SPRINKLER SYMBOLS**

SYM	QNT	POSITION	FRESH	TEMP	K	RPT	SG	MPG	MODEL #	ESQUT	NOTES
ⓐ	126	UPRR	BRASS	155	5.60	1/2"	TY3131	TYCO	TY-FRB	RECESSED	15x15'
ⓑ	85	PEND	CHROME	155	5.60	1/2"	TY3231	TYCO	TY-FRB	EXTENDED	14x14'
ⓒ	22	SIDE	CHROME	155	5.60	1/2"	TY3131	TYCO	TY-FRB	130 SF	
ⓓ	24	UPRR	BRASS	200	5.60	1/2"	TY3131	TYCO	TY-FRB	130 SF	
ⓔ	11	UPRR	BRASS	200	5.60	1/2"	TY3131	TYCO	TY-FRB	130 SF	
ⓕ	23	UPRR	BRASS	212	5.60	1/2"	TY3181	TYCO	BB2	6'x10'	
ⓖ	45	UPRR	BRASS	212	5.60	1/2"	TY3184	TYCO	SD2	6'x10'	
ⓗ	5	UPRR	BRASS	155	5.60	1/2"	TY3131	TYCO	TY-FRB	15x15'	
ⓘ	5	PEND	CHROME	155	5.60	1/2"	TY3231	TYCO	TY-FRB	15x15'	
ⓙ	8	UPRR	BRASS	155	5.60	1/2"	TY3131	TYCO	TY-FRB	RECESSED	15x15'

334 = TOTAL SPRINKLERS

**RAPID FIRE PROTECTION**  
 1805 SAMCO RD.  
 RAPID CITY, SD 57702  
 (605) 348-2342

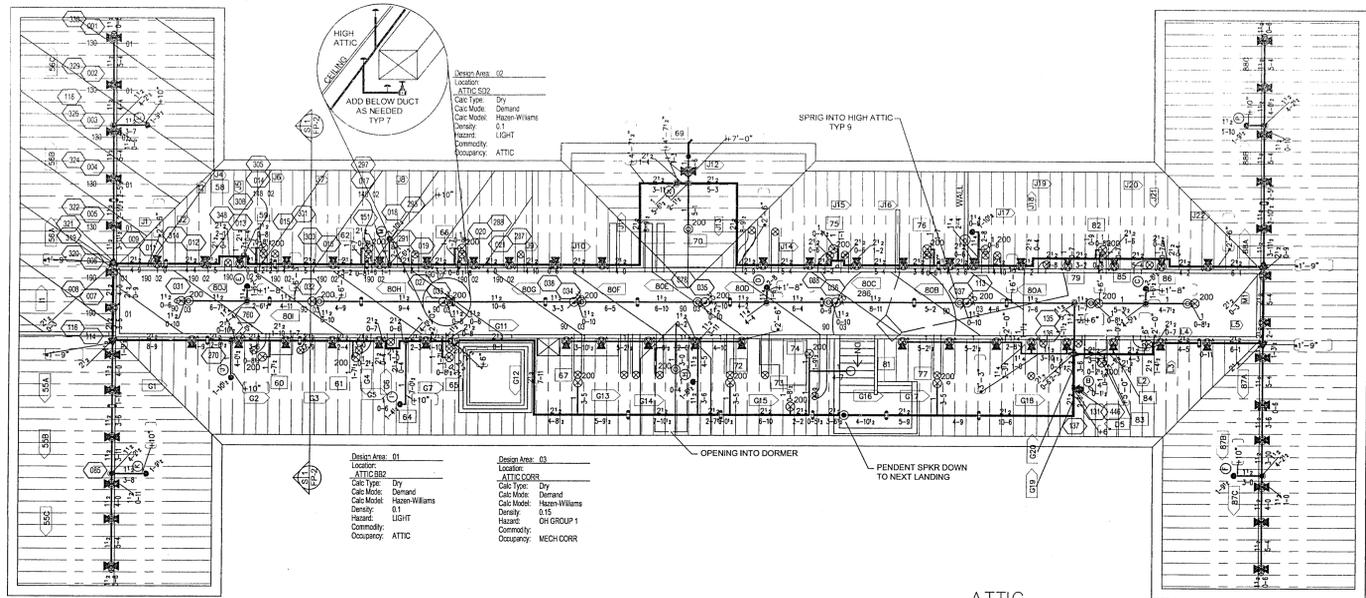
**Professional Engineer (Fire Protection)**  
 BRADY M. ZIMMER  
 11999  
 WYOMING

**LIFE STEPS CAMPUS BUILDING E**  
 1514 E 12TH ST.  
 CASPER, WY 82601  
 CONTRACTOR: RAPID FIRE PROTECTION, INC.

**BSMT/IST/2ND**

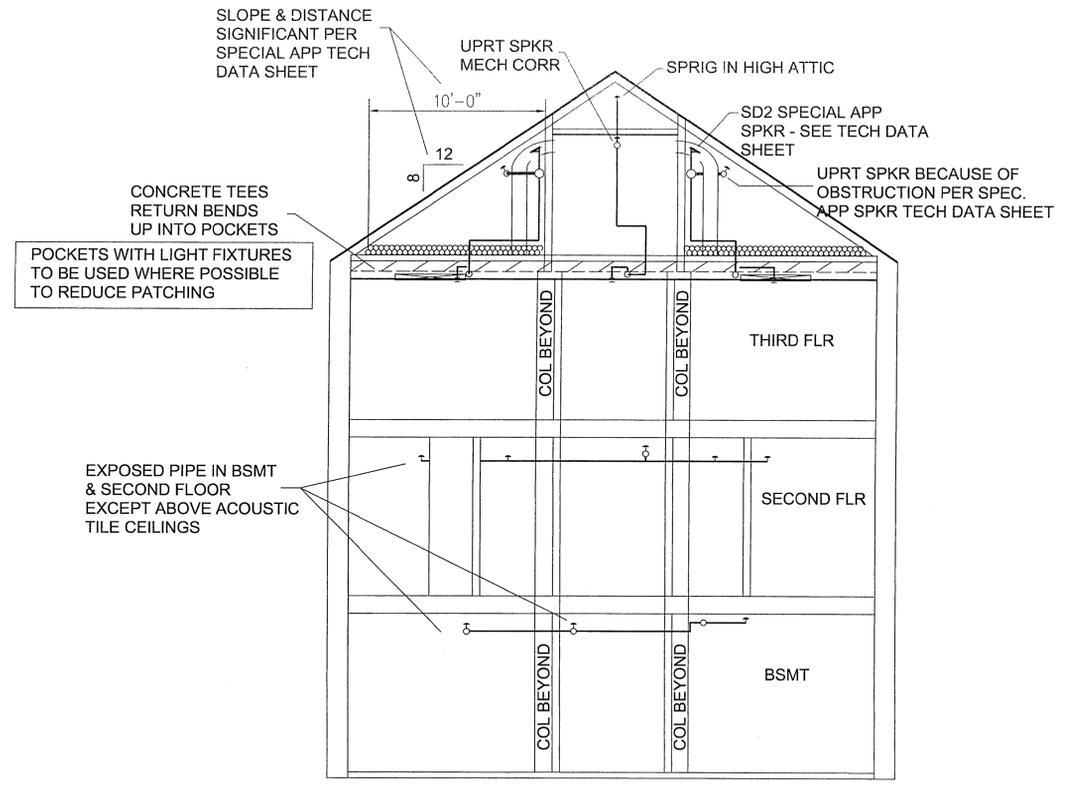
PERMIT NO.	
CONTRACT NO.	3097
APPROVAL	CASPER FIRE DEPT.
DRAWN BY	LEONARD HUNKE
CHECKED BY	
SCALE	1/8" = 1'-0"
DATE	01/05/10
REVISED (DATE)	
PLOTTED (DATE)	

**FP 1 of 2**

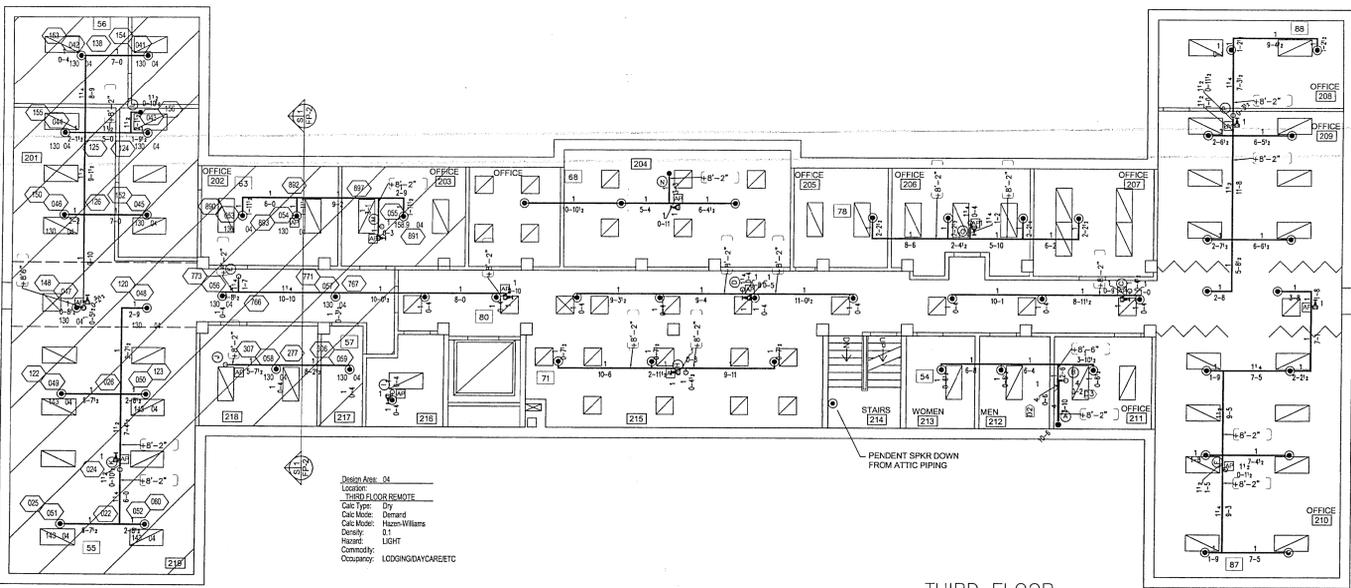


**B 4 ATTIC PLAN**  
 FP - 2 SCALE: 1/8" = 1'-0"  
 PLAN N

**ATTIC**  
 UNLESS NOTED OTHERWISE  
 CEILING ELEVATION: +7'-4"  
 MAIN PIPE ELEVATION: +6"  
 BRANCH PIPE ELEVATION: +6"  
 ELEVATION FROM JOB REF: +21'-8"

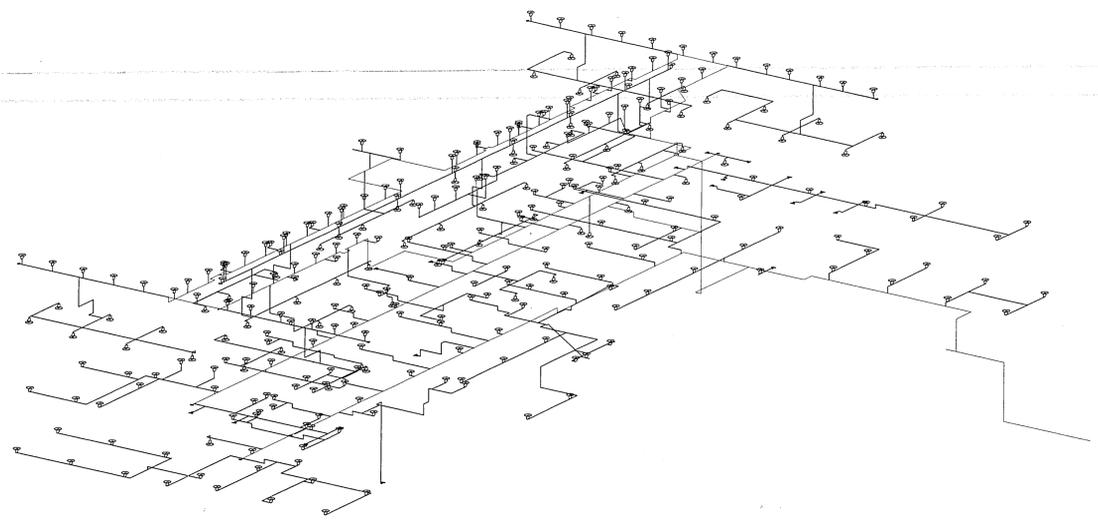


**S 1 SECTION**  
 FP - 2 SCALE: 1/4" = 1'-0"

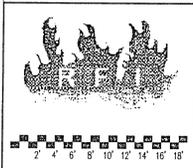


**B 3 THIRD FLOOR PLAN**  
 FP - 2 SCALE: 1/8" = 1'-0"  
 PLAN N

**THIRD FLOOR**  
 UNLESS NOTED OTHERWISE  
 CEILING ELEVATION: +7'-10"  
 MAIN PIPE ELEVATION: +8'-8"  
 BRANCH PIPE ELEVATION: +8'-8"  
 ELEVATION FROM JOB REF: +12'-4"



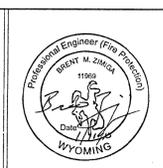
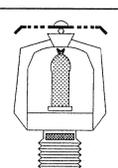
**S 2 3-D PIPE DIAGRAM**  
 FP - 2 SCALE: NTS



- NOTES**
1. INSTALLATION ACCORDING TO NFPA 13
  2. PIPING HUNG AND SUPPORTED PER NFPA 13
  3. HANGER SYMBOLS NOT SHOWN FOR CLARITY
  4. PIPING TYPE: SCHED 40, 1/2" SCHED 10, 1-1/2" 4"
  5. ALL SPRINKLERS ARE QUICK RESPONSE TYPE
  6. HEADS IN CEILING TILE ARE NOT CENTER OF TILE
  7. HEADS IN EXPOSED AREA SHALL BE BRASS UPRIGHT
  8. ATTIC SPRINKERS ARE SPECIAL APPLICATION PLUS OR DUE TO OBSTRUCTIONS
  9. DESIGN LIKE EXISTING, EXCEPT TO FIX DEFICIENCIES & MINOR CHANGES
  10. PROVIDE WALL PLATES FOR EXPOSED PIPING THROUGH ALL WALLS
  11. USE EXISTING PENETRATIONS WHERE POSSIBLE. OWNER IS RESPONSIBLE FOR PATCHING

DATE	REVISIONS	DESCRIPTION	BY

SYM	QTY	POSITION	FINISH	TI	SP	K	NOPT	ISA	MPC	MODEL #	ESQD	NOTES
126	UPRR	BRASS	155	5.60	1/2"	TY3231	TYCO	TY-FRB	RECESSED	15'x15'		
65	PEND	CHROME	155	5.60	1/2"	TY3231	TYCO	TY-FRB	RECESSED	15'x15'		
22	SIDE	CHROME	155	5.60	1/2"	TY3231	TYCO	TY-FRB	EXTENDED	14'x14'		
24	UPRR	BRASS	200	5.60	1/2"	TY3131	TYCO	TY-FRB		130 SF		
11	UPRR	BRASS	200	5.60	1/2"	TY3131	TYCO	TY-FRB		130 SF		
23	UPRR	BRASS	212	5.60	1/2"	TY3131	TYCO			6'x10'		
45	UPRR	BRASS	212	5.60	1/2"	TY3184	TYCO	SD2		6'x10'		
5	UPRR	BRASS	155	5.60	1/2"	TY3131	TYCO	TY-FRB		15'x15'		
11	PEND	CHROME	155	5.60	1/2"	TY3231	TYCO	TY-FRB	RECESSED	15'x15'		
8	UPRR	BRASS	155	5.60	1/2"	TY3131	TYCO	TY-FRB	RECESSED	15'x15'		



**RAPID FIRE PROTECTION**  
 1805 SAMCO RD.  
 RAPID CITY, SD 57702  
 (605) 348-2342

**LIFE STEPS CAMPUS BUILDING E**  
 1514 E 12TH St.  
 CASPER, WY 82601  
 CONTRACTOR: RAPID FIRE PROTECTION, INC.

<b>3rd FLR/ATTIC</b>	
PERMIT NO.	
CONTRACT NO.	3097
APPROVAL	CASPER FIRE DEPT
CHECKED BY	LEONARD HUNEKE
DRAWN BY	BZ
SCALE	1/8" = 1'-0"
DATE	01/08/10
REVISED	
PLOTTED	



**5-YEAR REPORT  
OF INSPECTION & TESTING OF  
WATER BASED FIRE PROTECTION SYSTEM**

**Inspection Date: December 24, 2015**

City of Casper Comm Dev Dept  
200 N David St Room 203  
Casper, WY 82601

**Location: Life Steps Campus System C**

**Attention: Joy Clark**  
Inspector: Ryan Bruno

The following **5-year** inspection, testing and maintenance tasks of water based fire protection systems have been performed as recommended by NFPA 25.

Last 5-year inspection: **First**

**Pressure Gauges**

1. Gauges calibrated?		No
2. Gauges replaced?	Dated 12/16/15	Yes

**Sprinkler Maintenance Testing**

3. Extra High temperature sprinklers tested every 5-years? Test date:	N/A
4. Fast response sprinklers tested at 20-years and then every ten-years thereafter? Test date:	
5. Residential sprinklers tested every 20-years? Test date:	N/A
6. Standard sprinklers tested at 50-years and then every ten-years thereafter? Test date:	
7. Dry sprinklers tested every 10-years? Test date:	N/A

**Internal Inspections**

8. Number of fire department connection check valves:	1
9. Fire department connection check valve(s) internally inspected, in good condition and operated properly?	Yes
10. Number of main riser check valves: 2" Check Valve	2
11. Main riser check valve(s) internally inspected, in good condition and operated properly?	2
12. Number of alarm check valves	0
13. Alarm check valve(s) internally inspected, in good condition and operated properly?	N/A
14. Dry valve(s) internally inspected, in good condition and operated properly?	N/A
15. Number of preaction valves:	0
16. Praction valves internally inspected, in good condition and operated properly?	N/A
17. Number of Deluge valves:	0
18. Deluge valves internally inspected, in good condition and operated properly?	N/A
19. Number of pressure reducing valves:	0
20. Pressure reducing valves internally inspected, in good condition and operated properly?	N/A
21. Number of pressure restricting valves:	0
22. Pressure restricting valves internally inspected, in good condition and operated properly?	N/A
23. Number of strainers: and restricting orifices:	0
24. Strainers and restricting orifices internally inspected, in good condition and operated properly?	N/A

**5-YEAR REPORT OF INSPECTION & TESTING OF  
WATER BASED FIRE PROTECTION SYSTEM**

**Standpipe systems**

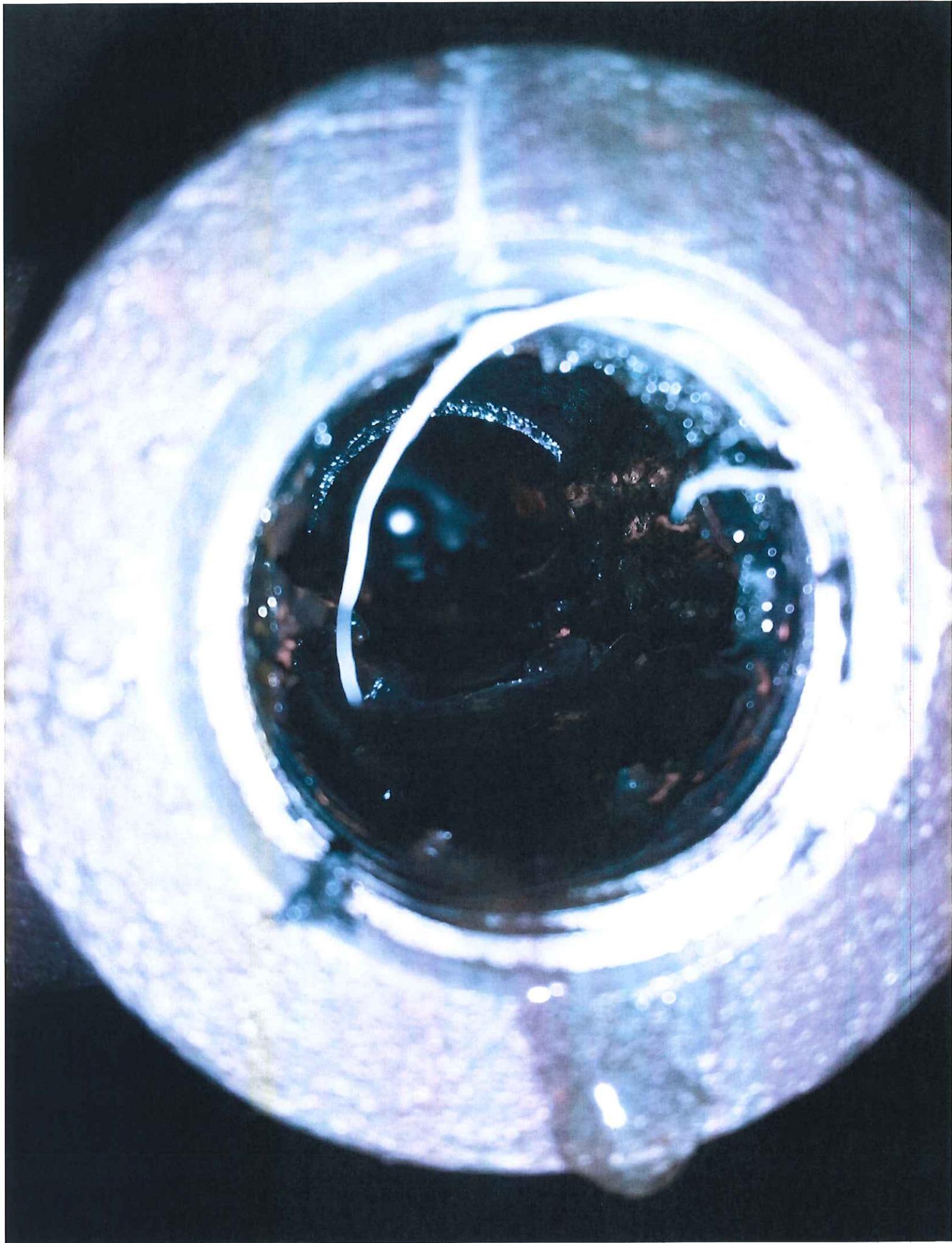
25. Number: 0 and type of standpipe systems:	n/a
26. Standpipe flow tested every 5-years?	n/a
27. Dry stand pipe hydrostatically tested ever 5-years?	n/a

