



CITY OF RICHMOND

DEPARTMENT OF PUBLIC UTILITIES

GAS AND WATER DISTRIBUTION

OPERATIONS CENTER

Mr. Byron E. Coy
Director, Eastern Region
Pipeline and Hazardous Materials Safety Administration
820 Bear Tavern Road, Suite 306
Trenton, NJ 08628

November 12, 2010

**RE: Notice of Probable Violation and Civil Penalty
CPF 1-2010-0004**

Dear Mr. Coy,

We received your Notice of Probable Violation and Proposed Civil Penalty (Reference CPF 1-2010-0004) dated October 14, 2010 and received October 18, 2010. We are respectfully contesting the allegations in item 1. The documentary record set out below demonstrates that this allegation is based upon false information, and therefore is invalid and should be abandoned.

Finding

The City of Richmond, VA (City), failed to follow its own operations and maintenance procedures policy by not repairing Grade 1 leaks immediately.

City records viewed by the VA SCC inspector identified four (4) Grade 1 leaks not repaired immediately:

Leak #	Date reported	Date repaired/Re-evaluated	Days late
67843	12/24/2008	1/2/2009	9
566945	1/12/2010	1/13/2010	1
238910	9/26/2008	9/26/2009	365
562586	1/7/2009	1/9/2009	2

Background

In our original response to the SCC, we agreed that these 4 leaks were rechecked (after their repair) outside of the procedural time frames. This was the issue identified in Item 2

of CPF 1-2010-0004. Item 2 is not being contested. However, in that response, we did not address the immediate repair issue of these 4 grade 1 leaks that is the foundation of item 1. Those repairs were done properly and within the City of Richmond's operations and maintenance procedural requirements.

Response

City of Richmond took immediate action on the grade 1 leaks.

The attached documentation shows that:

- Leak 067843 had the wrong leak grade checked off on the form. The remarks section and readings confirm that this was a grade 2 leak.
- Leak 566945 had the gas shutoff until the service could be replaced the next day. The leak was stopped.
- Leak 238910 had the wrong repair date listed on the leak report. Continuous action was taken until the leak was repaired.
- Leak 562586 was downgraded to a grade 2 leak.

In the attachments to this letter, we have circled various portions of the leak reports and attached daily reports as documentary evidence to support these conclusions.

Description of our Leak Management System

The City of Richmond's system of leak and work management is primarily a paper system. As we explained in our post hearing brief (related to CPF 1-2010-0001) response:

*The leak report (**that was the basis of this item**) is an initial document and NOT the final document of record for a City of Richmond Leak. The leak report repair record is created in the middle of the leak cause determination process, not at the end of our process. Our process is as follows:*

1. *A leak is identified and graded*
2. *The leak report (that you reviewed) is completed when the leak is identified and repaired. Field personnel or contractors make their initial determination of cause and facility affected. The information at this point has not been reviewed by any other City of Richmond personnel*
3. *The leak record is used as a data entry form for capturing the data in our leak database. In 2007 and 2008 this was an Excel file. We now have a SQL Server based database for our leak records. The leak details and cause are manually keyed into the database.*
4. *This database is reviewed for discrepancies and inconsistencies. These are resolved through a continuing review process that includes the General Supervisor and Operations Manager. The database is corrected as needed.*
5. *It is our leak database that contains the accurate, City supported record of the leak, not the initial paper leak record...*

Discrepancies in repair dates and leak grades are also corrected in our database as the result of supervisory review of that database. The paper leak report, which was reviewed by the SCC, is only one piece of the repair record. The Supervisor also consults the daily reports which provide more detail on the repair assessment actions.

As a reference our leak grading criteria are provided as Attachment A to this report. This is excerpted from our O&M Procedure II.6.II entitled "Leak Response, Tracking and Repair"

Hearing Request

It is the City's contention that the information contained herein is more than sufficient to prove that the allegations of Item 1 are based upon incorrect data, and therefore the violation should be abandoned. Should PHMSA disagree with this contention, the City reserves our right to a hearing in accordance with 190.209. The issues to be raised in the hearing include discussion of the allegations in the notice and the proposed civil penalty amount based upon the incorrect facts in Item 1 of the Notice of Probable Violation and Civil Penalty dated October 14, 2010 reference number CPF 1-2010-0004. City of Richmond DPU will be represented by counsel at the hearing.

Attachments

Attachment A: City of Richmond – DPU Leak grading Criteria

Attachment B: Leak 067843 Details

Attachment C: Leak 566945 Details

Attachment D: Leak 238910 Details

Attachment E: Leak 562586 Details

If you have any further questions, please contact me.

Sincerely,



Michael R. Bellman
Deputy Director – Gas & Light
City of Richmond – DPU
400 Jefferson Davis Highway
Richmond, VA 23224
(804) 646-8301

cc. Gregory O'Halloran, Esq.
Robert Steidel
Carl James

ATTACHMENT A CITY OF RICHMOND DPU

Leak Criteria	Grade 1	Grade 2	Grade 3
Any leak regarded as an immediate hazard	Any reading		
Escaping Gas that has ignited	Any reading		
Gas leak that can be seen, heard, or felt in a location that may endanger public or property	Any reading		
Gas has migrated into building or tunnel	Any reading		
Gas against the outside wall of a building	Any reading		
Gas in a manhole, vault or catch basin	≥ 80% LEL	< 80% LEL	
Gas in a small substructure (other than gas related) from which gas could migrate creating a hazard	≥ 80% LEL	< 80% LEL	
Gas in a confined space	≥ 80% LEL	≥ 20% LEL but < 80% LEL	< 20% LEL
Leak which could migrate to the outside wall of a building under frozen conditions		Any reading	
Gas leak of sufficient magnitude to justify scheduled repair		Any reading	
Gas under a sidewalk in wall to wall paved area		≥ 40% LEL	
Gas under a street in wall to wall paved area		≥ 100% LEL	
Gas in a gas associated substructure (valve box, for example)		≥ 80% LEL	< 80% LEL
Gas under a street in areas without wall to wall paving			Any reading

ATTACHMENT B

Leak # 067843

Allegation: This was a grade 1 leak reported on 12/24/08 and not repaired until 1/2/09.

Actual Fact: This was not a grade 1 leak

This was improperly identified as a grade one leak on the form (the wrong box was checked off). The remarks section of the leak listed the proper leak grade as a Grade II leak. This was supported by the actual gas readings recorded on the form.

The Remarks section of the leak report dated 12/24/08 (Circled – see below) reads:

“Found 40% gas in bar hole near curbcock, 0% gas at foundation and sewer.
Made Grade II ticket to have H&M (our contractor Henkels & McCoy) to drill out main and services”.

This Grade II leak was repaired on 1/2/09.

Attachment B: Leak 067843, Continued

Although marked as a Grade 1, the remarks text and readings indicate that this was a Grade 2 leak.

