EPA NPDES Compliance Inspection Report

Section A: National Data System Coding

Transaction Code	NPDES	yr/mo/day	Inspection Type	Inspector	Fac Type
1 N 2 5 3	N M 0 0 2 2 2 6 8	1 2 1 0 1 1 17	18 C	19 R	20 1

21 S I C 4 9 5 2 66

Inspection Work Days	Facility Evaluation Rating	BI	QA	Reserved
67 69	70 1	71 N	72 N	73 74 75 80

Section B: Facility Data

Name and Location of Facility Inspected	Entry Time/Date	Permit Effective Date
City of Artesia Wastewater Treatment Plant 1702 Haldeman Road Artesia, NM 88211	11:30 AM / October 11, 2012	June 1, 2007
	Exit Time/Date 1:40 PM / October 11, 2012	**Permit Expiration Date** April 30, 2012

Name of On-Site Representatives from Bosque Farms	Title(s)	Phone Number(s)
Frank Trujillo	Wastewater Maintenance Foreman	(575) 748-0262
Names of On-Site Representatives from Inspection Team	**Title(s)**	**Phone Number(s)**
Daniel Valenta	NMED Inspector	(505) 827-2575
Robert Houston	Enforcement Officer	(214) 665-8565

Name, Address of Responsible Official	Title	
Mr. Phillip Burch 1408 Washington Ave. Artesia, NM 88210	Mayor	
	Phone Number (575) 746-2300	Contacted: YES ____ NO √

Section C: Areas Evaluated During Inspection

(S = Satisfactory, M = Marginal, U = Unsatisfactory, N = Not Evaluated)

U	Permit	U	Flow Measurement	N	Storm Water	N	CSO/SSO (Sewer Overflow)
S	Records/Reports	M	Self-Monitoring Program	S	Sludge Handling/Disposal	N	Pollution Prevention
U	Facility Site Review	N	Compliance Schedules	N	Pretreatment	N	Multimedia
S	Effluent/Receiving Waters	S	Laboratory	U	Operations & Maintenance		Other:

Section D: Summary of Findings/Comments (Attach additional sheets if necessary)

1. The Inspector arrived at the facility at 11:30 AM on October 11, 2012. The Inspector presented Federal Credentials, and explained the purpose of the Compliance Evaluation Inspection during the Entrance Interview with Mr. Trujillo.
2. The Inspector gave preliminary findings during the Exit Interview with Mr. Trujillo at approximately 1:23 PM – 1:40 PM on October 11, 2012.
3. Please see the report for further details.

Name and Signature of Inspector	Agency/Office/Telephone	Date
Robert Houston	USEPA / 6EN-WM / (214) 665-8565	January 24, 2013
Signature of Reviewer	**Agency/Office/Telephone**	**Date**
Anthony M. Loston	USEPA / 6EN-WM / (214) 665-3109	January 24, 2013

Introduction
On October 11, 2012, an unannounced Compliance Evaluation Inspection (CEI) was conducted by the Environmental Protection Agency (EPA) and the New Mexico Environment Department at the City of Artesia wastewater treatment facility (WWTF). The CEI was to determine NPDES permit compliance for NM0022268.

Upon arrival at the WWTF at approximately 11:30 AM on October 11, 2012, the Inspector conducted an entrance interview with Mr. Frank Trujillo, Wastewater Maintenance Foreman, where he presented credentials and explained the purpose of the inspection. Mr. Trujillo conducted a tour of the facility.

The WWTF is located at 1702 Haldeman Road, New Mexico. The WWTF has a 1.3 MGD design flow and serves a population of less than 11,000. Flow discharges from the WWTF into the Pecos River, in Segment No. 20.6.4.206 of the Pecos River Basin.

Areas of Concern
During the inspection, the Inspector noticed the following:

- The WWTF Staff failed to repair the spray nozzle.
  (See photos 1 and 2 of 22)

- Solids were located in the Ultraviolet Disinfection System tank.
  (See photos 3 and 4 of 22)

- Two ultraviolet bulbs failed in Module 1.
  (See photos 5, 6, and 11 of 22)

- One ultraviolet bulb failed in Module 2.
  (See photos 7, 8, and 11 of 22)

- Module 3 was off-line.
  (See photos 9, 10, and 11 of 22)

- The bottom of the pipe is 3 inches higher than the Parshall Flume. The flow backs up into the flume.
  (See photos 12 and 13 of 22)

- Staff failed to clean residue from the belt press and the belt press/truck transfer station. Residue was located on the floor and ground.
  (See photos 14 – 19 of 22)

On September 27, 2012, an exit interview was conducted with Mr. Trujillo at the facility at approximately 1:23 PM – 1:40 PM. The areas of concern listed above were discussed.

PERMIT NO. NM0022268

SECTION A - PERMIT VERIFICATION

PERMIT SATISFACTORILY ADDRESSES OBSERVATIONS S M UX NA (FURTHER EXPLANATION ATTACHED NO)

DETAILS: ***During the inspection, the Inspector noted that the Permit expired April 30, 2012.***

1. CORRECT NAME AND MAILING ADDRESS OF PERMITTEE	Y N NA X
2. NOTIFICATION GIVEN TO EPA/STATE OF NEW DIFFERENT OR INCREASED DISCHARGES	Y N NA X
3. NUMBER AND LOCATION OF DISCHARGE POINTS AS DESCRIBED IN PERMIT	Y N NA X
4. ALL DISCHARGES ARE PERMITTED	Y N NA X

SECTION B - RECORDKEEPING AND REPORTING EVALUATION

RECORDS AND REPORTS MAINTAINED AS REQUIRED BY PERMIT. SX M U NA (FURTHER EXPLANATION ATTACHED NO)

DETAILS:

1. ANALYTICAL RESULTS CONSISTENT WITH DATA REPORTED ON DMRs	Y X N NA
2. SAMPLING AND ANALYSES DATA ADEQUATE AND INCLUDE	Y X N NA
a) DATES, TIME(S) AND LOCATION(S) OF SAMPLING	Y X N NA
b) NAME OF INDIVIDUAL PERFORMING SAMPLING	Y X N NA
c) ANALYTICAL METHODS AND TECHNIQUES	Y X N NA
d) RESULTS OF ANALYSES AND CALIBRATIONS	Y X N NA
e) DATES AND TIMES OF ANALYSES	Y X N NA
f) NAME OF PERSON(S) PERFORMING ANALYSES	Y X N NA
3. LABORATORY EQUIPMENT CALIBRATION AND MAINTENANCE RECORDS ADEQUATE	S X M NA
4. PLANT RECORDS INCLUDE SCHEDULES, DATES OF EQUIPMENT MAINTENANCE AND REPAIR	S X M NA
5. EFFLUENT LOADINGS CALCULATED USING DAILY EFFLUENT FLOW AND DAILY ANALYTICAL DATA	Y X N NA

SECTION C - OPERATIONS AND MAINTENANCE

TREATMENT FACILITY PROPERLY OPERATED AND MAINTAINED. S M UX NA (FURTHER EXPLANATION ATTACHED YES)

DETAILS: ***During the inspection, the Inspector noted that the WWTF Staff failed to repair the spray nozzle, failed to prevent solids from entering the ultraviolet disinfection system tank, failed to replace ultraviolet bulbs, failed to install a Parshall Flume properly, and failed to clean residue around the belt press/truck transfer station.***

1. TREATMENT UNITS PROPERLY OPERATED	S M U X NA
2. TREATMENT UNITS PROPERLY MAINTAINED	S M U X NA
3. STANDBY POWER OR OTHER EQUIVALENT PROVIDED	S X M U NA
4. ADEQUATE ALARM SYSTEM FOR POWER OR EQUIPMENT FAILURES AVAILABLE	S X M U NA
5. ALL NEEDED TREATMENT UNITS IN SERVICE	S X M U NA
6. ADEQUATE NUMBER OF QUALIFIED OPERATORS PROVIDED	S X M U NA
7. SPARE PARTS AND SUPPLIES INVENTORY MAINTAINED	S X M U NA
8. OPERATION AND MAINTENANCE MANUAL AVAILABLE	Y X N NA
STANDARD OPERATING PROCEDURES AND SCHEDULES ESTABLISHED	Y X N NA
PROCEDURES FOR EMERGENCY TREATMENT CONTROL ESTABLISHED	YX N NA

PERMIT NO. NM0022268

SECTION C - OPERATIONS AND MAINTENANCE (CONT'D)

