APPENDIX N SEWER LINE VIDEO SURVEY REPORT

RVAAP Load Line 4 Phase II RI Final	
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Science Applications International Corporation

An Employee-Owned Company

September 5, 2002

Mr. Glen Beckham U.S. Army Corps of Engineers, Louisville District ATTN: CELRL-PM-M 600 Martin Luther King, Jr. Place P.O. Box 59 Louisville, Kentucky 40202-0059

Reference: Contract No. DACA 62-00-D-0001, Delivery Order No. CY06

Contract No. DACA 27-97-D-0025, Delivery Order No. 0003

Contract No. F44650-99-0007, ECAS 186

Subject: Storm and Sanitary Sewer Video Survey Data for Phase II Remedial

Investigations (RIs) at Load Lines 1, 2, 3, 4 and 12

Dear Mr. Beckham:

Enclosed for your records are video tape logs and paper copies of the project logs for the storm and sanitary sewer camera surveys conducted at Load Lines 1, 2, 3, 4, and 12. In addition, data provided for Load Lines 2, 3, and 4 includes a compact disk containing digital photographic records of the camera surveys. These surveys were performed as part of the Phase II RI field investigations at each of the facilities. Transmittal of these data completes a key action item derived from the July 17, 2002, comment response meeting for the draft Phase II RI report for Load Line 1. Science Applications International Corporation appreciates the opportunity to provide these services to the U.S. Corps of Engineers, Louisville District and RVAAP.

If you have questions or comments, please feel free to contact me at (865) 481-4614.

Sincerely,

SCIENCE APPLICATIONS INTERNATIONAL CORPORATION

Kevin Jago

Project Manager

cc: John Jent - USACE

cc w/o Enclosure: Ike Diggs - SAIC

Mark Patterson – OSC Martha Turpin – SAIC Bob Whelove – OSC

Project File SAIC CRF

	DATE	AREA	STREET	FROM MANHOLE	TO MANHOLE	SECTION	PIPE SIZE	TAPE #
1 0	8/09/2001	Ravenna Army	Load Line 4	GA 17	East	51.39	12"	003
2 0	08/09/2001	Ravenna Army	Load Line 4	GA 17	West	51.69	12"	003
3 0	08/09/2001	Ravenna Army	Load Line 4	GA 17	North	28.93	18"	003
4 0	08/09/2001	Ravenna Army	Load Line 4	GA 17	South	50.4	18"	003
5 0	08/09/2001	Ravenna Army	Load Line 4	Mh 10	South	174.76	18"	003
6 0	08/09/2001	Ravenna Army	Load Line 4	MH 9	South	104,28	18"	003
7 0	08/09/2001	Ravenna Army	Load Line 4	MH 15	West	175.56	24"	003
в о	08/09/2001	Ravenna Army	Load Line 4	MH 11	5	66.5	24"	003
9 0	08/09/2001	Ravenna Army	Load Line 4	5	7	14.91	24"	003
0 0	08/09/2001	Ravenna Army	Load Line 4	11	12	100.4	24"	003
0	08/09/2001	Ravenna Army	Load Line 2	D.A. 12	B-3	173.77	15"	004
2 0	08/09/2001	Ravenna Army	Load Line 2	D.B. 12	B-3	254.49	24"	004
3 0	08/09/2001	Ravenna Army	Load Line 3	E.H. 5	E.H. 4	117.7	12"	005
\$ 0	8/09/2001	Ravenna Army	Load Line 3	E.H. 4	E.H. 3	102,59	12"	005
5 0	8/09/2001	Ravenna Army	Load Line 3	E.H. 5	E.H. 6	102.79	12"	005
3 0	8/09/2001	Ravenna Army	Load Line 3	E.H. 6	E.H.7	2.88	12"	005
7 0	8/09/2001	Ravenna Army	Load Line 3	409	West	46.03	10"	005
3 0	8/09/2001	Ravenna Army	Load Line 3	409	East	13.72	10"	005
9 0	08/09/2001	Ravenna Army	Load Line 4	W6	W5	213.33	8"	003
0	8/09/2001	Ravenna Army	Load Line 4	W5	W4	30.52	8"	003
0	08/09/2001	Ravenna Army	Load Line 4	W3-1	North	4	8"	003
2 0	8/09/2001	Ravenna Army	Load Line 4	E4	Southwest	144.54	8"	003
3 0	8/09/2001	Ravenna Army	Load Line 4	E4	North	113.03	8"	003