**Internal Condition of Sprinkler Piping**

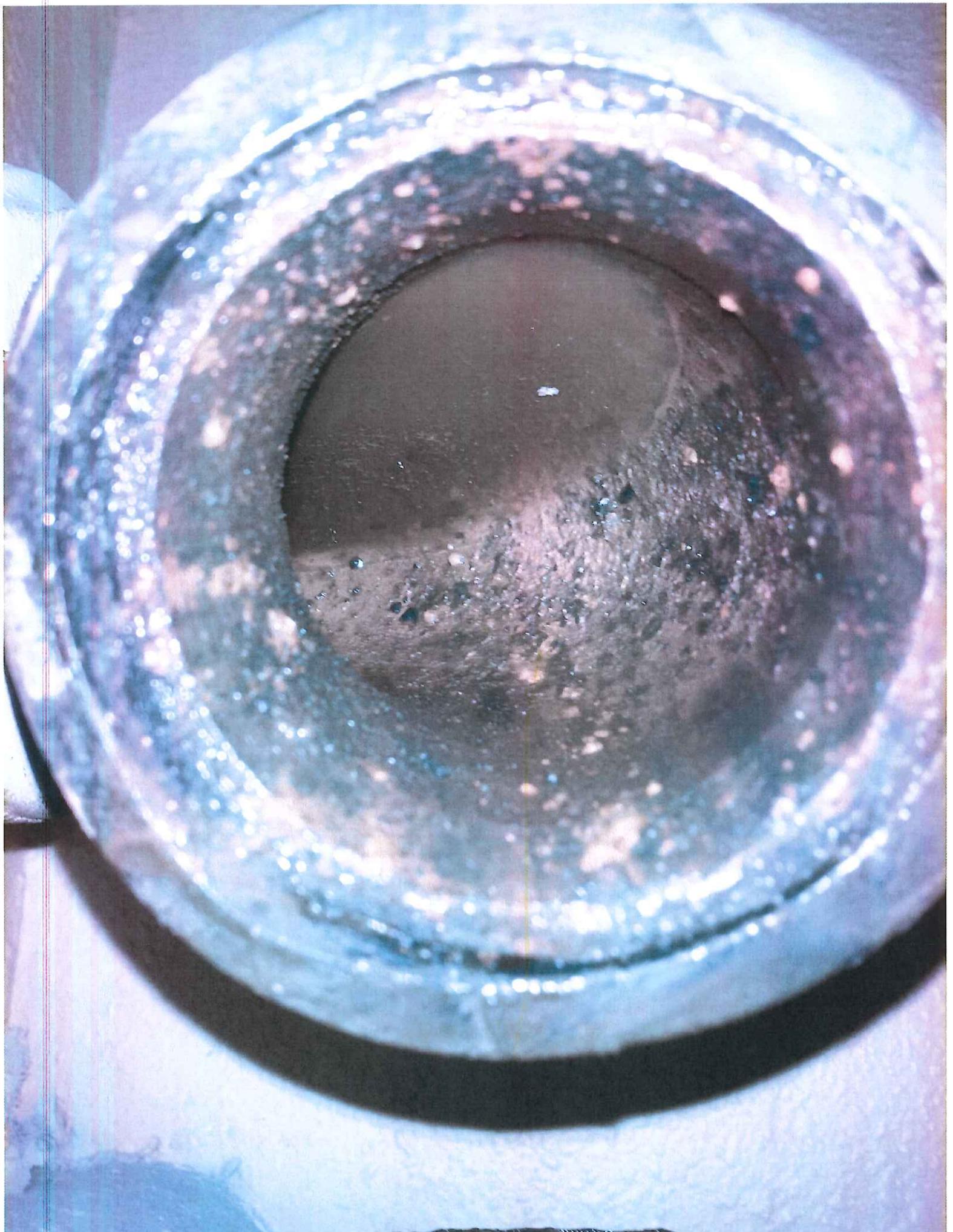
28. Number of branch lines examined: Attic in C and Long Hall	5
29. Number of cross mains examined: Attic in C and Lower Basement	1
30. Riser examined? Basement/Attic C	Yes
31. System valve examined? Located in Basement	Yes
32. Other points examined: Various spots in main, Attic C and Long Hall	Yes
33. Does the interior of sprinkler piping appear to be in satisfactory condition?	No
32. Summary of internal inspection: The lower main is in fair condition. The Attic in C is in bad condition	
33. Explanation of "No" answers. <b>The interior of the pipe in the attic is extremely thin and has an abundance of buildup in the pipe. Some of the arms over in the long hall have buildup in the pipe and sprinkler heads.</b>	
34. Adjustments or corrections made? <b>Replaced gauges and a 2 ½" Coupling</b>	
35. Desirable improvements. <b>New pipe in the attic. New arm over in long hall. Possibly the lower basement pipe also. Dry valve is hard to set, check in the air line may need replaced.</b>	