ONE - 1-2-09

563081

CITY OF RICHMOND

LEAKAGE INSPECTION - LOCATION REPORT

RELOCATION ORDER

LEAK #: 067843

DATE REPORTED: 12/24/08

TIME REPORTED: _____

TIME DISPATCHED: _____

TIME ARRIVED: _____

REPORTED BY: _____

DPU S/O #: _____

M/U REPAIR TICKET #: B836401699

DATE RE-CHECKED: _____

ADDRESS: 2220 Parkwood Ave
 CROSS STREETS: S. Addison St. / S. Shields St.
 CITY/COUNTY: Richmond
 MAP PAGE: Richmond 819C3 "15 NE"
 LEAK INVESTIGATOR: 284 Chris Harris

DPU LEAK LOCATION SITE DATA

<input checked="" type="checkbox"/> Flame Pack <input type="checkbox"/> Visual/Vegetation <input type="checkbox"/> Combustible Meter <input checked="" type="checkbox"/> Odor Complaint <input type="checkbox"/> Other Dig-in <input type="checkbox"/> Other	<input type="checkbox"/> In Building <input type="checkbox"/> Near Bldg. <input type="checkbox"/> In Man-Hole <input checked="" type="checkbox"/> In Soil <input type="checkbox"/> In Air <input type="checkbox"/> Other	<input type="checkbox"/> Main <input type="checkbox"/> Service <input type="checkbox"/> Service Tap <input type="checkbox"/> Valve <input type="checkbox"/> Meter Set <input type="checkbox"/> Other	<input type="checkbox"/> Rock <input type="checkbox"/> Clinders <input type="checkbox"/> Clay <input type="checkbox"/> Loam <input type="checkbox"/> Sand <input type="checkbox"/> Other	<input checked="" type="checkbox"/> Gas % <u>40%</u> <input type="checkbox"/> L.E.L. % <input type="checkbox"/> P.P.M. <input type="checkbox"/> Negative	<input type="checkbox"/> Low <input checked="" type="checkbox"/> r.P. <input type="checkbox"/> High	<input type="checkbox"/> Lawn <input type="checkbox"/> Soil <input type="checkbox"/> Paved <input type="checkbox"/> Other	<input type="checkbox"/> Steel <u>1.2"</u> <input type="checkbox"/> Plastic <input type="checkbox"/> Cast Iron <input type="checkbox"/> Ductile Iron <input type="checkbox"/> Other
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REMARKS - VEGETATION DAMAGE

Found 40% gas in bar hole near curbcock, off gas of foundations and front sewer under sidewalk. It checked the hole then to drill out main + seal in S.

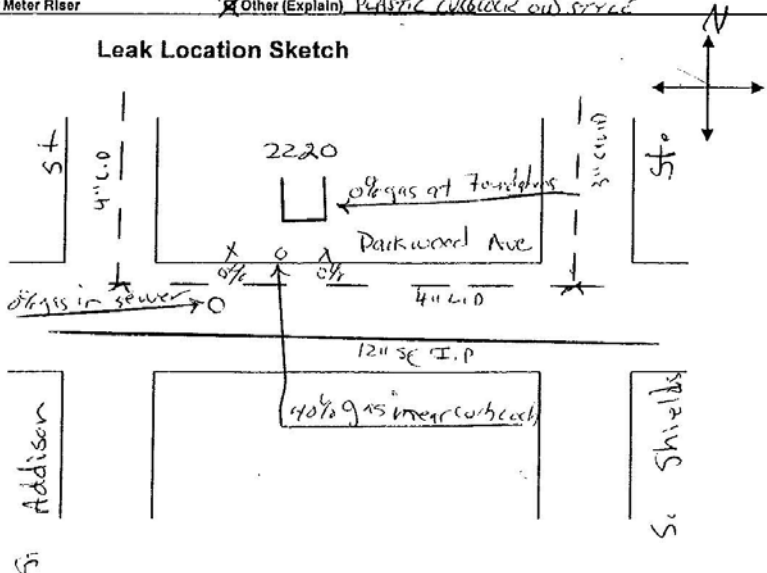
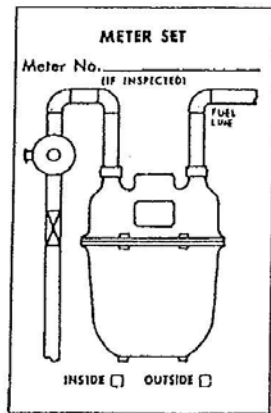
AREA LOCATION: COMMERCIAL INDUSTRIAL RESIDENTIAL RURAL

LEAK LOCATION REPORTING DATA

<input checked="" type="checkbox"/> Grade 1 <input type="checkbox"/> Grade 2 <input type="checkbox"/> Grade 3	<input type="checkbox"/> Above Ground <input checked="" type="checkbox"/> Below Ground	<input type="checkbox"/> Valve <input checked="" type="checkbox"/> Pipe <input type="checkbox"/> Stopcock <input type="checkbox"/> Fitting* <input type="checkbox"/> Joint** <input type="checkbox"/> Gauge Line <input type="checkbox"/> Riser <input type="checkbox"/> Regulator <input type="checkbox"/> Meter <input type="checkbox"/> Drip <input type="checkbox"/> Tap	<input type="checkbox"/> Meter Assembly <input type="checkbox"/> Odorizer <input type="checkbox"/> Regulator Station <input type="checkbox"/> Compressor Station <input type="checkbox"/> N/A	<input checked="" type="checkbox"/> Main <u>1.2"</u> IPS/CTS <input checked="" type="checkbox"/> Service <u>1.2"</u> IPS/CTS <input type="checkbox"/> Date Installed	<input type="checkbox"/> Bare Steel <input type="checkbox"/> Coated Steel <input type="checkbox"/> Ductile Iron <input type="checkbox"/> Cast Iron <input type="checkbox"/> Galvanized <input type="checkbox"/> Copper <input checked="" type="checkbox"/> HDPE <input type="checkbox"/> Other
---------------------------------------------------------------------------------------------------------------------	-------------------------------------------------------------------------------------------	------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------	-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------	----------------------------------------------------------------------------------------------------------------------------------------------------------------------------	---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------

<input type="checkbox"/> Mechanical Service Tee <input type="checkbox"/> Heat Fusion Service Tee <input type="checkbox"/> Electrofusion Service Tee <input type="checkbox"/> Welded Service Tee <input type="checkbox"/> Saddle Fitting <input type="checkbox"/> Service Tee Cap <input type="checkbox"/> Anodeless Meter Riser	<input type="checkbox"/> Threadlets/Weldolets/Socklets <input type="checkbox"/> Plugs/Caps <input type="checkbox"/> Elbow <input type="checkbox"/> Nipple <input type="checkbox"/> Tee <input type="checkbox"/> Diaphragm <input type="checkbox"/> Other Meter Riser	<input type="checkbox"/> Coupling - Metal <input type="checkbox"/> Coupling - Plastic <input type="checkbox"/> Transition Fitting <input type="checkbox"/> Split Sleeve <input type="checkbox"/> Leak Clamp <input type="checkbox"/> Bell Joint Clamp <input checked="" type="checkbox"/> Other (Explain) <u>PLASTIC CURBCK AND SERVICE</u>	<input type="checkbox"/> Meter Swivel <input type="checkbox"/> Union <input type="checkbox"/> Insulator
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Leak Location Sketch



ATTACHMENT C

Leak # 566945

Allegation: This was a grade 1 leak reported on 1/12/10 and not repaired until 1/13/10.

Actual Fact: The gas was shut off and a temporary repair was made immediately to stop the leak on the riser. The service was replaced the next day.

The actions taken on this Grade 1 leak on 1/12/10 are documented in the leak report and in the Service Order history.

From the remarks section of the leak report completed by Unit 242:

“Meet 497, Found Riser had corrosion holes. Need crew to make repairs. Made safe with a clamp”.

From the Service Order History form:

“242 Found Grade 1 riser leaking, turned off cc (curb cock), needs new LP svc”.

The entire service was replaced on the next day, 1/13/10.