2138.21 FT



TELEVAC ENVIRONMENTAL 7611 EASY ST MASON OH, 45040

Tel: (513) 398-4521, Fax: (513) 398-5628

INSPECTION REPORT

DATE: 08/09/2001	work order:	WEATHER: SUNNY, DRY	OPERATOR: P.KELLUM	SECTION NR: 57	SECTION NAME
PRESENT:	VEHICLE:	CAMERA: PAN/TILT	PRESET:	CLEANED: NO	RATE:

003

CITY: Ravenna MAP #1:

TV'D LGTH:

STREET: Load Line 4

MAP #2:

MH:

51.39 FT **GA 17**

LOCALE: EASEMENT

TAPE #:

MH:

East

INSPECT REASON:

OTHER

PIPE SIZE:

12"

SECTION TYPE:

STORMWATER

MATERIAL:

VCP

JT LGTH:

AREA:

Ravenna Army Ammunition Plant

LINING: RSRVD:

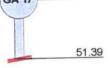
REMARK:

1:1000POSITION

OBSERVATION

0.00 \$1 **GA 17**

inspection begins at downstream manhole, START



inspection abandoned, END Seen Enough



7611 EASY ST MASON OH, 45040 Tel: (513) 398-4521, Fax: (513) 398-5628

INSPECTION REPORT

DATE: 08/09/2001	work order:	WEATHER: SUNNY, DRY	OPERATOR: P.KELLUM	SECTION NR: 58	SECTION NAME
PRESENT:	VEHICLE: 811	CAMERA: PAN/TILT	PRESET:	CLEANED: NO	RATE:

003

CITY:

Ravenna

MAP #1:

TV'D LGTH:

51.69 FT

STREET: Load Line 4 LOCALE: EASEMENT MAP #2: TAPE #:

MH: MH:

GA 17 West

INSPECT REASON:

OTHER

PIPE SIZE:

12"

SECTION TYPE:

STORMWATER

MATERIAL:

VCP

AREA:

Ravenna Army Ammunition Plant

LINING: RSRVD: JT LGTH:

REMARK:

1:1000POSITION

OBSERVATION

0.00 \$1 **GA 17**

inspection begins at downstream manhole, START

51.69 FT //

51.69

inspection abandoned, END Seen Enough



7611 EASY ST

MASON OH, 45040 Tel: (513) 398-4521, Fax: (513) 398-5628

INSPECTION REPORT

DATE: 08/09/2001	work order:	WEATHER: SUNNY, DRY	OPERATOR: P.KELLUM	SECTION NR: 59	SECTION NAME
PRESENT:	VEHICLE: 811	CAMERA: PAN/TILT	PRESET:	CLEANED: NO	RATE:

CITY: Ravenna

MAP #1:

TV'D LGTH:

28.93 FT

STREET: Load Line 4

MAP #2: TAPE #: MH:

GA 17

LOCALE: EASEMENT

003

MH:

North

INSPECT REASON:

OTHER

PIPE SIZE:

SECTION TYPE:

STORMWATER

MATERIAL: LINING:

18" VCP

JT LGTH:

AREA:

Ravenna Army Ammunition Plant

RSRVD:

REMARK:

1:1000POSITION

OBSERVATION

0.00 S1 **GA 17** 10.34 28.93 North

inspection begins at downstream manhole, START

Circumferential Crack, from 02 to 04 o'clock

inspection ends at upstream manhole, END







TELEVAC ENVIRONMENTAL 7611 EASY ST MASON OH 45040

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50.4 FT

INSPECTION REPORT

DATE: 08/09/2001	work order:	WEATHER: SUNNY, DRY	OPERATOR: P.KELLUM	SECTION NR: 60	SECTION NAME
PRESENT:	VEHICLE:	CAMERA: PAN/TILT	PRESET:	CLEANED: NO	RATE:

 CITY:
 Ravenna
 MAP #1:
 TV'D LGTH:

 STREET:
 Load Line 4
 MAP #2:
 MH:

 STREET:
 Load Line 4
 MAP #2:
 MH:
 GA 17

 LOCALE:
 EASEMENT
 TAPE #:
 003
 MH:
 South

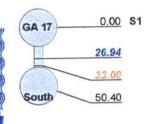
INSPECT REASON: OTHER PIPE SIZE: 18"
MATERIAL: VCP JT LGTH:

SECTION TYPE: STORMWATER MATERIAL: VCP JT LGTH:
LINING:
RRAYEA: Ravenna Army Ammunition Plant RSRVD:

AREA:

1:1000POSITION

OBSERVATION



inspection begins at upstream manhole, START

Longitudinal Crack, at 03 o'clock

Multiple Fractures from 03 to 09 o'clock

inspection ends at downstream manhole, END MH 10



26.94 FT //



33 FT //



50.4 FT

Raver



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INSPECTION REPORT

DATE: 08/09/2001	work order:	WEATHER: SUNNY, DRY	OPERATOR: P.KELLUM	SECTION NR: 61	SECTION NAME
PRESENT:	VEHICLE:	CAMERA: PAN/TILT	PRESET:	CLEANED: NO	RATE:

Ravenna CITY:

STREET: Load Line 4

LOCALE: EASEMENT

MAP #1:

MAP #2: TAPE #:

003

TV'D LGTH:

174.76 FT

Mh 10

South

INSPECT REASON:

OTHER

SECTION TYPE:

STORMWATER

MATERIAL: LINING:

PIPE SIZE:

18" VCP

MH:

MH:

JT LGTH:

AREA:

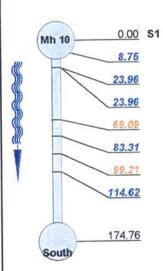
Ravenna Army Ammunition Plant

RSRVD:

REMARK:

1:1000POSITION

OBSERVATION



inspection begins at upstream manhole, START

Circumferential Crack, from 09 to 12 o'clock

Longitudinal Crack, at 06 o'clock

Longitudinal Crack, at 10 o'clock

Multiple Fractures from 09 to 11 o'clock

Multiple Cracks, from 06 to 12 o'clock

Hole in pipe at 09 o'clock

Multiple Cracks, from 12 to 06 o'clock

inspection ends at downstream manhole, END



8.75 FT //



23.96 FT //





69.09 FT //





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INSPECTION REPORT

DATE: 08/09/2001	work order:	WEATHER: SUNNY, DRY	OPERATOR: P.KELLUM	SECTION NR: 62	SECTION NAME:
PRESENT:	VEHICLE:	CAMERA: PAN/TILT	PRESET:	CLEANED: NO	RATE:

Ravenna MAP #1: CITY:

MAP #2:

TV'D LGTH: 104.28 FT MH: MH 9

STREET: Load Line 4 LOCALE: EASEMENT

003 TAPE #:

MH:

South

INSPECT REASON:

OTHER

PIPE SIZE:

18"

SECTION TYPE:

STORMWATER

MATERIAL:

JT LGTH: VCP

AREA:

Ravenna Army Ammunition Plant

LINING: RSRVD:

REMARK:

1:1000POSITION

OBSERVATION

0.00 \$1 MH 9 17.60 104.28

inspection begins at upstream manhole, START

Multiple Cracks, from 09 to 03 o'clock





104.28 FT //

inspection abandoned, END Too slick for camera to travel!!!!



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INSPECTION REPORT

					SECTION NAME
DATE: 08/09/2001	work order:	WEATHER: SUNNY, DRY	OPERATOR: P.KELLUM	SECTION NR: 63	SECTION NAME
		CAMERA:	PRESET:	CLEANED:	RATE:
PRESENT:	VEHICLE: 811	PAN/TILT	T NEOLT:	NO	160

003

CITY:

Ravenna

STREET: Load Line 4

LOCALE: EASEMENT

MAP #1:

MAP #2: TAPE #: TVD LGTH: MH:

175.56 FT MH 15

MH:

West

INSPECT REASON:

OTHER

STORMWATER

PIPE SIZE: MATERIAL: 24" VCP

JT LGTH:

SECTION TYPE: AREA:

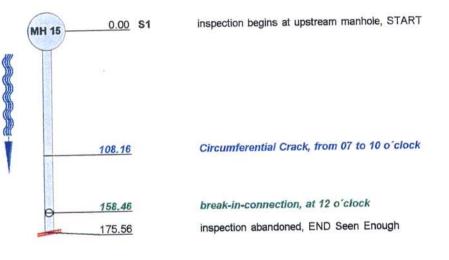
LINING: Ravenna Army Ammunition Plant

RSRVD:

REMARK:

1:1000POSITION

OBSERVATION







158.46 FT //





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INSPECTION REPORT

				X 11-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1	
DATE: 08/09/2001	work order:	WEATHER: SUNNY, DRY	OPERATOR: P.KELLUM	SECTION NR: 64	SECTION NAME
	VELUOI E	CAMERA:	PRESET:	CLEANED:	RATE:
PRESENT:	VEHICLE: 811	PAN/TILT	TILOLI.	NO	0

003

CITY:

Ravenna

MAP #1:

TV'D LGTH:

STREET: Load Line 4

MAP #2:

MH:

66.5 FT

LOCALE: EASEMENT

TAPE #:

MH 11 5

INSPECT REASON:

OTHER

PIPE SIZE:

MH: 24"

SECTION TYPE:

STORMWATER

MATERIAL:

VCP

LINING:

JT LGTH:

AREA:

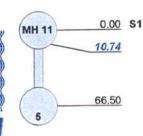
Ravenna Army Ammunition Plant

RSRVD:

REMARK:

1:1000POSITION

OBSERVATION



inspection begins at downstream manhole, START

Longitudinal Crack, at 06 o'clock



inspection ends at upstream manhole, END



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INSPECTION REPORT

DATE: 08/09/2001	work order:	WEATHER: SUNNY, DRY	OPERATOR: P.KELLUM	SECTION NR: 65	SECTION NAME
PRESENT:	VEHICLE: 811	CAMERA: PAN/TILT	PRESET:	CLEANED: NO	RATE: 310

14.91 FT TV'D LGTH: MAP #1: Ravenna CITY:

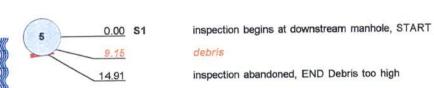
5 MH: MAP #2: STREET: Load Line 4 7 MH: 003 TAPE #: LOCALE: EASEMENT

24" PIPE SIZE: OTHER INSPECT REASON: JT LGTH: VCP MATERIAL:

STORMWATER SECTION TYPE: LINING: Ravenna Army Ammunition Plant RSRVD:

AREA: REMARK:

OBSERVATION 1:1000POSITION







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INSPECTION REPORT

DATE: 08/09/2001	work order:	WEATHER: SUNNY, DRY	OPERATOR: P.KELLUM	SECTION NR: 66	SECTION NAME
PRESENT:	VEHICLE:	CAMERA: PAN/TILT	PRESET:	CLEANED: NO	RATE: 470

CITY	Ravenna	MAP #1:		TV'D LGTH:	100.4 FT
CITY:	Load Line 4	MAP #2:		MH:	11
190000000000000000000000000000000000000	EASEMENT	TAPE #:	003	MH:	12

OTHER INSPECT REASON:

STORMWATER

PIPE SIZE: MATERIAL: LINING:

24" VCP

JT LGTH:

SECTION TYPE: AREA:

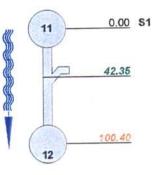
Ravenna Army Ammunition Plant

RSRVD:

REMARK:

1:1000POSITION

OBSERVATION



inspection begins at upstream manhole, START

break-in-connection, at 10 o'clock

debris Large rock!!!!!!1



42.35 FT //



100.4 FT //



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INSPECTION REPORT

DATE: 08/09/2001	work order:	WEATHER: SUNNY, DRY	OPERATOR: P.KELLUM	SECTION NR: 75	SECTION NAME
PRESENT:	VEHICLE:	CAMERA: PAN/TILT	PRESET:	CLEANED: NO	RATE: 1080

CITY:

Ravenna

MAP #1:

TV'D LGTH:

213.33 FT

MH:

W6

LOCALE: EASEMENT

STREET: Load Line 4

MAP #2: TAPE #:

003

MH:

W5

INSPECT REASON:

OTHER

PIPE SIZE: MATERIAL: 8"

SECTION TYPE:

STORMWATER

LINING:

VCP JT LGTH:

AREA:

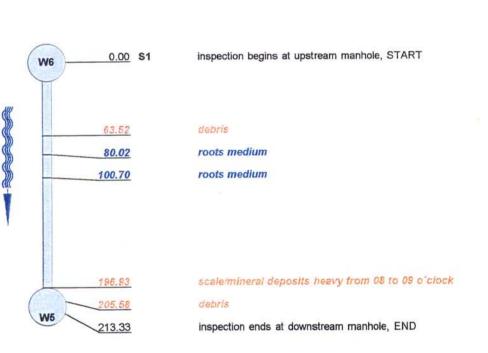
Ravenna Army Ammunition Plant

RSRVD:

REMARK:

1:1000POSITION

OBSERVATION





80.02 FT //



100.7 FT //



196.93 FT //



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INSPECTION REPORT

DATE: 08/09/2001	work order:	WEATHER: SUNNY, DRY	OPERATOR: P.KELLUM	SECTION NR: 76	SECTION NAME
PRESENT:	VEHICLE: 811	CAMERA: PAN/TILT	PRESET:	CLEANED: NO	RATE: 130

003

CITY:

Ravenna

MAP #1:

TV'D LGTH:

MAP #2:

MH:

30.52 FT

STREET: Load Line 4

W5

LOCALE: EASEMENT

TAPE #:

MH:

W4

INSPECT REASON:

STORMWATER

OTHER

PIPE SIZE: MATERIAL: 8" VCP

JT LGTH:

SECTION TYPE:

Ravenna Army Ammunition Plant

LINING: RSRVD:

AREA:

REMARK:

1:1000POSITION

OBSERVATION

0.00 \$1 W5 12.92 30.52

inspection begins at upstream manhole, START

corrosion light

camera blocked, inspection abandoned, END could not pass heavy deposits



12.92 FT //



30.52 FT //

PAGE: 2



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INSPECTION REPORT

DATE: 08/09/2001	work order:	WEATHER: SUNNY, DRY	OPERATOR: P.KELLUM	SECTION NR: 77	SECTION NAME
PRESENT:	VEHICLE:	CAMERA: PAN/TILT	PRESET:	CLEANED: NO	RATE:

CITY: Ravenna MAP #1:

TV'D LGTH:

STREET: Load Line 4

MAP #2:

4 FT W3-1

LOCALE: EASEMENT

TAPE #:

003

MH: MH:

INSPECT REASON:

OTHER

PIPE SIZE:

North

SECTION TYPE:

STORMWATER

MATERIAL: LINING:

JT LGTH: VCP

AREA:

Ravenna Army Ammunition Plant

RSRVD:

REMARK:

1:1000POSITION

OBSERVATION

North

0.00 S1

inspection begins at downstream manhole, START



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INSPECTION REPORT

DATE:	work order:	WEATHER:	OPERATOR:	SECTION NR:	SECTION NAME
08/09/2001	AS MAKE BY CONTROLL CONTROL	SUNNY, DRY	P.KELLUM	78	
PRESENT:	VEHICLE:	CAMERA: PAN/TILT	PRESET:	CLEANED: NO	RATE: 830

CITY:

Ravenna

MAP #1:

TV'D LGTH:

STREET: Load Line 4

MAP #2:

MH:

144.54 FT E4

LOCALE: EASEMENT

TAPE #:

003

MH:

Southwest

INSPECT REASON:

OTHER

PIPE SIZE: MATERIAL:

VCP

SECTION TYPE:

STORMWATER

LINING:

JT LGTH:

AREA:

Ravenna Army Ammunition Plant

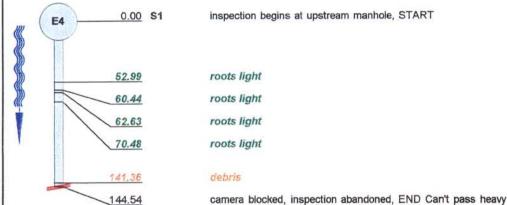
RSRVD:

REMARK:

1:1000POSITION

OBSERVATION

mud!



