

# Agua Fria River Floodplain Re-Delineation from Salt/Gila River to New River

## Technical Data Notebook

FCD 2007C053 Assignment #3



Prepared for:  
Flood Control District  
of Maricopa County



Submitted: June 2011  
Revised: August 2011

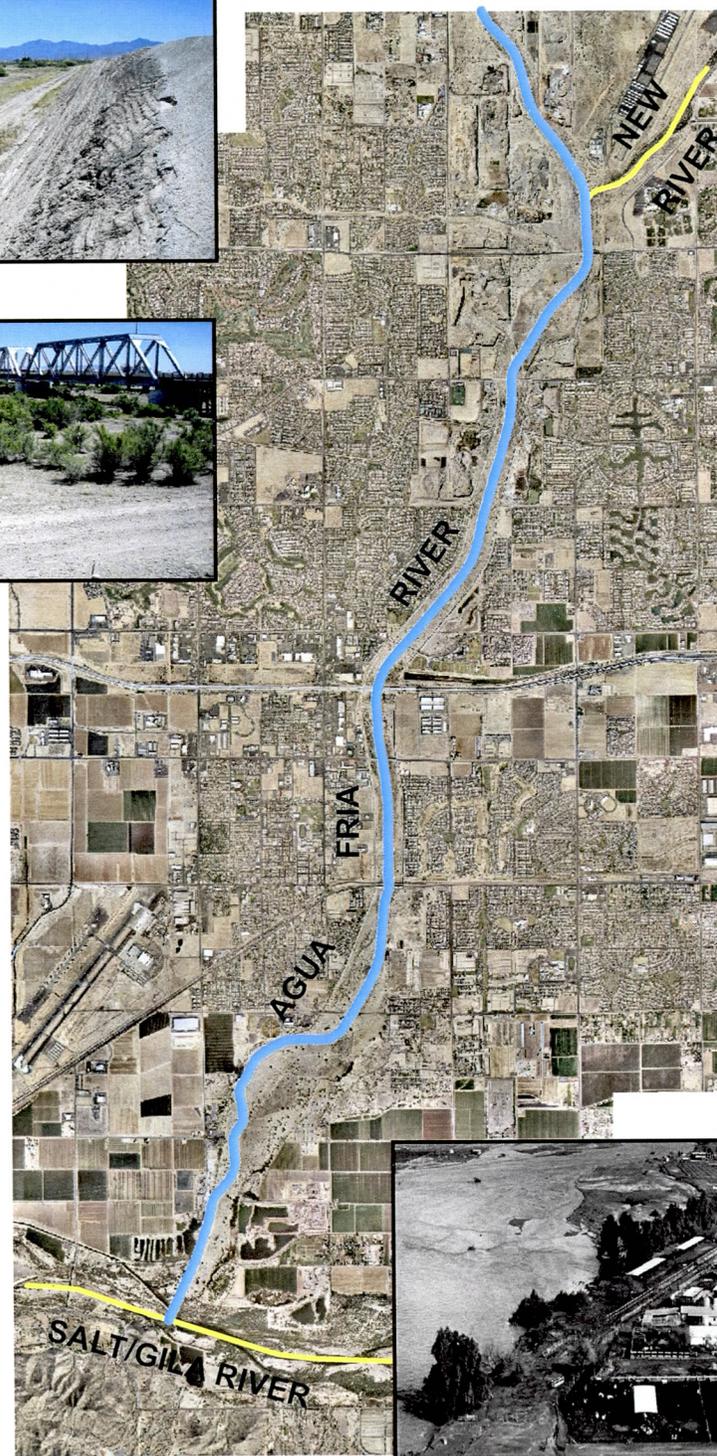
Prepared by:  
Stanley Consultants, Inc.



**Stanley Consultants** INC.

A Stanley Group Company  
Engineering, Environmental and Construction Services - Worldwide

In Conjunction with:  
WEST Consultants, Inc.



Agua Fria River at McDowell Road,  
Flood of February 22, 1980



# Flood Control District of Maricopa County

## Board of Directors

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[www.fcd.maricopa.gov](http://www.fcd.maricopa.gov)

2801 West Durango Street  
Phoenix, Arizona 85009  
Phone: 602-506-1501  
Fax: 602-506-4601  
TT: 602-505-5897

April 9, 2012

Charles Andrews, P.E.  
Senior Project Manager, Engineering Department  
City of Avondale  
11465 W. Civic Center Dr., Ste. 120  
Avondale, AZ 85323

**Subject: Disks: Floodplain Re-Delineation for the lower 10 miles of the Agua Fria River from the Salt / Gila River to New River**

Dear Mr. Andrews:

The purpose of this letter is to transmit to the City replacement disks for floodplain information for the Agua Fria River. The District previously received a signed Public Records request for this data and a new request is not needed. For the City's convenience, previous disk data is repeated here with some additions, so that the City has all applicable floodplain data on one disk dated April 3, 2012 with a white label. The City's GIS data request (see District's letter dated December 15, 2011) is updated with this disk, dated April 3, 2012 with a laser-etched disk label. Since there are some changes to each disk, the previous data and/or disks should be ignored or marked void.

There are two main studies for the updated floodplains data. The FCD2007C053 Assignment 3 project determined the main stem and some adjacent ponding/tributary floodplains. The FCD2010C027 Assignment 5 project performed the balance of the adjacent ponding floodplains, and is located via disk path D:\2007C053\Draft Files\Models\Hydrology. Please note the disk folder D:\2007C053\Draft Files\pdfs intentionally contains no files, as this is a standard folder from our Model Library. The results of FCD2007C051 Assignment 10 are referenced in the FCD2007C053 TDN and workmaps.

As seen in enclosed FEMA letters, the four levees (one of which is not in the City of Avondale) are accredited and the floodplains are approved. The City of Avondale, its citizens and property owners should know that the schedule for new FIRM Panels for these approved changes is not specified by FEMA. If you have questions concerning this information, please call me at 602-506-4617.

Sincerely,

A handwritten signature in cursive script that reads "Frank Edward Brown".

Frank Edward Brown, P.E., CFM, Senior Civil Engineer, Mitigation Planning & Technical Programs Branch, Floodplain Management and Services Division

C: Linda Mendenhall, FCDMC  
Charlie McClendon, City Manager  
Wayne Janis, Floodplain Administrator  
Sue McDermott, City Engineer, City of Avondale



# Flood Control District of Maricopa County

## INTEROFFICE MEMORANDUM

**Date:** 14 October 2011

**To:** Timothy S. Phillips, P.E., Chief Engineer and General Manager

**From:** Frank Brown, P.E., CFM

**Subject:** Agua Fria River Floodplain Re-Delineation Study from Salt/Gila to New River, Contract FCD 2007C053

The floodplain and floodway study for the Agua Fria River Floodplain Re-Delineation is ready for use as the best available technical information. The study documentation was sent to FEMA in support of levee certifications for review and at some future point will be incorporated by FEMA into the County's FIRM panels. The disk with the TDN and scanned work maps is being circulated with this memo.

The background for the study includes the following:

The study re-delineated approximately 10 linear miles of Zone AE floodplain with floodway, utilizing the current effective hydrology. The work maps also depict the updated Zone AH floodplains prepared by another of our consultants. The topographic basis for the study is 2-foot contour interval mapping in NAVD88 vertical datum. The majority of the study area was flown in January of 2011 by Wilson & Company. The study Consultant was Stanley Consultants. The Project Manager for the Consultant was Scott Buchanan, P.E. The Project Manager for the District was Frank Edward Brown, P.E., CFM.

Please concur and authorize below the use of this new study.

<i>Frank Brown</i> 17 Oct 2011	<i>[Signature]</i>
Project Manager Date:	Timothy S. Phillips, P.E., Chief Engineer and General Manager Date: 11/8/11
<i>[Signature]</i> 10/20/2011	
MPTP Branch Manager Date:	Assistant Project Manager Date:
<i>[Signature]</i> 10/21/11	
Hydrology/Hydraulics Branch Manager Date:	Technical Support Staff Date:
<i>Kellie Seitchik</i> 10/20/2011	
Floodplain Management & Services Division Manager Date:	Assistant Project Manager Date:
<i>[Signature]</i> 11/1/2011	
Engineering Division Manager Date:	Assistant Project Manager Date:
File Copies: 1. _____ 2. _____	<input checked="" type="checkbox"/> YES <input type="checkbox"/> GIS Posted (Pending Floodplain Only) Date: 10-20-2011 N/A



FEMA

March 16, 2012

Frank Brown, P.E., CFM  
Senior Civil Engineer  
Flood Control District Maricopa County  
2801 West Durango Street  
Phoenix, Arizona 85009

RE: Floodplain Delineations in Support of Levee Certification Packages for Agua Fria River  
Levees with IDs #8, 11, 16 and 18

Dear Mr. Brown:

This letter is in reference to your submittal of a Technical Data Notebook prepared by Stanley Consultants, Inc. and WEST Consultants, Inc. to update the floodplain delineations along the Agua Fria River, generally from the Salt/Gila River to New River in August 2011. The study was submitted in support of the Provisionally Accredited Agua Fria River Levees (IDs 8, 11, 16 and 18) that were determined to meet the levee certification requirements outlined in the Code of Federal Regulation, Title 44, Section 65.10 (44 CFR 65.10).

We have completed our review and have approved the submitted data. The revised floodplain delineations for the Agua Fria River will be incorporated into a future Physical Map Revision (PMR) for Maricopa County.

If you have any questions regarding this matter, please contact me, either by telephone at (510) 627-7274, or by email at [robert.bezek@fema.dhs.gov](mailto:robert.bezek@fema.dhs.gov).

Sincerely,

A handwritten signature in black ink, appearing to read "Robert J. Bezek".

Robert J. Bezek, CFM  
Regional Engineer  
Mitigation Division

cc: Brian Cosson, AZ DWR, NFIP State Coordinator  
Scott Buchanan, Stanley Consultants, Inc.  
Brian T. Wahlin, WEST Consultants, Inc.  
Charlie McClendon, City Manager, City of Avondale  
Sue McDermott, Floodplain Administrator, City of Avondale  
Charles Andrews, Senior Project Manager, City of Avondale  
David Cavazos, City Manager, City of Phoenix  
Hasan Mushtaq, Floodplain Administrator, City of Phoenix

**Frank Brown - FCDX**

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**From:** Frank Brown - FCDX  
**Sent:** Thursday, March 08, 2012 6:19 PM  
**To:** Sarah Houghland  
**Cc:** Tim Murphy - FCDX; Robert.Bezek@fema.dhs.gov  
**Subject:** Lower Agua Fria River re-Delineation Study TDN  
**Attachments:** Agua Fria River Floodway Data-FCD.xls; Agua Fria River Floodway Data-FCD.pdf; Agua Fria River Stillwater Data-FCD.pdf

Hello Sarah,  
We spoke on the telephone recently and you requested a Stillwater Table and a Floodway Data Table for the Lower Agua Fria River Re-Delineation Study TDN.

The requested two tables are enclosed. In addition, the native file format is being sent, for your ease of use. Not much time was spent formatting the tables, anticipating that FEMA would insert the data into a standard table format with FIS title block and other standard information.

Please let me know if the results of this re-delineation study are still on track to be incorporated into the Countywide 2012 DFIRM panels?

Sincerely,

*Frank*  
Frank Brown, P.E., CFM  
Senior Civil Engineer  
Mitigation Planning & Technical Programs Branch | *Floodplain Management and Services Division* |  
**Flood Control District of Maricopa County**  
2801 W. Durango Street, Phoenix, AZ 85009  
Direct (602) 506-4617 | Fax (602) 506-7346 | Main (602) 506-1501  
[FrankBrown@mail.maricopa.gov](mailto:FrankBrown@mail.maricopa.gov)  
<http://www.fcd.maricopa.gov/>

Table 9 - Summary of Stillwater Elevations

Flooding Source	Subbasin Name	Water Surface Elevations (Feet NAVD 1988)	
			1% Annual Chance
RID Canal to Thomas Rd. (east side)	TMAF		946.2
Thomas Rd. to McDowell Rd. (east side)	MDAF		983.2
Rio Vista Lane to End of Levee (near Lower Buckeye Rd.) (east side)	Lower Buckeye		950.1
Upstream end of Levee ID #18 to Indian School Rd (west side)	B22	1,011.2	
Indian School Rd to RID Canal (west side)	B25		991.6
RID to Thomas Rd (west side)	B27		999.2
Thomas Rd to McDowell Rd (west side)	B28		983.8
I10 to Van Buren St (west side)	B30 NORTH		976.9
I10 to Van Buren St (west side)	B30 SOUTH		976.9
Van Buren St to State Highway 85 (west side)	B31 MAIN		963.6
Van Buren St to State Highway 85 (west side)	B31 STRIP		963.6

Table 5 - Floodway Data

ALPHA-BETIC (by FEMA)	FLOODWAY		FLOODWAY	FLOODWAY	REGULATORY	WITHOUT	WITH	INCREASE Prof Delta WS (ft)
	DISTANCE	WIDTH (ft)	SECTION AREA (sq ft)	MEAN VELOCITY (ft/s)	FLOODPLAIN W.S. Elev (ft)	FLOODWAY W.S. Elev (ft)	FLOODWAY W.S. Elev (ft)	
	0.320	2,216	6,091	8.8	917.5	917.5	917.5	0.0
	0.400	2,167	15,102	9.4	919.0	919.0	919.0	0.0
	0.490	2,484	30,454	7.7	922.0	922.0	922.4	0.4
	0.590	2,651	31,452	5.2	923.6	923.6	924.2	0.6
Elevations Computed without Consideration of Backwater Effects from Gila River								
Elevations Computed without Consideration of Backwater Effects from Gila River								
Elevations Computed without Consideration of Backwater Effects from Gila River								
Elevations Computed without Consideration of Backwater Effects from Gila River								
	0.690	2,625	30,370	4.8	924.6	924.6	925.4	0.8
	0.780	2,172	22,892	6.3	925.6	925.6	926.3	0.7
	0.880	2,278	14,552	4.6	927.1	927.1	927.7	0.6
	0.970	1,880	7,511	6.9	928.0	928.0	928.5	0.5
	1.050	1,724	9,513	5.9	929.4	929.4	930.2	0.8
	1.150	1,851	12,479	4.6	930.3	930.3	931.3	1.0
	1.270	1,638	11,491	4.7	931.1	931.1	931.9	0.8
	1.350	1,546	9,123	6.1	931.4	931.4	932.2	0.8
	1.450	1,459	8,275	7.4	932.3	932.3	932.9	0.6
	1.540	1,590	7,702	8.2	933.9	933.9	934.1	0.2
	1.640	1,658	10,011	5.1	935.3	935.3	935.8	0.5
	1.740	1,765	9,239	5.5	936.0	936.0	936.4	0.4
	1.830	1,808	9,465	5.4	936.7	936.7	937.1	0.4
	1.940	1,945	8,893	5.7	937.5	937.5	937.9	0.4
	2.040	1,873	8,240	6.2	938.3	938.3	938.7	0.4
	2.120	1,984	9,142	5.6	939.1	939.1	939.6	0.5
	2.200	2,001	9,169	6.1	939.9	939.9	940.3	0.4
	2.290	1,833	8,287	6.1	940.9	940.9	941.3	0.4
	2.380	1,662	8,216	6.2	941.9	941.9	942.3	0.4
	2.460	1,517	7,837	6.5	942.7	942.7	943.3	0.6
	2.540	1,425	7,770	6.6	943.5	943.5	944.1	0.6
	2.640	1,370	7,888	6.5	944.6	944.6	945.2	0.6
	2.740	1,379	8,193	6.2	945.8	945.8	946.4	0.6
	2.850	1,603	9,441	5.4	946.8	946.8	947.6	0.8
	2.950	1,577	9,414	5.4	947.7	947.7	948.4	0.7
	3.050	1,762	10,871	4.7	948.6	948.6	949.2	0.6
	3.150	1,984	12,997	3.9	949.2	949.2	949.7	0.5
	3.240	2,019	11,876	4.3	949.7	949.7	950.1	0.4
	3.340	1,985	11,912	4.3	950.3	950.3	950.6	0.3
	3.430	1,902	10,350	4.9	950.8	950.8	951.1	0.3
	3.530	1,818	9,986	5.1	951.7	951.7	951.9	0.2
	3.620	1,739	9,501	5.4	952.4	952.4	952.6	0.2
	3.730	1,356	9,699	5.2	953.2	953.2	953.3	0.1
	3.810	1,300	8,347	6.1	953.8	953.8	953.8	0.0
	3.850	1,179	5,813	8.8	953.8	953.8	953.9	0.1
	3.880	1,186	6,209	8.2	954.7	954.7	954.7	0.0
	3.920	1,099	5,880	8.7	955.4	955.4	955.5	0.1
	4.000	938	6,095	8.4	957.0	957.0	957.0	0.0
	4.090	807	5,876	8.7	958.4	958.4	958.4	0.0
	4.130	866	6,210	8.2	959.2	959.2	959.2	0.0
	4.180	1,116	6,107	8.3	960.1	960.1	960.1	0.0
	4.210	1,114	6,819	7.5	960.9	960.9	960.9	0.0
	4.220	1,116	7,448	6.8	961.5	961.5	961.5	0.0
	4.250	1,112	7,591	6.7	961.8	961.8	961.8	0.0
	4.260	1,017	6,830	7.6	961.8	961.8	961.8	0.0
	4.280	1,138	7,967	6.5	962.3	962.3	962.3	0.0
	4.380	1,114	7,871	6.6	963.2	963.2	963.2	0.0
	4.470	1,113	8,497	6.1	964.1	964.1	964.1	0.0
	4.490	1,017	7,674	6.8	964.1	964.1	964.1	0.0
	4.510	1,114	10,610	4.9	964.6	964.6	964.6	0.0
	4.550	1,111	4,517	11.5	964.2	964.2	964.2	0.0

ALPHA-BETIC (by FEMA)	DISTANCE	FLOODWAY	FLOODWAY	FLOODWAY	REGULATORY	WITHOUT	WITH	INCREASE Prof Delta WS
		WIDTH	SECTION AREA	MEAN VELOCITY	FLOODPLAIN	FLOODWAY	FLOODWAY	
		(ft)	(sq ft)	(ft/s)	W.S. Elev (ft)	W.S. Elev (ft)	W.S. Elev (ft)	(ft)
	4.610	1,113	7,246	7.2	966.5	966.5	966.5	0.0
	4.700	1,114	7,661	6.8	967.4	967.4	967.4	0.0
	4.720	1,011	6,824	7.6	967.4	967.4	967.4	0.0
	4.740	1,111	7,809	6.7	967.8	967.8	967.8	0.0
	4.840	1,112	8,087	6.4	968.5	968.5	968.5	0.0
	4.930	1,111	7,926	6.6	969.1	969.1	969.1	0.0
	4.950	1,008	6,952	7.5	969.1	969.1	969.1	0.0
	4.970	1,110	7,385	7.0	969.4	969.4	969.4	0.0
	5.050	1,110	7,960	6.5	970.2	970.2	970.2	0.0
	5.150	1,110	7,755	6.7	970.9	970.9	970.9	0.0
	5.190	1,119	7,301	7.1	971.3	971.3	971.3	0.0
	5.210	1,124	8,020	6.5	971.8	971.8	971.8	0.0
	5.240	1,117	7,371	7.1	972.1	972.1	972.1	0.0
	5.330	1,174	8,475	6.1	973.2	973.2	973.2	0.0
	5.430	1,255	9,265	5.6	974.0	974.0	974.0	0.0
	5.450	1,181	8,677	6.0	974.0	974.0	974.0	0.0
	5.470	1,286	9,316	5.6	974.2	974.2	974.2	0.0
	5.540	1,348	9,356	5.6	974.8	974.8	974.8	0.0
	5.600	1,382	9,759	5.3	975.1	975.1	975.1	0.0
	5.650	1,396	4,889	10.6	975.5	975.5	975.5	0.0
	5.690	1,363	6,862	7.6	977.9	977.9	977.9	0.0
	5.720	1,249	6,539	8.0	978.3	978.3	978.3	0.0
	5.740	1,341	7,714	6.7	979.0	979.0	979.0	0.0
	5.780	1,363	7,785	6.7	979.7	979.7	979.7	0.0
	5.840	1,272	7,438	7.3	980.3	980.3	980.3	0.0
	5.940	1,365	8,869	6.5	981.7	981.7	981.7	0.0
	5.970	1,522	8,880	7.5	981.9	981.9	981.9	0.0
	6.000	1,803	10,714	6.9	982.4	982.4	982.4	0.0
	6.110	1,132	7,482	7.3	983.7	983.7	983.7	0.0
	6.150	1,212	8,140	6.7	984.3	984.3	984.3	0.0
	6.160	1,212	8,309	6.5	984.5	984.5	984.5	0.0
	6.220	1,123	7,816	7.0	984.9	984.9	984.9	0.0
	6.240	1,126	7,965	6.8	985.2	985.2	985.2	0.0
	6.270	1,021	7,107	7.7	985.3	985.3	985.3	0.0
	6.300	1,113	7,806	7.0	985.7	985.7	985.7	0.0
	6.390	1,114	7,581	7.2	986.4	986.4	986.4	0.0
	6.490	1,113	7,823	7.0	987.3	987.3	987.3	0.0
	6.570	1,112	7,251	7.5	987.8	987.8	987.8	0.0
	6.660	1,113	6,020	9.0	988.8	988.8	988.8	0.0
	6.750	1,116	6,871	7.9	990.5	990.5	990.5	0.0
	6.850	1,097	7,409	7.3	991.7	991.7	991.7	0.0
	6.930	1,068	7,438	7.3	992.4	992.4	992.4	0.0
	7.020	1,096	7,336	7.4	993.2	993.2	993.2	0.0
	7.030	1,003	6,571	8.3	993.2	993.2	993.2	0.0
	7.050	1,106	7,525	7.2	993.7	993.7	993.7	0.0
	7.080	1,110	7,338	7.4	993.9	993.9	993.9	0.0
	7.100	1,014	6,830	8.0	994.0	994.0	994.0	0.0
	7.130	1,113	7,925	6.9	994.6	994.6	994.6	0.0
	7.160	1,113	7,543	7.2	994.7	994.7	994.7	0.0
	7.180	1,112	7,742	7.0	995.0	995.0	995.0	0.0
	7.210	1,013	6,790	8.0	995.0	995.0	995.0	0.0
	7.230	1,113	7,626	7.1	995.5	995.5	995.5	0.0
	7.270	1,113	7,676	7.1	995.8	995.8	995.8	0.0
	7.290	1,011	6,962	7.8	995.9	995.9	995.9	0.0
	7.310	1,112	8,193	6.6	996.4	996.4	996.4	0.0
	7.380	1,109	6,099	8.9	996.7	996.7	996.7	0.0
	7.400	1,016	5,595	9.7	996.9	996.9	996.9	0.0
	7.420	1,126	6,841	8.0	997.7	997.7	997.7	0.0
	7.460	1,131	7,008	7.8	998.3	998.3	998.3	0.0
	7.480	1,015	6,342	8.6	998.4	998.4	998.4	0.0
	7.510	1,110	7,147	7.6	999.0	999.0	999.0	0.0
	7.550	1,096	6,998	7.8	999.4	999.4	999.4	0.0
	7.570	996	6,269	8.7	999.5	999.5	999.5	0.0

ALPHA-BETIC (by FEMA)	DISTANCE	FLOODWAY	FLOODWAY	FLOODWAY	REGULATORY	WITHOUT	WITH	INCREASE Prof Delta WS (ft)
		WIDTH (ft)	SECTION AREA (sq ft)	MEAN VELOCITY (ft/s)	FLOODPLAIN W.S. Elev (ft)	FLOODWAY W.S. Elev (ft)	FLOODWAY W.S. Elev (ft)	
	7.600	1,085	7,143	7.6	1,000.1	1,000.1	1,000.1	0.0
	7.690	1,061	7,062	7.7	1,001.1	1,001.1	1,001.1	0.0
	7.780	1,027	6,775	8.0	1,002.0	1,002.0	1,002.0	0.0
	7.880	1,005	6,722	8.1	1,003.1	1,003.1	1,003.1	0.0
	7.980	980	6,659	8.2	1,004.2	1,004.2	1,004.2	0.0
	8.070	984	6,854	7.9	1,005.3	1,005.3	1,005.3	0.0
	8.160	1,005	7,262	7.5	1,006.2	1,006.2	1,006.2	0.0
	8.260	1,030	7,788	7.0	1,007.1	1,007.1	1,007.1	0.0
	8.350	1,110	8,082	6.7	1,007.8	1,007.8	1,007.8	0.0
	8.440	1,316	8,183	6.6	1,008.5	1,008.5	1,008.5	0.0
	8.480	1,370	8,330	6.5	1,008.8	1,008.8	1,008.8	0.0
	8.490	1,396	9,752	5.6	1,009.2	1,009.2	1,009.2	0.0
	8.530	1,424	10,842	5.0	1,009.5	1,009.5	1,009.5	0.0
	8.540	1,449	9,568	5.7	1,009.5	1,009.5	1,009.5	0.0
	8.620	1,501	9,243	5.9	1,010.2	1,010.2	1,010.2	0.0
	8.720	1,467	9,326	5.8	1,011.0	1,011.0	1,011.0	0.0
	8.850	1,562	12,867	4.2	1,012.9	1,012.9	1,012.9	0.0
	8.878	1,860	15,115	3.6	1,013.0	1,013.0	1,013.1	0.1
	8.904	1,988	16,530	3.3	1,013.1	1,013.1	1,013.2	0.1
	8.932	2,071	18,365	3.0	1,013.2	1,013.2	1,013.3	0.1
	8.959	2,145	19,115	2.8	1,013.3	1,013.3	1,013.3	0.0
	8.982	2,271	20,194	2.7	1,013.3	1,013.3	1,013.4	0.1
	9.004	2,419	21,759	2.5	1,013.4	1,013.4	1,013.4	0.0
	9.038	2,582	23,063	2.4	1,013.4	1,013.4	1,013.4	0.0
	9.059	2,565	23,592	2.3	1,013.4	1,013.4	1,013.5	0.1
	9.082	2,518	23,236	2.3	1,013.4	1,013.4	1,013.5	0.1
	9.109	2,397	22,120	2.5	1,013.5	1,013.5	1,013.5	0.0
	9.131	2,338	21,932	2.5	1,013.5	1,013.5	1,013.5	0.0
	9.172	2,238	20,515	2.7	1,013.5	1,013.5	1,013.5	0.0
	9.193	2,089	18,698	2.9	1,013.5	1,013.5	1,013.6	0.1
	9.225	2,008	17,583	3.1	1,013.5	1,013.5	1,013.6	0.1
	9.267	1,932	15,365	3.5	1,013.6	1,013.6	1,013.6	0.0
	9.292	1,846	15,094	3.6	1,013.6	1,013.6	1,013.7	0.1
	9.324	1,934	15,273	3.6	1,013.7	1,013.7	1,013.8	0.1
	9.353	1,980	15,277	3.6	1,013.8	1,013.8	1,013.8	0.0
	9.379	1,923	14,790	3.7	1,013.9	1,013.9	1,013.9	0.0
	9.400	1,856	13,976	3.9	1,013.9	1,013.9	1,013.9	0.0
	9.422	1,731	12,752	4.3	1,013.9	1,013.9	1,014.0	0.1
	9.445	1,672	11,712	4.6	1,014.0	1,014.0	1,014.0	0.0
	9.467	1,624	10,894	5.0	1,014.1	1,014.1	1,014.1	0.0
	9.487	1,495	9,646	5.6	1,014.1	1,014.1	1,014.2	0.1
	9.518	1,327	7,245	7.5	1,014.2	1,014.2	1,014.2	0.0
	9.546	1,121	4,696	11.6	1,014.6	1,014.6	1,014.6	0.0
	9.569	1,301	4,914	11.1	1,017.8	1,017.8	1,017.8	0.0
	9.602	1,400	5,678	9.6	1,020.0	1,020.0	1,020.0	0.0
	9.624	1,595	6,008	9.1	1,021.0	1,021.0	1,021.1	0.1
	9.643	1,707	7,248	7.5	1,022.1	1,022.1	1,022.1	0.0
	9.663	1,692	8,308	6.5	1,022.7	1,022.7	1,022.7	0.0
	9.686	1,670	8,882	6.1	1,023.1	1,023.1	1,023.1	0.0
	9.704	1,662	8,906	6.1	1,023.3	1,023.3	1,023.3	0.0
	9.725	1,688	9,188	5.9	1,023.9	1,023.9	1,023.9	0.0
	9.792	1,819	8,801	6.2	1,024.7	1,024.7	1,024.7	0.0
	9.869	1,851	8,622	6.3	1,025.8	1,025.8	1,025.8	0.0
	9.961	1,587	8,431	6.5	1,027.1	1,027.1	1,027.1	0.0
	10.046	1,503	7,851	6.9	1,028.2	1,028.2	1,028.2	0.0

Distance is miles above confluence with Gila River



# Flood Control District of Maricopa County

## Board of Directors

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Don Stapely, District 2  
Andrew Kunasek, District 3  
Max Wilson, District 4  
Mary Rose Wilcox, District 5

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February 1, 2012

Charles Andrews, P.E.  
Senior Project Manager, Engineering Department  
City of Avondale  
11465 W. Civic Center Dr., Ste. 120  
Avondale, AZ 85323

**Subject: Floodplains for the Agua Fria River from the Salt / Gila River to New River**

Dear Mr. Andrews:

This letter is in response to a recent data request from an outside engineer, which the City will fulfill. In reviewing previous data that the District sent to the City, it appears some files were not sent to the City of Avondale. The District previously received a signed Public Records request for this data and some of the enclosed data should have been on that disk. For the City's convenience, the previous (January 11, 2012 and others) data is repeated here, so that the City has all applicable floodplain data on one disk. The City's GIS data request, fulfilled per the District's letter dated December 15, 2011, is not repeated on this disk.

As stated in the January 11 letter to you, this update to the lower 10 miles of the Agua Fria River floodplain and floodway presents new BFE's and ponded water surface elevations from the Salt / Gila River to New River, based on recent topographic mapping much newer than the current FCD95-05 study. About 6 miles of the 10 mile study reach were flown in January 2011.

Although the levees adjacent to this floodplain are now accredited by FEMA, which included a review of the HEC-RAS hydraulic model, this floodplain information is currently being reviewed by FEMA for any outstanding floodplain mapping issues. FEMA has not yet asked the District to provide a City of Avondale Community Acknowledgment Form. After FEMA's final approval, the District would like to borrow your copy of the TDN in order to finalize it.

It is important that the City of Avondale understand this floodplain information is pending FEMA review and could be revised by review comments. Everyone at the City of Avondale obtaining or using this data should be made aware of this fact and use appropriate caution. If you have questions concerning this information, please call me at 602-506-4617.

Sincerely,

A handwritten signature in cursive script that reads "Frank Brown".

Frank Edward Brown, P.E., CFM, Senior Civil Engineer, Mitigation Planning & Technical Programs Branch, Floodplain Management and Services Division

C: Linda Mendenhall, FCDMC  
Charlie McClendon, City Manager  
Wayne Janis, Floodplain Administrator  
Sue McDermott, City Engineer, City of Avondale



# Flood Control District of Maricopa County

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December 15, 2011

Charles Andrews, P.E.  
Senior Project Manager, Engineering Department  
City of Avondale  
11465 W. Civic Center Dr., Ste. 120  
Avondale, AZ 85323

**Subject: Floodplains for Agua Fria River Levees, Data request**

Dear Mr. Andrews:

The City of Avondale, via GIS Technician II Harley Maniago and my conversation with you, has requested the available floodplain information, recent aerial photographs and recent topographic mapping and survey data for the lower Agua Fria River. Enclosed is a DVD disk with the requested data in the appropriate format files. The District has received a signed Public Records request for this data. The data disk contains the data described in the attached File Inventory Report and the other two disks contain the survey data with survey report.

It is important to note that all four of the ZIP files on the disk are not the most current in our system for certain floodplain data, so please ignore them when loading this disk into the City's system. The correct files are being sent to Mr. Maniago via email. We will send you the final floodplain data once approved by FEMA and our GIS Division. At some future point in the FEMA approval process, FEMA will ask the District to provide a City of Avondale Community Acknowledgment Form.

If you have questions concerning this information, please call me at 602-506-4617.

Sincerely,

A handwritten signature in cursive script that reads "Frank Brown".

Frank Edward Brown, P.E., CFM  
Senior Civil Engineer, Mitigation Planning & Technical Programs Branch,  
Floodplain Management and Services Division

C: Linda Mendenhall, FCDMC  
Hatley Maniago, GIS Technician II, City of Avondale



FEMA

November 23, 2011

Frank Brown, P.E., CFM  
Senior Civil Engineer  
Flood Control District Maricopa County  
2801 West Durango Street  
Phoenix, Arizona 85009

Dear Mr. Brown:

This correspondence is in reference to the June 23, 2011, and August 25, 2011, letters and data submissions to the U.S. Department of Homeland Security's Federal Emergency Management Agency (FEMA) regarding certification of the city of Avondale, the city of Phoenix, and Maricopa County portions of the Agua Fria River Levee System in order to meet the criteria of the Code of Federal Regulations, Title 44, Section 65.10 (44 CFR 65.10). The submitted data has been approved, and the levees are considered accredited. The pertinent information regarding the specific levees is listed below.

<b>Identifier:</b>	Agua Fria Levee System (Levee ID Nos. 8, 11, 16, and 18)
<b>Flooding Source:</b>	Agua Fria River
<b>September 30, 2005 Effective FIRM panels affected:</b>	04013C1620H, 04013C2080J, 04013C2085G & 04013C2090H
<b>December 3, 2010 Preliminary FIRM panels affected:</b>	04013C1695L, 04013C2155L, 04013C2160L & 04013C2165L

In support of the Agua Fria Levee System segment certifications the following information was submitted:

1. A report prepared by West Consultants, Inc., "Agua Fria River FEMA Levee Certification Package for Levee ID #8."
2. A report prepared by JE Fuller Hydrology & Geomorphology, Inc., "Certification Report for Camelback Ranch Levee South (ID #11) – Camelback Road to 3600 feet south along the east bank of the Agua Fria River – Maricopa County, Arizona."
3. A report prepared by West Consultants, Inc., "Agua Fria River FEMA Levee Certification Package for Levee ID #16."
4. A report prepared by West Consultants, Inc., "Agua Fria River FEMA Levee Certification Package for Levee ID #18."

The Technical Data Notebooks prepared by JE Fuller Hydrology & Geomorphology, Inc. and West Consultants, Inc., were reviewed to verify 44 CFR 65.10 compliance. The following is a summary of the review:

1. Freeboard: Analysis and Supporting Documentation was reviewed and found to be in compliance with 44 CFR 65.10(b)(1).
2. Closures: Analysis and Supporting Documentation was reviewed and found to be in compliance with 44 CFR 65.10(b)(2).
3. Embankment Protection: Analysis and Supporting Documentation was reviewed and found to be in compliance with 44 CFR 65.10(b)(3).
4. Embankment and Foundation Stability: Analysis and Supporting Documentation was reviewed and found to be in compliance with 44 CFR 65.10(b)(4).
5. Settlement: Analysis and Supporting Documentation was reviewed and found to be in compliance with 44 CFR 65.10(b)(5).
6. Maintenance Plans and Criteria: Supporting Documentation was reviewed and found to be in compliance with 44 CFR 65.10(d).

All of the above documentation and data, along with the previously submitted documentation, have been reviewed and based on receipt of this information the Agua Fria River Levee System (Levee ID Nos. 8, 11, 16 and 18) as shown on the attached Agua Fria River Levee System Map, meets the minimum certification criteria outlined in 44 CFR 65.10. Therefore, we plan to continue to accredit this levee system on the new Digital Flood Insurance Rate Map (FIRM) as providing protection from the 1-percent-annual-chance (base) flood. The area protected from the base flood by this levee will continue to be mapped as a shaded Zone X and a note will be placed in that area warning of the flood risk that still exists.

Please be advised that levee systems and the estimated level of protection provided by these systems can and do change with time. Future map updates may require the levee system to be certified again at the time of update. Also, design, construction, operation, and/or maintenance documents may be requested at any time. Deviations from the documentation and data submitted to FEMA could result in the levee system no longer being mapped as providing protection from the base flood on future FIRMs. If at any point additional information is provided to FEMA that shows the levee system no longer meets certification criteria as outlined in 44 CFR 65.10, we will contact the levee owner and community about the possibility of de-accrediting the levee system.