9. HAVE BYPASSES/OVERFLOWS OCCURRED AT THE PLANT OR IN THE COLLECTION SYSTEM IN THE LAST YEAR?	Y N NA X
IF SO, HAS THE REGULATORY AGENCY BEEN NOTIFIED?	Y N NA
HAS CORRECTIVE ACTION BEEN TAKEN TO PREVENT ADDITIONAL BYPASSES/OVERFLOWS?	Y N NA
10.HAVE ANY HYDRAULIC OVERLOADS OCCURRED AT THE TREATMENT PLANT?	Y N NA X
IF SO, DID PERMIT VIOLATIONS OCCUR AS A RESULT?	Y N NA

SECTION D – SAMPLING

PERMITTEE SAMPLING MEETS PERMIT REQUIREMENTS. SX M U NA (FURTHER EXPLANATION ATTACHED NO)

DETAILS:

1. SAMPLES TAKEN AT SITE(S) SPECIFIED IN PERMIT	Y X N NA
2. LOCATIONS ADEQUATE FOR REPRESENTATIVE SAMPLES	Y X N NA
3. FLOW PROPORTIONED SAMPLES OBTAINED WHEN REQUIRED BY PERMIT	Y X N NA
4. SAMPLING AND ANALYSES COMPLETED ON PARAMETERS SPECIFIED IN PERMIT	Y X N NA
5. SAMPLING AND ANALYSES PERFORMED AT FREQUENCY SPECIFIED IN PERMIT	Y X N NA
6. SAMPLE COLLECTION PROCEDURES ADEQUATE	Y X N NA
a) SAMPLES REFRIGERATED DURING COMPOSITING	Y X N NA
b) PROPER PRESERVATION TECHNIQUES USED	Y X N NA
c) CONTAINERS AND SAMPLE HOLDING TIMES CONFORM TO 40 CFR 136	Y X N NA
7. IF MONITORING AND ANALYSES ARE PERFORMED MORE OFTEN THAN REQUIRED BY PERMIT, ARE THE RESULTS REPORTED IN PERMITTEE'S SELF-MONITORING REPORT?	Y N NA X

SECTION E - FLOW MEASUREMENT

PERMITTEE FLOW MEASUREMENT MEETS PERMIT REQUIREMENTS. S M UX NA (FURTHER EXPLANATION ATTACHED YES)

DETAILS: ***During the inspection, the Inspector noted that the bottom of the pipe is 3 inches higher than the Parshall Flume. The flow back up into the flume.***

1. PRIMARY FLOW MEASUREMENT DEVICE PROPERLY INSTALLED AND MAINTAINED TYPE OF DEVICE ***9-in Parshall Flume***	Y N X NA
2. FLOW MEASURED AT EACH OUTFALL AS REQUIRED	Y X N NA
3. SECONDARY INSTRUMENTS (TOTALIZERS, RECORDERS, ETC.) PROPERLY OPERATED AND MAINTAINED	Y X N NA
4. CALIBRATION FREQUENCY ADEQUATE. (DATE OF LAST CALIBRATION ***March 5, 2012***	Y X N NA
RECORDS MAINTAINED OF CALIBRATION PROCEDURES	Y N NA X
CALIBRATION CHECKS DONE TO ASSURE CONTINUED COMPLIANCE	Y N NA X
5. FLOW ENTERING DEVICE WELL DISTRIBUTED ACROSS THE CHANNEL AND FREE OF TURBULENCE	Y N X NA
6. HEAD MEASURED AT PROPER LOCATION	Y N X NA
7. FLOW MEASUREMENT EQUIPMENT ADEQUATE TO HANDLE EXPECTED RANGE OF FLOW RATES	Y N X NA

SECTION F – LABORATORY

PERMITTEE LABORATORY PROCEDURES MEETS PERMIT REQUIREMENTS. SX M U NA (FURTHER EXPLANATION ATTACHED NO)

DETAILS:

1. EPA APPROVED ANALYTICAL PROCEDURES USED (40 CFR 136.3 FOR LIQUIDS, 503.8(b) FOR SLUDGES)	Y X N NA

PERMIT NO. NM0022268

SECTION F - LABORATORY (CONT'D)

2. IF ALTERNATIVE ANALYTICAL PROCEDURES ARE USED, PROPER APPROVAL HAS BEEN OBTAINED — Y N NA X

3. SATISFACTORY CALIBRATION AND MAINTENANCE OF INSTRUMENTS AND EQUIPMENT — S X M U NA

4. QUALITY CONTROL PROCEDURES ADEQUATE — S X M U NA

5. DUPLICATE SAMPLES ARE ANALYZED >10 % OF THE TIME — Y N NA X

6. SPIKED SAMPLES ARE ANALYZED >10 % OF THE TIME — Y N NA X

7. COMMERCIAL LABORATORY USED — Y X N NA

LAB NAME *Cardinal Laboratories*
LAB ADDRESS *101 E. Marland Blvd Hobbs, NM 88240*
PARAMETERS PERFORMED *Whole Effluent Toxicity*

SECTION G - EFFLUENT/RECEIVING WATERS OBSERVATIONS. S X M U NA (FURTHER EXPLANATION ATTACHED NO)

Based on visual observations only.

OUTFALL NO.	OIL SHEEN	GREASE	TURBIDITY	VISIBLE FOAM	FLOAT SOL.	COLOR	OTHER
001	None	None	None	None	None	None	

Comments:

SECTION H - SLUDGE DISPOSAL

SLUDGE DISPOSAL MEETS PERMIT REQUIREMENTS. S X M U NA (FURTHER EXPLANATION ATTACHED NO)

DETAILS:

1. SLUDGE MANAGEMENT ADEQUATE TO MAINTAIN EFFLUENT QUALITY. — S X M U NA

2. SLUDGE RECORDS MAINTAINED AS REQUIRED BY 40 CFR 503. — S X M U NA

3. FOR LAND APPLIED SLUDGE, TYPE OF LAND APPLIED TO: _____ (e.g., FOREST, AGRICULTURAL, PUBLIC CONTACT SITE)

SECTION I - SAMPLING INSPECTION PROCEDURES (FURTHER EXPLANATION ATTACHED NO)

1. SAMPLES OBTAINED THIS INSPECTION. — Y N NA X

2. TYPE OF SAMPLE OBTAINED

GRAB _____ COMPOSITE SAMPLE _____ METHOD _____ FREQUENCY

3. SAMPLES PRESERVED. — Y N NA

4. FLOW PROPORTIONED SAMPLES OBTAINED. — Y N NA

5. SAMPLE OBTAINED FROM FACILITY'S SAMPLING DEVICE. — Y N NA

6. SAMPLE REPRESENTATIVE OF VOLUME AND NATURE OF DISCHARGE. — Y N NA

7. SAMPLE SPLIT WITH PERMITTEE — Y N NA

8. CHAIN-OF-CUSTODY PROCEDURES EMPLOYED — Y N NA

9. SAMPLES COLLECTED IN ACCORDANCE WITH PERMIT — Y N NA

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

Region 6
1445 Ross Avenue, Suite 1200
Dallas, Texas 75202-2733

Official Photograph Log

Photographer: Robert Houston **Date:** October 11, 2012 **Time:** 12:06 PM

Location: 1702 Haldeman Road **City/County:** Artesia **State:** New Mexico

Weather: 71.6 °F **Conditions:** Clear

Subject: Staff failed to repair the spray nozzle.