Attachment C: Leak 566945, Continued
 This Grade 1 Leak was made safe with a clamp

CITY OF RICHMOND

M/U # A001200723

LEAKAGE INSPECTION - LOCATION REPORT
 RELOCATION ORDER

DATABASE # 566945
 REFERENCE LEAK#: _____
 DATE REPORTED: 7-12-10
 TIME REPORTED: _____
 TIME DISPATCHED: 11:27
 TIME ARRIVED: 11:39
 REPORTED BY: _____
 DPU S/O #: _____
 M/U REPAIR TICKET #: A001200723
 DATE RE-CHECKED: _____

ADDRESS: 4709 Cutshaw Ave
 CROSS STREETS: Staples Mill 1 Dead End
 CITY/COUNTY: CITY OF RICHMOND
 MAP PAGE: 8011 19-8 37 NW
 LEAK INVESTIGATOR: David Moore 242

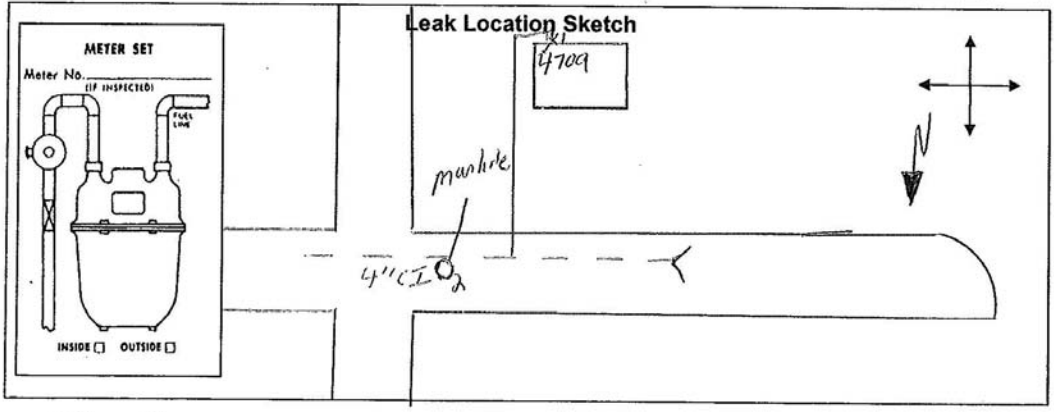
DPU LEAK LOCATION SITE DATA									
DETECTED BY <input type="checkbox"/> Flame Pack <input type="checkbox"/> Visual/Vegetation <input type="checkbox"/> Combustible Meter <input checked="" type="checkbox"/> Odor Complaint <input type="checkbox"/> Other Dig-In <input type="checkbox"/> Other	COLLECTING <input type="checkbox"/> In Bldg <input checked="" type="checkbox"/> Near Bldg. <input type="checkbox"/> In Man Hole <input checked="" type="checkbox"/> In Soil <input type="checkbox"/> In Air <input type="checkbox"/> Other	PROBABLE SOURCE <input type="checkbox"/> Main <input checked="" type="checkbox"/> Service <input type="checkbox"/> Service Tap <input type="checkbox"/> Valve <input type="checkbox"/> Meter Set <input type="checkbox"/> Other	SOIL <input type="checkbox"/> Rock <input checked="" type="checkbox"/> Clnders <input checked="" type="checkbox"/> Clay <input type="checkbox"/> Loam <input type="checkbox"/> Sand <input type="checkbox"/> Other	VENTED C.G.I. TEST <input checked="" type="checkbox"/> Gas % <u>100%</u> <input type="checkbox"/> L.E.L. % <input type="checkbox"/> P.P.M. <input type="checkbox"/> Negative	PRESSURE <input checked="" type="checkbox"/> Low <input type="checkbox"/> I.P. <input type="checkbox"/> High	SURFACE <input checked="" type="checkbox"/> Lawn <input type="checkbox"/> Soil <input type="checkbox"/> Paved <input type="checkbox"/> Other	PIPE & SIZE <input type="checkbox"/> Steel <input type="checkbox"/> Plastic <input type="checkbox"/> Cast Iron <input type="checkbox"/> Ductile Iron <input checked="" type="checkbox"/> Other <u>Galv</u>		

REMARKS - VEGETATION DAMAGE
meet 497 found riser had casing hole need cover to make repair made safe with clamp

AREA LOCATION: COMMERCIAL INDUSTRIAL RESIDENTIAL RURAL

LEAK LOCATION REPORTING DATA					
CLASSIFICATION <input checked="" type="checkbox"/> Grade 4 <input type="checkbox"/> Grade 2 <input type="checkbox"/> Grade 3	LEAK LOCATED <input type="checkbox"/> Above Ground <input checked="" type="checkbox"/> Below Ground	LOCATED ON <input type="checkbox"/> Valve <input checked="" type="checkbox"/> Pipe <input type="checkbox"/> Stopcock <input type="checkbox"/> Fitting* <input type="checkbox"/> Joint** <input type="checkbox"/> Gauge Line <input type="checkbox"/> Riser <input type="checkbox"/> Regulator <input type="checkbox"/> Meter <input type="checkbox"/> Drip <input type="checkbox"/> Tap	LOCATED AT <input type="checkbox"/> Meter Assembly <input type="checkbox"/> Odorizer <input type="checkbox"/> Regulator Station <input type="checkbox"/> Compressor Station <input type="checkbox"/> N/A	FACILITY TYPE & SIZE <input type="checkbox"/> Main _____ IPS/CTS <input checked="" type="checkbox"/> Service _____ IPS/CTS <input type="checkbox"/> Date Installed _____ IPS/CTS	PIPE TYPE <input type="checkbox"/> Bare Steel <input type="checkbox"/> Coated Steel <input type="checkbox"/> Ductile Iron <input type="checkbox"/> Cast Iron <input type="checkbox"/> Galvanized <input type="checkbox"/> Copper <input type="checkbox"/> HDPE <input type="checkbox"/> Other

- * TYPE OF LEAKING FITTING (IF LOCATED ON FITTING)
- | | | | |
|----------------------------------------------------|----------------------------------------------------------|---------------------------------------------|---------------------------------------|
| <input type="checkbox"/> Mechanical Service Tee | <input type="checkbox"/> Threadolots/Weldolets/Sockolots | <input type="checkbox"/> Coupling - Metal | <input type="checkbox"/> Meter Swivel |
| <input type="checkbox"/> Heat Fusion Service Tee | <input type="checkbox"/> Plugs/Caps | <input type="checkbox"/> Coupling - Plastic | <input type="checkbox"/> Union |
| <input type="checkbox"/> Electrofusion Service Tee | <input type="checkbox"/> Elbow | <input type="checkbox"/> Transition Fitting | <input type="checkbox"/> Insulator |
| <input type="checkbox"/> Welded Service Tee | <input type="checkbox"/> Nipple | <input type="checkbox"/> Split Sleeve | |
| <input type="checkbox"/> Saddle Fitting | <input type="checkbox"/> Tee | <input type="checkbox"/> Leak Clamp | |
| <input type="checkbox"/> Service Tee Cap | <input type="checkbox"/> Diaphragm | <input type="checkbox"/> Bell Joint Clamp | |
| <input type="checkbox"/> Anodeless Meter Riser | <input type="checkbox"/> Other Meter Riser | <input type="checkbox"/> Other (Explain) | |



1) 100% 2) 0 3) _____ 4) _____ 5) _____ 6) _____ 7) _____ 8) _____ 9) _____ 10) _____

Attachment C: Leak 566945, Continued

And Gas was shut off at the curb valve. This information was entered in our customer service database

Service Order History Form

UZI80HS 2.0.3 Department of Public Utilities 25-OCT-2010 05:49:25

CLOSE 20-JAN-2010 AT 13:47:33 by OPS\$POCKLIDM SO 4433868

Primary 985 CHIKLIK STREET SERVICE Found On Left On

Secondary 6544 FOUND GRADE 1 LEAK Frozen Location

Secondary Conn Size 275A

Compl by AGNOR, DAVID

Dwells 1

Spec Rd

	Number	Mfg	Config	RT	Reg_1	Reg_2	Reg_3
Prev Rds					3		
OLD Meter	15334117	E2	D4				
NEW Meter							
Corrector							
AMR							

Completed 12-JAN-2010 11:26 Amt Paid Charge

Notes 242 FOUND GGRADE 1 - RISER LEAKING, TURNED OFF AT CC, NEEDS NEW LP SVC

ATTACHMENT D

Leak # 238910

Allegation: This was a grade 1 leak reported on 9/26/08 and not repaired until 9/26/09.
Actual Fact: This grade 1 leak had the wrong repair date listed on the leak report form. There was continuous action on this leak until it was repaired on 9/27/08.

The leak was identified and properly graded as a Grade 1 leak by our leak surveyor.

Our Inspector #245 arrived (12:00 on 9/26/08) and made Miss Utility Notifications.

H&M crew #11 arrived at 13:30 and worked until 17:30.