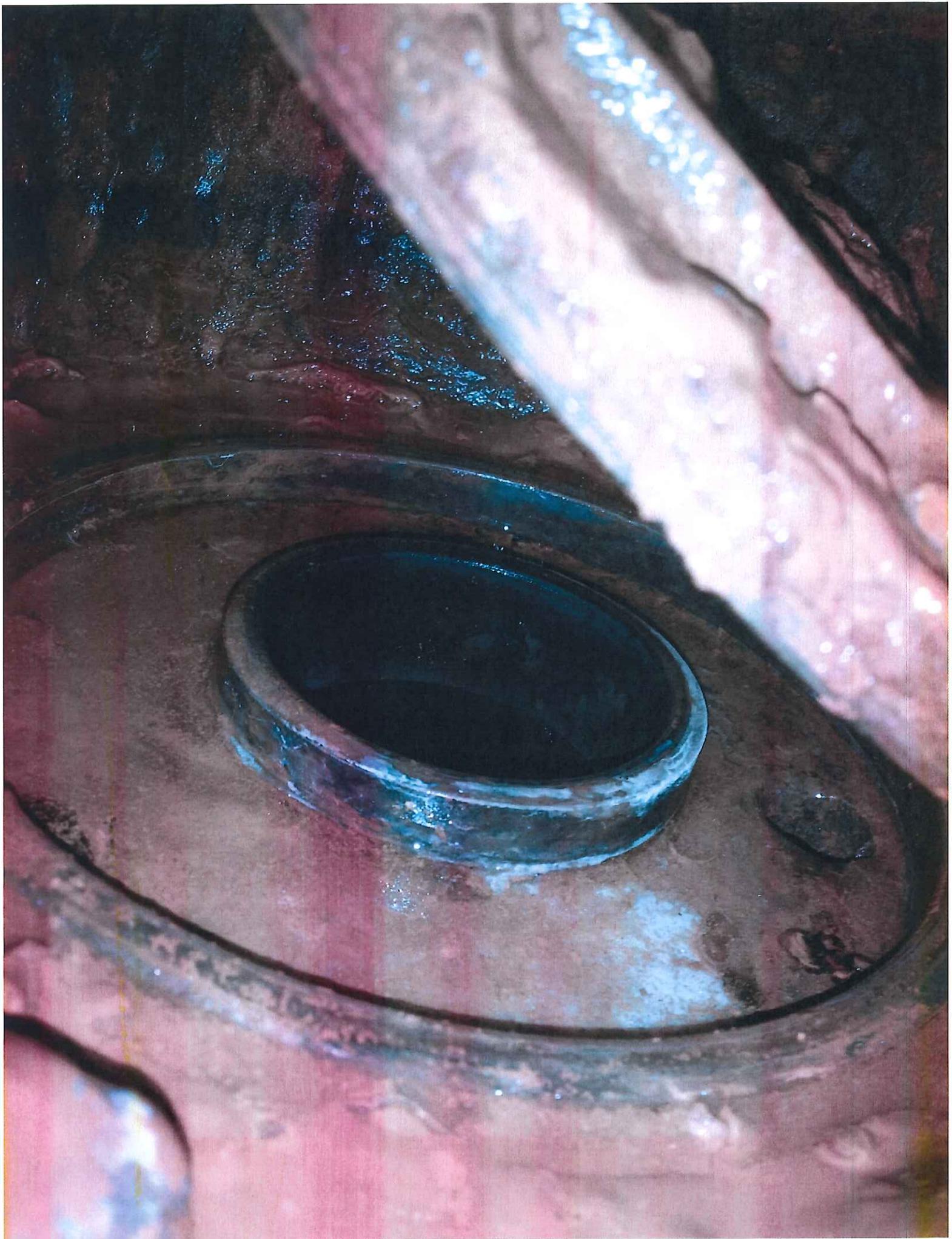
System C  
Customer Copy

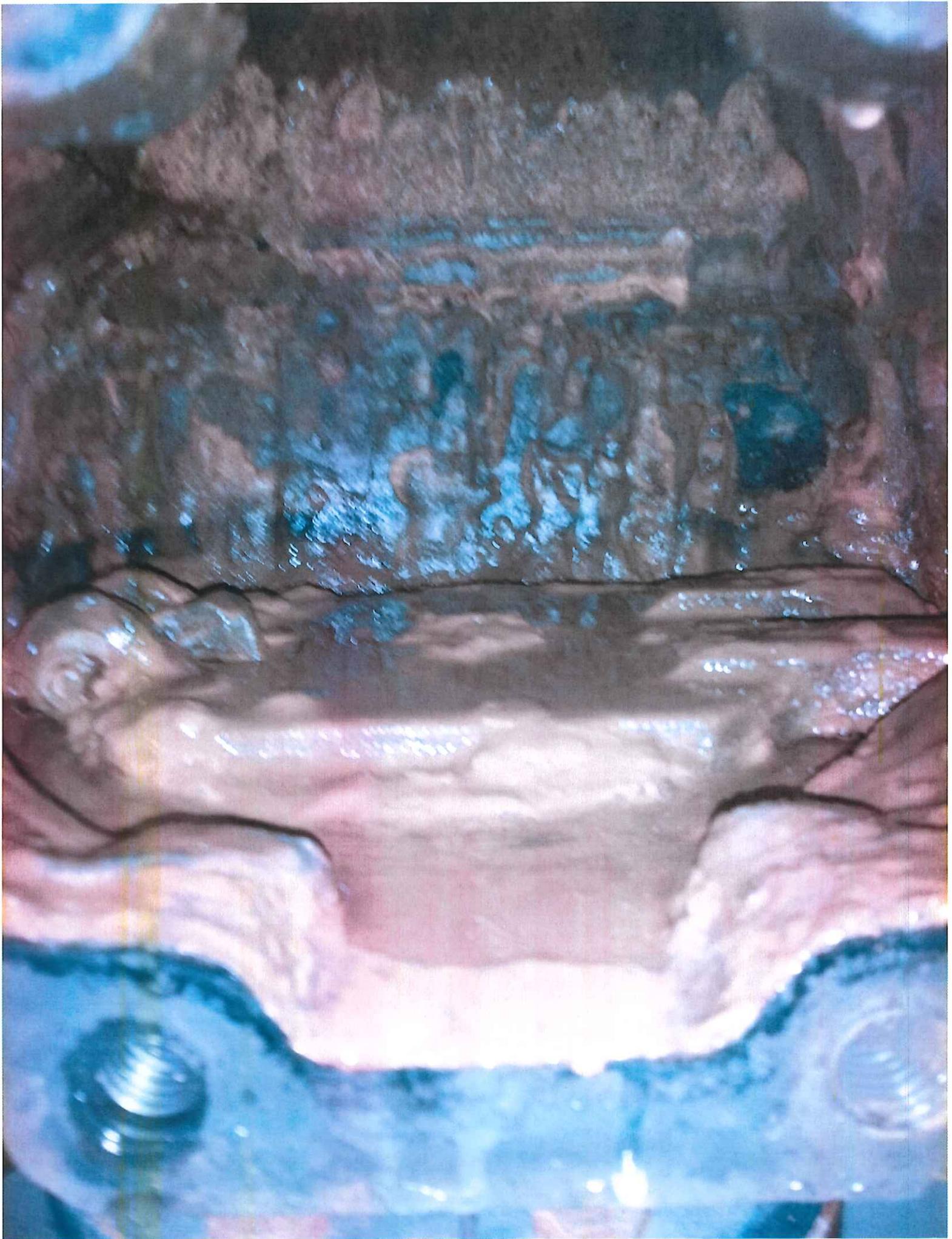


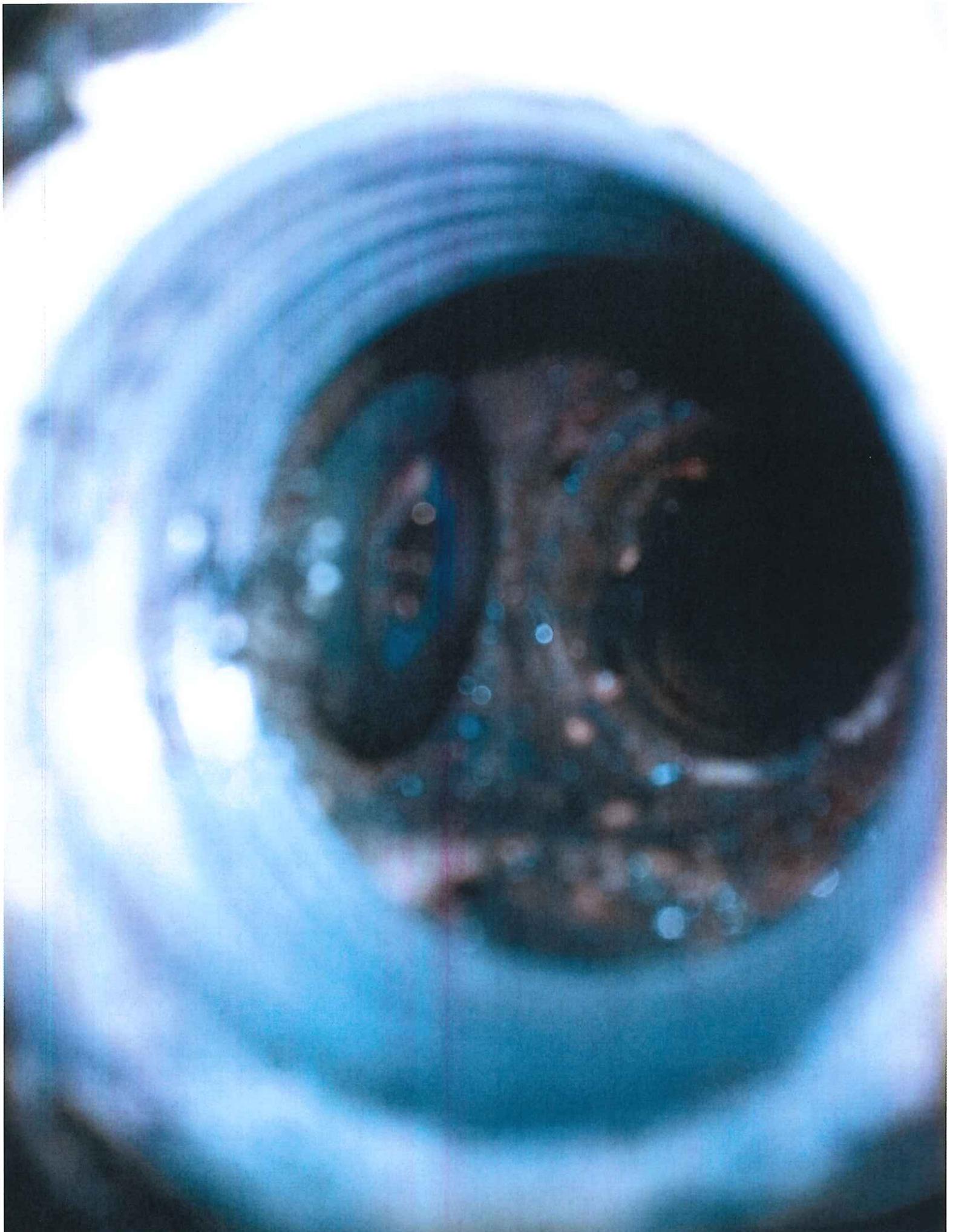


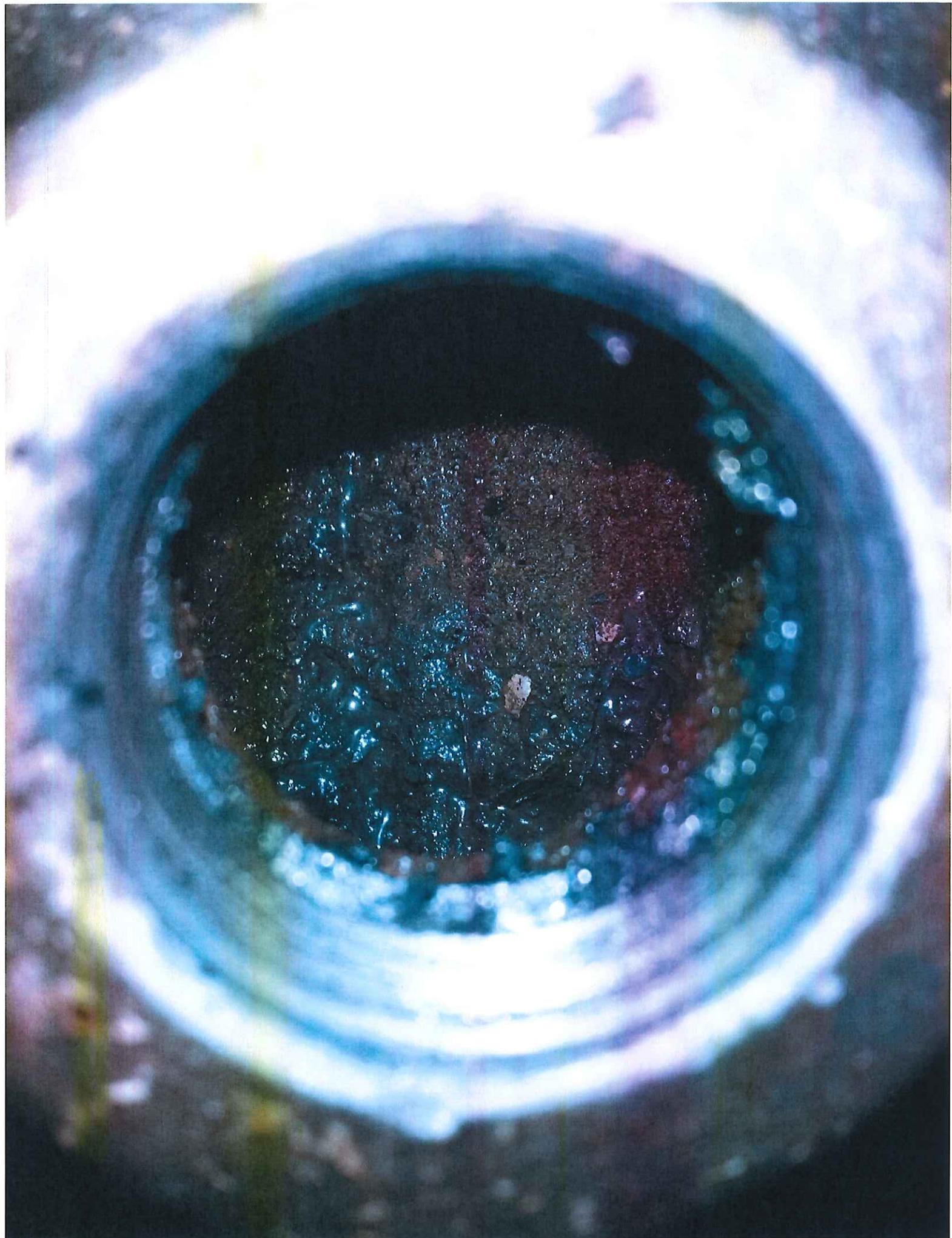


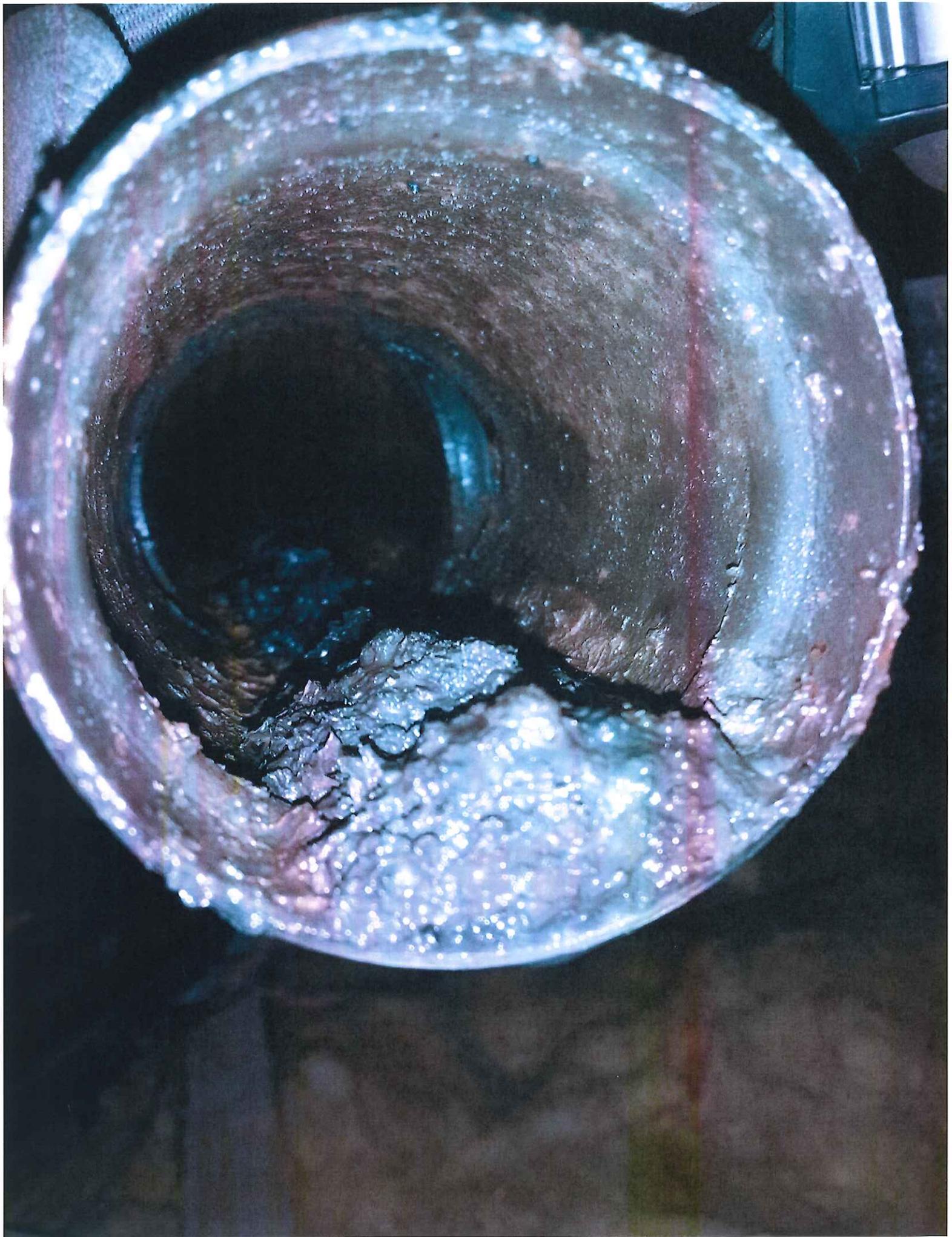




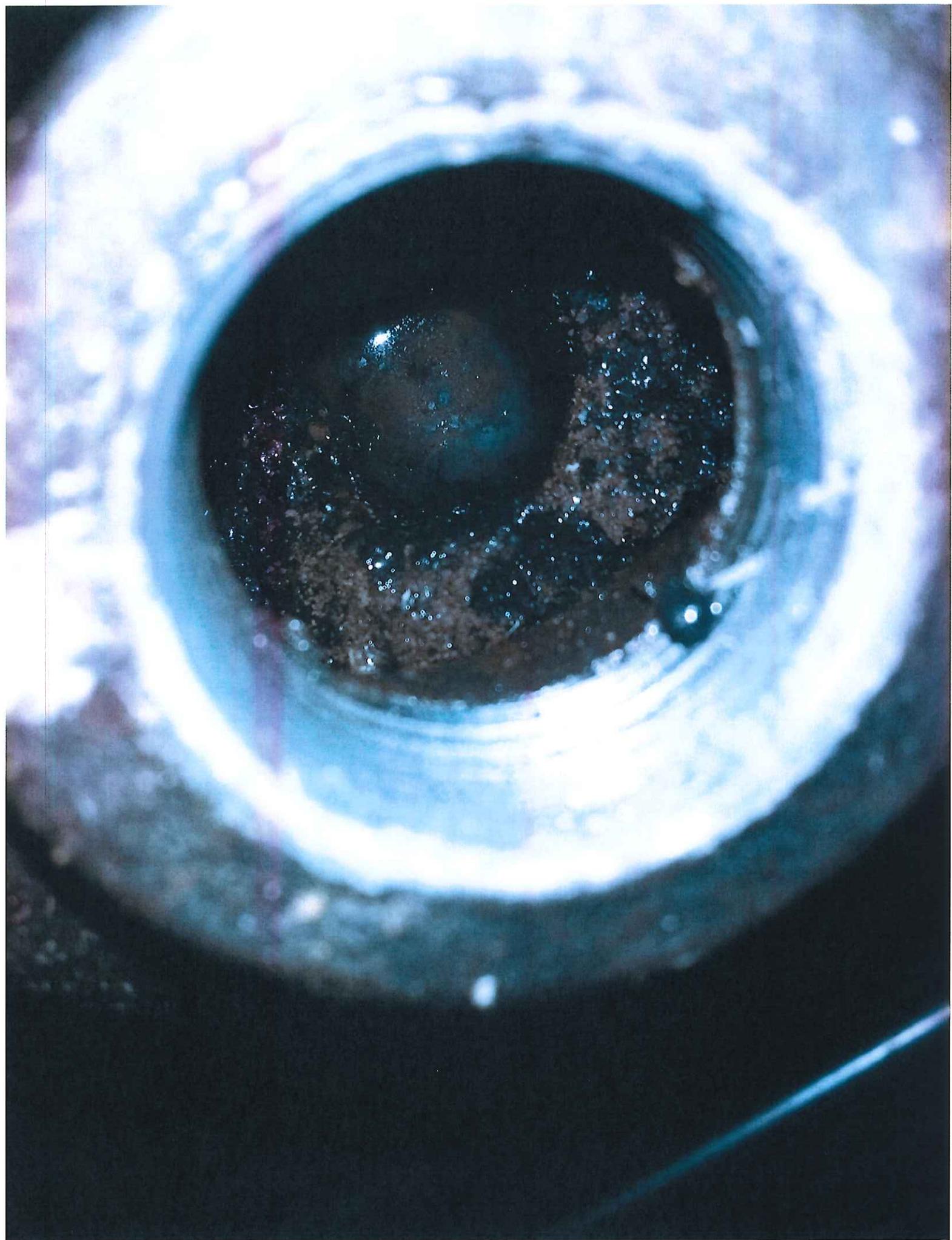




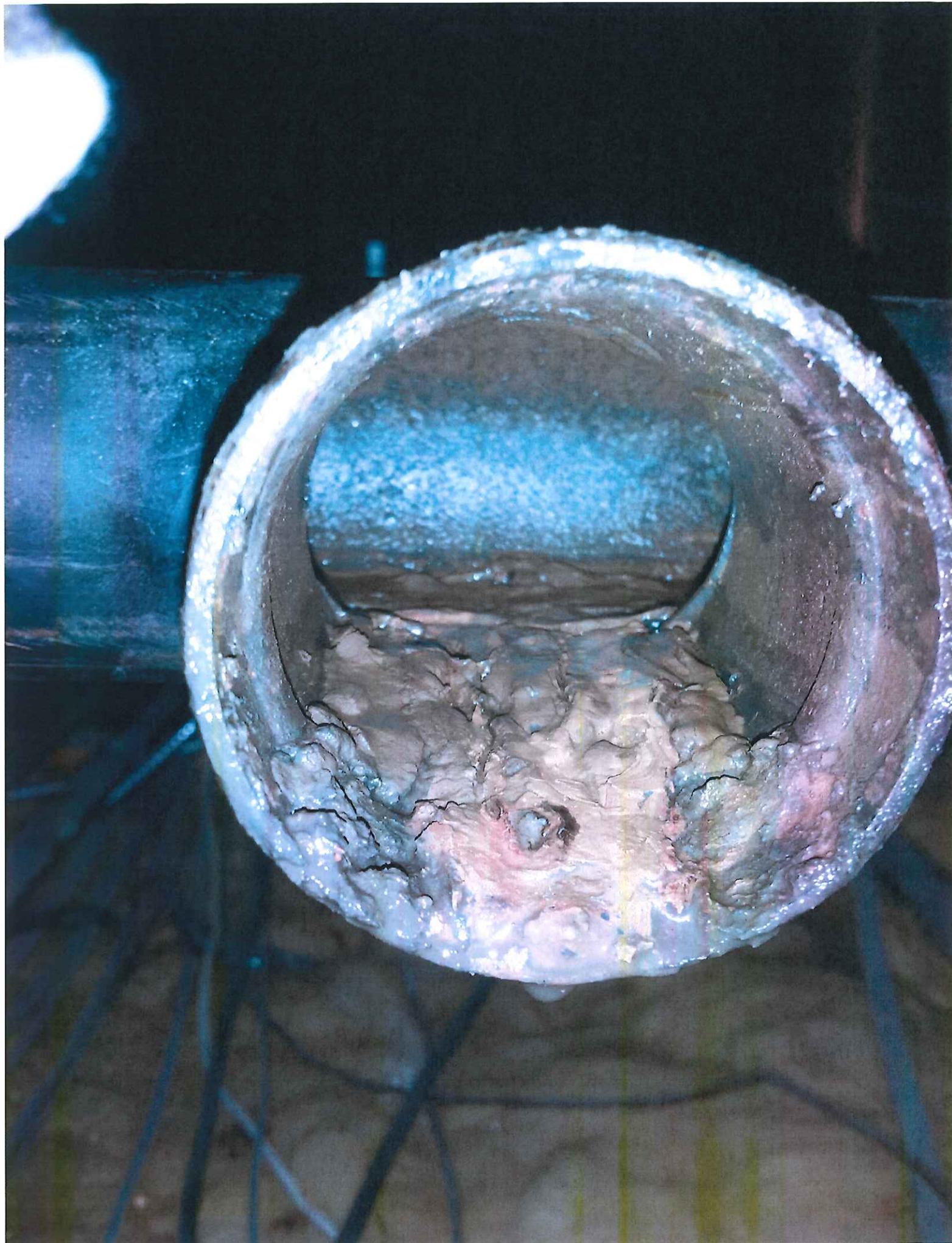




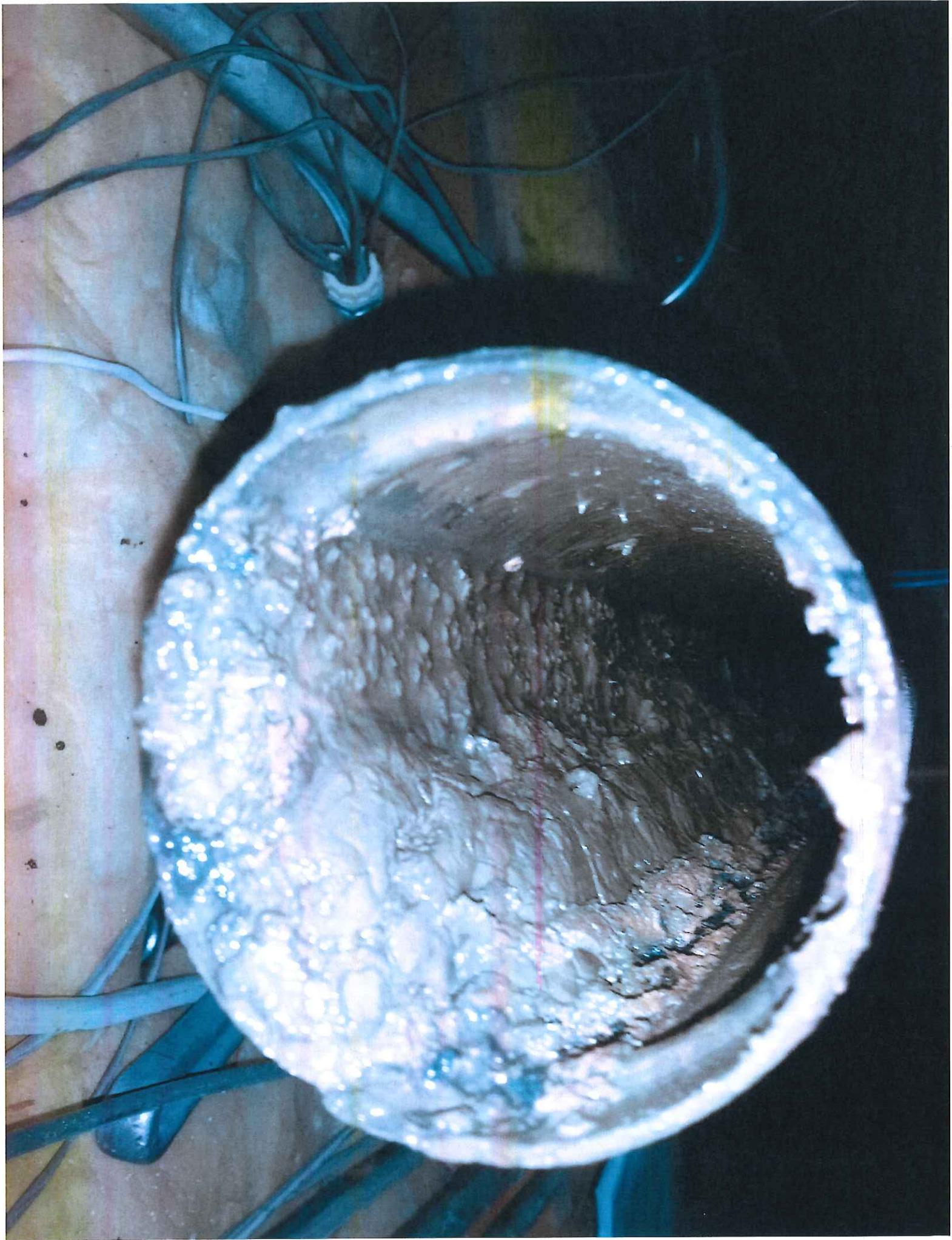






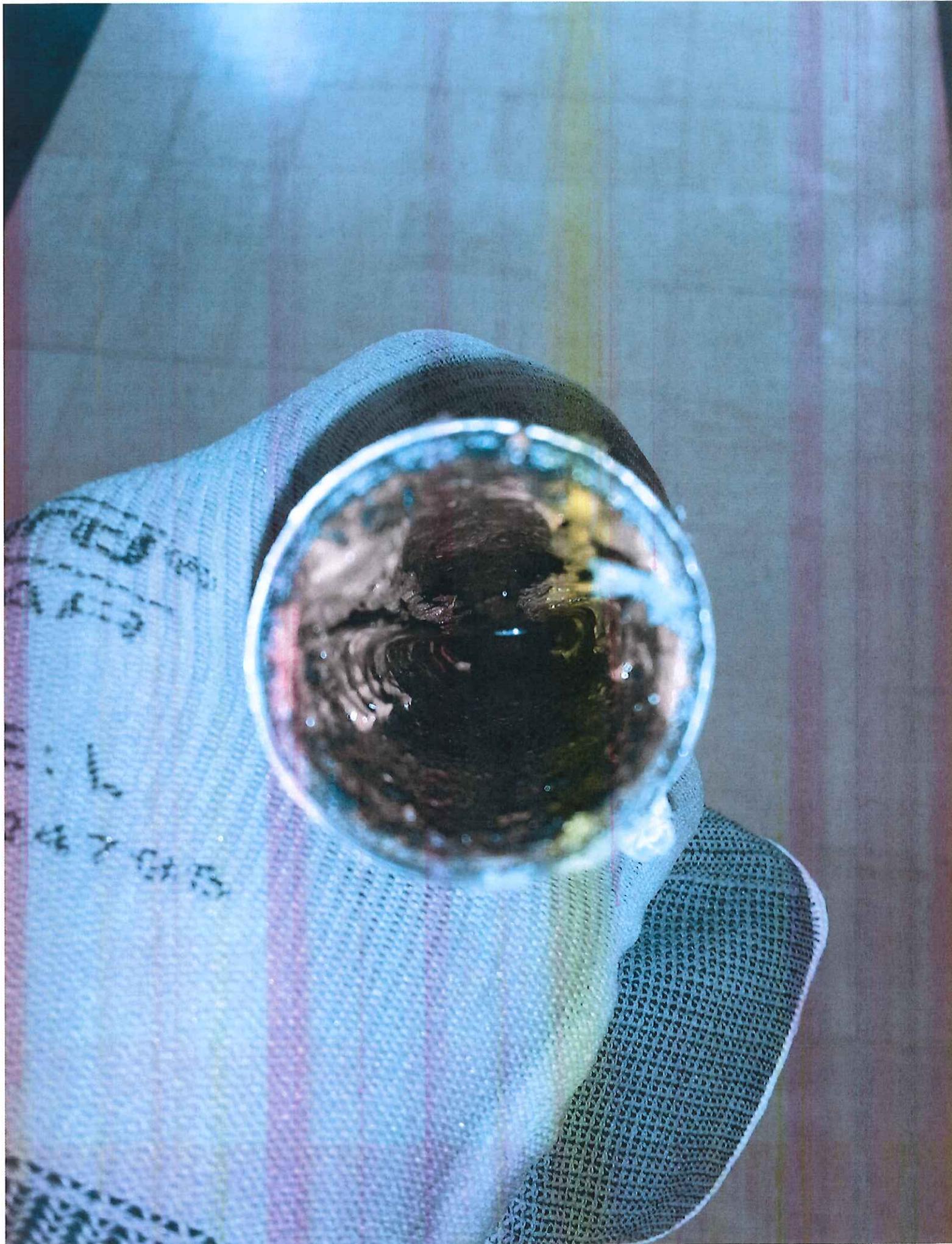






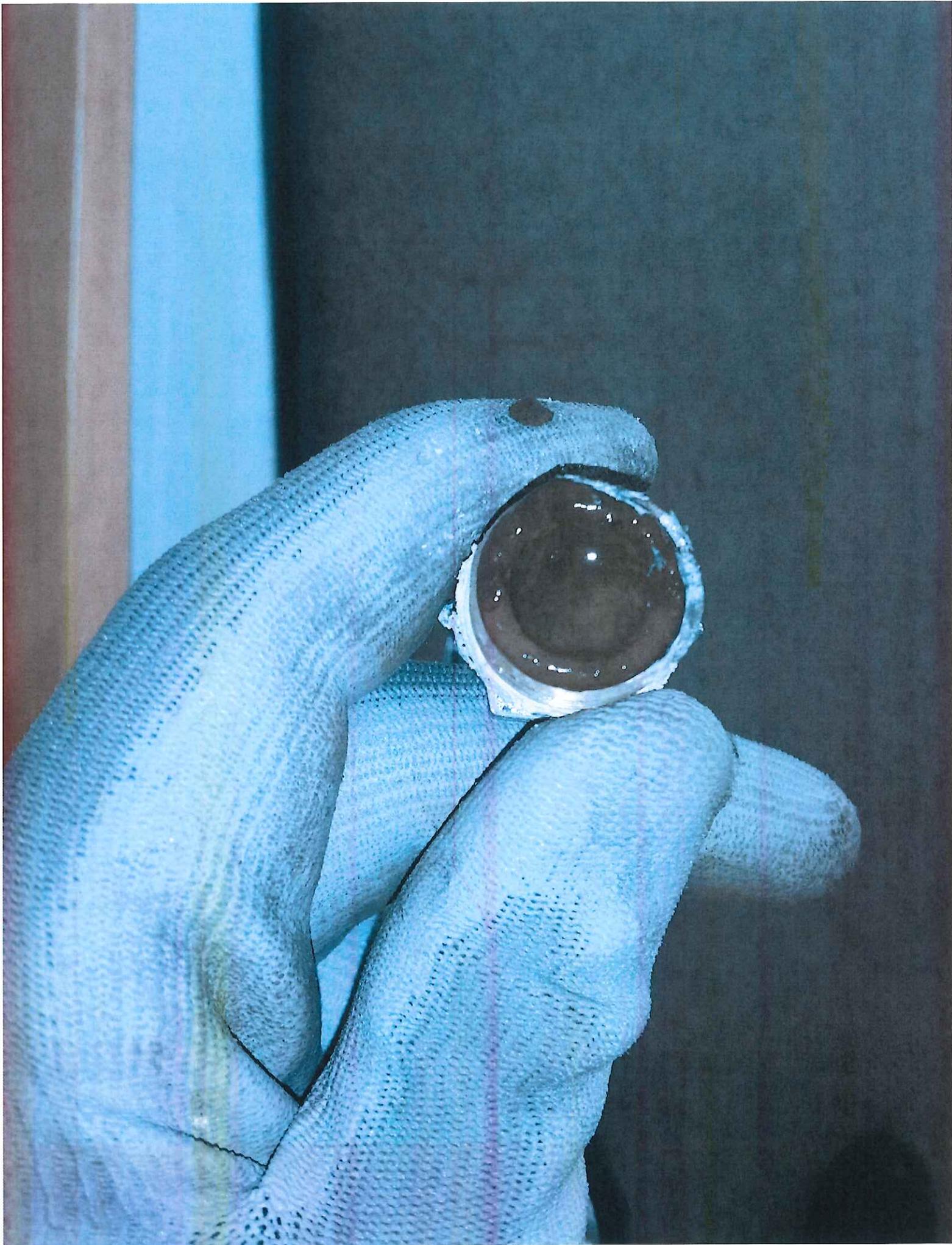




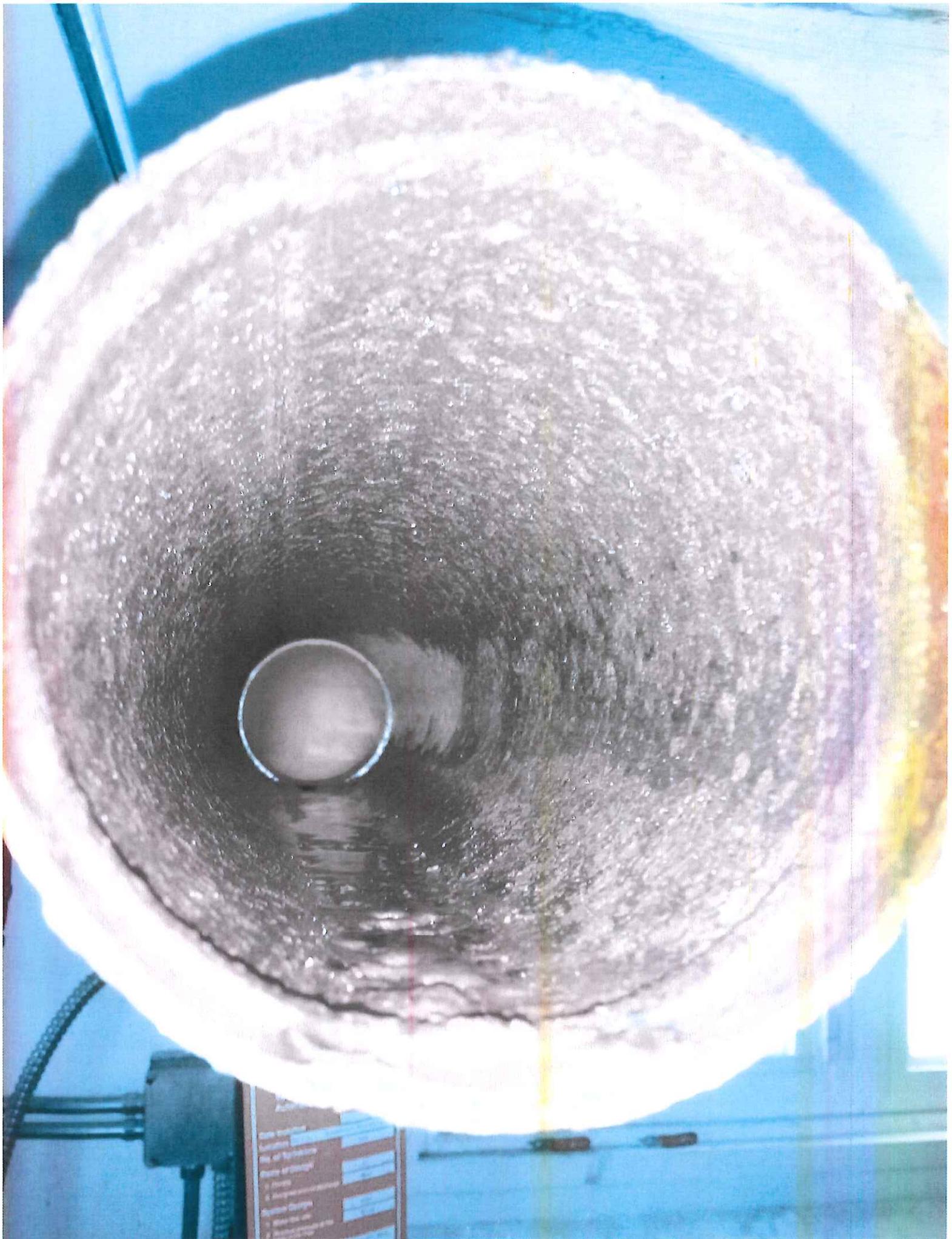




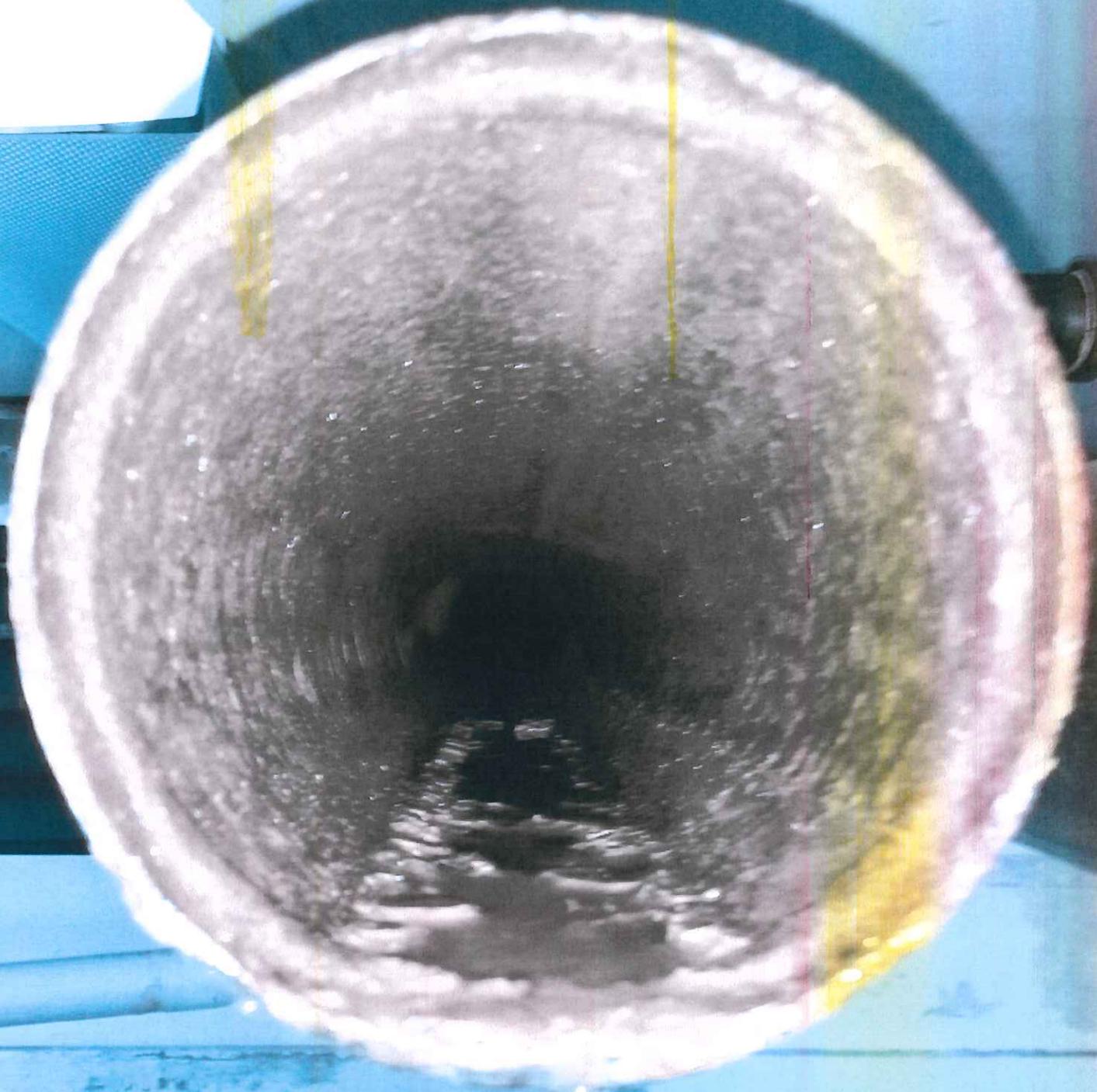








Core Number  
Location  
No. of Sections  
Date of Sample  
Y. No.  
A. No.  
B. No.  
C. No.  
D. No.  
E. No.  
F. No.  
G. No.  
H. No.  
I. No.  
J. No.  
K. No.  
L. No.  
M. No.  
N. No.  
O. No.  
P. No.  
Q. No.  
R. No.  
S. No.  
T. No.  
U. No.  
V. No.  
W. No.  
X. No.  
Y. No.  
Z. No.





**5-YEAR REPORT  
OF INSPECTION & TESTING OF  
WATER BASED FIRE PROTECTION SYSTEM**

**Inspection Date: December 24, 2015**

City of Casper Comm Dev Dept  
200 N David St Room 203  
Casper, WY 82601

**Location: Life Steps Campus System E**

**Attention: Joy Clark**  
Inspector: Ryan Bruno

The following **5-year** inspection, testing and maintenance tasks of water based fire protection systems have been performed as recommended by NFPA 25.

Last 5-year inspection: **First**

**Pressure Gauges**

1. Gauges calibrated?		No
2. Gauges replaced?	Dated 12/23/15	Yes

**Sprinkler Maintenance Testing**

3. Extra High temperature sprinklers tested every 5-years? Test date:	N/A
4. Fast response sprinklers tested at 20-years and then every ten-years thereafter? Test date:	
5. Residential sprinklers tested every 20-years? Test date:	N/A
6. Standard sprinklers tested at 50-years and then every ten-years thereafter? Test date:	
7. Dry sprinklers tested every 10-years? Test date:	N/A

**Internal Inspections**

8. Number of fire department connection check valves:	1
9. Fire department connection check valve(s) internally inspected, in good condition and operated properly?	Yes
10. Number of main riser check valves: 2" Check Valve	2
11. Main riser check valve(s) internally inspected, in good condition and operated properly?	2
12. Number of alarm check valves	0