Even though we have mapped the referenced levees as providing protection from the 1-percent-annual-chance flood, it is important to note that levees are only designed to provide a specific level of protection. They can be overtopped or fail in larger flood events. Levee systems require regular maintenance and periodic upgrades to retain their level of protection. When levees do fail, they fail catastrophically, and damage may be more significant than if the levee was not there. Therefore, we encourage you to annually discuss the status and condition of your levees with your governing body. Additionally, it is highly recommended that you consider this risk in your local emergency management plans, including creating evacuation plans for this area.

Everyone should understand the risk to life and property that resides behind levees—risk that even the best flood-control system can not completely eliminate. For this reason, FEMA encourages people to understand their risk. The National Flood Insurance Program (NFIP) was created to reduce flood damages by identifying flood risks, encouraging sound community floodplain management practices, and

Mr. Frank Brown  
November 23, 2011  
Page 3 of 3

providing flood insurance to lessen the financial impact of flooding. Through the NFIP, property owners in participating communities are able to purchase flood insurance that will insure against flood losses. We hope that you will encourage property owners to purchase flood insurance.

If you have additional questions regarding this matter, please contact me, either by telephone at (510) 627-7274, or by email at [robert.bezek@fema.dhs.gov](mailto:robert.bezek@fema.dhs.gov).

Sincerely,



Robert J. Bezek, CFM  
Regional Engineer  
Mitigation Division

Enclosure:

Agua Fria River Levee System Map

Copies Furnished (w/out enclosures):

Brian Cosson, AZ DWR, NFIP Coordinator  
Tony Freiman, AMEC Earth & Environmental, Inc.  
Steve Nowaczyk, Ninyo and Moore  
Jon T. Ahern, JE Fuller Hydrology & Geomorphology, Inc.  
Scott Buchanan, Stanley Consultants, Inc.  
Brian T. Wahlin, WEST Consultants, Inc.  
Charlie McClendon, City Manager, City of Avondale  
Sue McDermott, Floodplain Administrator, City of Avondale  
David Cavazos, City Manager, City of Phoenix  
Hasan Mushtaq, Floodplain Administrator, City of Phoenix



# Flood Control District of Maricopa County

**Board of Directors**  
Fulton Brock, District 1  
Don Stapley, District 2  
Andrew Kunasek, District 3  
Max Wilson, District 4  
Mary Rose Wilcox, District 5

www.fcd.maricopa.gov

2801 West Durango Street  
Phoenix, Arizona 85009  
Phone: 602-506-1501  
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January 11, 2012

Charles Andrews, P.E.  
Senior Project Manager, Engineering Department  
City of Avondale  
11465 W. Civic Center Dr., Ste. 120  
Avondale, AZ 85323

**Subject: Floodplains for the Agua Fria River from the Salt / Gila River to New River**

Dear Mr. Andrews:

This letter is in response to a recent telephone conversation to share with the City of Avondale the preliminary updated floodplain information for the lower 10 miles of the Agua Fria River. Having this data now may enhance the City's floodplain management efforts. Enclosed is a paper copy of the floodplain work maps (full size), and the TDN with CD/DVD disk and paper copy annotated FIRM Panels (folded).

This update to the Agua Fria River floodplain and floodway presents new BFE's and ponded water surface elevations from the Salt / Gila River to New River, based on recent topographic mapping much newer than the current FCD95-05 study. About 6 miles of the 10 mile study reach were flown in January 2011.

Although the levees adjacent to this floodplain are now accredited by FEMA, which included a review of the HEC-RAS hydraulic model, this floodplain information is being reviewed by FEMA for any outstanding floodplain mapping issues. FEMA has not yet asked the District to provide a City of Avondale Community Acknowledgment Form.

It is important that the City of Avondale understand this floodplain information is pending FEMA review and could be revised by review comments. Everyone at the City of Avondale obtaining or using this data should be made aware of this fact and use appropriate caution. After FEMA's final approval, the District would like to borrow your copy of the TDN in order to finalize it. If you have questions concerning this information, please call me at 602-506-4617.

Sincerely,

A handwritten signature in black ink that reads 'Frank Brown'.

Frank Edward Brown, P.E., CFM  
Senior Civil Engineer, Mitigation Planning & Technical Programs Branch,  
Floodplain Management and Services Division

C: Linda Mendenhall, FCDMC  
Charlie McClendon, City Manager, Wayne Janis, Floodplain Administrator and  
Sue McDermott, City Engineer, City of Avondale



# Flood Control District of Maricopa County

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TT: 602-505-5897

January 11, 2012

Hasan Mushtaq, PhD, PE, CFM  
Phoenix City Hall, 5th Floor  
200 W. Washington St.  
Phoenix AZ 85003-1611

**Subject: Floodplains for the Agua Fria River from the Salt / Gila River to New River**

Dear Dr. Mushtaq:

This letter is in response to a recent telephone conversation to share with the City of Phoenix the preliminary updated floodplain information for the lower 10 miles of the Agua Fria River. Having this data now may enhance the City's floodplain management efforts. Enclosed is a paper copy of the floodplain work maps (full size), and the TDN with CD/DVD disk and paper copy annotated FIRM Panels (folded).

This update to the Agua Fria River floodplain and floodway presents new BFE's and ponded water surface elevations from the Salt / Gila River to New River, based on recent topographic mapping much newer than the current FCD95-05 study. About 6 miles of the 10 mile study reach were flown in January 2011.

Although the levees adjacent to this floodplain are now accredited by FEMA, which included a review of the HEC-RAS hydraulic model, this floodplain information is being reviewed by FEMA for any outstanding floodplain mapping issues. FEMA has not yet asked the District to provide a City of Avondale Community Acknowledgment Form.

It is important that the City of Phoenix understand this floodplain information is pending FEMA review and could be revised by review comments. Everyone at the City of Phoenix obtaining or using this data should be made aware of this fact and use appropriate caution. After FEMA's final approval, the District would like to borrow your copy of the TDN in order to finalize it.

If you have questions concerning this information, please call me at 602-506-4617.

Sincerely,

A handwritten signature in black ink that reads 'Frank Brown'.

Frank Edward Brown, P.E., CFM  
Senior Civil Engineer, Mitigation Planning & Technical Programs Branch,  
Floodplain Management and Services Division

C: Linda Mendenhall, FCDMC



# Flood Control District of Maricopa County

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Max Wilson, District 4  
Mary Rose Wilcox, District 5

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2801 West Durango Street  
Phoenix, Arizona 85009  
Phone: 602-506-1501  
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December 15, 2011

Charles Andrews, P.E.  
Senior Project Manager, Engineering Department  
City of Avondale  
11465 W. Civic Center Dr., Ste. 120  
Avondale, AZ 85323

**Subject: Floodplains for Agua Fria River Levees, Data request**

Dear Mr. Andrews:

The City of Avondale, via GIS Technician II Harley Maniago and my conversation with you, has requested the available floodplain information, recent aerial photographs and recent topographic mapping and survey data for the lower Agua Fria River. Enclosed is a DVD disk with the requested data in the appropriate format files. The District has received a signed Public Records request for this data. The data disk contains the data described in the attached File Inventory Report and the other two disks contain the survey data with survey report.

It is important to note that all four of the ZIP files on the disk are not the most current in our system for certain floodplain data, so please ignore them when loading this disk into the City's system. The correct files are being sent to Mr. Maniago via email. We will send you the final floodplain data once approved by FEMA and our GIS Division. At some future point in the FEMA approval process, FEMA will ask the District to provide a City of Avondale Community Acknowledgment Form.

If you have questions concerning this information, please call me at 602-506-4617.

Sincerely,

A handwritten signature in cursive script that reads "Frank Brown".

Frank Edward Brown, P.E., CFM  
Senior Civil Engineer, Mitigation Planning & Technical Programs Branch,  
Floodplain Management and Services Division

C: Linda Mendenhall, FCDMC  
Harley Maniago, GIS Technician II, City of Avondale



# Flood Control District of Maricopa County

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2801 West Durango Street  
Phoenix, Arizona 85009  
Phone: 602-506-1501  
Fax: 602-506-4601  
TT: 602-505-5897

August 31, 2011

Hasan Mushtaq, PhD, PE, CFM  
Phoenix City Hall, 5th Floor  
200 W. Washington St.  
Phoenix AZ 85003-1611

**Subject: Floodplains for Agua Fria River Levees, PAL ID#8-11-16-18**

Dear Dr. Mushtaq:

This letter is in response to our telephone conversation on August 30, 2011 agreeing to share with the City of Phoenix the preliminary updated floodplain information for the lower Agua Fria River. Having this data may enhance the City's floodplain management efforts. Enclosed is a CD disk with the preliminary (un-approved) version of the requested data as PDF format files.

Provided is an update to the Agua Fria River Floodplain from the Salt / Gila River to New River, which is the lower 10 miles of the Agua Fria River. The disk contains the Agua Fria River Floodplain Re-Delineation Study Technical Data Notebook with Appendices that contain the work maps and the annotated FIRM Panels, plus two Interior Drainage Reports (one for each river side) that present the Zone A and Zone AH floodplains adjacent to the river.

This update to the Agua Fria River floodplain and floodway presents new BFE's and ponded water surface elevations from the Salt / Gila River to New River, based on recent topographic mapping much newer than the current FCD95-05 study. About 6 miles of the 10 mile study reach were flown in January 2011.

This floodplain information is being processed by FEMA Region IX in support of the Agua Fria River levee certifications, therefore FEMA has not yet asked the District to provide a City of Avondale Community Acknowledgment Form. It is important that the City of Phoenix understand this information is pending FEMA review and could be revised by review comments. Everyone at the City of Phoenix obtaining or using this data should be made aware of this fact and use appropriate caution.

If you have questions concerning this information, please call me at 602-506-4617.

Sincerely,

A handwritten signature in black ink, appearing to read "F. Brown".

Frank Edward Brown, P.E., CFM  
Senior Civil Engineer, Mitigation Planning & Technical Programs Branch,  
Floodplain Management and Services Division

C: Linda Mendenhall, FCDMC



# Flood Control District of Maricopa County

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2801 West Durango Street  
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TT: 602-505-5897

August 29, 2011

Charles Andrews, P.E.  
Senior Project Manager, Engineering Department  
City of Avondale  
11465 W. Civic Center Dr., Ste. 120  
Avondale, AZ 85323

**Subject: Floodplains for Agua Fria River Levees, PAL ID#8-11-16-18.**

Dear Mr. Andrews:

This letter is in response to our meeting and agreement on August 4, 2011 to share with the City of Avondale the updated floodplain information for the lower Agua Fria River once it was submitted to FEMA on August 26<sup>th</sup>. Enclosed is a CD disk with the requested data as PDF format files.

Provided is an update to the Agua Fria River Floodplain from the Salt / Gila River to New River, which is the lower 10 miles of the Agua Fria River. The disk contains the Agua Fria River Floodplain Re-Delineation Technical Data Notebook with Appendices that contain the work maps and the annotated FIRM Panels, plus two Interior Drainage Reports (one for each river side) that present the Zone A and Zone AH floodplains adjacent to the river.

This update to the Agua Fria River floodplain and floodway presents new BFE's and ponded water surface elevations from the Salt / Gila River to New River, based on recent topographic mapping. Some of the recent mapping was flown in January 2011 for more than half of the study reach.

This floodplain information is being processed by FEMA Region IX in support of the Agua Fria River levee certifications, therefore FEMA has not yet asked the District to provide a City of Avondale Community Acknowledgment Form. It is important that you understand this information is pending FEMA review and could be revised by review comments. Everyone at the City obtaining or using this data should be made aware of this fact and use appropriate caution.

If you have questions concerning this information, please call me at 602-506-4617.

Sincerely,

Frank Edward Brown, P.E., CFM  
Senior Civil Engineer, Mitigation Planning & Technical Programs Branch,  
Floodplain Management and Services Division

C: Linda Mendenhall, FCDMC  
Charlie McClendon, City Manager, Wayne Janis, Floodplain Administrator and  
Sue McDermott, City Engineer, City of Avondale



# Flood Control District of Maricopa County

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Andrew Kunasek, District 3  
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Mary Rose Willcox, District 5

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2801 West Durango Street  
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August 25, 2011

Robert J. Bezek, CFM  
Regional Engineer  
U.S. Department of Homeland Security  
Mitigation Division, FEMA Region IX  
1111 Broadway, Suite 1200  
Oakland, CA 94607-4052

**Subject: Floodplain Delineations in support of Levee Certification Packages for Agua Fria River Levees, PAL ID#8-11-16-18**

Dear Mr. Bezek:

This letter is in response to the Provisionally Accredited Levee (PAL) agreements which the District, the City of Avondale and the City of Phoenix entered into with the Federal Emergency Management Agency in June 2009 for the Agua Fria River Levees, generally between the New River and the Salt / Gila River. The Levee Certification Reports for each of PAL ID#8, ID#11, ID#16, and ID #18 were submitted in June 2011.

Provided in this submittal is an update to the Agua Fria River Floodplain work maps from the Salt / Gila River to New River. As discussed with you, the District directed Stanley Consultants to correct some graphic presentation items on the new work maps, and added the Zone AH delineations prepared by WEST Consultants for the interior drainage analysis. The work maps also depict the floodplain delineation adjacent to PAL ID#11 prepared by JE Fuller. On August 4 we met with the City of Avondale to coordinate some floodplain issues for proper depiction of certain areas on the work maps.

Submitted are 1 hard copy Agua Fria River Floodplain Re-Delineation Technical Data Notebook, 2 hard copy Interior Drainage Reports (one for each river side), work maps and annotated FIRM Panels. As stated in past conversations and stated in a one page TDN addendum, the HEC-RAS models are unchanged and are the same as the June 2011 submittal. The enclosed disks contain PDF format files of the submitted data along with the HEC-RAS models previously submitted.

Shipped are one box with the reports and disks and one tube with the floodplain / floodway work maps. Please replace the previously submitted information with this update information. A minor update is made to the levee certification reports to document the revised reference report dates.

FEMA now has all applicable information to begin review of the Agua Fria River levees. We ask that FEMA agree with the District that these Agua Fria River Levees are in full compliance with 44CFR §65.10 to provide protection from flooding during from the 1 percent annual chance flood, and request that all four of these levees be moved from Provisionally Accredited to Accredited status on the FIRM Panels.

If you have questions concerning this submittal, please call me at 602-506-4617.

Sincerely,



Frank Edward Brown, P.E., CFM  
Senior Civil Engineer, Mitigation Planning & Technical Programs Branch,  
Floodplain Management and Services Division

Cc: Sarah Houghland, Michael Baker Corporation (1 CD/DVD disk for each report, and 1 roll of floodplain work maps)  
Brian Cosson, ADWR, NFIP Coordinator  
Jon T. Ahern, JE Fuller Hydrology & Geomorphology, Inc.  
Scott Buchanan, Stanley Consultants, Inc.  
Brian T. Wahlin, WEST Consultants, Inc.  
Charlie McClendon, City Manager, City of Avondale  
Wayne Janis, Floodplain Administrator, City of Avondale  
Sue McDermott, City Engineer, City of Avondale  
Charles Andrews, Senior Project Manager, Engineering Dept., City of Avondale  
David Cavazos, City Manager, City of Phoenix  
Hasan Mushtaq, Floodplain Administrator, City of Phoenix

FLOOD CONTROL DISTRICT RECEIVED	
JUL - 5 '11	
CH & GM	FINANCE
PIO	R.E.D.
ADMIN	O & M
FMS	P & PM
ENG	FILE
CONTRACTS	
ROUTING	

U.S Department of Homeland Security  
FEMA Region IX  
1111 Broadway, Suite 1200  
Oakland, CA 94607-4052



**FEMA**

July 1, 2011

Frank Brown, P.E., CFM  
Senior Civil Engineer  
Flood Control District Maricopa County  
2801 West Durango Street  
Phoenix, Arizona 85009

RE: Receipt of Code of Federal Regulations, Title 44, Section 65.10 Data Submission for Provisionally Accredited Levees - Levee IDs #8, 11, 16 and 18 – Agua Fria River Levees

Dear Mr. Brown:

This correspondence is to acknowledge receipt of your June 23, 2011, letter regarding the Code of Federal Regulations, Title 44, Section 65.10 (44 CFR 65.10) data submission for the Provisionally Accredited Levees along the Agua Fria River with identification numbers 8, 11, 16 and 18 in the City of Avondale, the City of Phoenix, and Maricopa County. The following information was submitted in support of certification for this levee:

1. A report prepared by West Consultants, Inc., "Agua Fria River FEMA Levee Certification Package for Levee ID #8."
2. A report prepared by JE Fuller Hydrology & Geomorphology, Inc., "Certification Report for Camelback Ranch Levee South (ID #11) – Camelback Road to 3600 feet south along the east bank of the Agua Fria River – Maricopa County, Arizona."
3. A report prepared by West Consultants, Inc., "Agua Fria River FEMA Levee Certification Package for Levee ID #16."
4. A report prepared by West Consultants, Inc., "Agua Fria River FEMA Levee Certification Package for Levee ID #18."

The information enclosed with the June 23, 2011, letter is under review. If additional data are required to complete this review, we will contact you. If you have any questions regarding this matter, please do not hesitate to contact me by telephone at (510) 627-7274 or by email at robert.bezek@dhs.gov. If you have any specific questions regarding the levee certification review please contact Sarah Houghland, from BakerAECOM, by telephone at (720) 514-1129, or by e-mail at sloughland@mbakercorp.com

Mr. Frank Brown  
July 1, 2011  
Page 2 of 2

Sincerely,



Robert J. Bezek, CFM  
Regional Engineer  
Mitigation Division

**Copies Furnished:**

Brian Cosson, AZ DWR, NFIP Coordinator  
Tony Freiman, AMEC Earth & Environmental, Inc.  
Steve Nowaczyk, Ninyo and Moore  
Jon T. Ahern, JE Fuller Hydrology & Geomorphology, Inc.  
Scott Buchanan, Stanley Consultants, Inc.  
Brian T. Wahlin, WEST Consultants, Inc.  
Charlie McClendon, City Manager, City of Avondale  
Sue McDermott, Floodplain Administrator, City of Avondale  
David Cavazos, City Manager, City of Phoenix  
Hasan Mushtaq, Floodplain Administrator, City of Phoenix



# Flood Control District of Maricopa County

**Board of Directors**  
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[www.fcd.maricopa.gov](http://www.fcd.maricopa.gov)

2801 West Durango Street  
Phoenix, Arizona 85009  
Phone: 602-506-1501  
Fax: 602-506-4601  
TT: 602-505-5897

June 23, 2011

Ed Curtis, P.E., CFM  
Senior Civil Engineer  
Risk Analysis Branch, FEMA Region IX  
U.S. Department of Homeland Security  
1111 Broadway, Suite 1200  
Oakland, CA 94607-4052

**Subject: Levee Certification Packages for Agua Fria River Levees, PAL ID#8-11-16-18**

Dear Mr. Curtis:

This letter is in response to the Provisionally Accredited Levee (PAL) agreements (attached) which Maricopa County, the City of Avondale and the City of Phoenix entered into with the Federal Emergency Management Agency in June 2009 for the Agua Fria River Levees, generally between the New River and the Salt / Gila River. The submittal package is separate Levee Certification Reports for each of PAL ID#8, ID#11, ID#16, and ID #18, dated June 2011.

In addition, we are providing an update to the Agua Fria River floodplain and floodway with new BFE's from the Salt / Gila River to New River, based on recent topographic mapping. The Agua Fria River Floodplain Re-Delineation Technical Data Notebook is being sent to you on disk (only), along with the HEC-RAS models. As recently agreed, Maricopa County will correct some graphic presentation items on the new work maps, add Zone AH delineations prepared by others for the new interior drainage analysis and submit a paper TDN with updated disks and updated work maps by July 18, 2011. The HEC-RAS models will be unchanged with this update.

You are receiving two boxes with the reports and disks and one tube with the floodplain / floodway work maps. As previously agreed, you are receiving the survey disks with sealed report scan without a paper copy of each survey report.

Page 2 of June 23, 2011 letter to Mr. Curtis

We ask that FEMA agree with Maricopa County that these Agua Fria River Levees are in full compliance with 44CFR §65.10 to provide protection from flooding during from the 1 percent annual chance flood, and request that all four of these levees be moved from Provisionally Accredited to Accredited status on the FIRM Panels.

If you have questions concerning this submittal, please call me at 602-506-4617.

Sincerely,



Frank Edward Brown, P.E., CFM  
Senior Civil Engineer, Mitigation Planning & Technical Programs Branch,  
Floodplain Management and Services Division

Cc: Sarah Houghland, Michael Baker Corporation (1 CD/DVD disk for each levee report, and 1 roll of floodplain work maps)  
Brian Cosson, AZ DWR, NFIP Coordinator  
Tony Freiman, AMEC Earth & Environmental, Inc.  
Steve Nowaczyk, Ninyo and Moore  
Jon T. Ahern, JE Fuller Hydrology & Geomorphology, Inc.  
Scott Buchanan, Stanley Consultants, Inc.  
Brian T. Wahlin, WEST Consultants, Inc.  
Charlie McClendon, City Manager, City of Avondale  
Wayne Janis, Floodplain Administrator, City of Avondale  
David Cavazos, City Manager, City of Phoenix  
Hasan Mushtaq, Floodplain Administrator, City of Phoenix

# Agua Fria River Floodplain Re-Delineation from Salt/Gila River to New River

FCD 2007C053 Assignment #3

## Technical Data Notebook

Prepared by:

**Stanley Consultants, Inc.**  
1661 E. Camelback Road, Ste. 400  
Phoenix, AZ 85016

In conjunction with:

**WEST Consultants, Inc.**  
8950 S. 52<sup>nd</sup> Street, Ste. 210  
Tempe, AZ 85284

Prepared for:

**Flood Control District of Maricopa County**  
2801 W. Durango Street  
Phoenix, AZ 85009



Expires 3-31-14

Submitted June 2011  
Revised August 2011

SCI Proj # 21205.03



Expires 9/30/13

# Revision to Agua Fria River Floodplain Re-Delineation from Salt/Gila River to New River Submitted June 2011 Revised August 2011

## FCD 2007C053 Assignment #3 Technical Data Notebook

The Agua Fria River Floodplain Re-Delineation from Salt/Gila River to New River TDN was submitted to FEMA in June, 2011. It is believed the TDN is currently under FEMA review, however, the FEMA Case Number is not known as of the date of this writing. Subsequent to the June submittal, new Zone AH floodplains were delineated in the vicinity of the Agua Fria River by WEST Consultants, Inc. in support of the Agua Fria levee certification efforts currently being conducted by the Flood Control District of Maricopa County (FCDMC) (Reference 10 & 11). The FCDMC requested that Stanley show these new Zone AH delineations on our work maps to document all of the delineations done in support of their levee certification effort.

This revised TDN includes new work maps showing the new Zone AH delineations no other modifications were made or necessary for the HEC-RAS model or technical analysis Stanley developed for the Agua Fria River that was submitted in June. The water surface profile and flow velocities for the Agua Fria River remain the same therefore unchanged from June.

The revisions to the previously submitted TDN include:

- WEST Consultants' professional seal and certification statement have been added to Stanley's sheets 5-9 where work by both Stanley Consultants and WEST Consultants appears.
- On work map sheet 3, the previous submittal did not recognize the effective Zone A delineation on the east side of the Agua Fria River between cross sections 0.780 and 1.540. The Zone A delineation is a result of a flow break out south of Broadway Road along the east side of the river recognized by FEMA. This study did not intend to change the Zone A delineation due to no significant changes recognized in the topography for the area and the design flow has not changed. Therefore, it is being proposed that the existing effective Zone A delineation remain unchanged.



Expires 3-31-14



Expires 9/30/13

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- Exhibit Maps



# 1.0 INTRODUCTION

## 1.1 Purpose of Study

The Agua Fria River is located in north-central Maricopa County in the western portion of the greater metro Phoenix area. Please refer to Figure 1 for location and vicinity. The specific scope of this project is to evaluate the flood hazards for the Agua Fria River from its confluence with the Gila / Salt River to approximately its confluence with New River. This project is in support of the Flood Control District of Maricopa County's (FCDMC) effort to re-certify existing FEMA levees along this reach of the Agua Fria River. The levee certification portion of this project is being done by WEST Consultants, Inc. (WEST Consultants) and JE Fuller Hydrology & Geomorphology (JE Fuller). Their reports have been submitted along with this report under separate cover.

This project consists of floodplain and floodway re-delineation of approximately 10 river miles of the Agua Fria River. The current effective delineation was presented in a Technical Data Notebook (TDN) to FEMA titled *Agua Fria River Floodplain Delineation Re-Study, Between the Gila River Confluence and the New Waddell Dam*, dated October 31, 1996 (FCD 95-05) (Reference 1).

This Technical Data Notebook presents the documentation necessary to re-delineate the floodplain for the Agua Fria River from the Gila / Salt River to New River including bridges at Buckeye Road, SPRR, Van Buren Street, Interstate-10, McDowell Road, Indian School Road and Camelback Road.

This TDN was first submitted to FEMA in June, 2011 and is believed to currently be under review, however, the FEMA Case Number is unknown as of the date of this writing. Subsequent to the June submittal, this TDN has been updated to include Zone AH floodplains in the vicinity of the Agua Fria River that have been recently mapped by another consultant in support of the Agua Fria levee certification efforts currently being conducted by the Flood Control District of Maricopa County (FCDMC).

The new Zone AH floodplains were delineated by WEST Consultants, Inc. and documented in their reports titled: *Agua Fria West Levee Interior Drainage Report: Levee ID #18*, WEST Consultants, Inc., FCD 2010C027 Assignment 5, August 2011 (Reference 10); and *Agua Fria East Levee Interior Drainage Report: Levee ID #8 and Levee ID #16*, WEST Consultants, Inc., FCD 2010C027 Assignment 5, August 2011 (Reference 11).

FCDMC requested that Stanley show the new Zone AH delineations on our work maps to document all of the delineations done in support of their levee certification effort. WEST Consultants' professional seal and certification statement have been added to Stanley's sheets 5-9 where work by both Stanley Consultants and WEST Consultants appears.

Another modification to the work maps occurs on sheet 3. The previous submittal did not recognize the effective Zone A delineation on the east side of the Agua Fria River between cross sections 0.780 and 1.540. The Zone A delineation is a result of a flow break out south of Broadway Road along the east side of the river recognized by FEMA.

This study did not intend to change the Zone A delineation due to no significant changes recognized in the topography for the area and the design flow has not changed. Therefore, it is being proposed that the existing effective Zone A delineation remain unchanged.

No modifications have been made to the HEC-RAS model Stanley developed for the Agua Fria River that was submitted in June. The water surface profile and flow velocities for the Agua Fria River are therefore unchanged from June.

## **1.2 Authority for Study**

Stanley Consultants, Inc. performed the hydraulic analyses and documentation for this study for the Flood Control District of Maricopa County (FCDMC) under Contract FCD 2007C053, Assignment #3. Regional hydrology for the project was supplied by FCDMC.

## **1.3 Location of Study**

The project area is located in north-central Maricopa County within the City of Phoenix, City of Avondale and Unincorporated Maricopa County. The project corridor is approximately 10 miles in length and begins at the Gila / Salt River confluence, which is approximately at the intersection of the extensions of Southern Avenue and Litchfield Road. It extends in a northeasterly direction to its confluence with New River at approximately Camelback Road and 115<sup>th</sup> Avenue. The project is located within Sections 2, 11, 14, 22, 23, 27, 28, 33, and 34 of Township 1 North, Range 1 West, Sections 18 and 19 of Township 2 North, Range 1 East, and Sections 13, 24, 25, 35, and 36 of Township 2 North, Range 1 West of the Gila & Salt River Base Line and Meridian. The project location and vicinity map is shown in Figure 1.

The study reach has various land uses including agriculture, gravel mining and undisturbed desert. Open pit gravel mining operations are present at the southern end in the overbank areas and at the northern end in both the overbank and main channel areas. The corridor is also crossed by several electrical transmission lines. There are several high voltage towers in the river bottom that are protected by soil cement islands. Soil cement levees are present along both banks for a large portion of the study area. There are also some non-engineered rip rap and soil cement levees present at the northern and southern end of the project protecting mining operations and agricultural operations.

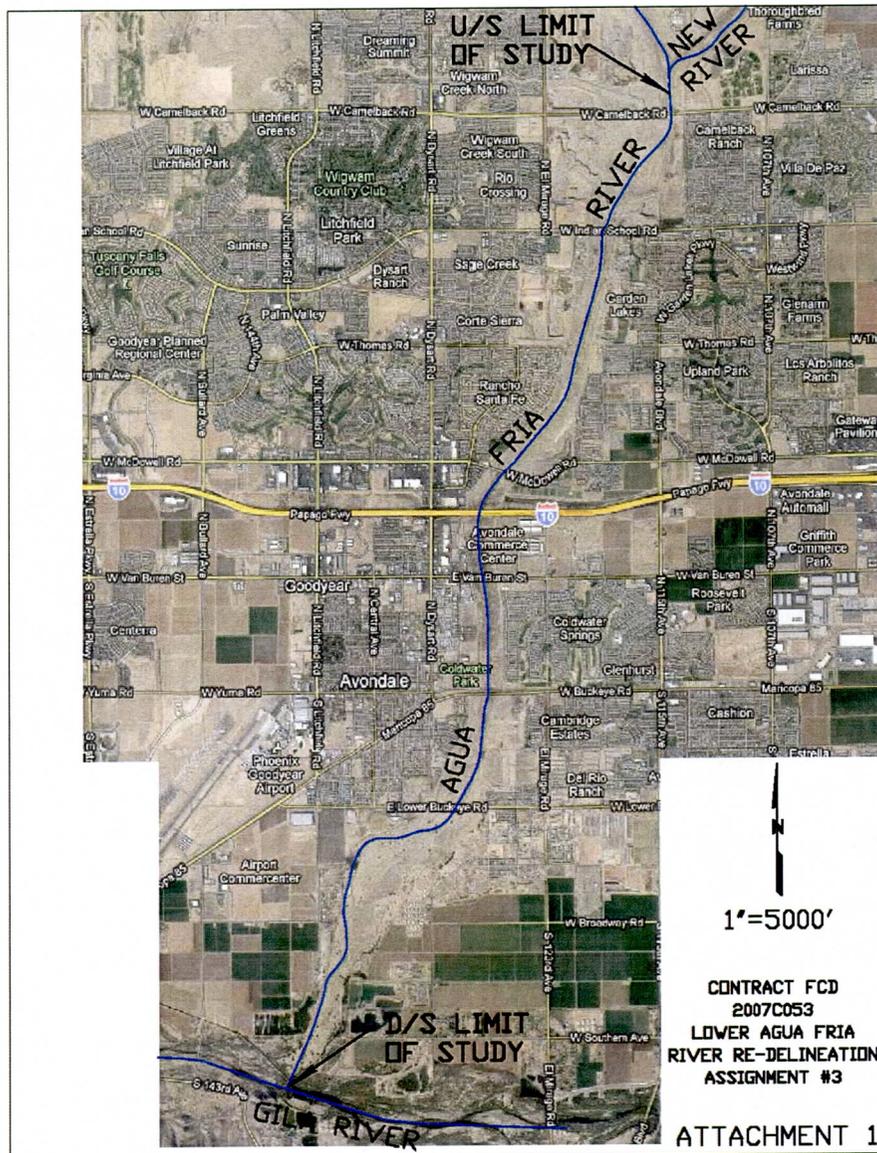


Figure 1, Project Location and Vicinity Map

#### 1.4 Summary of Methodology

Regional project hydrology was prepared using HEC-1 and provided by FCDMC. The existing-condition floodplain delineation study for the Agua Fria River from the Gila / Salt River to New Waddell Dam was previously prepared by Coe and Van Loo Consultants, Inc. using HEC-2. Aerial mapping of the project corridor was prepared by mapping firms using conventional photogrammetric methods. The new mapping was provided by FCDMC and was used to generate channel cross sections for input into HEC-RAS. Channel roughness coefficients (“n” values) were estimated using USGS methods. The U.S. Army Corps of Engineers’ HEC-RAS hydraulic backwater model was used for the

project with steady-subcritical flow being used to determine the new water surface elevations.

### **1.5 Coordination and Acknowledgements**

This project has been coordinated with the following consultants and agencies:

- WEST Consultants, Inc.
- JE Fuller Hydrology & Geomorphology
- Flood Control District of Maricopa County
- City of Avondale

### **1.6 Study Results**

Hydraulic analysis for the proposed re-delineation indicates some small areas of reduction of the 1%-annual-chance floodplain. Reduction of the floodplain allows for a revision of the delineation previously submitted by Coe & Van Loo. Hydraulic results are provided in Section 5.

## 2.0 FEMA FORMS AND ADWR ABSTRACTS

Revisions to NFIP Maps are located at the end of this document.

<b>2.1: Study Documentation Abstract for FEMA Submittals</b>		
2.1.1	Date Study Accepted	
2.1.2	Study Contractor Contact(s) Address  Phone Internal Reference Number	Stanley Consultants, Inc. Scott Buchanan, P.E. 1661 E. Camelback Rd, Suite 400 Phoenix, AZ 85016 602-333-2200 Stanley Project# 21205.03.00
2.1.3	FEMA Technical Review Contractor	Pending
2.1.4	FEMA Regional Reviewer/Phone	Pending
2.1.5	State Technical Reviewer/Phone	Pending
2.1.6	Local Technical Reviewer Phone	FCDMC Frank Brown, PE, CFM 602-506-1501
2.1.7	Reach Description	Agua Fria River: Gila/Salt River to New River (approx. 10 miles)

<b>2.2: Mapping Information</b>		
2.2.1	Mapping for Hydrologic Study	N/A
2.2.2	Mapping for Hydraulic Study Type/Source Scale/ Date /	Aerial Photography Jan 5th, 2011 / Wilson & Company

<b>2.3: Hydrology</b>		
2.3.1	Model or Method Used	FIS report FEMA approved flow rate
2.3.2	Storm Duration	24 hour
2.3.3	Hyetograph Type	N/A
2.3.4	Frequencies Determined	100
2.3.5	List of Gages Used	N/A
2.3.6	Rainfall Amounts and Reference	N/A
2.3.7	Unique Conditions and Problems	N/A
2.3.8	Coordination of Q's	N/A

<b>2.4: Hydraulics</b>		
2.4.1	Model or Method Used	HEC-RAS (USACE, Version 4.1.0)
2.4.2	Regime	Steady Subcritical Flow
2.4.3	Freq for which profiles were computed	100 year recurrence
2.4.4	Method of Floodway Calculation	N/A
2.4.5	Unique Conditions and Problems	None encountered

<b>2.5: Additional Study Information</b>		
Item	Description/Discussion	

## 3.0 MAPPING AND SURVEY INFORMATION

The survey and mapping utilized for this re-delineation is based on NAVD 1988 vertical datum. It consists of various field surveys and aerial mapping performed from 2008 to 2011 by consultants under direct contract with FCDMC. Wilson & Company performed surveys for both the aerial mapping and for structures directly for the FCDMC. The mapping is documented in the report, *Agua Fria River Mapping and Survey Report*, dated January, 2011 (FCD 2008C018) (Reference 3). This mapping and survey was provided to Stanley at the beginning of this re-delineation study. Supplemental field survey was performed by Stanley and by FCDMC survey staff.

### 3.1 Field Survey Information

As-built data was obtained for the project from Maricopa County and the City of Avondale. The vertical datum for these plans varied from NGVD29 to NAVD88.

During the completion of the project, it was determined that additional field survey was required for items that were missing from Wilson & Company's field survey. This additional work was completed by Stanley Consultants and FCDMC using GPS survey equipment. Stanley Consultants survey work included existing drainage features, roadways and levees. FCDMC field work consisted of topographic ground survey at the western edge of Cross Section 2.200 and on the eastern overbank between the SPRR and Buckeye Road at approximately Cross Section 4.220. Stanley Consultants and FCDMC survey data point lists and copies of survey field books are included in Appendix C.1 and C.2 of this report.

All survey work performed for this study was done in accordance with Section 3.0 of the Flood Control District of Maricopa County's Consultant Guidelines dated December 1, 2003. All survey work meets the Federal Emergency Management Agency (FEMA) minimum criteria as defined in *FEMA Procedure Memorandum No. 61 – Standards for Lidar and other High Quality Digital Topography*, September 2010.

