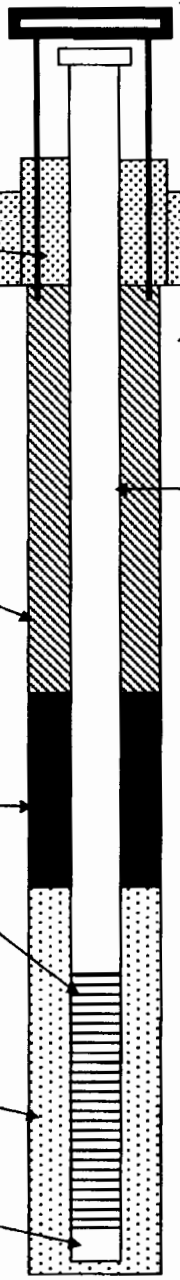
APPENDIX A

BOREHOLE LOGS AND WELL CONSTRUCTION INFORMATION

WELL CONSTRUCTION LOG

Project Name:	Baldwin Hardware	**Well Designation:**	PZ-90 WB
Project No.:	013706	**Date Completed:**	1 June 2007
Client:	MASCO	**Drilling Method:**	Geoprobe/Hollow Stem Auger
Location:	Reading, Pennsylvania	**CRA Geologist:**	Ed Pinto, P.G.
Survey Information:		**Driller:**	Eichelbergers Paul Warrick
Top of inner casing:	_____ Feet MSL	**Northing:**	_____
Ground surface:	_____ Feet MSL	**Easting:**	_____

NOT TO SCALE



6-Inch Diameter Stick-Up Protective Cover with Padlock

Protective Casing Height: 3 Feet AGS

Existing Surface

Concrete

Boring:
Diameter: HSA Nominal 8-inch

Riser:
Diameter: 2-inch
Length: 35.5 Feet
Connections: Flush-threaded
Material: PVC

Grout:
Composition: Portland Type I cement with 5% bentonite

26.5 Feet BGS, Top of Seal

Bentonite Seal
Material: Chips, hydrated

Screen:
Slot Size: 10 slot / 0.01-inch
Length: 10 feet
Diameter: 2-inch
Material: PVC

30.5 Feet BGS, Top of # 1 Sand

33.5 Feet BGS, Top of Screen

Sand/Gravel
Size: # 1 Morie
Material: Silica Sand

Groundwater:
First Encountered: _____
Static Level: DRY

Bottom Plug
Material: PVC
Connection: Threaded

43.5 Feet BGS, Bottom of Screen
44 Feet BGS, Depth of Boring

Depths Below Ground Surface (BGS)

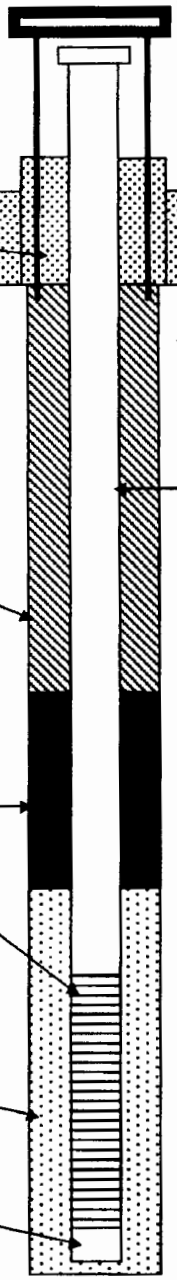
Development not completed as PZ-90WB was dry.

CRA

WELL CONSTRUCTION LOG

Project Name:	Baldwin Hardware	**Well Designation:**	PZ-80 WB
Project No.:	013706	**Date Completed:**	4 June 2007
Client:	MASCO	**Drilling Method:**	Geoprobe/Hollow Stem Auger
Location:	Reading, Pennsylvania	**CRA Geologist:**	Ed Pinto, P.G.
Survey Information:		**Driller:**	Eichelbergers Paul Warrick
Top of inner casing:	_____ Feet MSL	**Northing:**	_____
Ground surface:	_____ Feet MSL	**Easting:**	_____

NOT TO SCALE



6-Inch Diameter Stick-Up Protective Cover with Padlock

Protective Casing Height: 3 Feet AGS

Existing Surface

Concrete

Boring:
Diameter: HSA Nominal 8-inch

Riser:
Diameter: 2-inch
Length: 26 Feet
Connections: Flush-threaded
Material: PVC

Grout:
Composition: Portland Type I cement with 5% bentonite

19.5 Feet BGS, Top of Seal

Bentonite Seal
Material: Chips, hydrated

Screen:
Slot Size: 20 slot / 0.02-inch
Length: 10 feet
Diameter: 2-inch
Material: PVC

22 Feet BGS, Top of # 1 Sand

24 Feet BGS, Top of Screen

Sand/Gravel
Size: # 1 Morie
Material: Silica Sand

Groundwater:
First Encountered: _____
Static Level: DRY

Bottom Plug
Material: PVC
Connection: Threaded

34 Feet BGS, Bottom of Screen
36.5 Feet BGS, Depth of Boring

Depths Below Ground Surface (BGS)

Development not completed as PZ-80WB was dry.

CRA

WELL CONSTRUCTION LOG

Project Name:	**Baldwin Hardware**	**Well Designation:**	**PZ-80 S**
Project No.:	**013706**	**Date Completed:**	**31 May 2007**
Client:	**MASCO**	**Drilling Method:**	**Air Hammer**
Location:	**Reading, Pennsylvania**	**CRA Geologist:**	**Carl Pidge, P.G.**
Survey Information:		**Driller:**	**Eichelbergers Chris Kurtz**
Top of inner casing:	**Feet MSL**	**Northing:**	
Ground surface:	**Feet MSL**	**Easting:**	

NOT TO SCALE

6-Inch Diameter Stick-Up Protective Cover with Padlock

Protective Casing Height: 3 Feet AGS

Existing Surface

Concrete

Boring:
Diameter: Nominal 9-inch
Nominal 6-inch

Casing:
Material: Steel
Connection: Welded
Diameter: 6-Inch
Length: 60 Feet

Riser:
Diameter: 2-inch
Length: 71 Feet
Connections: Flush-threaded
Material: PVC

Grout:
Composition: Portland Type I cement with 5% bentonite

50 Feet BGS, Top of Seal

Bentonite Seal
Material: Chips, hydrated

Screen:
Slot Size: 10 slot / 0.01-inch
Length: 20 feet
Diameter: 2-inch
Material: PVC

64 Feet BGS, Top of # 1 Sand

68 Feet BGS, Top of Screen

Sand/Gravel
Size: # 1 Morie
Material: Silica Sand

Groundwater:
Encountered: 46 and 69.5 Feet BGS
Static Level: 50.25 Feet TOC

Bottom Plug
Material: PVC
Connection: Threaded

88 Feet BGS, Bottom of Screen
90 Feet BGS, Depth of Boring

Depths Below Ground Surface (BGS)

Development completed by the surge and pump method.

CRA

WELL CONSTRUCTION LOG

Project Name:	Baldwin Hardware	**Well Designation:**	PZ-80 I
Project No.:	013706	**Date Completed:**	30 May 2007
Client:	MASCO	**Drilling Method:**	Air Hammer
Location:	Reading, Pennsylvania	**CRA Geologist:**	Carl Pidge, P.G.
Survey Information:		**Driller:**	Eichelbergers Chris Kurtz
Top of inner casing:	_____ Feet MSL	**Northing:**	_____
Ground surface:	_____ Feet MSL	**Easting:**	_____

NOT TO SCALE

Depths Below Ground Surface (BGS)

Development completed by the surge and pump method.

CRA

STRATIGRAPHY LOG (OVERBURDEN)

Page: 1 of ____

Project Name:	BALDWIN HARDWARE	Drilling Contractor:	EICHELBERGER'S	Hole Designation:	PZ-90 OB
Project Number:	013706	Driller:	PAUL WARRICK	Date Started:	1 JUNE 2007
Client:	MASCO	Drilling Method:	GEOPROBE / HSA	Date Completed:	1 JUNE 2007
Location:	READING, PA.	Surface Elevation:		CRA Supervisor:	ED PINTO, P.G.

LITHOLOGY	Stratigraphic Intervals (Feet BGS) FROM	AT	TO	SAMPLE DESCRIPTION: Order of Descriptors: Primary Component/Secondary Components Relative Density/Consistency, Grain Size/Plasticity, Gradation/Structure, Color, Moisture Content, Supplementary Descriptors	SAMPLE #	SAMPLING METHOD	Penetration Record Split Spoon Blows 6 Inch	6 Inch	6 Inch	6 Inch	RECOVERY Feet	INTERVAL Ft BGS	PID PPM	N-VALUE
	0		1.7	FILL, SANDY SILT WITH ASPHALT PIECES,	1	SS	1	2	4	8	1.7	0-2	0.0	6
				MEDIUM BROWN, SLIGHTLY COHESIVE										
	2		3.6	SANDY SILT WITH GRAVEL (ANGULAR) AND	2	SS	2	4	18	24	1.6	2-4	NIR	22
				ASPHALT, MOTTLED										
		3.8		WET										
					3	SS	11	24	30	20	0.9	4-6	NIR	54

Notes and Comments

HA - Hand Auger
NA - Not Available
WH - Weight of Hammer

SS - Split-Spoon

NIR - NO INSTRUMENT RESPONSE

Northing -
Easting -

BEDROCK CORING AND DRILLING STRATIGRAPHIC LOG

PROJECT NAME: BALDWIN HARDWARE
PROJECT NUMBER: 013706
CLIENT: MASCO
LOCATION: READING, PA.

DRILLING CONTRACTOR: EICHELBERGERS
DRILLER: CHRIS KURTZ
SURFACE ELEVATION:
WEATHER (A.M.):
(P.M.):

HOLE DESIGNATION: P2-80 I
DATE/TIME STARTED: 30 MAY 2007
DATE/TIME COMPLETED: 30 MAY 2007
DRILLING METHOD: AIR HAMMER
CRA SUPERVISOR: CARL F. PIDGE, P.G.

STRATIGRAPHIC INTERVALS DEPTHS IN FEET METRES BGS FROM	AT	TO	SAMPLE DESCRIPTION — BEDROCK DESCRIPTION: FORMATION NAME, ROCK TYPE, COLOUR, BEDDING, GRAIN SIZE, TEXTURE, WEATHERING, CEMENTATION, POROSITY, FOSSILS, SUPPL. DESCR. FRACTURE DESCRIPTION: TYPE, ORIENTATION, SPACING, ROUGHNESS, APERTURE, WEATHERING, INFILLING, SUPPLEMENTARY DESCRIPTORS	NOTE: USE THESE COLUMNS FOR RECORDING DRILLING RATE AND CORE RECORD (IF CORING) — DRILLING RATE/CORE DRILLING RECORD: RUN NO.	DEPTH FROM START TIME	DEPTH TO END TIME	CORE REC% DRILL RATE	RQD %	FRACTURE INDEX	WATER USAGE VOL. WATER LOST PER RUN
	2		SILTY CLAY WITH LIMESTONE FRAGMENTS,							
			MEDIUM TO DARK TAN							
	7		SILTY CLAY WITH LIMESTONE FRAGMENTS,							
			MEDIUM TO DARK TAN							
	11.5		STEADY HAMMER							
14		24	LIMESTONE (HIGHLY WEATHERED) WITH CLAYEY							
			SILT, DARK TAN-ORANGE, PLIABLE							
	24		CLAYEY SILT WITH TRACE SAND, FINE, DARK BROWN							
	28		HAMMER CHATTER, DRILL ROD DROPPED QUICKLY							
	31		STEADY HAMMER, MINIMAL RETURNS							
36		39	SPORADIC HAMMER WITH INCREASED DRILL SPEED							
	41		CLAYEY SILT WITH TRACE LIMESTONE CHIPS,							
			LIGHT TO MEDIUM TAN							
	44		LIMESTONE (WEATHERED), MEDIUM TAN							
	45.5		LIMESTONE (WEATHERED) LIGHT GRAY-TAN							
	50		LIMESTONE (WEATHERED) LIGHT GRAY-TAN							

NOTES AND COMMENTS:

BEDROCK CORING AND DRILLING STRATIGRAPHIC LOG

PROJECT NAME BALDWIN HARDWARE
PROJECT NUMBER 013706
CLIENT MASCO
LOCATION READING, PA.

DRILLING CONTRACTOR EICHELBERGERS
DRILLER CHRIS KURTZ
SURFACE ELEVATION
WEATHER (A.M.)
(P.M.)

HOLE DESIGNATION PZ-80 I
DATE/TIME STARTED 30 MAY 2007
DATE/TIME COMPLETED 30 MAY 2007
DRILLING METHOD AIR HAMMER
CRA SUPERVISOR CARL F. PIDGE, P.G.

STRATIGRAPHIC INTERVALS DEPTHS IN FEET/METRES BGS FROM	AT	TO	SAMPLE DESCRIPTION BEDROCK DESCRIPTION: FORMATION NAME, ROCK TYPE, COLOUR, BEDDING, GRAIN SIZE, TEXTURE, WEATHERING, CEMENTATION, POROSITY, FOSSILS, SUPPL. DESCR. FRACTURE DESCRIPTION: TYPE, ORIENTATION, SPACING, ROUGHNESS, APERTURE, WEATHERING, INFILLING, SUPPLEMENTARY DESCRIPTORS	NOTE: USE THESE COLUMNS FOR RECORDING DRILLING RATE AND CORE RECORD (IF CORING) DRILLING RATE/CORE DRILLING RECORD RUN NO.	DEPTH FROM START TIME	DEPTH TO END TIME	CORE REC% DRILL RATE	RQD %	FRACTURE INDEX	WATER USAGE VOL. WATER LOST PER RUN
	55		LIMESTONE (WEATHERED), LIGHT GRAY-TAN							
+3		57	6-INCH STEEL CASING							
61		128	LIMESTONE (COMPETENT)							
	61		- LIGHT GRAY							
	65		- LIGHT GRAY							
	70		- LIGHT TAN, INCREASED DRILL SPEED							
	72		- MEDIUM GRAY							
	77		- MEDIUM GRAY							
84		88	- MEDIUM TAN WITH DARK GRAY-BLUE,							
			INCREASED DRILL SPEED, WATER BEARING ZONE			≈ 1	GPM			
	92		- DARK GRAY-BLUE, VERY SLOW DRILLING							
	96		- DARK GRAY-BLUE							
	107		- DARK GRAY-BLUE							
110.5		112	INCREASED DRILL SPEED							
	112		- DARK GRAY-BLUE							
	117		- DARK GRAY-BLUE							

NOTES AND COMMENTS

BEDROCK CORING AND DRILLING STRATIGRAPHIC LOG

PROJECT NAME BALDWIN HARDWARE
PROJECT NUMBER 013706
CLIENT MASCO
LOCATION READING, PA.

DRILLING CONTRACTOR EICHELBERGERS
DRILLER CHRIS KURTZ
SURFACE ELEVATION
WEATHER (A.M.)
(P.M.)

HOLE DESIGNATION PZ-80 I
DATE/TIME STARTED 30 MAY 2007
DATE/TIME COMPLETED 30 MAY 2007
DRILLING METHOD AIR HAMMER
CRA SUPERVISOR CARL F. PIDGE, P.G.

STRATIGRAPHIC INTERVALS DEPTHS IN (FEET) METRES BGS FROM	AT	TO	SAMPLE DESCRIPTION BEDROCK DESCRIPTION: FORMATION NAME, ROCK TYPE, COLOUR, BEDDING, GRAIN SIZE, TEXTURE, WEATHERING, CEMENTATION, POROSITY, FOSSILS, SUPPL. DESCR. FRACTURE DESCRIPTION: TYPE, ORIENTATION, SPACING, ROUGHNESS, APERTURE, WEATHERING, INFILLING, SUPPLEMENTARY DESCRIPTORS	NOTE: USE THESE COLUMNS FOR RECORDING DRILLING RATE AND CORE RECORD (IF CORING) DRILLING RATE/CORE DRILLING RECORD RUN NO.	DEPTH FROM / START TIME	DEPTH TO / END TIME	CORE REC% / DRILL RATE	RQD %	FRACTURE INDEX	WATER USAGE VOL. WATER LOST PER RUN
61		128	LIMESTONE (COMPETENT)							
	122		- DARK GRAY-BLUE							
	128		- DARK GRAY-BLUE							
			TERMINAL BOREHOLE DEPTH							
			PZ-80 I CONSTRUCTION							
0		59	9-INCH BOREHOLE							
59		128	6-INCH BOREHOLE							
~~3~~		57	6-INCH STEEL CASING							
+3		117	2-INCH PVC RISER							
117		127	2-INCH PVC SCREEN 10 SLOT							
0		50	GROUT CEMENT-BENTONITE							
50		115	BENTONITE CHIPS, HYDRATED							
115		128	SAND #1							
			WELLHEAD COMPLETION IS ABOVE GRADE							
			WITH LOCKING COVER							

NOTES AND COMMENTS

BEDROCK CORING AND DRILLING STRATIGRAPHIC LOG

PROJECT NAME: BALDWIN HARDWARE
PROJECT NUMBER: 013706
CLIENT: MASCO
LOCATION: READING, PA.

DRILLING CONTRACTOR: EICHELBERGERS
DRILLER: CHRIS KURTZ
SURFACE ELEVATION:
WEATHER (A.M.):
(P.M.):

HOLE DESIGNATION: PZ-80S
DATE/TIME STARTED: 31 MAY 2007
DATE/TIME COMPLETED: 31 MAY 2007
DRILLING METHOD: AIR HAMMER
CRA SUPERVISOR: CARL F. PIDGE, P.G.

STRATIGRAPHIC INTERVALS DEPTHS IN (FEET) METRES BGS FROM	AT	TO	SAMPLE DESCRIPTION — BEDROCK DESCRIPTION: FORMATION NAME, ROCK TYPE, COLOUR, BEDDING, GRAIN SIZE, TEXTURE, WEATHERING, CEMENTATION, POROSITY, FOSSILS, SUPPL. DESCR. FRACTURE DESCRIPTION: TYPE, ORIENTATION, SPACING, ROUGHNESS, APERTURE, WEATHERING, INFILLING, SUPPLEMENTARY DESCRIPTORS	NOTE: USE THESE COLUMNS FOR RECORDING DRILLING RATE AND CORE RECORD (IF CORING) — DRILLING RATE/CORE DRILLING RECORD: RUN NO.	DEPTH FROM / START TIME	DEPTH TO / END TIME	CORE REC% / DRILL RATE	RQD %	FRACTURE INDEX	WATER USAGE: VOL. WATER LOST PER RUN
	2		CLAYEY SILT WITH LIMESTONE FRAGMENTS, MEDIUM TAN							
6		11	NO HAMMER, NO RETURNS							
12		16	SPORADIC HAMMER, CLAYEY SILT WITH LIMESTONE,							
			DARK TAN-BROWN, MOIST							
	17.5		CLAYEY SILT WITH LIMESTONE, DARK TAN-ORANGE							
22		38	LIMESTONE (WEATHERED)							
	22		- MEDIUM TAN							
	27		- MEDIUM TAN							
	32		- MEDIUM TAN							
35		37.5	RAPID DRILLING, GOOD HAMMER							
	38		STEADY HAMMER, LIGHT TAN-GRAY							
42		90	LIMESTONE (COMPETENT)							
	42		- MEDIUM GRAY							
46		48	HAMMER CHATTER, WATER BEARING ZONE, TRACE AMOUNT							
	48		- MEDIUM GRAY							
	53		- MEDIUM GRAY							

NOTES AND COMMENTS:

BEDROCK CORING AND DRILLING STRATIGRAPHIC LOG

PROJECT NAME BALDWIN HARDWARE
PROJECT NUMBER 013706
CLIENT MASCO
LOCATION READING, PA.

DRILLING CONTRACTOR EICHELBERGERS
DRILLER CHRIS KURTZ
SURFACE ELEVATION
WEATHER (A.M.)
(P.M.)

HOLE DESIGNATION P2-80S
DATE/TIME STARTED 31 MAY 2007
DATE/TIME COMPLETED 31 MAY 2007
DRILLING METHOD AIR HAMMER
CRA SUPERVISOR CARL F. PIDLE, P.G.

STRATIGRAPHIC INTERVALS DEPTHS IN FEET METRES BGS FROM	AT	TO	SAMPLE DESCRIPTION BEDROCK DESCRIPTION: FORMATION NAME, ROCK TYPE, COLOUR, BEDDING, GRAIN SIZE, TEXTURE, WEATHERING, CEMENTATION, POROSITY, FOSSILS, SUPPL. DESCR. FRACTURE DESCRIPTION: TYPE, ORIENTATION, SPACING, ROUGHNESS, APERTURE, WEATHERING, INFILLING, SUPPLEMENTARY DESCRIPTORS	NOTE: USE THESE COLUMNS FOR RECORDING DRILLING RATE AND CORE RECORD (IF CORING) DRILLING RATE/CORE DRILLING RECORD RUN NO.	DEPTH FROM START TIME	DEPTH TO END TIME	CORE REC% DRILL RATE	RQD %	FRACTURE INDEX	WATER USAGE VOL. WATER LOST PER RUN
42		90	LIMESTONE (COMPETENT)							
	55		-DARK TAN							
	56		- MEDIUM GRAY-TAN							
	60		- DARK GRAY WITH TAN							
	65		- DARK GRAY WITH TAN							
69.5		70	HAMMER CHATTER, WATER BEARING ZONE ≈ 16 PM							
	70		-STEADY HAMMER, VERY SLOW DRILLING, DARK GRAY-BLUE							
	76		- DARK GRAY-BLUE							
	81		- DARK GRAY-BLUE							
	82		- DARK TAN-GRAY							
	83		- DARK GRAY-TAN							
	85		- DARK GRAY-TAN							
	90		- DARK GRAY-TAN							
			TERMINAL BOREHOLE DEPTH							

NOTES AND COMMENTS

BEDROCK CORING AND DRILLING STRATIGRAPHIC LOG

PROJECT NAME BALDWIN HARDWARE
PROJECT NUMBER 013706
CLIENT MASCO
LOCATION READING, PA.

DRILLING CONTRACTOR EICHELBERGERS
DRILLER CHRIS KURTZ
SURFACE ELEVATION
WEATHER (A.M.)
(P.M.)

HOLE DESIGNATION PZ-80S
DATE/TIME STARTED 31 MAY 2007
DATE/TIME COMPLETED 31 MAY 2007
DRILLING METHOD AIR HAMMER
CRA SUPERVISOR CARL F. PIDGE, P.G.