13. Alarm check valve(s) internally inspected, in good condition and operated properly?	N/A
14. Dry valve(s) internally inspected, in good condition and operated properly?	N/A
15. Number of preaction valves:	0
16. Preaction valves internally inspected, in good condition and operated properly?	N/A
17. Number of Deluge valves:	0
18. Deluge valves internally inspected, in good condition and operated properly?	N/A
19. Number of pressure reducing valves:	0
20. Pressure reducing valves internally inspected, in good condition and operated properly?	N/A
21. Number of pressure restricting valves:	0
22. Pressure restricting valves internally inspected, in good condition and operated properly?	N/A
23. Number of strainers: and restricting orifices:	0
24. Strainers and restricting orifices internally inspected, in good condition and operated properly?	N/A

**5-YEAR REPORT OF INSPECTION & TESTING OF  
WATER BASED FIRE PROTECTION SYSTEM**

**Standpipe systems**

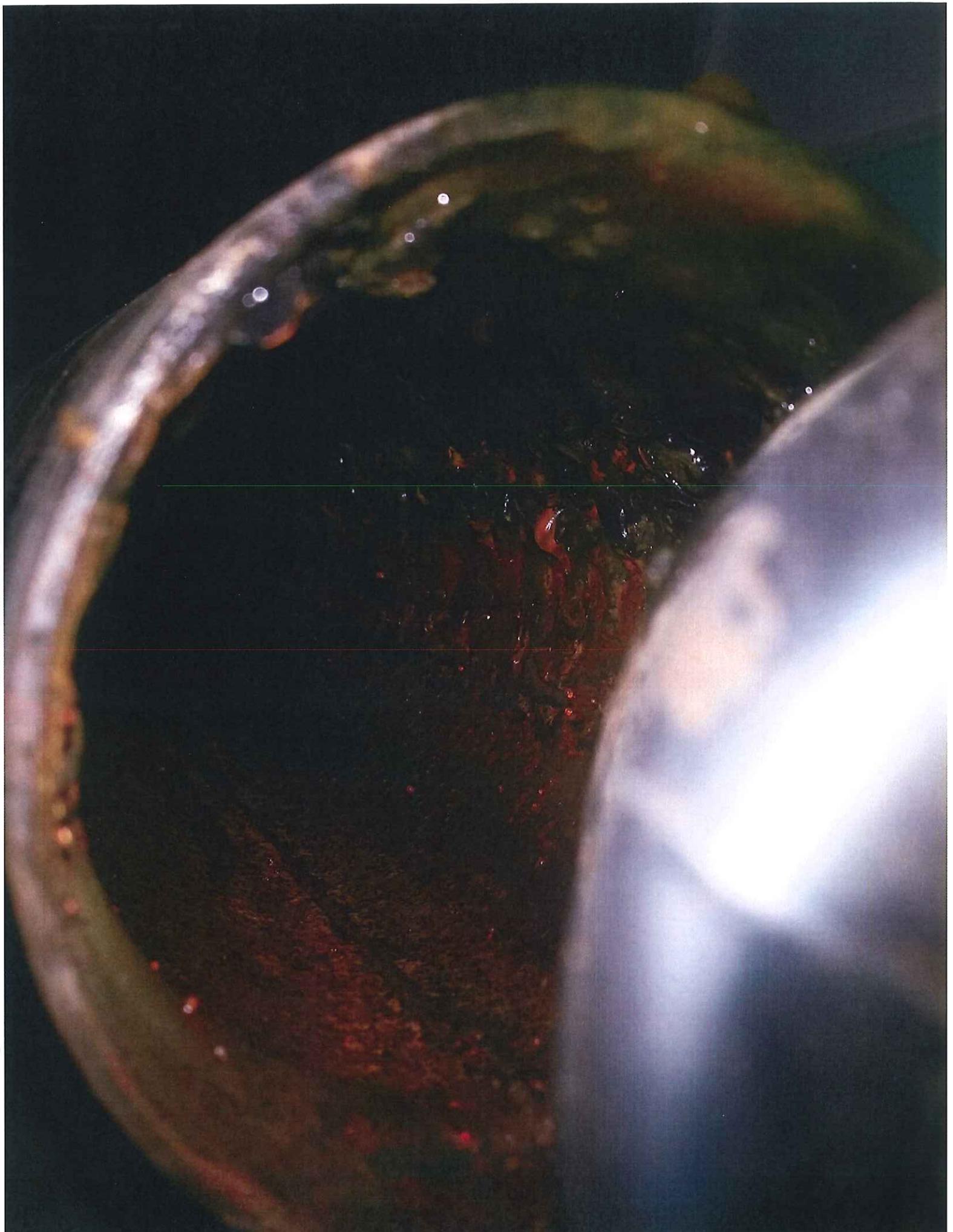
25. Number: 0 and type of standpipe systems:	n/a
26. Standpipe flow tested every 5-years?	n/a
27. Dry stand pipe hydrostatically tested ever 5-years?	n/a

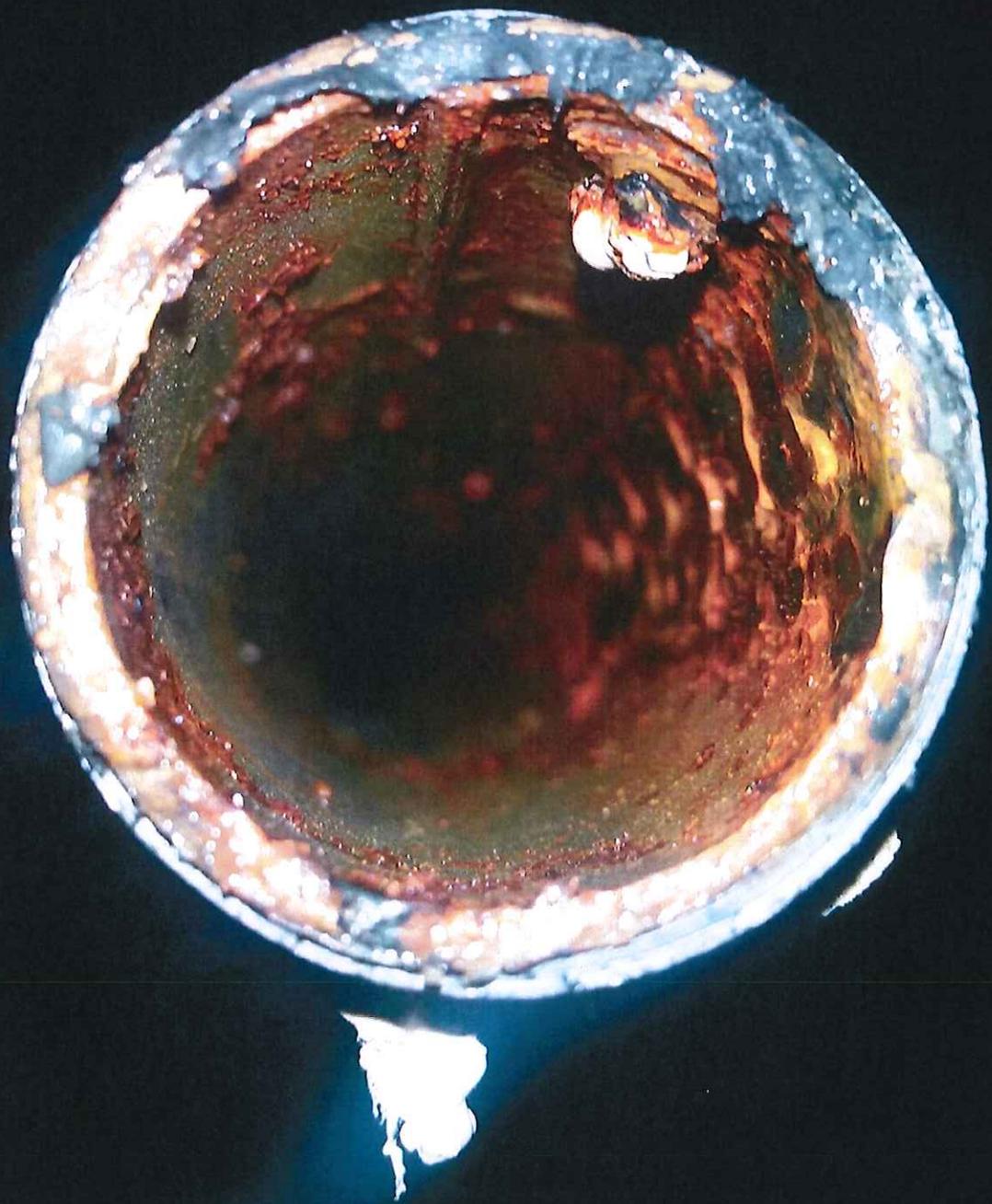
**Internal Condition of Sprinkler Piping**

28. Number of branch lines examined: Attic, Main Floor and Basement	15
29. Number of cross mains examined: Attic, Main Floor and Basement	4
30. Riser examined? Attic Main Floor Basement	Yes
31. System valve examined? Located in Basement	Yes
32. Other points examined:	No
33. Does the interior of sprinkler piping appear to be in satisfactory condition?	No
32. Summary of internal inspection: The Attic Piping is in fair to good condition. The main floor piping does not drain properly and also has buildup in main and pipe is thinning. The Basement pipe has buildup and thinning.	
33. Explanation of "No" answers. <b>Except for the attic the main has buildup and is getting thin on the bottom of the pipe where water sets due to not draining properly.</b>	
34. Adjustments or corrections made? <b>Replaced gauges</b>	
35. Desirable improvements. <b>Main floor and basement could possibly need to be replaced along with proper grade. The dry valve is severely corroded on the inside and does not always set up properly.</b>	