They were relieved by H&M crew #8 who arrived at 16:00 and worked until 08:00 on 9/27/08.

“Relieved crew #11 on Class I gas leak”

The leak was repaired in the early morning hours of 9/27/08. The report states:

“Found 6” Mechanical joint leaking, tighten joint up, soap check, no leaks...”

Our night Inspector # 240 checked on Crew #8 at 16:45 on 9/26/08. He was at the site from midnight until 7:27 am on 9/27/08 and noted:

“... dug up another joint and tighten – stop leak – and gas was clear from side walk”

Attachment D: Leak 238910, Continued

CITY OF RICHMOND

LEAKAGE INSPECTION - LOCATION REPORT
 RELOCATION ORDER

LEAK #: 238910 (Handwritten: 562284)

DATE REPORTED: 9-26-08

TIME REPORTED: _____

TIME DISPATCHED: _____

TIME ARRIVED: _____

REPORTED BY: _____

DPU S/O #: _____

M/IU REPAIR TICKET #: A827000595

DATE RE-CHECKED: _____

ADDRESS: CUMMINGS DR AT QUARRY ST

CROSS STREETS: _____

CITY/COUNTY: RICHMOND

MAP PAGE: 10-NE 286-NE-12

LEAK INVESTIGATOR: Ry Dumas

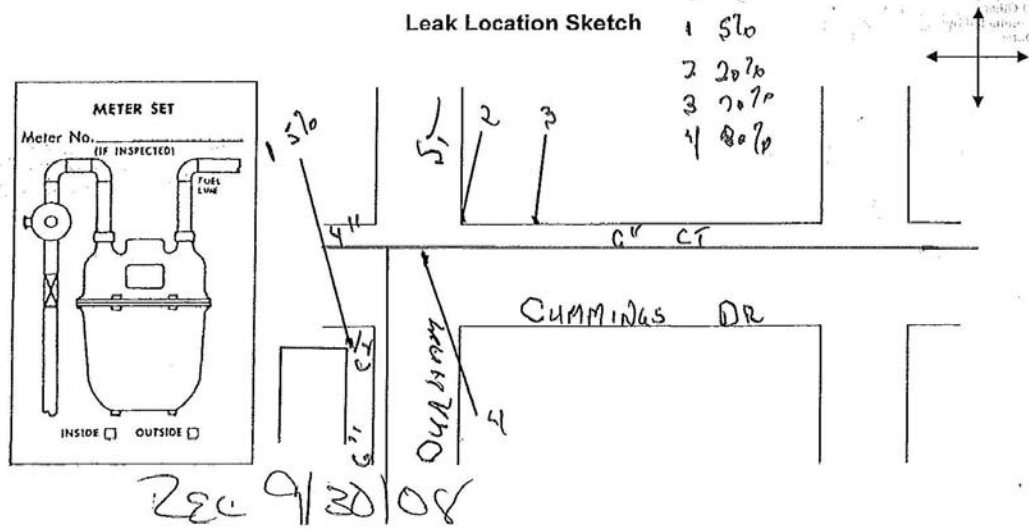
DPU LEAK LOCATION SITE DATA							
DETECTED BY <input checked="" type="checkbox"/> Flame Pack <input type="checkbox"/> Visual/Vegetation <input type="checkbox"/> Combustible Meter <input type="checkbox"/> Odor Complaint <input type="checkbox"/> Other Dig-In <input type="checkbox"/> Other	COLLECTING <input type="checkbox"/> In Building <input checked="" type="checkbox"/> Near Bldg. <input type="checkbox"/> In Man Hole <input checked="" type="checkbox"/> In Soil <input type="checkbox"/> In Air <input type="checkbox"/> Other	PROBABLE SOURCE <input checked="" type="checkbox"/> Main <input type="checkbox"/> Service <input type="checkbox"/> Service Tap <input type="checkbox"/> Valve <input type="checkbox"/> Meter Set <input type="checkbox"/> Other	SOIL <input type="checkbox"/> Rock <input type="checkbox"/> Clinders <input checked="" type="checkbox"/> Clay <input type="checkbox"/> Loam <input type="checkbox"/> Sand <input type="checkbox"/> Other	VENTED C.G.I. TEST <input checked="" type="checkbox"/> Gas % <input type="checkbox"/> L.E.L. % <input type="checkbox"/> P.P.M. <input type="checkbox"/> Negative	PRESSURE <input type="checkbox"/> Low <input checked="" type="checkbox"/> P.P. <input type="checkbox"/> High	SURFACE <input type="checkbox"/> Lawn <input type="checkbox"/> Soil <input checked="" type="checkbox"/> Paved <input type="checkbox"/> Other	PIPE & SIZE <input type="checkbox"/> Steel <input type="checkbox"/> Plastic <input type="checkbox"/> Cast Iron <input type="checkbox"/> Ductile Iron <input type="checkbox"/> Other

REMARKS - VEGETATION DAMAGE

AREA LOCATION: COMMERCIAL INDUSTRIAL RESIDENTIAL RURAL

LEAK LOCATION REPORTING DATA					
CLASSIFICATION <input checked="" type="checkbox"/> Grade 1 <input type="checkbox"/> Grade 2 <input type="checkbox"/> Grade 3	LEAK LOCATED <input type="checkbox"/> Above Ground <input checked="" type="checkbox"/> Below Ground	LOCATED ON <input type="checkbox"/> Valve <input type="checkbox"/> Pipe <input type="checkbox"/> Stopcock <input type="checkbox"/> Fitting* <input type="checkbox"/> Joint** <input type="checkbox"/> Gauge Line <input type="checkbox"/> Riser <input type="checkbox"/> Regulator <input type="checkbox"/> Meter <input type="checkbox"/> Drip <input type="checkbox"/> Tap	LOCATED AT <input type="checkbox"/> Meter Assembly <input type="checkbox"/> Odorizer <input type="checkbox"/> Regulator Station <input type="checkbox"/> Compressor Station <input type="checkbox"/> N/A	FACILITY TYPE & SIZE <input type="checkbox"/> Main <input type="checkbox"/> Service <input type="checkbox"/> Date Installed	PIPE TYPE <input type="checkbox"/> Bare Steel <input type="checkbox"/> Coated Steel <input type="checkbox"/> Ductile Iron <input type="checkbox"/> Cast Iron <input type="checkbox"/> Galvanized <input type="checkbox"/> Copper <input type="checkbox"/> HDPE <input type="checkbox"/> Other

* TYPE OF LEAKING FITTING (if LOCATED ON FITTING)			
<input type="checkbox"/> Mechanical Service Tee <input type="checkbox"/> Heat Fusion Service Tee <input type="checkbox"/> Electrofusion Service Tee <input type="checkbox"/> Welded Service Tee <input type="checkbox"/> Saddle Fitting <input type="checkbox"/> Service Tee Cap <input type="checkbox"/> Anodeless Meter Riser	<input type="checkbox"/> Threadolets/Weldolets/Socketlets <input type="checkbox"/> Plugs/Caps <input type="checkbox"/> Elbow <input type="checkbox"/> Nipple <input type="checkbox"/> Tee <input type="checkbox"/> Diaphragm <input type="checkbox"/> Other Meter Riser	<input type="checkbox"/> Coupling - Metal <input type="checkbox"/> Coupling - Plastic <input type="checkbox"/> Transition Fitting <input type="checkbox"/> Split Sleeve <input type="checkbox"/> Leak Clamp <input type="checkbox"/> Bell Joint Clamp <input type="checkbox"/> Other (Explain)	<input type="checkbox"/> Meter Swivel <input type="checkbox"/> Unlon <input type="checkbox"/> Insulator



Attachment D: Leak 238910, Continued

Inspector #245 was first to arrive and worked with H&M crew #11 and then with H&M crew #8

DAILY WORK REPORT

Contractor : _____ No. of Men _____ Date : 9/26/08 Locations
 Supervisor : Palma Lopez Unit No. 245# H = Henrico
 C = Chesterfield
 R = Richmond