144.54





60.44 FT //



62.63 FT //





7611 EASY ST

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113.03 FT

North

MH:

INSPECTION REPORT

DATE: 08/09/2001	work order:	WEATHER: SUNNY, DRY	OPERATOR: P.KELLUM	SECTION NR: 79	SECTION NAME:
PRESENT:	VEHICLE:	CAMERA: PAN/TILT	PRESET:	CLEANED: NO	RATE: 620

003

TV'D LGTH: MAP #1: CITY: Ravenna

E4 MH: MAP #2: STREET: Load Line 4

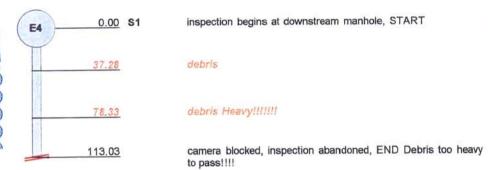
TAPE #: LOCALE: EASEMENT PIPE SIZE: OTHER INSPECT REASON:

MATERIAL: VCP JT LGTH: STORMWATER SECTION TYPE: LINING:

Ravenna Army Ammunition Plant AREA: RSRVD:

REMARK:

1:1000POSITION **OBSERVATION**





78.33 FT //

	DATE	AREA	STREET	FROM MANHOLE	TO MANHOLE	SECTION	PIPE SIZE	TAPE #
-		Ravenna Army	Load Line 3	E.B. 20	North	53.08	12"	002
1	08/08/2001	Ravenna Army	Load Line 3	E.B. 20	East	27.34	12 ⁿ	002
2	08/08/2001	Ravenna Army	Load Line 3	E.B 21	North	50.3	12"	002
3	08/08/2001	Ravenna Army	Load Line 3	E.B. 21	South	8.45	12"	002
4	08/08/2001	Ravenna Army	Load Line 3	E.B. 21	East	53.48	12"	002
5		Ravenna Army	Load Line 3	E.H. 13	North	52.99	12"	002
6	08/08/2001	Ravenna Army	Load Line 3	E.H 13	South	52.19	12"	002
-	08/08/2001	Ravenna Army	Load Line 3	E.H. 13	East	51.49	12"	002
8		Ravenna Army	Load Line 3	E.H. 13	East	9.64	24"	002
9	-	Ravenna Army	Load Line 3	E.H 13	West	12.43	24"	002
10		Ravenna Army	Load Line 3	E.B. 4	North	8.65	12"	002
11	08/08/2001		Load Line 3	E.B. 4	South	52.69	12"	002
12		Ravenna Army Ravenna Army	Load Line 3	419	South	54.87	8"	002
13			Load Line 3	419	East	51.39	8"	002
14	08/08/2001	Ravenna Army Ravenna Army	Load Line 3	424	West	39.47	8"	002
15		Ravenna Army	Load Line 3	424	South	51.39	8"	002
16		Ravenna Army	Load Line 3	404	West	51.79	10"	002
17			Load Line 3	404	East	51.2	10"	002
18		Ravenna Army Ravenna Army	Load Line 3	427	West	177.05	8"	002
19		-	Load Line 3	427	North	26.44	8"	002
20		Ravenna Army	Load Line 4	E2	Northeast	1	8"	003
21	21.00xy 35.5	Ravenna Army Ravenna Army	Load Line 4	E6	South	51	8"	003
22			Load Line 4	E6	East	10.44	8"	003
23		Ravenna Army	Load Line 4	C/B 13	West	25.85	8"	003
24		Ravenna Army	Load Line 4	C/B 13	East	52.19	8"	003
25	08/08/2001	Ravenna Army	Load Line 4					



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Tel: (513) 398-4521, Fax: (513) 398-5628

INSPECTION REPORT

DATE: 08/08/2001	work order:	WEATHER: SUNNY, DRY	OPERATOR: P.KELLUM	SECTION NR: 52	SECTION NAME
PRESENT:	VEHICLE:	CAMERA: PAN/TILT	PRESET:	CLEANED: NO	RATE:

003

CITY: Ravenna

STREET: Load Line 4

MAP #1:

TV'D LGTH:

1FT

LOCALE: EASEMENT

MAP #2: TAPE #:

MH: MH:

E2 Northeast

INSPECT REASON:

OTHER

PIPE SIZE: MATERIAL: STEEL

SECTION TYPE:

WASTEWATER

Ravenna Army Ammunition Plant

LINING: RSRVD:

JT LGTH:

AREA: REMARK:

1:1000POSITION

OBSERVATION

0.00 E2 1.00 inspection begins at upstream manhole

inspection abandoned, END too dirty to TV



7611 EASY ST

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INSPECTION REPORT

DATE: 08/08/2001	work order:	WEATHER: SUNNY, DRY	OPERATOR: P.KELLUM	SECTION NR: 53	SECTION NAME:
PRESENT:	VEHICLE:	CAMERA: PAN/TILT	PRESET:	CLEANED: NO	RATE: 360