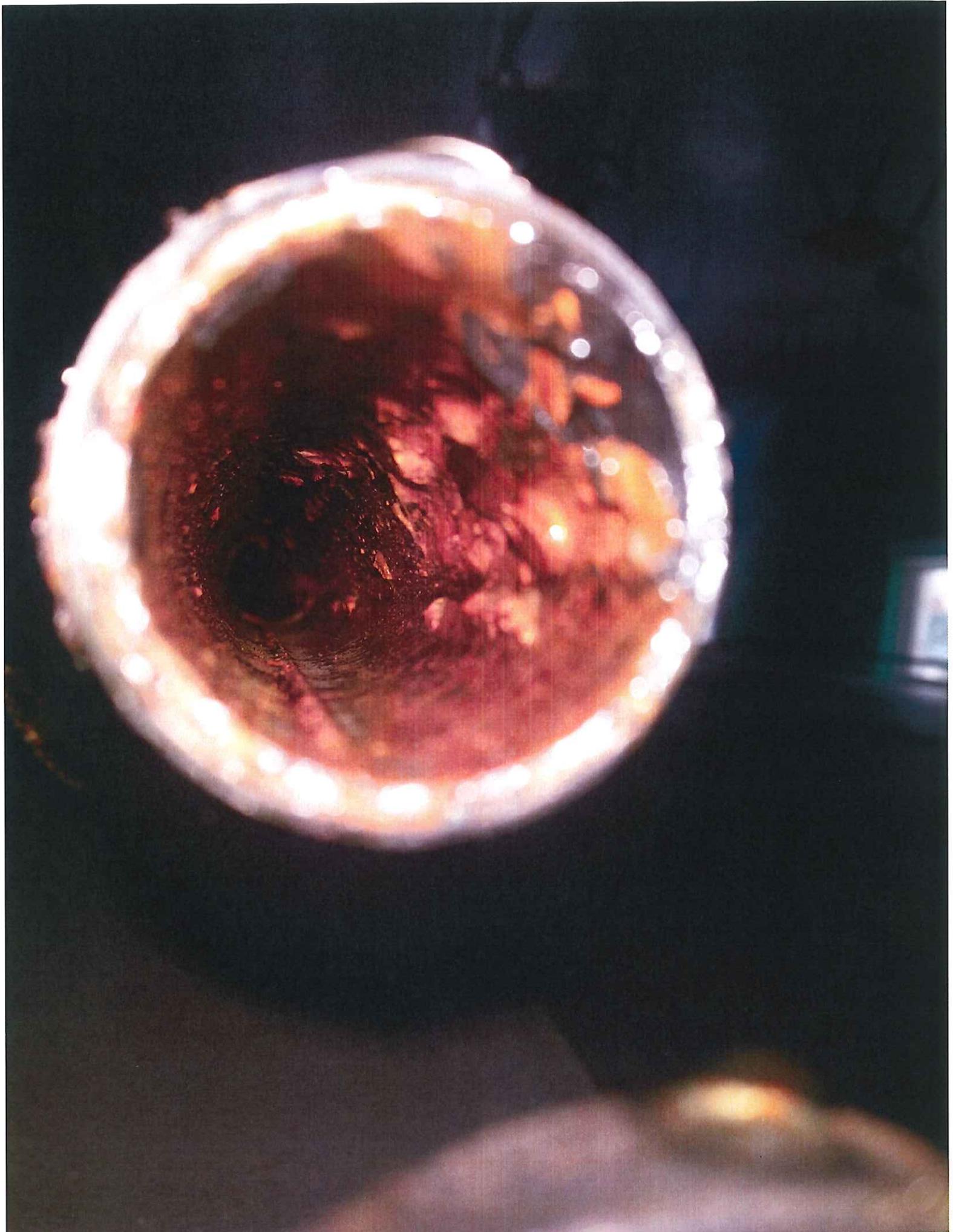
System E  
Customer Copy

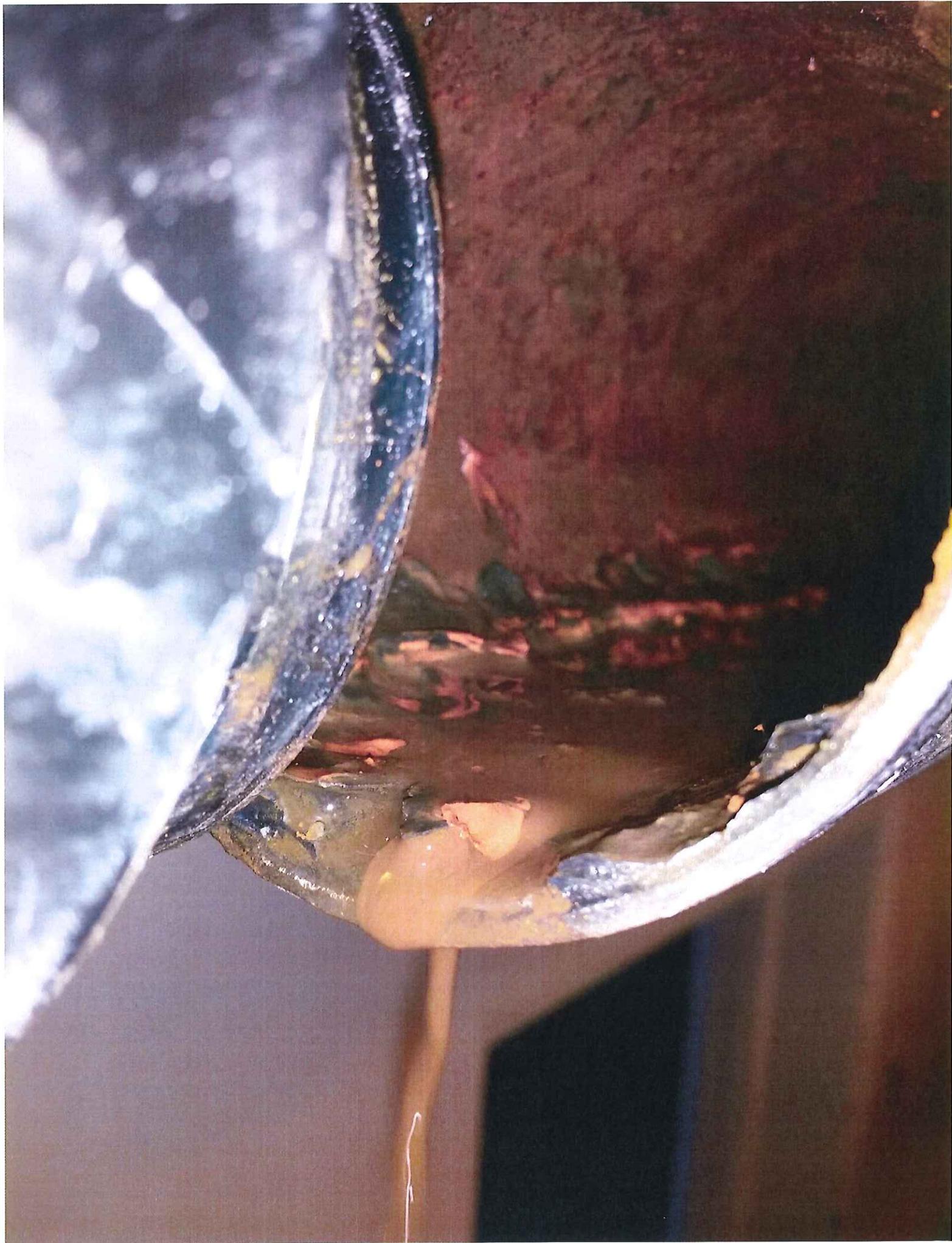




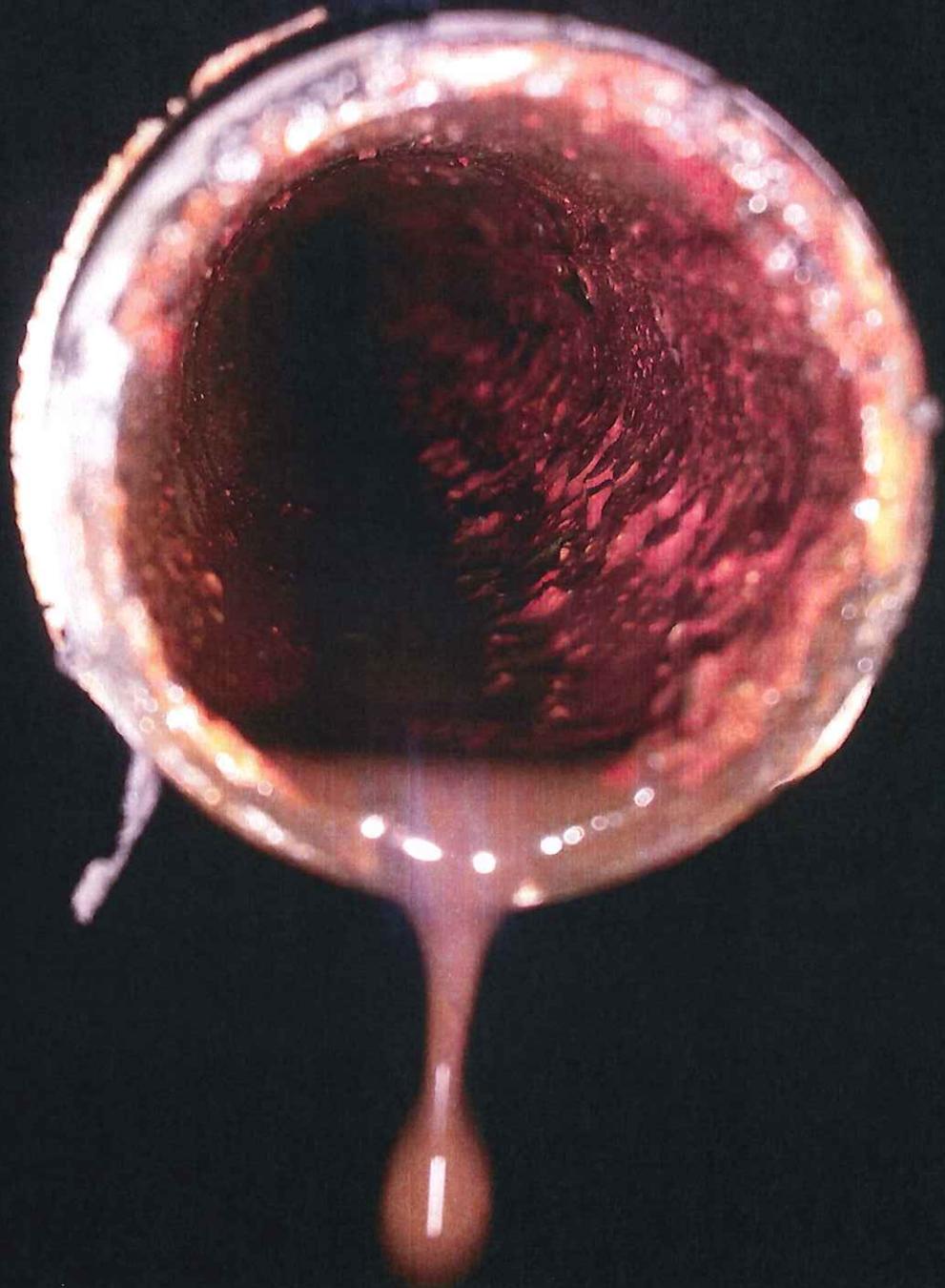


Wyoming MACHINERY COMPANY CAT

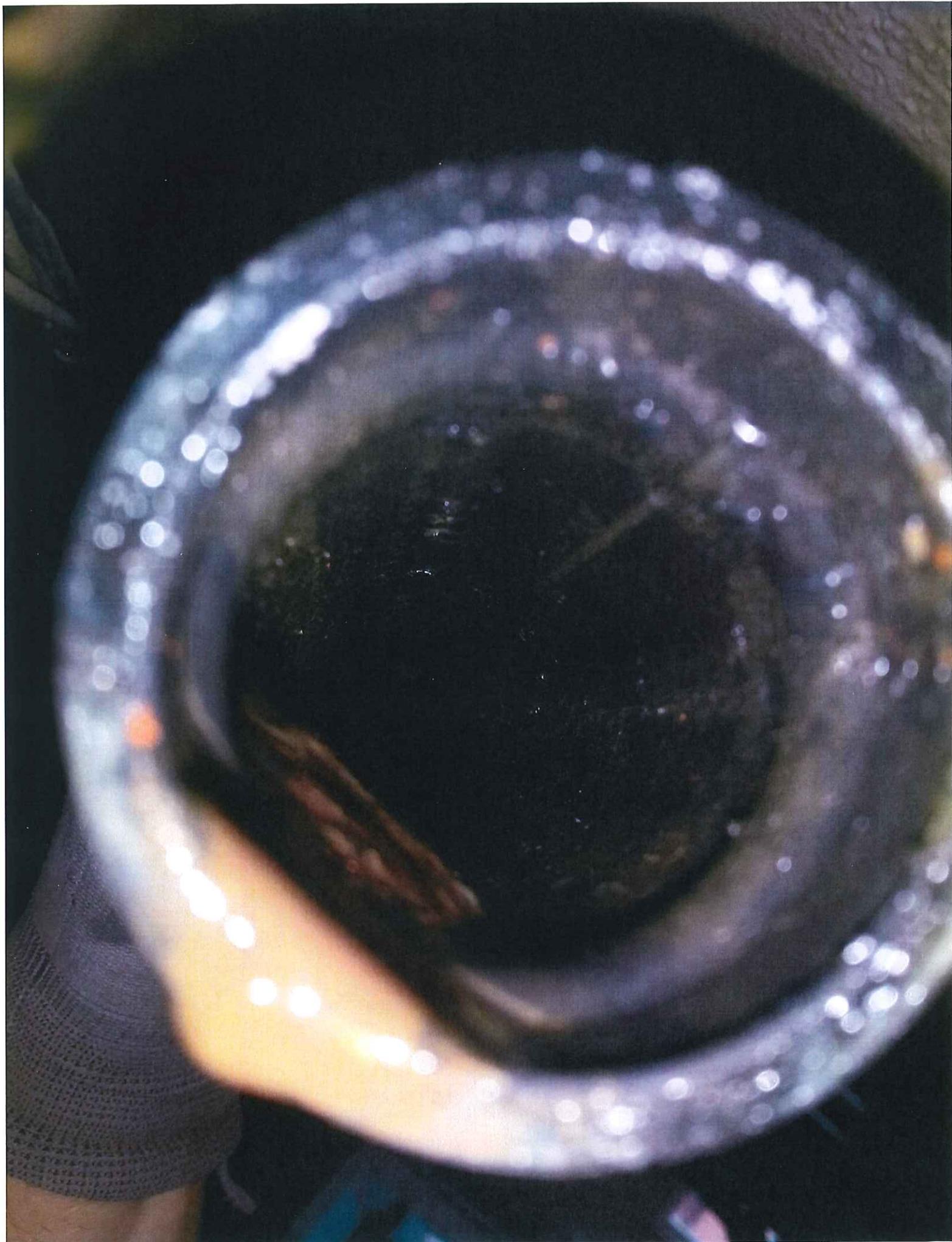


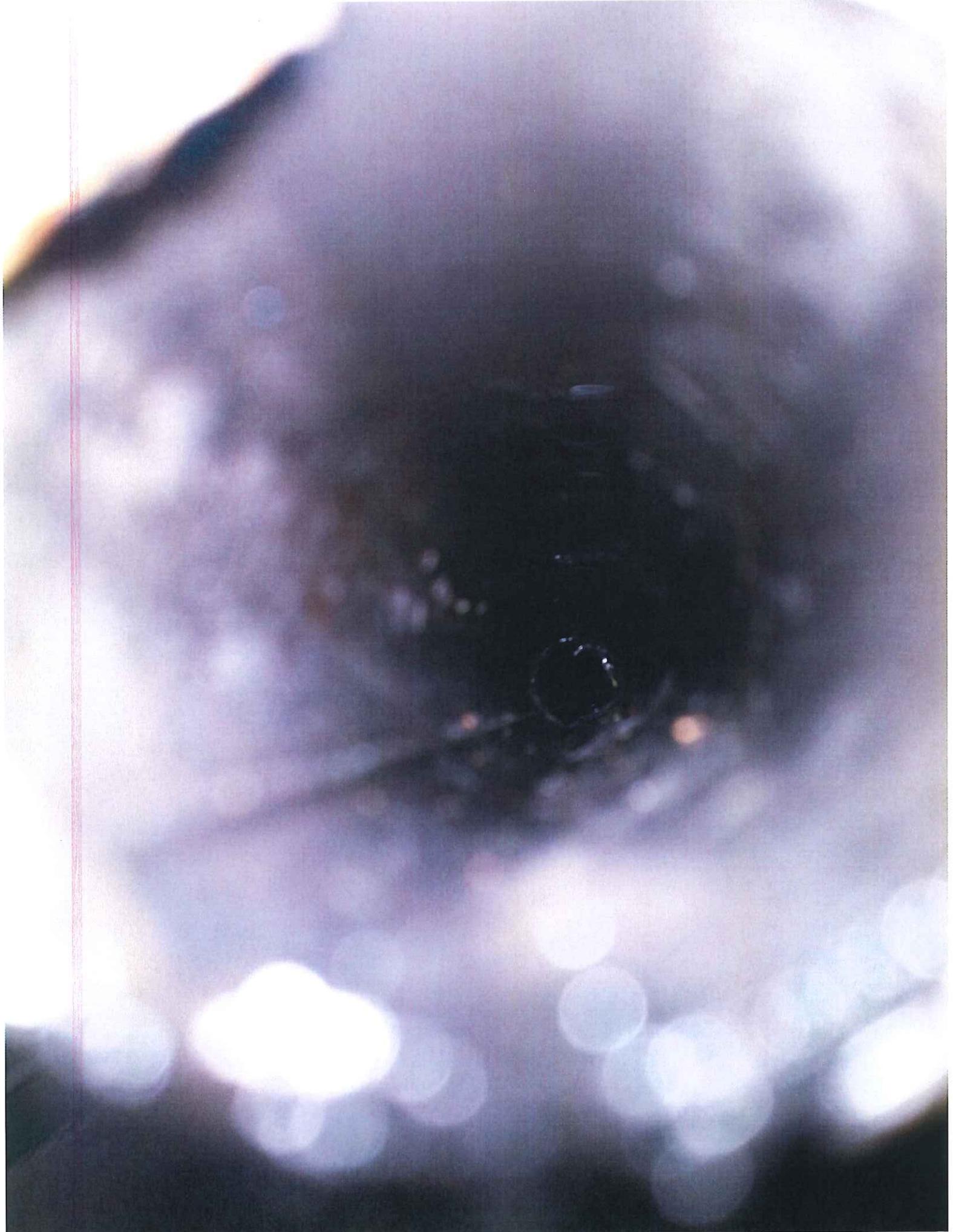


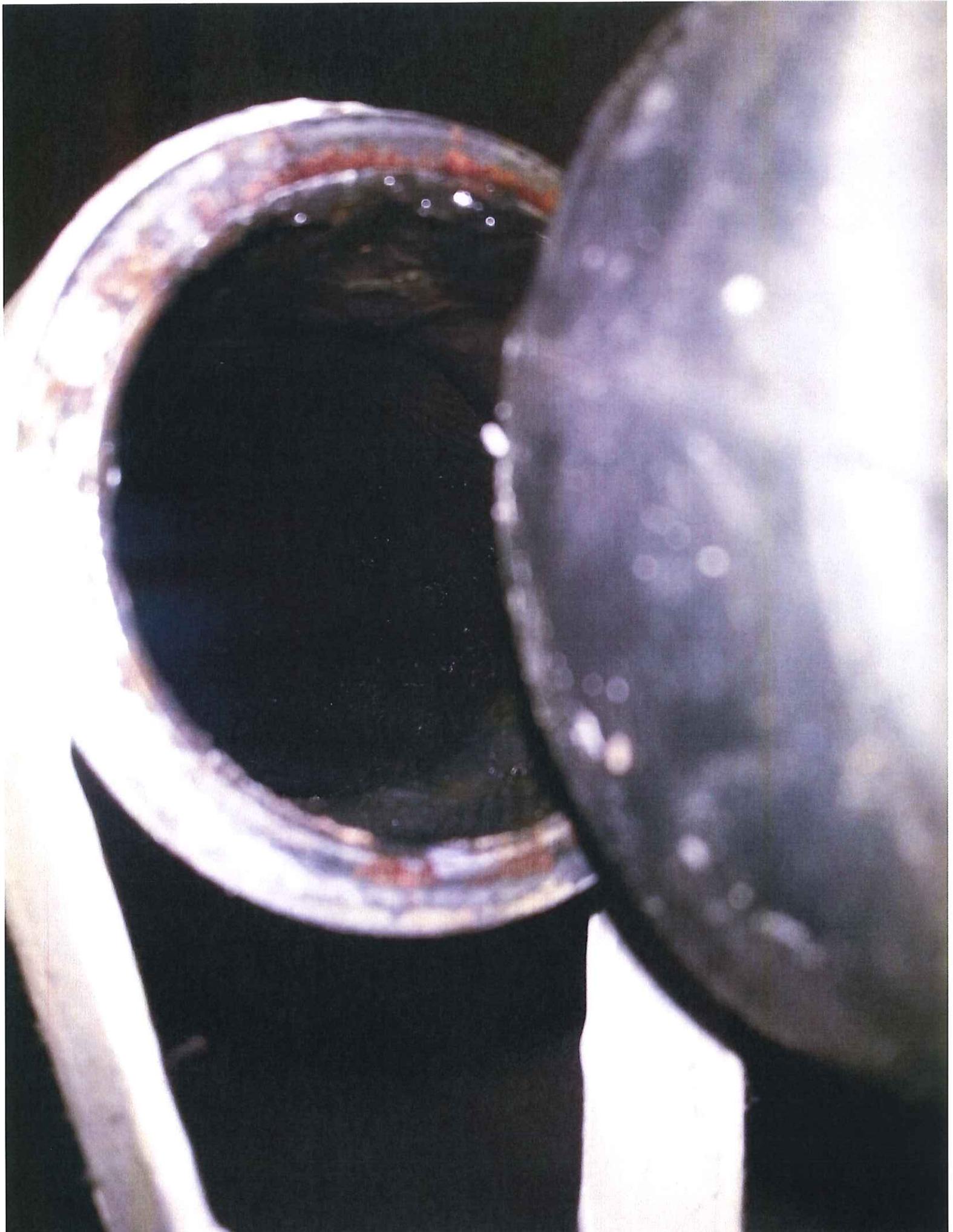






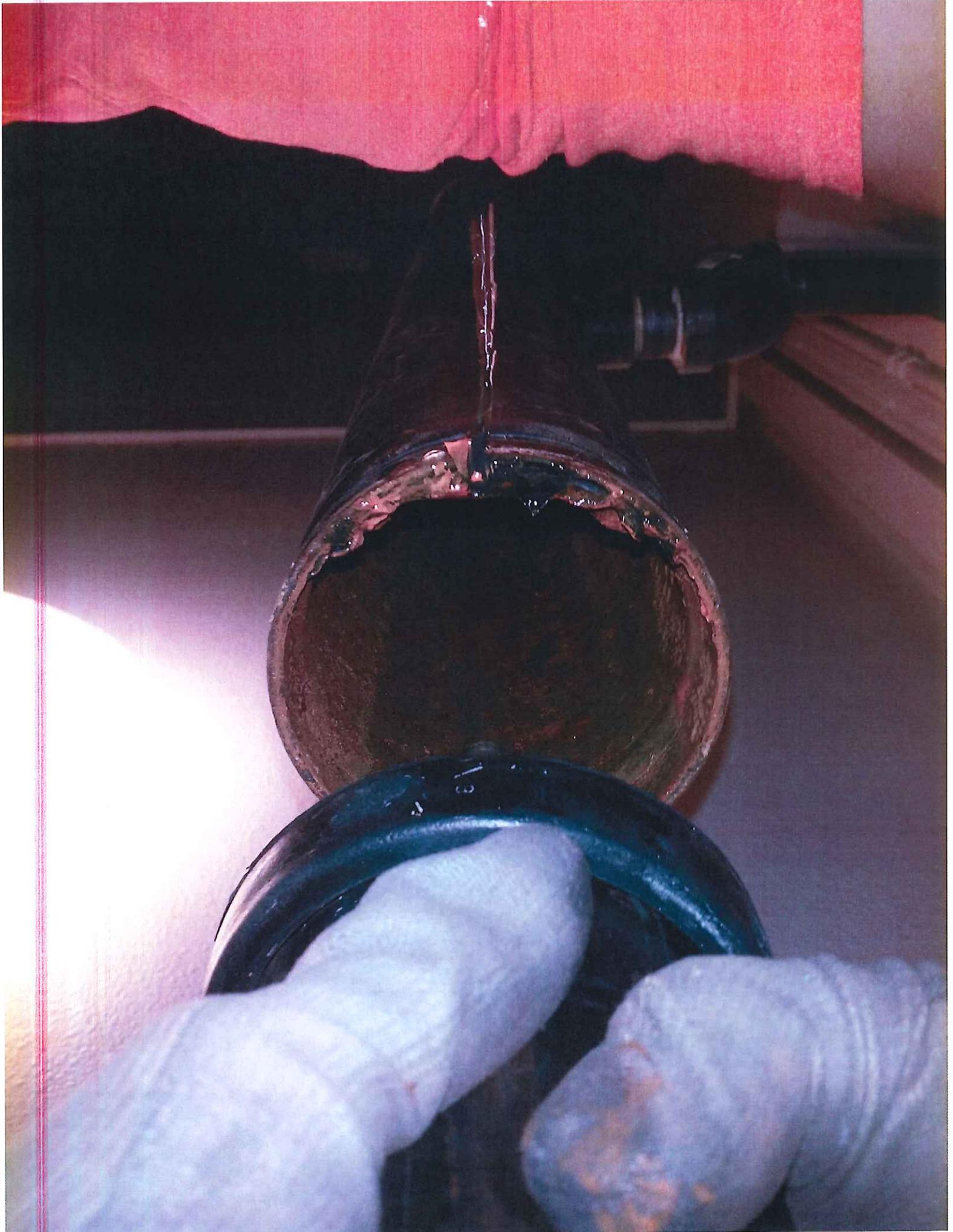


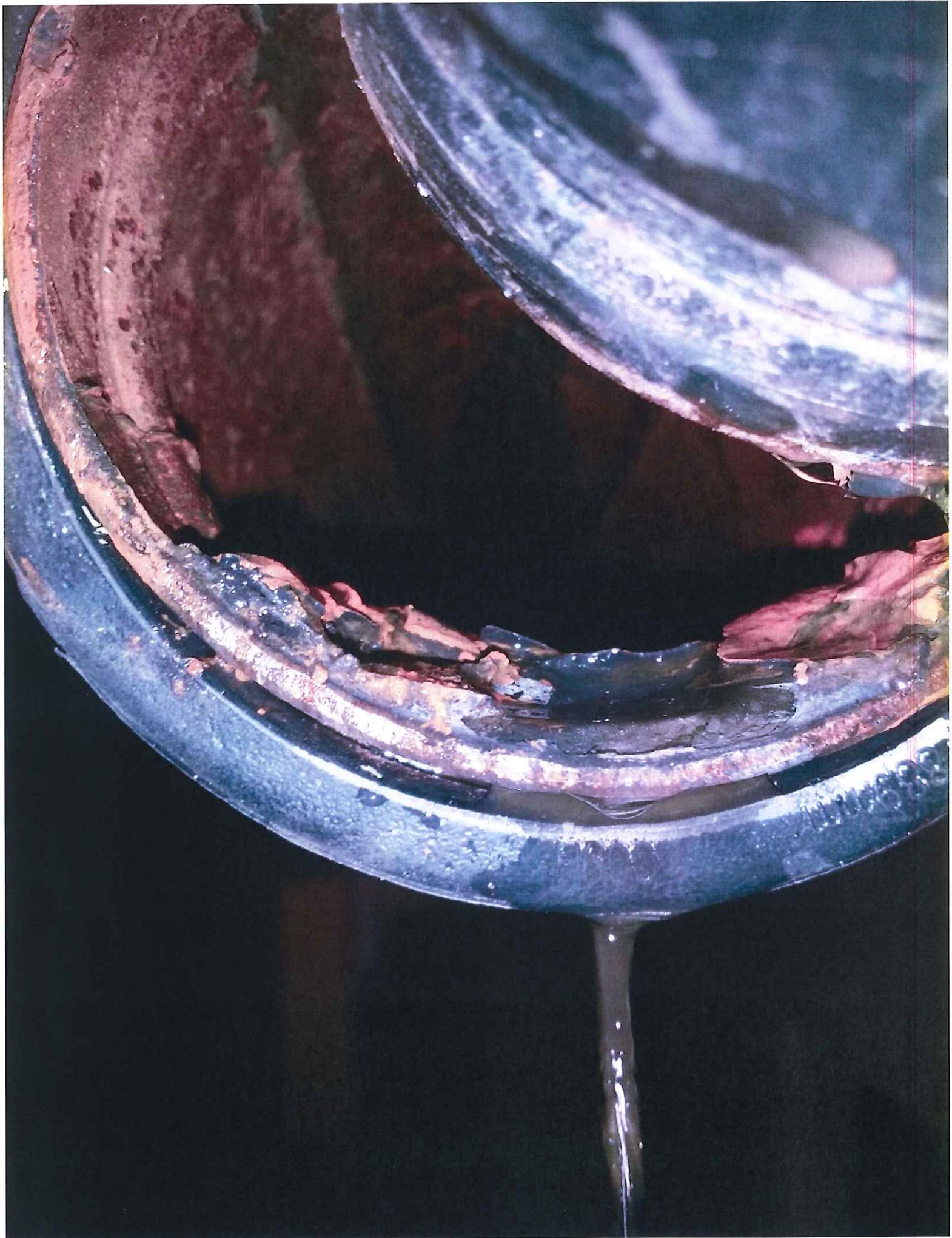