TIME		DESCRIPTION OF WORK	PAVING REQUIRED	
Arrival	H			CODE
0730		Office Getting Location for H&M Crews		051-964
Departure	C			1002-8700
Map Page #	R			Ticket #
Arrival	H	Crew 4# 1107 N 26 th St. Crew marked		CODE
9:00 Am		Dug up 4" Bell joint leaking resculat		
Departure	C	Moved to 2100 3 rd Ave - in alley - Close I 28 & arrived 11:45 Am		
Map Page #	R	Install 4" Repair Sleeve.		Ticket #
Arrival	H	Crew 1# 4221 Kingcrest Parkway. Crew marked		CODE
9:45 Am				
Departure	C			
Map Page #	R			Ticket #
Arrival	H	Crew 7# 402 Whitmore Ct. Relocating		CODE
10:04 Am		the gas sewer. moved to 2508 3 rd Ave. Close I		
Departure	C	270 th cut 1 1/8" PE gas sewer line arrived 11:30 Am		
Map Page #	R			Ticket #
Arrival	H	Made repairs on those sewer air tested with 50lb		CODE
		for 15 mins OK		
Departure	C			
Map Page #	R	Crew 11# Durham St + Cummings Dr. Close I - SCross		Ticket #
Arrival	H	gas at Building wall. Drill out the gas main		CODE
12:00 Pm		Turned leak over to Night Crew 8#.		
Departure	C			
1:00				
Map Page #	R			Ticket #
Arrival	H			CODE
Departure	C			
Map Page #	R			Ticket #
Arrival	H			CODE
Departure	C			
Map Page #	R			Ticket #

Attachment D: Leak 238910, Continued
H&M Crew #11 report

HENKELS & M'COY, Inc. DAILY WORK REPORT

NO. 03-05-4300-11 APPROVED BY [Signature] DATE 9-26-08

COMPANY D-P-U CITY Richmond Va.

LOCATION / ADDRESS: Cummings Dr. Cox Durham N.C.

PAVING CODE: ASPH GAS MAP PAGE NO. 10 N.E SERVICE ORDER NO. 238910

H	ASPHALT	CONCRETE	DIRT/GRASS/SEED	GRADE OF LEAK:
C				JOB IS COMPLETE <input type="checkbox"/>
R				JOB IS INCOMPLETE <input checked="" type="checkbox"/>

MAIN REPAIRED

SLEEVE INSTALLED

HUBS SEALED

JOINT TIGHTENED

COUPLING TIGHTENED

VALVE

CAST IRON

STEEL

PLASTIC

GALVANIZED

SIZE 6"

SERVICE REPAIRED

SERVICE REPLACED

MAIN TO CC

CC TO METER

1/2" PE

1" PE

2" PE

OTHER

RELOCATED

EXISTING PIPE

GALVANIZED

STEEL

PLASTIC

CAST IRON

COPPER

LEAK PINPOINTED YES NO DESCRIPTION _____ # OF HOLES DRILLED _____

SHORING BOX USED YES NO AIR TESTED _____ PSI _____ MIN.

TAILBOARD MEETING YES NO TOPIC _____

13:30

Arrived on the class 1 gas leak at Cummings Dr. and Durham St. we met our boss and signed out then we had to wait for Miss utilities after Miss utilities came and marked down there then we will some holes over the 6" gas main we started the holes and I took all of the holes with the indicator and I did see a good indication of gas in 15 areas then we stopped after we stopped I checked the holes with the indicator and I still pick up a good indication of gas in the same 15 areas so I think to area

17:30

PERSONNEL	HRS
SUPT.	
ASST. SUPT.	
FOREMAN <u>M. Cosby</u>	4
ASST. FORE.	
LABORER #1 <u>Tom Zaccaro</u>	4
LABORER #2 <u>Michael Cosby</u>	4
FLOATER	
D/T OPER	
D/T OPER	
B/H OPER	
B/H OPER	
TRAINER	

CHARGEABLE EQUIPMENT	HRS
TRUCK W/ TOOLS <u>20000</u>	4
BACKHOE	
DUMPTRUCK	
COMPRESSOR <u>20000</u>	4
CRASH TRUCK/Hours	
CRANE TRUCK/Hours	
ARROW BOARD/Hours	
HOE RAM/Hours	
TRENCHER/Hours	
SM. MISSILE SHOT/Hours	
LG. MISSILE SHOT/Hours	
STEEL PLATES/Hours	
<u>Michael Cosby</u>	
SIGNED	

Form # 004 3/06

Attachment D: Leak 238910, Continued

H&M Crew #8 Report – They worked from 16:00 on 9/26/08 until 08:00 9/27/08. leak was repaired in early morning hours of 9/27/08

HENKELS & M'COY, Inc. DAILY WORK REPORT. DATE 09-26-08

NO. 03-05-0430048 APPROVED BY _____ CODE NUMBERS HRS
 05196410028700 16
 4301012
 4301013 A

COMPANY D.P.U CITY Richmond, Va

LOCATION / ADDRESS: Cummings Dr. At Durham St SERVICE ORDER NO. 238910

PAVING CODE: 05196410028700 GAS MAP PAGE NO. 18 NE

H	ASPHALT	CONCRETE	DIRT/GRASS/SEED	GRADE OF LEAK: <u>T</u>
C	<u>5b45 5b46</u>			JOB IS COMPLETE <input checked="" type="checkbox"/>
<u>(R)</u>	<u>5b45 4b45</u>			JOB IS INCOMPLETE <input type="checkbox"/>

- | | | | | |
|-----------------------------------------------------|-------------------------------------|---------------------|-------------------------------------------|-------------------------------------|
| <input type="checkbox"/> MAIN REPAIRED | <input type="checkbox"/> CAST IRON | SIZE <u>4" x 6"</u> | <input type="checkbox"/> SERVICE REPAIRED | EXISTING PIPE |
| <input type="checkbox"/> SLEEVE INSTALLED | <input type="checkbox"/> STEEL | _____ | <input type="checkbox"/> SERVICE REPLACED | <input type="checkbox"/> GALVANIZED |
| <input type="checkbox"/> HUBS SEALED | <input type="checkbox"/> PLASTIC | _____ | <input type="checkbox"/> MAIN TO CC | <input type="checkbox"/> STEEL |
| <input checked="" type="checkbox"/> JOINT TIGHTENED | <input type="checkbox"/> GALVANIZED | _____ | <input type="checkbox"/> CC TO METER | <input type="checkbox"/> PLASTIC |
| <input type="checkbox"/> COUPLING TIGHTENED | | | <input type="checkbox"/> 1/2" PE | <input type="checkbox"/> CAST IRON |
| <input type="checkbox"/> VALVE | | | <input type="checkbox"/> 1" PE | <input type="checkbox"/> COPPER |
| | | | <input type="checkbox"/> 2" PE | <input type="checkbox"/> RELOCATED |

LEAK PINPOINTED YES NO DESCRIPTION _____ # OF HOLES DRILLED 29

SHORING BOX USED YES NO AIR TESTED _____ PSI _____ MIN.