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Region 6
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Official Photograph Log

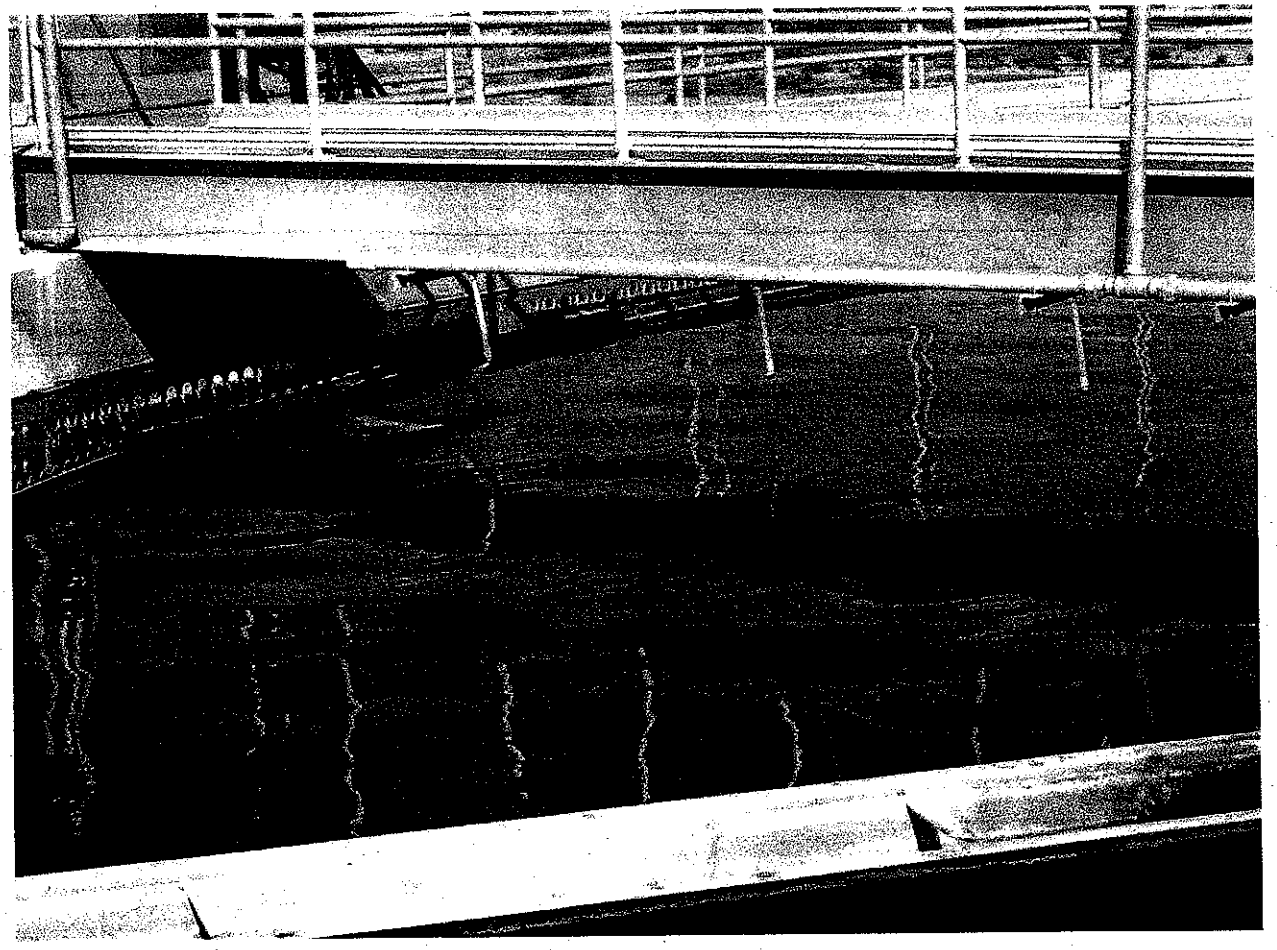
Photo: 2 of 22

Photographer: Robert Houston **Date:** October 11, 2012 **Time:** 12:09 PM

Location: 1702 Haldeman Road **City/County:** Artesia **State:** New Mexico

Weather: 71.6 °F **Conditions:** Clear

Subject: Staff failed to repair the spray nozzle (Photo 2 is a different angle than Photo 1).



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Region 6
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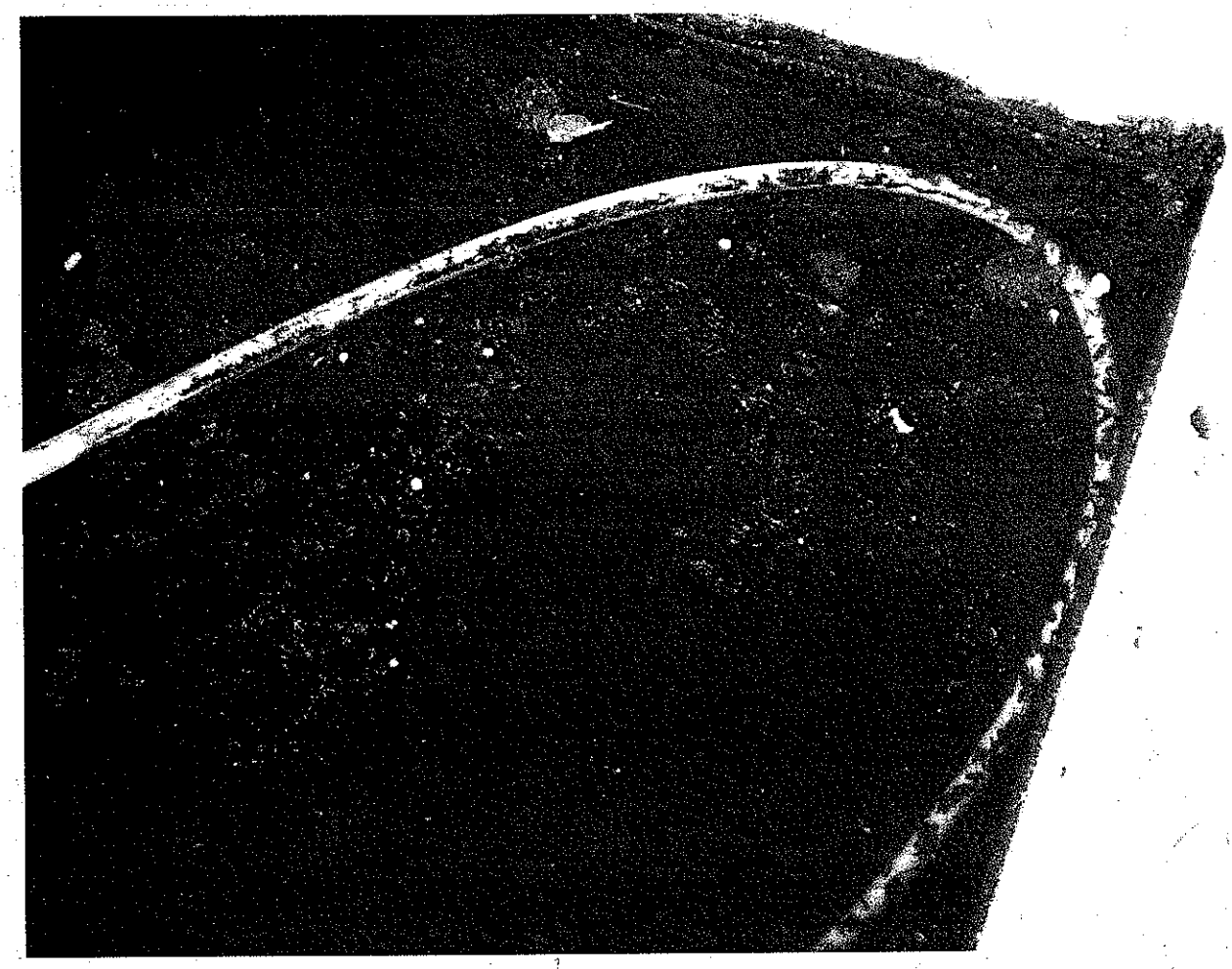
Official Photograph Log
Photo: 3 of 22

Photographer: Robert Houston **Date:** October 11, 2012 **Time:** 12:17 PM

Location: 1702 Haldeman Road **City/County:** Artesia **State:** New Mexico

Weather: 71.6 °F **Conditions:** Clear

Subject: Solids located in the Ultraviolet Disinfection System tank.