STRATIGRAPHIC INTERVALS DEPTHS IN (FEET) METRES BGS FROM	AT	TO	SAMPLE DESCRIPTION BEDROCK DESCRIPTION: FORMATION NAME, ROCK TYPE, COLOUR, BEDDING, GRAIN SIZE, TEXTURE, WEATHERING, CEMENTATION, POROSITY, FOSSILS, SUPPL. DESCR. FRACTURE DESCRIPTION: TYPE, ORIENTATION, SPACING, ROUGHNESS, APERTURE, WEATHERING, INFILLING, SUPPLEMENTARY DESCRIPTORS	NOTE: USE THESE COLUMNS FOR RECORDING DRILLING RATE AND CORE RECORD (IF CORING) DRILLING RATE/CORE DRILLING RECORD RUN NO.	DEPTH FROM START TIME	DEPTH TO END TIME	CORE REC% DRILL RATE	RQD %	FRACTURE INDEX	WATER USAGE VOL. WATER LOST PER RUN
			PZ-80S CONSTRUCTION							
0		58	9-INCH BOREHOLE							
58		90	6-INCH BOREHOLE							
+3		57	6-INCH STEEL CASING							
+3		68	2-INCH PVC RISER							
68		88	2-INCH PVC SCREEN (10SLOT)							
0		50	GROUT CEMENT-BENTONITE							
50		64	BENTONITE CHIPS, HYDRATED							
64		90	SAND #1							
			WELL HEAD COMPLETION IS ABOVE GRADE							
			WITH LOCKING COVER							

NOTES AND COMMENTS

APPENDIX B

PHOTOGRAPHIC DOCUMENTATION

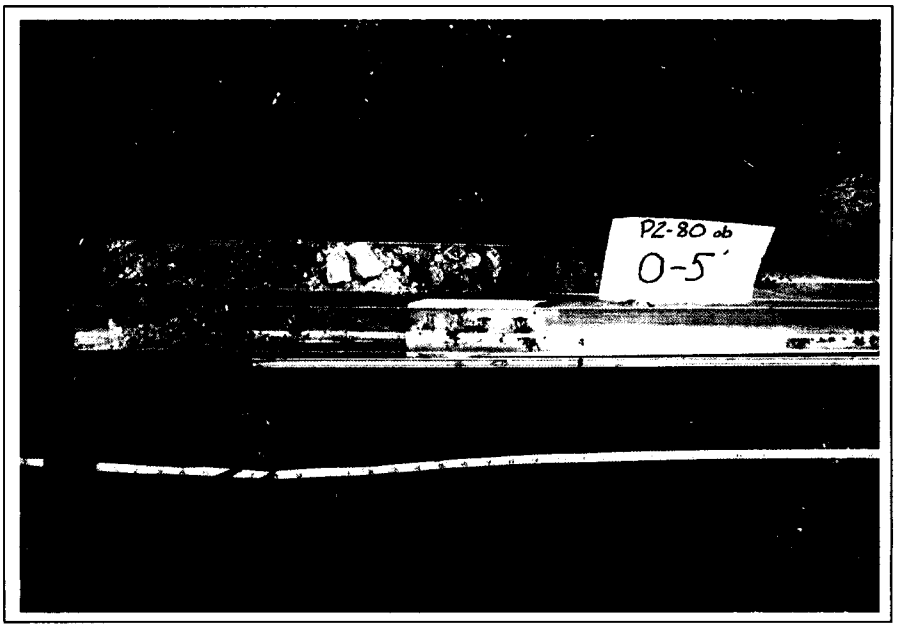


PHOTO 1: VIEW OF 0 TO 5 FEET BGS SAMPLE

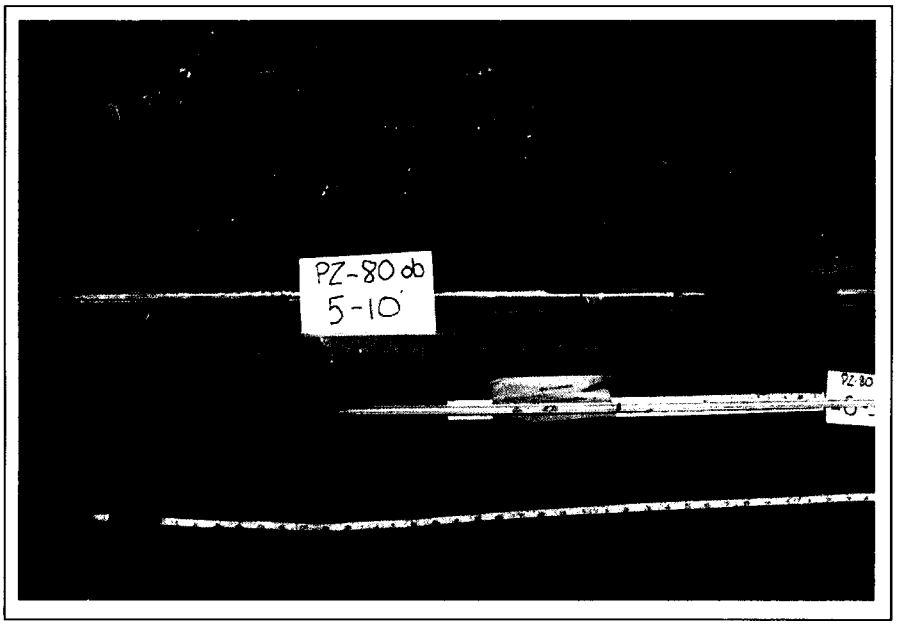


PHOTO 2: VIEW OF 5 TO 10 FEET BGS SAMPLE

SITE PHOTOGRAPHS
BOREHOLE PZ-80WB
BALDWIN HARDWARE CORPORATION
READING, PENNSYLVANIA

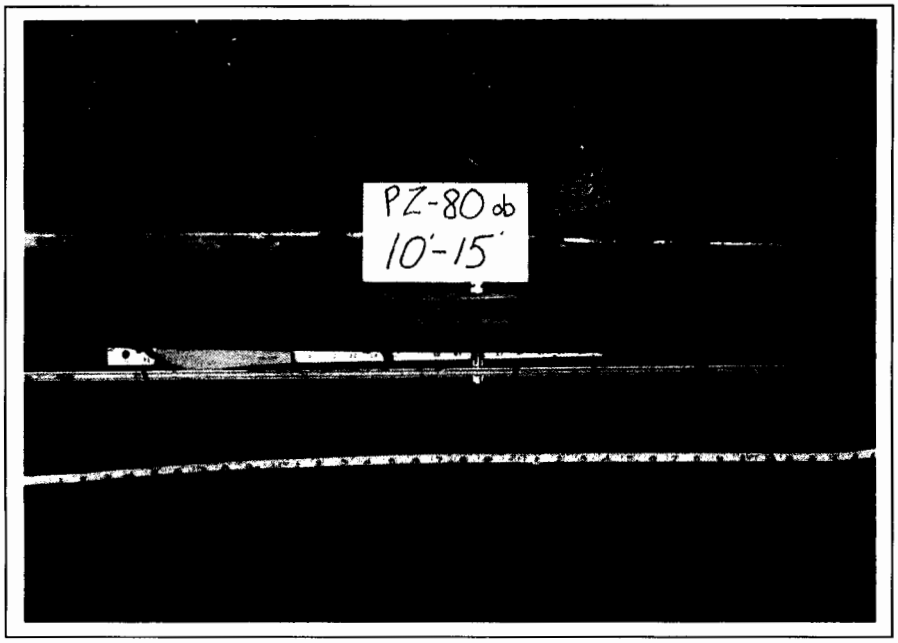


PHOTO 3: VIEW OF 10 TO 15 FEET BGS SAMPLE

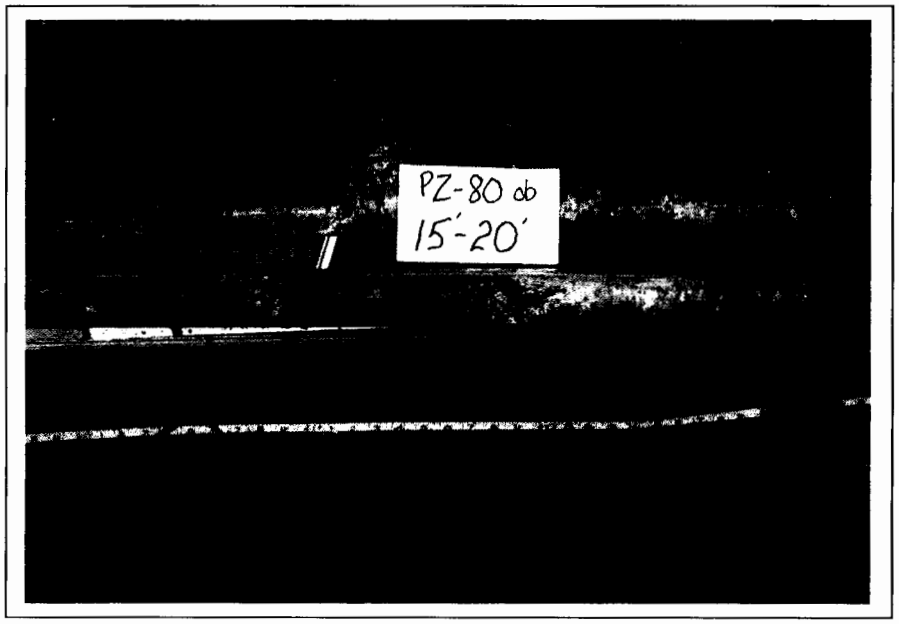


PHOTO 4: VIEW OF 15 TO 20 FEET BGS SAMPLE

SITE PHOTOGRAPHS
BOREHOLE PZ-80WB
BALDWIN HARDWARE CORPORATION
READING, PENNSYLVANIA

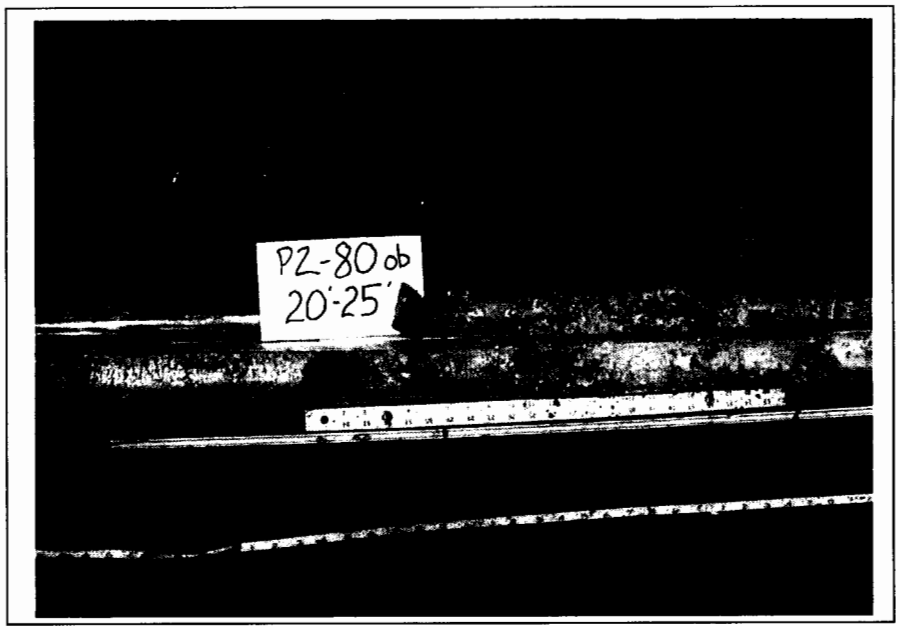


PHOTO 5: VIEW OF 20 TO 25 FEET BGS SAMPLE

PHOTO 6: VIEW OF 25 TO 30 FEET BGS SAMPLE

SITE PHOTOGRAPHS
BOREHOLE PZ-80WB
BALDWIN HARDWARE CORPORATION
READING, PENNSYLVANIA

PHOTO 7: VIEW OF 30 TO 35 FEET BGS SAMPLE

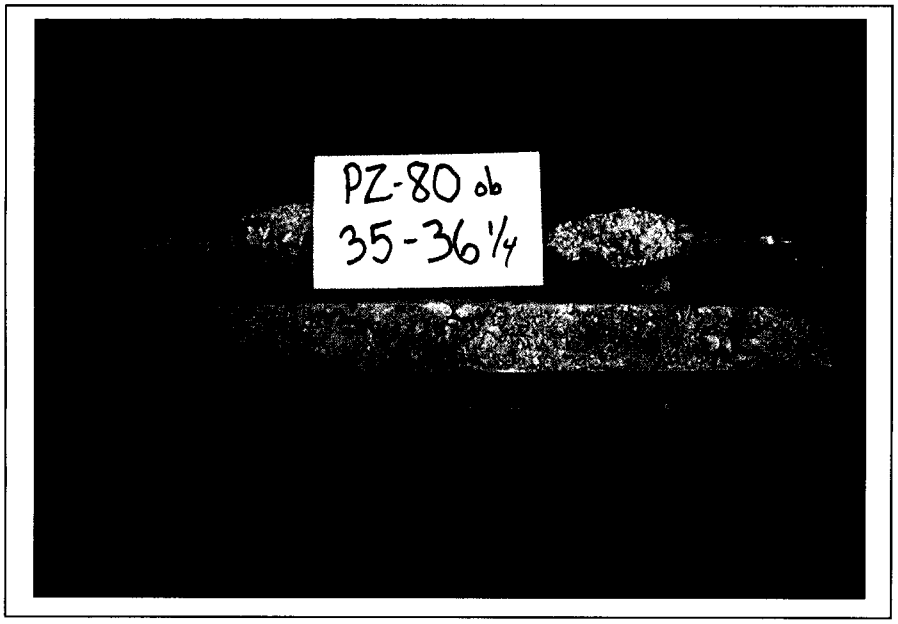


PHOTO 8: VIEW OF 35 TO 36.25 FEET BGS SAMPLE, BOTTOM OF BOREHOLE

SITE PHOTOGRAPHS
BOREHOLE PZ-80WB
BALDWIN HARDWARE CORPORATION
READING, PENNSYLVANIA

APPENDIX C

SOIL LABORATORY TEST REPORT

VALLEY FORGE LABORATORIES, INC.

Engineering Consultants | A Subsidiary of GAI Consultants, Inc.

PROJECT NO: 013706
ORIGINATOR: Rich Burns
DATE: 6.18.07
☐ CORRESPONDENCE FILE
☐ ENGINEERING FEES FILE
☐ VENDOR FILE
☒ OUT-OF-OFFICE REPORTS FILE
☐ FIELD FILE
☐

June 13, 2007

Attention: Mr. Rich Burns
Conestoga Rovers & Associates, Inc.
410 Eagleview Boulevard, Suite 110
Exton, PA 19341

Re: **Soil Laboratory Test Report 6-4-07**
Baldwin Hardware
Purchase Order No. 4004970
VFL/GAI Project No. F070729.01

Samples Received: On 6/6/07, 4 soil samples (2 jars/sample) labeled PZ-90OB (8.0-10.0 ft), PZ-90OB (20.0-22.0 ft), PZ-90OB (20.0-25.00 ft), and PZ-90OB (33.0-34.0 ft).

Testing Completed: (As per Work Order)

Test	ASTM Standard
Particle Size Analysis (sieve and hydrometer)	D 422

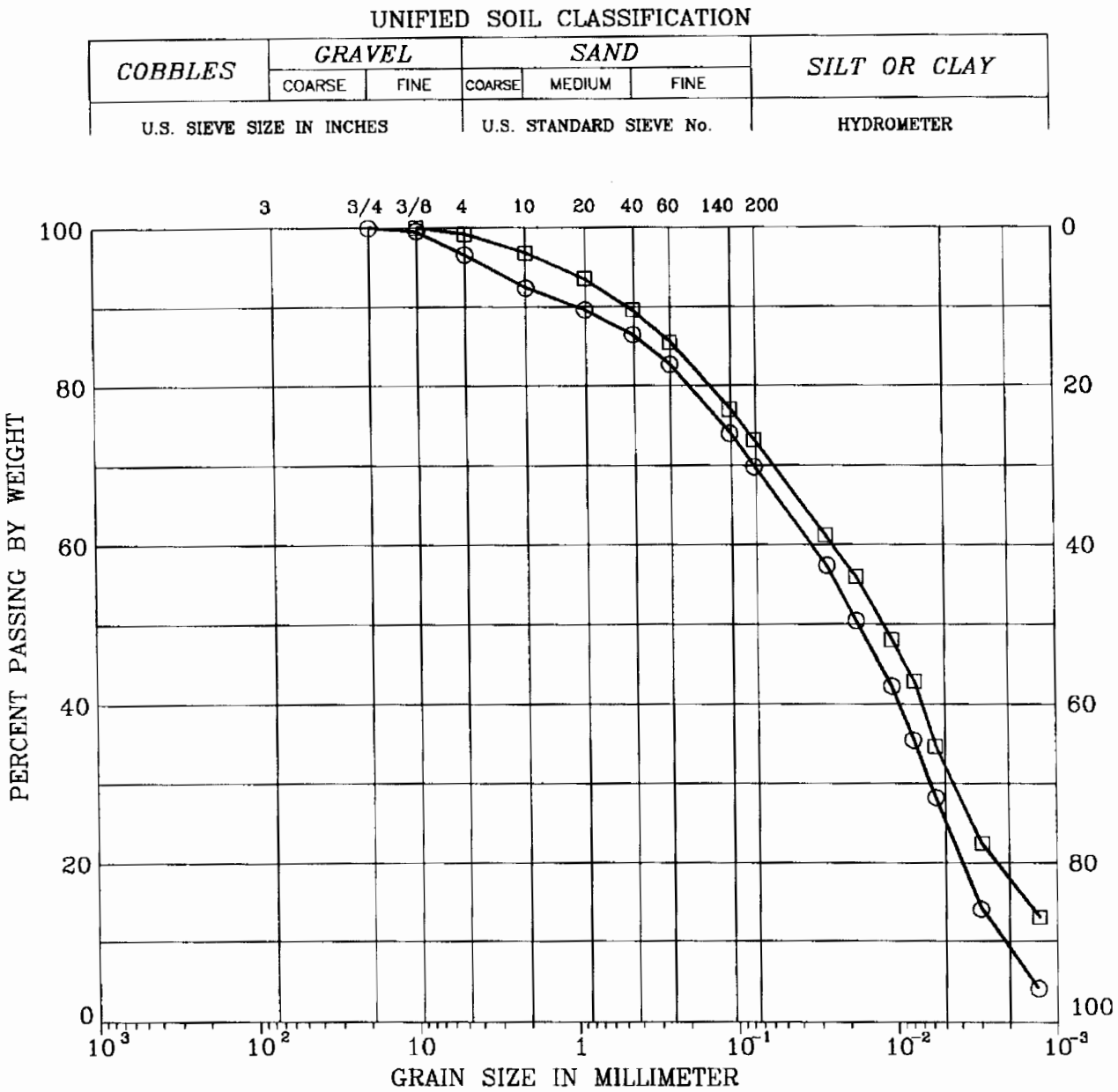
Results:

The results of the particle size analysis are graphically shown on the attached grain size distribution curves. If you have any questions please call.

Sincerely,

Jeffrey W. Rosengarten, P.E.
Project Geotechnical Engineer

Enclosures



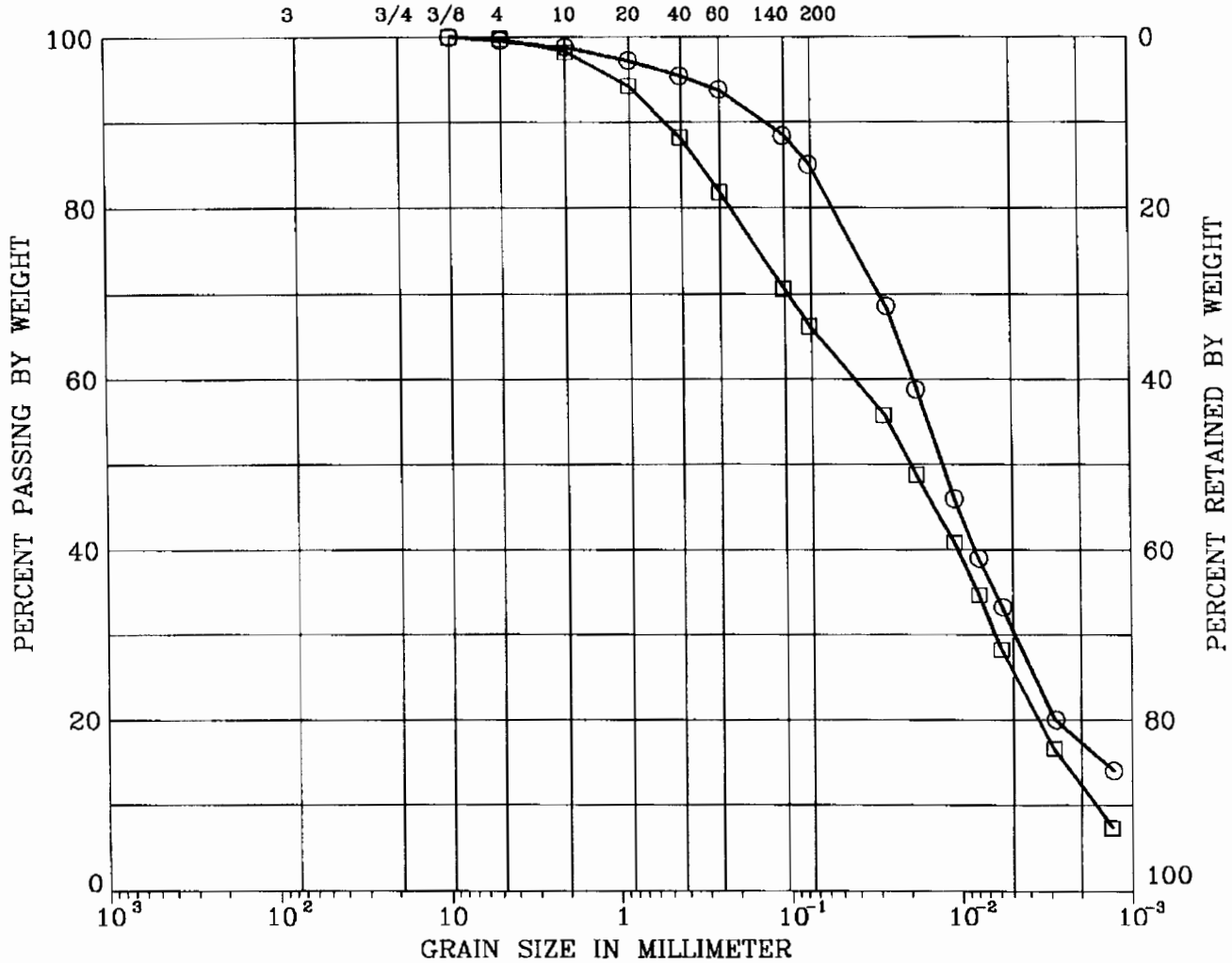
SYMBOL	BORING	DEPTH (ft)	LL (%)	PI (%)	DESCRIPTION
○	PZ-900B	20-25.0			Sandy Silt (ml)
□	PZ-900B	33-34.0			Silty with Sand (ml)

Remark :

Project No.F070729	Baldwin Hardware - Conestoga Rovers & Assoc.
Valley Forge Laboratories, Inc.	GRAIN SIZE DISTRIBUTION 6/13/07

UNIFIED SOIL CLASSIFICATION

COBBLES	GRAVEL		SAND			SILT OR CLAY
	COARSE	FINE	COARSE	MEDIUM	FINE	
U.S. SIEVE SIZE IN INCHES			U.S. STANDARD SIEVE No.			HYDROMETER



SYMBOL	BORING	DEPTH (ft)	LL (%)	PI (%)	DESCRIPTION
○	PZ-900B	8-10.0			Silt with Sand (ml)
□	PZ-900B	20-22.0			Sandy Silt (ml)

Remark :

Project No.F070729	Baldwin Hardware – Conestoga Rovers & Assoc.
Valley Forge Laboratories, Inc.	GRAIN SIZE DISTRIBUTION 6/13/07

CHAIN OF CUSTODY RECORD

610 321-1800
CONESTOGA-ROVERS & ASSOCIATES
410 Eagleview Blvd Suite 110
EXTON PA

SHIPPED TO (Laboratory Name): Valley Forge Labs, Devon, PA

REFERENCE NUMBER: Baldwin Hardware
attn: Rich Burns (CRA-EXTON)

SAMPLER'S SIGNATURE: [signature] PRINTED NAME: Ed Pinto

SEQ. No.	DATE	TIME	SAMPLE No.	SAMPLE TYPE	No. of Containers	PARAMETERS Volatile Hydro									REMARKS
															ASTM STANDARD
1	6/1/07		PZ-9OOB(8-10')	SOIL	2	X									D 422
2	6/1/07		PZ-9OOB(20-22')	SOIL	2	X									
3	6/4/07		PZ-8OOB(20-25')	SOIL	2	X									
4	6/4/07		PZ-8OOB(33-34')	SOIL	2	X									

PROJECT NO: 013706
ORIGINATOR: [illegible]
DATE: 6.18.07
☐ CORRESPONDENCE FILE
☐ ENGINEERING FEES FILE
☐ VENDOR FILE
☐ OUT-OF-OFFICE REPORTS FILE
☒ FIELD FILE
☐

TOTAL NUMBER OF CONTAINERS: 8

HEALTH/CHEMICAL HAZARDS: None.