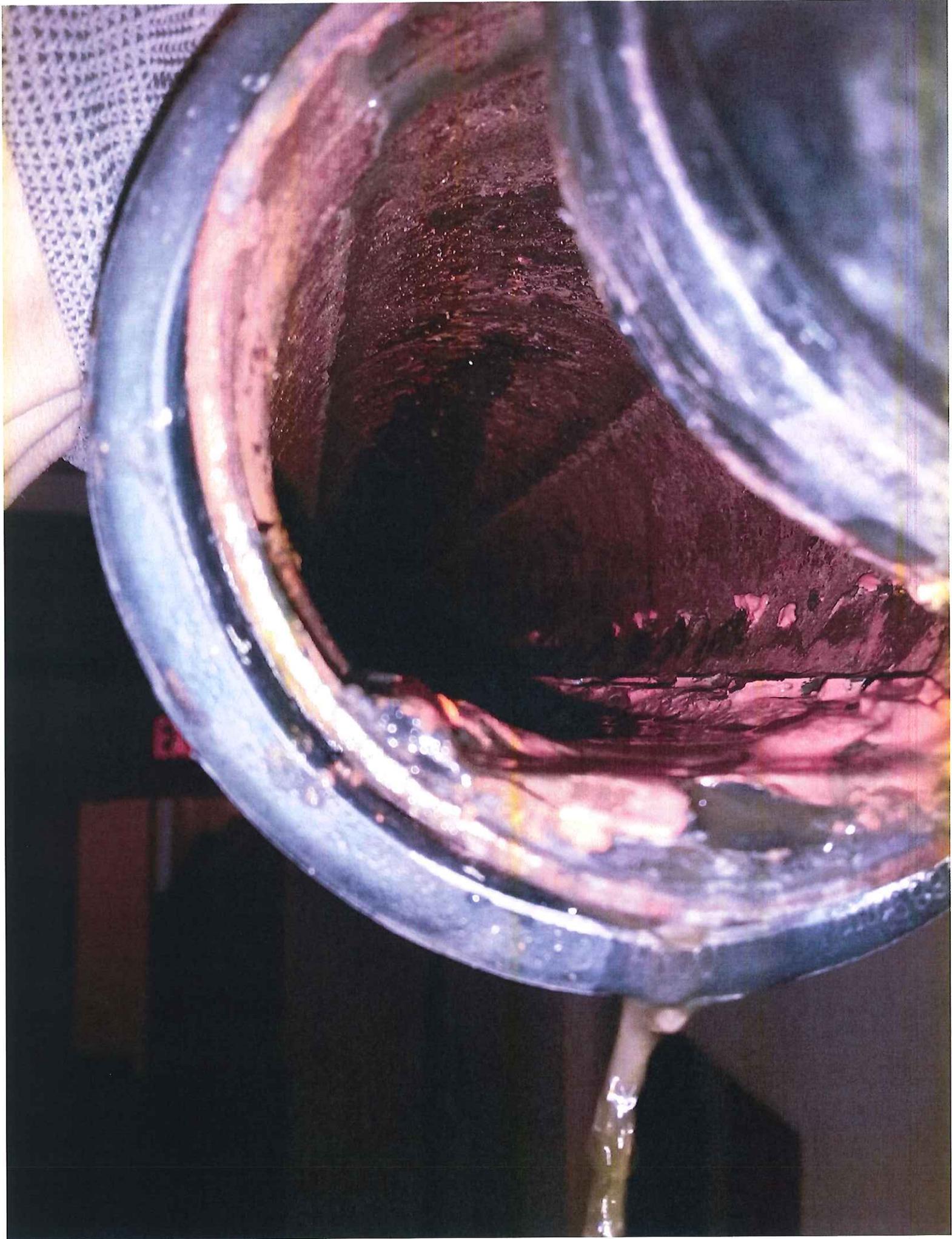






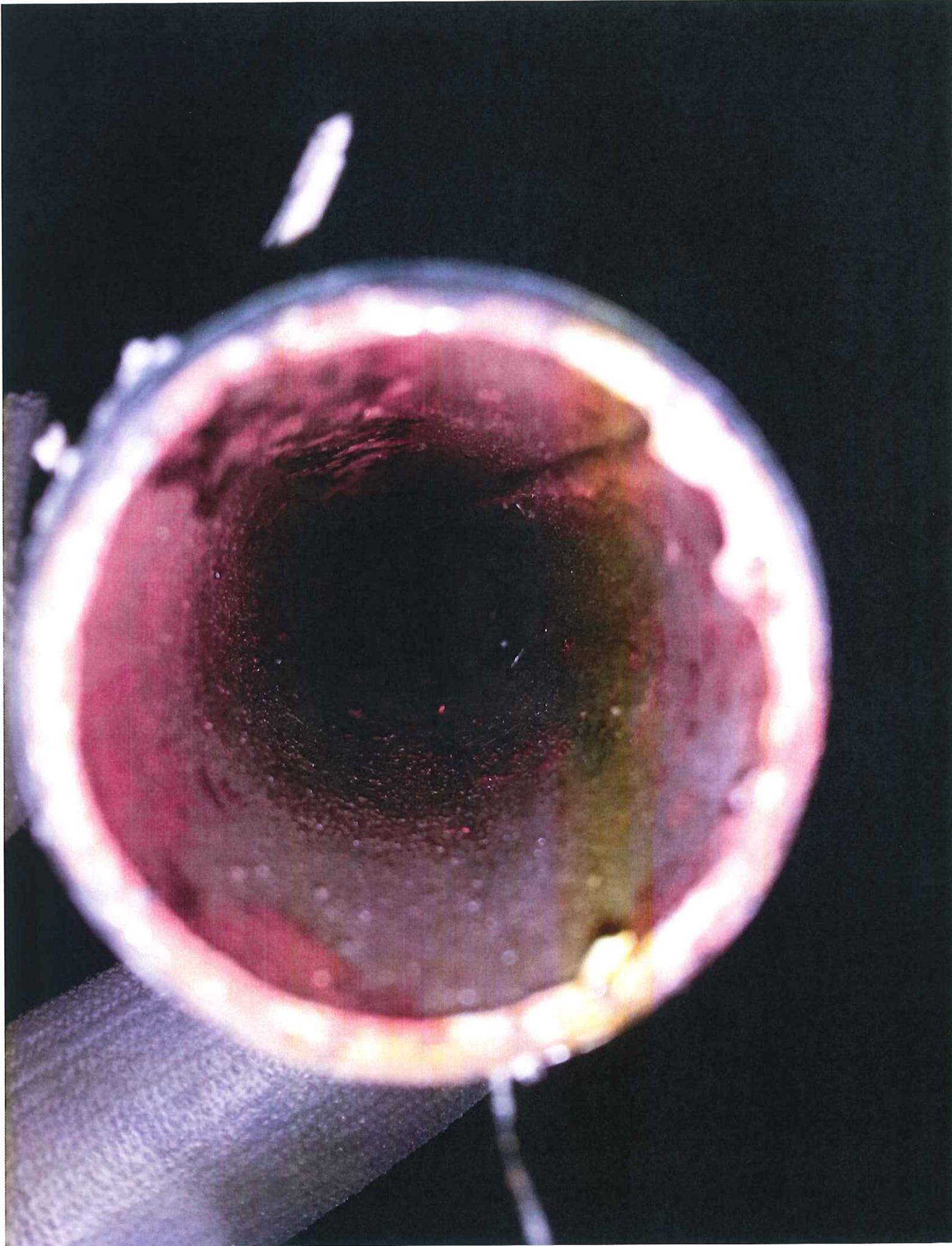


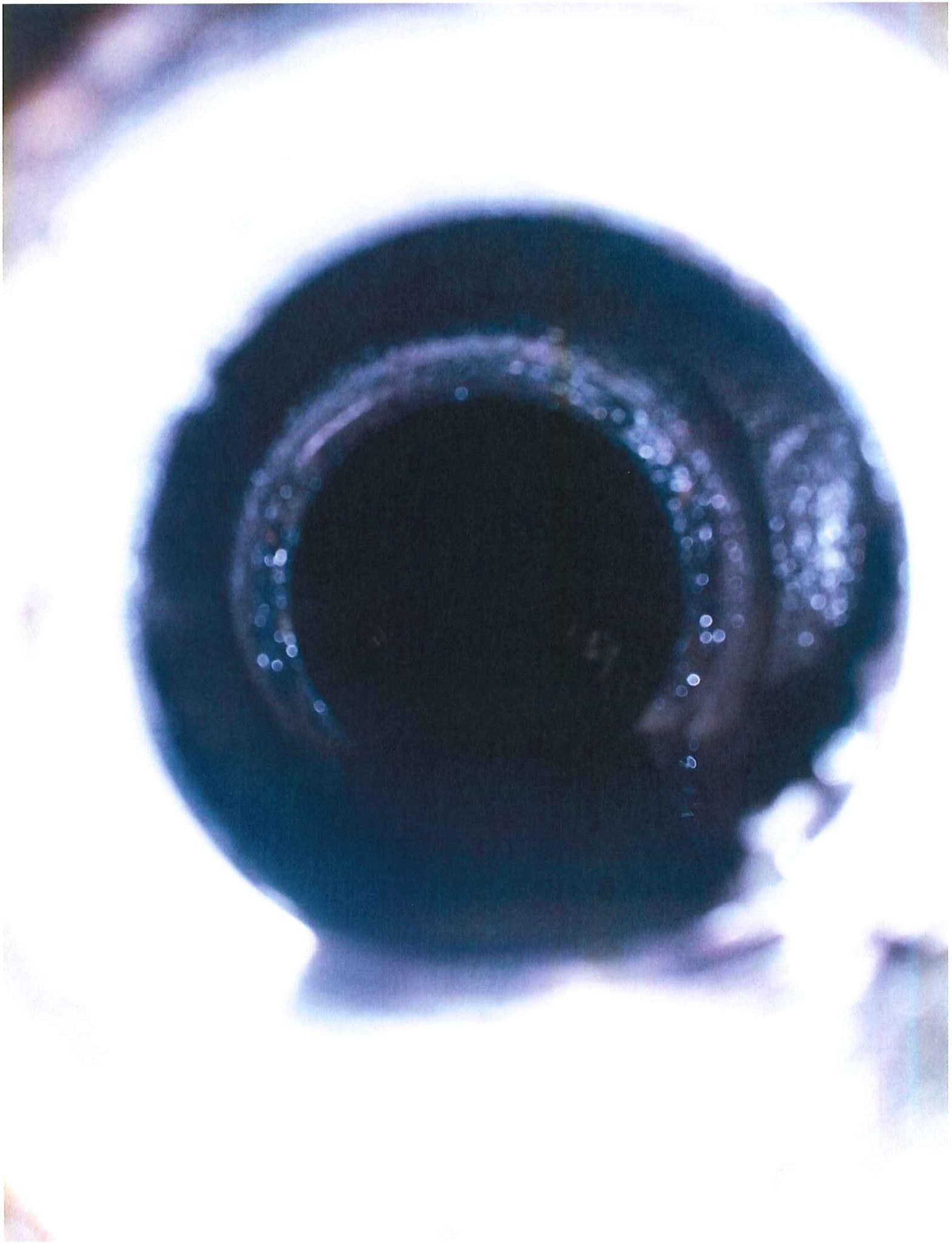




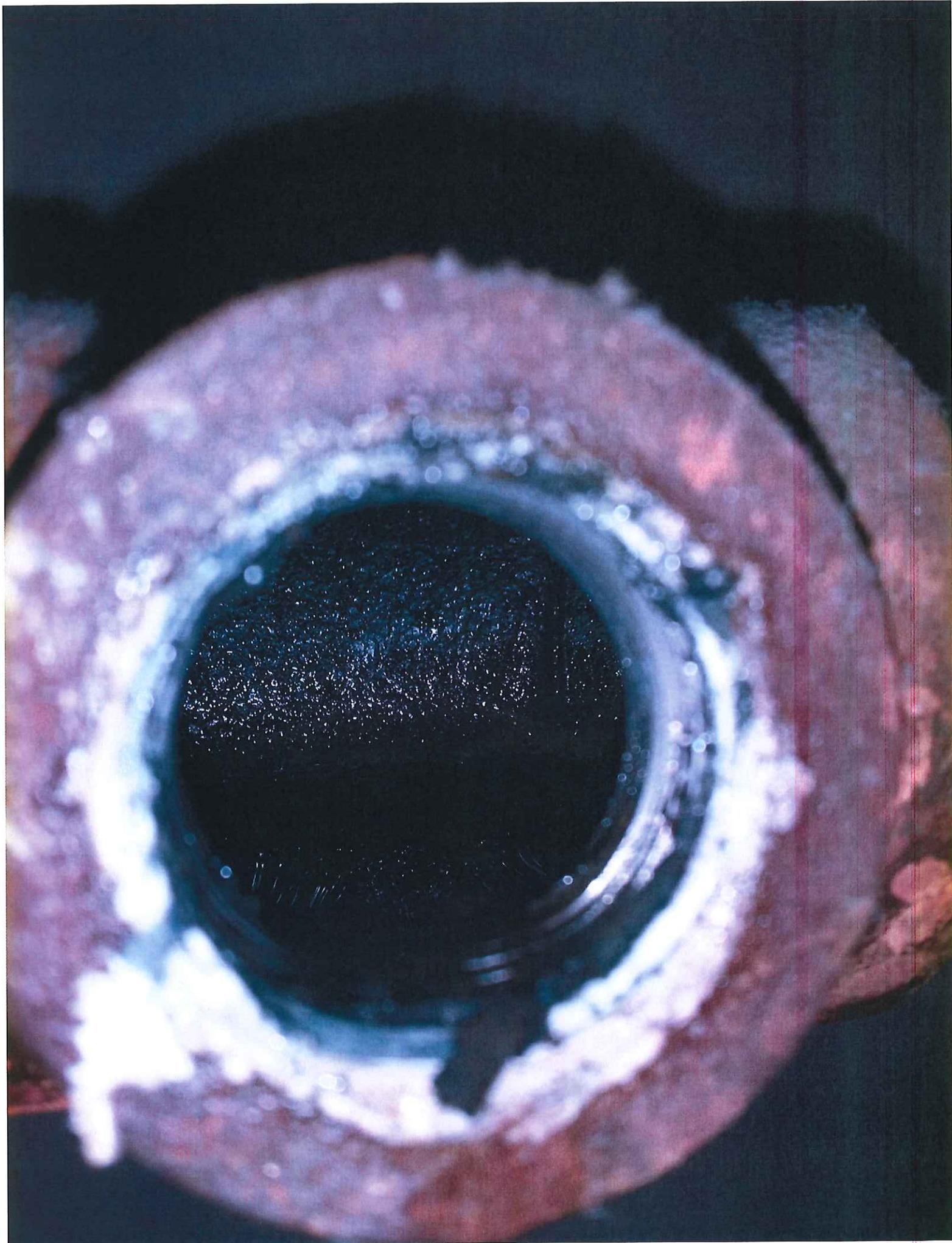


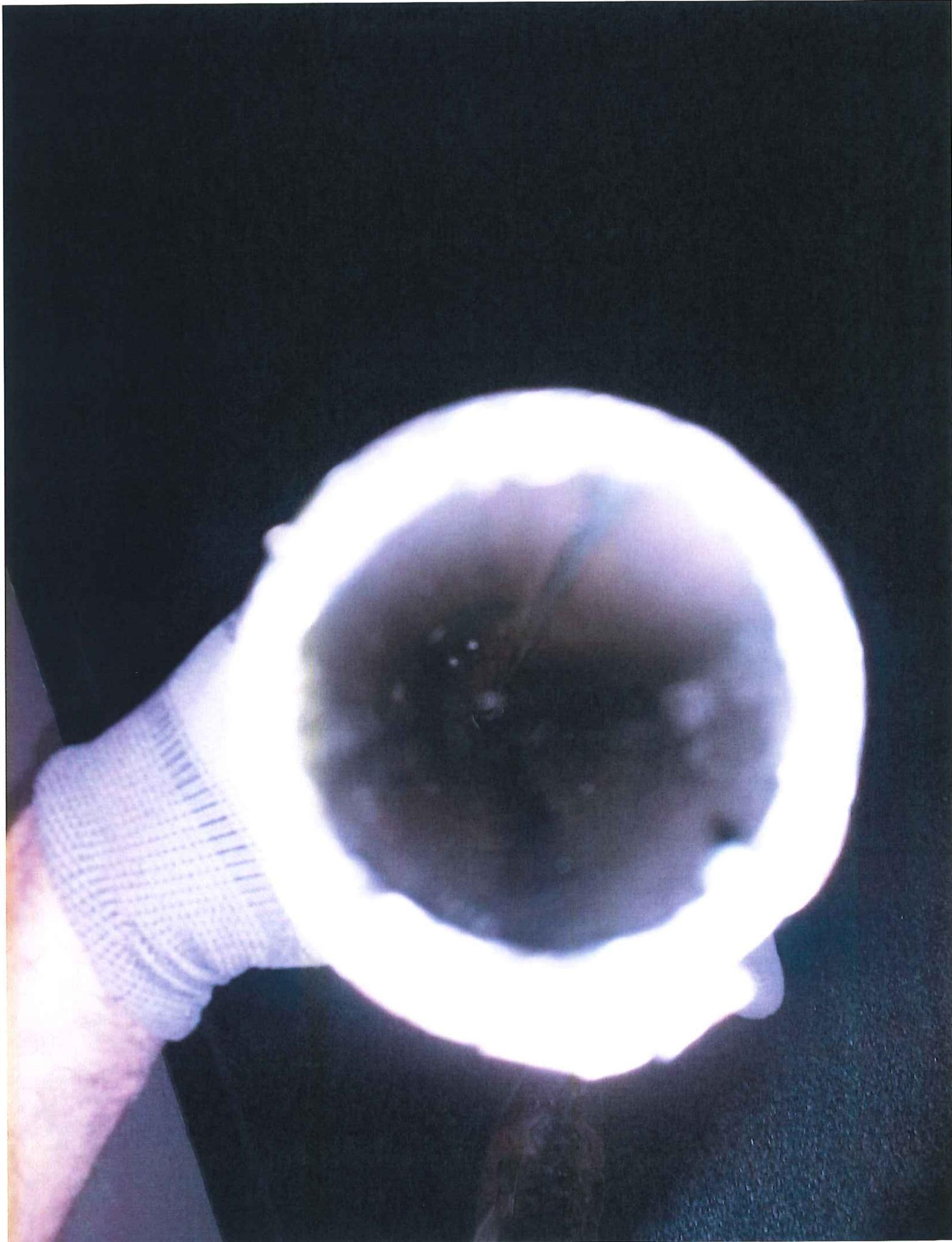


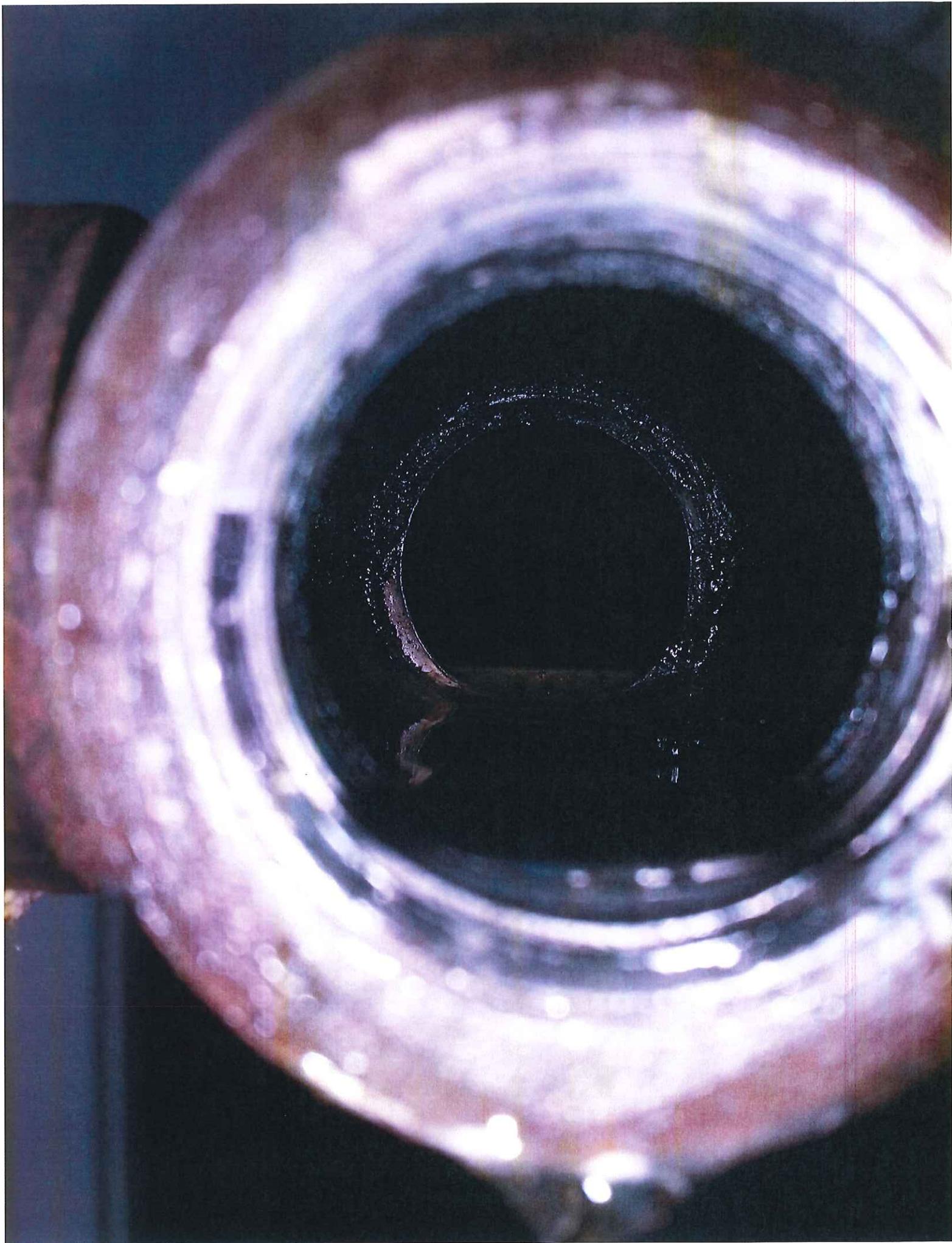


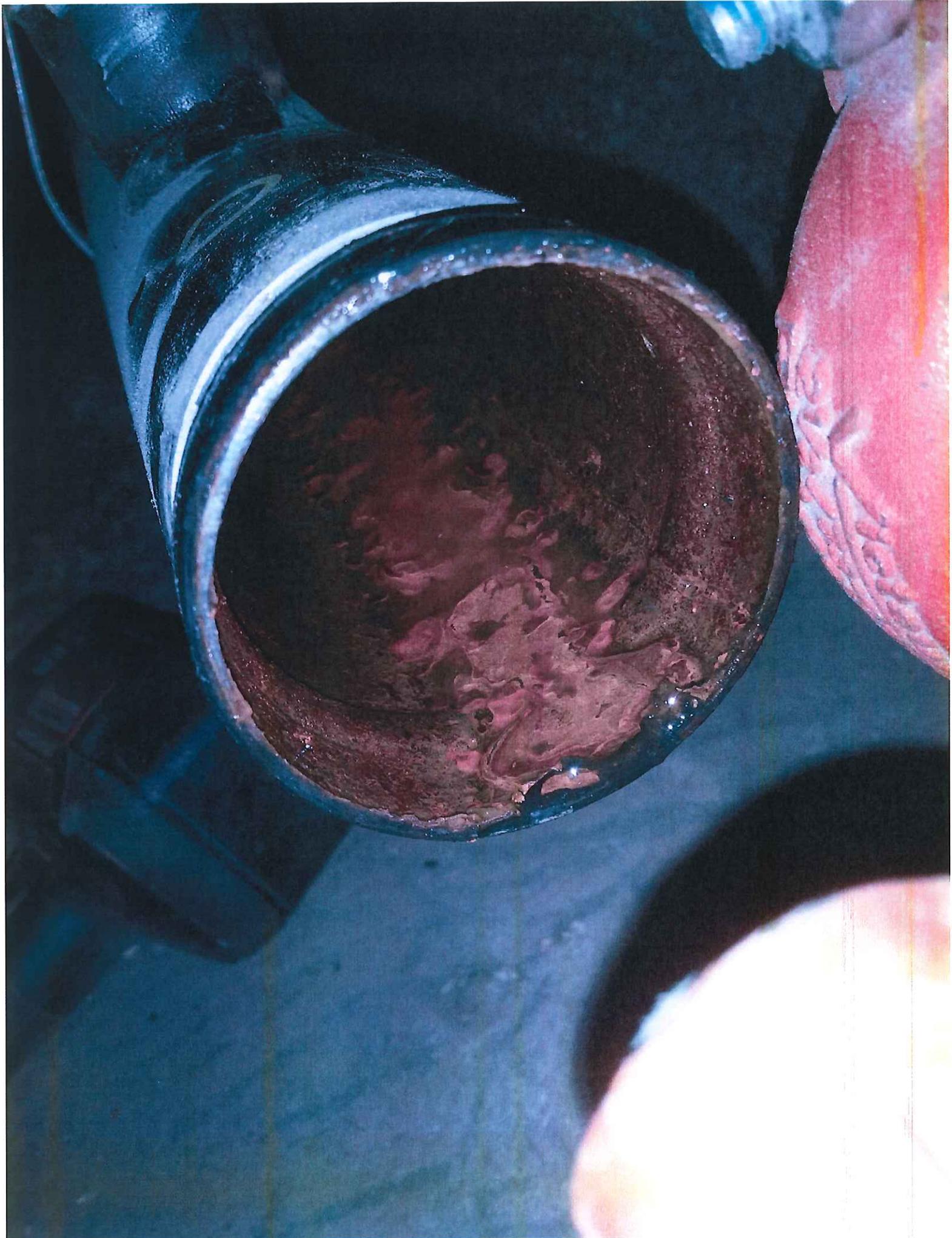


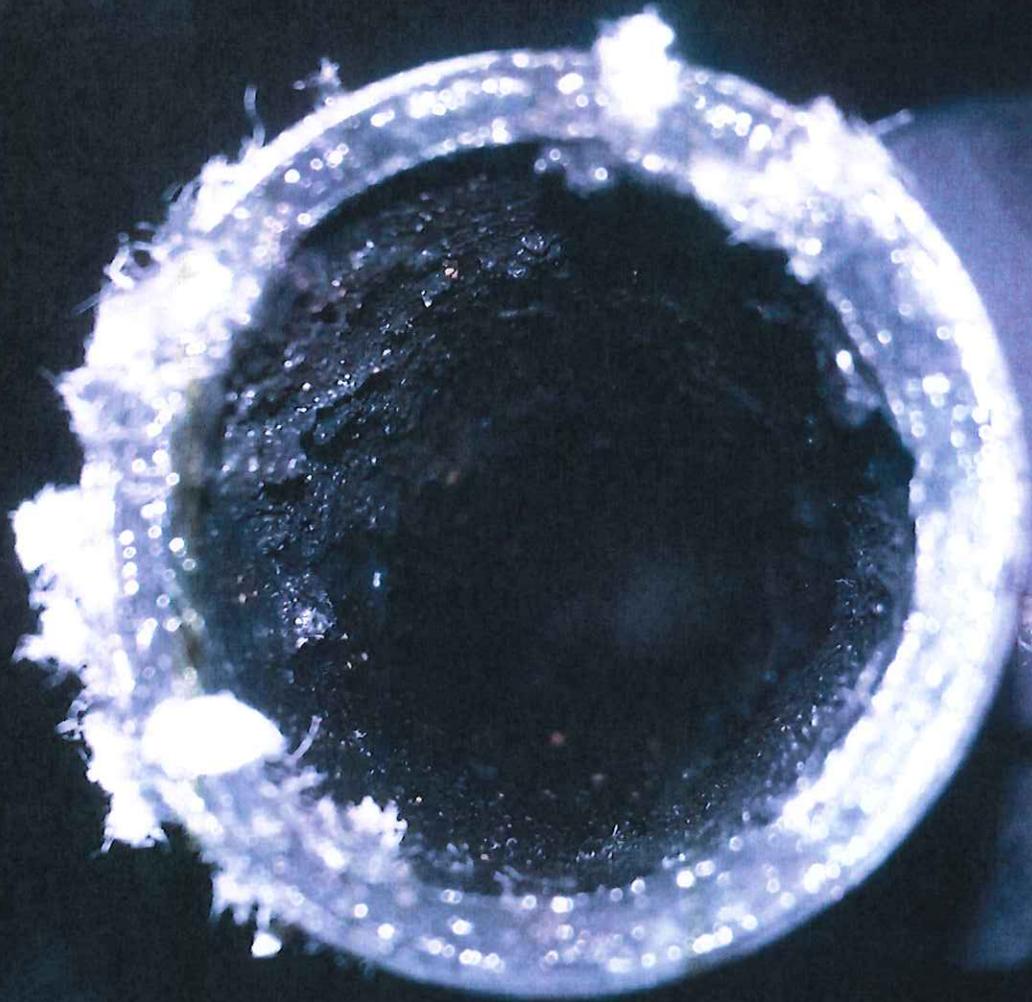


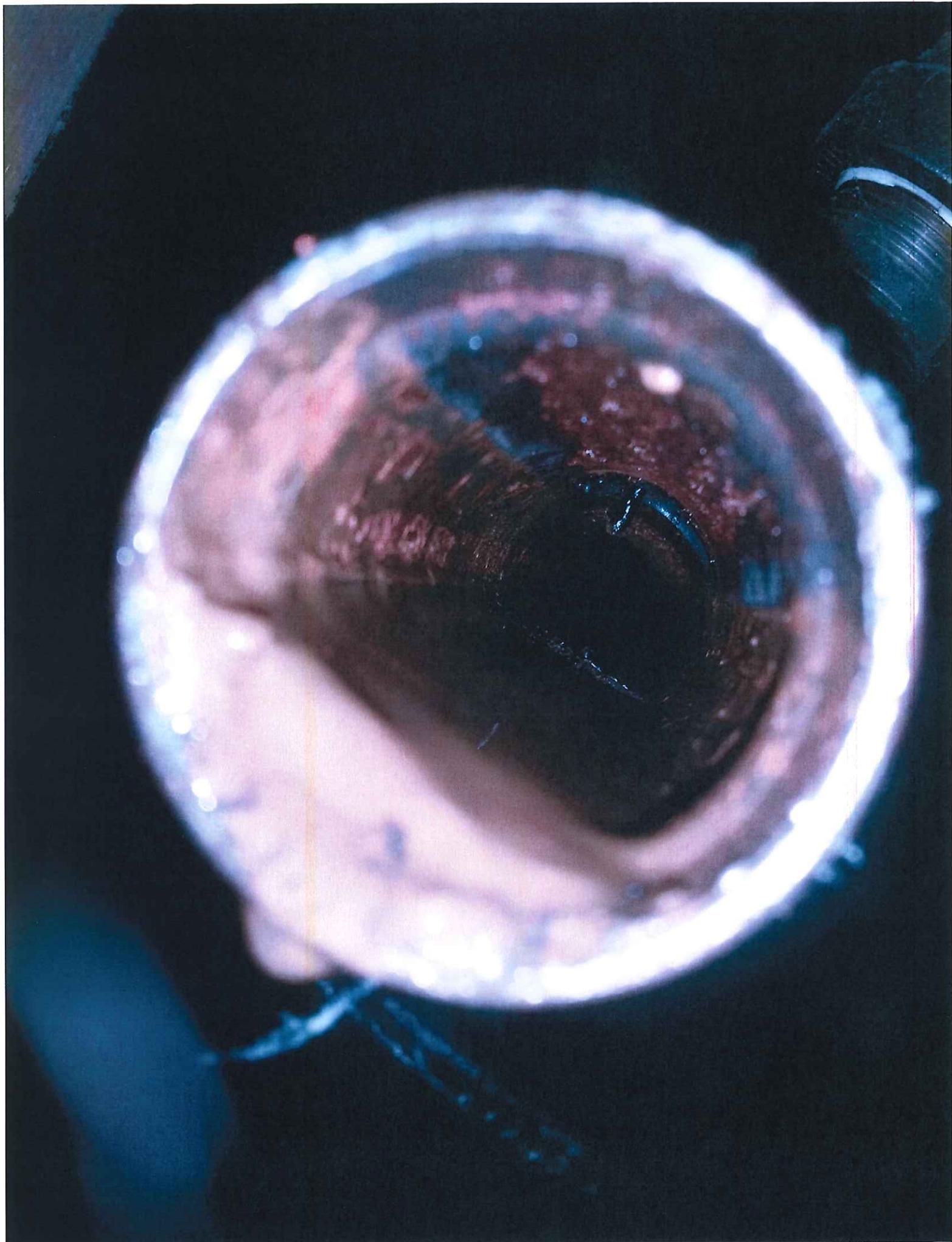










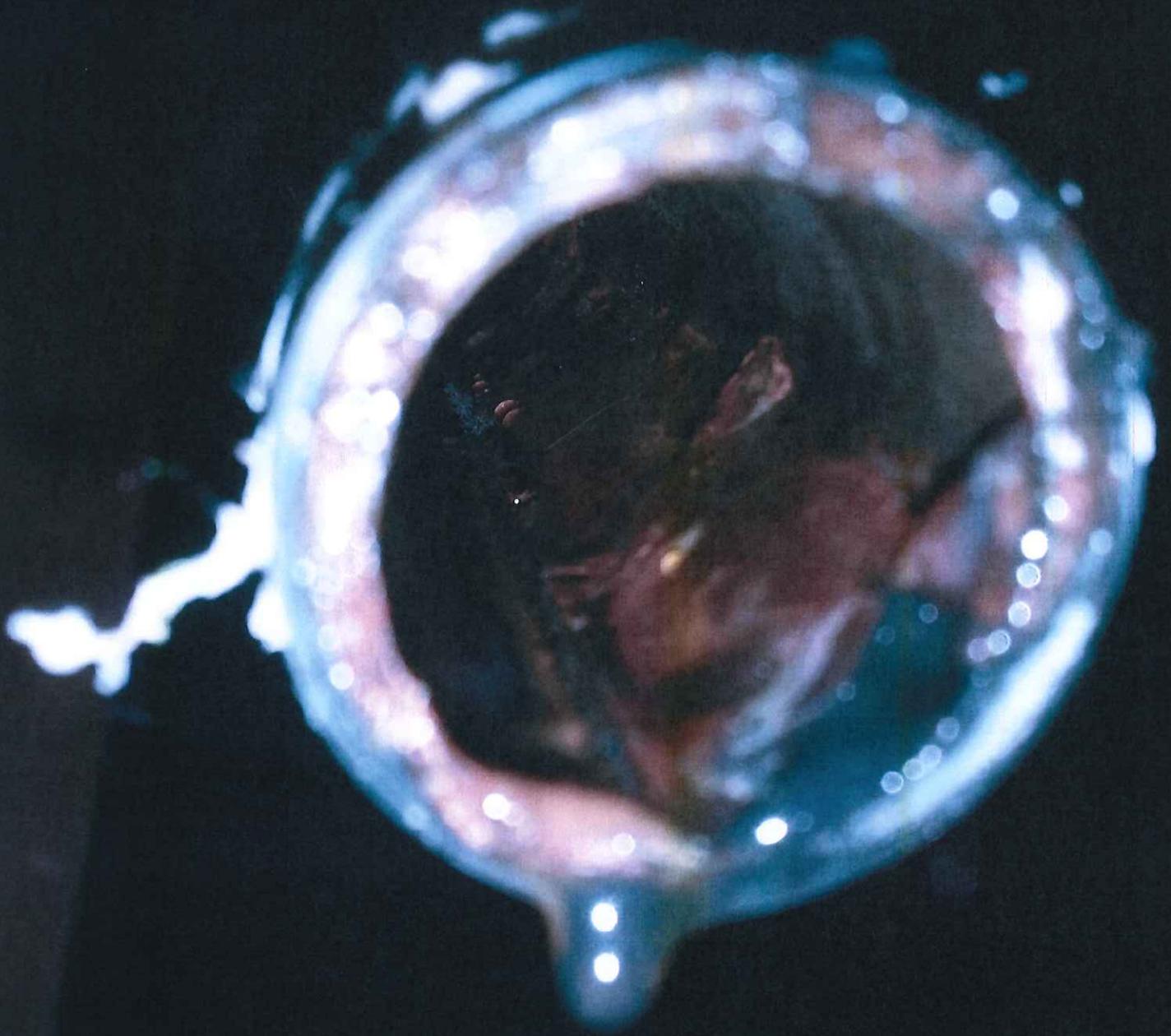