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Official Photograph Log

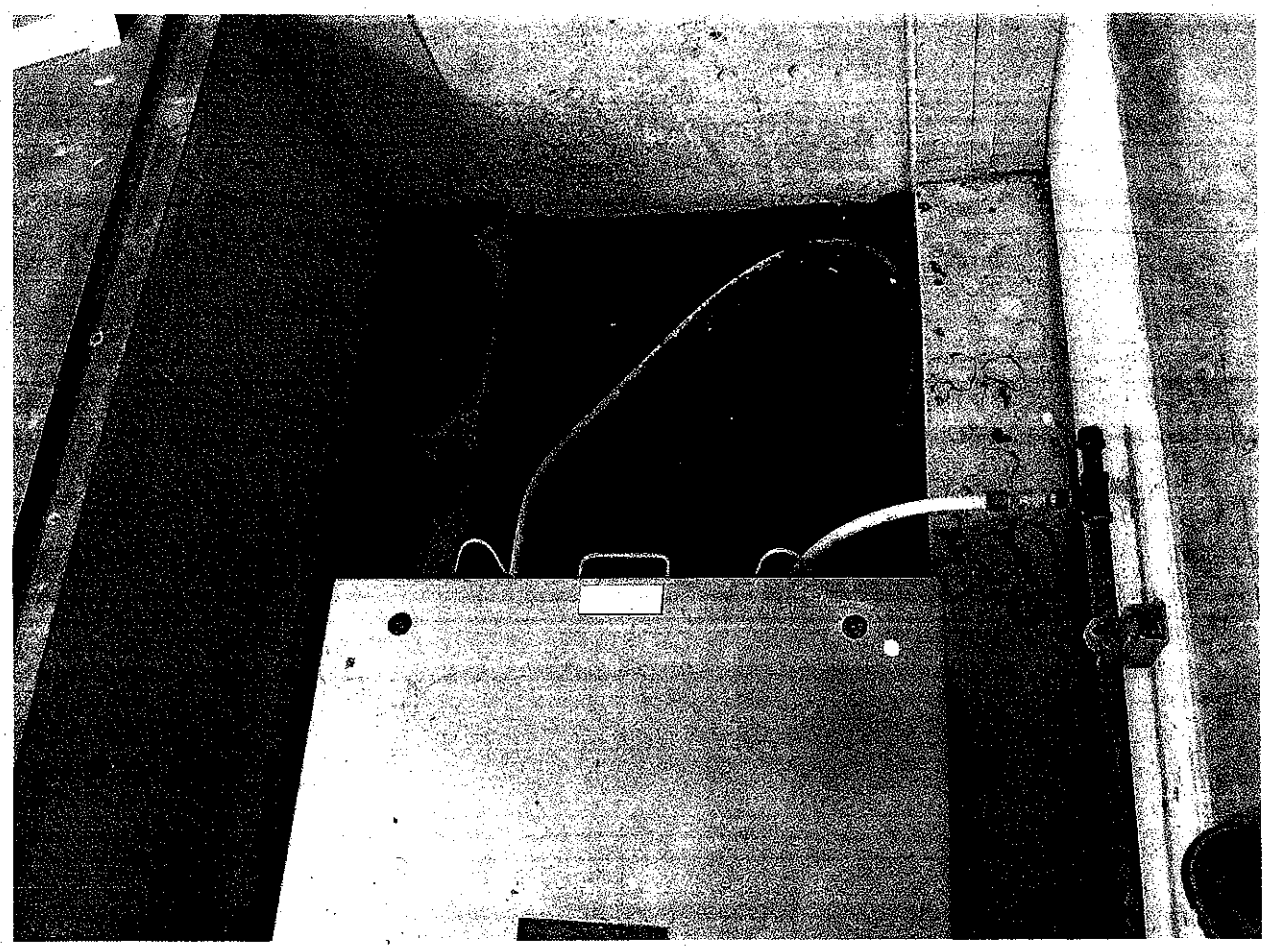
Photo: 4 of 22

Photographer: Robert Houston **Date:** October 11, 2012 **Time:** 12:18 PM

Location: 1702 Haldeman Road **City/County:** Artesia **State:** New Mexico

Weather: 71.6 °F **Conditions:** Clear

Subject: Solids located in the Ultraviolet Disinfection System tank.



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Official Photograph Log

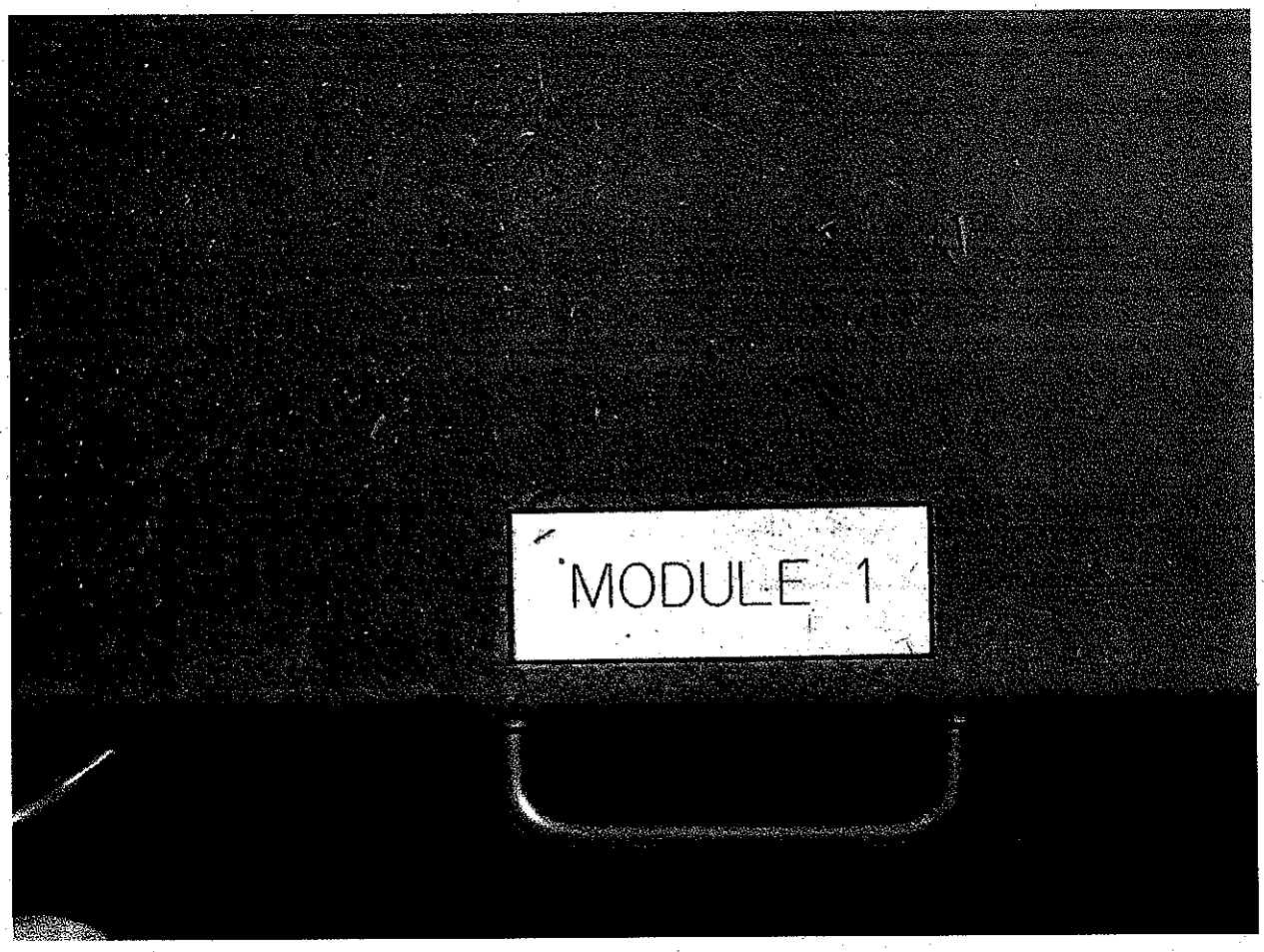
Photo: 5 of 22

Photographer: Robert Houston **Date:** October 11, 2012 **Time:** 12:19 PM

Location: 1702 Haldeman Road **City/County:** Artesia **State:** New Mexico

Weather: 71.6 °F **Conditions:** Clear

Subject: Module 1 of the Ultraviolet Disinfection System.



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Official Photograph Log

Photo: 6 of 22

Photographer: Robert Houston **Date:** October 11, 2012 **Time:** 12:19 PM

Location: 1702 Haldeman Road **City/County:** Artesia **State:** New Mexico

Weather: 71.6 °F **Conditions:** Clear

Subject: Two ultraviolet bulbs failed in Module 1.