RELINQUISHED BY:	DATE / TIME	RECEIVED BY:	DATE / TIME
① [signature]	DATE: 6/6/07 TIME: 3:50 PM	① [signature]	DATE: 6/06/07 TIME: 1551
② [signature]	DATE: 6/06/07 TIME: 1641	② [signature]	DATE: 6/6/07 TIME: 4:41 pm
③	DATE: TIME:	③	DATE: TIME:

METHOD OF SHIPMENT:

WAY BILL No.

White	–Fully Executed Copy
Yellow	–Receiving Laboratory Copy
Pink	–Shipper Copy
Goldenrod	–Sampler Copy

SAMPLE TEAM: Ed Pinto, Rich Burns.

RECEIVED FOR LABORATORY BY:

DATE: TIME:

No CRA 05410

1001 (D) APR 28/97(NF) REV. 0 (F-15)

APPENDIX D

WELL DEVELOPMENT FIELD DATA SHEETS

WELL DEVELOPMENT AND STABILIZATION FORM

PROJECT NAME: MASCO - BALDWIN

PROJECT NO.: 013706

DATE OF WELL DEVELOPMENT: 13 JUL 07

DEVELOPMENT CREW MEMBERS: CARL PIGLE, P.G.

PURGING METHOD: SUBMERSIBLE / SURGE

SAMPLE NO.: NO SAMPLES

SAMPLE TIME:

WELL INFORMATION

WELL NUMBER: PZ-BOI

WELL TYPE (diameter/material) 2 inch PVC

MEASURING POINT ELEVATION:

STATIC WATER DEPTH: 47.62 FT TOC

ELEVATION:

BOTTOM DEPTH: 127 FT BGS

ELEVATION:

WATER COLUMN LENGTH: 79 FEET

SCREENED INTERVAL: 117-127 FT BGS

WELL VOLUME: 16 GALS

127 − 48 = 79 FT

79 × 0.2 = 15.8 GALS

Note: For 2-inch diameter well: 1 foot = 0.14 gallons (imp) or 0.16 gallons (us)
1 meter = 2 liters

	GALS / UNITS	111- 16 1	111- 32 2	1 ~~48~~ 38 3	~~64~~ 40 4	42 ~~80~~ 42 5	TOTAL/ AVERAGE
VOLUME PURGED (volume/total volume):							
FIELD pH:		7.44	7.62	7.63	7.48	7.59	
FIELD TEMPERATURE:		16.5	18.0	16.5	18.0	18.8	
FIELD CONDUCTIVITY:		0.555	0.514	0.510	0.514	0.514	
CLARITY/TURBIDITY VALUES:		217	999	999	739	452	
COLOR:		CLEAR	WHITE	WHITE	WHITE	WHITE	
ODOR:							
COMMENTS:	PUMP	AT =	DRY @ 28 GALS. 126 FT	DRY BGS	DRY	DRY	

COPIES TO:

WELL DEVELOPMENT AND STABILIZATION FORM

PROJECT NAME: MASCO-BALDWIN
PROJECT NO.: 013706
DATE OF WELL DEVELOPMENT: 13 JUNE 2007
DEVELOPMENT CREW MEMBERS: CARL PIDGE, P.G.
PURGING METHOD: Pump/surge
SAMPLE NO.: NO SAMPLES
SAMPLE TIME:

89
90.5
50.7
39.8 FT

WELL INFORMATION

WELL NUMBER: P2-80S
WELL TYPE (diameter/material) 2-INCH PVC
MEASURING POINT ELEVATION:
STATIC WATER DEPTH: 50.70 FT TOC
ELEVATION:
BOTTOM DEPTH: 90.5 FT TOC
ELEVATION:
WATER COLUMN LENGTH: 39.8 FT
SCREENED INTERVAL: 68 TO 88 FT BGS
WELL VOLUME: 8 GALS.

~~39.8~~ 40 × 0.2
8 GALS ~ 1 VOL

STARTED 0810 hrs

Note: For 2-inch diameter well: 1 foot = 0.14 gallons (imp) or 0.16 gallons (us)
1 meter = 2 liters

	GALS. UNITS	8 (pump) 1	16 2	24 (pump off) 3	32 4	40 (surge) 5	TOTAL/ AVERAGE
VOLUME PURGED (volume/total volume):							
FIELD pH:		6.41	6.55	6.53	6.40	6.46	
FIELD TEMPERATURE: °C		15.1	14.8	14.7	14.6	14.5	
FIELD CONDUCTIVITY: mS/cm		0.923	0.918	0.918	1.03	0.926	
CLARITY/TURBIDITY VALUES:		704	95	99	999	992	
COLOR:		WHITE	SL WHITE CLOUD				
ODOR:							
COMMENTS: pump @ SETTLED	~~120~~ 86 FT bgs			~~78~~ 78 FT bgs	~~115~~ 70 FT bgs	70 FT bgs	

COPIES TO:

WELL DEVELOPMENT AND STABILIZATION FORM

PROJECT NAME: MASCO - BALDWIN
PROJECT NO.: 013706
DATE OF WELL DEVELOPMENT: 13 JUNE 07
DEVELOPMENT CREW MEMBERS: CARL PIDGE, P.G.
PURGING METHOD: Pump / Surge
SAMPLE NO.: NO SAMPLES
SAMPLE TIME:

OFF 0926 HRS
80 GALS
10 VOLUMES

WELL INFORMATION

WELL NUMBER: PZ-80S
WELL TYPE (diameter/material) 2-inch PVC
MEASURING POINT ELEVATION:
STATIC WATER DEPTH: 50.70 FT TOC
ELEVATION:
BOTTOM DEPTH: 90.5 FT TOC
ELEVATION:
WATER COLUMN LENGTH: 39.8 FEET
SCREENED INTERVAL: 68-88 FT BLS
WELL VOLUME: 8 GALS.

Note: For 2-inch diameter well: 1 foot = 0.14 gallons (imp) or 0.16 gallons (us)
1 meter = 2 liters

	UNITS	~~1~~ 6 surged	~~2~~ 7	~~3~~ 8 surge	~~4~~ 9	~~5~~ 10	TOTAL/ AVERAGE
VOLUME PURGED (volume/total volume):		48 GALS	56 GALS	64 GALS	72 GAL	80 GALS	
FIELD pH:		6.50	6.55	6.60	6.62	6.64	
FIELD TEMPERATURE:		14.5	14.5	14.6	14.6	14.9	
FIELD CONDUCTIVITY:		0.926	0.948	0.922	0.917	0.913	
CLARITY/TURBIDITY VALUES:		221	999	849	184	15	
COLOR:		WHITE		WHITE		CLEAR	
ODOR:							
COMMENTS: Pump FT BLS		78 FT BLS		86 FT BLS		80 FEET	90 FEET

COPIES TO:

APPENDIX E

LABORATORY ANALYTICAL REPORTS

Lancaster Laboratories

2425 New Holland Pike PO Box 12425 Lancaster PA 17605-2425 • 717 656-2300 Fax 717 656-2681 • www.lancasterlabs.com

Analysis Report

ANALYTICAL RESULTS

Prepared for:

Conestoga-Rovers & Associates
2055 Niagara Falls Blvd
Suite #3
Niagara Falls NY 14304

716-297-2160

Prepared by:

Lancaster Laboratories
2425 New Holland Pike
Lancaster, PA 17605-2425

SAMPLE GROUP

The sample group for this submittal is 1044553. Samples arrived at the laboratory on Wednesday, June 27, 2007. The PO# for this group is 4005526.

Client Description	Lancaster Labs Number
PZ-80OB Composite Soil Sample	5091131
PZ-80OB Composite Soil Sample	5091132
PZ-80S Composite Soil Sample	5091133
PZ-80S Composite Soil Sample	5091134
PZ-80I Composite Soil Sample	5091135
PZ-80I Composite Soil Sample	5091136
PZ-90OB Composite Soil Sample	5091137
PZ-90OB Composite Soil Sample	5091138

1 COPY TO CRA Attn: Rich Burns

Lancaster Laboratories

Analysis Report

2425 New Holland Pike PO Box 12425 Lancaster PA 17605-2425 • 717-656-2300 Fax 717-656-2681 • www.lancasterlabs.com

Questions? Contact your Client Services Representative
Angela M Miller at (717) 656-2300

Respectfully Submitted,

Max E. Snavely
Senior Specialist

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Lancaster Laboratories Sample No. TL 5091131

PZ-80OB Composite Soil Sample
TCLP NVE CRA Project# 013706
Baldwin Hardware
Collected:06/27/2007 11:30 by MM

Account Number: 11938

Submitted: 06/27/2007 15:55
Reported: 07/16/2007 at 09:24
Discard: 08/16/2007

Conestoga-Rovers & Associates
2055 Niagara Falls Blvd
Suite #3
Niagara Falls NY 14304

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Limit of Quantitation	Units	Dilution Factor
00259	Mercury	7439-97-6	< 0.00020	0.00020	mg/l	1
07035	Arsenic	7440-38-2	< 0.0200	0.0200	mg/l	1
07036	Selenium	7782-49-2	< 0.0200	0.0200	mg/l	1
07046	Barium	7440-39-3	0.382	0.0050	mg/l	1
07049	Cadmium	7440-43-9	< 0.0050	0.0050	mg/l	1
07051	Chromium	7440-47-3	0.0309	0.0150	mg/l	1
07055	Lead	7439-92-1	0.0276	0.0150	mg/l	1
07066	Silver	7440-22-4	< 0.0050	0.0050	mg/l	1

Commonwealth of Pennsylvania Lab Certification No. 36-037

If the analysis is for determination of Hazardous Waste Characteristics, see Table 1 in EPA Code of Federal Regulations 40 CFR 261.24.

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Chronicle

CAT No.	Analysis Name	Method	Trial#	Analysis Date and Time	Analyst	Dilution Factor
00259	Mercury	SW-846 7470A	1	07/04/2007 10:58	Nelli S Markaryan	1
07035	Arsenic	SW-846 6010B	1	07/05/2007 08:36	Eric L Eby	1
07036	Selenium	SW-846 6010B	1	07/05/2007 08:36	Eric L Eby	1
07046	Barium	SW-846 6010B	1	07/05/2007 08:36	Eric L Eby	1
07049	Cadmium	SW-846 6010B	1	07/05/2007 08:36	Eric L Eby	1
07051	Chromium	SW-846 6010B	1	07/05/2007 08:36	Eric L Eby	1
07055	Lead	SW-846 6010B	1	07/05/2007 08:36	Eric L Eby	1
07066	Silver	SW-846 6010B	1	07/05/2007 08:36	Eric L Eby	1
00947	TCLP Non-volatile Extraction	SW-846 1311	1	07/02/2007 11:30	Jeremy L Weaver	n.a.
05705	WW/TL SW 846 ICP Digest (tot)	SW-846 3010A	1	07/04/2007 11:00	Mirit S Shenouda	1
05713	WW SW846 Hg Digest	SW-846 7470A	1	07/03/2007 20:00	Nelli S Markaryan	1

Lancaster Laboratories

Analysis Report

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Lancaster Laboratories Sample No. TL 5091132

PZ-80OB Composite Soil Sample
TCLP ZHE CRA Project# 013706
Baldwin Hardware
Collected:06/27/2007 11:30 by MM

Account Number: 11938

Submitted: 06/27/2007 15:55
Reported: 07/16/2007 at 09:24
Discard: 08/16/2007

Conestoga-Rovers & Associates
2055 Niagara Falls Blvd
Suite #3
Niagara Falls NY 14304

80-OB

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Limit of Quantitation	Units	Dilution Factor
03636	TCLP by 8260					
05386	Vinyl Chloride	75-01-4	< 0.10	0.10	mg/l	20
05390	1,1-Dichloroethene	75-35-4	< 0.10	0.10	mg/l	20
05396	Chloroform	67-66-3	< 0.10	0.10	mg/l	20
05399	Carbon Tetrachloride	56-23-5	< 0.10	0.10	mg/l	20
05401	Benzene	71-43-2	< 0.10	0.10	mg/l	20
05402	1,2-Dichloroethane	107-06-2	< 0.10	0.10	mg/l	20
05403	Trichloroethene	79-01-6	< 0.10	0.10	mg/l	20
05409	Tetrachloroethene	127-18-4	< 0.10	0.10	mg/l	20
05413	Chlorobenzene	108-90-7	< 0.10	0.10	mg/l	20
06305	2-Butanone	78-93-3	< 0.20	0.20	mg/l	20

Commonwealth of Pennsylvania Lab Certification No. 36-037

If the analysis is for determination of Hazardous Waste Characteristics, see Table 1 in EPA Code of Federal Regulations 40 CFR 261.24.

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Chronicle

CAT No.	Analysis Name	Method	Trial#	Analysis Date and Time	Analyst	Dilution Factor
03636	TCLP by 8260	SW-846 8260B	1	07/09/2007 10:34	Holly Berry	20
00946	TCLP Zero Headspace Extraction	SW-846 1311	1	07/02/2007 15:05	Darin P Wagner	n.a.
01163	GC/MS VOA Water Prep	SW-846 5030B	1	07/09/2007 10:34	Holly Berry	20

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Analysis Report

Lancaster Laboratories Sample No. TL 5091133

PZ-80S Composite Soil Sample
TCLP NVE CRA Project# 013706
Baldwin Hardware
Collected:06/27/2007 12:30 by MM

Account Number: 11938

Submitted: 06/27/2007 15:55
Reported: 07/16/2007 at 09:24
Discard: 08/16/2007

Conestoga-Rovers & Associates
2055 Niagara Falls Blvd
Suite #3
Niagara Falls NY 14304

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Limit of Quantitation	Units	Dilution Factor
00259	Mercury	7439-97-6	< 0.00020	0.00020	mg/l	1
07035	Arsenic	7440-38-2	< 0.0200	0.0200	mg/l	1
07036	Selenium	7782-49-2	< 0.0200	0.0200	mg/l	1
07046	Barium	7440-39-3	1.33	0.0050	mg/l	1
07049	Cadmium	7440-43-9	< 0.0050	0.0050	mg/l	1
07051	Chromium	7440-47-3	< 0.0150	0.0150	mg/l	1
07055	Lead	7439-92-1	< 0.0150	0.0150	mg/l	1
07066	Silver	7440-22-4	< 0.0050	0.0050	mg/l	1

Commonwealth of Pennsylvania Lab Certification No. 36-037

If the analysis is for determination of Hazardous Waste Characteristics, see Table 1 in EPA Code of Federal Regulations 40 CFR 261.24.

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Chronicle

CAT No.	Analysis Name	Method	Trial#	Analysis Date and Time	Analyst	Dilution Factor
00259	Mercury	SW-846 7470A	1	07/04/2007 11:05	Nelli S Markaryan	1
07035	Arsenic	SW-846 6010B	1	07/05/2007 08:39	Eric L Eby	1
07036	Selenium	SW-846 6010B	1	07/05/2007 08:39	Eric L Eby	1
07046	Barium	SW-846 6010B	1	07/05/2007 08:39	Eric L Eby	1
07049	Cadmium	SW-846 6010B	1	07/05/2007 08:39	Eric L Eby	1
07051	Chromium	SW-846 6010B	1	07/05/2007 08:39	Eric L Eby	1
07055	Lead	SW-846 6010B	1	07/05/2007 08:39	Eric L Eby	1
07066	Silver	SW-846 6010B	1	07/05/2007 08:39	Eric L Eby	1
00947	TCLP Non-volatile Extraction	SW-846 1311	1	07/02/2007 11:30	Jeremy L Weaver	n.a.
05705	WW/TL SW 846 ICP Digest (tot)	SW-846 3010A	1	07/04/2007 11:00	Mirit S Shenouda	1
05713	WW SW846 Hg Digest	SW-846 7470A	1	07/03/2007 20:00	Nelli S Markaryan	1

Lancaster Laboratories

Analysis Report

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Lancaster Laboratories Sample No. TL 5091134

PZ-80S Composite Soil Sample
TCLP ZHE CRA Project# 013706
Baldwin Hardware
Collected:06/27/2007 12:30 by MM

Account Number: 11938

Submitted: 06/27/2007 15:55
Reported: 07/16/2007 at 09:24
Discard: 08/16/2007

Conestoga-Rovers & Associates
2055 Niagara Falls Blvd
Suite #3
Niagara Falls NY 14304

80--S

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Limit of Quantitation	Units	Dilution Factor
03636	TCLP by 8260					
05386	Vinyl Chloride	75-01-4	< 0.10	0.10	mg/l	20
05390	1,1-Dichloroethene	75-35-4	< 0.10	0.10	mg/l	20
05396	Chloroform	67-66-3	< 0.10	0.10	mg/l	20
05399	Carbon Tetrachloride	56-23-5	< 0.10	0.10	mg/l	20
05401	Benzene	71-43-2	< 0.10	0.10	mg/l	20
05402	1,2-Dichloroethane	107-06-2	< 0.10	0.10	mg/l	20
05403	Trichloroethene	79-01-6	< 0.10	0.10	mg/l	20
05409	Tetrachloroethene	127-18-4	< 0.10	0.10	mg/l	20
05413	Chlorobenzene	108-90-7	< 0.10	0.10	mg/l	20
06305	2-Butanone	78-93-3	< 0.20	0.20	mg/l	20

Commonwealth of Pennsylvania Lab Certification No. 36-037

If the analysis is for determination of Hazardous Waste Characteristics, see Table 1 in EPA Code of Federal Regulations 40 CFR 261.24.

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Chronicle

CAT No.	Analysis Name	Method	Trial#	Analysis Date and Time	Analyst	Dilution Factor
03636	TCLP by 8260	SW-846 8260B	1	07/09/2007 11:20	Holly Berry	20
00946	TCLP Zero Headspace Extraction	SW-846 1311	1	07/02/2007 15:05	Darin P Wagner	n.a.
01163	GC/MS VOA Water Prep	SW-846 5030B	1	07/09/2007 11:20	Holly Berry	20

Lancaster Laboratories

Analysis Report

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Lancaster Laboratories Sample No. TL 5091135

PZ-80I Composite Soil Sample
TCLP NVE CRA Project# 013706
Baldwin Hardware
Collected:06/27/2007 13:20 by MM

Account Number: 11938

Submitted: 06/27/2007 15:55
Reported: 07/16/2007 at 09:24
Discard: 08/16/2007

Conestoga-Rovers & Associates
2055 Niagara Falls Blvd
Suite #3
Niagara Falls NY 14304

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Limit of Quantitation	Units	Dilution Factor
00259	Mercury	7439-97-6	< 0.00020	0.00020	mg/l	1
07035	Arsenic	7440-38-2	< 0.0200	0.0200	mg/l	1
07036	Selenium	7782-49-2	< 0.0200	0.0200	mg/l	1
07046	Barium	7440-39-3	1.70	0.0050	mg/l	1
07049	Cadmium	7440-43-9	< 0.0050	0.0050	mg/l	1
07051	Chromium	7440-47-3	< 0.0150	0.0150	mg/l	1
07055	Lead	7439-92-1	< 0.0150	0.0150	mg/l	1
07066	Silver	7440-22-4	< 0.0050	0.0050	mg/l	1

Commonwealth of Pennsylvania Lab Certification No. 36-037

If the analysis is for determination of Hazardous Waste Characteristics, see Table 1 in EPA Code of Federal Regulations 40 CFR 261.24.

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Chronicle

CAT No.	Analysis Name	Method	Trial#	Analysis Date and Time	Analyst	Dilution Factor
00259	Mercury	SW-846 7470A	1	07/04/2007 11:06	Nelli S Markaryan	1
07035	Arsenic	SW-846 6010B	1	07/05/2007 08:51	Eric L Eby	1
07036	Selenium	SW-846 6010B	1	07/05/2007 08:51	Eric L Eby	1
07046	Barium	SW-846 6010B	1	07/05/2007 08:51	Eric L Eby	1
07049	Cadmium	SW-846 6010B	1	07/05/2007 08:51	Eric L Eby	1
07051	Chromium	SW-846 6010B	1	07/05/2007 08:51	Eric L Eby	1
07055	Lead	SW-846 6010B	1	07/05/2007 08:51	Eric L Eby	1
07066	Silver	SW-846 6010B	1	07/05/2007 08:51	Eric L Eby	1
00947	TCLP Non-volatile Extraction	SW-846 1311	1	07/02/2007 11:30	Jeremy L Weaver	n.a.
05705	WW/TL SW 846 ICP Digest (tot)	SW-846 3010A	1	07/04/2007 11:00	Mirit S Shenouda	1
05713	WW SW846 Hg Digest	SW-846 7470A	1	07/03/2007 20:00	Nelli S Markaryan	1

Lancaster Laboratories

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Analysis Report

Lancaster Laboratories Sample No. TL 5091136

PZ-80I Composite Soil Sample
TCLP ZHE CRA Project# 013706
Baldwin Hardware
Collected:06/27/2007 13:20 by MM

Account Number: 11938

Submitted: 06/27/2007 15:55
Reported: 07/16/2007 at 09:24
Discard: 08/16/2007

Conestoga-Rovers & Associates
2055 Niagara Falls Blvd
Suite #3
Niagara Falls NY 14304

80--I

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Limit of Quantitation	Units	Dilution Factor
03636	TCLP by 8260					
05386	Vinyl Chloride	75-01-4	< 0.10	0.10	mg/l	20
05390	1,1-Dichloroethene	75-35-4	< 0.10	0.10	mg/l	20
05396	Chloroform	67-66-3	< 0.10	0.10	mg/l	20
05399	Carbon Tetrachloride	56-23-5	< 0.10	0.10	mg/l	20
05401	Benzene	71-43-2	< 0.10	0.10	mg/l	20
05402	1,2-Dichloroethane	107-06-2	< 0.10	0.10	mg/l	20
05403	Trichloroethene	79-01-6	< 0.10	0.10	mg/l	20
05409	Tetrachloroethene	127-18-4	< 0.10	0.10	mg/l	20
05413	Chlorobenzene	108-90-7	< 0.10	0.10	mg/l	20
06305	2-Butanone	78-93-3	< 0.20	0.20	mg/l	20

Commonwealth of Pennsylvania Lab Certification No. 36-037

If the analysis is for determination of Hazardous Waste Characteristics, see Table 1 in EPA Code of Federal Regulations 40 CFR 261.24.

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Chronicle

CAT No.	Analysis Name	Method	Trial#	Analysis Date and Time	Analyst	Dilution Factor
03636	TCLP by 8260	SW-846 8260B	1	07/09/2007 11:43	Holly Berry	20
00946	TCLP Zero Headspace Extraction	SW-846 1311	1	07/02/2007 15:05	Darin P Wagner	n.a.
01163	GC/MS VOA Water Prep	SW-846 5030B	1	07/09/2007 11:43	Holly Berry	20

Lancaster Laboratories

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Analysis Report

Lancaster Laboratories Sample No. TL 5091137

PZ-90OB Composite Soil Sample
TCLP NVE CRA Project# 013706
Baldwin Hardware
Collected:06/27/2007 14:00 by MM

Account Number: 11938

Submitted: 06/27/2007 15:55
Reported: 07/16/2007 at 09:24
Discard: 08/16/2007

Conestoga-Rovers & Associates
2055 Niagara Falls Blvd
Suite #3
Niagara Falls NY 14304

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Limit of Quantitation	Units	Dilution Factor
00259	Mercury	7439-97-6	< 0.00020	0.00020	mg/l	1
07035	Arsenic	7440-38-2	< 0.0200	0.0200	mg/l	1
07036	Selenium	7782-49-2	< 0.0200	0.0200	mg/l	1
07046	Barium	7440-39-3	0.449	0.0050	mg/l	1
07049	Cadmium	7440-43-9	< 0.0050	0.0050	mg/l	1
07051	Chromium	7440-47-3	< 0.0150	0.0150	mg/l	1
07055	Lead	7439-92-1	< 0.0150	0.0150	mg/l	1
07066	Silver	7440-22-4	< 0.0050	0.0050	mg/l	1

Commonwealth of Pennsylvania Lab Certification No. 36-037

If the analysis is for determination of Hazardous Waste Characteristics, see Table 1 in EPA Code of Federal Regulations 40 CFR 261.24.