### 3.2 Mapping

Aerial mapping was completed by Wilson & Company. The project was flown on January 5, 2011. Aerial photogrammetric accuracy was verified by field spot checks and office computations by the FEMA to their accuracy requirements. Because an existing hydrology model was used for this study, the aerial mapping was used solely for the hydraulic analysis. Figure 2 identifies panel points used for the aerial mapping.

Greg Thompson, R.L.S., with Wilson & Company was responsible for developing the mapping.

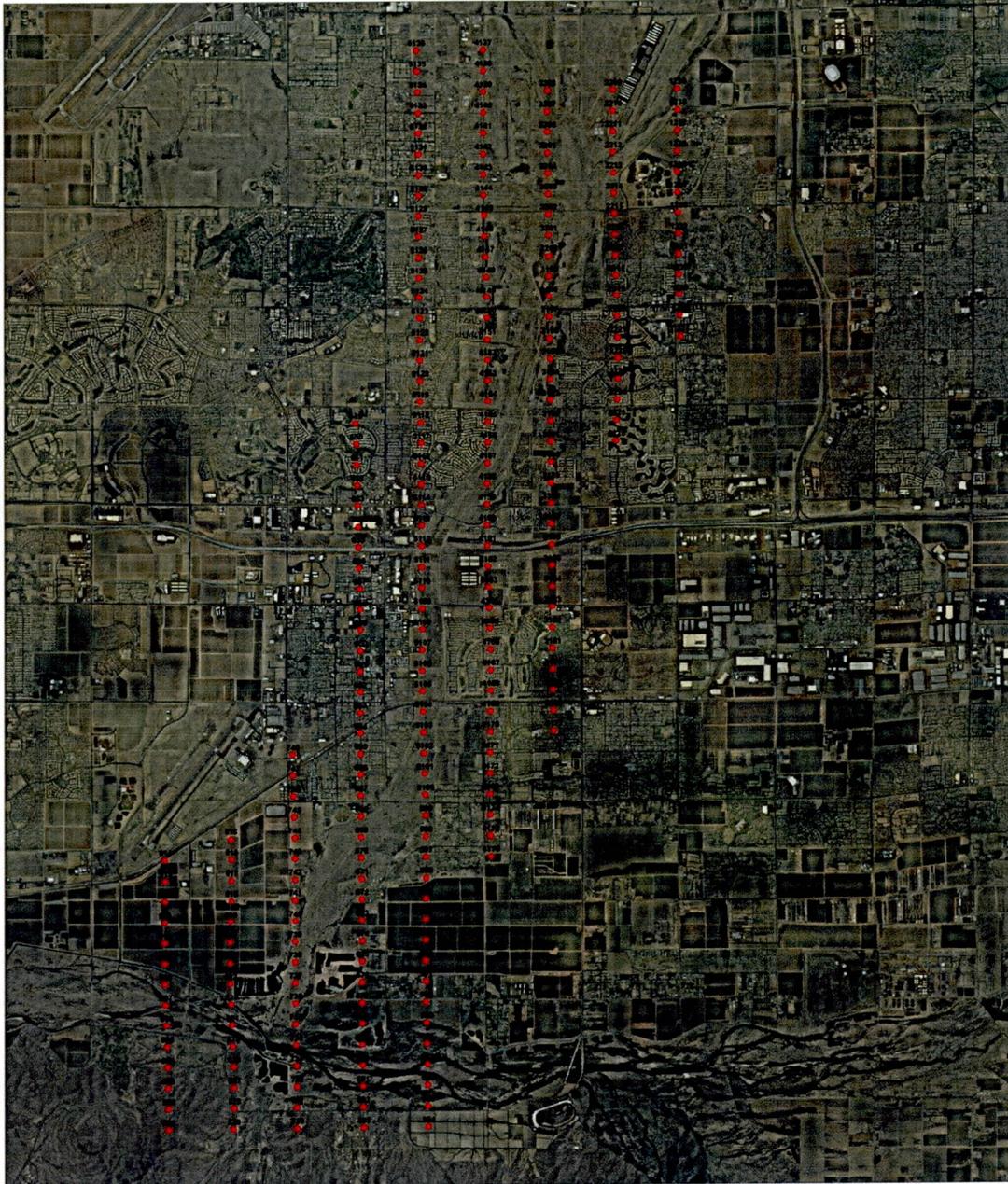
# Agua Fria

Date of Photography: 1/5/2011  
Altitude Above Sea Level: 4600'  
Scale 1:20000



0 5,000 10,000 20,000 Feet

**WILSON  
& COMPANY**  
ENGINEERS & ARCHITECTS



**Figure 2, Aerial Mapping Model Layout and Ground Panels Agua Fria River**

New two-foot contour mapping was developed from approximately RM 2.12 to RM 8.38 by Wilson & Company. Aerial photogrammetric imaging technology was used to develop the new topographic map.

FCDMC supplied two separate two-foot contour mapping data for the portions north and south of the January 2011 mapping. The area south of the January 2011 mapping is from the Gillespie Area Drainage Master Plan. That mapping was created July, 2008 and is documented in *Survey Report Manual for Gillespie Area Drainage Master Plan, Phase I Project Survey Report(ADMP)* by Sanborn Map Company, Inc. (FCD 2007C045) (Reference 4). The area north of the January 2011 mapping is from the *Mapping for Agua Fria Watercourse Master Plan* by Cooper Aerial Surveys, Co. (FCD 2007C038) (Reference 5).

In addition to the aerial mapping, Wilson & Company also completed field survey of existing drainage features, levees, roadways and bridge crossings. Wilson & Company provided survey points with descriptions and elevations and provided photographs of drainage structures and bridges.

Wilson & Company's field survey and aerial mapping documentation has been submitted under separate cover in the report titled, *Agua Fria River Mapping and Survey Report*, dated January, 2011 (FCD 2008C018) (Reference 3).

## **4.0 HYDROLOGY**

### **4.1 Method Description**

The 100-year discharges for the Agua Fria River were obtained from the report titled *Hydrologic Evaluation of Impacts of New Waddell Dam on Downstream Peak Discharges in the Agua Fria River* prepared by U.S. Army Corps of Engineers dated July 1995 (Reference 2). This is the same hydrology used to develop flood discharges in the existing effective floodplain study in 1996.

Hydrology for the new Zone "A" floodplain mapped at Cross Section 4.220 is from the Simons, Li & Associates, Inc. report, *Agua Fria River Flood Control Project Analysis of Side Drainage Requirements Buckeye Road to 1500 Feet South of Interstate 10*, dated February 5, 1985 (Reference 15).

### **4.2 Parameter Estimation**

See *Hydrologic Evaluation of Impacts of New Waddell Dam on Downstream Peak Discharges in the Agua Fria River* by the U.S. Army Corps of Engineers.

#### **4.2.1 Drainage Area Boundaries**

See *Hydrologic Evaluation of Impacts of New Waddell Dam on Downstream Peak Discharges in the Agua Fria River* by the U.S. Army Corps of Engineers.

#### **4.2.2 Watershed Work Maps**

See *Hydrologic Evaluation of Impacts of New Waddell Dam on Downstream Peak Discharges in the Agua Fria River* by the U.S. Army Corps of Engineers.

#### **4.2.3 Gage Data**

See *Hydrologic Evaluation of Impacts of New Waddell Dam on Downstream Peak Discharges in the Agua Fria River* by the U.S. Army Corps of Engineers.

#### **4.2.4 Statistical Parameters**

See *Hydrologic Evaluation of Impacts of New Waddell Dam on Downstream Peak Discharges in the Agua Fria River* by the U.S. Army Corps of Engineers.

#### **4.2.5 Precipitation**

See *Hydrologic Evaluation of Impacts of New Waddell Dam on Downstream Peak Discharges in the Agua Fria River* by the U.S. Army Corps of Engineers.

#### **4.2.6 Physical Parameters**

See *Hydrologic Evaluation of Impacts of New Waddell Dam on Downstream Peak Discharges in the Agua Fria River* by the U.S. Army Corps of Engineers.

### **4.3 Problems Encountered During the Study**

See *Hydrologic Evaluation of Impacts of New Waddell Dam on Downstream Peak Discharges in the Agua Fria River* by the U.S. Army Corps of Engineers.

#### **4.3.1 Special Problems and Solutions**

See *Hydrologic Evaluation of Impacts of New Waddell Dam on Downstream Peak Discharges in the Agua Fria River* by the U.S. Army Corps of Engineers.

#### **4.3.2 Modeling Warning and Error Messages**

See *Hydrologic Evaluation of Impacts of New Waddell Dam on Downstream Peak Discharges in the Agua Fria River* by the U.S. Army Corps of Engineers.

### **4.4 Calibration**

No calibration of the hydrology was conducted as part of this project. See *Hydrologic Evaluation of Impacts of New Waddell Dam on Downstream Peak Discharges in the Agua Fria River* by the U.S. Army Corps of Engineers.

### **4.5 Final Results**

#### **4.5.1 Hydrologic Analysis Results**

Discharges applied to the Agua Fria River range from 50,900 cfs to 54,400 cfs. See the Table 1.

River	Sta	Q (cfs)
Agua Fria River	10.046	54,400
Agua Fria River	5.780	52,000
Agua Fria River	4.250	50,900

**Table 1 – TDN Submittal Discharges**

#### **4.5.2 Verification of Results**

Verification of hydrologic results of the previously accepted hydrology was not performed as part of this study. This is the same hydrology used to develop flood discharges in the existing effective floodplain study in 1996.

## 5.0 HYDRAULICS

### 5.1 Method Description

The current effective model created by Coe & Van Loo in 1996 was a HEC-2 model. This model was provided by FCDMC and run by Stanley in HEC-2 to verify the same results were produced. The model was then imported into HEC-RAS and run to produce a duplicate effective model. This model produced very similar results in water surface elevations to the effective HEC-2 model with some minor variations. The variations are within FEMA acceptable limits. The effective HEC-2 model and the duplicate HEC-RAS effective model are included in Appendix E. A summary table of the differences in water surface elevations between the effective and duplicate effective model is also included in Appendix E.

The proposed modeling follows guidelines established in the *Guidelines and Specifications for Flood Hazard Mapping Partners*, by FEMA, April, 2003. The proposed re-delineation of the Agua Fria River was modeled using HEC-RAS (v. 4.1.0). A range of “n” values was used to reflect existing vegetation, channel and floodplain land use conditions throughout the project corridor. A detailed discussion of “n” value selection is provided in Section 5.3.1.

HEC-RAS output files for the proposed model are included in Appendix E.3. HEC-RAS input files are on the CD in the back of this document.

The hydraulic model upstream (north) of station 8.850 was obtained from another floodplain delineation study performed by JE Fuller as documented in the *Floodplain Delineation Study for a portion of the Agua Fria River, Agua Fria River From 1800 Feet Upstream (north) of Camelback Road Bridge to 1700 Feet Upstream (north) of Indian School Road Bridge, Maricopa County, Arizona*, June 2011 (FCD 2007C051 Assignment 10) (Reference 6). This was included in the study model to provide FCDMC with one continuous Agua Fria River hydraulic model from the confluence of the Agua Fria River with the Salt / Gila River to its confluence with New River.

### 5.2 Work Study Maps

Full-size work study maps at 200-scale and 400-scale depicting the effective condition floodplain delineation and proposed floodplain delineation are included at the end of the Appendices.

### 5.3 Parameter Estimation

This section covers the selection of Manning’s Roughness Coefficients (“n” values) and expansion and contraction coefficients.

### 5.3.1 Manning's Roughness Coefficients

Estimating values for Manning's "n" roughness coefficients for open channel hydraulics is somewhat subjective with a range of potential values and associated outcomes depending largely on the approach and experience of the individual. In order to reduce subjectivity and increase consistency, standard reference tables and other documentation are typically used to narrow the range of outcome.

The Agua Fria River re-study uses a combination of methodology and references to estimate project n-values. The two primary references are:

1. *Estimated Manning's Roughness Coefficients for Stream Channels and Flood Plains in Maricopa County, Arizona* by B.W. Thomsen and H.W. Hjalmarson, Prepared by the U.S. Geological Survey, April 1991.
2. *Drainage Design Manual for Maricopa County, Arizona – Volume II, Hydraulics* by Flood Control District of Maricopa County, January 28, 1996.

The methodology in the U.S.G.S. reference involves estimating a base "n" value that reflects the channel bed material then adds adjustment factors to account for surface irregularities, obstruction and vegetation.

Several tools were utilized in the development of the "n" values for this project. Those tools include:

1. Aerial photographs from 1993 and 2009.
2. Field reconnaissance for determining Manning's "n" values including photographic documentation.
3. Reference documents as listed in the reference section.
4. The current effective study for the Agua Fria River.

The study was divided into three reaches based upon hydraulic similarity.

Reach 1: Agua Fria and Gila/Salt River Confluence (Cross Section 0.000) to Cross Section 2.200

The first reach extends from the confluence of the Agua Fria River with the Gila / Salt River upstream (north) to Cross Section 2.20. In this reach, the floodplain is wide (almost 2 miles at its widest point) and has varying land uses that include open pit mining operations, farm land and open desert. The farm land includes high density crops of cotton and alfalfa. The effective study utilized a Manning's n value of 0.10 due to the density and shallow flow depths. It was decided that this value is still appropriate for this study. A Manning's n value of 0.045 was utilized for the sand and gravel mining activities and a range of 0.035 to 0.060 was utilized for the desert sections.

Reach 2: Cross Section 2.200 to Indian School Road (Cross Section 8.)

This reach consists mainly of a desert riverine environment contained by the levees along both banks. A Manning's "n" value ranging between 0.030 and 0.035 was utilized for this reach. This is consistent with what was used in the effective study. The "n" value from Cross Section 5.150 to Cross Section 6.160 was increased from the 0.030 that was used in the effective study to 0.035. This was done after field investigations and comparisons of the 1993 aerial photograph to the 2009 aerial photograph that showed an increase in overall vegetation for this section. It was also noted in the field that a small active low flow channel exists within this section. Flows in this reach originate from a channel along the northern side of I-10 that outfall into the Agua Fria River.

### Reach 3: Indian School Road (XS??) to XS?

The third section begins at Indian School Road and extends north to the northern project boundary. This section consists of a combination of desert riverine and open pit mining areas. There are also levees along both sides of the river but not for the entire reach. The "n" values for this section are consistent with the other sections with similar land use. An "n" value of 0.040 to 0.045 was utilized for the mining sections and a value of 0.035 was used for the main river portion.

As previously discussed, this portion of the hydraulic analysis was performed by JE Fuller and documented in *Floodplain Delineation Study for a portion of the Agua Fria River, Agua Fria River From 1800 Feet Upstream (north) of Camelback Road Bridge to 1700 Feet Upstream (north) of Indian School Road Bridge, Maricopa County, Arizona*, June 2011 (FCD 2007C051 Assignment 10) (Reference 6).

### **5.3.2 Expansion and Contraction Coefficients**

Expansion and contraction coefficients were established following the HEC-RAS "Hydraulic Reference Manual" guidance. Expansion and contraction coefficients of 0.30 and 0.10 (respectively) were used for all hydraulic model runs on all reaches with the exception of bridges where these coefficients were adjusted to 0.50 and 0.30 (respectively).

### **5.4 Cross Section Description**

A digital terrain model (DTM) was created for the re-delineation using INROADS. Cross sections were then cut using INROADS and imported into HEC-RAS. Hydraulic sections were generally cut at the locations utilized by the previous effective study. New cross sections were placed at certain locations in addition to the cross sections that were created at the existing effective locations. Cross sections were then added at bridges based on survey data from Wilson and Company.

## **5.5 Modeling Considerations**

### **5.5.1 Hydraulic Jump and Drop Analysis**

No hydraulic jumps were encountered and no special analysis was conducted.

### **5.5.2 Bridges and Culverts**

The design models for the project included the modeling of bridges at Buckeye Road, the SPRR, Van Buren Street, Interstate-10, McDowell Road, Indian School Road and Camelback Road.

Wilson and Company provided survey information for the bridges within the study. Their survey information included shots at the upstream and downstream ends of the piers and abutments for each bridge. The pier information included the size and shape of each pier. They also provided existing ground shots along the upstream and downstream sides of the bridges that were used to develop the cross sections for the bridges. Due to the spacing of the piers, debris loading was not considered.

### **5.5.3 Levees and Dikes**

The analysis of the engineered levees is contained within WEST Consultants *Agua Fria River FEMA Levee Certification Package for Levee ID #8*, *Agua Fria River FEMA Levee Certification Package for Levee ID #16*, and *Agua Fria River FEMA Levee Certification Package for Levee ID #18 (FCD 2010C027 Assignment 5)* (References 12, 13, and 14) and JE Fuller's report *Certification Report for Camelback Ranch Levee South (ID #11), Maricopa County, Arizona (FCD 2007C051 Assignment 10)* (Reference 7).

### **5.5.4 Islands and Flow Splits**

No significant islands or flow splits were present in the floodplain delineation modeling. However, as mentioned previously, there are soil cement islands surrounding high voltage electrical towers within the main channel conveyance area located at Cross Sections 4.260, 4.490, 4.720, 4.950, 5.450, 5.720, 5.970, 6.270, 7.030, 7.100, 7.210, 7.290, 7.400, 7.480, and 7.570. These features were not removed from the floodway or flood hazard zones.

### **5.5.5 Ineffective Flow Areas**

Ineffective flow areas are limited to the representation of areas of non-conveyance. This included horizontal / vertical boundaries where significant open pit mines are located. An ineffective boundary was placed at the pits at an elevation approximately equal to the adjacent ground elevations.

### **5.5.6 Supercritical Flow**

The floodplain delineation is based upon subcritical steady flow analysis. This was done for floodplain delineation purposes.

## **5.6 Floodway Modeling**

A floodway analysis was performed as part of this study. For the portions of the study bounded by the levees on both sides, no floodway was determined. Where the overbank areas are present and a floodway was defined in the effective study, the existing floodway limits were used when considered reasonable. Otherwise, encroachments were first placed at the effective study locations and then adjusted to produce a rise in water surface of less than 1 foot. Floodway encroachments were located to not create a negative surcharge or drop in water surface elevation between the floodplain and floodway elevations.

## **5.7 Problems Encountered During the Study**

### **5.7.1 Special Problems and Solutions**

There are several small existing condition topographic features that are present within the levee portion of the delineation that had minor effects on the delineation. The features include small mounds or rip rap placed against the levees and temporary earth ramps on the face of the levees.

Three small mounds of rip rap were found along the corridor. They are located at Cross Section 4.720 on the west side, just north of Cross Section 6.750 on the west side, and south of Cross Section 6.930 on the east side. The rip rap piles are on the face of the levee and minor in nature. Since the rip rap piles are small and not considered a permanent feature, it was decided that the delineation should ignore the alteration to the topography created by the rip rap piles.

A temporary earthen ramp is present along the levee face at Cross Section 5.840 on the east side of the river. The ramp was placed for construction to widen the I-10 bridge and will be removed after construction is complete. Since the ramp is temporary, the delineation does not recognize the modifications to the topography created by the ramp.

At Cross Section 4.220 on the east side of the river, there is a 42" culvert that outlets through the levee that is ungated. The culvert drains an area between the SPRR and Buckeye Road. The Simons, Li & Associates Inc. report, *Agua Fria River Flood Control Project Analysis of Side Drainage Requirements Buckeye Road to 1500 Feet South of Interstate 10* (Reference 15), documents the hydrology for this culvert. The report documents a total flow of 85 cfs. This produced a headwater based on inlet control of 4.94 feet. With an invert elevation of 957.65 the ponding elevation is 962.59. The 100-year water surface elevation in the Agua Fria River is approximately 961. Therefore, a Zone "A" floodplain was mapped at an approximate elevation of 962.6. It was decided that the floodplain should be mapped as a Zone "A" floodplain due to it being a non static ponding condition.

### **5.7.2 Modeling Warning and Error Messages**

Messages output from HEC-RAS within the project area include:

- Divided flow computed for this cross section.
- The velocity head has changed by more than 0.5 ft (0.15m). This may indicate the need for additional cross sections.
- The energy equation could not be balanced within the specified number of iterations. The program used critical depth for the water surface and continued on with the calculation.
- The conveyance ratio (upstream conveyance divided by downstream conveyance) is less than 0.7 or greater than 1.4.
- The energy loss was greater than 1.0 ft between the current and previous cross section. This may indicate the need for additional cross sections.
- During the standard step iterations, when the assumed water surface was set equal to critical depth, the calculated water surface came back below critical depth. This indicates that there is not a valid subcritical answer. The program defaulted to critical depth.
- Multiple critical depths were found at this location. The critical depth with the lowest, valid, water surface was used.
- Slope-Area method could not converge on a starting water surface elevation within the specified number of trials. The program used critical depth as the starting water surface.

These warning messages were reviewed and it was not considered necessary to modify the analysis to address remaining warning messages.

### **5.8 Calibration**

General calibration was not required for this project.

### **5.9 Final Results**

Plots of the final water surface profile for the proposed model are located in Appendix E.3 and limits of inundation for the base flood are located at the back of the appendices in the Work Map section.

#### **5.9.1 Hydraulic Analysis Results**

HEC-RAS output tables are located in Appendix E.3 for the proposed condition model.

### **5.9.2 Verification of Results**

The upstream water surface elevation at cross-section 10.046 (FEMA lettered Cross Section BD) was compared with those from the existing-condition LOMR model by Coe & Van Loo and found to match within the tolerance of 0.5 feet specified by FEMA.

## 6.0 EROSION AND SEDIMENT TRANSPORT

An erosion and sediment transport analysis was not done as part of the re-delineation. However, an analysis was done by WEST Consultants in support of the levee certification and can be referenced in the report *Agua Fria Levee Scour Analysis Report: Levee ID #8, Levee ID #16, and Levee ID #18*, by WEST Consultants (FCD 2010C027 Assignment 5) (Reference 8).

## 7.0 DRAFT FIS REPORT DATA

### 7.1 Summary of Discharges

The 100-year discharges for the Agua Fria River were obtained from the report titled *Hydrologic Evaluation of Impacts of New Waddell Dam on Downstream Peak Discharges in the Agua Fria River* prepared by U.S. Army Corps of Engineers dated July 1995.

River	Sta	Q (cfs)
Agua Fria River	10.046	54,400
Agua Fria River	5.780	52,000
Agua Fria River	4.250	50,900

Table 2 – TDN Submittal Discharges

### 7.2 Floodway Data

A floodway analysis was performed as part of this study. For the portions of the study bounded by the levees on both sides, no floodway was modeled. For the portions of the study where the overbank areas are present and a floodway was included in the effective study, the existing floodway limits were used as much as possible. Encroachments were first placed at the effective study locations and then adjusted to produce a rise in water surface of less than 1 foot. The placement of floodway encroachments was also located so as to not create a negative surcharge or drop in water surface elevation between the floodplain and floodway elevations.

### 7.3 Annotated Flood Insurance Rate Maps (FIRM)

Annotated Flood Insurance Rate Map Panels are located at the end of the appendices with the Exhibit Maps. Applicable FIRM panels for the Agua Fria River are:

- Map No. 04013C1615K
- Map No. 04013C1620H,
- Map No. 04013C2080J,
- Map No. 04013C2085G,
- Map No. 04013C2090H.

Existing-condition floodplain extents are shown with post-project floodplain extents overlain. This includes Zone AH delineations completed by WEST Consultants.

### 7.4 Flood Profiles

Flood profiles are located in Appendix E.3.



**Agua Fria River Floodplain Re-Delineation  
From Salt/Gila River to New River**

**APPENDIX A**  
References

## Data Collection Summary

1. *Agua Fria River Floodplain Delineation Re-Study, Between the Gila River Confluence and the New Waddell Dam*, Coe & Van Loo Consultants, Inc., October 31, 1996, prepared for the Flood Control District of Maricopa County under FCD 95-05.
2. *Hydrologic Evaluation of Impacts of New Waddell Dam on Downstream Peak Discharges in the Agua Fria River*, U.S. Army Corps of Engineers, July 1995.
3. *Agua Fria River Mapping and Survey Report*, Wilson & Company Engineers and Architects, January 2011, revised June 9, 2011 under FCD 2008C018.
4. *Gillespie Area Drainage Master Plan, Phase I Project Survey Report (ADMP)*, Sanborn Map Company, Inc. July 2008, prepared for the Flood Control District of Maricopa County under FCD 2007C045.
5. *Mapping for Agua Fria Watercourse Master Plan*, Cooper Aerial Surveys Co., March 2009, prepared for the Flood Control District of Maricopa County under FCD 2007C038.
6. *Floodplain Delineation Study for a portion of the Agua Fria River from 1800 feet upstream (north) of Camelback Road Bridge to 1700 feet upstream (north) of Indian School Road Bridge, Maricopa County, Arizona*, JE Fuller Hydrology & Geomorphology, FCD 2007C051 Assignment 10, June 2011.
7. *Certification Report for Camelback Ranch Levee South (ID#11), Maricopa County, Arizona*, JE Fuller Hydrology & Geomorphology, FCD 2007C051 Assignment 10, June 2011.
8. *Agua Fria Levee Scour Analysis Report: Levee ID #8, Levee ID #16, and Levee ID #18*, WEST Consultants, Inc., FCD 2010C027 Assignment 5, June 2011.
9. *Agua Fria Levee Freeboard Analysis Report: Levee ID #8, Levee ID #16, and Levee ID #18*, WEST Consultants, Inc., FCD 2010C027 Assignment 5, June 2011.
10. *Agua Fria West Levee Interior Drainage Report: Levee ID #18*, WEST Consultants, Inc., FCD 2010C027 Assignment 5, August 2011.
11. *Agua Fria East Levee Interior Drainage Report: Levee ID #8 and Levee ID #16*, WEST Consultants, Inc., FCD 2010C027 Assignment 5, August 2011.
12. *Agua Fria River FEMA Levee Certification Package for Levee ID #8*, WEST Consultants, Inc., FCD 2010C027 Assignment 5, June 2011.
13. *Agua Fria River FEMA Levee Certification Package for Levee ID #16*, WEST Consultants, Inc., FCD 2010C027 Assignment 5, June 2011.

14. *Agua Fria River FEMA Levee Certification Package for Levee ID #18*, WEST Consultants, Inc., FCD 2010C027 Assignment 5, June 2011.
15. *Agua Fria River Flood Control Project Analysis of Side Drainage Requirements Buckeye Road to 1500 Feet South of Interstate 10*, Simons, Li & Associates, February 5, 1985.
16. *Salt-Gila River Floodplain Delineation Restudy*, Michael Baker Jr., Inc., FCD 92-01, 1999.
17. *Camelback Ranch Levee North*, FCDMC & WEST Consultants, Inc., FCD 99-48 Assignment #1, August, 2000.
18. *Camelback Ranch Levee North – Flood Delineation Study (FDS)*, Kenney Aerial Mapping, Inc., FCD 99-48, 2000.

### **Referenced Documents**

Arizona Department of Water Resources, *State Standard 1-97, Requirements for Flood Study Technical Documentation*, November 1997.

Brunner, Gary W. and Goodell, Chris R, *HEC-RAS Hydraulic Reference Manual*, September 2002.

Federal Emergency Management Agency, *Guidelines and Specifications for Flood Hazard Mapping Partners*, April 2003.

Federal Emergency Management Agency, *Procedure Memorandum No. 61 – Standards for Lidar and other High Quality Digital Topography*, September 2010.

Flood Control District of Maricopa County, *Drainage Design Manual for Maricopa County, Arizona – Volume II, Hydraulics*, January 28, 1996.

Flood Control District of Maricopa County, *Drainage Design Manual for Maricopa County, Arizona – Volume I, Hydrology*, November 18, 2009, with revisions on June 14, 2010 and February 10, 2011.

Thomsen, B.W. and Hjalmeron, H.W., *Estimated Manning's Roughness Coefficients for Stream Channels and Flood Plains in Maricopa County, Arizona*, United States Geological Survey, April 1991.



**Agua Fria River Floodplain Re-Delineation  
From Salt/Gila River to New River**

**APPENDIX B**

**General Documentation and Correspondence**



# Agua Fria River Re-Delineation

FCDMC 2007C053 Assignment #3  
Gila/Salt River to Camelback Road

## KICKOFF MEETING AGENDA

**Date / Time:** March 22, 2011 / 4:00 pm  
**Location:** FCDMC

### 1. Welcome and introductions

### 2. Responsibilities and contacts

- ◆ Contact list (handout), corrections, additions
- ◆ Protocol
- ◆ Flood Control District
- ◆ Stanley Consultants
- ◆ Coordination activities with other consultants

### 3. Data collection, review and analysis

- ◆ Stanley provided – ADOT I-10 channel as-builts
- ◆ FCDMC items to provide - merged GIS topographic mapping, 2010 aerial photography, City of Avondale water reclamation plant draft CLOMR

### 4. Field Reconnaissance

- ◆ FCDMC visit
- ◆ Consultant visit

### 5. Project meetings

- ◆ Regular coordination – location(s), dates and times

### 6. Hydraulics / Delineation

- ◆ HEC-2 translation to HEC-RAS – equivalent effective model
- ◆ Starting conditions and sensitivity
- ◆ Tributary and local inflow
- ◆ Roadway crossings
- ◆ Without levee model
- ◆ HIS requirements

### 7. Schedule

- ◆ Preliminary schedule (handout)
- ◆ Milestones

### 8. Contract

- ◆ Notice to Proceed
- ◆ Invoicing

### 9. Miscellaneous / other items

- ◆ FCD Logo



# Agua Fria River Re-Delineation

FCDMC 2007C053 Assignment #3  
Gila/Salt River to Camelback Road

## KICKOFF MEETING MINUTES

Date / Time: March 22, 2011 / 4:00 pm  
Location: FCDMC

The following minutes are a summary of the preparer's interpretation of significant issues discussed. Please review and contact the writer of any necessary corrections or significant omissions.

### 1. Welcome and introductions

### 2. Responsibilities and contacts

- ◆ Protocol – Frank to be copied on all email communications and notified about any significant conversations between Stanley and other project team members.
- ◆ Frank will find out who the District's GIS contact will be for the project.

### 3. Data collection, review and analysis

- ◆ FCDMC will provide 2010 aerial photo when available. If 2010 photo is not available in next few days, FCDMC will provide 2009 aerial photo for Stanley to use until the 2010 photo is available. FCDMC will also provide 1993 aerial photo to aid in Manning's "n" value comparison.
- ◆ FCDMC will provide merged contours of Wilson & Company 2011 topography with 2009 2' topography. Frank will check on whether there is a merged surface model that corresponds to the merged contour file.
- ◆ FCDMC has placed a request to City of Avondale for the CLOMR for their water reclamation facility. The facility has levees protecting it but they are not FEMA 44 CFR 65.10 certifiable. Stanley's work needs to recognize the Avondale CLOMR and ideally will agree with the delineation presented therein.

### 4. Field Reconnaissance

- ◆ FCDMC provided Stanley with a brief summary of their field visit and will provide photos from field visit.
- ◆ FCDMC informed Stanley on protocol for field visit and that Carlos Rivera will need to be notified prior to field visit.
- ◆ Survey will only be required for two small culverts (one on each side of low flow crossing) at Lower Buckeye Road. 3-barrel box culvert outside of levees on west side will not need to be surveyed.

### 5. Project meetings

- ◆ Project progress meetings to begin 4/4/11 and be every two weeks. We will decide in advance if meeting in person is required. Tentatively, in-person April meetings would be held at Stanley Consultants.

### 6. Hydraulics / Delineation



# Agua Fria River Re-Delineation

FCDMC 2007C053 Assignment #3

Gila/Salt River to Camelback Road

- ◆ Corps levees were designed for SPF. Tim Murphy believes their design included 1 foot of freeboard.
- ◆ There is a gap in the Corps levees upstream of Indian School Road on the east side of the river where the floodplain limit will be natural ground.
- ◆ West Consultants is analyzing interior drainage for gated outlets into the Agua Fria on both sides of the river. They are not analyzing non-gated or channel outlets into the Agua Fria. Stanley will need to research the floodplains associated with the non-gated drainage and evaluate the impact (if any) of Agua Fria re-delineation on them to determine tie-in or upstream limits of the Agua Fria re-study.
- ◆ HEC-2 is on 1929 vertical datum. This delineation will be on 1988 datum. Frank / Tim will research and provide the method for determining the vertical tie between the two datums.
- ◆ FCDMC will provide preliminary County 2012 DFIRM panels, profiles, floodway data tables, and datum conversion information. FCDMC will also provide 2005 FIS study. Note: Subsequently, Stanley determined that they already have the 2005 FIS study.
- ◆ JE Fuller is doing their own HEC-RAS model for the Camelback Ranch levee between Indian School Road and Camelback Road. Stanley needs to talk to John Ahern regarding that and consider incorporating their work in the overall re-study if possible.
- ◆ Stanley will double check upstream limit of supplied topography and tell Frank if it needs to be expanded.
- ◆ FCDMC to provide 92-01 Salt/Gila River study.

## 7. Schedule

- ◆ Tony Freiman at AMEC needs final HEC-RAS model by May 2<sup>nd</sup>.
- ◆ Frank indicated that Stanley could provide the District the GIS submittal requirements after the TDN is submittal to FEMA. Tim suggested that we be careful to make sure that there is consistency and matching between our line work and GIS.

## 8. Contract

- ◆ Frank indicated that invoices could consist of one box for total billing and a word file or table that explains what was completed and an explanation of what will be done in the next month. Use approved rates for hours and expenses. A breakdown of tasks with percent complete would be helpful too.

## 9. Miscellaneous / Other Items

- ◆ Frank will provide the correct FCDMC logo to be used on project documents.



# **Agua Fria River Re-Delineation**

FCDMC 2007C053 Assignment #3  
Gila/Salt River to Camelback Road

## **COORDINATION MEETING AGENDA**

**Date / Time:** April 20, 2011 / 9:30 am

**Location:** Stanley Consultants

1. **Additional survey**
2. **Duplicate effective and effective models**
  - ◆
3. **JE Fuller hydraulics**
  - ◆ Indians School Road to Camelback Road
  - ◆
4. **Topography issues**
  - ◆ Cross-section 2.200
5. **Schedule**
  - ◆ Preliminary Hydraulic Model submittal
  - ◆
6. **Miscellaneous / other items**
  - ◆



# Agua Fria River Re-Delineation

FCDMC 2007C053 Assignment #3  
Gila/Salt River to Camelback Road

**Date / Time:** April 20, 2011 / 9:30 am

**Location:** Stanley Consultants

**Attendance:** Frank Brown – FCD, Joel McCarty and Scott Buchanan - Stanley

**The following minutes are a summary of the preparer's interpretation of significant issues discussed. Please review and contact the writer of any necessary corrections or significant omissions.**

Meeting minutes and list of Action Items resulting from April 20, 2011 AFR FDS (re-study) Coordination meeting at Stanley Consultants.

Note: Assignment to FCD generally refers to Frank Brown performing the action item. CBRLS refers to Camelback Ranch Levee South. WEST is WEST Consultants Inc.

1. (Stanley) coordinate getting the west-side levee survey north of Indian School Road to JEFuller. Stanley's final survey results for that levee expected on 27 April. (FCD) ask JEF to supply their RAS to Stanley along with their top of Camelback Ranch levee elevations for Stanley to incorporate in their RAS. Stanley believes that JEF has generally used the same or very similar cross section locations and alignment as in the CVL 95-05 delineation but has added a few new cross sections. (FCD) verify who is certifying the west side levee north of Indian School that Stanley is surveying. Frank B's understanding is that JEFuller certification only applies to east side levee between Indian School and Camelback. Also, confirm who is certifying levees north of Camelback -- soil cement levee on east side and riprap levee on west side (FCD). FCD later confirmed that WEST is certifying levees on both sides of AFR north of Camelback.
2. All submittals go to Frank B. directly, unless otherwise instructed in advance.
3. Send Stanley's Duplicate Effective RAS to team members, and copy Stanley on the email transmittal (FCD). This was later done by FCD.
4. Discuss if the previous CBRLS RAS review comment letters should be included in the TDN, and if so, only CBRLS or both reports. If yes, send a copy now to Stanley (FCD). It was later determined by FCD that Stanley does not need to include these review comments in their TDN so no copy to Stanley is needed.
5. Ask if the JEF levee certification report will include a separate LOMR request (FCD). It was later confirmed by FCD that JEF is preparing a separate LOMR. Stanley will only need to reference the JEF LOMR in our TDN.
6. Locate most recent topography on the west side of RM 2.200 and send to Stanley (FCD).