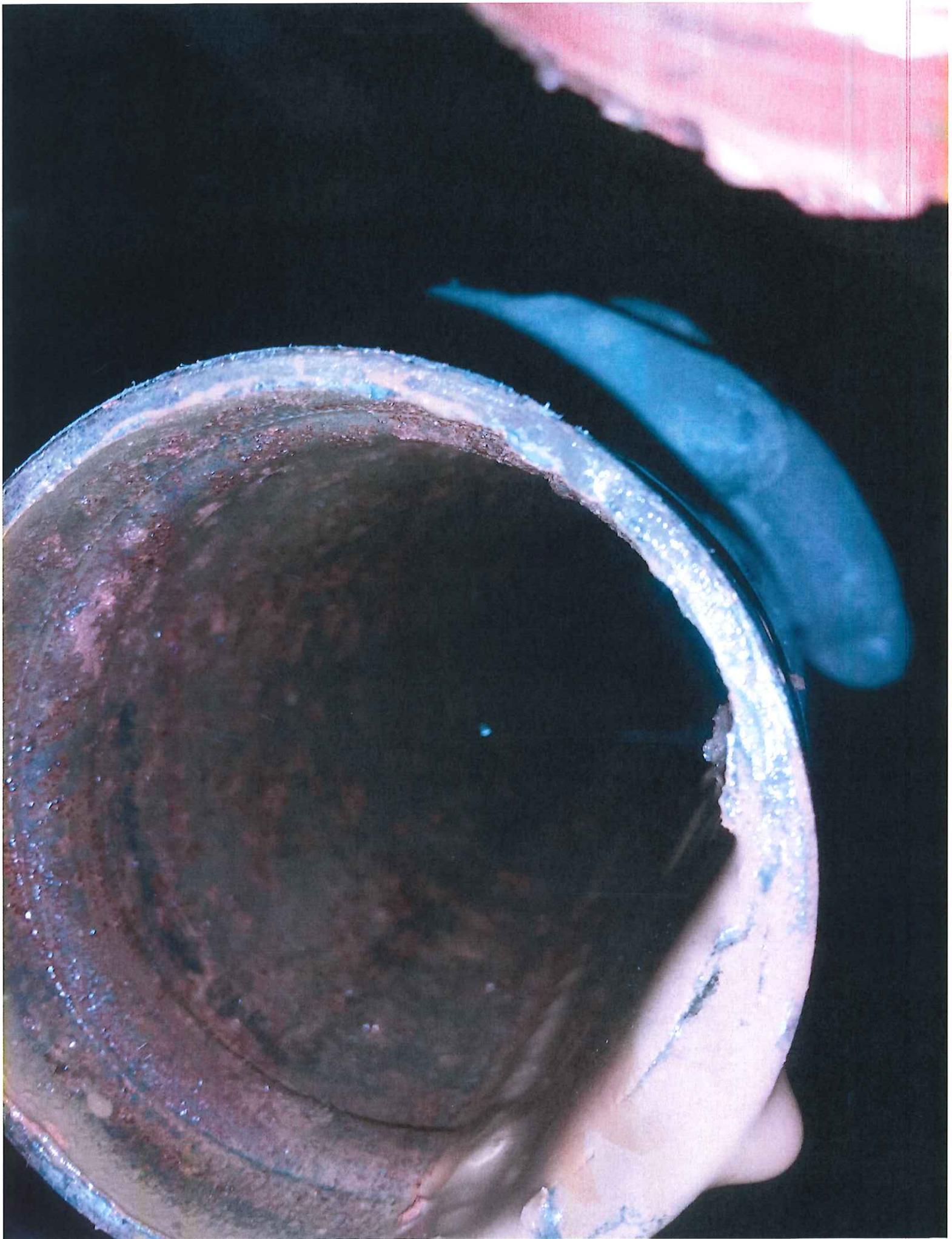


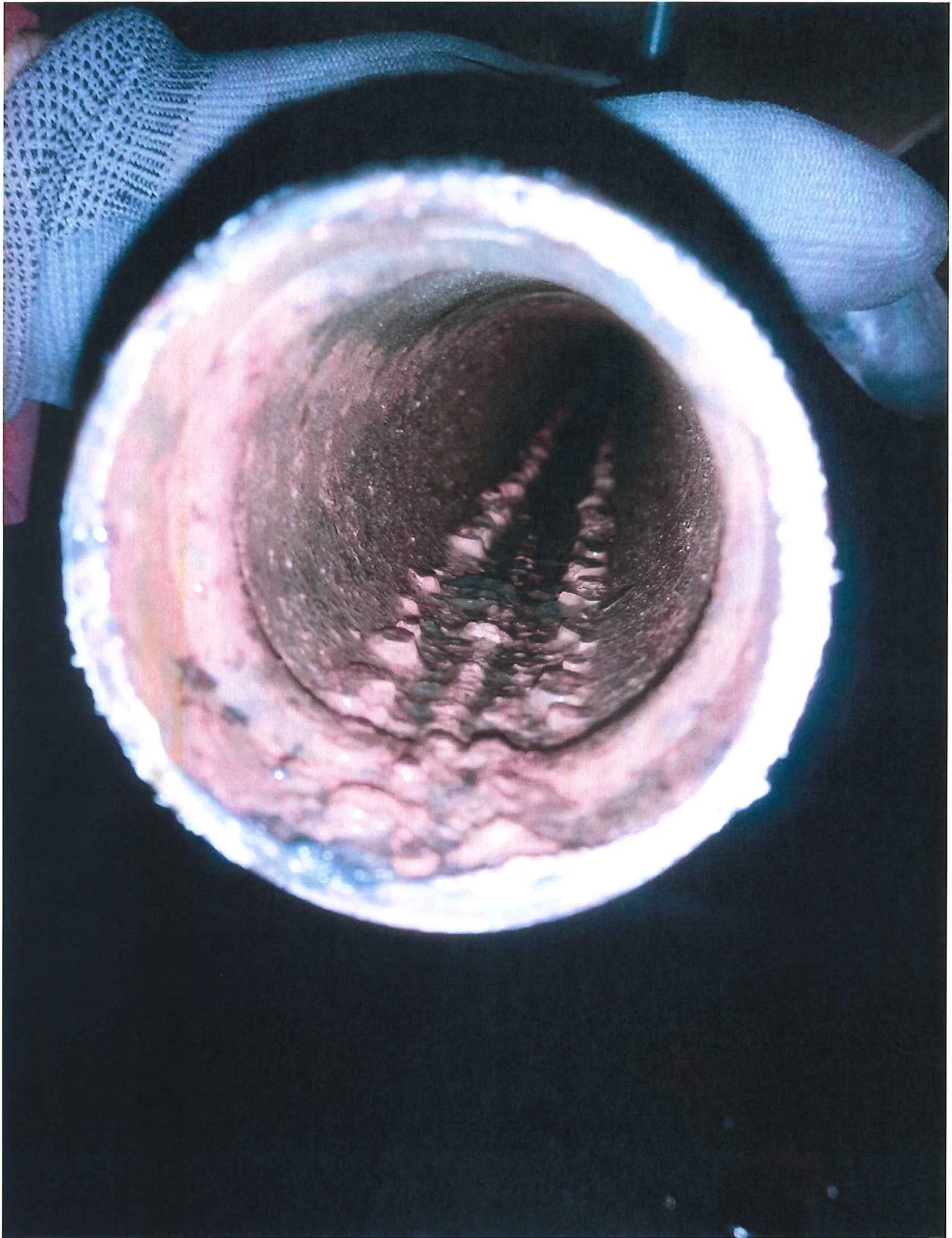














## Applicability

The Project or Program to which the construction work covered by this contract pertains is being assisted by the United States of America and the following Federal Labor Standards Provisions are included in this Contract pursuant to the provisions applicable to such Federal assistance.