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Official Photograph Log

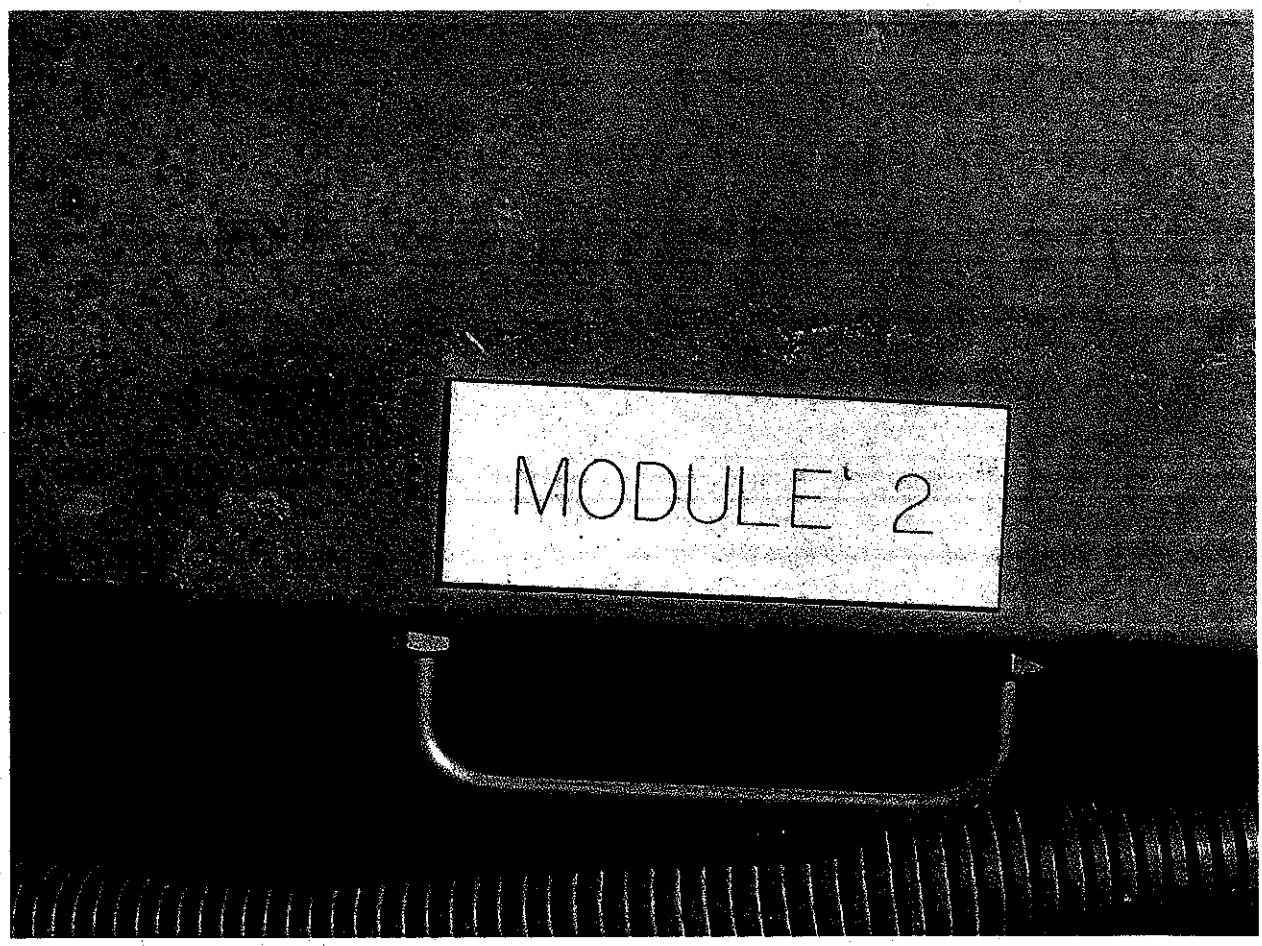
Photo: 7 of 22

Photographer: Robert Houston **Date:** October 11, 2012 **Time:** 12:19 PM

Location: 1702 Haldeman Road **City/County:** Artesia **State:** New Mexico

Weather: 71.6 °F **Conditions:** Clear

Subject: Module 2 of the Ultraviolet Disinfection System.



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Region 6
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Official Photograph Log

Photographer: Robert Houston **Date:** October 11, 2012 **Time:** 12:20 PM

Location: 1702 Haldeman Road **City/County:** Artesia **State:** New Mexico

Weather: 71.6 °F **Conditions:** Clear

Subject: One ultraviolet bulb failed in Module 2.

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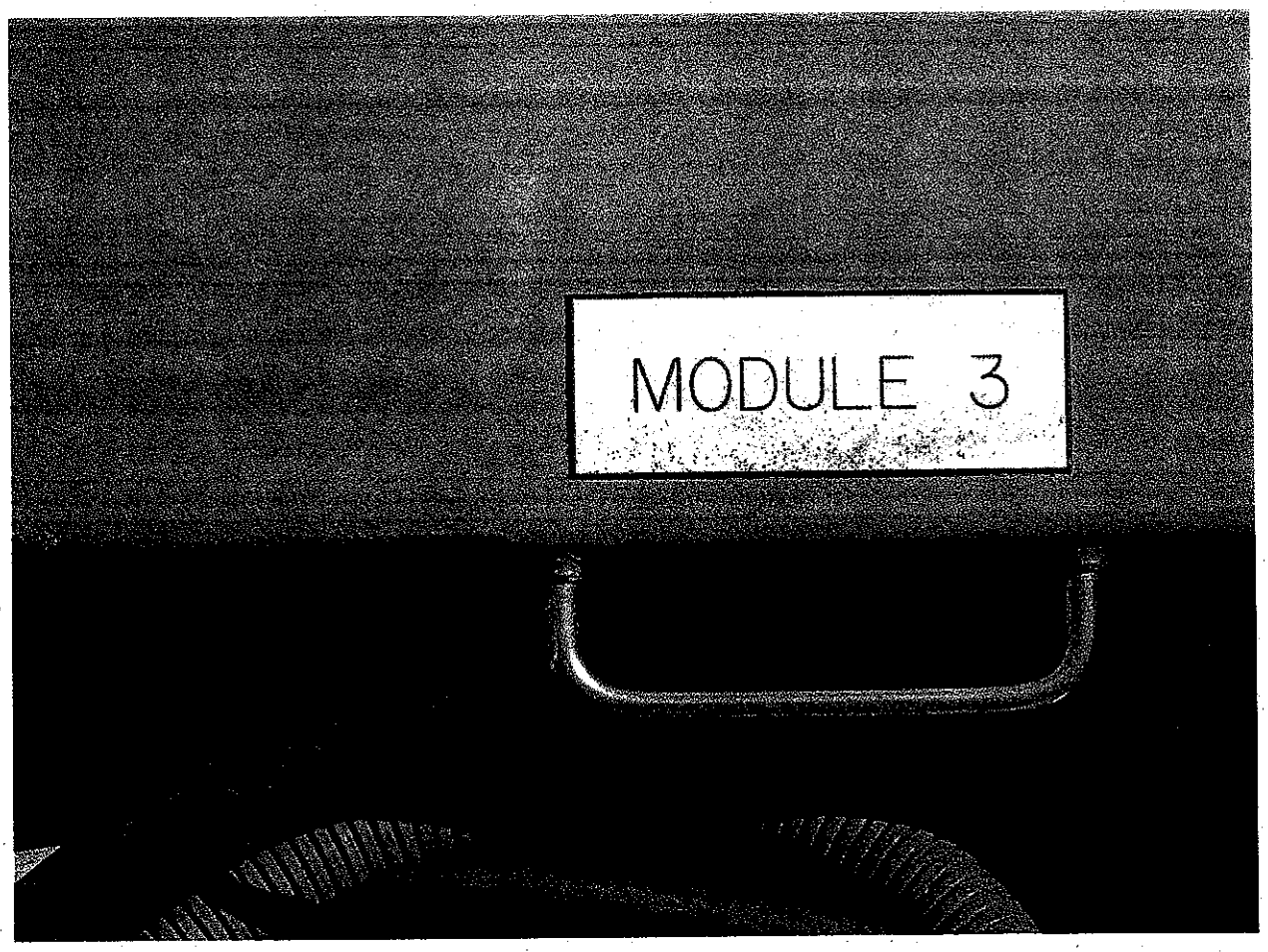
Official Photograph Log

Photographer: Robert Houston **Date:** October 11, 2012 **Time:** 12:20 PM

Location: 1702 Haldeman Road **City/County:** Artesia **State:** New Mexico

Weather: 71.6 °F **Conditions:** Clear

Subject: Module 3 of the Ultraviolet Disinfection System.