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Chronicle

CAT No.	Analysis Name	Method	Trial#	Analysis Date and Time	Analyst	Dilution Factor
00259	Mercury	SW-846 7470A	1	07/04/2007 11:08	Nelli S Markaryan	1
07035	Arsenic	SW-846 6010B	1	07/05/2007 08:54	Eric L Eby	1
07036	Selenium	SW-846 6010B	1	07/05/2007 08:54	Eric L Eby	1
07046	Barium	SW-846 6010B	1	07/05/2007 08:54	Eric L Eby	1
07049	Cadmium	SW-846 6010B	1	07/05/2007 08:54	Eric L Eby	1
07051	Chromium	SW-846 6010B	1	07/05/2007 08:54	Eric L Eby	1
07055	Lead	SW-846 6010B	1	07/05/2007 08:54	Eric L Eby	1
07066	Silver	SW-846 6010B	1	07/05/2007 08:54	Eric L Eby	1
00947	TCLP Non-volatile Extraction	SW-846 1311	1	07/02/2007 11:30	Jeremy L Weaver	n.a.
05705	WW/TL SW 846 ICP Digest (tot)	SW-846 3010A	1	07/04/2007 11:00	Mirit S Shenouda	1
05713	WW SW846 Hg Digest	SW-846 7470A	1	07/03/2007 20:00	Nelli S Markaryan	1

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Analysis Report

Lancaster Laboratories Sample No. TL 5091138

PZ-90OB Composite Soil Sample
TCLP ZHE CRA Project# 013706
Baldwin Hardware
Collected:06/27/2007 14:00 by MM

Account Number: 11938

Submitted: 06/27/2007 15:55
Reported: 07/16/2007 at 09:24
Discard: 08/16/2007

Conestoga-Rovers & Associates
2055 Niagara Falls Blvd
Suite #3
Niagara Falls NY 14304

90-OB

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Limit of Quantitation	Units	Dilution Factor
03636	TCLP by 8260					
05386	Vinyl Chloride	75-01-4	< 0.10	0.10	mg/l	20
05390	1,1-Dichloroethene	75-35-4	< 0.10	0.10	mg/l	20
05396	Chloroform	67-66-3	< 0.10	0.10	mg/l	20
05399	Carbon Tetrachloride	56-23-5	< 0.10	0.10	mg/l	20
05401	Benzene	71-43-2	< 0.10	0.10	mg/l	20
05402	1,2-Dichloroethane	107-06-2	< 0.10	0.10	mg/l	20
05403	Trichloroethene	79-01-6	< 0.10	0.10	mg/l	20
05409	Tetrachloroethene	127-18-4	< 0.10	0.10	mg/l	20
05413	Chlorobenzene	108-90-7	< 0.10	0.10	mg/l	20
06305	2-Butanone	78-93-3	< 0.20	0.20	mg/l	20

Commonwealth of Pennsylvania Lab Certification No. 36-037

If the analysis is for determination of Hazardous Waste Characteristics, see Table 1 in EPA Code of Federal Regulations 40 CFR 261.24.

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Chronicle

CAT No.	Analysis Name	Method	Trial#	Analysis Date and Time	Analyst	Dilution Factor
03636	TCLP by 8260	SW-846 8260B	1	07/09/2007 12:05	Holly Berry	20
00946	TCLP Zero Headspace Extraction	SW-846 1311	1	07/02/2007 15:05	Darin P Wagner	n.a.
01163	GC/MS VOA Water Prep	SW-846 5030B	1	07/09/2007 12:05	Holly Berry	20

Lancaster Laboratories

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Analysis Report

Quality Control Summary

Client Name: Conestoga-Rovers & Associates
Reported: 07/16/07 at 09:24 AM

Group Number: 1044553

Matrix QC may not be reported if site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD was performed, unless otherwise specified in the method.

Laboratory Compliance Quality Control

Analysis Name	Blank Result	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Batch number: 071845705001	Sample number(s): 5091131,5091133,5091135,5091137							
Arsenic	< 0.0200	0.0200	mg/l	100		90-119		
Selenium	< 0.0200	0.0200	mg/l	107		80-120		
Barium	< 0.0050	0.0050	mg/l	97		90-110		
Cadmium	< 0.0050	0.0050	mg/l	103		90-112		
Chromium	< 0.0150	0.0150	mg/l	102		90-110		
Lead	< 0.0150	0.0150	mg/l	103		90-113		
Silver	< 0.0050	0.0050	mg/l	104		90-118		
Batch number: 071845713002	Sample number(s): 5091131,5091133,5091135,5091137							
Mercury	< 0.00020	0.00020	mg/l	107		80-120		
Batch number: Y071901AE	Sample number(s): 5091132,5091134,5091136,5091138							
Vinyl Chloride	< 0.10	0.10	mg/l	83		54-123		
1,1-Dichloroethene	< 0.10	0.10	mg/l	107		76-122		
Chloroform	< 0.10	0.10	mg/l	103		86-124		
Carbon Tetrachloride	< 0.10	0.10	mg/l	112		77-130		
Benzene	< 0.10	0.10	mg/l	99		78-119		
1,2-Dichloroethane	< 0.10	0.10	mg/l	110		77-132		
Trichloroethene	< 0.10	0.10	mg/l	106		87-117		
Tetrachloroethene	< 0.10	0.10	mg/l	106		74-125		
Chlorobenzene	< 0.10	0.10	mg/l	94		85-115		
2-Butanone	< 0.20	0.20	mg/l	82		52-163		

Sample Matrix Quality Control

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike
Background (BKG) = the sample used in conjunction with the duplicate

Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
Batch number: 071845705001	Sample number(s): 5091131,5091133,5091135,5091137 UNSPK: P093724 BKG: P093724								
Arsenic	102	93	75-125	8	20	< 0.0200	< 0.0200	36* (1)	20
Selenium	106	104	75-125	2	20	< 0.0200	< 0.0200	200* (1)	20
Barium	96	95	75-125	1	20	1.01	1.02	1	20
Cadmium	(2)	(2)	83-116	1	20	0.200	0.201	0	20
Chromium	101	99	81-120	1	20	0.0217	0.0214	2 (1)	20
Lead	(2)	(2)	75-125	1	20	1.06	1.07	1	20
Silver	103	104	75-125	1	20	< 0.0050	< 0.0050	112* (1)	20
Batch number: 071845713002	Sample number(s): 5091131,5091133,5091135,5091137 UNSPK: 5091131 BKG: 5091131								
Mercury	105	105	80-120	0	20	< 0.00020	< 0.00020	200* (1)	20
Batch number: Y071901AE	Sample number(s): 5091132,5091134,5091136,5091138 UNSPK: P085802								

*- Outside of specification
(1) The result for one or both determinations was less than five times the LOQ.
(2) The background result was more than four times the spike added.

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Analysis Report

Quality Control Summary

Client Name: Conestoga-Rovers & Associates
Reported: 07/16/07 at 09:24 AM

Group Number: 1044553

Sample Matrix Quality Control

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike
Background (BKG) = the sample used in conjunction with the duplicate

Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
Vinyl Chloride	98	105	54-143	7	30				
1,1-Dichloroethene	125	130	87-145	3	30				
Chloroform	124	131	83-139	5	30				
Carbon Tetrachloride	131	135	82-149	3	30				
Benzene	114	121	83-128	6	30				
1,2-Dichloroethane	121	132	70-143	9	30				
Trichloroethene	129	138*	83-136	7	30				
Tetrachloroethene	208*	219*	78-133	5	30				
Chlorobenzene	107	114	83-120	6	30				
2-Butanone	83	89	57-137	6	30				

Surrogate Quality Control

Surrogate recoveries which are outside of the QC window are confirmed unless attributed to dilution or otherwise noted on the Analysis Report.

Analysis Name: TCLP by 8260
Batch number: Y071901AE

	Dibromofluoromethane	1,2-Dichloroethane-d4	Toluene-d8	4-Bromofluorobenzene
5091132	106	103	97	95
5091134	104	102	97	95
5091136	105	101	98	96
5091138	104	103	97	96
Blank	105	99	98	97
LCS	104	98	98	97
MS	106	101	98	99
MSD	105	102	97	99
Limits:	80-116	77-113	80-113	78-113

*- Outside of specification
(1) The result for one or both determinations was less than five times the LOQ.
(2) The background result was more than four times the spike added.

Analysis Request/ Environmental Services Chain of Custody

Lancaster Laboratories

For Lancaster Laboratories use only

Acct. # 11938 Group# 1044553 Sample # 5091131-38

COC # 0155348

Please print. Instructions on reverse side correspond with circled numbers.

(1)
Client: CRA Acct. #:
Project Name/#: Baldwin Hardware 013766 PWSID #:
Project Manager: P.O.#:
Sampler: Matthew Miller Quote #:
Name of state where samples were collected: PA

(3)

(4) (5) Preservation Codes

For Lab Use Only
FSC:
SCR#: 44237

Preservation Codes
H=HCl T=Thiosulfate
N=HNO_3 B=NaOH
S=H_2SO_4 O=Other

(6)

(2)

								TCLP VOC's	TCLP Metals							Remarks
PZ-80OB	6-27-07	1130		X	X		3	X	X							2 bottles for VOC's
PZ-80S	6-27-07	1230		X	X		3	X	X							1 bottle for Metals
PZ-80I	6-27-07	1320		X	X		3	X	X							
PZ-90OB	6-27-07	1400		X	X		3	X	X							
							12									

(7) **Turnaround Time Requested** (TAT) (please circle): Normal Rush
(Rush TAT is subject to Lancaster Laboratories approval and surcharge.)
Date results are needed:
~~Rush results requested by (please circle):~~ ~~Phone~~ Fax E-mail
Phone #: 484-368-7151 Fax #:
E-mail address: RBurns@CRAWorld.com

(8) **Data Package Options** (please circle if required)
Type I (validation/NJ Reg) TX TRRP-13
Type II (Tier II) MA MCP CT RCP
Type III (Reduced NJ)
Type IV (CLP SOW)
Type VI (Raw Data Only)

SDG Complete? Yes No

Site-specific QC (MS/MSD/Dup)? Yes No
(If yes, indicate QC sample and submit triplicate volume.)
Internal COC Required? Yes / No

(9)

Relinquished by:	Date	Time	Received by:	Date	Time
Bottle Storage	6-27-07	0820	[illegible]	6-27-07	0820
[illegible]	6-27-07	0830	Matthew J. Miller	6-26-07	1600
Matthew J. Miller	6-27-07	1555			
			Traci Bedard	6/27/07	1555

Lancaster Laboratories, Inc., 2425 New Holland Pike, Lancaster, PA 17601 (717) 656-2300 Fax: (717) 656-6766
Copies: White and yellow should accompany samples to Lancaster Laboratories. The pink copy should be retained by the client.

2102.03

Lancaster Laboratories
Explanation of Symbols and Abbreviations

The following defines common symbols and abbreviations used in reporting technical data:

N.D.	none detected	**BMQL**	Below Minimum Quantitation Level
TNTC	Too Numerous To Count	**MPN**	Most Probable Number
IU	International Units	**CP Units**	cobalt-chloroplatinate units
umhos/cm	micromhos/cm	**NTU**	nephelometric turbidity units
C	degrees Celsius	**F**	degrees Fahrenheit
Cal	(diet) calories	**lb.**	pound(s)
meq	milliequivalents	**kg**	kilogram(s)
g	gram(s)	**mg**	milligram(s)
ug	microgram(s)	**l**	liter(s)
ml	milliliter(s)	**ul**	microliter(s)
m3	cubic meter(s)	**fib >5 um/ml**	fibers greater than 5 microns in length per ml

< less than – The number following the sign is the limit of quantitation, the smallest amount of analyte which can be reliably determined using this specific test.

> greater than

ppm parts per million – One ppm is equivalent to one milligram per kilogram (mg/kg), or one gram per million grams. For aqueous liquids, ppm is usually taken to be equivalent to milligrams per liter (mg/l), because one liter of water has a weight very close to a kilogram. For gases or vapors, one ppm is equivalent to one microliter of gas per liter of gas.

ppb parts per billion

Dry weight basis Results printed under this heading have been adjusted for moisture content. This increases the analyte weight concentration to approximate the value present in a similar sample without moisture.

U.S. EPA data qualifiers:

Organic Qualifiers

A	TIC is a possible aldol-condensation product
B	Analyte was also detected in the blank
C	Pesticide result confirmed by GC/MS
D	Compound quatitated on a diluted sample
E	Concentration exceeds the calibration range of the instrument
J	Estimated value
N	Presumptive evidence of a compound (TICs only)
P	Concentration difference between primary and confirmation columns >25%
U	Compound was not detected
X,Y,Z	Defined in case narrative

Inorganic Qualifiers

B	Value is <CRDL, but ≥IDL
E	Estimated due to interference
M	Duplicate injection precision not met
N	Spike amount not within control limits
S	Method of standard additions (MSA) used for calculation
U	Compound was not detected
W	Post digestion spike out of control limits
*****	Duplicate analysis not within control limits
+	Correlation coefficient for MSA <0.995

Analytical test results for methods listed on the laboratories' accreditation scope meet all requirements of NELAC unless otherwise noted under the individual analysis.

Tests results relate only to the sample tested. Clients should be aware that a critical step in a chemical or microbiological analysis is the collection of the sample. Unless the sample analyzed is truly representative of the bulk of material involved, the test results will be meaningless. If you have questions regarding the proper techniques of collecting samples, please contact us. We cannot be held responsible for sample integrity, however, unless sampling has been performed by a member of our staff. This report shall not be reproduced except in full, without the written approval of the laboratory.

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Lancaster Laboratories

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Analysis Report

ANALYTICAL RESULTS

Prepared for:

Conestoga-Rovers & Associates
2055 Niagara Falls Blvd
Suite #3
Niagara Falls NY 14304

716-297-2160

Prepared by:

Lancaster Laboratories
2425 New Holland Pike
Lancaster, PA 17605-2425

SAMPLE GROUP

The sample group for this submittal is 1047347. Samples arrived at the laboratory on Monday, July 16, 2007. The PO# for this group is 4005526.

Client Description	Lancaster Labs Number
PZ-80S Grab Water Sample	5105473
PZ-80I Grab Water Sample	5105474
DECON Grab Water Sample	5105475

1 COPY TO CRA Attn: Rich Burns

Lancaster Laboratories

Analysis Report

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Questions? Contact your Client Services Representative
Angela M Miller at (717) 656-2300

Respectfully Submitted,

Max E. Snavely
Senior Specialist

Lancaster Laboratories

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Analysis Report

Lancaster Laboratories Sample No. WW 5105473

PZ-80S Grab Water Sample
CRA Project# 013706
013706
Collected:07/16/2007 07:15 by MM

Account Number: 11938

Submitted: 07/16/2007 18:30
Reported: 07/23/2007 at 12:00
Discard: 08/23/2007

Conestoga-Rovers & Associates
2055 Niagara Falls Blvd
Suite #3
Niagara Falls NY 14304

PZ80S

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Limit of Quantitation	Units	Dilution Factor
00259	Mercury	7439-97-6	< 0.00020	0.00020	mg/l	1
07035	Arsenic	7440-38-2	< 0.0200	0.0200	mg/l	1
07036	Selenium	7782-49-2	< 0.0200	0.0200	mg/l	1
07046	Barium	7440-39-3	0.0426	0.0050	mg/l	1
07049	Cadmium	7440-43-9	< 0.0050	0.0050	mg/l	1
07051	Chromium	7440-47-3	< 0.0150	0.0150	mg/l	1
07055	Lead	7439-92-1	< 0.0150	0.0150	mg/l	1
07066	Silver	7440-22-4	< 0.0050	0.0050	mg/l	1
06291	TCL by 8260 (water)					
05385	Chloromethane	74-87-3	< 5.	5.	ug/l	1
05386	Vinyl Chloride	75-01-4	< 5.	5.	ug/l	1
05387	Bromomethane	74-83-9	< 5.	5.	ug/l	1
05388	Chloroethane	75-00-3	< 5.	5.	ug/l	1
05390	1,1-Dichloroethene	75-35-4	< 5.	5.	ug/l	1
05391	Methylene Chloride	75-09-2	< 5.	5.	ug/l	1
05392	trans-1,2-Dichloroethene	156-60-5	< 5.	5.	ug/l	1
05393	1,1-Dichloroethane	75-34-3	< 5.	5.	ug/l	1
05395	cis-1,2-Dichloroethene	156-59-2	< 5.	5.	ug/l	1
05396	Chloroform	67-66-3	< 5.	5.	ug/l	1
05398	1,1,1-Trichloroethane	71-55-6	< 5.	5.	ug/l	1
05399	Carbon Tetrachloride	56-23-5	< 5.	5.	ug/l	1
05401	Benzene	71-43-2	< 5.	5.	ug/l	1
05402	1,2-Dichloroethane	107-06-2	< 5.	5.	ug/l	1
05403	Trichloroethene	79-01-6	< 5.	5.	ug/l	1
05404	1,2-Dichloropropane	78-87-5	< 5.	5.	ug/l	1
05406	Bromodichloromethane	75-27-4	< 5.	5.	ug/l	1
05407	Toluene	108-88-3	< 5.	5.	ug/l	1
05408	1,1,2-Trichloroethane	79-00-5	< 5.	5.	ug/l	1
05409	Tetrachloroethene	127-18-4	< 5.	5.	ug/l	1
05411	Dibromochloromethane	124-48-1	< 5.	5.	ug/l	1
05413	Chlorobenzene	108-90-7	< 5.	5.	ug/l	1
05415	Ethylbenzene	100-41-4	< 5.	5.	ug/l	1
05418	Styrene	100-42-5	< 5.	5.	ug/l	1
05419	Bromoform	75-25-2	< 5.	5.	ug/l	1
05421	1,1,2,2-Tetrachloroethane	79-34-5	< 5.	5.	ug/l	1
06302	Acetone	67-64-1	< 20.	20.	ug/l	1
06303	Carbon Disulfide	75-15-0	< 5.	5.	ug/l	1
06305	2-Butanone	78-93-3	< 10.	10.	ug/l	1
06306	trans-1,3-Dichloropropene	10061-02-6	< 5.	5.	ug/l	1

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Analysis Report

Lancaster Laboratories Sample No. WW 5105473

PZ-80S Grab Water Sample
CRA Project# 013706
013706
Collected:07/16/2007 07:15 by MM

Account Number: 11938

Submitted: 07/16/2007 18:30
Reported: 07/23/2007 at 12:00
Discard: 08/23/2007

Conestoga-Rovers & Associates
2055 Niagara Falls Blvd
Suite #3
Niagara Falls NY 14304

PZ80S

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Limit of Quantitation	Units	Dilution Factor
06307	cis-1,3-Dichloropropene	10061-01-5	< 5.	5.	ug/l	1
06308	4-Methyl-2-pentanone	108-10-1	< 10.	10.	ug/l	1
06309	2-Hexanone	591-78-6	< 10.	10.	ug/l	1
06310	Xylene (Total)	1330-20-7	< 5.	5.	ug/l	1

Commonwealth of Pennsylvania Lab Certification No. 36-037
Trip blank vials were not received by the laboratory for this sample group.

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Chronicle

CAT No.	Analysis Name	Method	Trial#	Analysis Date and Time	Analyst	Dilution Factor
00259	Mercury	SW-846 7470A	1	07/20/2007 03:43	Damary Valentin	1
07035	Arsenic	SW-846 6010B	1	07/22/2007 13:17	Damary Valentin	1
07036	Selenium	SW-846 6010B	1	07/22/2007 13:17	Damary Valentin	1
07046	Barium	SW-846 6010B	1	07/22/2007 13:17	Damary Valentin	1
07049	Cadmium	SW-846 6010B	1	07/22/2007 13:17	Damary Valentin	1
07051	Chromium	SW-846 6010B	1	07/22/2007 13:17	Damary Valentin	1
07055	Lead	SW-846 6010B	1	07/22/2007 13:17	Damary Valentin	1
07066	Silver	SW-846 6010B	1	07/22/2007 13:17	Damary Valentin	1
06291	TCL by 8260 (water)	SW-846 8260B	1	07/20/2007 20:00	Kerri E Koch	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	07/20/2007 20:00	Kerri E Koch	1
01848	WW SW846 ICP Digest (tot rec)	SW-846 3005A	1	07/20/2007 14:50	Mirit S Shenouda	1
05713	WW SW846 Hg Digest	SW-846 7470A	1	07/19/2007 18:30	Nelli S Markaryan	1

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Analysis Report

Lancaster Laboratories Sample No. WW 5105474

PZ-80I Grab Water Sample
CRA Project# 013706
013706
Collected:07/16/2007 07:30 by MM

Account Number: 11938

Submitted: 07/16/2007 18:30
Reported: 07/23/2007 at 12:00
Discard: 08/23/2007

Conestoga-Rovers & Associates
2055 Niagara Falls Blvd
Suite #3
Niagara Falls NY 14304

PZ80I

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Limit of Quantitation	Units	Dilution Factor
00259	Mercury	7439-97-6	< 0.00020	0.00020	mg/l	1
07035	Arsenic	7440-38-2	< 0.0200	0.0200	mg/l	1
07036	Selenium	7782-49-2	< 0.0200	0.0200	mg/l	1
07046	Barium	7440-39-3	0.862	0.0050	mg/l	1
07049	Cadmium	7440-43-9	< 0.0050	0.0050	mg/l	1
07051	Chromium	7440-47-3	0.0154	0.0150	mg/l	1
07055	Lead	7439-92-1	< 0.0150	0.0150	mg/l	1
07066	Silver	7440-22-4	< 0.0050	0.0050	mg/l	1
06291	TCL by 8260 (water)					
05385	Chloromethane	74-87-3	< 5.	5.	ug/l	1
05386	Vinyl Chloride	75-01-4	< 5.	5.	ug/l	1
05387	Bromomethane	74-83-9	< 5.	5.	ug/l	1
05388	Chloroethane	75-00-3	< 5.	5.	ug/l	1
05390	1,1-Dichloroethene	75-35-4	< 5.	5.	ug/l	1
05391	Methylene Chloride	75-09-2	< 5.	5.	ug/l	1
05392	trans-1,2-Dichloroethene	156-60-5	< 5.	5.	ug/l	1
05393	1,1-Dichloroethane	75-34-3	< 5.	5.	ug/l	1
05395	cis-1,2-Dichloroethene	156-59-2	< 5.	5.	ug/l	1
05396	Chloroform	67-66-3	< 5.	5.	ug/l	1
05398	1,1,1-Trichloroethane	71-55-6	< 5.	5.	ug/l	1
05399	Carbon Tetrachloride	56-23-5	< 5.	5.	ug/l	1
05401	Benzene	71-43-2	< 5.	5.	ug/l	1
05402	1,2-Dichloroethane	107-06-2	< 5.	5.	ug/l	1
05403	Trichloroethene	79-01-6	< 5.	5.	ug/l	1
05404	1,2-Dichloropropane	78-87-5	< 5.	5.	ug/l	1
05406	Bromodichloromethane	75-27-4	< 5.	5.	ug/l	1
05407	Toluene	108-88-3	< 5.	5.	ug/l	1
05408	1,1,2-Trichloroethane	79-00-5	< 5.	5.	ug/l	1
05409	Tetrachloroethene	127-18-4	< 5.	5.	ug/l	1
05411	Dibromochloromethane	124-48-1	< 5.	5.	ug/l	1
05413	Chlorobenzene	108-90-7	< 5.	5.	ug/l	1
05415	Ethylbenzene	100-41-4	< 5.	5.	ug/l	1
05418	Styrene	100-42-5	< 5.	5.	ug/l	1
05419	Bromoform	75-25-2	< 5.	5.	ug/l	1
05421	1,1,2,2-Tetrachloroethane	79-34-5	< 5.	5.	ug/l	1
06302	Acetone	67-64-1	< 20.	20.	ug/l	1
06303	Carbon Disulfide	75-15-0	< 5.	5.	ug/l	1
06305	2-Butanone	78-93-3	< 10.	10.	ug/l	1
06306	trans-1,3-Dichloropropene	10061-02-6	< 5.	5.	ug/l	1

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Analysis Report

Lancaster Laboratories Sample No. WW 5105474

PZ-80I Grab Water Sample
CRA Project# 013706
013706
Collected:07/16/2007 07:30 by MM

Account Number: 11938

Submitted: 07/16/2007 18:30
Reported: 07/23/2007 at 12:00
Discard: 08/23/2007

Conestoga-Rovers & Associates
2055 Niagara Falls Blvd
Suite #3
Niagara Falls NY 14304

PZ80I

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Limit of Quantitation	Units	Dilution Factor
06307	cis-1,3-Dichloropropene	10061-01-5	< 5.	5.	ug/l	1
06308	4-Methyl-2-pentanone	108-10-1	< 10.	10.	ug/l	1
06309	2-Hexanone	591-78-6	< 10.	10.	ug/l	1
06310	Xylene (Total)	1330-20-7	< 5.	5.	ug/l	1

Commonwealth of Pennsylvania Lab Certification No. 36-037
Trip blank vials were not received by the laboratory for this sample group.