## **Agua Fria River Re-Delineation**

**FCDMC 2007C053 Assignment #3  
Gila/Salt River to Camelback Road**

7. At RM 2.200, obtain a few spot elevations along RAS section alignment up to high ground to compare to 95-05 study. It is desired to use the 95-05 topo to fill in a 300-foot wide data gap. Similar process will be done at I-10 Channel (Stanley).
8. Make final arrangements for RAS reviewer availability for dates listed below(FCD). Frank has subsequently done this.
9. Discuss the Zone AE at SPRR Ditch floodplain mapping responsibility with West Consultants at coordination meeting later same day (FCD). Frank subsequently confirmed that WEST is handling this Zone AE floodplain.
10. Locate the Coldwater Springs Ranch Final Drainage Report (FCD to check with City of Avondale and Stanley to check their sources if not at Avondale). Subsequently, it was determined that West would be responsible for the SPRR Ditch Floodplain. West called Stanley on Thursday 21apr because they are so far unsuccessful obtaining any (2003?) LOMR docs related to this floodplain. West has a request in to Avondale for the LOMR docs. Stanley has provided their original copy of the Coldwater Springs master drainage report from the late 1990's to West for pickup and copy. It was subsequently learned that WEST now was able to obtain, with help from FCD, the final drainage report for Coldwater Springs along with the LOMR for this Zone AE floodplain from CMX, the original design consultant.
11. Ask WEST to share with Stanley a spreadsheet containing top of levee elevations they have interpolated thru Wilson survey so Stanley can incorporate in their RAS (FCD).
12. Ask other team members the effect on their documentation if Stanley made minor updates to their final RAS model after May 2nd. FCD confirmed later that WEST would be okay with small changes in Stanley's HEC RAS model.
13. It should be acceptable to input WEST top of levee data points into Stanley's RAS model if not received by Stanley until after May 2, as this will only have minor affect on the WSEL and should not impact certification of freeboard.

### Detailed Schedule for April-Early May

- April 21 at noon, current draft proposed condition RAS model to be submitted to FCD for the sole purpose of reviewer familiarization and locating any critical issues that must be resolved (Stanley). Currently in Stanley draft proposed condition RAS, bridges are all modeled, "n" values reflect what was in CVL 95-05 model but Stanley is considering higher "n" value DS from I-10 and ineffective flow areas have been incorporated including sand and gravel pits.
- April 27 or earlier, submit to FCD the pre-Final RAS model for Review (Stanley).



## ***Agua Fria River Re-Delineation***

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- May 2 or earlier the Final RAS model with roll plot floodplain for distribution to team members for their use (Stanley).

### Remaining Discussion Items

1. Discuss if the floodway analysis will be ready on May 2, and if not ready, could refinements to the floodway model necessitate revisions to the Final floodplain model?



# Agua Fria River Re-Delineation

FCDMC 2007C053 Assignment #3  
Gila/Salt River to Camelback Road

## COORDINATION MEETING AGENDA

**Date / Time:** May 2, 2011 / 12 noon

**Location:** Stanley Consultants

1. Review meeting minutes / action items from 20apr coordination meeting.
2. Ninyo & Moore data collection report.
3. Status of Stanley field survey, survey info needed by West, infill survey @ RAS Section 2.20 and @ I-10 Channel.
4. Point and break line files from 95-05 topo for Stanley to use in the areas of missing topo (near RAS Section 2.20 west side and at ADOT I-10 channel).
5. Inclusion (or not) of Stanley survey points at grade control sills.
6. Beginning / ending points of RAS cross section lines, top of levee elevations at beginning / ending points, proposed elevations received from West 29apr, remaining points needed for soil cement levee west side AFR north of Indian School Rd per Stanley survey.
7. Certification (or not) of levees:
  - a. west side AFR north of Indian School – Fuller yes?;
  - b. east and west side AFR above Camelback - riprap levee on west side, soil cement levee on east – anyone?.
8. Status Fuller RAS Indian School-to-Camelback reach and incorporation of that RAS in Stanley's overall model.
9. Review FCD comments on Stanley draft RAS.
10. Discussion / conclusions re: two non-gated inflow points:
  - a. under Van Buren Bridge, west side;
  - b. between SPRR and Buckeye bridges, east side.
11. Status floodplain limits:
  - a. Stanley's draft limits within levee reach;
  - b. isolated riprap deposits and dirt ramps along inside of levee -vs- hydraulics and floodplain limits;
  - c. re: agenda item # 7 above;
  - d. within Salt / Gila floodplain and significance of the limit line that separates AFR from Salt / Gila;
  - e. at Avondale water reclamation (Gannett Fleming LOMR).



# Agua Fria River Re-Delineation

FCDMC 2007C053 Assignment #3  
Gila/Salt River to Camelback Road

**Date / Time:** May 2, 2011 / 12 noon

**Location:** Stanley Consultants

**Attendance:** Frank Brown – FCD, Joel McCarty and Scott Buchanan - Stanley

**The following minutes are a summary of the preparer's interpretation of significant issues discussed. Please review and contact the writer of any necessary corrections or significant omissions.**

Meeting minutes and list of Action Items resulting from May 2, 2011 AFR FDS (re-study) Coordination meeting at Stanley Consultants.

Note: Assignment to FCD generally refers to Frank Brown performing the action item. CBRLS refers to Camelback Ranch Levee South. WEST is WEST Consultants Inc.

1. Review meeting minutes / action items from 20apr coordination meeting.
  - Draft meeting notes were reviewed. Actions and resolution that took place subsequent to the 20apr meeting and subsequent to the draft notes have since been incorporated in those draft notes and the notes have been finalized.
2. Ninyo & Moore data collection report.
  - Frank brought a CD to the meeting with the Ninyo & Moore data on it. This was mostly geotechnical data or data that related to geotechnical investigations. The CD was newer than the Ninyo & Moore bibliography list which Frank had emailed the week prior to the 02may meeting so there were a few additional data items on the CD compared to the bibliography. Stanley downloaded the Ninyo & Moore CD right there during the meeting. Stanley will provide Frank with a signed release form. Stanley will review the data on the CD but the initial consensus was that it would mostly not be applicable to Stanley's tasks since the CD is mostly geotechnical in nature.
  - Subsequent to the 02may meeting, Joel McCarty provided the signed release to Frank.
3. Status of Stanley field survey, survey info needed by West, infill survey @ RAS Section 2.20 and @ I-10 Channel.
  - Most of the Stanley field work has been done but there are a few remaining items. Approximately 500 survey points have been collected to date. Joel / Scott will meet with Stanley's survey manager and field crew tomorrow morning (03may) to go over remaining tasks. The rest of the field work is scheduled for tomorrow as soon as the meeting concludes. Remaining work is mainly the upstream (outboard) end of the soil cement levee north of Indian School on the west side of AFR and some of the local inlets into the AFR. Action items were concluded subsequent to the 02may coordination meeting. The rest of the



# Agua Fria River Re-Delineation

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survey was completed on Tuesday 03may. Those items needed by WEST were provided to them by Stanley on Thursday 05may.

- Also, subsequent to the 02may meeting, Stanley sent the set of survey photos to Frank. Stanley will include the photos in the survey report, B&W in report, color .jpg's on CD. Frank will ask FCD survey department if they need to review what Stanley has done or perform any field verification. Stanley will complete a draft survey appendix and submit to Frank for review.
  - Also, subsequent to the 02may meeting, Stanley asked Frank what the source of the Mapping north of the Wilson mapping. We were not able to find this out from the metadata, FCD library or any of the data on the CD's provided by FCD at the onset of the study. Frank will find out.
  - Also, subsequent to the 02may meeting, Frank updated Stanley re: the additional mapping needed at section 2.20 and elsewhere. FCD GIS group is producing contours and surface at section 2.20 vicinity. Then they will do the area at the I-10 channel. Another area was added to the Stanley need list corresponding to the area outboard from the non-gated pipe outlet between SPRR and Buckeye Road. Frank will add that area to the need list. Stanley provided AFR water surface elevations to Frank rounded up to nearest foot at the I-10 channel and at the SPRR / Buckeye pipe so there was some target for the limit of topo needed.
4. Point and break line files from 95-05 topo for Stanley to use in the areas of missing topo (near RAS Section 2.20 west side and at ADOT I-10 channel).
- Frank will provide Stanley with the point and break line data from the 95-05 study to fill in at river mile 2.20 and at the ADOT I-10 channel and also for the area between the railroad and Buckeye Road corresponding to the existing un-gated pipe through the east soil cement levee. As a side note, FCD and WEST have determined a vertical survey tie between the 95-05 study (1929 datum) and the re-study (1988 datum). The equation is:  $NGVD1929 + 2.06 = NAVD1988$ . Or, going the other way,  $NAVD1988 - 2.06 = NGVD1929$
5. Inclusion (or not) of Stanley survey points at grade control sills.
- Frank to discuss this with FCD staff. Grade control sills were not specifically reflected in 95-05 study. There are four locations. There is some vertical scour relief on the downstream side of the two lower sills. The two upper sills are more or less at grade which, we believe, was the way they were all constructed initially. The scour at the lower two sills ranges from about 1 to 2 feet and is thought to have developed over time, perhaps due to the increased frequency of flow from the I-10 channel. WEST Consultants is performing scour analysis at all four sill locations as part of their levee certification. One question is whether Stanley should add hydraulic sections at the sill locations. If so, should there be a hydraulic section at the downstream crest of each sill and another section at the toe of the drop (where a drop is present)? That would place the cross sections very close together. WEST does not need such analysis to base their scour analysis on. Another question is whether these structures should be discussed in the special problems section of the TDN. And the last question was if hydraulic sections are reflected at sills, should that be done based on the Wilson aerial topo or based on Stanley field survey?



## Agua Fria River Re-Delineation

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6. Beginning / ending points of RAS cross section lines, top of levee elevations at beginning / ending points, proposed elevations received from West 29apr, remaining points needed for soil cement levee west side AFR north of Indian School Rd per Stanley survey.
  - WEST will provide Stanley with a shape file showing the location of the beginning / ending points that were used in their interpolation of the top of levee elevations they provided to Stanley earlier. This was subsequently provided to Stanley by WEST on Tuesday 03may. And Stanley incorporated the data in a draft HEC RAS update on Monday 09may.
  - Stanley made some minor interpretations in the horizontal locations of about half dozen points from the data that WEST provided. Stanley will prepare a brief summary of what adjustments were made and where and share back with Frank, WEST.
  
7. Certification (or not) of levees:
  - a. west side AFR north of Indian School – Fuller yes?;
  - b. east and west side AFR above Camelback - riprap levee on west side, soil cement levee on east – anyone?
    - Fuller is certifying the soil cement levee on the east side of AFR between Indian School and Camelback. WEST will certify all the other levees below Camelback Road. Nobody is certifying any levees north of Camelback Road.
  
8. Status Fuller RAS Indian School-to-Camelback reach and incorporation of that RAS in Stanley's overall model.
  - Fuller will be submitting their HEC RAS model to Frank by close of business on 04may. Frank will then forward this model to Stanley. There may not be much time for FCD staff to review this HEC RAS model before it is passed on. Also, Frank confirmed that Fuller will be addressing FEMA comments in the Indian School-to-Camelback reach, should there be any.
  - Subsequent to the 02may meeting, Frank provided the Fuller HEC RAS model to Stanley along with GIS files corresponding to items like river baseline. Stanley and WEST will need to go through a top of levee elevation / cross section end point determination process for the recently surveyed (by Stanley) soil cement levee just north of Indian School Road on the west side of AFR similar to what was recently done for the other levees.
  
9. Review FCD comments on Stanley draft RAS.
  - Frank confirmed that FCD (Steven Tucker) did review the entire model. Most of the review comments related to the reach above Indian School Road although this reach in Stanley's draft HEC RAS did not yet incorporate the Fuller HEC RAS (see agenda item No. 8). Tucker was generally in agreement with Stanley's draft HEC RAS in the levee reaches.
  
10. Discussion / conclusions re: two non-gated inflow points:
  - a. under Van Buren Bridge, west side;
  - b. between SPRR and Buckeye bridges, east side.
    - The outfall at Van Buren is thought to be from a closed storm drain system. This has since been confirmed by the Stanley survey crew. The outfall between



## Agua Fria River Re-Delineation

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SPRR and Buckeye is thought to be original to the levee construction and only drains a narrow, very local area between the railroad and Buckeye Road. That area is not currently a delineated FEMA floodplain. Frank will discuss that situation internally with FCD staff for direction on how to proceed. Stanley will look at the 95-05 topography in the area between SPRR and Buckeye (that Frank is providing) and see what the depth and limit of ponding would be from the AFR water surface profile.

### 11. Status floodplain limits:

- a. Stanley's draft limits within levee reach;
- b. isolated riprap deposits and dirt ramps along inside of levee -vs- hydraulics and floodplain limits;
- c. re: agenda item # 7 above;
- d. within Salt / Gila floodplain and significance of the limit line that separates AFR from Salt / Gila;
- e. at Avondale water reclamation (Gannett Fleming LOMR).
  - Re: a) and b), Frank will discuss the isolated riprap and dirt ramp question with FCD staff, whether they should be reflected as-is in the floodplain limit and whether these locations need to be documented or not.
  - Re: c), the soil cement levee just north of Indian School on the west side of AFR will be certified. Therefore, sand and gravel pits behind that levee to the west that are lower than the AFR flood profile will not be in the floodplain. JEF will be delineating the west limit of the floodplain between the north end of the levee and Camelback Road.
  - Re: d) and e), Frank will discuss this with other FCD staff on how to proceed. Stanley's preliminary HEC RAS agrees fairly well with the 95-05 profile but is as much as about 0.5 feet higher. This is likely due primarily to Stanley's model using 2009 topography / geometry. Other factors might include slight differences in "n" value, sand and gravel pit modeling and effective flow area, although Stanley HEC RAS attempts to replicate the 95-05 study as close as possible in those regards. The difference in water surface and topography results in a difference in mapped floodplain limit in the relatively flat overbank areas in the area of the AFR / Salt / Gila confluence. Stanley's floodplain limit is also slightly different than the limit proposed by Gannett Fleming for the Avondale water reclamation facility LOMR. This is due mainly to a difference in topography. The Gannett Fleming LOMR uses 95-05 topography and Stanley uses 2009 topography. The current floodplain limit below about AFR river mile 1.74 is a somewhat dynamic combination of AFR and Salt / Gila hydraulics, topography and starting condition / concurrence of flow. Scott and Joel suggested that the re-study retain the complete Stanley revised HEC RAS model starting at downstream AFR cross section 0.32 to document starting conditions. Then, identify an AFR river mile (tentatively HEC RAS section 1.83) where the Stanley and 95-05 profiles are in good agreement. Then, use the water surface from the 95-05 study at that river mile as the known starting water surface. We would leave the existing approved floodplain limit in the AFR / Salt / Gila confluence area as-is below that river mile and re-delineate the AFR floodplain limit above that river mile.
  - Subsequent to the 02may meeting, Frank stated that FCD has initiated acquiring elevation certificates for the properties along the south side of Broadway Road



## ***Agua Fria River Re-Delineation***

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west of AFR to see how these elevations relate to Stanley's draft AFR water surface and delineation.



# Agua Fria River Re-Delineation

FCDMC 2007C053 Assignment #3  
Gila/Salt River to Camelback Road

## COORDINATION MEETING AGENDA

**Date / Time:** May 17, 2011 / 8:30a

**Location:** Stanley Consultants

1. Review meeting minutes / action items from 02may coordination meeting.
2. JEFuller floodplain and RAS – Indian School Road to Camelback Road:
  - a. assumed known starting water surface;
  - b. agreement of water surface profiles between JEF and Stanley
  - c. coordination between JEF, WEST and Stanley re: top of levee elevations and beginning / ending cross section points for soil cement levee north of Indian School on west side AFR that Stanley recently surveyed;
  - d. brief notes of explanation in RAS geometry file re: ineffective flow areas and blocked obstruction;
  - e. agreement between water surface profile, contours and floodplain limit;
  - f. inclusion of existing sand and gravel pit within floodplain limit on west side AFR just downstream of Camelback Rd.
  - g. slight difference in horizontal location between JEF upstream cross section and current effective cross section;
  - h. agreement at upstream tie-in between JEF, Stanley and existing effective.
3. Status floodplain limits:
  - a. within Salt / Gila floodplain and significance of the limit line that separates AFR from Salt / Gila;
  - b. status floodplain limit west side AFR just south of Broadway Road, elevation certificates;
  - c. floodplain limit at Avondale water reclamation (Gannett Fleming LOMR).



# Agua Fria River Re-Delineation

FCDMC 2007C053 Assignment #3  
Gila/Salt River to Camelback Road

## COORDINATION MEETING NOTES

**Date / Time:** May 17, 2011 / 8:30a

**Location:** Stanley Consultants

**Attendance:** Frank Brown – FCD, Joel McCarty and Scott Buchanan - Stanley

**The following minutes are a summary of the preparer's interpretation of significant issues discussed. Please review and contact the writer of any necessary corrections or significant omissions.**

1. Review meeting minutes / action items from 02may coordination meeting.
  - Draft meeting notes were reviewed. Actions and resolution that took place subsequent to the 02may meeting and subsequent to the draft notes have since been incorporated in those draft notes and the notes have been finalized.
2. JEFuller floodplain and RAS – Indian School Road to Camelback Road:
  - a. assumed known starting water surface;
    - JEF model used a starting WSE equal to effective study modified for the datum at C/S 8.850. Stanley model produced a WSE approximately 0.7' higher at that C/S.
  - b. agreement of water surface profiles between JEF and Stanley
    - JEF will adjust their starting WSE to what Stanley's value is.
  - c. coordination between JEF, WEST and Stanley re: top of levee elevations and beginning / ending cross section points for soil cement levee north of Indian School on west side AFR that Stanley recently surveyed;
    - JEF model was first believed to be based on survey data; however, after speaking with JEF they said their model was based on the same aerial topography that the Stanley model uses. Stanley does not need to coordinate top of levee elevation with JEF's portion of the model. JEF's model will be inserted into the Stanley model. Stanley supplied WEST with the Stanley survey information for the levee along the west side north of Indian School Road. WEST used this information to interpolate top of levee elevations and shared this information with Stanley to be incorporated into the HEC-RAS model.
  - d. brief notes of explanation in RAS geometry file re: ineffective flow areas and blocked obstruction;
    - JEF will place notes in their portion of the HEC-RAS model.
  - e. agreement between water surface profile, contours and floodplain limit;
    - JEF will update their delineation and profile based on the Stanley's starting WSE.
  - f. inclusion of existing sand and gravel pit within floodplain limit on west side AFR just downstream of Camelback Rd. JEF will do a floodway analysis within their section, too.
    - JEF said the sand and gravel pit is a result of a low point where a haul road enters the area. JEF's floodplain for this pit is a ponding area with a single BFE.
  - g. slight difference in horizontal location between JEF upstream cross section and current effective cross section;
    - JEF will adjust their cross-sections that are off slightly horizontally. They will also adjust their cross-section ID's based on Stanley's river miles.
  - h. agreement at upstream tie-in between JEF, Stanley and existing effective.



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- The tie-in will be kept where JEF is currently showing it (C/S 10.133) which is one FEMA cross-section north of what was originally the study target cross-section. The JEF location is within 0.04' of the effective model elevation.
3. Status floodplain limits:
- a. within Salt / Gila floodplain and significance of the limit line that separates AFR from Salt / Gila;
  - b. status floodplain limit west side AFR just south of Broadway Road, elevation certificates;
    - Frank asked Stanley to perform some sensitivity analysis involving Manning "n" values utilized for the agriculture areas and see what impact that might have on the floodplain limit along the west side of the AFR south of Broadway Road. Stanley has subsequently done this and found there is very little impact to the water surface profile and floodplain limit. Therefore, the Manning "n" values will remain essentially the same as what was used in the 95-05 study.
  - c. floodplain limit at Avondale water reclamation (Gannett Fleming LOMR).
    - Subsequent to the coordination meeting, Frank verified that the Avondale water reclamation LOMR has already been submitted to FEMA.
    - Construction of the Avondale water reclamation plant expansion was in progress when the 2009 topo was flown. The 2009 topo is what Stanley is using for the re-delineation. The floodplain limit for the water reclamation plant area would be more accurately depicted by the Avondale LOMR because it uses as-builts while Stanley's topo depicts a partially constructed condition. Stanley cannot reflect the same floodplain limit as the Avondale LOMR if Stanley uses the 2009 topo. For these reasons and because the Avondale LOMR has already been submitted, it was subsequently decided that Stanley's delineation will defer to the Avondale LOMR in this specific area. Stanley's delineation ties in well to the 95-05 limits just above and just below the Avondale water reclamation plant. Between these tie-in points, Stanley's delineation will simply defer to the Avondale LOMR and give the FEMA case number for that pending review.

Other issues discussed during the meeting not covered in the agenda outline:

- Frank was going to check with Joe Wagner at the District to see when the additional topography that Stanley needs at C/S 2.20 and between Buckeye Road and the SPRR will be ready. It was decided that the floodplain at the I-10 channel on the eastern side of the AFR will not be re-delineated as part of this study. The new delineation produced a WSE within 0.20' of the effective study. Since there is no new topo created subsequent to the 95-05 effective study, re-delineating the floodplain would not produce any different results. Stanley will simply apply a "limit of study" at this location.
- All AFR re-delineation work will be submitted together to the California Region 9 office in Los Angeles.
- Frank was going to find out the source of the topography utilized in the new delineation at the north end of the project.



# Agua Fria River Re-Delineation

FCDMC 2007C053 Assignment #3  
Gila/Salt River to Camelback Road

## COORDINATION MEETING AGENDA

**Date / Time:** June 1, 2011 / 12:30p

**Location:** Telephone conference call – Frank Brown, FCDMC and Joel McCarty / Scott Buchanan, Stanley

1. Review meeting minutes / action items from 17may coordination meeting.
2. Floodplain topics:
  - a. Status floodplain limit west side AFR just south of Broadway Road, Stanley modification
  - b. FEMA case # for Avondale water reclamation plant LOMR
  - c. JEFuller floodplain modifications / floodway creation status
  - d. Topo needed for SPRR / Buckeye Road and RM 2.20
  - e. Method for handling small riprap piles / temporary earth ramps in levee area (special problems discussion?)
  - f. BFE's for cross sections common to AFR and Salt / Gila in confluence area
3. TDN topics:
  - a. WEST documentation of Van Buren storm drain closed system outfall to AFR
  - b. Complete Wilson & Company survey report for TDN appendix
  - c. Titles of WEST and JE Fuller reports for reference in TDN
  - d. Reference information for topo used at north end of study
  - e. Example format for data collection report
  - f. Status Stanley draft TDN and target submittal date
  - g. Ed Curtis, Region IX engineer assigned to Arizona, replaced by Robert Bezek



# Agua Fria River Re-Delineation

FCDMC 2007C053 Assignment #3

Gila/Salt River to Camelback Road

## COORDINATION MEETING NOTES

Date / Time: June 1, 2011 / 12:30p

Location: Telephone Conference Call

Attendance: Frank Brown – FCD, Joel McCarty and Scott Buchanan - Stanley

**The following minutes are a summary of the preparer's interpretation of significant issues discussed. Please review and contact the writer of any necessary corrections or significant omissions.**

1. Review meeting minutes / action items from 17may coordination meeting.
  - This was just a brief discussion and confirmation that the 17may notes are concluded as part of the project record now. Stanley had prepared the meeting notes covering the 17may coordination meeting in the week following that meeting. It incorporated follow-up and conclusions regarding some of the agenda items and also incorporated some of the discussion and decisions that originated from a follow-up meeting held at FCD on 23may.
2. Floodplain topics:
  - a. Status floodplain limit west side AFR just south of Broadway Road, Stanley modification
    - Stanley had made small adjustments to cross section alignment in this area per suggestions from the 23may meeting and illustrated this on an exhibit along with the resulting floodplain limit, which also changed slightly. The exhibit was emailed to FCD on 25may. FCD is in agreement with these adjustments. Stanley will incorporate them in the final documentation.
  - b. FEMA case # for Avondale water reclamation plant LOMR
    - Frank had sent this in an email on 18may. The Avondale Reclamation Plant LOMR was submitted on April 8, 2011. The FEMA case # is 11-09-2270P.
  - c. JEFuller status of floodplain modifications / floodway run, limit
    - Frank will call JEF to inquire about status. Latest word at time of meeting was this should be completed by Tuesday 31may. As of this writing (04jun) the revisions were not yet available.
  - d. Topo needed for SPRR / Buckeye Road and RM 2.20
    - Frank relayed that the creation of mapping from the 95-05 point and break line files that FCD staff was working on has hit a snag and the new surface and contours were not matching well with the 95-05 mapping. FCD has decided instead to send their survey crew out to these two locations and just pick up the points needed to create the surface and contours. The survey was to have been done on Thursday 02jun. Frank tried calling Joe Wagner to confirm whether survey would include an invert shot on the inlet end of the existing un-gated pipe (@ back side of levee) located between the SPRR and Buckeye Road. He was not able to reach Mr. Wagner. Frank will follow-up with Mr. Wagner on Monday 06jun to find out status of survey / mapping. When complete, this mapping will be provided to Stanley and should just drop into place and match existing mapping / contours. When complete, FCD's survey data will be provided to Stanley as a stand-alone sealed data section that Stanley will then incorporate in their TDN survey appendix.



# Agua Fria River Re-Delineation

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- e. Method for handling small riprap piles / temporary earth ramps in levee area (special problems discussion?)
    - These features are reflected in the 2011 mapping and Stanley's draft floodplain limits reflect them as existing and permanent topographic surfaces. FCD and Stanley decided that is the way they will be depicted in the final floodplain limit. These are minor local anomalies in the floodplain geometry and will not have any significant affect on hydraulics, flood profile or levee certification. It is therefore not necessary to cut new cross sections where they are located. FCD and Stanley do not consider these locations to have any special problem status. They will just be mentioned in the approach section of the TDN.
  - f. BFE's for cross sections common to AFR and Salt / Gila in confluence area
    - BFE lines in the vicinity of existing effective cross sections A thru D will have some hydraulic commonality between the AFR and the Salt / Gila. FCD and Stanley agreed that Stanley's documentation will be limited to the AFR and it will be up to FEMA to determine how the AFR profile will be blended with the Salt / Gila profile and how that would be exhibited as far as the BFE's common to both.
3. TDN topics:
- a. WEST documentation of Van Buren storm drain closed system outfall to AFR
    - This was just a brief conclusion discussion that WEST, based on an email from Brian Wahlin dated 18may, would handle the documentation for this storm drain. It is a closed system with inlets about 8ft higher than the AFR flood profile. Per Brian's email: "I talked to other people at WEST and the consensus is that the un-gated culvert at Van Buren will not be an issue since the inlet is 8 feet above the 100-year WSE. We will address this structure in our report".
  - b. Complete Wilson & Company survey report for TDN appendix
    - Wilson is updating their survey report with some clarifications of their survey points pursuant to questions that arose when Stanley was transforming the originally supplied Wilson survey data to bridge geometry earlier in the Stanley re-delineation process. That update will be provided to Stanley and Stanley will reference it. Frank will see to it that there is a single overall report / cover sheet that incorporates all of the various Wilson report sections that Stanley can reference.
  - c. Titles of WEST and JEFuller reports for reference in TDN
    - Frank will request final titles from WEST and from Fuller. This has since been accomplished and the report titles have been provided.
  - d. Reference information for topo used at north end of study
    - Frank will provide this.
  - e. Example format for data collection report
    - Frank will provide this.
  - f. Status Stanley draft TDN and target submittal date
    - Stanley will submit a draft of the TDN to Frank for review by Tuesday 07jun. Frank will review and provide comments back to Stanley by Tuesday 14jun. Stanley will address the review comments, make revisions and resubmit the completed TDN back to Frank by Monday 20jun.
  - g. Ed Curtis, Region IX engineer assigned to Arizona, replaced by Robert Bezek
    - Frank has a coordination meeting scheduled with Ed Curtis. It is hoped that Robert Bezek will attend that meeting and that he can be brought up to speed with all of the various AFR floodplain delineation and levee certification activities.

**CONTACT LIST**

**AGUA FRIA RIVER FLOODPLAIN RE-DELINEATION STUDY  
FCD ON-CALL CONTRACT NO. 2007C053  
ASSIGNMENT NO. 3**

<b>ORGANIZATION</b>	<b>NAME</b>	<b>PHONE / FAX</b>	<b>ADDRESS / E-MAIL</b>
<b>FLOOD CONTROL DISTRICT OF MARICOPA COUNTY (FCDMC)</b>			
Flood Control District of Maricopa County	<b>Brewer, Mark</b> GIS Analyst	P: 602-506-2953 F: 602-506-4601	2801 West Durango Street, Phoenix, AZ 85009 <b>mrb@mail.maricopa.gov</b>
Flood Control District of Maricopa County	<b>Brown, Frank, P.E., CFM</b> Senior Civil Engineer, Floodplain Mgmt and Services Div	P: 602-506-4617 F: 602-506-4601	2801 West Durango Street, Phoenix, AZ 85009 <b>frankbrown@mail.maricopa.gov</b>
Flood Control District of Maricopa County	<b>Gross, Kathryn</b> Hydrologist	P: 602-506-4837 F: 602-506-4601	2801 West Durango Street, Phoenix, AZ 85009 <b>kag@mail.maricopa.gov</b>
Flood Control District of Maricopa County	<b>Murphy, Tim, P.E., CFM</b> Mitigation & Technical Programs Mgr. Floodplain Mgmt. & Services Division	P: 602-506-4605 F: 602-506-4601	2801 West Durango Street, Phoenix, AZ 85009 <b>tmm@mail.maricopa.gov</b>
Flood Control District of Maricopa County	<b>Nangare, Mandar</b>	P: 602-506-1037 F: 602-506-4601	2801 West Durango Street, Phoenix, AZ 85009 <b>mandarnangare@mail.maricopa.gov</b>
Flood Control District of Maricopa County	<b>Regester, Cathy, P.E., CFM</b> Senior Hydrologist	P: 602-506-4001 F: 602-506-7346	2801 West Durango Street, Phoenix, AZ 85009 <b>cwr@mail.maricopa.gov</b>
Flood Control District of Maricopa County	<b>Sertich, Kelli</b>	P: 602-506-0867 F: 602-506-4601	2801 West Durango Street, Phoenix, AZ 85009 <b>kas@mail.maricopa.gov</b>
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Flood Control District of Maricopa County	<b>Thomas, Lynn</b> Floodplain Management Branch Manager	P: 602-506-4779 F: 602-506-4601	2801 West Durango Street Phoenix, AZ 85009 <b>lmt@mail.maricopa.gov</b>
Flood Control District of Maricopa County	<b>Tucker, Steven, P.E.</b> Senior Civil Engineer Hydrology & Hydraulics Branch, Engineering Div	P: 602-506-4872 F: 602-506-4601	2801 West Durango Street Phoenix, AZ 85009 <b>slt@mail.maricopa.gov</b>
Flood Control District of Maricopa County	<b>Wagner, Joe</b> CADD Technician, Engineering Division	P: 602-506-2203 F: 602-506-4601	2801 West Durango Street Phoenix, AZ 85009 <b>josephwagner@mail.maricopa.gov</b>
<b>STANLEY CONSULTANTS</b>			
Stanley Consultants, Inc.	<b>Buchanan, Scott P.E., CFM</b> Project Manager	P: 602-333-2360 F: 602-333-2333 C: 602-292-2478	1661 East Camelback Road, Suite 400, Phoenix, AZ 85016 <b>buchananscott@stanleygroup.com</b>

**CONTACT LIST**

**AGUA FRIA RIVER FLOODPLAIN RE-DELINEATION STUDY  
 FCD ON-CALL CONTRACT NO. 2007C053  
 ASSIGNMENT NO. 3**

<b>ORGANIZATION</b>	<b>NAME</b>	<b>PHONE / FAX</b>	<b>ADDRESS / E-MAIL</b>
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Stanley Consultants, Inc.	<b>Joy, Charlie, P.E., CFM</b> Senior Water Resources Engineer	P: 602-333-2365 F: 602-333-2333	1661 East Camelback Road, Suite 400, Phoenix, AZ 85016 <b>joycharles@stanleygroup.com</b>
Stanley Consultants, Inc.	<b>McCarty, Joel, P.E., CFM</b> Senior Water Resources Engineer	P: 602-333-2590 F: 602-333-2333	1661 East Camelback Road, Suite 400, Phoenix, AZ 85016 <b>mccartyjoel@stanleygroup.com</b>
<b>OTHERS</b>			
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AMEC	<b>Howey, Brett P.E.,</b> Unit Manager Geotechnical Services	P: 480-940-2320 F: 480-785-0970	1405 West Auto Drive, Tempe, AZ 85284-1016 <b>brett.howey@amec.com</b>
JE Fuller	<b>Ahern, Jon P.E., CFM</b> Water Resources Engineer	P: 623-889-0166 F: 480-839-2193	1 W. Deer Valley Road, Suite 101 Phoenix, AZ 85027 <b>jon.ahern@jefuller.com</b>
Ninyo & Moore	<b>Kasztalski, Marek P.E., P.M.P., LEED AP</b> Senior Geotechnical Engineer	P: 520-577-7600 F: 520-577-7606	1991 E. Ajo Way, Suite 145 Tucson, AZ 85713 <b>mkasztalski@ninyoandmoore.com</b>
Ninyo & Moore	<b>Nowaczyk, Steven, P.E.</b> Principal Engineer	P: 602-243-1600 F: 602-243-2699	3202 E. Harbour Drive Phoenix, AZ 85034 <b>snowaczyk@ninyoandmoore.com</b>
WEST Consultants, Inc.	<b>Davis, Chuck, CFM,</b> Hydraulic Engineer	P: 480-345-2155 F: 480-345-2156	8950 South 52nd Street, Suite 120 Tempe, AZ 85284-1043 <b>cdavis@westconsultants.com</b>
WEST Consultants, Inc.	<b>Wahlin, Brian, Ph.D., P.E., D. WRE</b> Office Manager/Senior Hydraulic Engineer	P: 480-345-2155 F: 480-345-2156	8950 South 52nd Street, Suite 120 Tempe, AZ 85284-1043 <b>bwahlin@westconsultants.com</b>
Wilson & Company	<b>Polillo, Jason</b>	P: 602-283-2701 F: 602-273-1230	410 North 44th Street Suite 460, Phoenix, AZ 85008 <b>jason.polillo@wilsonco.com</b>

EXHIBIT A



SCOPE OF WORK

CONTRACT FCD 2007C053  
Assignment No. 3

**Agua Fria River Floodplain Re-Delineation Study**

# EXHIBIT A

## SCOPE OF WORK

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This study will be a detailed Zone AE floodplain, with floodway, delineation for the lower 10 miles of the Agua Fria River. The lower 10 miles of the Agua Fria River is currently delineated as a detailed Zone AE with floodway. This project will re-delineate approximately 9.8 miles of Zone AE floodplain / floodway based on the current effective hydrologic flow rates. The general study area is shown on Attachment 1 and is bounded approximately on the north by the New River confluence and on the south by the Salt/Gila River.

All work must meet the requirements of the DISTRICT's Consultant Guidelines most current edition. All work must also meet the latest versions of the Arizona Department of Water Resources (ADWR) State Standards and the Federal Emergency Management Agency (FEMA) Guidelines and Specifications for floodplain delineations. Prior to the finalization of this contract, the DISTRICT must review and accept the results of this study and all items called for in this Scope of Work must be delivered to the DISTRICT.

The study will consist of tasks up to and including submittal to FEMA and, if assignment time allows, responding to FEMA review comments leading to FEMA approval. Another consultant working for the District will use the results of the hydraulic analysis of this re-study to evaluate freeboard associated with the Corps of Engineers soil cement levees that exist along the re-study reach. This re-study will recognize the Corps levees in the geometry of the hydraulic analysis with the resulting floodplain limit being delineated along the inboard side of the levee, in leveed locations. The actual levee certification to FEMA will be done by the other consultant for the District. The results of the re-study will be documented in a Technical Data Notebook (TDN) which will be incorporated by the other consultant for the District in their levee certification.