TAILBOARD MEETING YES NO TOPIC _____

PERSONNEL	HRS
SUPT.	
ASST. SUPT. <u>C. Purdy</u>	<u>16</u>
FOREMAN <u>L. Casby</u>	<u>16</u>
ASST. FORE. <u>B. Silva</u>	<u>8</u>
LABORER #1 <u>Joseph</u>	<u>16</u>
LABORER #2 <u>M. Foster</u>	<u>8</u>
FLOATER	
D/T OPER <u>J. Crawford</u>	<u>16</u>
D/T OPER	
B/H OPER	
B/H OPER <u>B. Allen</u>	<u>16</u>
TRAINER	

CHARGEABLE EQUIPMENT	HRS
TRUCK W/ TOOLS <u>33732</u>	<u>16</u>
BACKHOE <u>89019</u>	<u>16</u>
DUMPTRUCK <u>Crawford II</u>	<u>16</u>
COMPRESSOR	
CRASH TRUCK/Hours <u>33511</u>	<u>16</u>
CRANE TRUCK/Hours	
ARROW BOARD/Hours	
HOE RAM/Hours	
TRENCHER/Hours	
SM. MISSILE SHOT/Hours	
LG. MISSILE SHOT/Hours	
STEEL PLATES/Hours	
<u>Lewis Casby</u>	
SIGNED	

1600 Arrived on job site. Set out cones + signs. Rechecked Circuit on Class I Gas leaks. 245# was on site when we arrived. 2 gases was marked. One over 4" I.P. main + one was over 6" I.P. main. We dug hole over 6" I.P. main. found pipe. cleaned pipe off - no leaks in hole. Drove back hit a joint. cut another hole. 5b45 exposing 6" I.P. main. cleaned main off. found 6" mech joint with dry dirt. cleaned joint off. Tighten Bolts. Soap checked. No leaks. Both holes. Dug another 5b45 hole over 4" I.P. main. found pipe. cleaned pipe off. found 4" mechanical joint. cleaned joint off. Tighten Bolts. Dug another hole over 6" main. picked up gas. cut another hole over 6" I.P. main. found 6" mechanical joint looking. Tighten joint up. Soap checked. No leaks. Rashed bolts. Both filled holes. picked up signs + cones. Arrived at H&M shop 0800

Attachment D: Leak 238910, Continued

Our night crew inspector #240 checked on this work at 16:45 pm of 9/26/08 and noted gas was still in the sidewalk

DAILY WORK REPORT

Contractor : _____

No. of Men _____

Date : 9-26-08

Locations

Supervisor : D Presta

Unit No. 240

H = Henrico

C = Chesterfield

R = Richmond

TIME		DESCRIPTION OF WORK	PAVING REQUIRED	CODE
Arrival	H	Shop		CODE
Departure	C			Ticket #
Map Page #	R			Ticket #
Arrival	H	Durham & Cummins met 245 and night crew dug up area marked by drill crew no leak had crew re-drill found 50% in the intersection dug up seal joint didn't get gas out of sidewalk had crew re-drill dug up another area marked found 20% gas in street dug up seal joint didn't get gas out of sidewalk. drilled some more found 70-65-40 gas in drill holes gas still in sidewalk.		CODE
Departure	C			Ticket #
Map Page #	R			Ticket #
Arrival	H	Nelson St & Campbell Ave met SW on gas leak found 30%		CODE
Departure	C			Ticket #
Map Page #	R			Ticket #

Attachment D: Leak 238910, Continued

Our Inspector #240 noted leak was stopped and gas was clear from the sidewalk in the early morning hours of 9/27/08.

DAILY WORK REPORT			PAVING REQUIRED	
Contractor : _____		No. of Men _____	Date : <u>9-27-2008</u>	
Supervisor : <u>D. Probst</u>		Unit No. <u>240</u>	Locations H = Henrico C = Chesterfield R = Richmond	
TIME		DESCRIPTION OF WORK		
Arrival	H			CODE
2000				
Departure	C			
Map Page #	R			Ticket #
Arrival	H			CODE
Departure	C			
7:27				
Map Page #	R			Ticket #
Arrival	H			CODE
Departure	C			
Map Page #	R			Ticket #
Arrival	H			CODE
Departure	C			
Map Page #	R			Ticket #
Arrival	H			CODE
Departure	C			
Map Page #	R			Ticket #
Arrival	H			CODE
Departure	C			
Map Page #	R			Ticket #
Arrival	H			CODE
Departure	C			
Map Page #	R			Ticket #
Arrival	H			CODE
Departure	C			
Map Page #	R			Ticket #

Purchased a Cummins worked
 with night crew on
 gas leak dug up and
 found joint leaking re
 surge still found readings
 dug up another joint
 and tighter stop leak
 and gas was clear
 from side walk.

ATTACHMENT E

Leak # 562586

Allegation: This was a grade 1 leak reported on 1/7/09 and not repaired until 1/9/09.

Actual Fact: This leak was downgraded to a Grade II leak on 1/7/09 and repaired on 1/9/09.

Our Inspector (unit 242) arrived at this Grade I leak at 13:28 pm on 1/7/09. The leak was classified as a Grade I since $\geq 80\%$ LEL was measured in a manhole (90% LEL)

A Henkels and McCoy (H&M) crew #4 arrived to begin the bar holing (drilling) process.

The H&M crew #4 was still on the job at 21:30 when our inspector (unit 245) recorded the following in his daily work report:

“90% LEL in Sewer man hole. Had crew drill out the 12” CI ...main at bottom of the hill. Readings drop to 7% LEL. Downgraded to Class II.”

The H&M crews returned on 1/8/09 and 1/9/09 to continue work on this Grade II leak. The main was 9-1/2 feet deep. A mechanical joint on a 12” CI main was tightened to repair the leak on 1/9/09.

Attachment E: Leak 562586, Continued

CITY OF RICHMOND

LEAKAGE INSPECTION - LOCATION REPORT
 RELOCATION ORDER

LEAK #: 562586
 DATE REPORTED: 11-2-09
 TIME REPORTED: _____
 TIME DISPATCHED: 1314
 TIME ARRIVED: 1328
 REPORTED BY: _____
 DPU S/O #: _____
 MIU REPAIR TICKET #: A-900700999
 DATE RE-CHECKED: _____

ADDRESS: 2407 Creighton Rd
 CROSS STREETS: N 78th 1 Dent End
 CITY/COUNTY: City of Richmond
 MAP PAGE: 316 D-5 23 NE
 LEAK INVESTIGATOR: D. B. G. 242

DPU LEAK LOCATION SITE DATA							
DETECTED BY	COLLECTING	PROBABLE SOURCE	SOIL	VENTED C.G.I. TEST	PRESSURE	SURFACE	PIPE & SIZE
<input type="checkbox"/> Flame Pack	<input type="checkbox"/> In Building	<input checked="" type="checkbox"/> Main	<input type="checkbox"/> Rock	<input checked="" type="checkbox"/> Gas %	<input type="checkbox"/> Low	<input type="checkbox"/> Lawn	<input type="checkbox"/> Steel
<input type="checkbox"/> Visual/Vegetation	<input type="checkbox"/> Near Bldg.	<input type="checkbox"/> Service	<input type="checkbox"/> Chinders	<input checked="" type="checkbox"/> L.E.L. % <u>90%</u>	<input checked="" type="checkbox"/> I.P.	<input type="checkbox"/> Soft	<input type="checkbox"/> Plastic
<input checked="" type="checkbox"/> Combustible Meter	<input checked="" type="checkbox"/> Man Hole	<input type="checkbox"/> Service Tap	<input checked="" type="checkbox"/> Clay	<input type="checkbox"/> P.P.M.	<input type="checkbox"/> High	<input checked="" type="checkbox"/> Paved	<input checked="" type="checkbox"/> Cast Iron <u>12"</u>
<input type="checkbox"/> Odor Complaint	<input type="checkbox"/> In Soil	<input type="checkbox"/> Valve	<input type="checkbox"/> Loam	<input type="checkbox"/> Negative		<input type="checkbox"/> Other	<input type="checkbox"/> Ductile Iron
<input type="checkbox"/> Other Dig-in	<input type="checkbox"/> In Air	<input type="checkbox"/> Motor Set	<input type="checkbox"/> Sand				<input type="checkbox"/> Other
<input type="checkbox"/> Other	<input type="checkbox"/> Other	<input type="checkbox"/> Other	<input type="checkbox"/> Other				

REMARKS - VEGETATION DAMAGE
*Need crew to drill over main
 & services found globe to manhole and globe
 to install man hole pulled lids*