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Chronicle

CAT No.	Analysis Name	Method	Trial#	Analysis Date and Time	Analyst	Dilution Factor
00259	Mercury	SW-846 7470A	1	07/20/2007 03:44	Damary Valentin	1
07035	Arsenic	SW-846 6010B	1	07/22/2007 13:22	Damary Valentin	1
07036	Selenium	SW-846 6010B	1	07/22/2007 13:22	Damary Valentin	1
07046	Barium	SW-846 6010B	1	07/22/2007 13:22	Damary Valentin	1
07049	Cadmium	SW-846 6010B	1	07/22/2007 13:22	Damary Valentin	1
07051	Chromium	SW-846 6010B	1	07/22/2007 13:22	Damary Valentin	1
07055	Lead	SW-846 6010B	1	07/22/2007 13:22	Damary Valentin	1
07066	Silver	SW-846 6010B	1	07/22/2007 13:22	Damary Valentin	1
06291	TCL by 8260 (water)	SW-846 8260B	1	07/20/2007 20:30	Kerri E Koch	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	07/20/2007 20:30	Kerri E Koch	1
01848	WW SW846 ICP Digest (tot rec)	SW-846 3005A	1	07/20/2007 14:50	Mirit S Shenouda	1
05713	WW SW846 Hg Digest	SW-846 7470A	1	07/19/2007 18:30	Nelli S Markaryan	1

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Analysis Report

Lancaster Laboratories Sample No. WW 5105475

DECON Grab Water Sample
CRA Project# 013706
013706
Collected:07/16/2007 07:45 by MM

Account Number: 11938

Submitted: 07/16/2007 18:30
Reported: 07/23/2007 at 12:00
Discard: 08/23/2007

Conestoga-Rovers & Associates
2055 Niagara Falls Blvd
Suite #3
Niagara Falls NY 14304

DECON

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Limit of Quantitation	Units	Dilution Factor
00259	Mercury	7439-97-6	< 0.00020	0.00020	mg/l	1
07035	Arsenic	7440-38-2	< 0.0200	0.0200	mg/l	1
07036	Selenium	7782-49-2	< 0.0200	0.0200	mg/l	1
07046	Barium	7440-39-3	0.614	0.0050	mg/l	1
07049	Cadmium	7440-43-9	< 0.0050	0.0050	mg/l	1
07051	Chromium	7440-47-3	< 0.0150	0.0150	mg/l	1
07055	Lead	7439-92-1	< 0.0150	0.0150	mg/l	1
07066	Silver	7440-22-4	< 0.0050	0.0050	mg/l	1
06291	TCL by 8260 (water)					
05385	Chloromethane	74-87-3	< 5.	5.	ug/l	1
05386	Vinyl Chloride	75-01-4	< 5.	5.	ug/l	1
05387	Bromomethane	74-83-9	< 5.	5.	ug/l	1
05388	Chloroethane	75-00-3	< 5.	5.	ug/l	1
05390	1,1-Dichloroethene	75-35-4	< 5.	5.	ug/l	1
05391	Methylene Chloride	75-09-2	< 5.	5.	ug/l	1
05392	trans-1,2-Dichloroethene	156-60-5	< 5.	5.	ug/l	1
05393	1,1-Dichloroethane	75-34-3	< 5.	5.	ug/l	1
05395	cis-1,2-Dichloroethene	156-59-2	< 5.	5.	ug/l	1
05396	Chloroform	67-66-3	< 5.	5.	ug/l	1
05398	1,1,1-Trichloroethane	71-55-6	< 5.	5.	ug/l	1
05399	Carbon Tetrachloride	56-23-5	< 5.	5.	ug/l	1
05401	Benzene	71-43-2	< 5.	5.	ug/l	1
05402	1,2-Dichloroethane	107-06-2	< 5.	5.	ug/l	1
05403	Trichloroethene	79-01-6	< 5.	5.	ug/l	1
05404	1,2-Dichloropropane	78-87-5	< 5.	5.	ug/l	1
05406	Bromodichloromethane	75-27-4	< 5.	5.	ug/l	1
05407	Toluene	108-88-3	< 5.	5.	ug/l	1
05408	1,1,2-Trichloroethane	79-00-5	< 5.	5.	ug/l	1
05409	Tetrachloroethene	127-18-4	< 5.	5.	ug/l	1
05411	Dibromochloromethane	124-48-1	< 5.	5.	ug/l	1
05413	Chlorobenzene	108-90-7	< 5.	5.	ug/l	1
05415	Ethylbenzene	100-41-4	< 5.	5.	ug/l	1
05418	Styrene	100-42-5	< 5.	5.	ug/l	1
05419	Bromoform	75-25-2	< 5.	5.	ug/l	1
05421	1,1,2,2-Tetrachloroethane	79-34-5	< 5.	5.	ug/l	1
06302	Acetone	67-64-1	< 20.	20.	ug/l	1
06303	Carbon Disulfide	75-15-0	< 5.	5.	ug/l	1
06305	2-Butanone	78-93-3	< 10.	10.	ug/l	1
06306	trans-1,3-Dichloropropene	10061-02-6	< 5.	5.	ug/l	1

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Analysis Report

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Lancaster Laboratories Sample No. WW 5105475

DECON Grab Water Sample
CRA Project# 013706
013706
Collected:07/16/2007 07:45 by MM

Account Number: 11938

Submitted: 07/16/2007 18:30
Reported: 07/23/2007 at 12:00
Discard: 08/23/2007

Conestoga-Rovers & Associates
2055 Niagara Falls Blvd
Suite #3
Niagara Falls NY 14304

DECON

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Limit of Quantitation	Units	Dilution Factor
06307	cis-1,3-Dichloropropene	10061-01-5	< 5.	5.	ug/l	1
06308	4-Methyl-2-pentanone	108-10-1	< 10.	10.	ug/l	1
06309	2-Hexanone	591-78-6	< 10.	10.	ug/l	1
06310	Xylene (Total)	1330-20-7	< 5.	5.	ug/l	1

Commonwealth of Pennsylvania Lab Certification No. 36-037
Trip blank vials were not received by the laboratory for this sample group.

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Chronicle

CAT No.	Analysis Name	Method	Trial#	Analysis Date and Time	Analyst	Dilution Factor
00259	Mercury	SW-846 7470A	1	07/20/2007 03:46	Damary Valentin	1
07035	Arsenic	SW-846 6010B	1	07/22/2007 13:36	Damary Valentin	1
07036	Selenium	SW-846 6010B	1	07/22/2007 13:36	Damary Valentin	1
07046	Barium	SW-846 6010B	1	07/22/2007 13:36	Damary Valentin	1
07049	Cadmium	SW-846 6010B	1	07/22/2007 13:36	Damary Valentin	1
07051	Chromium	SW-846 6010B	1	07/22/2007 13:36	Damary Valentin	1
07055	Lead	SW-846 6010B	1	07/22/2007 13:36	Damary Valentin	1
07066	Silver	SW-846 6010B	1	07/22/2007 13:36	Damary Valentin	1
06291	TCL by 8260 (water)	SW-846 8260B	1	07/20/2007 19:14	Kerri E Koch	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	07/20/2007 19:14	Kerri E Koch	1
01848	WW SW846 ICP Digest (tot rec)	SW-846 3005A	1	07/20/2007 14:50	Mirit S Shenouda	1
05713	WW SW846 Hg Digest	SW-846 7470A	1	07/19/2007 18:30	Nelli S Markaryan	1

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Analysis Report

Quality Control Summary

Client Name: Conestoga-Rovers & Associates
Reported: 07/23/07 at 12:00 PM

Group Number: 1047347

Matrix QC may not be reported if site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD was performed, unless otherwise specified in the method.

Laboratory Compliance Quality Control

Analysis Name	Blank Result	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Batch number: 072001848001	Sample number(s): 5105473-5105475							
Arsenic	< 0.0200	0.0200	mg/l	102		90-119		
Selenium	< 0.0200	0.0200	mg/l	100		80-120		
Barium	< 0.0050	0.0050	mg/l	99		90-110		
Cadmium	< 0.0050	0.0050	mg/l	99		90-112		
Chromium	< 0.0150	0.0150	mg/l	102		90-110		
Lead	< 0.0150	0.0150	mg/l	101		90-113		
Silver	< 0.0050	0.0050	mg/l	99		90-118		
Batch number: 072005713003	Sample number(s): 5105473-5105475							
Mercury	< 0.00020	0.00020	mg/l	94		80-120		
Batch number: L072011AA	Sample number(s): 5105473-5105475							
Chloromethane	< 5.	5.	ug/l	90		47-132		
Vinyl Chloride	< 5.	5.	ug/l	93		54-123		
Bromomethane	< 5.	5.	ug/l	96		47-129		
Chloroethane	< 5.	5.	ug/l	91		57-125		
1,1-Dichloroethene	< 5.	5.	ug/l	106		76-122		
Methylene Chloride	< 5.	5.	ug/l	110		85-120		
trans-1,2-Dichloroethene	< 5.	5.	ug/l	108		83-117		
1,1-Dichloroethane	< 5.	5.	ug/l	104		83-127		
cis-1,2-Dichloroethene	< 5.	5.	ug/l	109		84-117		
Chloroform	< 5.	5.	ug/l	107		86-124		
1,1,1-Trichloroethane	< 5.	5.	ug/l	103		83-127		
Carbon Tetrachloride	< 5.	5.	ug/l	101		77-130		
Benzene	< 5.	5.	ug/l	110		78-119		
1,2-Dichloroethane	< 5.	5.	ug/l	105		77-132		
Trichloroethene	< 5.	5.	ug/l	110		87-117		
1,2-Dichloropropane	< 5.	5.	ug/l	112		80-117		
Bromodichloromethane	< 5.	5.	ug/l	104		83-121		
Toluene	< 5.	5.	ug/l	106		85-115		
1,1,2-Trichloroethane	< 5.	5.	ug/l	106		86-113		
Tetrachloroethene	< 5.	5.	ug/l	101		74-125		
Dibromochloromethane	< 5.	5.	ug/l	97		78-119		
Chlorobenzene	< 5.	5.	ug/l	107		85-115		
Ethylbenzene	< 5.	5.	ug/l	105		82-119		
Styrene	< 5.	5.	ug/l	106		82-111		
Bromoform	< 5.	5.	ug/l	92		69-118		
1,1,2,2-Tetrachloroethane	< 5.	5.	ug/l	114		72-119		
Acetone	< 20.	20.	ug/l	133		32-200		
Carbon Disulfide	< 5.	5.	ug/l	91		69-119		
2-Butanone	< 10.	10.	ug/l	122		52-163		
trans-1,3-Dichloropropene	< 5.	5.	ug/l	95		79-114		
cis-1,3-Dichloropropene	< 5.	5.	ug/l	106		78-114		
4-Methyl-2-pentanone	< 10.	10.	ug/l	114		70-130		
2-Hexanone	< 10.	10.	ug/l	118		61-140		

*- Outside of specification
(1) The result for one or both determinations was less than five times the LOQ.
(2) The background result was more than four times the spike added.

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Analysis Report

Quality Control Summary

Client Name: Conestoga-Rovers & Associates Group Number: 1047347
Reported: 07/23/07 at 12:00 PM

Laboratory Compliance Quality Control

Analysis Name	Blank Result	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Xylene (Total)	< 5.	5.	ug/l	107		83-113		

Sample Matrix Quality Control

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike
Background (BKG) = the sample used in conjunction with the duplicate

Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
Batch number: 072001848001	Sample number(s): 5105473-5105475 UNSPK: P105783 BKG: P105783								
Arsenic	103	108	75-125	5	20	< 0.0200	< 0.0200	144* (1)	20
Selenium	102	102	75-125	0	20	< 0.0200	< 0.0200	200* (1)	20
Barium	97	99	75-125	2	20	0.0301	0.0290	4	20
Cadmium	97	100	83-116	3	20	< 0.0050	< 0.0050	59* (1)	20
Chromium	101	102	81-120	2	20	< 0.0150	< 0.0150	200* (1)	20
Lead	99	101	75-125	2	20	< 0.0150	< 0.0150	85* (1)	20
Silver	99	101	75-125	1	20	< 0.0050	< 0.0050	27* (1)	20
Batch number: 072005713003	Sample number(s): 5105473-5105475 UNSPK: P105479 BKG: P105479								
Mercury	124*	94	80-120	28*	20	< 0.00020	< 0.00020	0 (1)	20
Batch number: L072011AA	Sample number(s): 5105473-5105475 UNSPK: P102198								
Chloromethane	98	99	46-149	2	30				
Vinyl Chloride	102	104	54-143	2	30				
Bromomethane	103	105	52-141	2	30				
Chloroethane	98	101	56-140	4	30				
1,1-Dichloroethene	118	119	87-145	1	30				
Methylene Chloride	108	112	79-133	3	30				
trans-1,2-Dichloroethene	118	120	82-133	2	30				
1,1-Dichloroethane	113	117	85-135	4	30				
cis-1,2-Dichloroethene	116	118	83-126	2	30				
Chloroform	112	115	83-139	3	30				
1,1,1-Trichloroethane	110	112	81-142	1	30				
Carbon Tetrachloride	111	111	82-149	0	30				
Benzene	119	120	83-128	1	30				
1,2-Dichloroethane	108	109	70-143	1	30				
Trichloroethene	117	119	83-136	2	30				
1,2-Dichloropropane	119	121	83-129	2	30				
Bromodichloromethane	109	109	80-129	1	30				
Toluene	113	116	83-127	3	30				
1,1,2-Trichloroethane	110	116	77-125	5	30				
Tetrachloroethene	109	111	78-133	2	30				
Dibromochloromethane	101	103	82-119	2	30				
Chlorobenzene	113	117	83-120	3	30				
Ethylbenzene	113	114	82-129	1	30				
Styrene	112	114	69-131	2	30				
Bromoform	93	96	64-119	4	30				
1,1,2,2-Tetrachloroethane	112	115	73-121	3	30				
Acetone	98	99	48-143	1	30				
Carbon Disulfide	100	102	74-135	2	30				
2-Butanone	112	115	57-137	2	30				
trans-1,3-Dichloropropene	97	102	77-123	4	30				
cis-1,3-Dichloropropene	105	105	80-126	0	30				

*- Outside of specification
(1) The result for one or both determinations was less than five times the LOQ.
(2) The background result was more than four times the spike added.

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Analysis Report

Quality Control Summary

Client Name: Conestoga-Rovers & Associates
Reported: 07/23/07 at 12:00 PM

Group Number: 1047347

Sample Matrix Quality Control

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike
Background (BKG) = the sample used in conjunction with the duplicate

Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
4-Methyl-2-pentanone	114	121	68-133	6	30				
2-Hexanone	113	117	60-135	3	30				
Xylene (Total)	115	116	82-130	2	30				

Surrogate Quality Control

Surrogate recoveries which are outside of the QC window are confirmed unless attributed to dilution or otherwise noted on the Analysis Report.

Analysis Name: TCL by 8260 (water)
Batch number: L072011AA

	Dibromofluoromethane	1,2-Dichloroethane-d4	Toluene-d8	4-Bromofluorobenzene
5105473	100	97	92	91
5105474	100	97	92	91
5105475	99	96	93	92
Blank	96	96	92	90
LCS	93	94	95	95
MS	93	93	96	95
MSD	93	93	96	95
Limits:	80-116	77-113	80-113	78-113

*- Outside of specification
(1) The result for one or both determinations was less than five times the LOQ.
(2) The background result was more than four times the spike added.

11938 / 5105473-75 / 1047347

CHAIN OF CUSTODY RECORD

CONESTOGA-ROVERS & ASSOCIATES
Exton, PA

SHIPPED TO (Laboratory Name): Lancaster Laboratories
2425 New Holland Pike

REFERENCE NUMBER: 013706

SAMPLER'S SIGNATURE: Matthew J Miller
PRINTED NAME: Matthew Miller

SEQ. No.	DATE	TIME	SAMPLE No.	SAMPLE TYPE	No. of Containers	PARAMETERS: Total VOCs	PARAMETERS: RCRA Metals	REMARKS
	7/16/07	0715	PZ-80S	Water	4	X	X	5 day TAT
	↓	0730	PZ-80I	↓	4	X	X	
	↓	0745	DECON	↓	4	X	X	

TOTAL NUMBER OF CONTAINERS: 12

HEALTH/CHEMICAL HAZARDS:

RELINQUISHED BY: ① Matthew Miller	DATE: 7-16-07 TIME: 1145	RECEIVED BY: ① [signature]	DATE: 7/16/07 TIME: 1700
RELINQUISHED BY: ② [signature]	DATE: 7-16-07 TIME: 1830	RECEIVED BY: ②	DATE: TIME:
RELINQUISHED BY: ③	DATE: TIME:	RECEIVED BY: ③ Genesis D'Olio	DATE: 7/16/07 TIME: 1830

METHOD OF SHIPMENT:

WAY BILL No.

White –Fully Executed Copy
Yellow –Receiving Laboratory Copy
Pink –Shipper Copy
Goldenrod –Sampler Copy

SAMPLE TEAM: M. Miller

RECEIVED FOR LABORATORY BY:

DATE: TIME:

No CRA 00380

1001 (D) APR 28/97(NF) REV. 0 (F-15)

Lancaster Laboratories
Explanation of Symbols and Abbreviations

The following defines common symbols and abbreviations used in reporting technical data:

N.D.	none detected	**BMQL**	Below Minimum Quantitation Level
TNTC	Too Numerous To Count	**MPN**	Most Probable Number
IU	International Units	**CP Units**	cobalt-chloroplatinate units
umhos/cm	micromhos/cm	**NTU**	nephelometric turbidity units
C	degrees Celsius	**F**	degrees Fahrenheit
Cal	(diet) calories	**lb.**	pound(s)
meq	milliequivalents	**kg**	kilogram(s)
g	gram(s)	**mg**	milligram(s)
ug	microgram(s)	**l**	liter(s)
ml	milliliter(s)	**ul**	microliter(s)
m3	cubic meter(s)	**fib >5 um/ml**	fibers greater than 5 microns in length per ml

< less than – The number following the sign is the limit of quantitation, the smallest amount of analyte which can be reliably determined using this specific test.

> greater than

ppm parts per million – One ppm is equivalent to one milligram per kilogram (mg/kg), or one gram per million grams. For aqueous liquids, ppm is usually taken to be equivalent to milligrams per liter (mg/l), because one liter of water has a weight very close to a kilogram. For gases or vapors, one ppm is equivalent to one microliter of gas per liter of gas.

ppb parts per billion

Dry weight basis Results printed under this heading have been adjusted for moisture content. This increases the analyte weight concentration to approximate the value present in a similar sample without moisture.

U.S. EPA data qualifiers:

Organic Qualifiers

A	TIC is a possible aldol-condensation product
B	Analyte was also detected in the blank
C	Pesticide result confirmed by GC/MS
D	Compound quatitated on a diluted sample
E	Concentration exceeds the calibration range of the instrument
J	Estimated value
N	Presumptive evidence of a compound (TICs only)
P	Concentration difference between primary and confirmation columns >25%
U	Compound was not detected
X,Y,Z	Defined in case narrative

Inorganic Qualifiers

B	Value is <CRDL, but ≥IDL
E	Estimated due to interference
M	Duplicate injection precision not met
N	Spike amount not within control limits
S	Method of standard additions (MSA) used for calculation
U	Compound was not detected
W	Post digestion spike out of control limits
*****	Duplicate analysis not within control limits
+	Correlation coefficient for MSA <0.995

Analytical test results for methods listed on the laboratories' accreditation scope meet all requirements of NELAC unless otherwise noted under the individual analysis.

Tests results relate only to the sample tested. Clients should be aware that a critical step in a chemical or microbiological analysis is the collection of the sample. Unless the sample analyzed is truly representative of the bulk of material involved, the test results will be meaningless. If you have questions regarding the proper techniques of collecting samples, please contact us. We cannot be held responsible for sample integrity, however, unless sampling has been performed by a member of our staff. This report shall not be reproduced except in full, without the written approval of the laboratory.

WARRANTY AND LIMITS OF LIABILITY – In accepting analytical work, we warrant the accuracy of test results for the sample as submitted. THE FOREGOING EXPRESS WARRANTY IS EXCLUSIVE AND IS GIVEN IN LIEU OF ALL OTHER WARRANTIES, EXPRESSED OR IMPLIED. WE DISCLAIM ANY OTHER WARRANTIES, EXPRESSED OR IMPLIED, INCLUDING A WARRANTY OF FITNESS FOR PARTICULAR PURPOSE AND WARRANTY OF MERCHANTABILITY. IN NO EVENT SHALL LANCASTER LABORATORIES BE LIABLE FOR INDIRECT, SPECIAL, CONSEQUENTIAL, OR INCIDENTAL DAMAGES INCLUDING, BUT NOT LIMITED TO, DAMAGES FOR LOSS OF PROFIT OR GOODWILL REGARDLESS OF (A) THE NEGLIGENCE (EITHER SOLE OR CONCURRENT) OF LANCASTER LABORATORIES AND (B) WHETHER LANCASTER LABORATORIES HAS BEEN INFORMED OF THE POSSIBILITY OF SUCH DAMAGES. We accept no legal responsibility for the purposes for which the client uses the test results. No purchase order or other order for work shall be accepted by Lancaster Laboratories which includes any conditions that vary from the Standard Terms and Conditions of Lancaster Laboratories and we hereby object to any conflicting terms contained in any acceptance or order submitted by client.