**A. 1. (i) Minimum Wages.** All laborers and mechanics employed or working upon the site of the work, will be paid unconditionally and not less often than once a week, and without subsequent deduction or rebate on any account (except such payroll deductions as are permitted by regulations issued by the Secretary of Labor under the Copeland Act (29 CFR Part 3), the full amount of wages and bona fide fringe benefits (or cash equivalents thereof) due at time of payment computed at rates not less than those contained in the wage determination of the Secretary of Labor which is attached hereto and made a part hereof, regardless of any contractual relationship which may be alleged to exist between the contractor and such laborers and mechanics. Contributions made or costs reasonably anticipated for bona fide fringe benefits under Section I(b)(2) of the Davis-Bacon Act on behalf of laborers or mechanics are considered wages paid to such laborers or mechanics, subject to the provisions of 29 CFR 5.5(a)(1)(iv); also, regular contributions made or costs incurred for more than a weekly period (but not less often than quarterly) under plans, funds, or programs, which cover the particular weekly period, are deemed to be constructively made or incurred during such weekly period. Such laborers and mechanics shall be paid the appropriate wage rate and fringe benefits on the wage determination for the classification of work actually performed, without regard to skill, except as provided in 29 CFR 5.5(a)(4). Laborers or mechanics performing work in more than one classification may be compensated at the rate specified for each classification for the time actually worked therein: Provided, That the employer's payroll records accurately set forth the time spent in each classification in which work is performed. The wage determination (including any additional classification and wage rates conformed under 29 CFR 5.5(a)(1)(ii) and the Davis-Bacon poster (WH-1321) shall be posted at all times by the contractor and its subcontractors at the site of the work in a prominent and accessible, place where it can be easily seen by the workers.

**(ii) (a)** Any class of laborers or mechanics which is not listed in the wage determination and which is to be employed under the contract shall be classified in conformance with the wage determination. HUD shall approve an additional classification and wage rate and fringe benefits therefor only when the following criteria have been met:

**(1)** The work to be performed by the classification requested is not performed by a classification in the wage determination; and

**(2)** The classification is utilized in the area by the construction industry; and

**(3)** The proposed wage rate, including any bona fide fringe benefits, bears a reasonable relationship to the wage rates contained in the wage determination.

**(b)** If the contractor and the laborers and mechanics to be employed in the classification (if known), or their representatives, and HUD or its designee agree on the classification and wage rate (including the amount designated for fringe benefits where appropriate), a report of the action taken shall be sent by HUD or its designee to the Administrator of the Wage and Hour Division, Employment Standards Administration, U.S. Department of Labor, Washington, D.C. 20210. The Administrator, or an authorized representative, will approve, modify, or disapprove every additional classification action within 30 days of receipt and so advise HUD or its designee or will notify HUD or its designee within the 30-day period that additional time is necessary. (Approved by the Office of Management and Budget under OMB control number 1215-0140.)

**(c)** In the event the contractor, the laborers or mechanics to be employed in the classification or their representatives, and HUD or its designee do not agree on the proposed classification and wage rate (including the amount designated for fringe benefits, where appropriate), HUD or its designee shall refer the questions, including the views of all interested parties and the recommendation of HUD or its designee, to the Administrator for determination. The Administrator, or an authorized representative, will issue a determination within 30 days of receipt and so advise HUD or its designee or will notify HUD or its designee within the 30-day period that additional time is necessary. (Approved by the Office of Management and Budget under OMB Control Number 1215-0140.)

**(d)** The wage rate (including fringe benefits where appropriate) determined pursuant to subparagraphs (1)(ii)(b) or (c) of this paragraph, shall be paid to all workers performing work in the classification under this contract from the first day on which work is performed in the classification.

**(iii)** Whenever the minimum wage rate prescribed in the contract for a class of laborers or mechanics includes a fringe benefit which is not expressed as an hourly rate, the contractor shall either pay the benefit as stated in the wage determination or shall pay another bona fide fringe benefit or an hourly cash equivalent thereof.

**(iv)** If the contractor does not make payments to a trustee or other third person, the contractor may consider as part

of the wages of any laborer or mechanic the amount of any costs reasonably anticipated in providing bona fide fringe benefits under a plan or program, Provided, That the Secretary of Labor has found, upon the written request of the contractor, that the applicable standards of the Davis-Bacon Act have been met. The Secretary of Labor may require the contractor to set aside in a separate account assets for the meeting of obligations under the plan or program. (Approved by the Office of Management and Budget under OMB Control Number 1215-0140.)

**2. Withholding.** HUD or its designee shall upon its own action or upon written request of an authorized representative of the Department of Labor withhold or cause to be withheld from the contractor under this contract or any other Federal contract with the same prime contractor, or any other Federally-assisted contract subject to Davis-Bacon prevailing wage requirements, which is held by the same prime contractor so much of the accrued payments or advances as may be considered necessary to pay laborers and mechanics, including apprentices, trainees and helpers, employed by the contractor or any subcontractor the full amount of wages required by the contract. In the event of failure to pay any laborer or mechanic, including any apprentice, trainee or helper, employed or working on the site of the work, all or part of the wages required by the contract, HUD or its designee may, after written notice to the contractor, sponsor, applicant, or owner, take such action as may be necessary to cause the suspension of any further payment, advance, or guarantee of funds until such violations have ceased. HUD or its designee may, after written notice to the contractor, disburse such amounts withheld for and on account of the contractor or subcontractor to the respective employees to whom they are due. The Comptroller General shall make such disbursements in the case of direct Davis-Bacon Act contracts.

**3. (i) Payrolls and basic records.** Payrolls and basic records relating thereto shall be maintained by the contractor during the course of the work preserved for a period of three years thereafter for all laborers and mechanics working at the site of the work. Such records shall contain the name, address, and social security number of each such worker, his or her correct classification, hourly rates of wages paid (including rates of contributions or costs anticipated for bona fide fringe benefits or cash equivalents thereof of the types described in Section 1(b)(2)(B) of the Davis-bacon Act), daily and weekly number of hours worked, deductions made and actual wages paid. Whenever the Secretary of Labor has found under 29 CFR 5.5 (a)(1)(iv) that the wages of any laborer or mechanic include the amount of any costs reasonably anticipated in providing benefits under a plan or program described in Section 1(b)(2)(B) of the Davis-Bacon Act, the contractor shall maintain records which show that the commitment to provide such benefits is enforceable, that the plan or program is financially responsible, and that the plan or program has been

communicated in writing to the laborers or mechanics affected, and records which show the costs anticipated or the actual cost incurred in providing such benefits. Contractors employing apprentices or trainees under approved programs shall maintain written evidence of the registration of apprenticeship programs and certification of trainee programs, the registration of the apprentices and trainees, and the ratios and wage rates prescribed in the applicable programs. (Approved by the Office of Management and Budget under OMB Control Numbers 1215-0140 and 1215-0017.)

**(ii) (a)** The contractor shall submit weekly for each week in which any contract work is performed a copy of all payrolls to HUD or its designee if the agency is a party to the contract, but if the agency is not such a party, the contractor will submit the payrolls to the applicant sponsor, or owner, as the case may be, for transmission to HUD or its designee. The payrolls submitted shall set out accurately and completely all of the information required to be maintained under 29 CFR 5.5(a)(3)(i) except that full social security numbers and home addresses shall not be included on weekly transmittals. Instead the payrolls shall only need to include an individually identifying number for each employee (e.g., the last four digits of the employee's social security number). The required weekly payroll information may be submitted in any form desired. Optional Form WH-347 is available for this purpose from the Wage and Hour Division Web site at <http://www.dol.gov/esa/whd/forms/wh347instr.htm> or its successor site. The prime contractor is responsible for the submission of copies of payrolls by all subcontractors. Contractors and subcontractors shall maintain the full social security number and current address of each covered worker, and shall provide them upon request to HUD or its designee if the agency is a party to the contract, but if the agency is not such a party, the contractor will submit the payrolls to the applicant sponsor, or owner, as the case may be, for transmission to HUD or its designee, the contractor, or the Wage and Hour Division of the Department of Labor for purposes of an investigation or audit of compliance with prevailing wage requirements. It is not a violation of this subparagraph for a prime contractor to require a subcontractor to provide addresses and social security numbers to the prime contractor for its own records, without weekly submission to HUD or its designee. (Approved by the Office of Management and Budget under OMB Control Number 1215-0149.)

**(b)** Each payroll submitted shall be accompanied by a "Statement of Compliance," signed by the contractor or subcontractor or his or her agent who pays or supervises the payment of the persons employed under the contract and shall certify the following:

**(1)** That the payroll for the payroll period contains the information required to be provided under 29 CFR 5.5 (a)(3)(ii), the appropriate information is being maintained under 29 CFR 5.5(a)(3)(i), and that such information is correct and complete;

(2) That each laborer or mechanic (including each helper, apprentice, and trainee) employed on the contract during the payroll period has been paid the full weekly wages earned, without rebate, either directly or indirectly, and that no deductions have been made either directly or indirectly from the full wages earned, other than permissible deductions as set forth in 29 CFR Part 3;

(3) That each laborer or mechanic has been paid not less than the applicable wage rates and fringe benefits or cash equivalents for the classification of work performed, as specified in the applicable wage determination incorporated into the contract.

(c) The weekly submission of a properly executed certification set forth on the reverse side of Optional Form WH-347 shall satisfy the requirement for submission of the "Statement of Compliance" required by subparagraph A.3.(ii)(b).

(d) The falsification of any of the above certifications may subject the contractor or subcontractor to civil or criminal prosecution under Section 1001 of Title 18 and Section 231 of Title 31 of the United States Code.

(iii) The contractor or subcontractor shall make the records required under subparagraph A.3.(i) available for inspection, copying, or transcription by authorized representatives of HUD or its designee or the Department of Labor, and shall permit such representatives to interview employees during working hours on the job. If the contractor or subcontractor fails to submit the required records or to make them available, HUD or its designee may, after written notice to the contractor, sponsor, applicant or owner, take such action as may be necessary to cause the suspension of any further payment, advance, or guarantee of funds. Furthermore, failure to submit the required records upon request or to make such records available may be grounds for debarment action pursuant to 29 CFR 5.12.

#### 4. Apprentices and Trainees.

(i) **Apprentices.** Apprentices will be permitted to work at less than the predetermined rate for the work they performed when they are employed pursuant to and individually registered in a bona fide apprenticeship program registered with the U.S. Department of Labor, Employment and Training Administration, Office of Apprenticeship Training, Employer and Labor Services, or with a State Apprenticeship Agency recognized by the Office, or if a person is employed in his or her first 90 days of probationary employment as an apprentice in such an apprenticeship program, who is not individually registered in the program, but who has been certified by the Office of Apprenticeship Training, Employer and Labor Services or a State Apprenticeship Agency (where appropriate) to be eligible for probationary employment as an apprentice. The allowable ratio of apprentices to journeymen on the job site in any craft classification shall not be greater than the ratio permitted to the contractor as to the entire work force under the registered program. Any worker listed on a payroll at an apprentice wage rate, who

is not registered or otherwise employed as stated above, shall be paid not less than the applicable wage rate on the wage determination for the classification of work actually performed. In addition, any apprentice performing work on the job site in excess of the ratio permitted under the registered program shall be paid not less than the applicable wage rate on the wage determination for the work actually performed. Where a contractor is performing construction on a project in a locality other than that in which its program is registered, the ratios and wage rates (expressed in percentages of the journeyman's hourly rate) specified in the contractor's or subcontractor's registered program shall be observed. Every apprentice must be paid at not less than the rate specified in the registered program for the apprentice's level of progress, expressed as a percentage of the journeymen hourly rate specified in the applicable wage determination. Apprentices shall be paid fringe benefits in accordance with the provisions of the apprenticeship program. If the apprenticeship program does not specify fringe benefits, apprentices must be paid the full amount of fringe benefits listed on the wage determination for the applicable classification. If the Administrator determines that a different practice prevails for the applicable apprentice classification, fringes shall be paid in accordance with that determination. In the event the Office of Apprenticeship Training, Employer and Labor Services, or a State Apprenticeship Agency recognized by the Office, withdraws approval of an apprenticeship program, the contractor will no longer be permitted to utilize apprentices at less than the applicable predetermined rate for the work performed until an acceptable program is approved.

(ii) **Trainees.** Except as provided in 29 CFR 5.16, trainees will not be permitted to work at less than the predetermined rate for the work performed unless they are employed pursuant to and individually registered in a program which has received prior approval, evidenced by formal certification by the U.S. Department of Labor, Employment and Training Administration. The ratio of trainees to journeymen on the job site shall not be greater than permitted under the plan approved by the Employment and Training Administration. Every trainee must be paid at not less than the rate specified in the approved program for the trainee's level of progress, expressed as a percentage of the journeyman hourly rate specified in the applicable wage determination. Trainees shall be paid fringe benefits in accordance with the provisions of the trainee program. If the trainee program does not mention fringe benefits, trainees shall be paid the full amount of fringe benefits listed on the wage determination unless the Administrator of the Wage and Hour Division determines that there is an apprenticeship program associated with the corresponding journeyman wage rate on the wage determination which provides for less than full fringe benefits for apprentices. Any employee listed on the payroll at a trainee rate who is not registered and participating in a training plan approved by

the Employment and Training Administration shall be paid not less than the applicable wage rate on the wage determination for the work actually performed. In addition, any trainee performing work on the job site in excess of the ratio permitted under the registered program shall be paid not less than the applicable wage rate on the wage determination for the work actually performed. In the event the Employment and Training Administration withdraws approval of a training program, the contractor will no longer be permitted to utilize trainees at less than the applicable predetermined rate for the work performed until an acceptable program is approved.

**(iii) Equal employment opportunity.** The utilization of apprentices, trainees and journeymen under 29 CFR Part 5 shall be in conformity with the equal employment opportunity requirements of Executive Order 11246, as amended, and 29 CFR Part 30.

**5. Compliance with Copeland Act requirements.** The contractor shall comply with the requirements of 29 CFR Part 3 which are incorporated by reference in this contract

**6. Subcontracts.** The contractor or subcontractor will insert in any subcontracts the clauses contained in subparagraphs 1 through 11 in this paragraph A and such other clauses as HUD or its designee may by appropriate instructions require, and a copy of the applicable prevailing wage decision, and also a clause requiring the subcontractors to include these clauses in any lower tier subcontracts. The prime contractor shall be responsible for the compliance by any subcontractor or lower tier subcontractor with all the contract clauses in this paragraph.

**7. Contract termination; debarment.** A breach of the contract clauses in 29 CFR 5.5 may be grounds for termination of the contract and for debarment as a contractor and a subcontractor as provided in 29 CFR 5.12.

**8. Compliance with Davis-Bacon and Related Act Requirements.** All rulings and interpretations of the Davis-Bacon and Related Acts contained in 29 CFR Parts 1, 3, and 5 are herein incorporated by reference in this contract

**9. Disputes concerning labor standards.** Disputes arising out of the labor standards provisions of this contract shall not be subject to the general disputes clause of this contract. Such disputes shall be resolved in accordance with the procedures of the Department of Labor set forth in 29 CFR Parts 5, 6, and 7. Disputes within the meaning of this clause include disputes between the contractor (or any of its subcontractors) and HUD or its designee, the U.S. Department of Labor, or the employees or their representatives.

**10. (i) Certification of Eligibility.** By entering into this contract the contractor certifies that neither it (nor he or she) nor any person or firm who has an interest in the contractor's firm is a person or firm ineligible to be awarded Government contracts by virtue of Section 3(a) of the Davis-Bacon Act or 29 CFR 5.12(a)(1) or to be

awarded HUD contracts or participate in HUD programs pursuant to 24 CFR Part 24.

**(ii)** No part of this contract shall be subcontracted to any person or firm ineligible for award of a Government contract by virtue of Section 3(a) of the Davis-Bacon Act or 29 CFR 5.12(a)(1) or to be awarded HUD contracts or participate in HUD programs pursuant to 24 CFR Part 24.

**(iii)** The penalty for making false statements is prescribed in the U.S. Criminal Code, 18 U.S.C. 1001. Additionally, U.S. Criminal Code, Section 1 01 0, Title 18, U.S.C., "Federal Housing Administration transactions", provides in part: "Whoever, for the purpose of . . . influencing in any way the action of such Administration..... makes, utters or publishes any statement knowing the same to be false..... shall be fined not more than \$5,000 or imprisoned not more than two years, or both."

**11. Complaints, Proceedings, or Testimony by Employees.** No laborer or mechanic to whom the wage, salary, or other labor standards provisions of this Contract are applicable shall be discharged or in any other manner discriminated against by the Contractor or any subcontractor because such employee has filed any complaint or instituted or caused to be instituted any proceeding or has testified or is about to testify in any proceeding under or relating to the labor standards applicable under this Contract to his employer.

**B. Contract Work Hours and Safety Standards Act.** The provisions of this paragraph B are applicable where the amount of the prime contract exceeds \$100,000. As used in this paragraph, the terms "laborers" and "mechanics" include watchmen and guards.

**(1) Overtime requirements.** No contractor or subcontractor contracting for any part of the contract work which may require or involve the employment of laborers or mechanics shall require or permit any such laborer or mechanic in any workweek in which the individual is employed on such work to work in excess of 40 hours in such workweek unless such laborer or mechanic receives compensation at a rate not less than one and one-half times the basic rate of pay for all hours worked in excess of 40 hours in such workweek.

**(2) Violation; liability for unpaid wages; liquidated damages.** In the event of any violation of the clause set forth in subparagraph (1) of this paragraph, the contractor and any subcontractor responsible therefor shall be liable for the unpaid wages. In addition, such contractor and subcontractor shall be liable to the United States (in the case of work done under contract for the District of Columbia or a territory, to such District or to such territory), for liquidated damages. Such liquidated damages shall be computed with respect to each individual laborer or mechanic, including watchmen and guards, employed in violation of the clause set forth in subparagraph (1) of this paragraph, in the sum of \$10 for each calendar day on which such individual was required or permitted to work in excess of the standard workweek of 40 hours without payment of the overtime wages required by the clause set forth in subparagraph (1) of this paragraph.

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**(3) Withholding for unpaid wages and liquidated damages.** HUD or its designee shall upon its own action or upon written request of an authorized representative of the Department of Labor withhold or cause to be withheld, from any moneys payable on account of work performed by the contractor or subcontractor under any such contract or any other Federal contract with the same prime contract, or any other Federally-assisted contract subject to the Contract Work Hours and Safety Standards Act which is held by the same prime contractor such sums as may be determined to be necessary to satisfy any liabilities of such contractor or subcontractor for unpaid wages and liquidated damages as provided in the clause set forth in subparagraph (2) of this paragraph.

**(4) Subcontracts.** The contractor or subcontractor shall insert in any subcontracts the clauses set forth in subparagraph (1) through (4) of this paragraph and also a clause requiring the subcontractors to include these clauses in any lower tier subcontracts. The prime contractor shall be responsible for compliance by any subcontractor or lower tier subcontractor with the clauses set forth in subparagraphs (1) through (4) of this paragraph.

**C. Health and Safety.** The provisions of this paragraph C are applicable where the amount of the prime contract exceeds \$100,000.

**(1)** No laborer or mechanic shall be required to work in surroundings or under working conditions which are unsanitary, hazardous, or dangerous to his health and safety as determined under construction safety and health standards promulgated by the Secretary of Labor by regulation.

**(2)** The Contractor shall comply with all regulations issued by the Secretary of Labor pursuant to Title 29 Part 1926 and failure to comply may result in imposition of sanctions pursuant to the Contract Work Hours and Safety Standards Act, (Public Law 91-54, 83 Stat 96). 40 USC 3701 et seq.

**(3)** The contractor shall include the provisions of this paragraph in every subcontract so that such provisions will be binding on each subcontractor. The contractor shall take such action with respect to any subcontractor as the Secretary of Housing and Urban Development or the Secretary of Labor shall direct as a means of enforcing such provisions.