The work is divided into two phases. The first phase is an interim submittal due approximately 2 months after NTP that will culminate with the submittal of the final HEC-RAS model for the floodplain analysis and a floodplain map. The second phase will be submitted by June 20, 2011. It will include the floodway analysis in the HEC-RAS model, the Technical Data Notebook (TDN), and the floodplain work maps for submittal to FEMA. **This work assignment shall end approximately 2 months later to allow time to address any initial or immediate FEMA comments.**

### TASK 1 - COORDINATION

- 1.1 Within seven (7) days of the NTP the CONSULTANT will submit a project schedule to the DISTRICT's Project Manager showing coordination meetings and completion dates for each task identified in the Scope of Work (SOW). The schedule shall also show product submittal dates and DISTRICT product review periods. The CONSULTANT will update this project schedule when appropriate.

- 1.2 The CONSULTANT will participate in regular coordination meetings (meetings, telephone or e-mail) at least every two weeks with the DISTRICT's Project Manager and in milestone coordination meetings in the development of the hydrologic and hydraulic analyses. Coordination and milestone meetings should be combined whenever possible. The CONSULTANT is responsible for the minutes of any meetings. Draft meeting minutes must be prepared and delivered to the DISTRICT within seven (7) calendar days of all meetings.
- 1.3 The CONSULTANT will submit an estimate of the monthly billing within seven (7) calendar days of the NTP. Thereafter, this estimate will be updated and submitted to the DISTRICT's Project Manager as necessary but at least ten (10) calendar days before the end of each quarter whereas the end of a quarter in any given calendar year is March 31, June 30, and September 30, and December 31.
- 1.4 The CONSULTANT will submit monthly progress reports at least five (5) days before submittal of monthly invoices. The report shall be brief and should be no longer than two (2) typed pages. At a minimum, the monthly progress report shall contain the following:
  - 1.4.1 A short description of the work accomplished by task during the reporting month.
  - 1.4.2 Percent (%) completed for the month and percent (%) cumulative completed for each task.
  - 1.4.3 A brief description of the work to be accomplished in the following month.
  - 1.4.4 A description of any problems encountered.
- 1.5 The DISTRICT will create a mailing list and notify property-owners in the vicinity of the existing and/or final floodplain of the study, if required by FEMA. Right-of-entry letter for survey notice will be prepared and mailed by the DISTRICT.
- 1.6 The CONSULTANT shall be responsible for providing images (PDF) of the study area for the District's website to be used as part of the project description within the Projects and Structures folder. The DISTRICT may post the images and project information on the District's website.
- 1.7 Performance Evaluations will be performed by both the DISTRICT and the CONSULTANT at the completion of the project.

## **TASK 2 - DATA COLLECTION**

- 2.1 The CONSULTANT will collect and review pertinent data from the DISTRICT, Maricopa County Planning and Development, and the county and state transportation departments, and other outside sources. Data to be collected, if available, will include previous flood hazard reports, hydrology and hydrologic modeling for the study area, hydraulic modeling, historical flooding information, relevant stream and rain gage data, relevant storm drain and roadway crossing infrastructure information, as-built drawings, FEMA Flood Hazard Boundary Maps and/or Flood Insurance Rate Maps (FIRMs), FEMA Letters of Map Amendment (LOMA) / Revision (LOMR), repetitive loss claims, drainage complaints, Floodplain Use Permits, floodplain use violations, Elevation Certificates, and other pertinent information.
- 2.2 The DISTRICT will provide its GIS information, streets, effective DFIRMs, effective floodplain / floodway boundaries, latest aerial photography, and topographic mapping as described in Task 3.1.

- 2.3 A data collection summary will be submitted to the DISTRICT for information purposes. A preliminary draft is due within sixty (60) days of the NTP. The final will be included in Appendix A of the Technical Data Notebook.

### TASK 3 - TOPOGRAPHIC MAPPING

- 3.1 Topographic mapping, with 2-foot contour intervals (CI), will be provided by the DISTRICT. This mapping is in the Arizona State Plane Coordinate System Central Zone, 1983 North American Datum (NAD 83 HARN) International Feet, horizontal datum; and the North American Vertical Datum 1988 (NAVD 88), vertical datum. Mapping will be provided by the DISTRICT in the following formats: DTMs, mass points and break lines, and contour files. The mapping provided by the DISTRICT will be in three pieces but will have been edge matched. The CONSULTANT will not need to trim or match the mapping pieces to combine them into a single continuous coverage. The same is true for the DTM. No amendments will be made to the provided topographic mapping for areas within the sand and gravel mining operations that may have changed since the mapping was completed.

### TASK 4 - FIELD SURVEY

- 4.1 Field surveys and measurements of bridges, culverts, and hydraulic structures are to be obtained by the CONSULTANT when as-built plans are not available, or when conditions have changed that impact the Zone delineation. Geodetic Densification and Cadastral Survey GDACS control will be the basis of field survey, unless otherwise approved by the DISTRICT. This information should be reduced and compiled into an 11"x 17" (maximum size) sketch format approved by the DISTRICT, for inclusion in the TDN. The survey should meet the DISTRICT's Chief Surveyor's criteria for accuracy. The information presented in the sketch should be in a format appropriate for use in future HEC-RAS models. It may be necessary to field survey some structures since the as-built plans may not be on the same datum as the study. This includes an authorized task to survey the two low-flow culverts and the roadway at Lower Buckeye Road which was not part of the structure survey performed by Wilson & Company for the DISTRICT and provided to the CONSULTANT.

**Optional Task #1:** An additional optional survey task will be included by the CONSULTANT to cover field survey that may be needed that is not currently identified. This is an optional task and is not authorized with the Notice to Proceed. It may be authorized in writing by the DISTRICT based on specific need as determined by the DISTRICT during the contract period.

- 4.2 Copies of the sealed survey field notes and office calculations must be included in the Technical Data Notebook. The survey notes must be signed and sealed by an Arizona Registered Land Surveyor (RLS).

### TASK 5 - Hydrology

The flow rates found in the current effective HEC-2 model for the delineation of the Zone AE floodplains and floodways shall be used as the hydrology for the project.

### TASK 6 - FLOODPLAIN/FLOODWAY DELINEATION

- 6.1 Floodplain/Floodway delineations will be conducted using methodology as outlined by FEMA. The CONSULTANT will prepare the study using the guidelines established in FEMA's most current Guidelines and Specifications for Flood Hazard Mapping Partners, and FIA Document 12, Appeals, Revisions, and Amendments to Flood Insurance Maps, December 1993, and, if applicable, FEMA 265, *Managing Floodplain Development in Approximate Zone A Areas*, April 1995.

**Optional Task # 2:** The CONSULTANT may need to re-delineate portions of tributary channels such as and ADOT I-10 Channel or the Colter Channel depending on the outcome of the Agua Fria River delineation. It is not currently known if this is needed. This is an optional task and is not authorized with the Notice to Proceed. It may be authorized in writing by the DISTRICT based on specific need as determined by the DISTRICT during the contract period.

The CONSULTANT must obtain DISTRICT approval at each of the following steps:

- 6.1.1 Draft field reconnaissance section of the TDN and estimation of Manning's "n" values.
  - 6.1.2 Proposed location and alignment of the cross sections with draft floodplain delineations.
  - 6.1.3 Interim submittal of HEC-RAS model, floodplain only, with roll plot delineation map
  - 6.1.4 Floodplain and Draft Floodway delineations.
  - 6.1.5 Final hydraulics section of the TDN.
- 6.2 The delineation work shall meet requirements for floodplain delineations as prescribed by FEMA and the Arizona Department of Water Resources. The mapping scale shall be as approved by the DISTRICT. The hydraulic modeling and delineation work maps shall be in the North American Vertical Datum of 1988 (NAVD 88). The delineations shall be based upon the current effective flow rates as directed by the DISTRICT.
- 6.3 The CONSULTANT will delineate to the extents currently shown as effective detailed Zone AE floodplain and floodway boundary with the intent of superseding the effective study.
- 6.4 Hydraulics Field Reconnaissance
- 6.4.1 The CONSULTANT will conduct a field reconnaissance of the study area. This may include but is not limited to observation of channel and floodplain conditions for estimating Manning's "n" values; photographic documentation of floodplain characteristics; determination of channel bank characteristics; observation of possible overflow areas; and observation of levees or other flood control structures. The DISTRICT will be given notice and invited to this field trip.
  - 6.4.2 The current effective Manning's "n" values are to be utilized for the re-delineation, when possible. If quantifiably different, revised Manning's "n" values will be determined using the methodology in the USGS report, *Selection of Manning's Roughness Coefficient for Natural and Constructed Vegetated and Non-Vegetated Channels, and Vegetation Maintenance Plan Guidelines for Vegetated Channels in Central Arizona, 2006*. If approved by the DISTRICT, another report entitled *Estimated Manning's Roughness Coefficients for Stream Channels and Floodplains in Maricopa County, 1991*, may be substituted. Copies of these reports are available through the DISTRICT.
  - 6.4.3 Representative "n" values for each typical reach type will be selected. The reconnaissance data will present the determination of channel and over bank "n" values using captioned color photographs or color photocopies for each identified reach type in the project area, and the extents of the typical reach types shall be displayed on an aerial photo exhibit. The n-

value section will also discuss floodplain conditions affecting the delineation, describe structures and obstructions, and provide color photos or photocopies of major hydraulic structures. Photo locations for channels, structures, and "n" value determinations will be displayed on reduced scale mapping and included in the Final Report.

## 6.5 Cross Sections

- 6.5.1 The location and alignment of cross sections and channel centerlines will be submitted for the DISTRICT's review and approval, if different from the current effective study. The existing effective cross sections will be utilized to the most extent possible and will extend the full width of the area inundated by 100-year floodwaters. Additional cross sections will be added as necessary for hydraulic structures, changes in cross sectional geometry, obstructions, or where hydraulically necessary to minimize difference in computational head loss. Cross section stationing will be from left to right looking downstream with the hydraulic baseline at station 10,000. Identification of cross sections will be in river miles, increasing upstream. The cross sections may need to be reoriented or altered after running the HEC-RAS model to ensure that they are perpendicular to flow per FEMA criteria. Cross sections developed by the HEC-RAS interpolation feature are not to be used. The CONSULTANT must coordinate and document the methodology for generating the cross section geometric data. Acceptable methods include using a computer program to develop the data from digital mapping files or from field surveys. Cross sections located within the new topographic data provided by Wilson & Company will be compared to the cross sections utilizing the existing DISTRICT 2-foot CI mapping. In areas where sand and gravel operations have large excavated pits below the wash thalweg, an approach to modeling sand and gravel pits similar to the approach used by Coe and Van Loo may be used in this study. The pits will either be blocked out in the model, treated as ineffective flow areas, or artificially raised to limit their effects on the water surface elevations.
- 6.5.2 The HEC-RAS output for the Technical Data Notebook shall include fully labeled cross section plots in addition to summary tables and a full input/output report.
- 6.6 Bridges and culverts must be modeled according to HEC-RAS modeling requirements for the selected routine. Where multiple bridges occur, each bridge will be modeled separately. The HEC-RAS modeling results for bridges, culverts, and other hydraulic structures must be checked by using an independent method approved by the DISTRICT to analyze these structures. For bridges, the HEC-RAS results will be compared to the current effective model for reasonableness. The hydraulic effects of bridges and culverts shall be incorporated into assessing the floodplain around such structures, especially in areas where ponding will occur. Minor conveyance structures such as small culverts (i.e., less than 30 inches in diameter), or, structures considered likely to become clogged during the 100-year peak discharge shall not be included in the hydraulic analyses. The existing low-flow culverts at Lower Buckeye Road will be evaluated to determine if they are hydraulically significant enough to include in the HEC-RAS model.
- 6.7 For floodway encroachment modeling, the CONSULTANT shall first use HEC-RAS Method 4 (equal conveyance) where practical, or Method 5 (water surface and energy) as appropriate, then incorporate modifications and refinements, using HEC-RAS Method 1 (manual method). In order to classify locations where Method 5 may be more appropriate than Method 4, the CONSULTANT will provide the results of mixed flow regime runs for all models. Based upon the results, the CONSULTANT will make a recommendation which Method should be used for the final modeling. The final HEC-RAS files shall contain the final Method 1 information, and shall not contain the Method 4 or Method 5 information.

6.8 The main project description box of the HEC-RAS models should include the following:

- Project Name and FCD Contract Number
- Consultant(s) Name, phone number, address, website address, and Job Number
- Study Purpose
- File Name and latest run date/final date if completed
- Vertical Datum of the model, base map date, and base map contractor information
- Any notable features that are considered unique or unusual to the hydraulic modeling
- HEC-RAS program version.
- Source of Hydrology
- Wash Names
- Subsequent update information, if any.

In addition, minor descriptions should be added to the model for hydraulic sections located above and below drainage structures, at section lines, at highways and railway crossings, at canals, and at confluences. Model descriptions should be added at culverts and lateral structures, and at any other feature judged pertinent to the modeling.

- 6.9 The CONSULTANT will provide work maps using the DISTRICT's most recent aerial (contour) mapping. Photographic background in black and white in addition to the contour mapping may be at the DISTRICT's discretion. The work map drawings will be 24" X 36" in size. The work map scale will be 1 inch = 400 feet for the lower 6 sheets and will be 1 inch = 200 feet for the upper 7 sheets. A cover sheet will be part of the work-study drawings and shall include the project title, contract number, source and date of topographic mapping, and a location map showing geographic range covered by each specific mapping sheet. Each drawing will include the watercourse names and existing floodplain boundaries, proposed floodplain and floodway boundaries, a north arrow, map scale, section lines and corners, current streets and highway names, subdivision boundary names, Horizontal and Vertical Datum references (State Plane Coordinate System, NAD 83, and NAVD 88), any of the MCDOT's GDACS and any other monument control as directed by the DISTRICT, monument labels located within individual sheet boundaries, major drainage features, corporate boundaries, hydraulic cross section lines, base flood elevations, sheet index map, peak discharges, and relative Township and Range.
- 6.10 Flood Zones must be determined according to FEMA criteria and be clearly labeled on the final drawings.
- 6.11 The findings of the floodplain delineation study will be presented in Section 5 of the Technical Data Notebook and will be prepared in accordance with ADWR State Standards Attachment 1-97 (SSA 1-97). The report will be organized as specified by the DISTRICT standards, following SSA 1-97 format.
- 6.12 The CONSULTANT shall prepare submittals for DISTRICT review and comment. These submittals shall include all the material and background information for the DISTRICT to review the draft floodplains / floodways. Each submittal shall include the paper work maps with the delineations, the digital draft TDN report when available (minus the HEC-RAS output), and the digital floodplain / floodway delineations, hydraulic baseline and cross sections in shape file or CADD format. The files need not meet the DISTRICT's HIS / CADD Data Delivery Specifications at the various review stages.
- 6.13 The MT-2 forms required by FEMA for the submittal of the Floodplain Delineation Study will not be prepared as part of this study.

**Optional Task #3:** The CONSULTANT may need to complete MT-2 forms for hydraulic analysis and for survey. This is an optional task and is not authorized with the Notice to Proceed. It may be authorized in writing by the DISTRICT based on specific need as determined by the DISTRICT during the contract period.

- 6.14 CONSULTANT shall prepare draft FIS Report data consisting of applicable tables, annotated FIRM panels, and RASPLOT used to generate flood profiles.

## TASK 7 - DIGITAL DATA

Digital data shall be delivered in accordance with the Data Delivery Modified Shape File Specifications Version 1.2. Preliminary floodplains must be delivered to the DISTRICT at the time the study TDN is ready to be mailed to FEMA for review. After review, this preliminary data will be included on the pending floodplain layer in the DISTRICT's database. The following files are required at the time of FEMA submittal for placement on the pending layer:

- PRJ: Project Boundary
- PRJDAT: Project Identification
- DQ: Data Quality
- FPZNFCD: Floodplain Zones

The following themes, in addition to those listed under the Hydrology Task will be required for the final data delivery after FEMA approval:

- NDXPRJ: Map Sheet Index
- FPSRFFCD: Water Surface Elevation / Base Flood Elevation
- FPXFCD: Cross Sections
- FPBLN: Hydraulic Baseline

Listed below could be developed by the CONSULTANT for a Floodplain Delineation Study. Only those themes for which there is new data need to be delivered to the DISTRICT. If the CONSULTANT has data that does not fit one of the themes listed, the DISTRICT's Project Manager shall be contacted to determine the appropriate theme for that data.

- CARTO: (Cartographic Features) (separate submittals for Mapping and Flood Delineation)
- CORNERS: (if any)
- CTRL: (Miscellaneous Control Survey Points)
- LNDUSECUR: (Current Land Use)
- STRCT: (Structure)
- FPCTLFCD: (FCD Reference Marks)
- CNL: (Canal System, if any)
- RR: (Railroad System, if any)
- STRDTL: (Street Detail)
- ELV: (Elevation (Land))
- CULVERTS: (if any)
- LAKE: (if any)
- RIVER: (if any)

## TASK 8 - DELIVERABLES

- 8.1 Both paper and digital deliverables will be provided for each review and at the completion of each task.
- 8.2 Interim submittal: An interim submittal will be made to the DISTRICT that will include the HEC-RAS model with the final floodplain analysis. The submittal will include the HEC-RAS model and the floodplain mapped on roll plot at a scale of 1 inch = 400 feet. The plot will not have a border or formal title block but will include essential information such as a title, date, file name and scale. It will have the cross sections labeled with river mile location and the 100-year water surface elevation. The hydraulic baseline will also be shown with river mile ticks every 0.1 miles.

All of the following products are considered deliverables for the FEMA submittal:

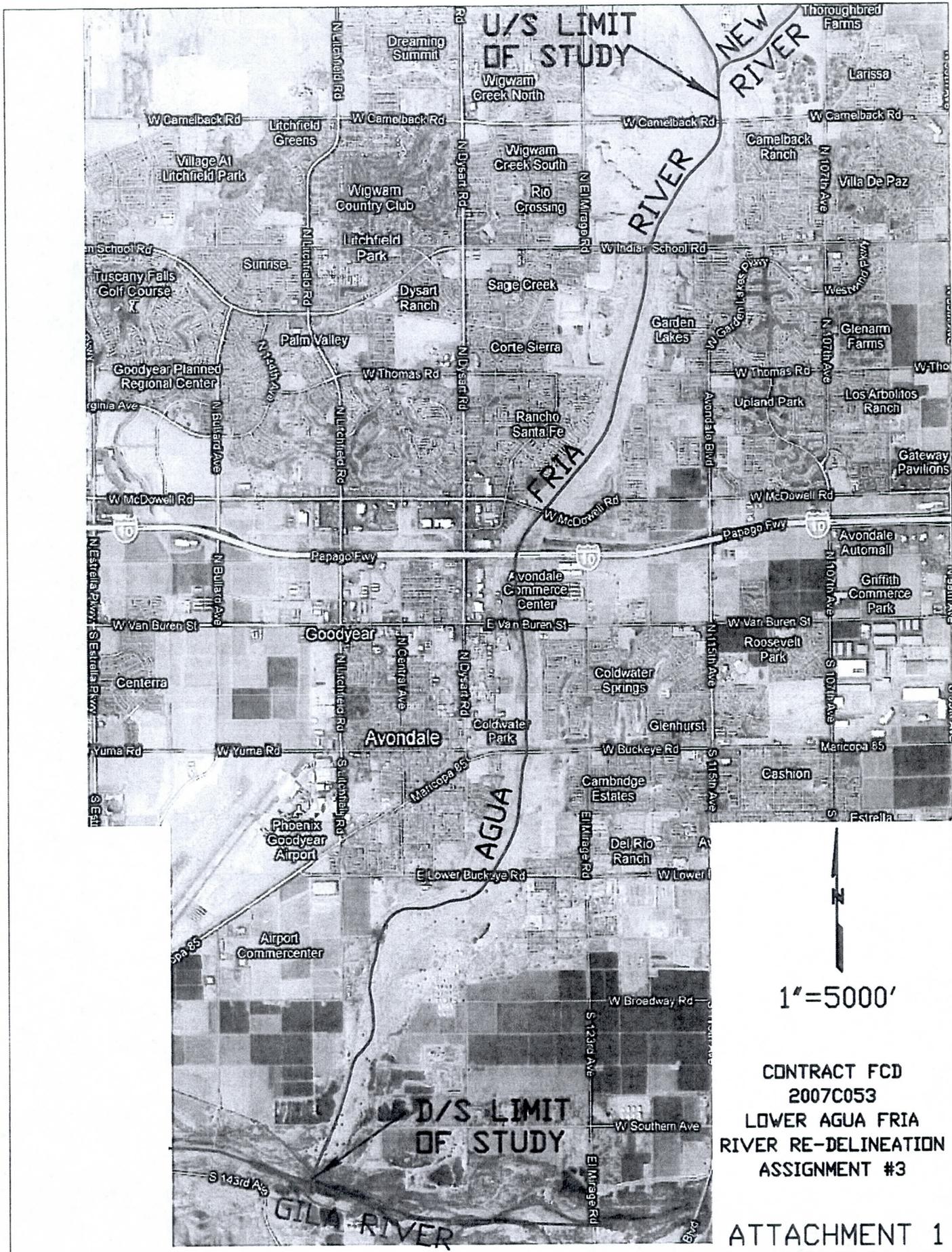
- 8.2.1 Two (2) complete sets of black line paper topographic base maps with the floodplain delineations shown. All drawings will be signed and sealed by persons of appropriate professional registration(s). Each registrant will provide a specific statement as to what service they performed. A scanned .pdf file of each sealed drawing will also be provided on a disc.
- 8.2.2 Two (2) complete copies of the Technical Data Notebook, including annotated Flood Insurance Rate Maps showing the proposed delineation, and HEC-RAS input/output files on disks. The Technical Data Notebook will be prepared and organized in accordance with ADWR State Standards Attachment 1-97 (SSA 1-97). A scanned .pdf file of the sealed Technical Data Notebook with appendices will also be provided on a disc.
- 8.3 Response to FEMA Comments: The CONSULTANT will respond to comments from FEMA and provide any additional / revised material necessary to address FEMA's comments if the review comments are received about 30 days prior to the assignment end date. Addressing review comments received after the end date of this work assignment will be handled under a separate work assignment.
- 8.4 The following products are considered deliverables to the DISTRICT:
- 8.4.1 Three (3) complete sets of sealed blackline paper topographic maps with the floodplain / floodway delineations shown. All drawings will be signed and sealed by persons of appropriate professional registration(s). Each registrant will provide a specific statement as to what service they performed.
- 8.4.2 All remaining hydrologic and floodplain/floodway delineation data in conformance with the DISTRICT's CADD Data Delivery or modified Shape file Specifications.
- 8.4.3 Three (3) complete copies of the Technical Data Notebook including HEC-RAS input/output files on disks. This submittal of the Technical Data Notebook shall include any correspondence and/or meeting minutes with the reviewing agencies and shall reflect any revisions required by those reviewing agencies. Revisions may include, but are not limited to, addressing FEMA's comments, modifications to the delineation maps, the HEC-RAS models, and/or the Final Report.

## STANLEY CONSULTANTS ASSUMPTIONS AND APPROACH:

1. MT-2 forms, if needed, will be included with the TDN submittal as an optional item.
2. As-builts for the existing bridges will not be needed because the Wilson & Company survey will be sealed and included with the TDN.
3. A duplicate effective HEC-RAS model will be created from the effective HEC-2 model. It is understood that the Coe and Van Loo model is the current effective model and will be utilized as such. It is assumed that an equivalent effective model of acceptable tolerance can be achieved in HEC-RAS.
4. Existing cross sections, boundary and starting water surface conditions will be utilized from the effective model as much as possible.
5. An approach to modeling sand and gravel pits similar to the approach used by Coe and Van Loo will be used in this study. The pits will either be blocked out in the model or artificially raised to limit their effects on the water surface elevations.
6. Any active clearing activities for future pedestrian paths within the study reach will be ignored due to the path width being insignificant in comparison to the overall floodplain width.
7. A 500-year analysis will not be included as part of this study.
8. The existing limit of study will be utilized at the Colter Channel tie in and at other tributaries.
9. Tributaries to the Agua Fria River will only be re-delineated if the water surface elevation within the Agua Fria River increases over the effective model at the tie-in locations. An optional task has been included for this if it is found to be needed.
10. It is anticipated that the upstream tie-in will occur at FEMA cross section BD.
11. The work maps will use the same scale and base windows as the Coe and Van Loo study. Only one set of work maps will be produced. Either an aerial photo backdrop or a topographic backdrop will be used or a combination of photo and topo backdrop as directed by the District. The District will provide aerial photo .tif or .sid files appropriate for use in preparing work maps and exhibits.
12. The existing low flow culverts at Lower Buckeye Road will be will be evaluated to determine if they are hydraulically significant enough to include in the HEC-RAS model. This will be documented in the TDN.
13. There is a LOMR currently being prepared by consultant Gannet-Fleming for the City of Avondale Water Reclamation Plant. The LOMR should be completed in about one month and submitted to FEMA. The location is near RM 1.00 within the Zone A on the east side of river. The Gannet-Fleming work is based on the current effective (95-05) study and not the 2009 mapping in this area. Gannet-Fleming is coordinating the project with the District for MT-2 Form concurrence. The current effective Zone A is proposed to be reduced and Zone X will be mapped instead. This area is a Zone A apparently because that was the best way to map what was an undetermined flow split in the 95-05 study. The current effective study has a flow split at RM

2.1 which is near Broadway Road. The split flow then splits again near RM 1.250. A flow distribution is utilized at RM 1.010 which involves a lateral weir in the model. A simple approach will be taken in the re-study scope whereby the pending Gannet-Fleming LOMR results will be assumed to have been approved by FEMA and their proposed Zone A / Zone X limits will be reflected. If a more complicated solution is needed involving remodeling the flow splits based on 2009 mapping, that can be done via change order as there is currently no optional item identified for it in this scope of work. This may result in the need to revise the Gannet-Fleming LOMR results.

14. This work is in support of the levee certification along the Agua Fria River and will recognize the levees in its analysis. However, it is understood that another consultant will be doing the actual levee certification for the District.



  
 1" = 5000'  
 CONTRACT FCD  
 2007C053  
 LOWER AGUA FRIA  
 RIVER RE-DELINEATION  
 ASSIGNMENT #3  
 ATTACHMENT 1



**Agua Fria River Floodplain Re-Delineation  
From Salt/Gila River to New River**

**APPENDIX C**  
**Survey Field Notes**

**Agua Fria River Floodplain Re-Delineation  
From Salt/Gila River to New River**

**APPENDIX C.1**  
**Stanley Consultants Survey Field Data**

**Survey Report for**  
**Agua Fria River Floodplain Re-Delineation**  
**Salt/Gila River to New River**

**FCD 2007C053**

Prepared by:

**Stanley Consultants, Inc.**

Prepared for:

**Flood Control District of Maricopa County**

June 2011

SCI Proj # 21205.03



## TABLE OF CONTENTS

1.0 INTRODUCTION .....	1
2.0 DESCRIPTION OF SURVEY CONTROL.....	1
2.1 Vertical and Horizontal Datum.....	1
2.2 Project Control and Benchmarks.....	1
3.0 FIELD SURVEY .....	2

## LIST OF APPENDICES

Appendix A: Field Photos  
Appendix B: Field Notes  
Appendix C: Point Lists

## 1.0 INTRODUCTION

This survey report covers the field survey data that was collected by Stanley Consultants for use in supplemental field survey of existing drainage features and roadways needed for the analysis of the project hydraulics. This field survey work supplements previous survey that was completed by Wilson & Company.

Survey points for this study were collected using GPS survey equipment. Survey data point lists and copies of survey field books are included in this appendix. All survey work performed for this study was done in accordance with Section 3.0 of the Flood Control District of Maricopa County's Consultant Guidelines dated December 1, 2003.

## 2.0 DESCRIPTION OF SURVEY CONTROL

The Agua Fria River survey was based on the National Geodetic Survey (NGS) control system. The primary monuments utilized for this project are: 23061-1, 23110-1, 23108-1, 30643-1, 54066-1, and 54062-1. These monuments are part of Maricopa County's Geodetic Densification and Cadastral Survey (GDACS) survey control network.

### 2.1 Vertical and Horizontal Datum

The NGS control monuments were utilized for the horizontal control system using published NAD83 State Plane Coordinate System with the international foot as the unit of measurement.

All survey for this project was performed using grid coordinates.

The vertical control for the survey was based on the same GDACS monuments, using the published North American Vertical Datum of 1988 (NAVD 88). The conversion factor used to convert the project elevations from NAVD 88 to NGVD 29 was (-) 2.061 feet.  $\text{NAVD 88} - 2.061 \text{ ft} = \text{NGVD 29}$ . This conversion factor was calculated by utilizing the NGS Vertcon software and the GDACS project control monuments to calculate an average conversion factor. This factor was used in comparing data with NGVD 29 elevations.

### 2.2 Project Control and Benchmarks

The following primary NGS points were incorporated in the base control. Northing and easting coordinates are "grid" coordinates.

- 23061-1  
Brass cap in hand hole at the intersection of Indian School Rd and 107<sup>th</sup> Ave 1472  
Northing (ft) 907340.348  
Easting (ft) 586124.658  
NAVD 88 ELEV (ft) 1022.571
- 23110-1  
Brass cap in hand hole at the intersection of Thomas Rd and 115<sup>th</sup> Ave  
Northing (ft) 901869.403  
Easting (ft) 581091.557  
NAVD 88 ELEV (ft) 1010.210
- 23108-1  
Brass cap in hand hole at the intersection of McDowell Rd and 115<sup>th</sup> Ave  
Northing (ft) 896612.773  
Easting (ft) 581083.570  
NAVD 88 ELEV (ft) 1000.262
- 30643-1  
Brass cap in hand hole at the intersection of Indian School Alignment and El Mirage Rd  
Northing (ft) 907217.635  
Easting (ft) 575901.048  
NAVD 88 ELEV (ft) 1017.887
- 54066-1  
Brass cap in hand hole at the intersection of Lower Buckeye Rd and Litchfield Rd  
Northing (ft) 880926.546  
Easting (ft) 565402.883  
NAVD 88 ELEV (ft) 965.994
- 54062-1  
Brass cap in hand hole at the intersection of Lower Buckeye Rd and El Mirage Rd  
Northing (ft) 880782.185  
Easting (ft) 575808.024  
NAVD 88 ELEV (ft) 962.019

### 3.0 FIELD SURVEY

Stanley Consultants' survey crew obtained field coordinate data for physical features along the project corridor that would be related to the analysis. Survey point coordinates lists and copies of field books are found with this summary. Black and white field photos are included in Appendix A and color photos are included on CD as well.

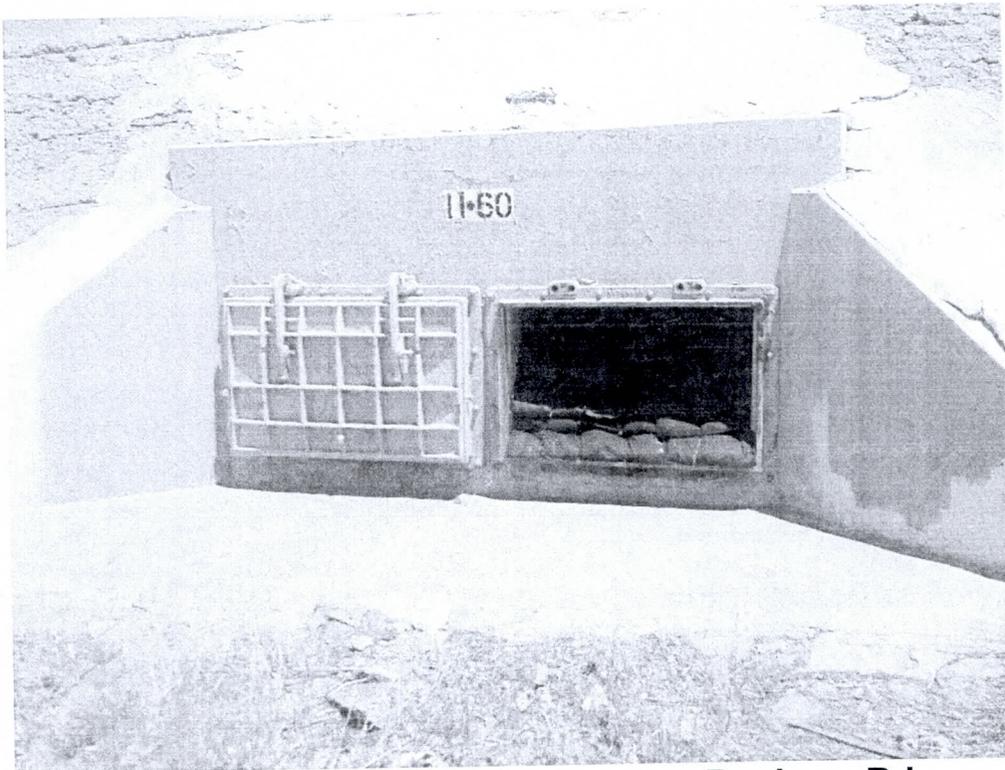
**APPENDIX A**  
**FIELD PHOTOS**



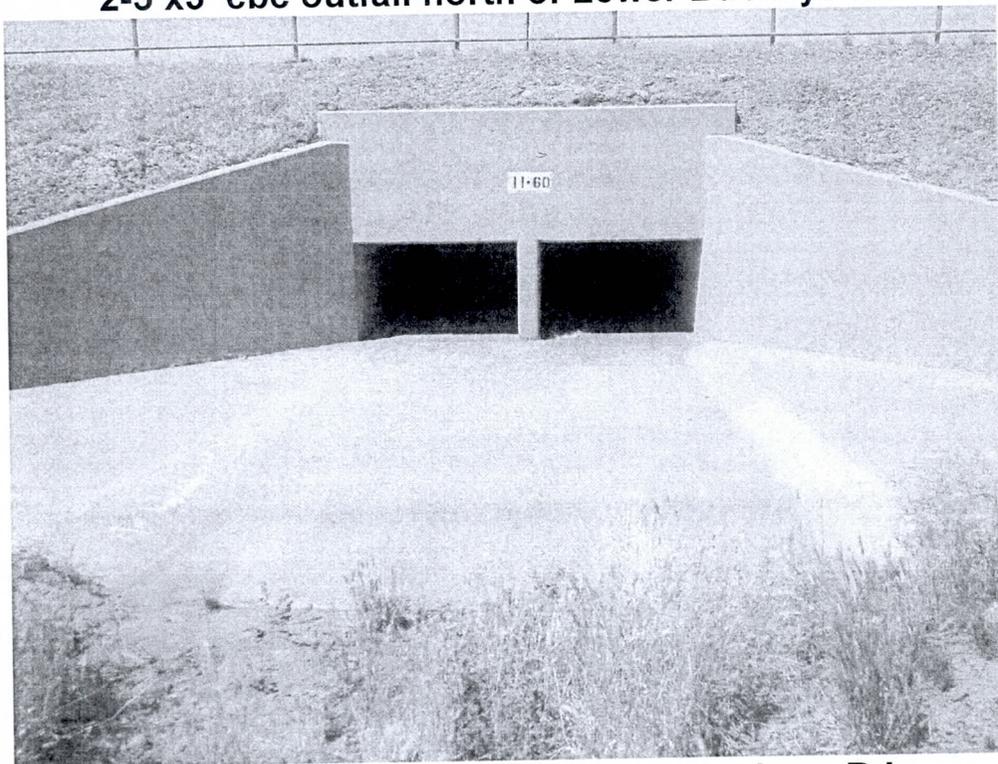
**2x60 inch inlet headwall at RID Canal**