WYNDHAM WORLDWIDE Hotels Timeshare Resorts Vacation Re

History for KPASINKI1

Spring Township, Reading, PA — Current Conditions

Custom Summary for July 3, 2007 - July 31, 2007

	High:	Low:	Average:
Temperature:	**93.8** °F / **34.3** °C	**52.4** °F / **11.3** °C	**74.1** °F / **23.4** °C
Dew Point:	**77.9** °F / **25.5** °C	**44.9** °F / **7.2** °C	**63.2** °F / **17.3** °C
Humidity:	100.0%	34.0%	70.9%
Wind Speed:	**22.0**mph / **35.4**km/h from the North	-	**2.6**mph / **4.2**km/h
Wind Gust:	**29.0**mph / **46.7**km/h from the SW	-	-
Wind:	-	-	SW
Pressure:	**30.25**in / **1024.3**hPa	**29.63**in / **1003.3**hPa	-
Precipitation:	**5.86**in / **148.8**mm		

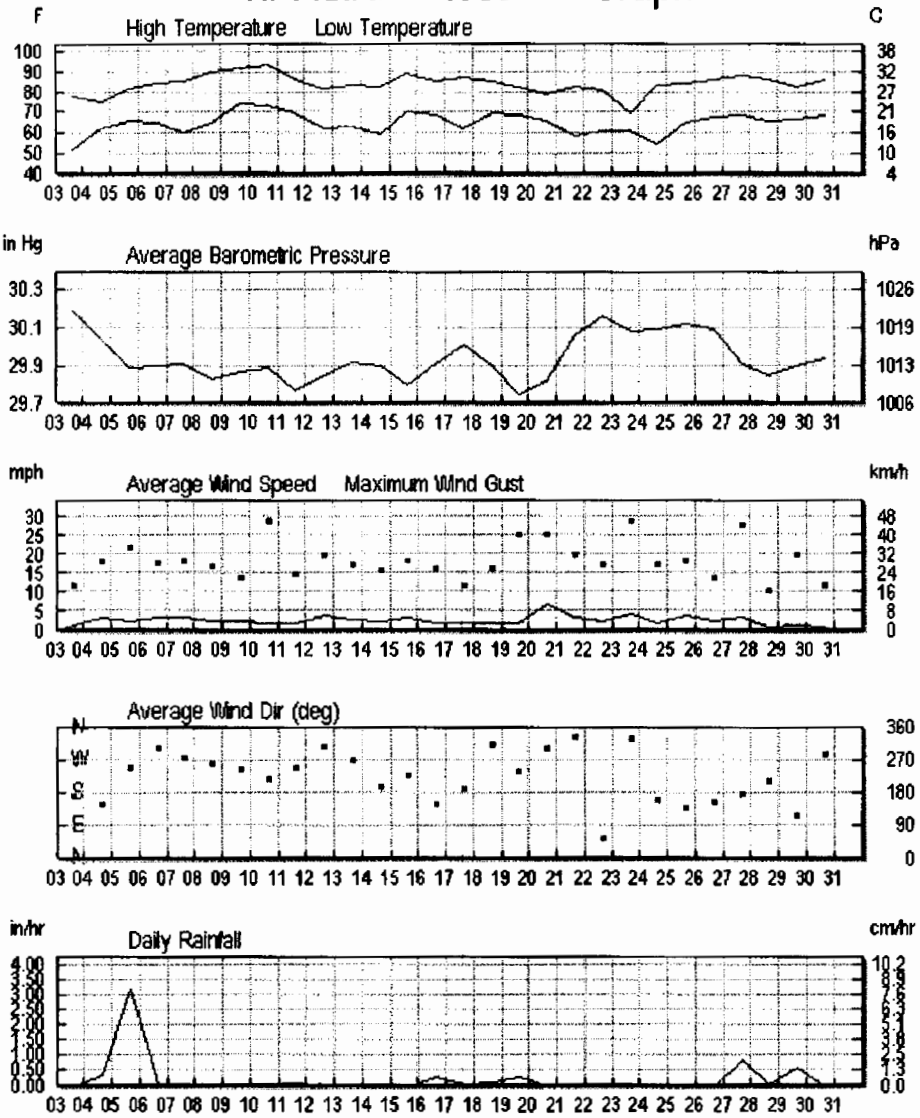
APPENDIX F

TRANSDUCER DATA
(Electronic CD Deliverable)

APPENDIX G

STREAMFLOW AND PRECIPITATION DATA

KPASINKI1 Weather Graph



Custom Date Range's Tabular Data

2007 Temp (°F)				Dew Point (°F)			Humidity (%)			Sea Level Pressure (in)			Visibility (mi)			Wind (mph)		Gust Speed (mph)	Precip (in)
July	high	avg	low	high	avg	low	high	avg	low	high	avg	low	high	avg	low	high	avg	high	sum
1	74	67	57	54	50	46	79	57	41	30.18	-	29.71	-	-	-	18	4	22	0.00
2	74	64	53	53	49	45	77	57	40	30.23	-	30.16	-	-	-	16	4	20	0.00
3	78	67	52	57	52	48	87	61	41	30.25	-	30.13	-	-	-	8	1	12	0.00
4	76	69	62	70	63	54	94	83	63	30.15	-	29.93	-	-	-	12	3	18	0.33
5	82	72	66	73	69	64	100	91	73	29.94	-	29.83	-	-	-	17	2	22	3.23
6	84	75	65	72	67	62	100	79	50	29.94	-	29.85	-	-	-	13	3	18	0.01
7	86	75	61	66	62	59	95	67	46	29.96	-	29.85	-	-	-	13	3	18	0.00
8	90	80	65	73	66	61	87	65	47	29.87	-	29.78	-	-	-	11	2	17	0.00
9	93	83	74	74	69	64	71	62	47	29.91	-	29.82	-	-	-	10	2	14	0.00

10	94	82	73	78	73	69	95	76	54	29.94	-	29.83	-	-	-	19	2	29	0.06
11	86	77	70	77	72	65	96	85	66	29.86	-	29.67	-	-	-	10	2	15	0.11
12	82	73	62	65	57	52	84	59	40	29.92	-	29.78	-	-	-	15	4	20	0.00
13	83	74	64	65	58	55	78	60	41	29.96	-	29.87	-	-	-	12	3	17	0.00
14	83	73	60	64	59	55	86	63	40	29.97	-	29.83	-	-	-	11	2	16	0.00
15	90	80	71	72	67	64	81	67	48	29.84	-	29.76	-	-	-	12	3	18	0.00
16	85	77	68	71	66	62	93	71	54	29.98	-	29.84	-	-	-	12	2	16	0.30
17	87	77	63	67	62	52	96	64	34	30.05	-	29.96	-	-	-	8	2	12	0.01
18	86	77	70	73	69	61	95	79	56	29.96	-	29.83	-	-	-	12	2	16	0.08
19	83	76	69	74	71	68	97	86	69	29.86	-	29.63	-	-	-	17	2	25	0.27
20	80	73	66	71	60	52	84	64	44	29.99	-	29.64	-	-	-	19	7	25	0.00
21	83	71	59	58	53	49	74	54	34	30.13	-	29.99	-	-	-	15	3	20	0.00
22	81	71	61	60	54	48	75	56	35	30.19	-	30.13	-	-	-	13	2	17	0.00
23	70	66	61	60	56	53	83	72	63	30.15	-	30.01	-	-	-	22	4	29	0.02
24	84	70	55	66	59	52	93	69	47	30.14	-	30.04	-	-	-	12	2	17	0.00
25	84	76	65	69	65	60	87	69	55	30.16	-	30.08	-	-	-	13	4	18	0.00
26	87	77	68	72	68	63	95	75	52	30.18	-	30.01	-	-	-	10	2	14	0.00
27	88	76	68	73	69	65	95	80	52	30.03	-	29.78	-	-	-	21	3	28	0.83
28	87	75	66	75	69	65	97	84	58	29.89	-	29.81	-	-	-	6	1	10	0.01
29	82	74	67	76	70	66	97	89	68	29.95	-	29.85	-	-	-	11	2	20	0.60
30	86	76	69	75	70	68	97	84	62	29.98	-	29.89	-	-	-	7	1	12	0.00
31	88	77	66	69	65	60	95	69	42	29.98	-	29.89	-	-	-	15	2	21	0.00

Comma Delimited File

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Water Resources

National Water Information System: Web Interface

Data Category: Real-time

Geographic Area: United States

GO

News: Available Now in NWISWeb

USGS 01471510 Schuylkill River at Reading, PA

PROVISIONAL DATA SUBJECT TO REVISION

Available data for this site Time-series: Real-time data GO

STATION.--01471510 SCHUYLKILL RIVER AT READING, PA
LOCATION.--Lat 40`20'05", long 75`56'12", Berks County, Hydrologic Unit 02040203, on left bank 200 ft downstream from bridge on Penn Street at Reading, and 1.0 mi downstream from Tulpehocken Creek.
DRAINAGE AREA.--880 mi2.
PERIOD OF RECORD.--May 1914 to September 1915, October 1919 to September 1930 and July 1977 to current year. Prior to October 1914 monthly discharge only, published in WSP 1302. Diversion by Schuylkill Navigation Canal included during the navigation seasons of 1914-15.
GAGE.--Water-stage recorder. Datum of gage is 185.50 ft above National Geodetic Vertical Datum of 1929 (Pennsylvania Railroad datum). May 7, 1914, to Sept. 30, 1930, and July 6, 1979, to Dec. 5, 1980, nonrecording gage. June 30, 1977, to July 5, 1979, water-stage recorder at site 1,500 ft downstream on right bank at same datum.
EXTREMES OUTSIDE PERIOD OF RECORD.--Flood of June 23, 1972, reached a stage of about 31.3 ft, at site 1,500 ft downstream, from floodmarks, discharge, about 90,000 ft3/s.
FLOOD STAGE.--NOAA, National Weather Service river forecast station flood stage provided to USGS April 1999 is 13 feet.
COOPERATION.--Funding for the operation of this station is provided by the U.S. Army Corps of Engineers.

	Available Parameters	Output format	Days	
☐	All 3 Available Parameters for this site	○ Graph	31	GO
☐	00060 Discharge	◉ Graph w/ stats	(1-31)	
☑	00065 Gage height	○ Graph w/o stats		
☐	00045 Precipitation	○ Table		
		○ Tab-separated		

Summary of additional data for this site

Gage height, feet (D

TIME	Jul 21	Jul 22	Jul 23	Jul 24	Jul 25	Jul 26	Jul 27	Jul 28	Jul 29	Jul 30	Jul 31	Aug 1	Aug 2	Aug 3	Aug 4	Aug 5	Au 6