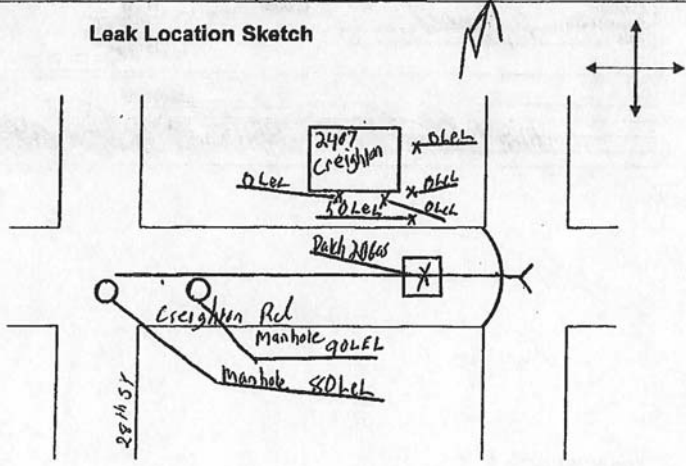
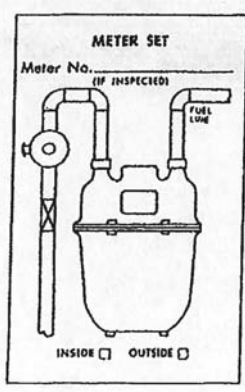
AREA LOCATION: COMMERCIAL INDUSTRIAL RESIDENTIAL RURAL

LEAK LOCATION REPORTING DATA					
CLASSIFICATION	LEAK LOCATED	LOCATED ON	LOCATED AT	FACILITY TYPE & SIZE	PIPE TYPE
<input checked="" type="checkbox"/> Grade 1	<input type="checkbox"/> Above Ground	<input type="checkbox"/> Valve	<input type="checkbox"/> Meter Assembly	<input checked="" type="checkbox"/> Main <u>12"</u> JPS/CTS	<input type="checkbox"/> Bare Steel
<input type="checkbox"/> Grade 2	<input checked="" type="checkbox"/> Below Ground	<input checked="" type="checkbox"/> Pipe	<input type="checkbox"/> Odorizer	<input type="checkbox"/> Service JPS/CTS	<input type="checkbox"/> Coated Steel
<input type="checkbox"/> Grade 3		<input type="checkbox"/> Stopcock	<input type="checkbox"/> Regulator Station	<input type="checkbox"/> Date Installed _____ JPS/CTS	<input type="checkbox"/> Ductile Iron
		<input type="checkbox"/> Fitting*	<input type="checkbox"/> Compressor Station		<input checked="" type="checkbox"/> Cast Iron
		<input type="checkbox"/> Joint**	<input type="checkbox"/> N/A		<input type="checkbox"/> Galvanized
		<input type="checkbox"/> Gauge Line			<input type="checkbox"/> Copper
		<input type="checkbox"/> Riser			<input type="checkbox"/> HDPE
		<input type="checkbox"/> Regulator			<input type="checkbox"/> Other
		<input type="checkbox"/> Meter			
		<input type="checkbox"/> Orf			
		<input type="checkbox"/> Tap			

* TYPE OF LEAKING FITTING (IF LOCATED ON Fitting)

<input type="checkbox"/> Mechanical Service Tee	<input type="checkbox"/> Threadlets/Weldlets/Socketlets	<input type="checkbox"/> Coupling - Metal	<input type="checkbox"/> Meter Swivel
<input type="checkbox"/> Heat Fusion Service Tee	<input type="checkbox"/> Plug/Caps	<input type="checkbox"/> Coupling - Plastic	<input type="checkbox"/> Union
<input type="checkbox"/> Electrofusion Service Tee	<input type="checkbox"/> Elbow	<input type="checkbox"/> Transition Fitting	<input type="checkbox"/> Insulator
<input type="checkbox"/> Welded Service Tee	<input type="checkbox"/> Nipple	<input type="checkbox"/> Split Sleeve	
<input type="checkbox"/> Saddle Fitting	<input type="checkbox"/> Tee	<input type="checkbox"/> Leak Clamp	
<input type="checkbox"/> Service Tee Cap	<input type="checkbox"/> Diaphragm	<input type="checkbox"/> Bell Joint Clamp	
<input type="checkbox"/> Anodeless Meter Riser	<input type="checkbox"/> Other Meter Riser	<input type="checkbox"/> Other (Explain)	

Leak Location Sketch



Attachment E: Leak 562586, Continued

DPU Inspector 242 visits H&M Crew #4 working on Grade 1 leak

DAILY WORK REPORT

Contractor : _____

No. of Men 23

Date : 7-7-08

Locations

Supervisor : David Eason

Unit No. 242

H = Henrico
C = Chesterfield
R = Richmond

TIME		DESCRIPTION OF WORK	PAVING REQUIRED	CODE
Arrival	H	shop		057-967
08:00				
Departure	C			
Map Page #	(R)			1002-8700 Ticket #
Arrival	(H)	1429 Farley Ct Hade To meet 466 on GAS Leak on Riser Found Riser with Corrosion Holds and Hade To	D 9.58 H-m crew 4 CLASS 1	CODE
10:38				
Departure	C			
Map Page #	R			Ticket #
Arrival	H	Lot c/k Box and cut off class 1 1428 Farley Ct need To Dig up Riser and Raise Kwame Pack House and need meter Protection	Riser corrosion Holds	CODE
Departure	C			
11:45				
Map Page #	R			Ticket #
Arrival	(H)	Found no Leak		CODE
Departure	C			
Map Page #	(R)			
Arrival	H	2407 Creighton Rd. Hade To meet s/m and Barest + sewer	CLASS 1 H-m crew 4	CODE
13:28				
Departure	C			
Map Page #	R			1002-8900 Ticket #
Arrival	H	in manhole inent 80% LEL Pull Two TOY OFF CALL 245+230 lead H-m crew 4 lead To Prillout		CODE
Departure	C			
Map Page #	R			
Arrival	H	12" LI GAS main CLASS 1 Found NO GAS at 'Houses' in B/K and RE-c/k Two Manholes Top off 1% LEL		CODE
Departure	C			
Map Page #	R			
Arrival	H			CODE
Departure	C			
Map Page #	R			Ticket #

Attachment E: Leak 562586, Continued

DPU Inspector 245 visits H&M crew #4 still working the leak. Additional drill holes made near the main. Readings drop to 7% LEL in manhole due to venting. Leak Downgraded to Grade II at 21:30

DAILY WORK REPORT

Contractor: _____ No. of Men _____ Date: 1/7/09 Locations
 Supervisor: Palmer Rogers Unit No. 245th H = Henrico
 C = Chesterfield
 R = Richmond

TIME		DESCRIPTION OF WORK	PAVING REQUIRED	
Arrival	H			
0730				
Departure	C	Office Meeting Location for H&M Crews		CODE
		North side Auto Shop		051-964
Map Page #	R			1002-8700
				Ticket #
Arrival	H			
11:00 AM		Meeting With H&M + 207 th		CODE
Departure	C			
Map Page #	R			
Arrival	H			
11:30 AM		Crew # 1429 Farley Ct - Class I - 242 th		Ticket #
Departure	C	Drill the 1 1/2" hole in 2" pipe		CODE
Map Page #	R	Installed 1 1/8" Ex. Flow Valve. Also tested with soap for 5 min		Ticket #
Arrival	H			
Departure	C			CODE
Map Page #	R			
Arrival	H			
2:00 PM		Crew # 6 th 219 N 1 st St - Class I - 241 st		Ticket #
Departure	C	Gas in 2" man hole. 7% gas. Had crew Dig out the 2" gas main. Turned leak over Night crew		CODE
Map Page #	R			Ticket #
Arrival	H			
18:00 PM		Crew # 4 th 2407 Creighton RD - Class I - 242 th		CODE
Departure	C	90% LEL in Sewer man hole. Had crew Dig out the 12" CI main		Ticket #
Map Page #	R	at Bottom of the hole Readings drop to 7% LEL. Down graded to Class II		CODE
Arrival	H			
Departure	C			Ticket #
Map Page #	R			CODE
Arrival	H			
Departure	C			Ticket #
Map Page #	R			CODE
				Ticket #