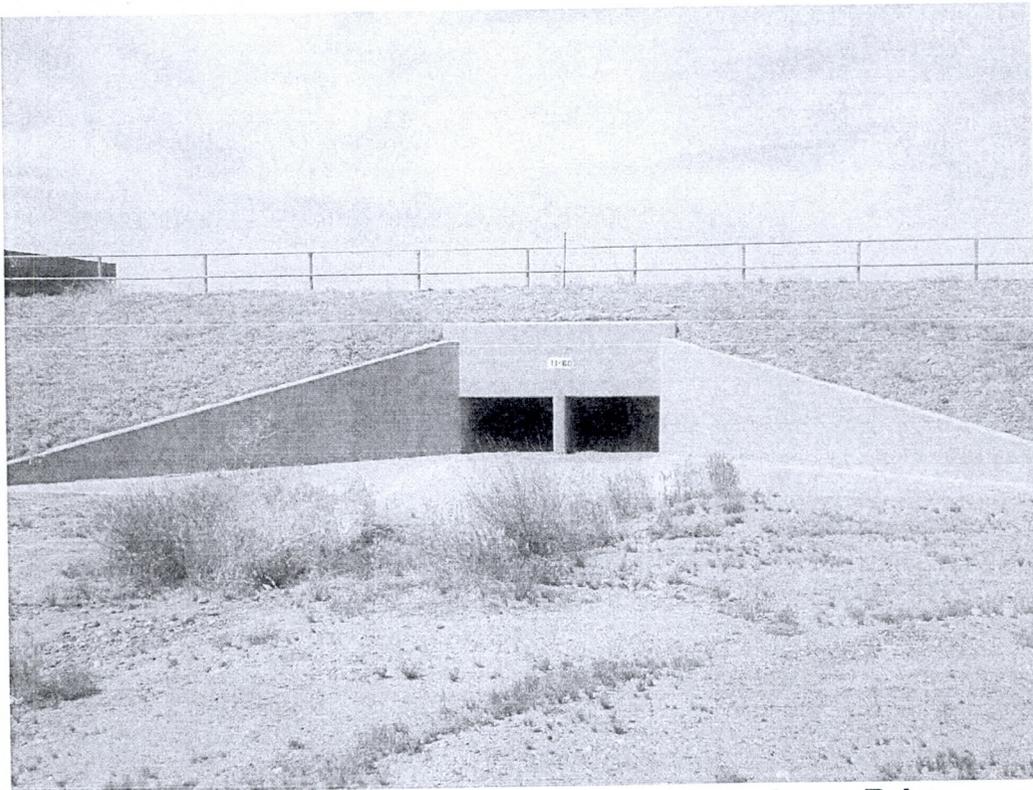
**2x60 inch inlet headwall at RID Canal Overgrown**



**2-5'x3' cbc outfall north of Lower Buckeye Rd**



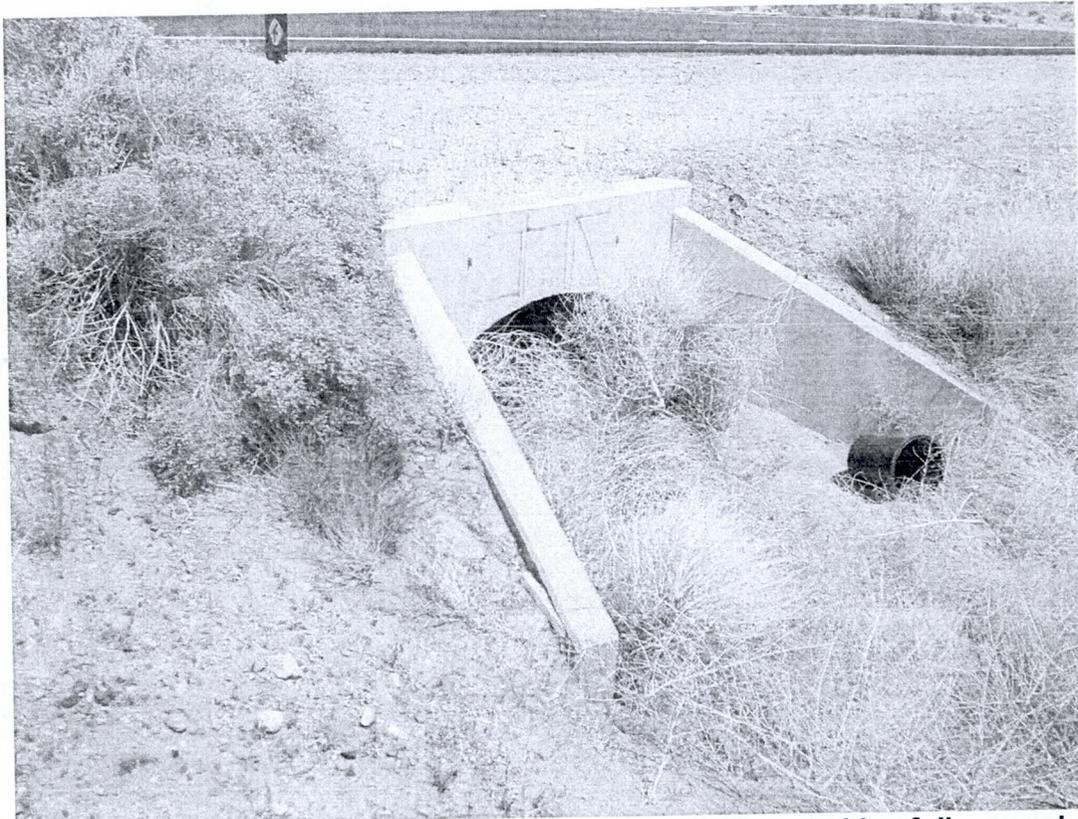
**2-5'x3' cbc inlet north of Lower Buckeye Rd**



**2-5'x3' cbc inlet north of Lower Buckeye Rd**



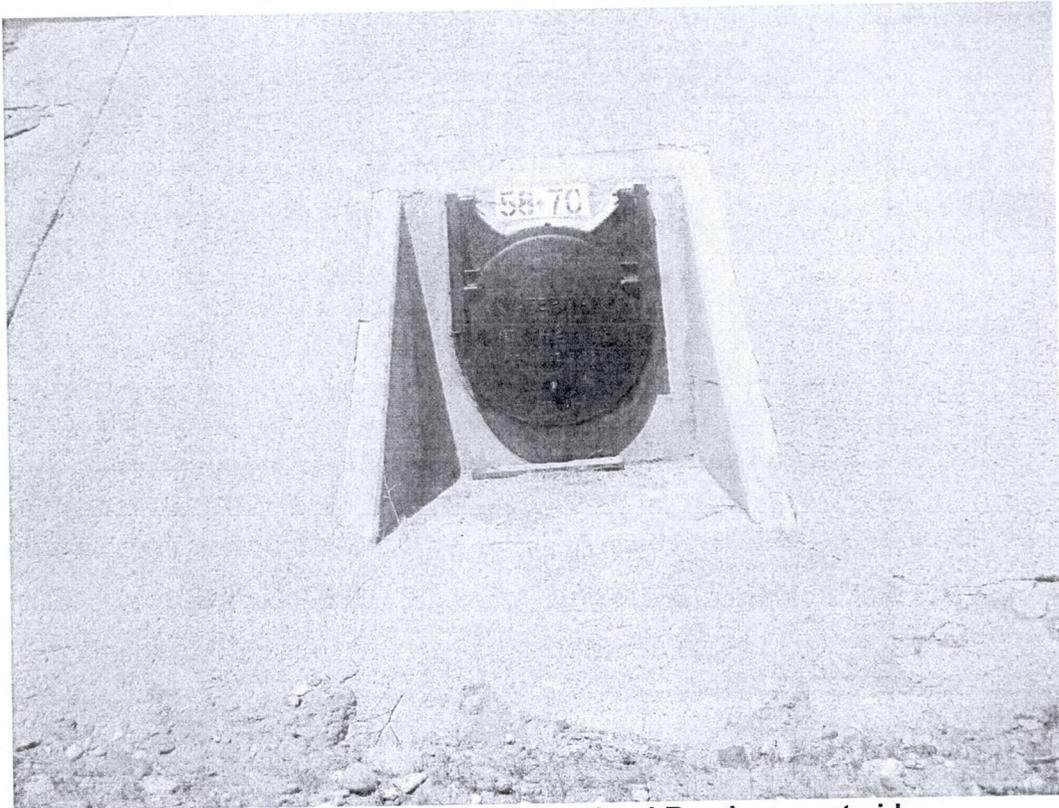
**Inlet of elliptical pipe under Lower Buckeye Road on east side of dip crossing**



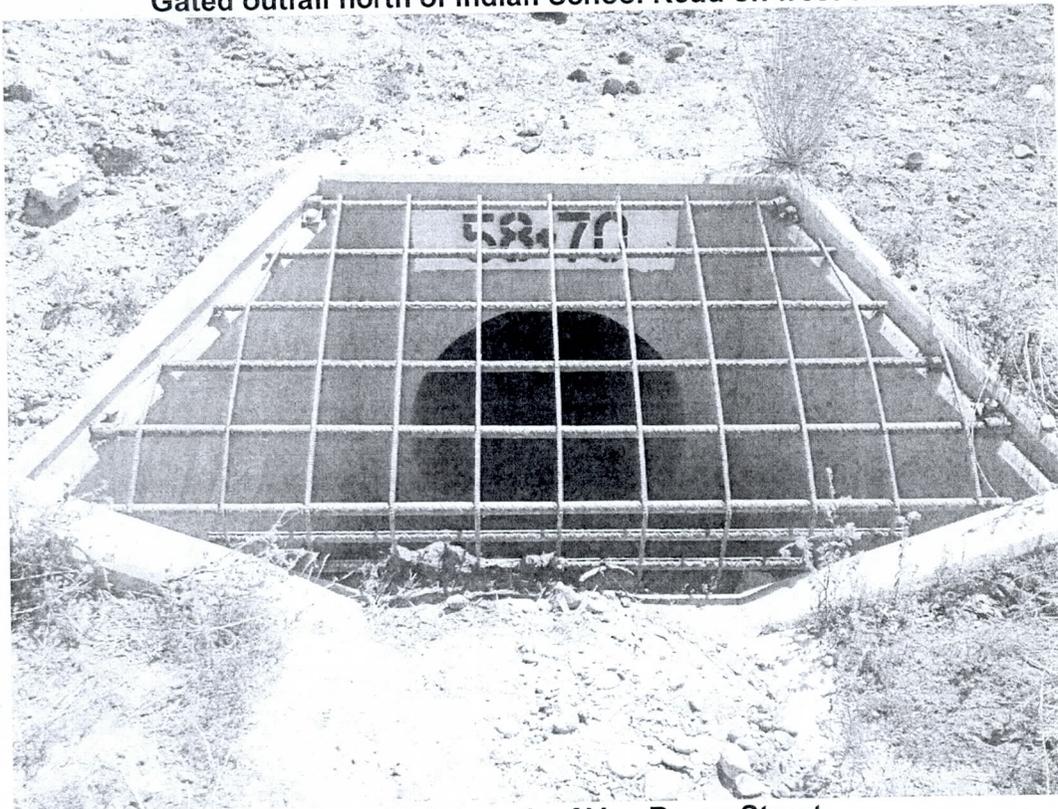
Outlet of elliptical pipe under Lower Buckeye Road on east side of dip crossing



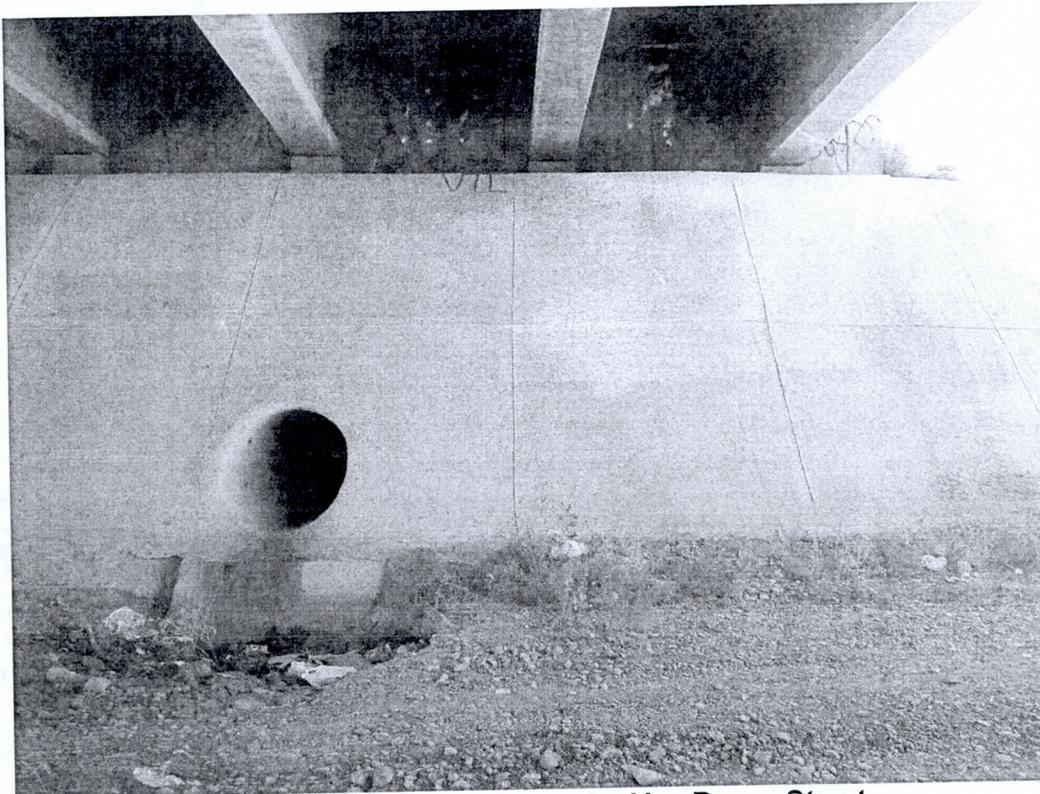
Gated 2-60" pipe outfall at RID Canal



**Gated outfall north of Indian School Road on west side**



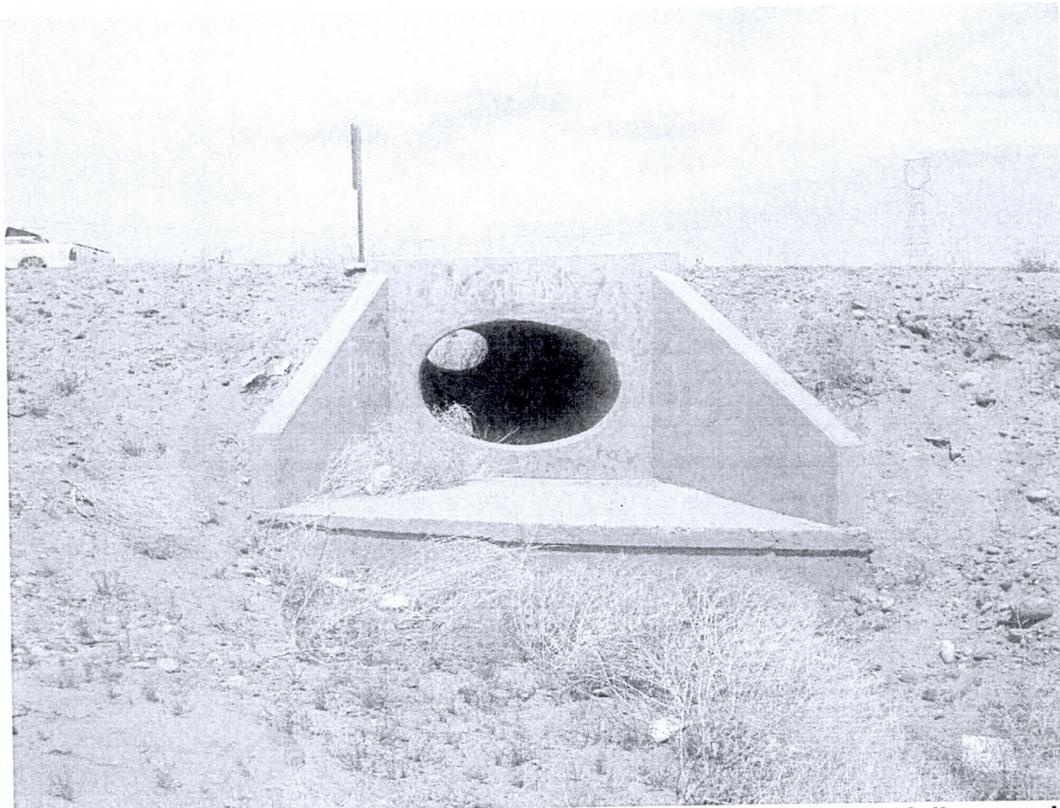
**42" gated inlet north of Van Buren Street**



Ungated 48" pipe outfall under Van Buren Street



Inlet of elliptical pipe under Lower Buckeye Road on west side of dip crossing



Outlet of elliptical pipe under Lower Buckeye Road on west side of dip crossing

**APPENDIX B**  
**FIELD BOOKS**

5/3/2011

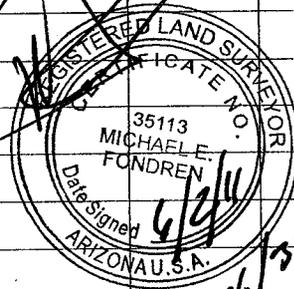
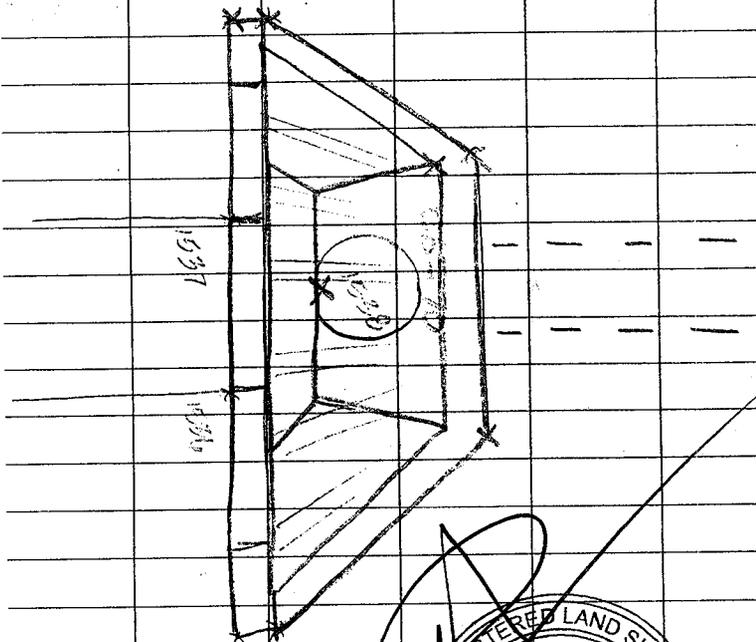
9

PG 72

42" INLET SIDE  
NORTH OF VAN BUREN  
TRASH JACK ON  
STRUCTURE

A

N

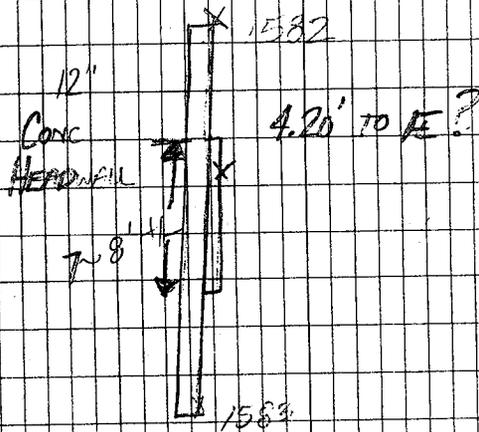


copy 6/30/12

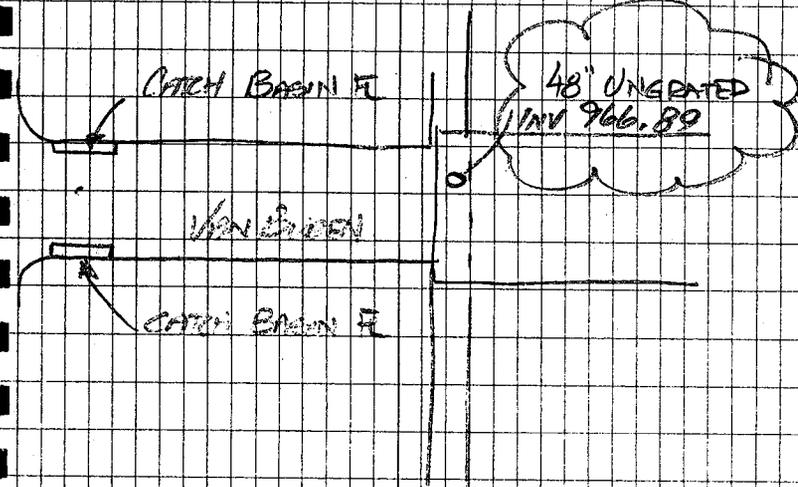
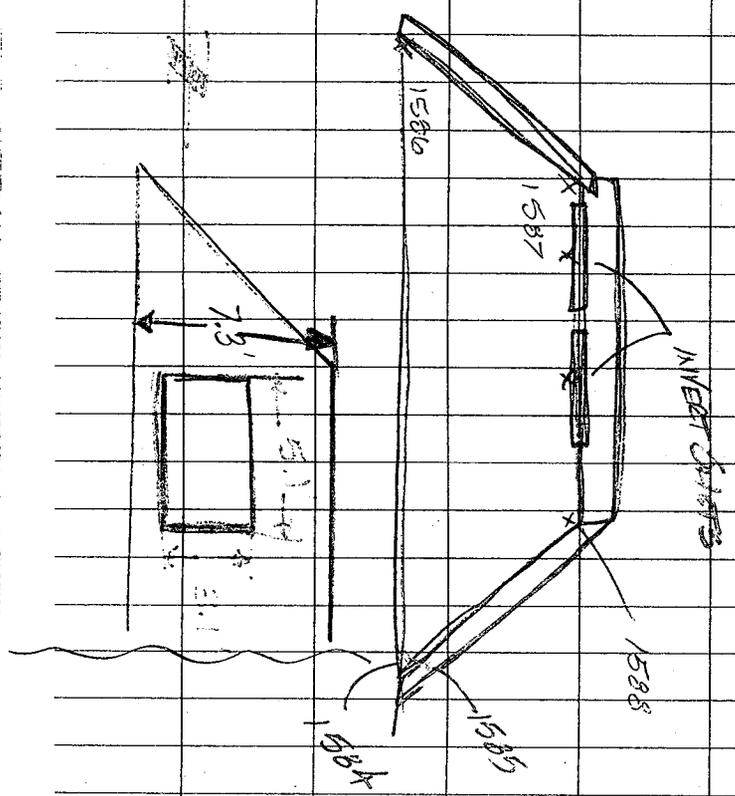
DIAGRAM FROM CONCRETE HOOD

EAST INLET FOR  
DOUBLE 60" DUTY-FALL  
SOURCE OF PUD (PUMP)

\* DRAINAGE CHANNEL OVERGROWN  
CANNOT DETERMINE EXACT EDGE  
OR SURFACE



NORTH OF LOWER BUCKEYE  
WEST OUTFALL 2X60X36"  
PIPE

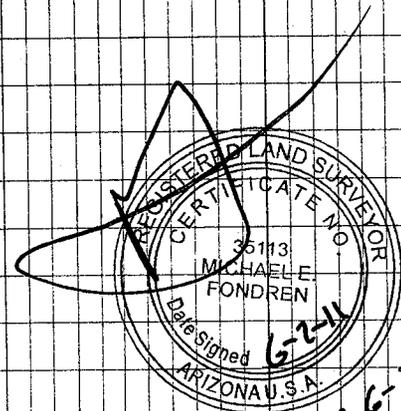


②

4/19/2011  
BG TL

BUCKEYE FLOOD CONTROL  
DISTRICT

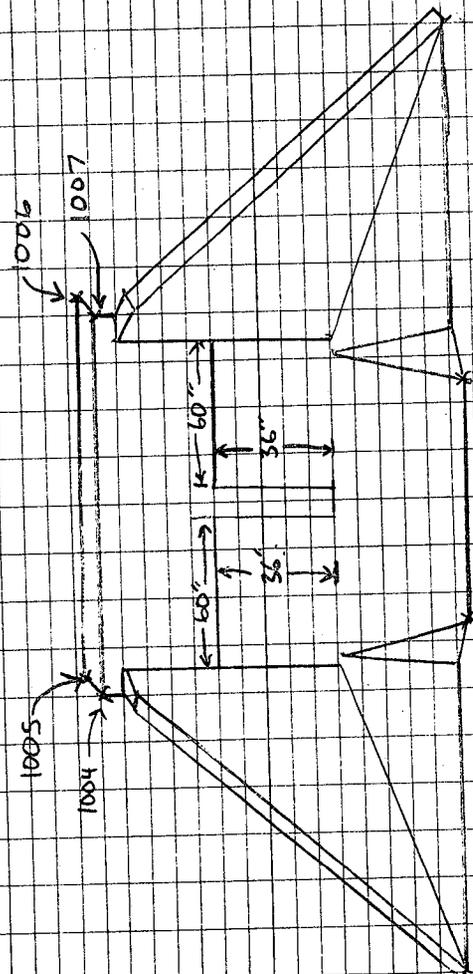
LOWER BUCKEYE / FLOOD CONTROL  
RIVER CROSSING  
@ DIVISANT / WINDYFIELD



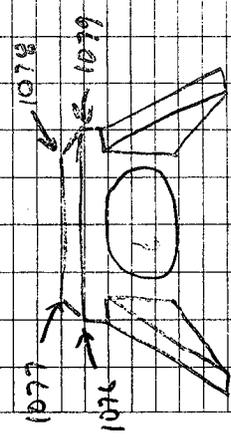
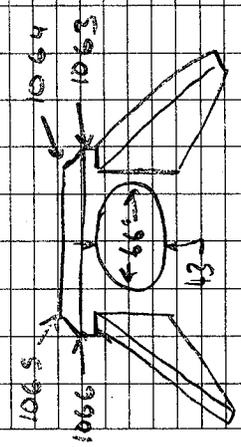
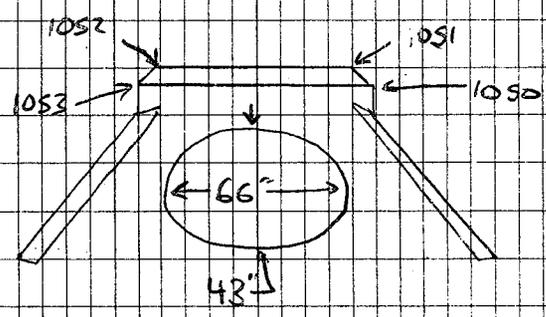
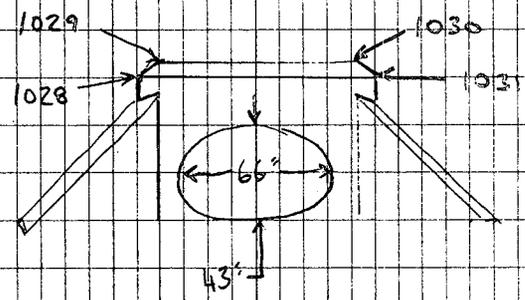
6-2-11  
EP 6-30-12

Buckeye Flood Control

3



4



# Van Buren

4-28-11

(5)

48" CULVERT OPENINGS  
UNDER ~~TRAIL~~ ROAD  
~ WEST SIDE ~

PT# 1507 TEM

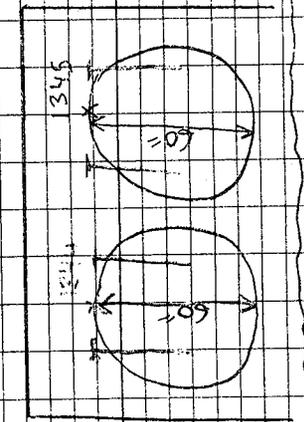
3.70

3.73

INVERT  
48"  
UN COVERED

3.57

3.55 ✓

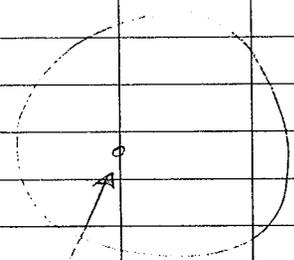


X-TRANS  
CONCRETE

ST# 14711.

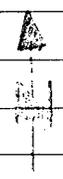
3" MCDOT AC IN  
HL @ EL MIRAGE  
.5' DOWN IN HL  
NO 10

ST# 14711  
EL MIRAGE  
107E / 107W



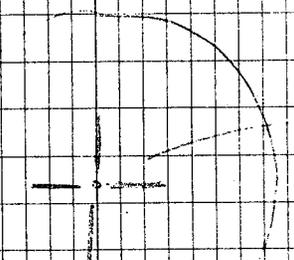
SHOT HERE

EL MIRAGE



LOCATION!

MIRAGE



SHOT HERE

EL MIRAGE

LOCATION!

MIRAGE

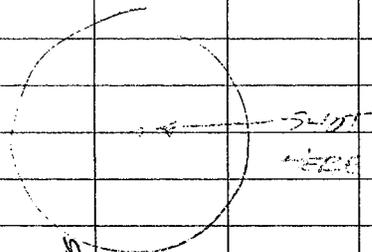
DT # 1473 ~ END 3'

MC DOT HIGH DEPT

BC IN H/L POINT

AVONDALE / THOMAS

NO ID



GARDEN LAKES

LOCATION

THOMAS

AVONDALE  
BLVD.

⑦

DT # 1474 ~ END 3' MC DOT

MC DOT 3' 9"

MC DOT / THOMAS

A

M

THOMAS

AVONDALE

500 500 3 BC IN

500 INT LOWER QUARTER /  
LITHIFIED

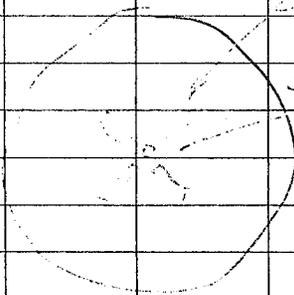
NO 10

500

500 3" UPPER QUARTER  
BC IN 1/2" 3" SAND  
LOWER QUARTER /  
LITHIFIED

NO 10

Upper Quarter



3" 1/2" 1/2" 1/2"



NO 10

Upper Quarter

Lower Quarter



NO 10

Upper Quarter

Lower Quarter

**APPENDIX C**  
**POINT LISTS**

## Stanley Consultants Survey Points

1000,880921.410,573063.618,949.686,WINGWALL  
1001,880922.042,573063.789,949.678,WINGWALL  
1002,880939.237,573044.887,954.838,WINGWALL  
1003,880938.388,573044.849,954.807,WINGWALL  
1004,880938.547,573044.744,955.700,HEADWALL  
1005,880938.476,573044.003,955.660,HEADWALL  
1006,880950.882,573043.754,955.663,HEADWALL  
1007,880950.785,573044.458,955.674,HEADWALL  
1008,880950.171,573044.693,954.815,WINGWALL  
1009,880950.951,573044.576,954.836,WINGWALL  
1010,880968.827,573062.746,949.849,WINGWALL  
1011,880968.187,573062.809,949.901,WINGWALL  
1012,880967.948,573062.815,949.759,APRON  
1013,880951.503,573063.204,949.734,APRONTOP  
1014,880949.953,573063.216,948.933,APRONTOE  
1015,880949.724,573055.544,948.997,APRONTOE  
1016,880950.605,573055.669,949.449,APRONTOP  
1017,880949.488,573045.401,948.854,APRONTOP  
1018,880949.379,573045.455,948.849,APRONTOE  
1019,880940.113,573045.637,948.900,APRONTOE  
1020,880939.944,573045.628,948.870,APRONTOP  
1021,880939.113,573056.141,949.368,APRONTOP  
1022,880940.251,573056.119,948.956,APRONTOE  
1023,880940.199,573063.491,948.894,APRONTOE  
1024,880938.706,573063.290,949.682,APRONTOP  
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1026,880939.384,573044.899,948.811,APRON  
1027,880949.999,573044.674,948.771,APRON  
1028,880896.929,571939.186,943.029,HEADWALL  
1029,880896.070,571938.350,943.079,HEADWALL  
1030,880896.100,571930.834,943.020,HEADWALL  
1031,880896.980,571930.302,943.054,HEADWALL  
1032,880897.066,571938.479,942.508,WINGWALL  
1033,880897.014,571939.269,942.370,WINGWALL  
1034,880902.795,571944.483,939.691,WINGWALL  
1035,880903.662,571944.419,939.436,WINGWALL  
1036,880902.319,571926.571,940.440,WINGWALL  
1037,880901.801,571926.152,940.425,WINGWALL  
1038,880896.979,571930.245,942.422,WINGWALL  
1039,880897.085,571930.971,942.583,WINGWALL  
1040,880897.200,571934.855,937.406,INVERT  
1041,880831.203,571938.493,942.354,WINGWALL  
1042,880831.220,571939.040,942.305,WINGWALL  
1043,880824.198,571941.606,939.188,WINGWALL  
1044,880824.046,571941.026,939.177,WINGWALL  
1045,880831.225,571930.713,942.356,WINGWALL  
1046,880831.258,571930.003,942.355,WINGWALL

## Stanley Consultants Survey Points

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1050,880831.381,571939.012,943.141,HEADWALL  
1051,880830.564,571941.976,939.780,HEADWALL  
1052,880830.723,571933.735,939.840,HEADWALL  
1053,880829.684,571933.317,939.914,HEADWALL  
1054,880929.202,571166.960,939.815,WINGWALL  
1055,880928.932,571166.614,940.030,WINGWALL  
1056,880921.854,571171.255,943.470,WINGWALL  
1057,880921.876,571170.596,943.367,WINGWALL  
1058,880921.829,571179.165,943.475,WINGWALL  
1059,880921.784,571179.776,943.427,WINGWALL  
1060,880928.726,571179.851,939.736,WINGWALL  
1061,880928.808,571179.292,939.722,WINGWALL  
1062,880922.070,571175.095,938.806,INVERT  
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1070,880847.965,571205.305,939.363,WINGWALL  
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1075,880855.104,571193.035,943.295,WINGWALL  
1076,880855.295,571192.378,943.853,HEADWALL  
1077,880856.132,571192.429,943.826,HEADWALL  
1078,880855.771,571200.952,943.880,HEADWALL  
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1080,880847.760,571205.408,937.647,APRON  
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1082,880855.067,571193.189,937.698,APRON  
1083,880854.857,571200.827,937.619,APRON  
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1086,880883.494,570421.688,955.579,EP  
1087,880882.968,570516.217,955.065,EP  
1088,880905.789,570516.492,955.815,CLPVMT  
1089,880928.931,570517.296,954.880,EP  
1090,880928.631,570612.172,954.363,EP  
1091,880905.102,570612.335,955.036,CLPVMT  
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1093,880881.151,570705.759,953.584,EP

## Stanley Consultants Survey Points

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1095,880927.274,570707.632,953.487,EP  
1096,880923.995,570801.303,951.952,EP  
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1099,880875.319,570892.851,950.489,EP  
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1107,880891.798,571100.340,947.167,CLPVMT  
1108,880906.291,571101.401,946.740,EP  
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1115,880901.140,571324.872,942.036,EP  
1116,880901.948,571325.162,941.987,EC  
1117,880898.545,571423.768,940.164,EC  
1118,880881.311,571421.365,939.966,CL  
1119,880862.864,571420.612,939.670,EC  
1120,880859.290,571528.132,939.037,EC  
1121,880877.432,571530.794,939.321,CL  
1122,880895.219,571532.114,939.567,EC  
1123,880891.802,571635.348,939.639,EC  
1124,880874.021,571633.168,939.431,CL  
1125,880856.025,571632.354,939.102,EC  
1126,880852.067,571753.623,941.531,EC  
1127,880853.031,571754.233,941.496,EP  
1128,880869.899,571753.911,941.860,CLPVMT  
1129,880887.831,571754.036,941.999,EP  
1130,880887.995,571753.909,941.987,EC  
1131,880882.021,571856.589,944.193,EP  
1132,880867.104,571854.908,944.111,CLPVMT  
1133,880851.132,571854.171,943.619,EP  
1134,880876.553,572004.770,944.668,EP  
1135,880861.909,572003.033,944.781,CLPVMT  
1136,880846.821,572002.503,944.382,EP  
1137,880842.609,572110.059,944.899,EP  
1138,880857.184,572111.692,944.989,CLPVMT  
1139,880871.951,572114.118,945.082,EP  
1140,880868.506,572223.831,945.179,EP