USGS Schuykill River Gage Data June and July 2007

```
# ---------------------------------- WARNING
---------------------------------------
# The data you have obtained from this automated U.S. Geological Survey database
# have not received Director's approval and as such are provisional and subject to
# revision.  The data are released on the condition that neither the USGS nor the
# United States Government may be held liable for any damages resulting from its
use.
# Additional info: http://waterdata.usgs.gov/nwis/help/?provisional
#
# File-format description:
http://waterdata.usgs.gov/nwis/?tab_delimited_format_info
# Automated-retrieval info: http://waterdata.usgs.gov/nwis/?automated_retrieval_info
#
# Contact:   gs-w_support_nwisweb@usgs.gov
# retrieved: 2007-07-24 09:23:52 EDT
#
# Data for the following site(s) are contained in this file
#    USGS 01471510 Schuylkill River at Reading, PA
#
-------------------------------------------------------------------------------------
#
# Data provided for site 01471510
#    DD parameter   Description
#    02   00065     Gage height, feet
#    03   00045     Precipitation, total, inches
#
agency_cd       site_no datetime        02_00065        02_00065_cd     03_00045
03_00045_cd
5s      15s     16s     14s     14s     14s     14s
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USGS    01471510        2007-06-24 16:30        2.73            0.00
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USGS	01471510	2007-06-26 18:30	2.66	0.00
USGS	01471510	2007-06-26 19:00	2.66	0.00
USGS	01471510	2007-06-26 19:30	2.66	0.00
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USGS	01471510	2007-06-26 21:30	2.68	0.00
USGS	01471510	2007-06-26 22:00	2.68	0.00
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USGS	01471510	2007-06-27 01:30	2.68	0.00
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USGS	01471510	2007-06-27 03:30	2.67	0.00
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USGS	01471510	2007-06-27 04:30	2.67	0.00
USGS	01471510	2007-06-27 05:00	2.66	0.00
USGS	01471510	2007-06-27 05:30	2.66	0.00
USGS	01471510	2007-06-27 06:00	2.66	0.00
USGS	01471510	2007-06-27 06:30	2.66	0.00
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USGS	01471510	2007-06-27 09:30	2.65	0.00
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USGS	01471510	2007-06-27 10:30	2.65	0.00
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USGS	01471510	2007-06-27 11:30	2.65	0.00
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USGS	01471510	2007-06-27 12:30	2.65	0.00
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USGS	01471510	2007-06-27 14:30	2.65	0.00
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USGS	01471510	2007-06-27 15:30	2.65	0.00
USGS	01471510	2007-06-27 16:00	2.65	0.00
USGS	01471510	2007-06-27 16:30	2.66	0.00
USGS	01471510	2007-06-27 17:00	2.66	0.00
USGS	01471510	2007-06-27 17:30	2.66	0.00
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USGS	01471510	2007-06-27 19:00	2.67	0.00
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USGS	01471510	2007-06-27 22:30	2.86	0.02
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USGS	01471510	2007-06-27 23:30	2.91	0.01
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USGS	01471510	2007-06-28 01:30	2.77	0.00
USGS	01471510	2007-06-28 02:00	2.75	0.00
USGS	01471510	2007-06-28 02:30	2.74	0.00
USGS	01471510	2007-06-28 03:00	2.74	0.00
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USGS	01471510	2007-06-28 04:00	2.73	0.00
USGS	01471510	2007-06-28 04:30	2.72	0.00
USGS	01471510	2007-06-28 05:00	2.72	0.00
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USGS	01471510	2007-06-28 07:00	2.70	0.00
USGS	01471510	2007-06-28 07:30	2.70	0.00
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USGS	01471510	2007-06-28 08:30	2.70	0.00
USGS	01471510	2007-06-28 09:00	2.70	0.00
USGS	01471510	2007-06-28 09:30	2.71	0.00
USGS	01471510	2007-06-28 10:00	2.71	0.00
USGS	01471510	2007-06-28 10:30	2.71	0.00
USGS	01471510	2007-06-28 11:00	2.71	0.00
USGS	01471510	2007-06-28 11:30	2.71	0.00
USGS	01471510	2007-06-28 12:00	2.71	0.00
USGS	01471510	2007-06-28 12:30	2.71	0.00
USGS	01471510	2007-06-28 13:00	2.71	0.00
USGS	01471510	2007-06-28 13:30	2.71	0.00
USGS	01471510	2007-06-28 14:00	2.71	0.00
USGS	01471510	2007-06-28 14:30	2.71	0.00
USGS	01471510	2007-06-28 15:00	2.71	0.00

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USGS	01471510	2007-06-28 17:30	2.71	0.00
USGS	01471510	2007-06-28 18:00	2.71	0.00
USGS	01471510	2007-06-28 18:30	2.71	0.00
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USGS	01471510	2007-06-28 20:30	3.32	0.09
USGS	01471510	2007-06-28 21:00	3.15	0.03
USGS	01471510	2007-06-28 21:30	3.05	0.00
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USGS	01471510	2007-06-29 09:00	2.80	0.00
USGS	01471510	2007-06-29 09:30	2.80	0.00
USGS	01471510	2007-06-29 10:00	2.79	0.00
USGS	01471510	2007-06-29 10:30	2.79	0.00
USGS	01471510	2007-06-29 11:00	2.78	0.00
USGS	01471510	2007-06-29 11:30	2.78	0.00
USGS	01471510	2007-06-29 12:00	2.78	0.00
USGS	01471510	2007-06-29 12:30	2.78	0.00
USGS	01471510	2007-06-29 13:00	2.78	0.00
USGS	01471510	2007-06-29 13:30	2.78	0.00
USGS	01471510	2007-06-29 14:00	2.78	0.00
USGS	01471510	2007-06-29 14:30	2.78	0.00
USGS	01471510	2007-06-29 15:00	2.78	0.00
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USGS	01471510	2007-06-29 18:30	2.78	0.00
USGS	01471510	2007-06-29 19:00	2.79	0.00
USGS	01471510	2007-06-29 19:30	2.81	0.00
USGS	01471510	2007-06-29 20:00	2.82	0.00
USGS	01471510	2007-06-29 20:30	2.83	0.00
USGS	01471510	2007-06-29 21:00	2.83	0.00
USGS	01471510	2007-06-29 21:30	2.83	0.00
USGS	01471510	2007-06-29 22:00	2.83	0.00
USGS	01471510	2007-06-29 22:30	2.83	0.00

USGS	01471510	2007-06-29 23:00	2.83	0.00
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USGS	01471510	2007-06-30 03:30	2.79	0.00
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USGS	01471510	2007-06-30 10:00	2.75	0.00
USGS	01471510	2007-06-30 10:30	2.75	0.00
USGS	01471510	2007-06-30 11:00	2.74	0.00
USGS	01471510	2007-06-30 11:30	2.74	0.00
USGS	01471510	2007-06-30 12:00	2.74	0.00
USGS	01471510	2007-06-30 12:30	2.74	0.00
USGS	01471510	2007-06-30 13:00	2.73	0.00
USGS	01471510	2007-06-30 13:30	2.73	0.00
USGS	01471510	2007-06-30 14:00	2.73	0.00
USGS	01471510	2007-06-30 14:30	2.73	0.00
USGS	01471510	2007-06-30 15:00	2.73	0.00
USGS	01471510	2007-06-30 15:30	2.73	0.00
USGS	01471510	2007-06-30 16:00	2.72	0.00
USGS	01471510	2007-06-30 16:30	2.72	0.00
USGS	01471510	2007-06-30 17:00	2.72	0.00
USGS	01471510	2007-06-30 17:30	2.72	0.00
USGS	01471510	2007-06-30 18:00	2.71	0.00
USGS	01471510	2007-06-30 18:30	2.71	0.00
USGS	01471510	2007-06-30 19:00	2.71	0.00
USGS	01471510	2007-06-30 19:30	2.71	0.00
USGS	01471510	2007-06-30 20:00	2.70	0.00
USGS	01471510	2007-06-30 20:30	2.70	0.00
USGS	01471510	2007-06-30 21:00	2.70	0.00
USGS	01471510	2007-06-30 21:30	2.70	0.00
USGS	01471510	2007-06-30 22:00	2.70	0.00
USGS	01471510	2007-06-30 22:30	2.69	0.00
USGS	01471510	2007-06-30 23:00	2.69	0.00
USGS	01471510	2007-06-30 23:30	2.69	0.00
USGS	01471510	2007-07-01 00:00	2.69	0.00
USGS	01471510	2007-07-01 00:30	2.69	0.00
USGS	01471510	2007-07-01 01:00	2.68	0.00
USGS	01471510	2007-07-01 01:30	2.68	0.00
USGS	01471510	2007-07-01 02:00	2.68	0.00
USGS	01471510	2007-07-01 02:30	2.68	0.00
USGS	01471510	2007-07-01 03:00	2.68	0.00
USGS	01471510	2007-07-01 03:30	2.68	0.00
USGS	01471510	2007-07-01 04:00	2.68	0.00
USGS	01471510	2007-07-01 04:30	2.68	0.00
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USGS	01471510	2007-07-01 05:30	2.67	0.00
USGS	01471510	2007-07-01 06:00	2.67	0.00

USGS	01471510	2007-07-01 06:30	2.67	0.00
USGS	01471510	2007-07-01 07:00	2.67	0.00
USGS	01471510	2007-07-01 07:30	2.67	0.00
USGS	01471510	2007-07-01 08:00	2.67	0.00
USGS	01471510	2007-07-01 08:30	2.67	0.00
USGS	01471510	2007-07-01 09:00	2.66	0.00
USGS	01471510	2007-07-01 09:30	2.66	0.00
USGS	01471510	2007-07-01 10:00	2.66	0.00
USGS	01471510	2007-07-01 10:30	2.66	0.00
USGS	01471510	2007-07-01 11:00	2.66	0.00
USGS	01471510	2007-07-01 11:30	2.65	0.00
USGS	01471510	2007-07-01 12:00	2.66	0.00
USGS	01471510	2007-07-01 12:30	2.65	0.00
USGS	01471510	2007-07-01 13:00	2.65	0.00
USGS	01471510	2007-07-01 13:30	2.65	0.00
USGS	01471510	2007-07-01 14:00	2.65	0.00
USGS	01471510	2007-07-01 14:30	2.65	0.00
USGS	01471510	2007-07-01 15:00	2.65	0.00
USGS	01471510	2007-07-01 15:30	2.65	0.00
USGS	01471510	2007-07-01 16:00	2.65	0.00
USGS	01471510	2007-07-01 16:30	2.65	0.00
USGS	01471510	2007-07-01 17:00	2.65	0.00
USGS	01471510	2007-07-01 17:30	2.65	0.00
USGS	01471510	2007-07-01 18:00	2.65	0.00
USGS	01471510	2007-07-01 18:30	2.65	0.00
USGS	01471510	2007-07-01 19:00	2.65	0.00
USGS	01471510	2007-07-01 19:30	2.64	0.00
USGS	01471510	2007-07-01 20:00	2.64	0.00
USGS	01471510	2007-07-01 20:30	2.64	0.00
USGS	01471510	2007-07-01 21:00	2.64	0.00
USGS	01471510	2007-07-01 21:30	2.64	0.00
USGS	01471510	2007-07-01 22:00	2.64	0.00
USGS	01471510	2007-07-01 22:30	2.64	0.00
USGS	01471510	2007-07-01 23:00	2.64	0.00
USGS	01471510	2007-07-01 23:30	2.64	0.00
USGS	01471510	2007-07-02 00:00	2.64	0.00
USGS	01471510	2007-07-02 00:30	2.73	0.00
USGS	01471510	2007-07-02 01:00	2.73	0.00
USGS	01471510	2007-07-02 01:30	2.73	0.00
USGS	01471510	2007-07-02 02:00	2.73	0.00
USGS	01471510	2007-07-02 02:30	2.73	0.00
USGS	01471510	2007-07-02 03:00	2.74	0.00
USGS	01471510	2007-07-02 03:30	2.73	0.00
USGS	01471510	2007-07-02 04:00	2.73	0.00
USGS	01471510	2007-07-02 04:30	2.73	0.00
USGS	01471510	2007-07-02 05:00	2.73	0.00
USGS	01471510	2007-07-02 05:30	2.73	0.00
USGS	01471510	2007-07-02 06:00	2.73	0.00
USGS	01471510	2007-07-02 06:30	2.73	0.00
USGS	01471510	2007-07-02 07:00	2.73	0.00
USGS	01471510	2007-07-02 07:30	2.73	0.00
USGS	01471510	2007-07-02 08:00	2.73	0.00
USGS	01471510	2007-07-02 08:30	2.72	0.00
USGS	01471510	2007-07-02 09:00	2.72	0.00
USGS	01471510	2007-07-02 09:30	2.72	0.00
USGS	01471510	2007-07-02 10:00	2.72	0.00
USGS	01471510	2007-07-02 10:30	2.72	0.00
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USGS	01471510	2007-07-02 11:30	2.71	0.00
USGS	01471510	2007-07-02 12:00	2.71	0.00
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USGS	01471510	2007-07-02 14:30	2.70	0.00
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USGS	01471510	2007-07-02 17:30	2.69	0.00
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USGS	01471510	2007-07-02 18:30	2.69	0.00
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USGS	01471510	2007-07-02 20:30	2.69	0.00
USGS	01471510	2007-07-02 21:00	2.69	0.00
USGS	01471510	2007-07-02 21:30	2.68	0.00
USGS	01471510	2007-07-02 22:00	2.69	0.00
USGS	01471510	2007-07-02 22:30	2.68	0.00
USGS	01471510	2007-07-02 23:00	2.68	0.00
USGS	01471510	2007-07-02 23:30	2.68	0.00
USGS	01471510	2007-07-03 00:00	2.68	0.00
USGS	01471510	2007-07-03 00:30	2.68	0.00
USGS	01471510	2007-07-03 01:00	2.68	0.00
USGS	01471510	2007-07-03 01:30	2.68	0.00
USGS	01471510	2007-07-03 02:00	2.68	0.00
USGS	01471510	2007-07-03 02:30	2.68	0.00
USGS	01471510	2007-07-03 03:00	2.68	0.00
USGS	01471510	2007-07-03 03:30	2.68	0.00
USGS	01471510	2007-07-03 04:00	2.68	0.00
USGS	01471510	2007-07-03 04:30	2.68	0.00
USGS	01471510	2007-07-03 05:00	2.68	0.00
USGS	01471510	2007-07-03 05:30	2.67	0.00
USGS	01471510	2007-07-03 06:00	2.67	0.00
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USGS	01471510	2007-07-03 09:00	2.67	0.00
USGS	01471510	2007-07-03 09:30	2.67	0.00
USGS	01471510	2007-07-03 10:00	2.67	0.00
USGS	01471510	2007-07-03 10:30	2.67	0.00
USGS	01471510	2007-07-03 11:00	2.67	0.00
USGS	01471510	2007-07-03 11:30	2.67	0.00
USGS	01471510	2007-07-03 12:00	2.67	0.00
USGS	01471510	2007-07-03 12:30	2.67	0.00
USGS	01471510	2007-07-03 13:00	2.67	0.00
USGS	01471510	2007-07-03 13:30	2.67	0.00
USGS	01471510	2007-07-03 14:00	2.66	0.00
USGS	01471510	2007-07-03 14:30	2.65	0.00
USGS	01471510	2007-07-03 15:00	2.65	0.00
USGS	01471510	2007-07-03 15:30	2.64	0.00
USGS	01471510	2007-07-03 16:00	2.63	0.00
USGS	01471510	2007-07-03 16:30	2.63	0.00
USGS	01471510	2007-07-03 17:00	2.62	0.00
USGS	01471510	2007-07-03 17:30	2.62	0.00
USGS	01471510	2007-07-03 18:00	2.62	0.00
USGS	01471510	2007-07-03 18:30	2.62	0.00
USGS	01471510	2007-07-03 19:00	2.62	0.00
USGS	01471510	2007-07-03 19:30	2.62	0.00
USGS	01471510	2007-07-03 20:00	2.62	0.00
USGS	01471510	2007-07-03 20:30	2.62	0.00
USGS	01471510	2007-07-03 21:00	2.62	0.00

USGS	01471510	2007-07-03 21:30	2.62	0.00
USGS	01471510	2007-07-03 22:00	2.62	0.00
USGS	01471510	2007-07-03 22:30	2.62	0.00
USGS	01471510	2007-07-03 23:00	2.62	0.00
USGS	01471510	2007-07-03 23:30	2.62	0.00
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USGS	01471510	2007-07-04 00:30	2.62	0.00
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USGS	01471510	2007-07-04 01:30	2.62	0.00
USGS	01471510	2007-07-04 02:00	2.62	0.00
USGS	01471510	2007-07-04 02:30	2.62	0.00
USGS	01471510	2007-07-04 03:00	2.62	0.00
USGS	01471510	2007-07-04 03:30	2.62	0.00
USGS	01471510	2007-07-04 04:00	2.62	0.00
USGS	01471510	2007-07-04 04:30	2.62	0.01
USGS	01471510	2007-07-04 05:00	2.62	0.00
USGS	01471510	2007-07-04 05:30	2.62	0.01
USGS	01471510	2007-07-04 06:00	2.62	0.00
USGS	01471510	2007-07-04 06:30	2.62	0.00
USGS	01471510	2007-07-04 07:00	2.62	0.00
USGS	01471510	2007-07-04 07:30	2.62	0.00
USGS	01471510	2007-07-04 08:00	2.63	0.00
USGS	01471510	2007-07-04 08:30	2.63	0.00
USGS	01471510	2007-07-04 09:00	2.63	0.00
USGS	01471510	2007-07-04 09:30	2.63	0.00
USGS	01471510	2007-07-04 10:00	2.62	0.00
USGS	01471510	2007-07-04 10:30	2.62	0.00
USGS	01471510	2007-07-04 11:00	2.62	0.00
USGS	01471510	2007-07-04 11:30	2.62	0.00
USGS	01471510	2007-07-04 12:00	2.63	0.00
USGS	01471510	2007-07-04 12:30	2.63	0.00
USGS	01471510	2007-07-04 13:00	2.63	0.00
USGS	01471510	2007-07-04 13:30	2.63	0.00
USGS	01471510	2007-07-04 14:00	2.63	0.00
USGS	01471510	2007-07-04 14:30	2.63	0.00
USGS	01471510	2007-07-04 15:00	2.62	0.00
USGS	01471510	2007-07-04 15:30	2.62	0.00
USGS	01471510	2007-07-04 16:00	2.62	0.00
USGS	01471510	2007-07-04 16:30	2.62	0.00
USGS	01471510	2007-07-04 17:00	2.62	0.00
USGS	01471510	2007-07-04 17:30	2.62	0.00
USGS	01471510	2007-07-04 18:00	2.62	0.00
USGS	01471510	2007-07-04 18:30	2.62	0.00
USGS	01471510	2007-07-04 19:00	2.63	0.01
USGS	01471510	2007-07-04 19:30	2.63	0.01
USGS	01471510	2007-07-04 20:00	2.63	0.06
USGS	01471510	2007-07-04 20:30	2.69	0.10
USGS	01471510	2007-07-04 21:00	2.70	0.01
USGS	01471510	2007-07-04 21:30	2.69	0.01
USGS	01471510	2007-07-04 22:00	2.70	0.00
USGS	01471510	2007-07-04 22:30	2.69	0.00
USGS	01471510	2007-07-04 23:00	2.68	0.00
USGS	01471510	2007-07-04 23:30	2.67	0.00
USGS	01471510	2007-07-05 00:00	2.66	0.00
USGS	01471510	2007-07-05 00:30	2.66	0.00
USGS	01471510	2007-07-05 01:00	2.66	0.02
USGS	01471510	2007-07-05 01:30	2.67	0.00
USGS	01471510	2007-07-05 02:00	2.68	0.00
USGS	01471510	2007-07-05 02:30	2.69	0.00
USGS	01471510	2007-07-05 03:00	2.70	0.00
USGS	01471510	2007-07-05 03:30	2.71	0.00
USGS	01471510	2007-07-05 04:00	2.72	0.00
USGS	01471510	2007-07-05 04:30	2.73	0.00

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USGS	01471510	2007-07-05 05:30	2.74	0.00
USGS	01471510	2007-07-05 06:00	2.75	0.00
USGS	01471510	2007-07-05 06:30	2.76	0.00
USGS	01471510	2007-07-05 07:00	2.77	0.00
USGS	01471510	2007-07-05 07:30	2.78	0.00
USGS	01471510	2007-07-05 08:00	2.81	0.00
USGS	01471510	2007-07-05 08:30	2.85	0.00
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USGS	01471510	2007-07-05 09:30	2.99	0.00
USGS	01471510	2007-07-05 10:00	3.05	0.00
USGS	01471510	2007-07-05 10:30	3.10	0.00
USGS	01471510	2007-07-05 11:00	3.13	0.00
USGS	01471510	2007-07-05 11:30	3.16	0.00
USGS	01471510	2007-07-05 12:00	3.17	0.00
USGS	01471510	2007-07-05 12:30	3.17	0.00
USGS	01471510	2007-07-05 13:00	3.17	0.00
USGS	01471510	2007-07-05 13:30	3.19	0.00
USGS	01471510	2007-07-05 14:00	3.21	0.00
USGS	01471510	2007-07-05 14:30	3.22	0.00
USGS	01471510	2007-07-05 15:00	3.22	0.09
USGS	01471510	2007-07-05 15:30	3.31	0.16
USGS	01471510	2007-07-05 16:00	3.27	0.01
USGS	01471510	2007-07-05 16:30	3.26	0.02
USGS	01471510	2007-07-05 17:00	3.26	0.03
USGS	01471510	2007-07-05 17:30	3.38	0.35
USGS	01471510	2007-07-05 18:00	3.44	
USGS	01471510	2007-07-05 18:30	3.38	0.04
USGS	01471510	2007-07-05 19:00	3.36	0.00
USGS	01471510	2007-07-05 19:30	3.31	0.00
USGS	01471510	2007-07-05 20:00	3.29	0.00
USGS	01471510	2007-07-05 20:30	3.31	0.00
USGS	01471510	2007-07-05 21:00	3.36	0.01
USGS	01471510	2007-07-05 21:30	3.89	0.92
USGS	01471510	2007-07-05 22:00	4.70	
USGS	01471510	2007-07-05 22:30	5.02	0.06
USGS	01471510	2007-07-05 23:00	4.77	0.01
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USGS	01471510	2007-07-06 01:00	3.88	0.00
USGS	01471510	2007-07-06 01:30	3.86	0.00
USGS	01471510	2007-07-06 02:00	3.85	0.00
USGS	01471510	2007-07-06 02:30	3.83	0.00
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USGS	01471510	2007-07-06 03:30	3.74	0.00
USGS	01471510	2007-07-06 04:00	3.70	0.00
USGS	01471510	2007-07-06 04:30	3.66	0.00
USGS	01471510	2007-07-06 05:00	3.62	0.00
USGS	01471510	2007-07-06 05:30	3.57	0.00
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USGS	01471510	2007-07-06 08:00	3.36	0.00
USGS	01471510	2007-07-06 08:30	3.34	0.00
USGS	01471510	2007-07-06 09:00	3.32	0.00
USGS	01471510	2007-07-06 09:30	3.32	0.00
USGS	01471510	2007-07-06 10:00	3.31	0.00
USGS	01471510	2007-07-06 10:30	3.30	0.00
USGS	01471510	2007-07-06 11:00	3.28	0.00
USGS	01471510	2007-07-06 11:30	3.28	0.00
USGS	01471510	2007-07-06 12:00	3.29	0.00

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USGS	01471510	2007-07-06 13:00	3.31	0.00
USGS	01471510	2007-07-06 13:30	3.31	0.00
USGS	01471510	2007-07-06 14:00	3.30	0.00
USGS	01471510	2007-07-06 14:30	3.29	0.00
USGS	01471510	2007-07-06 15:00	3.29	0.00
USGS	01471510	2007-07-06 15:30	3.28	0.00
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USGS	01471510	2007-07-06 16:30	3.26	0.00
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USGS	01471510	2007-07-06 18:30	3.17	0.00
USGS	01471510	2007-07-06 19:00	3.15	0.00
USGS	01471510	2007-07-06 19:30	3.14	0.00
USGS	01471510	2007-07-06 20:00	3.13	0.00
USGS	01471510	2007-07-06 20:30	3.12	0.00
USGS	01471510	2007-07-06 21:00	3.12	0.00
USGS	01471510	2007-07-06 21:30	3.11	0.00
USGS	01471510	2007-07-06 22:00	3.11	0.00
USGS	01471510	2007-07-06 22:30	3.10	0.00
USGS	01471510	2007-07-06 23:00	3.09	0.00
USGS	01471510	2007-07-06 23:30	3.08	0.00
USGS	01471510	2007-07-07 00:00	3.08	0.00
USGS	01471510	2007-07-07 00:30	3.07	0.00
USGS	01471510	2007-07-07 01:00	3.07	0.00
USGS	01471510	2007-07-07 01:30	3.06	0.00
USGS	01471510	2007-07-07 02:00	3.06	0.00
USGS	01471510	2007-07-07 02:30	3.05	0.00
USGS	01471510	2007-07-07 03:00	3.05	0.00
USGS	01471510	2007-07-07 03:30	3.05	0.00
USGS	01471510	2007-07-07 04:00	3.05	0.00
USGS	01471510	2007-07-07 04:30	3.04	0.00
USGS	01471510	2007-07-07 05:00	3.03	0.00
USGS	01471510	2007-07-07 05:30	3.03	0.00
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USGS	01471510	2007-07-07 07:30	3.01	0.00
USGS	01471510	2007-07-07 08:00	3.01	0.00
USGS	01471510	2007-07-07 08:30	3.00	0.00
USGS	01471510	2007-07-07 09:00	3.00	0.00
USGS	01471510	2007-07-07 09:30	2.99	0.00
USGS	01471510	2007-07-07 10:00	2.99	0.00
USGS	01471510	2007-07-07 10:30	2.99	0.00
USGS	01471510	2007-07-07 11:00	2.99	0.00
USGS	01471510	2007-07-07 11:30	2.98	0.00
USGS	01471510	2007-07-07 12:00	2.98	0.00
USGS	01471510	2007-07-07 12:30	2.98	0.00
USGS	01471510	2007-07-07 13:00	2.98	0.00
USGS	01471510	2007-07-07 13:30	2.98	0.00
USGS	01471510	2007-07-07 14:00	2.98	0.00
USGS	01471510	2007-07-07 14:30	2.97	0.00
USGS	01471510	2007-07-07 15:00	2.97	0.00
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USGS	01471510	2007-07-07 16:00	2.96	0.00
USGS	01471510	2007-07-07 16:30	2.96	0.00
USGS	01471510	2007-07-07 17:00	2.96	0.00
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USGS	01471510	2007-07-07 18:00	2.95	0.00
USGS	01471510	2007-07-07 18:30	2.95	0.00
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USGS	01471510	2007-07-07 19:30	2.94	0.00

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USGS	01471510	2007-07-07 20:30	2.93	0.00
USGS	01471510	2007-07-07 21:00	2.93	0.00
USGS	01471510	2007-07-07 21:30	2.93	0.00
USGS	01471510	2007-07-07 22:00	2.92	0.00
USGS	01471510	2007-07-07 22:30	2.92	0.00
USGS	01471510	2007-07-07 23:00	2.92	0.00
USGS	01471510	2007-07-07 23:30	2.91	0.00
USGS	01471510	2007-07-08 00:00	2.91	0.00
USGS	01471510	2007-07-08 00:30	2.91	0.00
USGS	01471510	2007-07-08 01:00	2.91	0.00
USGS	01471510	2007-07-08 01:30	2.90	0.00
USGS	01471510	2007-07-08 02:00	2.90	0.00
USGS	01471510	2007-07-08 02:30	2.90	0.00
USGS	01471510	2007-07-08 03:00	2.90	0.00
USGS	01471510	2007-07-08 03:30	2.89	0.00
USGS	01471510	2007-07-08 04:00	2.89	0.00
USGS	01471510	2007-07-08 04:30	2.89	0.00
USGS	01471510	2007-07-08 05:00	2.89	0.00
USGS	01471510	2007-07-08 05:30	2.89	0.00
USGS	01471510	2007-07-08 06:00	2.89	0.00