Attachment E: Leak 562586, Continued

H&M returns to work the leak as a grade II leak on 1/8/09

HENKELS & M'COY Inc.		DAILY WORK REPORT		DATE <u>1-8-09</u>	
NO. <u>05-0543001-09</u>	APPROVED BY <u>KD</u>	CODE NUMBERS		HRS	
COMPANY <u>DPU</u>	OFFY <u>Richmond</u>	05196410028700		<u>3</u>	
LOCATION / ADDRESS: <u>2407 Creighton Rd</u>		4301012			
PAVING CODE: <u>05 96410028700</u>		GAS MAP PAGE NO. <u>23 NE</u>		SERVICE ORDER NO. <u>NO.</u>	
H	ASPHALT	CONCRETE	DIRT/GRASS/SEED	GRADE OF LEAK: <u>2</u>	
C	<u>24x45 5x5</u>			JOB IS COMPLETE <input type="checkbox"/>	
R				JOB IS INCOMPLETE <input type="checkbox"/>	
<input checked="" type="checkbox"/> MAIN REPAIRED	<input checked="" type="checkbox"/> CAST IRON	SIZE <u>12"</u>	<input type="checkbox"/> SERVICE REPAIRED	EXISTING PIPE	
<input type="checkbox"/> SLEEVE INSTALLED	<input type="checkbox"/> STEEL		<input type="checkbox"/> SERVICE REPLACED	<input type="checkbox"/> GALVANIZED	
<input type="checkbox"/> HUBS SEALED	<input type="checkbox"/> PLASTIC		<input type="checkbox"/> MAIN TO CC	<input type="checkbox"/> STEEL	
<input checked="" type="checkbox"/> JOINT TIGHTENED	<input type="checkbox"/> GALVANIZED		<input type="checkbox"/> CC TO METER	<input type="checkbox"/> PLASTIC	
<input type="checkbox"/> COUPLING TIGHTENED			<input type="checkbox"/> 1/2" PE	<input type="checkbox"/> CAST IRON	
<input type="checkbox"/> VALVE			<input type="checkbox"/> 1" PE	<input type="checkbox"/> COPPER	
			<input type="checkbox"/> 2" PE	<input type="checkbox"/> RELOCATED	
LEAK PINPOINTED	# OF HOLES DRILLED		PERSONNEL		
<input checked="" type="checkbox"/> YES <input type="checkbox"/> NO	DESCRIPTION _____		SUPT.	HRS	
SHORING BOX USED	PSI _____ MIN.		ASST. SUPT.		
<input checked="" type="checkbox"/> YES <input type="checkbox"/> NO	AIR TESTED _____		FOREMAN <u>B. Howard</u>	<u>8</u>	
TAILBOARD MEETING	TOPIC _____		ASST. FORE. <u>M. Jones</u>	<u>8</u>	
<input type="checkbox"/> YES <input type="checkbox"/> NO			LABORER #1 <u>D. Gracia</u>	<u>8</u>	
<p><u>Arrived on job site, set up traffic control, began utility machine over. found two Macla Areas dug with APAs both pipes were over 9 feet deep. put shoring box in first hole went in and hand dug cleaned main, found nothing. knock bar with WAYS, picked up small rocks going towards dead end, back filled with gravel and MC3 tampered with road app. dug second hole 5x5 and 4 1/2 feet deep, put shoring box in hole went in and hand cleaned main, found mechanical joint, SNAP checked and found small fizz, tighten no more fizz. packed nuts and bolts. knock bar back. checked with ins. cable, picked up nothing. back filled hole with gravel and MC3. tampered road app. job complete 8:00 AM to 4:30 PM</u></p>			LABORER #2		
			FLOATER		
			D/T OPER <u>T. Washington</u>	<u>8</u>	
			D/T OPER		
			B/H OPER <u>Hatchin</u>	<u>8</u>	
			B/H OPER		
			TRAINER		
			CHARGEABLE EQUIPMENT		HRS
			TRUCK W/ TOOLS <u>33732</u>	<u>8</u>	
			BACKHOE <u>89013</u>	<u>8</u>	
DUMPTRUCK <u>5657</u>	<u>8</u>				
COMPRESSOR					
CRASH TRUCK/Hours					
CRANE TRUCK/Hours					
ARROW BOARD/Hours					
HOE RAM/Hours					
TRENCHER/Hours					
SM. MISSILE SHOT/Hours					
LG. MISSILE SHOT/Hours					
STEEL PLATES/Hours					
SIGNED <u>B. Howard</u>					

Attachment E: Leak 562586, Continued
H&M repairs the grade II leak on 1/9/09

HENKELS & MCCOY, Inc. DAILY WORK REPORT

NO. 08-054395-09 APPROVED BY [Signature] DATE 1-9-09

COMPANY DPU CITY Richmond CODE NUMBERS 05196410028700 HRS 8
4301012
4301013 A

LOCATION / ADDRESS: 2407 Creighton rd PAVING CODE: 03196410028700 GAS MAP PAGE NO. 25 NE SERVICE ORDER NO. NO

H	ASPHALT	CONCRETE	DIRT/GRASS/SEED	GRADE OF LEAK: <u>2</u>
C	<u>6x6</u>			JOB IS COMPLETE <input type="checkbox"/>
<u>(R)</u>				JOB IS INCOMPLETE <input checked="" type="checkbox"/>

MAIN REPAIRED
 SLEEVE INSTALLED
 HUBS SEALED
 JOINT TIGHTENED
 COUPLING TIGHTENED
 VALVE

CAST IRON 12"
 STEEL
 PLASTIC
 GALVANIZED

SERVICE REPAIRED
 SERVICE REPLACED
 MAIN TO CC
 CC TO METER
 1/2" PE
 1" PE
 2" PE

EXISTING PIPE
 GALVANIZED
 STEEL
 PLASTIC
 CAST IRON
 COPPER

OTHER
 RELOCATED

LEAK PINPOINTED
 YES NO DESCRIPTION drilled 8 holes # OF HOLES DRILLED 8

SHORING BOX USED
 YES NO AIR TESTED _____ PSI _____ MIN.

TAILBOARD MEETING
 YES NO TOPIC _____

Arrived on Job Site, set up traffic control
looked Utility Markings over, drilled 8 holes
Checked with indicator and drilled up 96% gas
in one area, purged. checked again with indicator
picked up 75% gas in same hit spot. Marked
and cut out 6x6 dug down 9/8 feet. Air lanced
until main was found, put shoring in we went
in and hand chipped around main, cut small
gas vent, found joint. Soap checked, joint blowing
REA gas, tighten soap checked, no more leak
Restored nuts and bolts, back filled both
ways picked up 2% and 4% gas. back filled
hole with gravel and MC3. tamper both
REA gas. Cleaned up area, picked up traffic
control. Job complete

PERSONNEL		HRS
SUPT.		
ASST. SUPT.		
FOREMAN	<u>B. Howard</u>	<u>8</u>
ASST. FORE.	<u>M. Jones</u>	<u>8</u>
LABORER #1	<u>D. Garcia</u>	<u>8</u>
LABORER #2	<u>M. Castro</u>	<u>8</u>
FLOATER		
D/T OPER	<u>T. Washington</u>	<u>8</u>
D/T OPER		
B/H OPER	<u>Hatchen</u>	<u>8</u>
B/H OPER		
TRAINER		

CHARGEABLE EQUIPMENT		HRS
TRUCK W/ TOOLS	<u>33732</u>	<u>8</u>
BACKHOE	<u>89013</u>	<u>8</u>
DUMPTRUCK	<u>3657</u>	<u>8</u>
COMPRESSOR		
CRASH TRUCK/Hours		
CRANE TRUCK/Hours		
ARROW BOARD/Hours		
HOE RAM/Hours		
TRENCHER/Hours		
SM. MISSILE SHOT/Hours		
LG. MISSILE SHOT/Hours		
STEEL PLATES/Hours		

SIGNED B. Howard

Form # 004 3/06