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1141,880853.587,572221.910,945.112,CLPVMT  
1142,880838.837,572221.397,944.846,EP  
1143,880836.358,572330.037,945.857,EP  
1144,880850.352,572332.172,946.240,CLPVMT  
1145,880864.727,572333.298,945.986,EP  
1146,880861.691,572436.774,947.803,EP  
1147,880846.621,572435.375,948.224,CLPVMT  
1148,880832.838,572434.890,948.057,EP  
1149,880829.328,572538.447,950.087,EP  
1150,880843.498,572539.868,950.376,CLPVMT  
1151,880857.902,572541.612,950.082,EP  
1152,880854.735,572652.569,952.272,EP  
1153,880839.622,572651.503,952.671,CLPVMT  
1154,880825.738,572651.535,952.390,EP  
1155,880813.002,572759.508,954.343,EP  
1156,880836.419,572760.451,954.813,CLPVMT  
1157,880860.495,572761.518,954.610,EP  
1158,880856.792,572860.135,956.209,EP  
1159,880833.161,572857.601,956.502,CLPVMT  
1160,880811.039,572856.314,955.816,EP  
1161,880807.232,572963.593,957.685,EP  
1162,880829.841,572966.073,958.142,CLPVMT  
1163,880853.135,572967.634,957.747,EP  
1164,880853.334,573027.695,958.519,EP  
1165,880827.959,573024.862,958.663,CLPVMT  
1166,880802.354,573024.571,958.215,EP  
1167,887990.900,572689.999,959.782, TOPSS  
1168,887980.078,572690.374,959.127, NG  
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1170,887980.484,572717.418,959.617, TOPSS  
1171,887978.812,572717.569,958.238, TOESS  
1172,887968.453,572716.839,958.204, NG  
1173,887963.242,572821.083,959.112, NG  
1174,887979.874,572817.656,958.890, TOESS  
1175,887981.095,572817.638,959.778, TOPSS  
1176,887990.607,572817.789,959.827, TOPSS  
1177,887991.191,572926.631,960.084, TOPSS  
1178,887980.503,572927.513,960.086, TOPSS  
1179,887963.089,572926.270,960.151, NG  
1180,887989.362,573027.911,959.945, TOPSS  
1181,887979.835,573027.386,959.959, TOPSS  
1182,887977.501,573026.799,958.310, TOESS  
1183,887962.865,573026.026,958.358, NG  
1184,887961.757,573128.337,958.901, NG  
1185,887976.915,573127.963,958.052, TOESS  
1186,887979.722,573128.411,959.962, TOPSS  
1187,887988.705,573128.117,959.965, TOPSS

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1188,887989.651,573237.308,959.921, TOPSS  
1189,887979.660,573237.412,959.935, TOPSS  
1190,887977.513,573237.302,958.251, TOESS  
1191,887965.372,573237.704,958.787, NG  
1192,887964.037,573342.241,958.159, NG  
1193,887977.663,573342.498,958.883, TOESS  
1194,887978.999,573342.369,959.866, TOPSS  
1195,887990.543,573342.653,960.145, TOPSS  
1196,887990.250,573443.484,960.014, TOPSS  
1197,887979.737,573443.540,960.081, TOPSS  
1198,887977.327,573443.650,958.424, TOESS  
1199,887961.925,573441.625,958.742, NG  
1200,887960.691,573537.536,958.617, NG  
1201,887978.957,573536.872,959.565, TOESS  
1202,887979.975,573536.906,960.000, TOPSS  
1203,887990.286,573537.260,959.982, TOPSS  
1204,887990.459,573642.707,959.263, TOPSS  
1205,887980.562,573642.834,959.346, TOPSS  
1206,887976.805,573641.679,956.126, TOESS  
1207,887960.756,573640.877,956.270, NG  
1208,887990.754,573730.695,959.399, TOPSS  
1209,887980.208,573730.548,959.599, TOPSS  
1210,887977.302,573730.635,957.326, TOESS  
1211,887961.197,573729.718,957.565, NG  
1212,887955.068,573787.883,958.991, NG  
1213,887980.183,573787.103,959.858, TOPSS  
1214,887988.226,573786.804,959.909, TOPSS  
1215,893838.185,572106.050,972.012, TOPSS  
1216,893828.495,572105.683,971.737, TOPSS  
1217,893816.566,572105.718,970.993, NG  
1218,893796.969,572199.221,969.494, NG  
1219,893807.372,572200.935,969.310, NG  
1220,893811.654,572201.633,968.403, TOESS  
1221,893815.889,572201.903,971.481, TOPSS  
1222,893825.999,572203.348,971.677, TOPSS  
1223,893810.770,572303.494,971.967, TOPSS  
1224,893800.092,572301.973,971.782, TOPSS  
1225,893797.375,572301.113,969.856, TOESS  
1226,893785.617,572299.170,970.376, NG  
1227,893766.478,572405.848,969.501, NG  
1228,893775.583,572406.229,968.844, NG  
1229,893779.929,572407.556,967.363, TOESS  
1230,893784.367,572408.957,971.433, TOPSS  
1231,893794.667,572410.367,971.982, TOPSS  
1232,893778.386,572526.380,971.957, TOPSS  
1233,893766.554,572526.510,971.736, TOPSS  
1234,893756.708,572525.096,972.193, NG

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1235,893760.290,572637.561,971.597, TOPSS  
1236,893751.018,572636.655,971.736, TOPSS  
1237,893748.793,572636.610,970.447, TOESS  
1238,893732.659,572634.509,969.945, NG  
1239,893742.372,572762.455,971.743, TOPSS  
1240,893731.682,572762.279,971.609, TOPSS  
1241,893730.640,572762.010,971.435, TOESS  
1242,893719.418,572759.807,971.831, NG  
1243,893699.659,572859.988,969.252, NG  
1244,893715.756,572861.357,969.061, TOESS  
1245,893718.043,572861.566,971.460, TOPSS  
1246,893727.452,572862.794,971.382, TOPSS  
1247,893709.754,572978.844,971.441, TOPSS  
1248,893700.395,572978.219,971.369, TOPSS  
1249,893699.315,572977.822,970.569, TOESS  
1250,893688.521,572975.321,971.714, NG  
1251,893669.170,573086.231,970.979, NG  
1252,893682.660,573086.324,970.417, TOESS  
1253,893683.841,573086.545,971.486, TOPSS  
1254,893693.917,573088.073,971.468, TOPSS  
1255,893677.333,573195.592,971.419, TOPSS  
1256,893668.184,573193.813,971.424, TOPSS  
1257,893667.578,573193.663,971.148, TOESS  
1258,893660.332,573193.095,972.476, NG  
1259,893645.506,573191.162,972.132, NG  
1260,893639.534,573291.045,972.051, NG  
1261,893652.365,573293.861,971.169, TOESS  
1262,893652.953,573293.946,971.598, TOPSS  
1263,893663.257,573295.885,971.526, TOPSS  
1264,893646.477,573410.028,971.737, TOPSS  
1265,893634.429,573410.321,971.758, TOPSS  
1266,893619.403,573408.393,971.997, NG  
1267,893605.632,573481.508,971.310, NG  
1268,893623.131,573480.678,971.480, TOPSS  
1269,893637.225,573478.022,971.564, TOPSS  
1270,898130.674,574959.981,981.882, TOPSS  
1271,898123.895,574954.963,981.394, TOPSS  
1272,898110.544,574944.962,981.557, NG  
1273,898050.678,575013.028,982.067, NG  
1274,898063.899,575023.662,982.048, TOPSS  
1275,898071.018,575030.097,981.915, TOPSS  
1276,898004.072,575108.288,981.735, TOPSS  
1277,897997.353,575102.794,981.642, TOPSS  
1278,897988.348,575094.619,981.770, NG  
1279,897923.103,575162.650,980.557, NG  
1280,897935.990,575174.150,981.269, TOESS  
1281,897937.177,575174.570,981.731, TOPSS

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1282,897942.751,575180.106,981.675,TOPSS  
1283,897869.758,575264.743,981.893,TOPSS  
1284,897864.638,575259.050,981.870,TOPSS  
1285,897849.219,575246.299,981.453,NG  
1286,897775.326,575330.208,981.293,NG  
1287,897792.136,575342.622,981.858,TOPSS  
1288,897798.312,575348.464,981.805,TOPSS  
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1290,897723.225,575425.562,982.269,TOPSS  
1291,897712.625,575416.293,981.576,NG  
1292,897637.335,575493.036,981.259,NG  
1293,897652.391,575507.042,981.888,TOPSS  
1294,897657.412,575511.944,981.811,TOPSS  
1295,897584.067,575596.700,981.986,TOPSS  
1296,897579.262,575592.039,981.921,TOPSS  
1297,897568.123,575581.807,982.524,NG  
1298,897493.456,575662.453,982.088,NG  
1299,897507.214,575673.619,982.265,TOPSS  
1300,897512.889,575679.235,982.017,TOPSS  
1301,897453.315,575747.468,982.028,TOPSS  
1302,897446.368,575741.989,982.028,TOPSS  
1303,897434.031,575730.510,981.787,NG  
1304,897391.634,575772.495,981.397,NG  
1305,897409.847,575785.192,981.604,TOPSS  
1306,897416.329,575790.847,981.692,TOPSS  
1307,901465.471,576745.666,990.589,TOPSS  
1308,901474.020,576747.807,990.515,TOPSS  
1309,901441.435,576739.530,990.363,NG  
1310,901455.056,576838.818,990.613,TOPSS  
1311,901445.230,576837.381,990.373,TOPSS  
1312,901426.804,576832.220,991.335,NG  
1313,901403.466,576946.210,990.864,NG  
1314,901423.026,576950.574,990.364,TOPSS  
1315,901432.156,576953.045,990.572,TOPSS  
1316,901411.158,577051.184,990.705,TOPSS  
1317,901402.747,577049.307,990.550,TOPSS  
1318,901385.119,577046.072,991.217,NG  
1319,901366.725,577141.984,990.868,NG  
1320,901383.857,577146.400,990.677,TOPSS  
1321,901391.560,577148.398,990.752,TOPSS  
1322,901368.096,577258.817,990.763,TOPSS  
1323,901360.667,577256.814,990.590,TOPSS  
1324,901344.942,577252.954,991.019,NG  
1325,901320.991,577361.626,990.241,NG  
1326,901338.127,577365.458,990.731,TOPSS  
1327,901344.597,577367.476,990.838,TOPSS  
1328,901335.448,577417.210,990.385,TOPSS

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1329,901327.523,577415.652,990.393, TOPSS  
1330,901325.474,577415.389,989.853, TOESS  
1331,901304.938,577411.331,990.314, NG  
1332,901294.926,577500.925,990.746, NG  
1333,901310.166,577504.703,990.769, TOPSS  
1334,901317.695,577506.530,990.656, TOPSS  
1335,901300.044,577597.164,990.573, NG  
1336,901290.545,577593.959,990.827, TOPSS  
1337,901273.697,577589.660,990.433, NG  
1338,901251.177,577684.831,990.184, NG  
1339,901271.299,577688.277,990.904, TOPSS  
1340,901280.364,577690.455,990.559, NG  
1341,901254.909,577810.722,990.359, TOPSS  
1342,901242.011,577806.905,990.467, TOPSS  
1343,901222.373,577806.618,990.307, NG  
1344,904886.378,578767.443, 1001.984, TP60"  
1345,904879.794,578766.158, 1001.957, TP60"  
1346,904890.117,578768.350,997.648, HEADWALL  
1347,904876.331,578765.900,997.761, HEADWALL  
1348,904883.660,578765.882,995.387, CONC  
1349,904902.673,578775.929,1005.054, CONC  
1350,904921.030,578779.510, 1004.831, CONC  
1351,904905.147,578764.868,997.905, TOE  
1352,904906.203,578756.377,998.759, TOE  
1353,904892.046,578763.966,997.773, TOE  
1354,904906.984,578746.271, 1004.396, TOP  
1355,904877.747,578744.329,1005.513, TOP  
1356,904863.620,578749.965,1006.364, TOP  
1357,904861.071,578764.964, 1005.477, TOP  
1358,904847.911,578754.688, 1001.947, TOE  
1359,904856.521,578741.654, 1002.055, TOE  
1360,904870.632,578738.898, 1002.071, TOE  
1361,904929.456,578744.964, 1002.387, TOE  
1362,904927.184,578749.782, 1005.064, TOP  
1363,907237.427,577772.869, 1018.726, NG  
1364,907246.881,577798.590, 1017.906, TOPSS  
1365,907319.446,577798.336, 1016.570, TOPSS  
1366,907319.589,577791.457, 1016.723, CLSC  
1367,907319.897,577786.225, 1016.835, OUTSIDESC  
1368,907321.002,577776.173, 1017.003, NG  
1369,907374.211,577785.407, 1016.624, NG  
1370,907374.683,577790.655, 1016.881, OUTSIDESC  
1371,907374.316,577795.431, 1016.880, CLSC  
1372,907375.264,577801.057, 1016.829, TOPSS  
1373,907567.893,577799.572, 1017.105, TOPSS  
1374,907568.353,577794.380, 1017.172, CLSC  
1375,907568.747,577789.967, 1017.189, OUTSIDESC

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1376,907569.372,577782.481,1016.672,NG  
1377,907776.233,577767.471,1005.838,BWFENCE  
1378,907776.502,577777.056,1005.857,TOE  
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1381,907765.528,577822.616,1017.004,CLSC  
1382,907765.606,577827.133,1016.682,TOPSS  
1383,907964.858,577883.280,1016.951,TOPSS  
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1385,907968.548,577873.886,1017.113,OUTSIDESC  
1386,907971.191,577862.955,1016.809,TOP  
1387,907986.490,577825.998,1003.014,TOE  
1388,907986.345,577811.674,1002.415,BWFENCE  
1389,908163.749,577858.990,1009.874,BWFENCE  
1390,908153.503,577904.186,1009.998,TOE  
1391,908148.440,577926.701,1016.967,TOP  
1392,908145.028,577934.508,1017.224,OUTSIDESC  
1393,908143.311,577938.636,1017.270,CLSC  
1394,908141.938,577943.261,1017.098,TOPSS  
1395,908339.243,578016.935,1017.460,TOPSS  
1396,908341.127,578011.894,1017.593,CLSC  
1397,908343.238,578007.415,1017.527,OUTSIDESC  
1398,908345.988,578001.157,1017.476,TOP  
1399,908351.376,577981.684,1012.565,TOE  
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1408,908525.262,578093.834,1017.767,TOPSS  
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1411,908704.740,578164.516,1017.744,OUTSIDESC  
1412,908708.092,578157.413,1017.619,TOP  
1413,908714.015,578145.173,1014.588,TOE  
1414,908743.528,578069.484,1013.254,NG  
1415,908789.653,577980.114,1012.594,BWFENCE  
1416,908870.377,578256.552,1018.627,TOPSS  
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1421,908941.036,578129.997,1013.778,NG  
1422,908996.716,578023.478,1013.254,BWFENCE

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1423,909147.093,578054.820,1015.324,BWFENCEANG  
1424,909148.493,578060.929,1013.198,NG  
1425,909149.669,578147.291,1014.041,NG  
1426,909148.414,578260.362,1015.655,NG  
1427,909153.888,578322.045,1018.149,NG  
1428,909151.802,578350.844,1020.594,OUTSIDESC  
1429,909152.631,578356.626,1020.719,CLSC  
1430,909154.073,578361.937,1020.625,TOPSS  
1431,909059.891,578192.223,1014.070,NG  
1432,909013.150,578286.111,1014.787,NG  
1433,909006.299,578296.861,1015.775,TOE  
1434,909004.744,578312.205,1018.455,TOE  
1435,909002.064,578317.367,1018.685,OUTSIDESC  
1436,909000.062,578321.451,1018.781,CLSC  
1437,908998.150,578324.351,1018.684,TOPSS  
1438,909141.592,578376.892,1007.898,TOESS  
1439,909140.504,578393.629,1007.650,NG  
1440,908984.129,578350.372,1006.652,NG  
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1442,908864.704,578266.653,1006.228,TOESS  
1443,908855.214,578282.822,1005.930,NG  
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1445,908695.578,578183.371,1006.010,TOESS  
1446,908522.052,578104.106,1005.599,TOESS  
1447,908513.896,578121.603,1005.249,NG  
1448,908329.938,578045.852,1004.561,NG  
1449,908335.613,578028.033,1005.128,TOESS  
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1451,908132.328,577973.916,1003.884,NG  
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1454,907762.204,577858.390,1002.764,NG  
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1458,907623.285,577815.603,1005.283,CONC  
1459,907628.685,577816.524,1005.342,CONC  
1460,907629.292,577810.723,1005.516,CONC  
1461,907624.092,577810.012,1005.454,CONC  
1462,907626.713,577810.503,1006.643,INV  
1463,907567.580,577814.589,1003.308,TOESS  
1464,907564.748,577832.933,1002.745,NG  
1465,907379.273,577831.536,1002.522,NG  
1466,907377.376,577816.871,1002.938,TOESS  
1467,907320.956,577825.406,1003.389,TOESS  
1468,907320.328,577839.524,1003.263,NG  
1469,907262.262,577857.269,1003.549,NG

## Stanley Consultants Survey Points

1470,907251.797,577835.611,1005.053,TOESS  
1471,907217.635,575901.048,1017.887,ACHH  
1472,907340.348,586124.658,1022.571,BCHH  
1473,901869.403,581091.557,1010.210,BCHH  
1474,896612.773,581083.570,1000.262,BCHH  
1475,894715.939,573913.745,986.312,NG  
1476,894731.140,573917.398,985.310,TOP  
1477,894755.737,573923.845,977.353,TOE  
1478,894740.315,574020.743,978.800,TOESS  
1479,894747.926,574022.981,978.251,NG  
1480,894767.207,573927.631,977.174,NG  
1481,894720.807,574021.045,985.328,TOPSS  
1482,894705.497,574020.992,986.035,NG  
1483,894693.989,574122.515,985.158,NG  
1484,894712.938,574124.074,985.451,TOPSS  
1485,894728.703,574125.755,979.903,TOESS  
1486,894737.338,574126.808,979.149,NG  
1487,894732.687,574180.162,979.362,NG  
1488,894723.046,574179.261,980.554,TOESS  
1489,894708.561,574178.721,985.547,TOPSS  
1490,894692.217,574177.057,985.197,NG  
1491,894679.465,574284.405,985.380,NG  
1492,894699.921,574285.639,985.959,TOPSS  
1493,894718.462,574287.884,980.093,TOESS  
1494,894726.014,574289.659,979.546,NG  
1495,894721.104,574371.743,978.904,NG  
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1497,894694.291,574367.304,986.111,TOPSS  
1498,894677.151,574365.878,985.663,NG  
1499,894671.876,574461.528,986.392,NG  
1500,894686.069,574464.296,986.807,TOPSS  
1501,894704.719,574465.279,980.274,TOESS  
1502,894714.491,574465.909,978.847,NG  
1503,894706.968,574536.609,979.026,NG  
1504,894701.548,574536.372,979.503,TOESS  
1505,894681.628,574535.690,986.655,TOPSS  
1506,894665.467,574534.035,986.431,NG  
1507,891491.234,572423.767,966.895,TBM  
1508,880926.546,565402.883,965.994,BCHH  
9000,879128.910,567196.980,-0.000,CALC  
9001,879332.210,566965.210,-0.000,CALC  
9000\_9001\_stk,-172.944,0.895,933.082,NG,9000,9001  
9000\_9001\_stk1,-66.000,0.068,934.355,NG,9000,9001  
9000\_9001\_stk2,-9.002,-0.072,933.957,NG,9000,9001  
9000\_9001\_stk3,31.725,0.259,933.536,TOE,9000,9001  
9000\_9001\_stk4,45.924,0.120,940.628,TOP,9000,9001  
9000\_9001\_stk5,96.515,0.286,941.601,NG,9000,9001

## Stanley Consultants Survey Points

9000\_9001\_stk6,210.096,0.186,943.170,NG,9000,9001

9000\_9001\_stk7,333.390,0.228,944.940,NG,9000,9001

1509,880782.185,575808.024,962.019,BCHH

**Agua Fria River Floodplain Re-Delineation  
From Salt/Gila River to New River**

**APPENDIX C.2**  
**Flood Control District of Maricopa County Survey Field Data**

Project information		Coordinate System	
Name:	\\fcdhome1\jro\$\MyDocuments\Trimble Business	Name:	US State Plane 1983
Size:	505 KB	Datum:	NAD 1983 (Conus)
Modified:	6/2/2011 4:29:47 PM (UTC:-7)	Zone:	Arizona Central 0202
Reference number:		Geoid:	GEOID09AZ (Arizona)
Description:	Agua Fria Levee Additional Mapping Survey	Vertical datum:	NAVD 88



Expires 6/30/2013

### Additional Coordinate System Details

Local Site Settings	
Project latitude:	Ground scale factor: 1
Project longitude:	False northing offset: .0000 ft
Project height: 841.434 ft	False easting offset: .0000 ft

### Point List

ID	Northing	Easting	Elevation	Feature Code
100	879015.232	567324.631	933.180	NG
101	879021.121	567316.223	933.485	GB
102	879023.745	567312.780	934.340	GB
103	879072.689	567247.401	934.243	GB
104	879075.977	567242.152	934.894	GB

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105	879078.985	567236.709	934.001	GB
106	879099.136	567207.464	934.951	GB
107	879115.821	567182.129	933.441	NG
108	879129.151	567164.689	934.042	TOE
109	879140.967	567154.539	940.816	TB
110	879159.138	567128.891	941.086	NG
111	879197.029	567092.571	941.744	NG
112	879229.344	567047.071	942.644	NG
113	879296.759	567090.188	943.087	NG
114	879261.382	567132.559	942.137	NG
115	879217.292	567187.030	940.035	TB
116	879210.595	567200.824	934.621	TOE
117	879194.189	567218.868	933.461	GB
118	879186.280	567243.732	933.598	GB
119	879184.140	567252.548	934.498	GB
120	879170.031	567282.532	934.432	GB
121	879165.244	567291.997	933.170	GB
122	879160.466	567298.922	934.677	GB
123	879136.814	567331.941	935.108	NG
124	879119.112	567363.075	935.826	TOE
125	879202.479	567338.644	934.172	NG
126	879214.996	567327.717	934.101	GB
127	879217.197	567325.672	934.564	GB
128	879221.224	567322.456	933.590	GB
129	879228.811	567317.011	933.676	GB
130	879230.976	567315.390	934.671	GB
131	879232.471	567311.980	934.074	GB
132	879249.247	567290.043	934.429	GB
133	879257.610	567276.360	933.888	GB
134	879280.876	567249.197	934.140	NG
135	879295.120	567226.939	935.406	TOE
136	879299.595	567219.422	941.463	TB

137	879346.938	567184.830	941.781	NG
138	879144.117	567231.117	934.883	NG
200	886327.762	573810.909	970.053	TB
201	886327.999	573868.917	970.218	TB
202	886327.758	573887.551	961.416	TOE
203	886330.228	573940.972	960.495	NG
204	886328.765	573998.197	961.967	NG
205	886328.255	574060.098	962.008	NG
206	886328.910	574121.149	962.482	NG
207	886332.994	574191.321	962.565	NG
208	886334.362	574254.771	963.022	NG
209	886373.628	574248.207	960.972	GB
210	886395.939	574243.812	958.380	GB
211	886449.975	574239.799	958.570	GB
212	886473.025	574239.868	963.901	GB
213	886506.435	574238.272	964.714	GB
214	886522.816	574237.482	967.169	TB WALL
215	886520.713	574179.912	968.805	TB WALL
216	886467.839	574174.558	958.781	GB
217	886392.596	574168.032	958.510	GB
218	886370.515	574165.515	960.467	GB
219	886414.560	574103.647	958.832	RP
220	886412.731	574025.695	958.600	RP
221	886519.005	573937.078	968.743	TB WALL
222	886503.176	573936.765	965.073	GB NG
223	886490.681	573936.592	964.761	GB NG
224	886460.837	573936.590	959.175	GB
225	886401.454	573940.809	959.029	GB
226	886383.122	573940.230	962.046	GB
227	886347.394	573943.515	961.904	GB
228	886340.539	573943.368	960.940	GB
229	886321.029	573945.683	960.880	GB

230	886286.515	573945.236	968.214	GB
231	886252.667	573943.623	969.435	TOE RR
232	886240.267	573942.512	972.345	TB RR
233	886229.505	573942.928	972.418	TB RR
234	886229.669	573848.963	972.358	TB RR
235	886201.496	573846.215	962.824	HW
236	886184.560	573846.667	962.783	HW
237	886192.828	573846.902	957.653	INV 42" CP
238	886192.942	573853.030	958.007	TOE
239	886189.850	573852.750	958.220	TOE
240	886199.151	573911.718	959.934	TOE
241	886188.596	573910.239	959.864	TOE
242	886185.762	574001.823	961.663	TOE
243	886201.231	574010.195	961.502	TOE
244	886200.456	574066.918	962.487	TOE
245	886203.979	574067.567	962.066	TOE
246	886209.855	574068.382	966.103	GB
247	886219.461	574071.693	967.147	TOE RR
248	886198.555	574068.719	965.061	GB
249	886187.728	574068.023	965.697	GB
250	886178.056	574069.256	967.846	GB
251	886167.910	574069.141	968.421	GB
252	886164.228	574068.790	969.500	GB
253	886135.352	574069.898	973.722	TB ROAD
254	886135.217	573965.142	974.288	TB ROAD
255	886160.620	573964.068	970.170	GB
256	886163.423	573963.345	968.917	GB
257	886176.881	573963.800	968.148	TB
258	886134.760	573891.218	974.496	TB ROAD
259	886161.390	573887.608	968.687	GB
260	886174.285	573886.675	968.032	TB
261	886174.348	573847.395	968.454	TB

262	886183.360	573837.502	968.549	TB
263	886213.801	573834.672	969.260	TB
264	886214.850	573811.619	969.600	TB
265	886144.654	573810.983	968.952	TB
266	886229.698	573956.713	972.359	TB RR
267	886241.495	573956.516	972.379	TB RR
268	886219.652	573991.526	967.993	GB
269	886205.995	573993.111	966.516	GB
270	886209.264	573958.926	966.422	GB
271	886219.569	573958.440	967.939	GB
272	886209.361	573931.767	960.837	TOE
273	886136.519	574214.163	973.075	TB ROAD
274	886175.541	574211.333	966.643	GB
275	886191.215	574210.160	966.141	GB
276	886211.113	574215.166	964.419	TOE
277	886231.812	574215.218	971.878	TB RR
278	886246.238	574215.432	971.887	TB RR
279	886270.575	574220.100	968.296	GB
280	886272.604	574158.347	969.247	GB
281	886285.978	574080.053	968.049	GB
282	886284.459	573907.998	967.668	GB
283	886252.036	574478.715	971.359	TB RR
284	886262.692	574479.781	969.090	GB
285	886269.781	574479.308	968.531	GB
286	886283.296	574477.288	964.700	GB
287	886309.616	574477.533	964.393	GB
288	886322.294	574476.846	966.228	GB
289	886367.429	574470.081	963.893	GB
290	886410.953	574457.000	957.737	GB
291	886438.298	574455.983	957.734	GB
292	886466.806	574455.285	963.606	GB
293	886508.408	574460.388	963.856	GB

294	886521.221	574463.013	967.347	GB
295	886527.183	574461.665	967.354	WALL
296	886439.458	574559.139	956.362	RP
297	886192.490	573800.010	956.165	INV 42" CP
298	886150.513	573797.601	955.890	TOE
299	886215.473	573797.887	957.394	TOE
300	886282.396	573797.512	956.879	TOE

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**Agua Fria River Floodplain Re-Delineation  
From Salt/Gila River to New River**

**APPENDIX D**

**Hydrologic Analysis Supporting Documentation**

AQUA FRIA RIVER FLOOD CONTROL PROJECT  
ANALYSIS OF SIDE DRAINAGE REQUIREMENTS  
BUCKEYE ROAD TO 1500 FEET SOUTH OF INTERSTATE 10

Prepared for:

Flood Control District of Maricopa County  
3335 West Durango  
Phoenix, Arizona 85009

Prepared by:

Simons, Li & Associates, Inc.  
1225 East Broadway Road, Suite 200  
Tempe, Arizona 85282

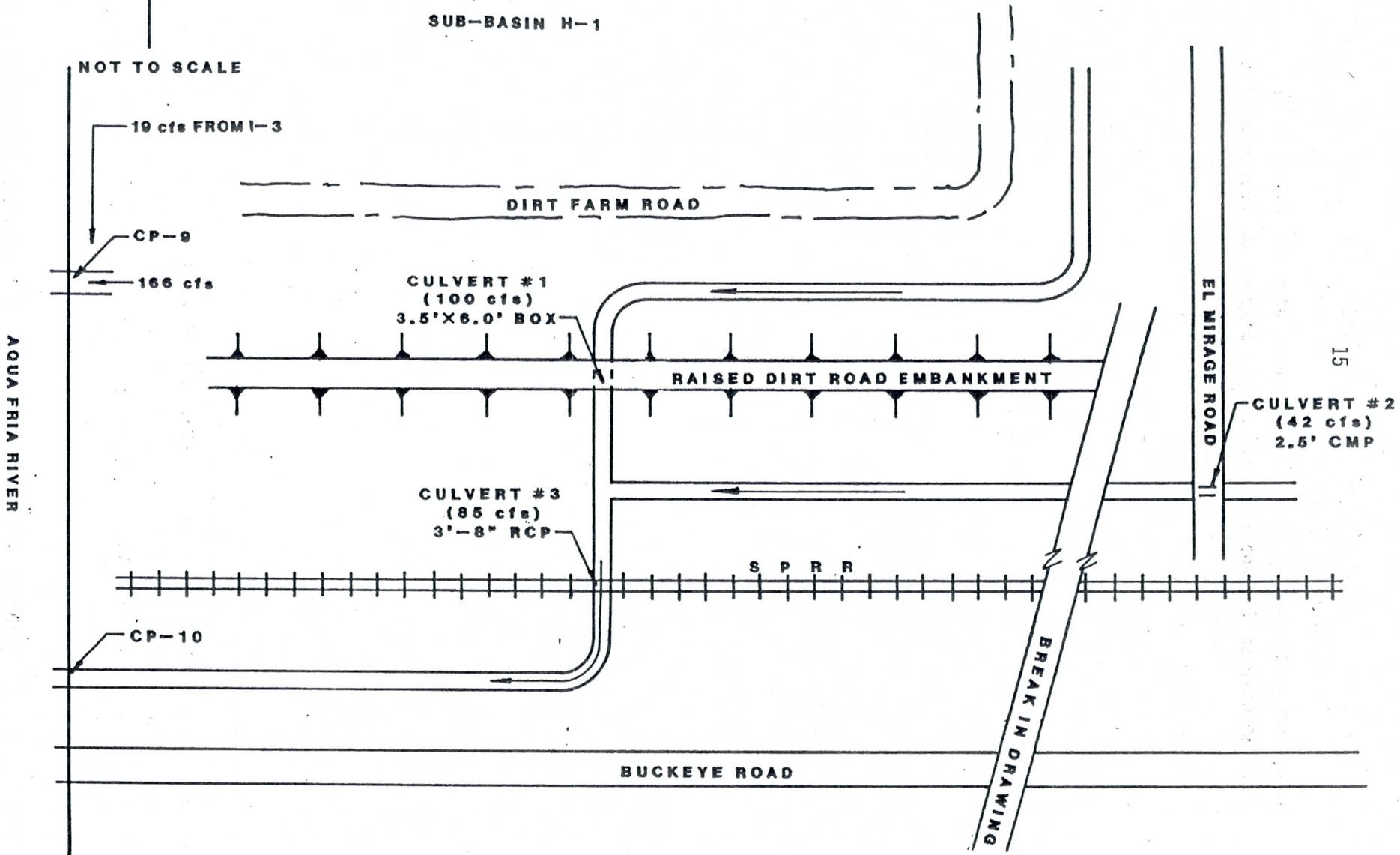
January 30, 1985



FCD FILE :

LAF 3.2

**SCHEMATIC USED FOR DRAINAGE  
ANALYSIS ALONG BUCKEYE ROAD,  
SPRR, AND SUB-BASIN H-1, H-2, N-1**



**FIGURE 6**

Culvert #2 was next analyzed as a control point in estimating the amount of water being conveyed to culvert #3 via the open channel between the SPRR and the raised road embankment to the north. Assuming inlet control at culvert #2, the maximum discharge was estimated to be 42 cfs. This value was then compared to the capacity at culvert #3 which was found to be 85 cfs. Since culvert #3 has a greater capacity than culvert #2, there should be no appreciable reverse flow through culvert #1 which would add to the runoff being handled by the proposed outlet for sub-basin I-S (CP-9).

The outlet (CP-10) for the runoff being discharged through culvert #3 was sized on the assumption that the maximum discharge through culvert #3 was 85 cfs. This assumption was based on an inlet control calculation with a maximum available headwater depth of 5.17 feet. Any additional runoff that may enter the channel between the SPRR and Buckeye Road west of culvert #3 would merely pond in the depression between the railroad and highway. The extra head provided by this additional runoff would serve to increase the discharge through the levee outlet. As a result, the proposed drainage outlet between the railroad and highway was designed for 85 cfs on the assumption of a headwater depth of 4.94 feet. Should water pond to the top of the levee at this point, a headwater depth of 13.36 feet would exist which would produce a culvert discharge of 175 cfs. Beyond this depth the levee crest would be overtopped but not the railroad or highway since they are both higher than the levee crest at this location.

The design of the local drainage culverts at each CP were based on inlet control. The inlets were designed so that the headwater depths required to pass the peak discharge would not pond water higher than the elevation of the 100-year water surface profile for existing conditions on the Aqua Fria River. In order to meet this criteria, drop inlets were required at CP-1, 2, 3, 4, and 7. Depending upon specific conditions at each location, the invert of the culvert outlets were set at 1 to 4 feet above the channel bed of the river.

The culvert capacities were determined using a nomograph for concrete pipe culverts from Hydraulic Engineering Circular No. 5, Bureau of Public Roads. An investigation was made to determine the impact that flap gates have on reducing the capacity of pipe culverts. Research conducted by the Hydraulic Laboratory of Iowa State University indicates that the head loss through flap gates is so small that it has little effect on the discharge

capacity of drainage outlets. A small allowance was made for this additional head loss by sizing the culvert capacities for a "projecting groove end" rather than a "groove end with headwall" which is more representative of actual design conditions.

Because of anticipated installation problems resulting from warped levee slopes near the bridges, flap gates were not proposed for the outlets of culverts at CP-1a and CP-10. Reverse flow at these locations will only pond water between the SPRR and Buckeye Road embankments. These ponding areas are very small and should not create any problems at these locations. A summary of the recommended culvert sizes for each CP is shown in Table 3.

In summary, the assumptions used in the hydrologic analysis and drainage outlet design are considered conservative. No consideration was given to the possible detention capacity that many of the bermed, agricultural fields may provide for rainfall runoff. Inlet control was also assumed for the analysis of the three culverts upstream of CP-10 (Figure 6). Again, this is conservative since a tailwater will probably be present downstream of the 3 culverts which would reduce the discharge from that obtained assuming inlet control.