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Official Photograph Log

Photo: 10 of 22

Photographer: Robert Houston

Date: October 11, 2012

Time: 12:20 PM

Location: 1702 Haldeman Road

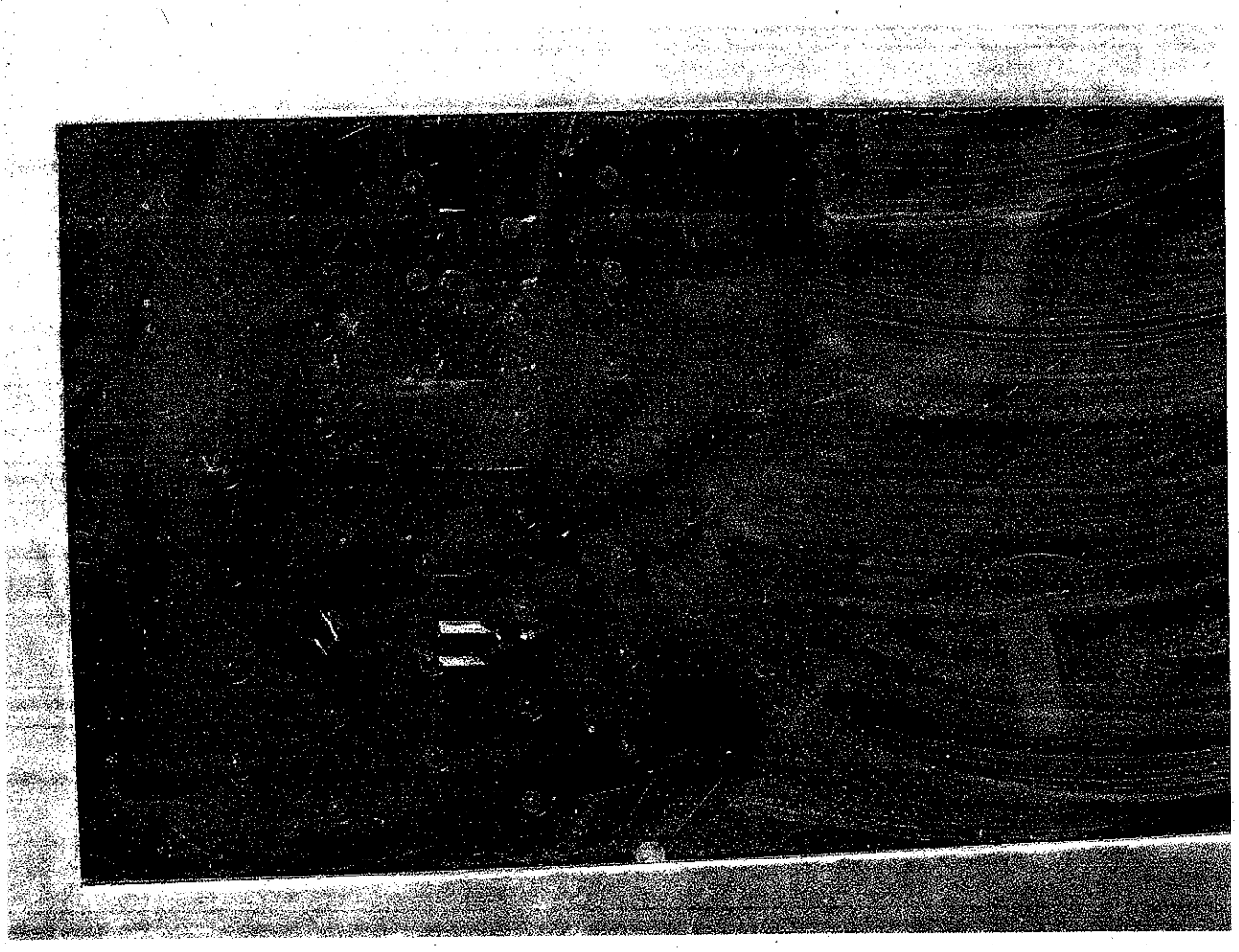
City/County: Artesia

State: New Mexico

Weather: 71.6 °F

Conditions: Clear

Subject: Module 3 was off-line.



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Region 6
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Official Photograph Log

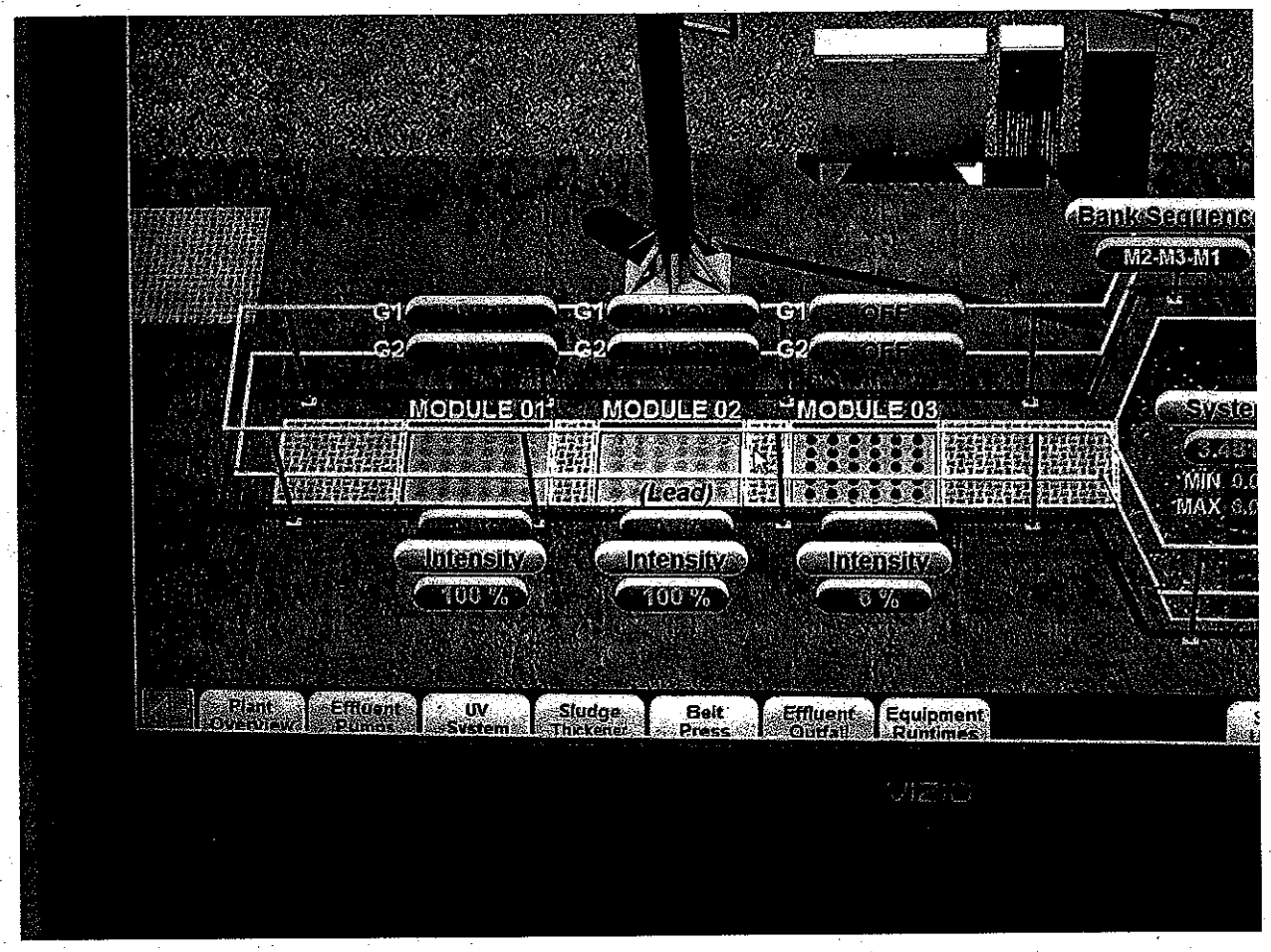
Photo: 11 of 22

Photographer: Robert Houston **Date:** October 11, 2012 **Time:** 1:38 PM

Location: 1702 Haldeman Road **City/County:** Artesia **State:** New Mexico

Weather: Indoor **Conditions:** Indoor

Subject: SCADA – Ultraviolet Disinfection System.
Modules 1 and 2 were on-line, Module 3 was off-line.



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Official Photograph Log

Photo: 12 of 21

Photographer: Robert Houston **Date:** October 11, 2012 **Time:** 12:26 PM

Location: 1702 Haldeman Road **City/County:** Artesia **State:** New Mexico

Weather: 71.6 °F **Conditions:** Clear

Subject: The bottom of the pipe is 3 inches higher than the Parshall Flume. The flow backs up into the flume. Staff mentioned they would begin design and reconstruction in November 2012.