CITY:

Ravenna

MAP #1:

TV'D LGTH:

51 FT

STREET: Load Line 4

MAP #2:

MH:

E6

LOCALE: EASEMENT

003 TAPE #:

MH:

South

INSPECT REASON:

OTHER

PIPE SIZE: MATERIAL:

8" STEEL

JT LGTH:

SECTION TYPE:

WASTEWATER

LINING:

AREA:

Ravenna Army Ammunition Plant

RSRVD:

REMARK:

1:1000POSITION

OBSERVATION

0.00 \$1 E6 10.04 26.34 51.00

inspection begins at downstream manhole, START

roots light

roots medium

inspection abandoned, END seen enough





26.34 FT //



7611 EASY ST MASON OH, 45040

Tel: (513) 398-4521, Fax: (513) 398-5628

INSPECTION REPORT

*		MARIE	IA IXEI OIX.		
DATE:	work order:	WEATHER: SUNNY, DRY	OPERATOR: P.KELLUM	SECTION NR: 54	SECTION NAME:
08/08/2001			PRESET:	CLEANED:	RATE:
PRESENT:	VEHICLE:	CAMERA: PAN/TILT	PRESET.	NO	310

CITY:

Ravenna

STREET: Load Line 4

LOCALE: EASEMENT

MAP #1:

MAP #2: TAPE #:

003

TV'D LGTH:

10.44 FT

MH:

E6

MH:

East

INSPECT REASON: SECTION TYPE:

OTHER

WASTEWATER Ravenna Army Ammunition Plant MATERIAL: LINING: RSRVD:

PIPE SIZE:

8"

STEEL

JT LGTH:

AREA: REMARK:

1:1000POSITION

OBSERVATION

0.00 \$1 E6 10.44 10.44

inspection begins at upstream manhole, START

debris Heavy!!!!

camera blocked, inspection abandoned Heavy debris-Could not pass!!!!



10.44 FT //



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INSPECTION REPORT

		11401 20110			
DATE:	work order:	WEATHER: SUNNY, DRY	OPERATOR: P.KELLUM	SECTION NR: 55	SECTION NAME
08/08/2001			PRESET:	CLEANED:	RATE:
PRESENT:	VEHICLE: 811	CAMERA: PAN/TILT	PRESET.	NO	0

CITY:

Ravenna

STREET: Load Line 4

LOCALE: EASEMENT

MAP #1:

MAP #2: TAPE #:

003

TV'D LGTH: MH:

25.85 FT C/B 13

MH:

West

INSPECT REASON:

OTHER

STORMWATER

PIPE SIZE: MATERIAL:

JT LGTH: VCP

SECTION TYPE: AREA:

Ravenna Army Ammunition Plant

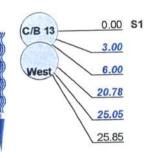
LINING:

RSRVD:

REMARK:

1:1000POSITION

OBSERVATION



inspection begins at downstream manhole, START

Longitudinal Crack, at 10 o'clock

Longitudinal Crack, at 02 o'clock

Longitudinal Crack, at 03 o'clock

Longitudinal Crack, at 06 o'clock

inspection ends at downstream manhole, END









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INSPECTION REPORT

		INSPECTIO	MIKELOIKI	/II	
DATE:	work order:	WEATHER: SUNNY, DRY	OPERATOR: P.KELLUM	SECTION NR: 56	SECTION NAME
08/08/2001	VEHICLE:	CAMERA:	PRESET:	CLEANED:	RATE:
PRESENT:	811	PAN/TILT		NO	0

003

CITY:

Ravenna

STREET: Load Line 4

MAP #1: MAP #2: TAPE #:

TV'D LGTH:

52.19 FT

MH: MH: C/B 13 East

INSPECT REASON:

LOCALE: EASEMENT

OTHER

PIPE SIZE: MATERIAL: 8" VCP

JT LGTH:

SECTION TYPE:

STORMWATER

Ravenna Army Ammunition Plant

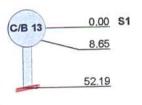
LINING:

RSRVD:

AREA: REMARK:

1:1000POSITION

OBSERVATION



inspection begins at downstream manhole, START pipe material changes at this point to STEEL

inspection abandoned, END seen enough



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