USGS	01471510	2007-07-08 06:30	2.88	0.00
USGS	01471510	2007-07-08 07:00	2.88	0.00
USGS	01471510	2007-07-08 07:30	2.88	0.00
USGS	01471510	2007-07-08 08:00	2.88	0.00
USGS	01471510	2007-07-08 08:30	2.88	0.00
USGS	01471510	2007-07-08 09:00	2.87	0.00
USGS	01471510	2007-07-08 09:30	2.87	0.00
USGS	01471510	2007-07-08 10:00	2.87	0.00
USGS	01471510	2007-07-08 10:30	2.87	0.00
USGS	01471510	2007-07-08 11:00	2.87	0.00
USGS	01471510	2007-07-08 11:30	2.87	0.00
USGS	01471510	2007-07-08 12:00	2.87	0.00
USGS	01471510	2007-07-08 12:30	2.86	0.00
USGS	01471510	2007-07-08 13:00	2.86	0.00
USGS	01471510	2007-07-08 13:30	2.86	0.00
USGS	01471510	2007-07-08 14:00	2.86	0.00
USGS	01471510	2007-07-08 14:30	2.86	0.00
USGS	01471510	2007-07-08 15:00	2.86	0.00
USGS	01471510	2007-07-08 15:30	2.86	0.00
USGS	01471510	2007-07-08 16:00	2.86	0.00
USGS	01471510	2007-07-08 16:30	2.86	0.00
USGS	01471510	2007-07-08 17:00	2.86	0.00
USGS	01471510	2007-07-08 17:30	2.85	0.00
USGS	01471510	2007-07-08 18:00	2.85	0.00
USGS	01471510	2007-07-08 18:30	2.85	0.00
USGS	01471510	2007-07-08 19:00	2.85	0.00
USGS	01471510	2007-07-08 19:30	2.85	0.00
USGS	01471510	2007-07-08 20:00	2.85	0.00
USGS	01471510	2007-07-08 20:30	2.84	0.00
USGS	01471510	2007-07-08 21:00	2.84	0.00
USGS	01471510	2007-07-08 21:30	2.84	0.00
USGS	01471510	2007-07-08 22:00	2.84	0.00
USGS	01471510	2007-07-08 22:30	2.84	0.00
USGS	01471510	2007-07-08 23:00	2.84	0.00
USGS	01471510	2007-07-08 23:30	2.84	0.00
USGS	01471510	2007-07-09 00:00	2.84	0.00
USGS	01471510	2007-07-09 00:30	2.83	0.00
USGS	01471510	2007-07-09 01:00	2.83	0.00
USGS	01471510	2007-07-09 01:30	2.83	0.00
USGS	01471510	2007-07-09 02:00	2.83	0.00
USGS	01471510	2007-07-09 02:30	2.83	0.00
USGS	01471510	2007-07-09 03:00	2.83	0.00

USGS	01471510	2007-07-09 03:30	2.83	0.00
USGS	01471510	2007-07-09 04:00	2.83	0.00
USGS	01471510	2007-07-09 04:30	2.83	0.00
USGS	01471510	2007-07-09 05:00	2.83	0.00
USGS	01471510	2007-07-09 05:30	2.83	0.00
USGS	01471510	2007-07-09 06:00	2.83	0.00
USGS	01471510	2007-07-09 06:30	2.83	0.00
USGS	01471510	2007-07-09 07:00	2.83	0.00
USGS	01471510	2007-07-09 07:30	2.82	0.00
USGS	01471510	2007-07-09 08:00	2.82	0.00
USGS	01471510	2007-07-09 08:30	2.82	0.00
USGS	01471510	2007-07-09 09:00	2.82	0.00
USGS	01471510	2007-07-09 09:30	2.82	0.00
USGS	01471510	2007-07-09 10:00	2.82	0.00
USGS	01471510	2007-07-09 10:30	2.82	0.00
USGS	01471510	2007-07-09 11:00	2.82	0.00
USGS	01471510	2007-07-09 11:30	2.82	0.00
USGS	01471510	2007-07-09 12:00	2.82	0.00
USGS	01471510	2007-07-09 12:30	2.82	0.00
USGS	01471510	2007-07-09 13:00	2.81	0.00
USGS	01471510	2007-07-09 13:30	2.79	0.00
USGS	01471510	2007-07-09 14:00	2.77	0.00
USGS	01471510	2007-07-09 14:30	2.75	0.00
USGS	01471510	2007-07-09 15:00	2.75	0.00
USGS	01471510	2007-07-09 15:30	2.72	0.00
USGS	01471510	2007-07-09 16:00	2.71	0.00
USGS	01471510	2007-07-09 16:30	2.71	0.00
USGS	01471510	2007-07-09 17:00	2.71	0.00
USGS	01471510	2007-07-09 17:30	2.70	0.00
USGS	01471510	2007-07-09 18:00	2.70	0.00
USGS	01471510	2007-07-09 18:30	2.70	0.00
USGS	01471510	2007-07-09 19:00	2.70	0.00
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USGS	01471510	2007-07-10 03:30	2.69	0.00
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USGS	01471510	2007-07-10 05:30	2.69	0.00
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USGS	01471510	2007-07-10 06:30	2.69	0.00
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USGS	01471510	2007-07-11 04:30	2.68	0.00
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USGS	01471510	2007-07-11 05:30	2.68	0.00
USGS	01471510	2007-07-11 06:00	2.68	0.00
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USGS	01471510	2007-07-11 07:00	2.67	0.00
USGS	01471510	2007-07-11 07:30	2.67	0.00
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USGS	01471510	2007-07-11 08:30	2.67	0.00
USGS	01471510	2007-07-11 09:00	2.67	0.00
USGS	01471510	2007-07-11 09:30	2.67	0.00
USGS	01471510	2007-07-11 10:00	2.67	0.00
USGS	01471510	2007-07-11 10:30	2.67	0.00
USGS	01471510	2007-07-11 11:00	2.67	0.00
USGS	01471510	2007-07-11 11:30	2.67	0.00
USGS	01471510	2007-07-11 12:00	2.67	0.00
USGS	01471510	2007-07-11 12:30	2.67	0.00
USGS	01471510	2007-07-11 13:00	2.67	0.00
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USGS	01471510	2007-07-11 14:00	2.66	0.00
USGS	01471510	2007-07-11 14:30	2.66	0.00
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USGS	01471510	2007-07-11 15:30	2.65	0.05
USGS	01471510	2007-07-11 16:00	2.66	0.00
USGS	01471510	2007-07-11 16:30	2.67	0.00
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USGS	01471510	2007-07-12 12:00	2.77	0.00
USGS	01471510	2007-07-12 12:30	2.77	0.00
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USGS	01471510	2007-07-12 13:30	2.77	0.00
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USGS	01471510	2007-07-12 14:30	2.78	0.00
USGS	01471510	2007-07-12 15:00	2.78	0.00
USGS	01471510	2007-07-12 15:30	2.78	0.00
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USGS	01471510	2007-07-13 03:30	2.73	0.00
USGS	01471510	2007-07-13 04:00	2.73	0.00
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USGS	01471510	2007-07-13 09:30	2.71	0.00
USGS	01471510	2007-07-13 10:00	2.71	0.00
USGS	01471510	2007-07-13 10:30	2.71	0.00
USGS	01471510	2007-07-13 11:00	2.71	0.00
USGS	01471510	2007-07-13 11:30	2.71	0.00
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USGS	01471510	2007-07-13 14:30	2.69	0.00
USGS	01471510	2007-07-13 15:00	2.69	0.00
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USGS	01471510	2007-07-13 18:00	2.68	0.00
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USGS	01471510	2007-07-13 21:30	2.67	0.00
USGS	01471510	2007-07-13 22:00	2.67	0.00
USGS	01471510	2007-07-13 22:30	2.67	0.00
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USGS	01471510	2007-07-14 00:30	2.66	0.00
USGS	01471510	2007-07-14 01:00	2.66	0.00
USGS	01471510	2007-07-14 01:30	2.66	0.00
USGS	01471510	2007-07-14 02:00	2.66	0.00
USGS	01471510	2007-07-14 02:30	2.66	0.00
USGS	01471510	2007-07-14 03:00	2.66	0.00
USGS	01471510	2007-07-14 03:30	2.66	0.00
USGS	01471510	2007-07-14 04:00	2.66	0.00
USGS	01471510	2007-07-14 04:30	2.66	0.00
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USGS	01471510	2007-07-14 05:30	2.66	0.00
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USGS	01471510	2007-07-14 09:00	2.65	0.00

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USGS	01471510	2007-07-14 11:00	2.65	0.00
USGS	01471510	2007-07-14 11:30	2.65	0.00
USGS	01471510	2007-07-14 12:00	2.65	0.00
USGS	01471510	2007-07-14 12:30	2.65	0.00
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USGS	01471510	2007-07-14 13:30	2.65	0.00
USGS	01471510	2007-07-14 14:00	2.65	0.00
USGS	01471510	2007-07-14 14:30	2.65	0.00
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USGS	01471510	2007-07-14 15:30	2.65	0.00
USGS	01471510	2007-07-14 16:00	2.65	0.00
USGS	01471510	2007-07-14 16:30	2.65	0.00
USGS	01471510	2007-07-14 17:00	2.65	0.00
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USGS	01471510	2007-07-14 19:00	2.64	0.00
USGS	01471510	2007-07-14 19:30	2.64	0.00
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USGS	01471510	2007-07-14 20:30	2.64	0.00
USGS	01471510	2007-07-14 21:00	2.64	0.00
USGS	01471510	2007-07-14 21:30	2.64	0.00
USGS	01471510	2007-07-14 22:00	2.64	0.00
USGS	01471510	2007-07-14 22:30	2.64	0.00
USGS	01471510	2007-07-14 23:00	2.64	0.00
USGS	01471510	2007-07-14 23:30	2.64	0.00
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USGS	01471510	2007-07-15 00:30	2.64	0.00
USGS	01471510	2007-07-15 01:00	2.64	0.00
USGS	01471510	2007-07-15 01:30	2.64	0.00
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USGS	01471510	2007-07-15 02:30	2.64	0.00
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USGS	01471510	2007-07-15 03:30	2.64	0.00
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USGS	01471510	2007-07-15 05:30	2.64	0.00
USGS	01471510	2007-07-15 06:00	2.64	0.00
USGS	01471510	2007-07-15 06:30	2.64	0.00
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USGS	01471510	2007-07-15 07:30	2.64	0.00
USGS	01471510	2007-07-15 08:00	2.64	0.00
USGS	01471510	2007-07-15 08:30	2.64	0.00
USGS	01471510	2007-07-15 09:00	2.64	0.00
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USGS	01471510	2007-07-15 11:30	2.64	0.00
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USGS	01471510	2007-07-15 22:00	2.65	0.00
USGS	01471510	2007-07-15 22:30	2.65	0.00
USGS	01471510	2007-07-15 23:00	2.65	0.00
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USGS	01471510	2007-07-16 01:30	2.65	0.00
USGS	01471510	2007-07-16 02:00	2.65	0.00
USGS	01471510	2007-07-16 02:30	2.65	0.00
USGS	01471510	2007-07-16 03:00	2.65	0.00
USGS	01471510	2007-07-16 03:30	2.65	0.00
USGS	01471510	2007-07-16 04:00	2.65	0.00
USGS	01471510	2007-07-16 04:30	2.65	0.00
USGS	01471510	2007-07-16 05:00	2.66	0.00
USGS	01471510	2007-07-16 05:30	2.66	0.00
USGS	01471510	2007-07-16 06:00	2.66	0.00
USGS	01471510	2007-07-16 06:30	2.66	0.00
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USGS	01471510	2007-07-16 07:30	2.66	0.00
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USGS	01471510	2007-07-16 11:30	2.67	0.00
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USGS	01471510	2007-07-16 12:30	2.67	0.00
USGS	01471510	2007-07-16 13:00	2.67	0.00
USGS	01471510	2007-07-16 13:30	2.67	0.00
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USGS	01471510	2007-07-16 14:30	2.67	0.00
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USGS	01471510	2007-07-16 15:30	2.67	0.00
USGS	01471510	2007-07-16 16:00	2.67	0.00
USGS	01471510	2007-07-16 16:30	2.67	0.00
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USGS	01471510	2007-07-16 19:30	2.68	0.00
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USGS	01471510	2007-07-16 20:30	2.68	0.00
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USGS	01471510	2007-07-17 02:30	2.70	0.00
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USGS	01471510	2007-07-17 03:30	2.69	0.00
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USGS	01471510	2007-07-17 05:30	2.68	0.00
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USGS	01471510	2007-07-17 06:30	2.67	0.00
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USGS	01471510	2007-07-17 08:30	2.67	0.00
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USGS	01471510	2007-07-17 09:30	2.67	0.00
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USGS	01471510	2007-07-17 15:30	2.66	0.00
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USGS	01471510	2007-07-18 01:00	2.65	0.00
USGS	01471510	2007-07-18 01:30	2.65	0.00
USGS	01471510	2007-07-18 02:00	2.65	0.00
USGS	01471510	2007-07-18 02:30	2.65	0.00
USGS	01471510	2007-07-18 03:00	2.65	0.00
USGS	01471510	2007-07-18 03:30	2.65	0.00
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USGS	01471510	2007-07-18 04:30	2.65	0.00
USGS	01471510	2007-07-18 05:00	2.65	0.00
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USGS	01471510	2007-07-18 12:00	2.64	0.00
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USGS	01471510	2007-07-18 18:30	2.64	0.00
USGS	01471510	2007-07-18 19:00	2.64	0.00
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USGS	01471510	2007-07-18 22:00	2.69	0.00
USGS	01471510	2007-07-18 22:30	2.69	0.00
USGS	01471510	2007-07-18 23:00	2.68	0.00
USGS	01471510	2007-07-18 23:30	2.68	0.00
USGS	01471510	2007-07-19 00:00	2.68	0.00
USGS	01471510	2007-07-19 00:30	2.68	0.00
USGS	01471510	2007-07-19 01:00	2.68	0.00
USGS	01471510	2007-07-19 01:30	2.68	0.00
USGS	01471510	2007-07-19 02:00	2.68	0.00
USGS	01471510	2007-07-19 02:30	2.68	0.00
USGS	01471510	2007-07-19 03:00	2.68	0.00
USGS	01471510	2007-07-19 03:30	2.68	0.00
USGS	01471510	2007-07-19 04:00	2.68	0.00
USGS	01471510	2007-07-19 04:30	2.68	0.00
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USGS	01471510	2007-07-19 06:30	2.67	0.00
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USGS	01471510	2007-07-19 08:30	2.67	0.00
USGS	01471510	2007-07-19 09:00	2.67	0.00
USGS	01471510	2007-07-19 09:30	2.67	0.00
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USGS	01471510	2007-07-19 10:30	2.67	0.00
USGS	01471510	2007-07-19 11:00	2.67	0.00
USGS	01471510	2007-07-19 11:30	2.67	0.00
USGS	01471510	2007-07-19 12:00	2.67	0.00
USGS	01471510	2007-07-19 12:30	2.67	0.00
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USGS	01471510	2007-07-19 15:00	2.68	0.00

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USGS	01471510	2007-07-19 21:30	2.72	0.00
USGS	01471510	2007-07-19 22:00	2.72	0.00
USGS	01471510	2007-07-19 22:30	2.72	0.00
USGS	01471510	2007-07-19 23:00	2.72	0.00
USGS	01471510	2007-07-19 23:30	2.72	0.00
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USGS	01471510	2007-07-20 11:30	2.66	0.00
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USGS	01471510	2007-07-20 13:30	2.66	0.00
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USGS	01471510	2007-07-20 14:30	2.66	0.00
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USGS	01471510	2007-07-20 16:30	2.64	0.00
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USGS	01471510	2007-07-20 17:30	2.64	0.00
USGS	01471510	2007-07-20 18:00	2.64	0.00
USGS	01471510	2007-07-20 18:30	2.64	0.00
USGS	01471510	2007-07-20 19:00	2.63	0.00
USGS	01471510	2007-07-20 19:30	2.64	0.00
USGS	01471510	2007-07-20 20:00	2.64	0.00
USGS	01471510	2007-07-20 20:30	2.64	0.00
USGS	01471510	2007-07-20 21:00	2.64	0.00
USGS	01471510	2007-07-20 21:30	2.64	0.00
USGS	01471510	2007-07-20 22:00	2.64	0.00
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USGS	01471510	2007-07-21 00:00	2.66	0.00
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USGS	01471510	2007-07-21 01:00	2.67	0.00
USGS	01471510	2007-07-21 01:30	2.67	0.00
USGS	01471510	2007-07-21 02:00	2.67	0.00
USGS	01471510	2007-07-21 02:30	2.67	0.00
USGS	01471510	2007-07-21 03:00	2.67	0.00
USGS	01471510	2007-07-21 03:30	2.67	0.00
USGS	01471510	2007-07-21 04:00	2.67	0.00
USGS	01471510	2007-07-21 04:30	2.67	0.00
USGS	01471510	2007-07-21 05:00	2.67	0.00
USGS	01471510	2007-07-21 05:30	2.66	0.00
USGS	01471510	2007-07-21 06:00	2.66	0.00
USGS	01471510	2007-07-21 06:30	2.66	0.00
USGS	01471510	2007-07-21 07:00	2.66	0.00
USGS	01471510	2007-07-21 07:30	2.66	0.00
USGS	01471510	2007-07-21 08:00	2.65	0.00
USGS	01471510	2007-07-21 08:30	2.65	0.00
USGS	01471510	2007-07-21 09:00	2.65	0.00
USGS	01471510	2007-07-21 09:30	2.64	0.00
USGS	01471510	2007-07-21 10:00	2.64	0.00
USGS	01471510	2007-07-21 10:30	2.64	0.00
USGS	01471510	2007-07-21 11:00	2.64	0.00
USGS	01471510	2007-07-21 11:30	2.63	0.00
USGS	01471510	2007-07-21 12:00	2.63	0.00
USGS	01471510	2007-07-21 12:30	2.63	0.00
USGS	01471510	2007-07-21 13:00	2.63	0.00
USGS	01471510	2007-07-21 13:30	2.63	0.00
USGS	01471510	2007-07-21 14:00	2.63	0.00
USGS	01471510	2007-07-21 14:30	2.63	0.00
USGS	01471510	2007-07-21 15:00	2.63	0.00
USGS	01471510	2007-07-21 15:30	2.62	0.00
USGS	01471510	2007-07-21 16:00	2.62	0.00
USGS	01471510	2007-07-21 16:30	2.62	0.00
USGS	01471510	2007-07-21 17:00	2.62	0.00
USGS	01471510	2007-07-21 17:30	2.62	0.00
USGS	01471510	2007-07-21 18:00	2.62	0.00
USGS	01471510	2007-07-21 18:30	2.62	0.00
USGS	01471510	2007-07-21 19:00	2.62	0.00
USGS	01471510	2007-07-21 19:30	2.62	0.00
USGS	01471510	2007-07-21 20:00	2.61	0.00
USGS	01471510	2007-07-21 20:30	2.61	0.00
USGS	01471510	2007-07-21 21:00	2.61	0.00
USGS	01471510	2007-07-21 21:30	2.61	0.00
USGS	01471510	2007-07-21 22:00	2.61	0.00
USGS	01471510	2007-07-21 22:30	2.61	0.00
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USGS	01471510	2007-07-22 01:30	2.59	0.00
USGS	01471510	2007-07-22 02:00	2.59	0.00
USGS	01471510	2007-07-22 02:30	2.59	0.00
USGS	01471510	2007-07-22 03:00	2.59	0.00
USGS	01471510	2007-07-22 03:30	2.58	0.00
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USGS	01471510	2007-07-22 08:00	2.57	0.00
USGS	01471510	2007-07-22 08:30	2.57	0.00
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USGS	01471510	2007-07-22 09:30	2.57	0.00
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USGS	01471510	2007-07-22 13:00	2.56	0.00
USGS	01471510	2007-07-22 13:30	2.56	0.00
USGS	01471510	2007-07-22 14:00	2.56	0.00
USGS	01471510	2007-07-22 14:30	2.56	0.00
USGS	01471510	2007-07-22 15:00	2.56	0.00
USGS	01471510	2007-07-22 15:30	2.56	0.00
USGS	01471510	2007-07-22 16:00	2.56	0.00
USGS	01471510	2007-07-22 16:30	2.56	0.00
USGS	01471510	2007-07-22 17:00	2.56	0.00
USGS	01471510	2007-07-22 17:30	2.56	0.00
USGS	01471510	2007-07-22 18:00	2.56	0.00
USGS	01471510	2007-07-22 18:30	2.56	0.00
USGS	01471510	2007-07-22 19:00	2.56	0.00
USGS	01471510	2007-07-22 19:30	2.56	0.00
USGS	01471510	2007-07-22 20:00	2.56	0.00
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USGS	01471510	2007-07-22 21:00	2.57	0.00
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USGS	01471510	2007-07-22 22:30	2.57	0.00
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USGS	01471510	2007-07-23 00:00	2.48	0.00
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USGS	01471510	2007-07-23 02:00	2.48	0.00
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USGS	01471510	2007-07-23 03:00	2.48	0.00
USGS	01471510	2007-07-23 03:30	2.48	0.00
USGS	01471510	2007-07-23 04:00	2.48	0.00
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USGS	01471510	2007-07-23 05:00	2.48	0.00
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USGS	01471510	2007-07-23 06:30	2.48	0.00
USGS	01471510	2007-07-23 07:00	2.48	0.00
USGS	01471510	2007-07-23 07:30	2.47	0.00
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USGS	01471510	2007-07-23 08:30	2.47	0.00
USGS	01471510	2007-07-23 09:00	2.47	0.00
USGS	01471510	2007-07-23 09:30	2.48	0.00
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USGS	01471510	2007-07-23 13:30	2.48	0.00

USGS	01471510	2007-07-23 14:00	2.48	0.00
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USGS	01471510	2007-07-23 19:30	2.47	0.00
USGS	01471510	2007-07-23 20:00	2.47	0.00
USGS	01471510	2007-07-23 20:30	2.47	0.00
USGS	01471510	2007-07-23 21:00	2.47	0.00
USGS	01471510	2007-07-23 21:30	2.47	0.00
USGS	01471510	2007-07-23 22:00	2.47	0.00
USGS	01471510	2007-07-23 22:30	2.48	0.00
USGS	01471510	2007-07-23 23:00	2.48	0.00
USGS	01471510	2007-07-23 23:30	2.48	0.00
USGS	01471510	2007-07-24 00:00	2.48	0.00
USGS	01471510	2007-07-24 00:30	2.48	0.00
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USGS	01471510	2007-07-24 02:00	2.48	0.00
USGS	01471510	2007-07-24 02:30	2.48	0.00
USGS	01471510	2007-07-24 03:00	2.48	0.00
USGS	01471510	2007-07-24 03:30	2.47	0.00
USGS	01471510	2007-07-24 04:00	2.47	0.00
USGS	01471510	2007-07-24 04:30	2.47	0.00
USGS	01471510	2007-07-24 05:00	2.47	0.00
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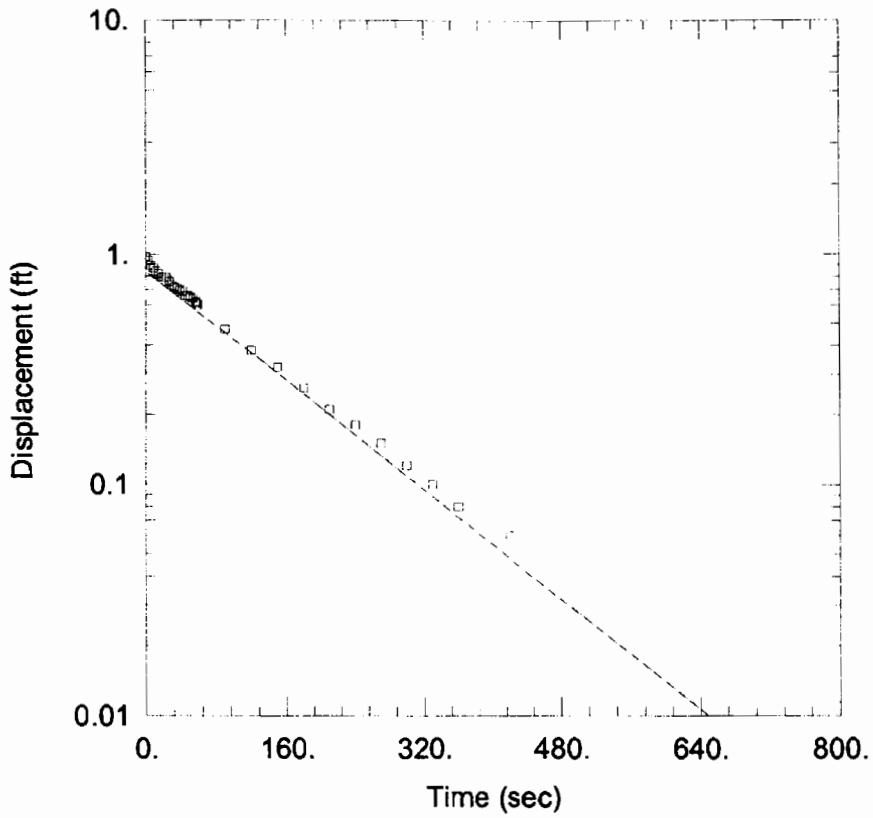
USGS	01471510	2007-07-24 06:00	2.47	0.00
USGS	01471510	2007-07-24 06:30	2.47	0.00
USGS	01471510	2007-07-24 07:30	2.47	0.00
USGS	01471510	2007-07-24 08:30	2.47	0.00

APPENDIX H

AQUIFER CHARACTERIZATION DATA



PZ-80S RISING HEAD

Data Set: C:\...\PZ-80S - RH.aqt
Date: 08/13/07 Time: 13:21:14

PROJECT INFORMATION

Company: CRA
Client: MASCO
Project: 013706
Test Location: Baldwin Hardware
Test Well: PZ-80S
Test Date: June 29, 2007

SOLUTION

Aquifer Model: Unconfined
Solution Method: Bouwer-Rice

K = 0.304 ft/day
y0 = 0.8393 ft

AQUIFER DATA

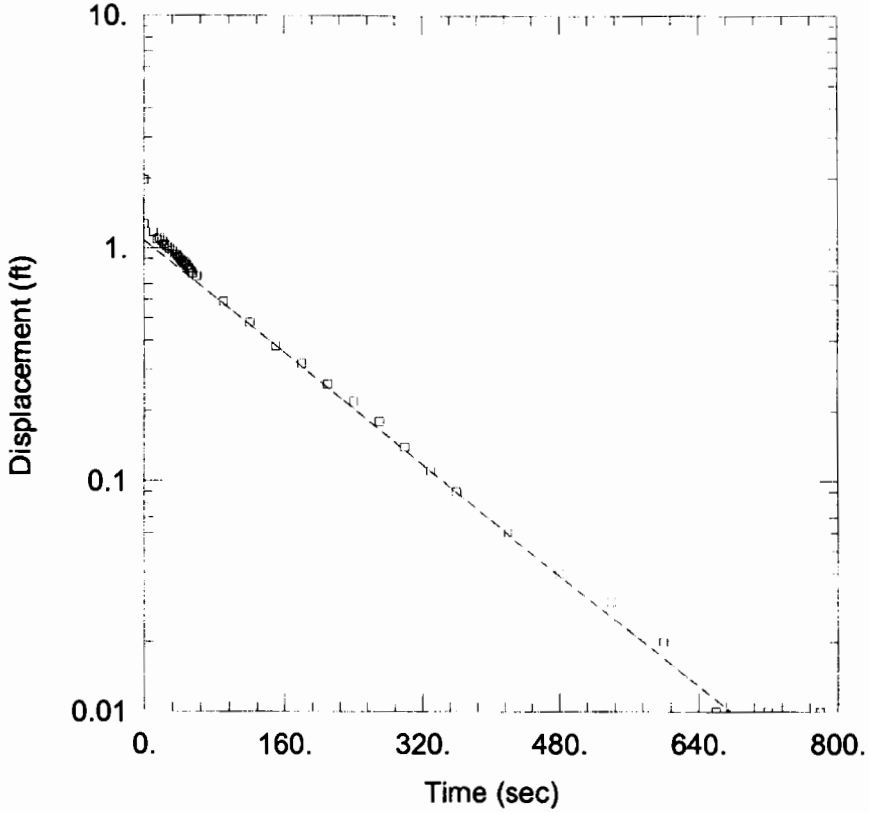
Saturated Thickness: 38.69 ft

Anisotropy Ratio (Kz/Kr): 1.

WELL DATA (PZ-80S)

Initial Displacement: 0.97 ft
Wellbore Radius: 0.6666 ft
Screen Length: 20. ft
Gravel Pack Porosity: 0.3

Casing Radius: 0.0833 ft
Well Skin Radius: 0.6666 ft
Total Well Penetration Depth: 38.69 ft



PZ-80S FALLING HEAD

Data Set: C:\...\PZ-80S - FH.aqt
Date: 08/13/07 Time: 13:21:27

PROJECT INFORMATION

Company: CRA, Inc.
Client: MASCO
Project: 013706
Test Location: Baldwin Hardware
Test Well: PZ-80S
Test Date: June 29, 2007

SOLUTION

Aquifer Model: Unconfined
Solution Method: Bouwer-Rice

K = 0.3079 ft/day
y0 = 1.077 ft

AQUIFER DATA

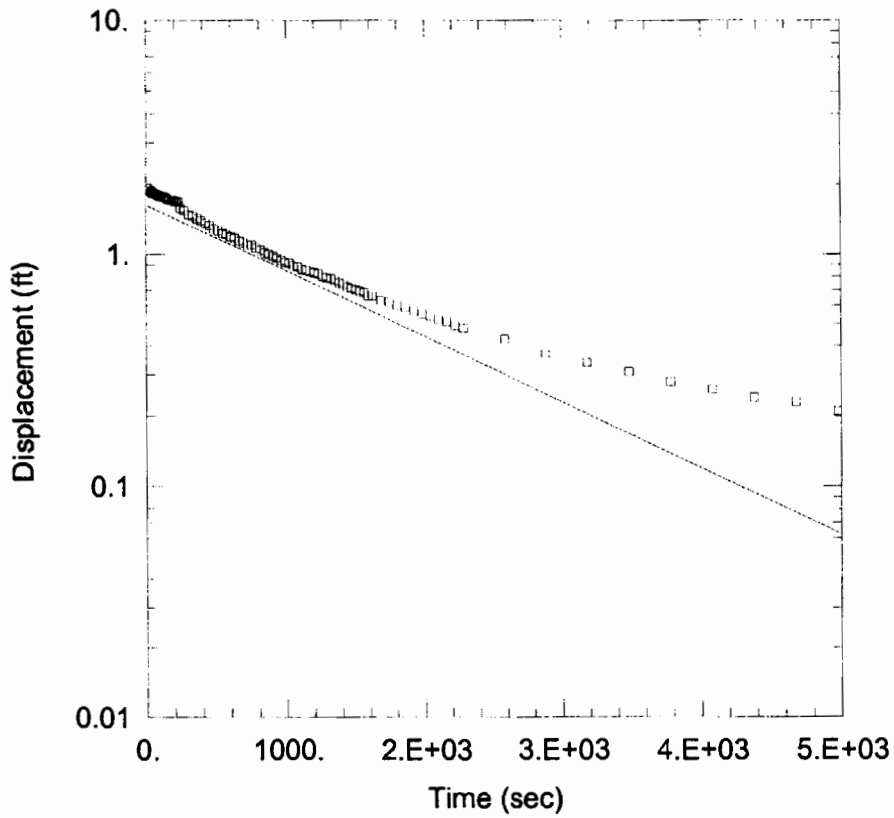
Saturated Thickness: 38.69 ft

Anisotropy Ratio (Kz/Kr): 1.

WELL DATA (PZ-80S)

Initial Displacement: 1.97 ft
Wellbore Radius: 0.6666 ft
Screen Length: 20. ft
Gravel Pack Porosity: 0.3

Casing Radius: 0.0833 ft
Well Skin Radius: 0.6666 ft
Total Well Penetration Depth: 38.69 ft



PZ-80I FALLING HEAD

Data Set: C:\...\PZ-80I - FH.aqt
Date: 08/13/07 Time: 13:21:42

PROJECT INFORMATION

Company: CRA
Client: MASCO
Project: 013706
Test Location: Baldwin Hardware
Test Well: PZ-80I
Test Date: June 29, 2007

SOLUTION

Aquifer Model: Unconfined
Solution Method: Bouwer-Rice

K = 0.05967 ft/day
y0 = 1.624 ft

AQUIFER DATA

Saturated Thickness: 84.07 ft

Anisotropy Ratio (Kz/Kr): 1.

WELL DATA (PZ-80I)

Initial Displacement: 1.93 ft
Wellbore Radius: 0.6666 ft
Screen Length: 10. ft
Gravel Pack Porosity: 0.3

Casing Radius: 0.0833 ft
Well Skin Radius: 0.6666 ft
Total Well Penetration Depth: 84.07 ft