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Region 6
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Dallas, Texas 75202-2733

Official Photograph Log

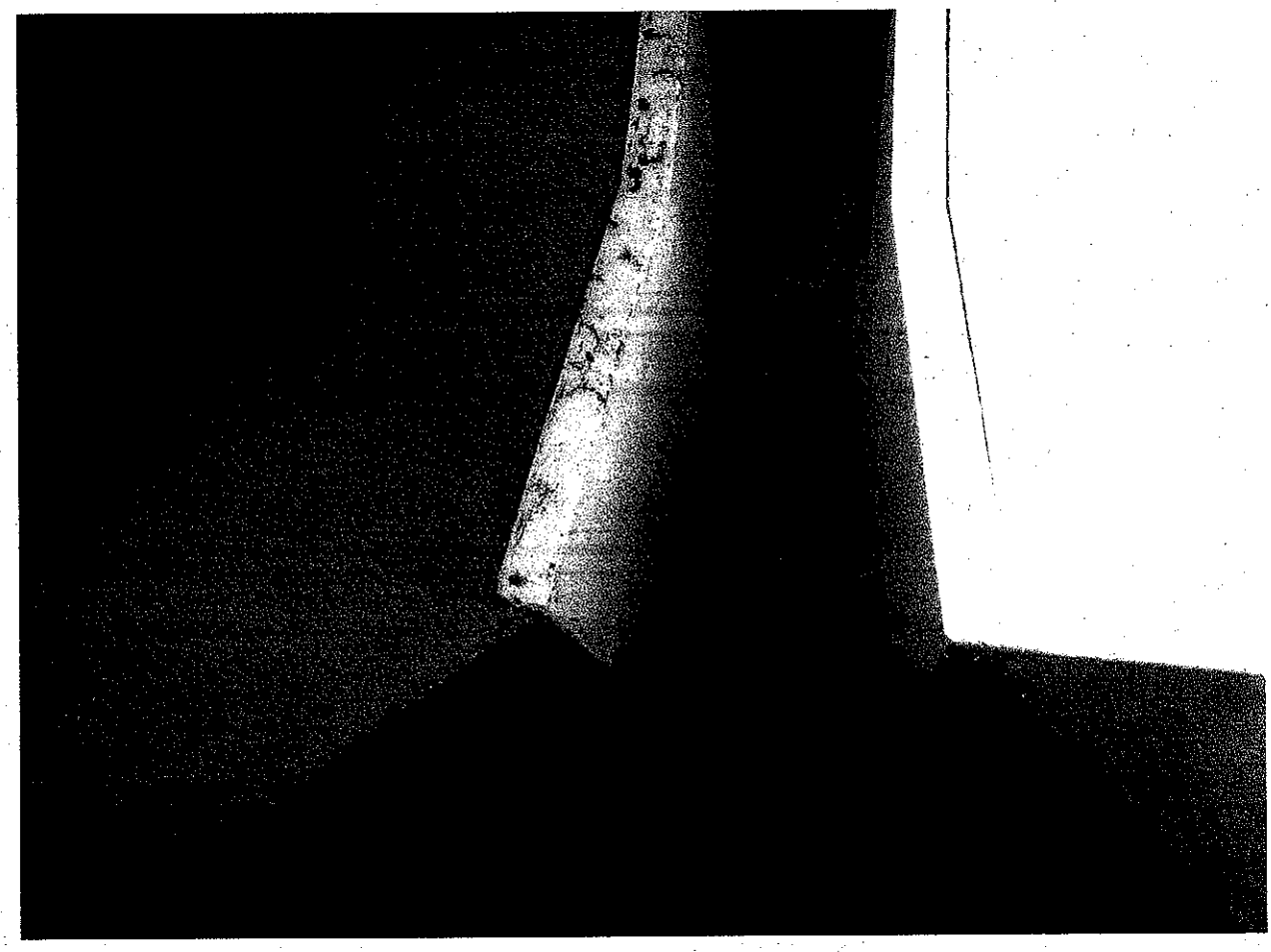
Photo: 13 of 22

Photographer: Robert Houston **Date:** October 11, 2012 **Time:** 12:27 PM

Location: 1702 Haldeman Road **City/County:** Artesia **State:** New Mexico

Weather: 71.6 °F **Conditions:** Clear

Subject: The bottom of the pipe is 3 inches higher than the Parshall Flume. The flow backs up into the flume. Staff mentioned they would begin design and reconstruction in November 2012.



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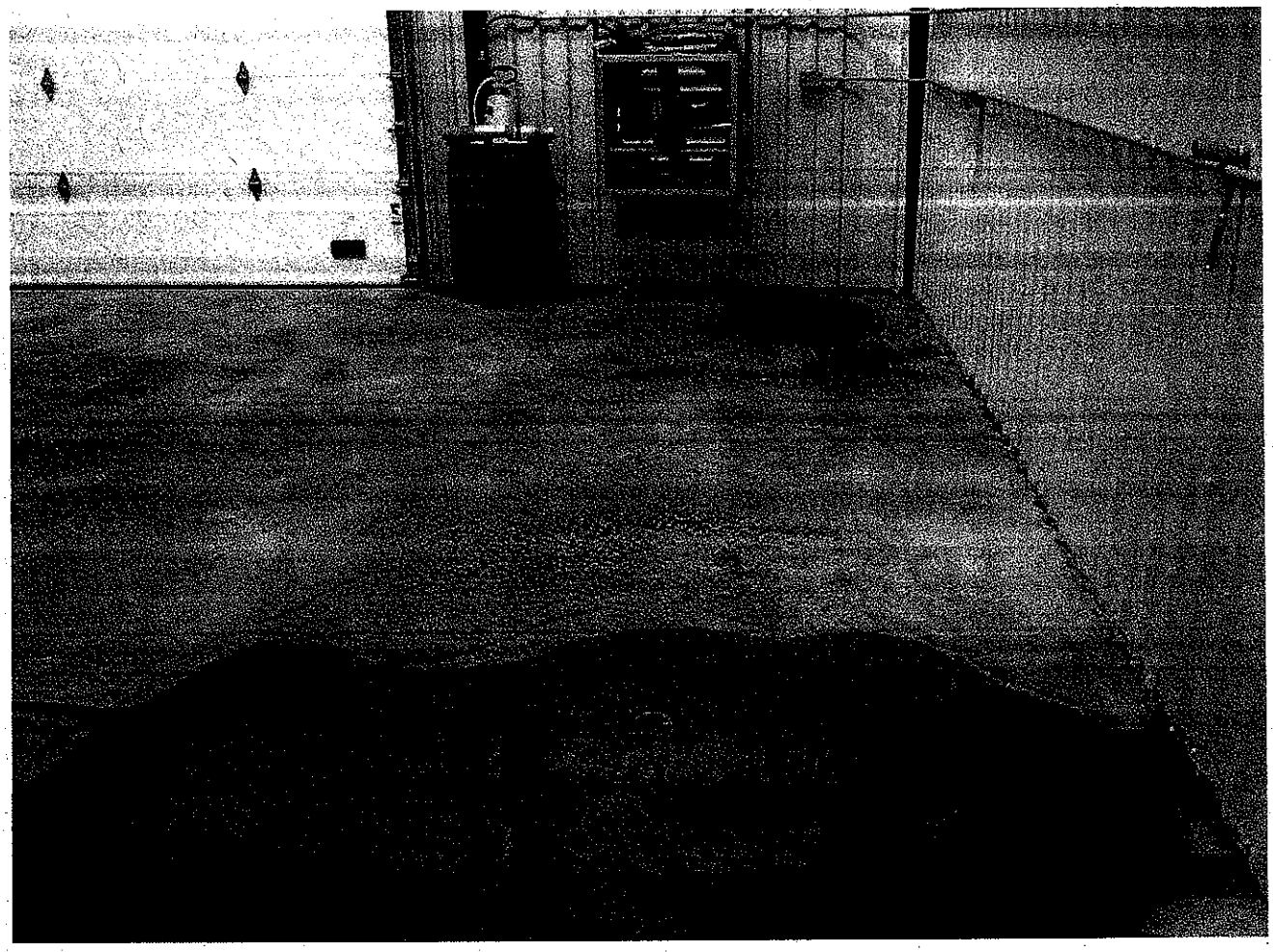
Official Photograph Log
Photo: 14 of 22

Photographer: Robert Houston **Date:** October 11, 2012 **Time:** 12:35 PM

Location: 1702 Haldeman Road **City/County:** Artesia **State:** New Mexico

Weather: 73.4 °F **Conditions:** Clear

Subject: Staff failed to clean residue from the belt press. Residue was located on the floor.



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Region 6
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Official Photograph Log

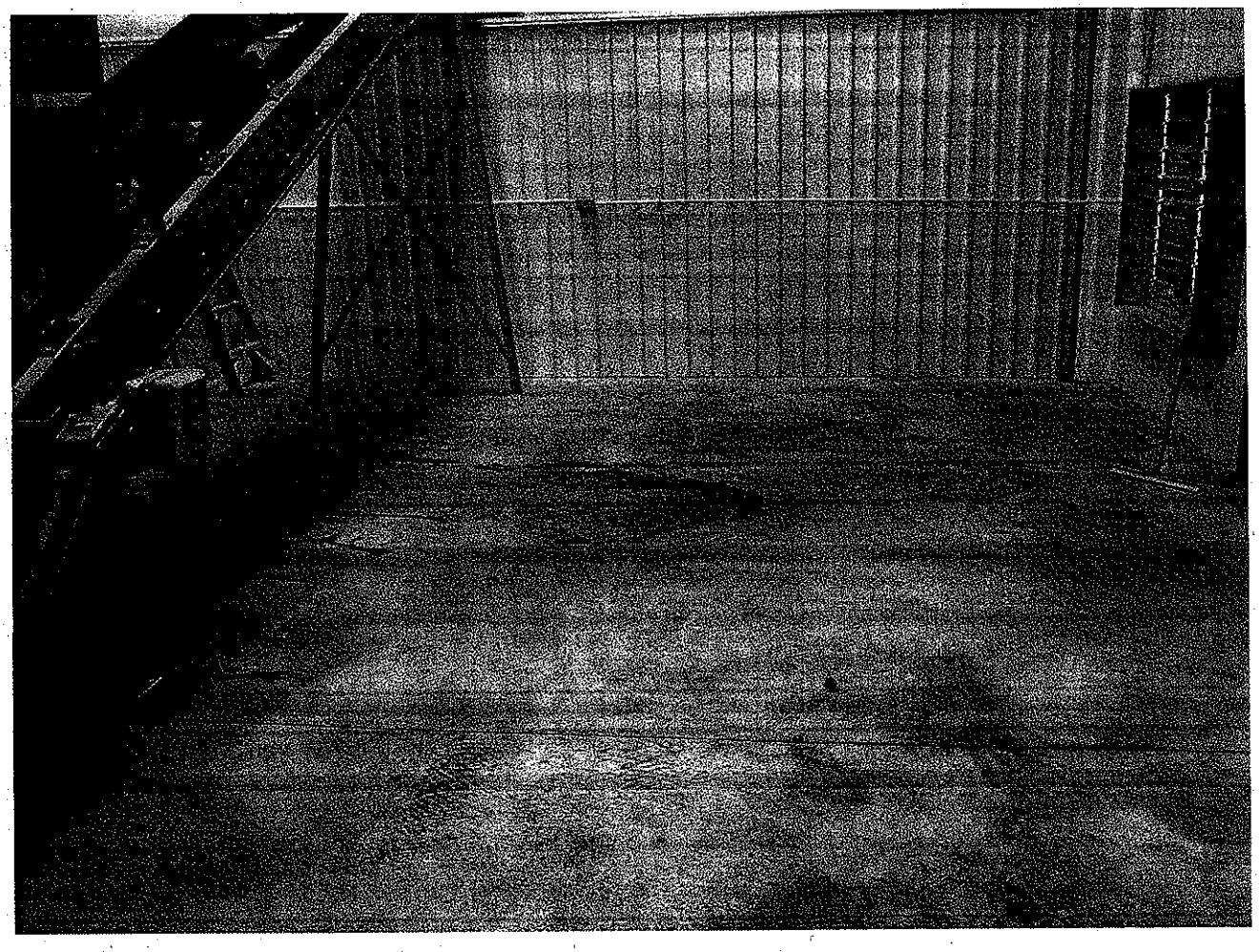
Photo: 15 of 22

Photographer: Robert Houston **Date:** October 11, 2012 **Time:** 12:36 PM

Location: 1702 Haldeman Road **City/County:** Artesia **State:** New Mexico

Weather: 73.4 °F **Conditions:** Clear

Subject: Staff failed to clean residue from the belt press. Residue was located on the floor.



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

Region 6
1445 Ross Avenue, Suite 1200
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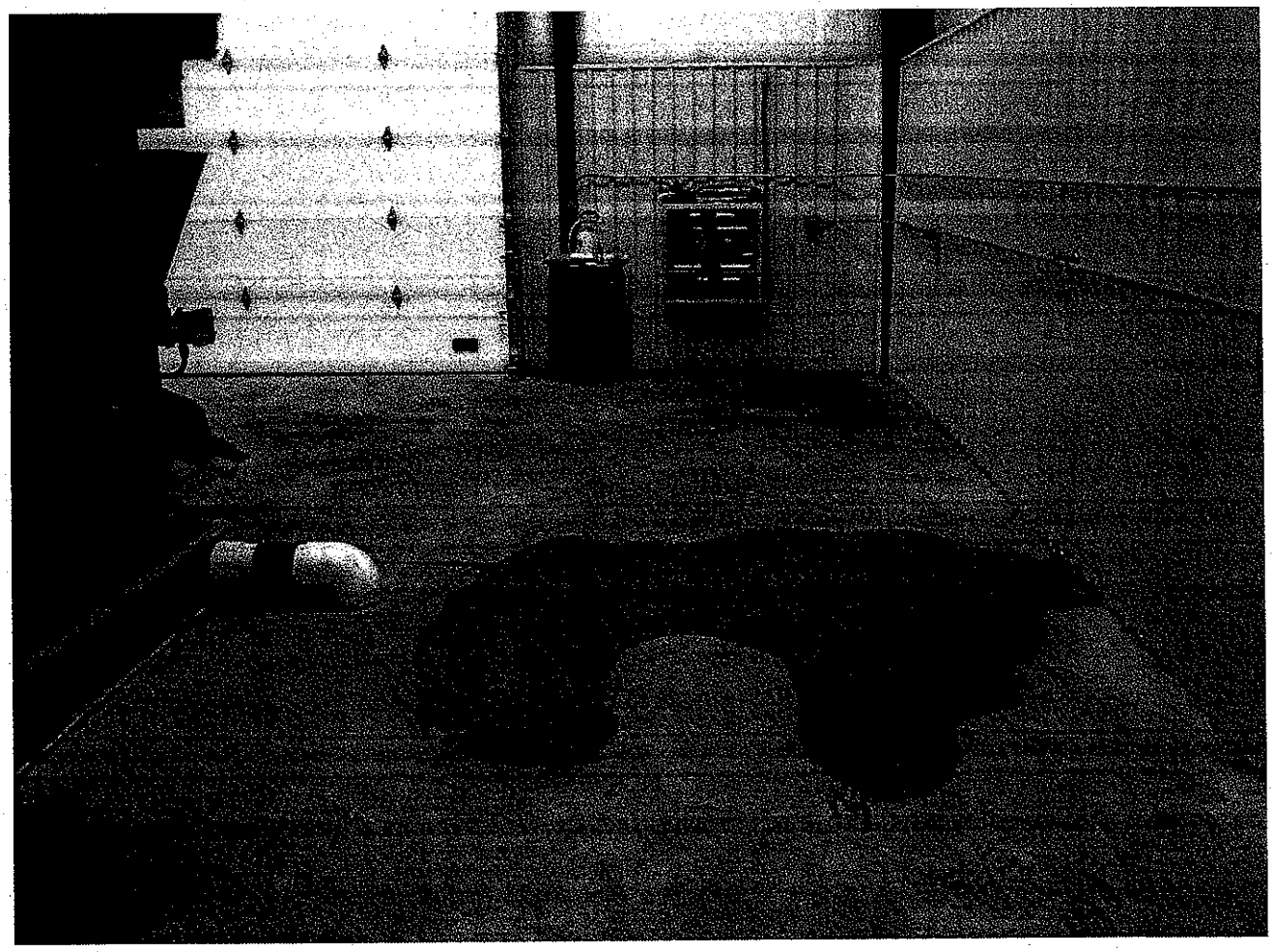
Official Photograph Log

Photo: 16 of 22

Photographer: Robert Houston **Date:** October 11, 2012 **Time:** 12:36 PM

Location: 1702 Haldeman Road **City/County:** Artesia **State:** New Mexico

Weather: 73.4 °F **Conditions:** Clear

Subject: Staff failed to clean residue from the belt press. Residue was located on the floor.