R-1/R634



**Agua Fria River Floodplain Re-Delineation  
From Salt/Gila River to New River**

**APPENDIX E**

**Hydraulic Analysis Supporting Documentation**

**Agua Fria River Floodplain Re-Delineation  
From Salt/Gila River to New River**

**APPENDIX E.1**  
**Effective Model & Documentation**

Effective Model Output  
AGUAFRIA.OUT

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1*****
*****
* HEC-2 WATER SURFACE PROFILES *
* *
* *
* Version 4.6.2; May 1991 *
* *
* *
* RUN DATE 22MAR11 TIME 10:59:26 *
* *
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* U.S. ARMY CORPS OF ENGINEERS
* HYDROLOGIC ENGINEERING CENTER
* 609 SECOND STREET, SUITE D
* DAVIS, CALIFORNIA 95616-4687
* (916) 756-1104

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X X XXXXXXX XXXXX XXXXXXX

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PAGE 1

THIS RUN EXECUTED 22MAR11 10:59:26

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*****
HEC-2 WATER SURFACE PROFILES
Version 4.6.2; May 1991
*****

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T1 AGUA FRIA RIVER FLOODPLAIN DELINEATION RE-STUDY
T1 PREPARED FOR THE FLOOD CONTROL DISTRICT OF MARICOPA COUNTY (FCDMC #95-05)
T1 PREPARED BY COE & VAN LOO CONSULTANTS, INC. (CVL #95-0067-01)
T2 AGUA FRIA RIVER, GILA RIVER TO THE NEW WADDELL DAM
T3 100-YEAR EVENT EXISTING CONDITION FILE NAME - AGUAFRIA

```

J1	ICHECK	INQ	NINV	IDIR	STRT	METRIC	HVINS	Q	WSEL	FQ
	0	2	0	0	0.003	0	0	0	916.39	0
J2	NPROF	IPLLOT	PRFVS	XSECV	XSECH	FN	ALLDC	IBW	CHNIM	ITRACE
	1	0	-1	0	0	0	-1	0	0	15
J3	VARIABLE CODES FOR SUMMARY PRINTOUT									
	38	43	1	8	3	2	26	5	39	53
	4	54	37		200					

NON-STRUCTURAL DIKES BETWEEN SECTIONS 0.16 AND 1.33 AT RIGHT OVERBANK ARE ASSUMED NON-EFFECTIVE.

NC	ET	NH	NH	QT
	0.16		7.1	.1
	5	.10	9030	.045
	15459			9720
	2	50900	50900	.035

AGUA FRIA DETAILED FDR PREPARED FOR THE FLOOD CONTROL DISTRICT OF MARICOPA COUNTY BY COE & VAN LOO CONSULTANTS, INC., 1996. THE CONTROL LINE ON THE MAIN CHANNEL OF THE AGUA FRIA RIVER IS STATION 10,000. ALL SECTIONS ARE STATIONED IN RIVER MILES FROM THE CONFLUENCE WITH THE GILA RIVER. ENCROACHMENT CARDS (ET) WERE USED IN SOME CASES TO BETTER MODEL DEAD OR NON-EFFECTIVE FLOW AREAS. CONSEQUENTLY, "SSTA" AND "ENDST" DO NOT REPRESENT THE ACTUAL FLOODING LIMITS, AND THE DELINEATION WAS ESTABLISHED BASED ON THE CROSS SECTION POINT ELEVATIONS AND THE TOPOGRAPHY. IN SOME CASES "TOPWID" DOES NOT REPRESENT THE FULL WIDTH OF THE FLOODPLAIN DUE TO NON-EFFECTIVE FLOW AREAS OR LOW ISLANDS WITHIN THE FLOODPLAIN. THE RUN WAS STARTED BASED SLOPE-AREA METHOD. THE HIGH WATER IN THE GILA RIVER WAS NOT USED TO START THE RUN, DUE TO THE DIFFERENCE IN THE TIME TO PEAK.

1 22MAR11 10:59:26

PAGE 2

ENCROACHMENTS ARE PLACED ON THE UPSTREAM SECTION OF THE BRIDGES TO REPRESENT THE 1:1 CONTRACTION OF FLOW. IN ADDITION, ENCROACHMENTS ARE PLACED ON THE DOWNSTREAM SECTION OF THE BRIDGES TO REPRESENT THE 4:1 EXPANSION OF FLOW.

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*****
***** BEGIN NONSTRUCTURAL DIKES *****
***** CONSIDERED NONEFFECTIVE *****
*****

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X1	0.16	52	9720	10184	0	0	0
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Effective Model Output  
AGUAFRIA.OUT

GR	924.4	4925.0	924.2	5199.0	921.8	5600.0	919.5	5760.0	919.4	5959.0
GR	920.9	6245.0	920.8	6516.0	919.3	6554.0	919.8	6850.0	919.6	7271.0
GR	920.5	7535.0	919.6	8000.0	917.6	8136.0	917.4	8339.0	912.3	8356.0
GR	917.2	8376.0	916.4	8991.0	916.0	9030.0	914.0	9212.0	911.6	9231.0
GR	913.2	9494.0	911.2	9620.0	911.8	9720.0	910.7	10000.0	909.7	10120.0
GR	909.6	10136.0	921.6	10167.0	923.0	10184.0	913.7	10213.0	913.7	10477.0
GR	917.1	10590.0	916.6	10873.0	910.5	10909.0	910.5	11042.0	915.2	11068.0
GR	912.1	11265.0	911.5	11500.0	911.5	11516.0	908.3	11664.0	910.4	11830.0
GR	916.1	11911.0	914.1	12098.0	914.9	12628.0	922.1	12652.0	922.7	12725.0
GR	916.5	12758.0	916.8	13671.0	916.2	14363.0	917.2	14971.0	917.8	15391.0
GR	913.5	15403.0	920.3	15459.0						

ET	0.25		7.1				9250	11600		
NH	5	.10	8960	.045	9958	.035	10230	.06	10650	.10
NH	15692									
X1	0.25	34.0	9958	10230	505	480	495			
GR	922.0	5566.0	922.0	6553.0	918.5	7867.0	919.0	8256.0	912.7	8264.0
GR	912.7	8284.0	917.8	8296.0	916.9	8960.0	916.8	9040.0	913.2	9109.0
GR	913.5	9486.0	913.5	9620.0	913.5	9958.0	911.1	9972.0	911.1	10000.0
GR	910.9	10130.0	910.9	10151.0	922.5	10230.0	916.6	10298.0	916.6	10396.0
GR	914.0	10454.0	915.1	10650.0	915.4	10701.0	912.8	10725.0	915.1	11054.0
GR	915.5	12126.0	915.7	12846.0	920.7	12871.0	920.7	12921.0	917.2	12948.0
GR	917.5	13769.0	918.6	14680.0	918.1	15619.0	920.7	15692.0		

ET	0.35		7.1				9130	11690		
NH	4	.10	8850	.045	9965	.035	10223	.10	17880	
X1	0.35	35.0	9965	10223	485	485	485			
GR	926.3	3975.0	925.0	4440.0	924.4	4533.0	924.4	5087.0	923.2	5581.0
GR	920.8	7250.0	918.6	7964.0	919.2	8280.0	913.2	8291.0	913.2	8307.0
GR	918.8	8317.0	916.9	8850.0	916.1	9069.0	913.9	9084.0	915.3	9474.0
GR	915.2	9640.0	915.1	9965.0	911.8	9991.0	911.8	10000.0	911.4	10140.0
GR	911.4	10156.0	923.3	10223.0	916.4	10256.0	917.2	11060.0	915.5	11078.0
GR	916.2	12132.0	916.6	12355.0	918.8	12420.0	918.9	13457.0	918.8	14308.0
GR	919.2	15650.0	921.2	16350.0	921.8	16820.0	922.4	17200.0	922.7	17880.0

ET	0.44		7.1				8970	11640		
NH	4	.10	8300	.045	9798	.035	10420	.10	17640	
X1	0.44	44.0	9798	10420	520	500	505			
GR	927.5	3107.0	925.0	4575.0	922.8	5984.0	921.8	6974.0	920.3	7816.0
GR	923.1	7847.0	923.3	7915.0	919.1	7942.0	919.1	7995.0	923.7	8029.0
GR	919.5	8152.0	918.5	8300.0	916.2	8640.0	915.1	8999.0	916.8	9023.0
GR	916.7	9710.0	916.7	9798.0	913.9	9815.0	913.5	9842.0	912.8	10000.0
GR	917.6	10016.0	916.8	10120.0	916.2	10201.0	917.0	10263.0	917.7	10313.0
GR	917.7	10385.0	925.2	10420.0	917.7	10455.0	917.8	11076.0	920.3	11103.0
GR	916.9	11133.0	916.4	11365.0	919.1	11391.0	918.7	12229.0	918.8	12650.0

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GR	920.6	12691.0	919.8	12785.0	919.6	13644.0	920.2	14200.0	920.4	14355.0
GR	921.0	16110.0	921.8	16630.0	922.9	17240.0	924.0	17640.0		
ET	0.54		7.1				8920	11540		
NH	5	.10	8490	.045	9904	.035	10199	.05	10549	.10
NH	16800									
X1	0.54	36.0	9904	10199	530	495	505			
GR	928.1	3050.0	927.2	4613.0	926.1	5092.0	927.1	5206.0	924.6	6382.0
GR	922.3	6916.0	924.4	6951.0	918.5	6971.0	918.5	6993.0	925.0	7013.0
GR	921.6	7072.0	921.2	8124.0	920.0	8490.0	919.5	8647.0	916.2	8667.0
GR	918.0	8997.0	917.8	9446.0	917.4	9720.0	917.2	9904.0	913.7	9926.0
GR	914.0	10000.0	914.4	10070.0	914.5	10097.0	927.5	10199.0	917.5	10248.0
GR	919.3	10515.0	925.8	10549.0	918.7	10598.0	918.6	11525.0	920.7	12024.0
GR	921.0	13063.0	921.1	14220.0	921.2	15038.0	921.8	15800.0	923.0	16350.0
GR	924.0	16800.0								

ET	0.63	9.1	7.1				8970	11440	6600	16199
NH	5	.10	8670	.045	9888	.035	10209	.05	10644	.10
NH	16200									
X1	0.63	36.0	9888	10209	525	490	505			
GR	927.8	3220.0	928.7	4462.0	927.0	5328.0	924.8	6127.0	923.4	6520.0
GR	925.1	6530.0	925.1	6553.0	917.7	6571.0	926.5	6600.0	923.7	6645.0
GR	923.1	7426.0	922.5	8068.0	921.2	8670.0	921.1	8772.0	917.5	8831.0
GR	920.1	9149.0	920.4	9522.0	919.9	9740.0	919.6	9888.0	915.7	9908.0
GR	916.1	10000.0	916.0	10095.0	929.0	10209.0	917.1	10273.0	916.6	10424.0
GR	919.7	10448.0	920.7	10644.0	926.6	10667.0	919.1	10704.0	921.3	11646.0
GR	921.5	12511.0	921.7	13595.0	921.7	14582.0	923.3	15500.0	923.8	15950.0
GR	925.0	16200.0								

ET	0.73		7.1				8980	11280		
NH	5	.10	8800	.045	9917	.035	10162	.05	10655	.10
NH	15560									
X1	0.73	39.0	9917	10162	510	490	500			
GR	926.5	3285.0	926.3	3986.0	925.6	4737.0	925.2	5415.0	925.6	5760.0
GR	925.6	5797.0	925.7	5889.0	925.7	5945.0	924.5	6306.0	924.5	7206.0
GR	924.3	8340.0	921.6	8530.0	921.3	8800.0	921.1	8982.0	919.1	8999.0
GR	918.6	9126.0	921.0	9195.0	920.8	9760.0	920.0	9917.0	917.8	9927.0
GR	917.9	10000.0	916.9	10087.0	919.0	10100.0	928.8	10162.0	919.2	10205.0
GR	917.0	10479.0	919.8	10521.0	918.9	10591.0	928.7	10655.0	919.2	10697.0
GR	919.2	10771.0	922.2	10794.0	921.6	11725.0	922.6	11783.0	924.5	12394.0
GR	924.5	13563.0	924.0	14000.0	924.3	15050.0	926.0	15560.0		

ET	0.83		7.1				8983	11150		
NH	5	.10	8920	.045	9925	.035	10128	.05	10717	.10
NH	14828									
X1	0.83	29.0	9925	10128	495	495	495			

Effective Model Output  
AGUAFRIA.OUT

GR	928.3	3800.0	925.2	5150.0	925.1	6300.0	925.2	8028.0	922.1	8616.0
GR	921.7	8920.0	921.7	8934.0	920.2	8952.0	921.1	9120.0	921.8	9540.0
GR	921.7	9770.0	920.9	9925.0	918.3	9940.0	918.5	10000.0	917.6	10060.0
GR	917.3	10080.0	925.9	10128.0	918.7	10150.0	918.8	10277.0	922.5	10302.0
GR	923.1	10717.0	929.2	10742.0	922.6	10778.0	924.3	11882.0	924.4	12871.0
GR	925.2	14360	928.0	14650	932.0	14700	932.0	14828		

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ET	0.92		7.1				9100	11130		
NH	5	.10	8330	.045	9614	.035	10222	.05	10944	.10
NH	14280									
X1	0.92	32.0	9614	10222	445	440	440			
GR	928.0	5200.0	925.6	5350.0	925.9	6388.0	928.2	6415.0	925.9	7213.0
GR	926.8	8231.0	926.4	8330.0	925.3	8450.0	924.2	8611.0	924.2	9039.0
GR	925.2	9078.0	920.8	9108.0	921.1	9200.0	922.3	9239.0	923.3	9614.0
GR	922.5	9720.0	920.9	9922.0	919.3	10000.0	919.8	10150.0	919.9	10172.0
GR	930.7	10222.0	920.6	10256.0	924.9	10397.0	923.9	10903.0	929.9	10922.0
GR	930.0	10944.0	923.0	10982.0	924.5	12062.0	924.5	12500	926.3	13900
GR	928.0	14100	931.8	14280						

ET	1.01		7.1				9300	11250		
NH	5	.10	8490	.045	9682	.035	10471	.05	11284	.10
NH	14000									
X1	1.01	35.0	9682	10471	440	440	440			
GR	928.9	4205.0	928.5	5661.0	929.2	6721.0	928.4	7602.0	928.7	8490.0
GR	928.7	8566.0	928.2	8695.0	928.3	8740.0	928.5	9048.0	928.6	9151.0
GR	928.8	9185.0	922.0	9235.0	921.8	9300.0	921.4	9400.0	924.5	9437.0
GR	924.9	9682.0	921.5	10000.0	921.2	10380.0	921.2	10405.0	931.4	10471.0
GR	924.0	10505.0	924.0	10677.0	924.0	10694.0	924.0	10715.0	922.9	10733.0
GR	923.6	10830.0	929.5	10849.0	924.2	10867.0	925.3	11259.0	930.4	11284.0
GR	930.4	11298.0	924.4	11319.0	924.6	12194.0	929.7	13800	932.0	14000

ET	1.10		7.1				9450	11220		
NH	5	.10	8600	.045	9719	.035	10678	.05	11128	.10
NH	13600									
X1	1.10	37.0	9719	10678	500	470	490			
GR	929.3	6000.0	930.4	6858.0	929.4	7741.0	929.3	8585.0	929.3	8600.0
GR	929.6	8801.0	928.2	9000.0	931.4	9071.0	919.5	9267.0	920.8	9325.0
GR	923.6	9368.0	924.3	9660.0	923.6	9700.0	923.2	9719.0	922.5	10000.0
GR	923.1	10141.0	923.0	10171.0	923.0	10387.0	923.0	10419.0	923.0	10556.0
GR	923.0	10595.0	934.3	10678.0	925.5	10729.0	924.0	10913.0	924.0	10941.0
GR	924.0	10966.0	924.7	11005.0	927.9	11017.0	927.9	11033.0	924.6	11128.0
GR	929.4	11150.0	925.5	11188.0	925.5	11400.0	925.6	11660.0	926.3	12105.0
GR	928.0	13150	930.3	13600						

ET	1.17		7.1				9400	11020		
NH	5	.10	8500	.045	9917	.035	10654	.05	11220	.10
NH	13150									
X1	1.17	25.0	9917	10654	560	490	540			
GR	932.2	6215.0	929.9	7229.0	929.9	7805.0	929.7	8500.0	929.7	8639.0
GR	926.5	8784.0	927.1	9032.0	928.5	9439.0	926.8	9778.0	927.2	9917.0
GR	923.7	9929.0	923.6	9940.0	924.3	10000.0	923.6	10113.0	924.3	10142.0
GR	924.3	10608.0	926.6	10620.0	933.0	10654.0	924.0	10704.0	927.0	11220.0
GR	927.3	11266.0	926.6	11765.0	926.8	12280.0	930.3	13060	934.0	13150

ET	1.25		7.1				9200	10700		
NH	5	.10	8340	.045	9974	.035	10571	.05	11240	.10
NH	13000									

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X1	1.25	24.0	9974	10571	480	490	485			
GR	933.2	6235.0	931.2	6887.0	932.2	8114.0	932.2	8340.0	932.2	8429.0
GR	927.9	8531.0	930.3	8831.0	927.5	9204.0	930.3	9306.0	929.1	9974.0
GR	926.2	9990.0	924.4	10000.0	924.4	10533.0	933.6	10571.0	924.4	10594.0
GR	924.4	10702.0	929.8	10742.0	930.1	11083.0	929.4	11240.0	928.7	11410.0
GR	928.5	12013.0	930.4	12109.0	936.0	12500	940.0	13000		

ET	1.33		7.1				8853	10470		
NH	5	.10	8120	.045	9911	.035	10456	.05	11200	.10
NH	12490									

\*\*\*\*\*  
\*\*\*\* END NONSTRUCTURAL DIKES \*\*\*\*\*  
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X1	1.33	32.0	9911	10456	485	500	495			
GR	934.6	6000.0	933.3	6025.0	932.9	6490.0	931.0	6748.0	931.3	7154.0
GR	931.8	7239.0	933.2	7837.0	934.0	8038.0	931.1	8083.0	930.0	8120.0
GR	929.8	8339.0	931.4	8777.0	929.3	8916.0	931.1	8945.0	929.8	9282.0
GR	929.1	9911.0	927.0	9920.0	927.0	10000.0	925.9	10122.0	925.5	10364.0
GR	932.0	10456.0	925.5	10490.0	931.1	10701.0	931.6	11006.0	930.6	11200.0
GR	930.4	11242.0	934.9	11261.0	931.9	11306.0	933.2	11377.0	934.8	11409.0
GR	936.3	12061.0	941.3	12490.0						

NON-STRUCTURAL DIKES BETWEEN SECTIONS 1.40 AND 2.10 IN LEFT OVBANK  
ARE ASSUMED NON-EFFECTIVE.

ET	1.40		7.1				8550	10306		
NC	.045	.05	.035							
X1	1.40	26.0	9748	10305	430	485	475			
GR	935.7	5935.0	932.0	6523.0	934.9	7105.0	934.4	7578.0	935.1	7675.0
GR	938.3	7684.0	938.3	7694.0	932.6	7717.0	934.2	8141.0	932.3	8517.0
GR	932.0	8913.0	931.6	9748.0	929.1	9770.0	929.0	9876.0	928.8	9957.0

Effective Model Output  
AGUAFRIA.OUT

GR	927.6	10000.0	927.1	10285.0	935.2	10305.0	927.9	10330.0	931.0	10380.0
GR	931.7	10500.0	932.0	10717.0	935.2	10937.0	936.6	11245.0	938.0	11327.0
GR	940.0	11836.0								

ET	1.48		7.1				8370	10280		
X1	1.48	23.0	9441	10279	450	520	505			
GR	939.0	6000.0	934.8	6383.0	932.5	6699.0	933.5	7062.0	936.6	7336.0
GR	939.9	7347.0	939.9	7360.0	932.9	7434.0	934.1	7639.0	933.9	8044.0
GR	932.9	8368.0	933.5	8794.0	933.2	9118.0	932.9	9441.0	932.9	9799.0
GR	927.3	9816.0	927.5	10000.0	926.7	10206.0	932.5	10237.0	933.3	10279.0
GR	934.5	10343.0	945.5	10436.0	946.7	10552.0				

ET	1.56		7.1				8330	10173		
X1	1.56	32	9493.5	10172	370	515	495			
GR	940.0	6400.0	935.8	6507.0	932.7	6583.7	933.0	6879.4	934.8	7130.2
GR	940.4	7141.1	940.4	7158.6	934.3	7172.1	932.3	7320.7	933.7	7714.5
GR	932.0	7797.1	933.1	7911.0	933.5	8292.1	933.5	8654.4	933.2	8792.3
GR	932.8	9081.8	930.4	9135.4	929.8	9202.0	932.2	9220.0	932.1	9238.3
GR	930.8	9250.5	930.8	9268.2	932.2	9278.3	932.2	9493.5	926.5	9504.2
GR	926.6	9651.5	926.3	10000.0	926.1	10145.1	939.0	10172.0	943.2	10582.1
GR	943.8	10849.4	948.4	11118.0						

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ET	1.64		7.1				8360	10312		
X1	1.64	30	9224.4	10311.3	380	540	510			
GR	942.5	5971.0	942.5	6431.1	938.5	6466.5	935.9	6871.7	942.5	6885.4
GR	942.5	6899.0	934.6	6916.1	933.6	7307.5	934.6	7599.0	932.1	7650.5
GR	934.5	7769.0	934.5	7989.3	932.9	8037.6	934.8	8150.0	934.6	8543.2
GR	934.5	8779.8	934.2	8987.7	931.8	9030.6	934.2	9056.7	934.0	9213.9
GR	931.3	9224.4	931.3	9368.2	928.0	9380.9	928.0	9560.3	927.9	10000.0
GR	928.4	10286.6	935.2	10311.3	938.5	10541.3	950.8	10987.3	952.7	11328.0

ET	1.71		7.1				8350	10285		
X1	1.71	44	9091	10284.4	370	525	495			
GR	940.9	5684.9	943.3	5808.0	945.3	6004.6	945.1	6078.9	947.4	6100.1
GR	947.4	6117.9	939.1	6148.7	948.7	6187.8	948.6	6226.4	934.0	6296.9
GR	936.8	6795.4	942.6	6807.8	942.6	6816.3	935.2	6833.2	933.6	7016.1
GR	935.7	7029.0	935.7	7052.6	932.4	7065.5	932.0	7135.0	934.3	7164.7
GR	934.3	7198.3	931.9	7209.5	934.6	7333.9	933.3	7541.5	933.4	7601.4
GR	936.1	7704.9	936.0	8010.3	935.3	8305.9	935.8	8591.1	935.4	8888.0
GR	935.8	9091.0	933.0	9104.6	933.1	9230.9	931.1	9247.7	929.7	9534.8
GR	928.2	9542.9	928.2	9966.4	928.2	10000.0	930.4	10058.7	930.5	10277.8
GR	935.9	10284.4	941.2	10511.3	951.5	11351.7	952.3	11442.6		

ET	1.79		7.1				8260	10253		
X1	1.79	40	8982.8	10252.2	270	540	500			
GR	945.4	5859.7	948.0	6020.8	951.5	6030.4	940.6	6171.9	937.6	6183.7
GR	938.7	6195.5	938.4	6217.5	935.8	6244.4	936.4	6656.1	941.8	6670.9
GR	941.8	6684.7	935.8	6696.9	936.3	6796.0	944.5	6807.6	944.5	6816.2
GR	936.1	6836.1	937.4	7002.1	935.9	7226.7	934.4	7523.2	936.2	7537.5
GR	937.1	7837.2	936.9	8019.2	935.7	8203.0	936.5	8507.4	936.8	8749.1
GR	936.4	8982.8	933.6	8991.6	932.4	9293.8	930.3	9388.0	932.2	9425.8
GR	932.4	9540.5	929.7	9571.1	929.2	9685.9	929.2	9831.1	930.7	10000.0
GR	929.2	10224.9	936.3	10252.2	943.2	10542.3	948.2	10996.3	952.7	11389.3

ET	1.87	9.1	7.1				8190	10051	6000	10051
***** BEGIN WEST BANK LEVEE *****										
X1	1.87	35	8841.4	10050.0	200	510	475			
GR	945.0	5635.3	949.8	5891.6	951.8	5966.3	949.9	6124.7	938.3	6184.0
GR	936.7	6867.9	943.5	6888.1	943.6	6903.7	937.3	6922.7	934.8	6963.8
GR	936.8	6986.5	938.0	7150.6	936.9	7313.3	935.6	7357.9	934.8	7508.3
GR	938.0	7648.7	937.8	7959.1	936.4	8126.1	937.4	8428.2	938.1	8746.2
GR	934.4	8841.4	932.4	9098.4	932.1	9275.0	932.9	9528.1	931.4	9544.2
GR	931.4	9822.4	931.1	10000.0	931.2	10050.0	930.8	10250.6	938.7	10268.5
GR	944.2	10663.4	948.3	10701.7	947.3	10902.9	951.2	11290.4	953.2	11505.5

BEGIN LEVEE RIGHT BANK SECTION 1.94

ET	1.94		7.1				8210	10063.3		
X1	1.94	30	8654.9	10063.3	200	540	520			
GR	950.2	5544.2	945.9	5742.0	949.8	5887.9	953.0	6033.9	943.4	6166.0
GR	940.8	6245.9	938.2	6256.8	936.8	6547.8	937.4	6963.8	944.3	6982.4
GR	944.3	6999.6	937.0	7022.3	935.9	7064.7	938.0	7095.2	938.7	7342.6
GR	938.4	7430.6	936.1	7462.5	936.5	7591.9	938.8	7667.5	938.7	7987.0
GR	936.9	8041.7	937.8	8375.2	938.2	8654.9	933.9	8673.3	934.3	9158.5

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GR	934.2	9446.2	932.3	9835.8	932.6	10000.0	934.0	10054.1	944.5	10063.3
ET	2.02		7.1				8410	10078		
X1	2.02	31	8839.4	10077.3	220	475	470			
GR	950.0	5981.1	948.6	6066.6	951.6	6121.6	954.7	6293.7	955.1	6434.3
GR	940.7	6514.7	939.9	6533.9	937.1	6557.3	936.4	6934.6	937.1	7244.1
GR	944.6	7260.1	944.6	7278.4	937.0	7304.1	936.3	7340.1	938.6	7388.3
GR	938.4	7687.8	936.3	7711.0	938.5	7824.6	938.8	7961.0	937.2	8390.4
GR	938.4	8544.9	938.1	8839.4	935.2	8854.5	935.2	9121.5	935.4	9418.2
GR	934.2	9860.0	932.7	9918.6	933.3	10000.0	934.5	10062.4	944.8	10077.3
GR	944.8	10079.1								

Effective Model Output  
AGUAFRIA.OUT

ET	2.10		7.1				8640	10166		
X1	2.10	28	8997.7	10165.4	280	450	440			
GR	954.3	6270.6	954.6	6362.7	952.8	6418.8	951.0	6489.6	954.2	6636.6
GR	951.4	6705.4	945.5	6741.6	940.3	6947.5	938.4	7284.2	937.8	7594.7
GR	944.1	7608.1	944.1	7625.3	938.3	7638.4	936.3	7695.9	939.4	7783.5
GR	940.7	7910.0	938.4	8141.9	938.5	8570.4	939.6	8855.2	938.7	8997.7
GR	937.1	9019.7	935.8	9320.1	937.1	9621.2	934.3	9638.9	934.3	10000.0
GR	935.2	10152.0	946.7	10165.4	946.7	10172.6				

ET	2.18		7.1				8920	10405.1		
X1	2.18	19	9390.6	10405.1	280	420	400			
GR	952.1	6729.9	952.2	6849.9	950.0	6882.9	950.4	6998.0	955.5	7118.0
GR	940.2	7376.3	939.4	7878.5	939.9	8327.0	938.5	8469.2	939.7	8768.5
GR	939.3	9030.0	938.3	9390.6	938.1	9626.3	936.5	9650.4	934.5	9836.0
GR	934.4	10000.0	935.3	10117.5	935.3	10391.1	947.1	10405.1		

ET	2.25		7.1				9000	10365.7		
X1	2.25	23	9684.2	10365.7	260	510	490			
GR	954.6	6973.8	953.6	7063.0	957.3	7084.1	945.1	7408.7	953.4	7513.4
GR	951.1	7578.6	940.4	7676.3	940.6	8186.8	940.0	8478.1	941.4	8489.6
GR	940.9	8645.7	938.5	8690.0	940.7	8962.5	940.0	9279.9	938.3	9684.2
GR	936.0	9696.4	937.2	9756.3	935.8	9964.0	935.3	10000.0	935.0	10117.0
GR	936.7	10131.4	936.9	10351.5	949.3	10365.7				

ET	2.33		7.1				8980	10339.4		
X1	2.33	20	9548.8	10339.4	380	490	490			
GR	955.8	7045.3	958.5	7085.4	954.0	7227.0	942.3	7809.4	943.1	7838.7
GR	941.1	7934.6	940.7	8401.7	939.5	8650.4	941.2	8697.6	941.3	8936.8
GR	940.0	8954.8	940.1	9280.5	940.3	9548.8	938.3	9698.8	937.7	9922.9
GR	936.4	9938.9	936.2	10000.0	936.2	10087.5	938.9	10316.6	949.6	10339.4

ET	2.41		7.1				9180	10790		
X1	2.41	20	9735.9	10550.0	350	500	500			
GR	962.0	7263	959.3	7518.0	954.9	7587.2	952.7	7738.2	952.5	7876.7
GR	951.3	8043.5	941.5	8423.9	941.8	8908.1	941.5	9149.3	942.2	9516.6
GR	941.6	9735.9	937.9	9829.9	937.4	10000.0	940.4	10258.0	940.4	10367.9
GR	938.5	10449.1	940.6	10550	942.4	10632.6	941.6	10800.0	951.1	10810.0

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ET	2.51		7.1				9320	10840		
X1	2.51	25	9609.3	10760.0	510	345	495			
GR	962.2	7481	961.4	7587.5	966.2	7682.9	960.1	7980.9	964.0	8029.4
GR	955.2	8101.8	958.1	8206.7	952.8	8303.6	954.2	8345.7	952.1	8457.0
GR	947.9	8509.0	952.2	8540.8	943.2	8651.5	942.6	9047.3	941.3	9179.8
GR	942.9	9211.8	943.9	9609.3	938.8	9636.7	938.7	10000.0	940.3	10091.8
GR	940.4	10330.9	941.0	10598.6	943.7	10760.0	944.5	10809.0	952.8	10860

ET	2.60		7.1				9300	11160		
NC	.04	.04	.035							
X1	2.60	26	9437	10850	640	230	505			
GR	967.1	7292	967.4	7442.4	961.7	7739.8	957.5	7927.3	953.0	8217.8
GR	947.7	8560.5	944.7	8730.1	944.9	9057.3	944.8	9437.0	940.5	9449.9
GR	941.9	9684.7	939.6	9951.4	939.6	10000.0	939.6	10090.3	941.7	10102.7
GR	943.1	10322.7	940.5	10500.3	946.6	10580.6	946.6	10625.8	945.8	10652.9
GR	942.2	10671.4	943.4	10811.0	943.6	10850.0	944.8	11140.9	954.6	11152.0
GR	954.6	11164								

ET	2.70		7.1				9180	11238		
X1	2.70	23	9268.0	11238	790	265	500			
GR	973.3	7118	972.6	7364.3	965.5	7682.7	953.1	8465.4	945.5	8596.8
GR	946.0	9106.8	945.2	9268.0	941.9	9286.7	943.0	9517.5	943.0	9639.8
GR	941.3	9672.5	940.4	9879.6	942.1	10000.0	942.1	10084.8	945.5	10132.0
GR	942.2	10207.1	942.2	10369.3	944.8	10394.7	944.8	10466.1	942.8	10486.0
GR	944.4	10745.5	945.8	11226.7	955.5	11238				

ET	2.80		7.1				9160	11222		
***** EAST BANK LEVEE *****										
***** CROSS SECTIONS 2.80 & 2.89 *****										
X1	2.80	19	9200	11222	460	390	500			
GR	956.4	8817.0	952.8	8856.3	944.9	9060.9	943.4	9200	943.2	9214.4
GR	943.5	9447.6	942.0	10000.0	943.9	10091.2	943.9	10170.9	942.8	10185.3
GR	943.0	10439.2	945.6	10464.6	945.8	10582.0	943.7	10628.0	945.8	10774.1
GR	945.7	10820.4	942.3	10890.9	945.9	11203.4	956.6	11222		

ET	2.89		7.1				9200	11261.2		
***** EAST BANK LEVEE *****										
***** CROSS SECTIONS 2.80 & 2.89 *****										
X1	2.89	14	9672.7	11261.2	485	415	485			
GR	956.3	9036.4	945.7	9072.8	942.8	9142.7	942.8	9349.2	943.8	9383.0
GR	943.8	9672.7	943.0	9691.4	942.9	9950.5	942.9	10000.0	944.2	10381.7
GR	945.3	10624.7	945.8	10895.8	947.6	11244.6	958.0	11261.2		

ET	2.99		7.1				9323	11260.5		
X1	2.99	25.0	9323.3	11260.5	510	430	510			
GR	962.6	7939.8	960.0	8267.7	951.0	8367.2	950.9	8599.5	950.0	8850.0
GR	949.2	9079.5	945.0	9220.0	948.6	9297.9	948.6	9323.3	942.4	9360.9
GR	942.3	9406.1	944.0	9444.6	944.3	9603.0	943.2	9617.2	943.0	9673.1
GR	943.0	9950.0	943.0	10000.0	943.1	10383.7	944.9	10446.9	948.5	10615.0

Effective Model Output  
AGUAFRIA.OUT

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GR	946.6	10883.2	942.8	10924.1	945.4	11084.4	947.0	11240.7	959.0	11260.5
ET	3.08		7.1				9393	11278.2		
X1	3.08	20	9394.2	11278.2	550	380	500			
GR	963.8	7362.4	958.2	8042.5	959.4	8129.2	956.3	8659.2	951.4	8684.6
GR	949.5	9339.0	951.4	9394.2	946.4	9411.6	945.4	9444.8	943.5	9456.0
GR	943.1	10000.0	942.8	10466.0	946.6	10482.8	949.0	10575.0	947.7	10691.4
GR	945.7	10743.6	945.3	10903.2	942.5	10939.8	948.1	11258.6	960.0	11278.2
ET	3.18		7.1				9545	11211.1		
X1	3.18	20.0	9545.9	11211.1	680	350	500			
GR	963.9	7657.9	956.6	8228.7	958.0	8311.2	955.3	8840.9	950.7	8878.1
GR	951.3	9207.9	951.3	9514.4	952.2	9545.9	945.1	9575.3	944.2	9620.0
GR	943.5	9653.8	943.4	10000.0	943.9	10376.0	951.8	10390.0	950.2	10431.2
GR	947.9	10455.7	947.2	10723.6	944.7	10958.7	948.3	11195.1	959.2	11211.1
ET	3.27		7.1				9692	11130.5		
X1	3.27	17	9692.6	11130.5	575	420	510			
GR	961.5	7808.3	958.3	8137.4	956.3	8362.4	953.4	9316.6	950.7	9692.6
GR	945.5	9724.1	944.5	9770.5	944.8	10000.0	944.8	10158.6	951.4	10188.1
GR	947.8	10278.9	948.5	10405.5	944.5	10606.9	944.5	10822.2	945.7	10915.2
GR	948.5	11116.0	960.5	11130.5						
ET	3.37		7.1				9750	10970.3		
X1	3.37	17	9716.5	10970.3	585	460	510			
GR	961.6	7874.4	957.2	8296.6	954.5	8930.2	950.8	9667.0	950.9	9716.5
GR	945.1	9738.3	945.1	10000.0	945.5	10237.8	948.9	10256.9	946.7	10280.2
GR	945.1	10477.2	945.1	10515.3	945.6	10619.0	943.4	10669.0	950.7	10741.4
GR	949.3	10945.1	961.9	10970.3						
ET	3.40		7.1				9730	10928.5		
***** DIVIDED FLOW AT TRANSMISSION TOWER *****										
X1	3.40	23	9760.9	10928.5	175	175	175			
GR	961.9	7939.2	957.7	8317.0	955.0	9117.3	952.3	9683.9	952.0	9760.9
GR	945.4	9784.1	945.4	10000.0	945.4	10039.4	950.7	10054.0	951.3	10107.8
GR	953.0	10116.4	953.1	10158.4	951.2	10170.2	951.1	10228.2	945.2	10238.1
GR	945.1	10277.1	950.5	10294.4	948.9	10485.8	946.0	10546.7	949.6	10607.8
GR	950.1	10703.8	952.3	10913.8	963.2	10928.5				
ET	3.43		7.1				9700	10873.4		
X1	3.43	12	9758.5	10873.4	165	160	165			
GR	961.5	7958.9	957.8	8287.1	956.3	8796.5	955.8	9654.5	953.0	9684.2
GR	952.8	9758.5	946.2	9788.6	946.0	10000.0	946.0	10271.7	951.1	10293.1
GR	951.1	10849.9	963.7	10873.4						
ET	3.47		7.1				9650	10811.2		
X1	3.47	12	9779.1	10811.2	200	200	200			
GR	960.8	7985.2	957.0	8505.9	955.5	9212.5	953.7	9694.6	953.2	9779.1
GR	946.1	9811.1	946.1	10000.0	946.1	10293.1	951.0	10316.8	951.5	10589.1
GR	952.6	10793.4	965.1	10811.2						

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ET	3.55		7.1				9540	10684.5		
X1	3.55	12	9813.5	10684.5	395	395	395			
GR	962.5	7987.2	957.8	8515.4	957.3	8953.5	953.0	9750.6	952.3	9813.5
GR	948.0	9824.3	948.0	10000.0	948.2	10330.9	951.2	10339.8	952.4	10461.9
GR	953.9	10669.0	964.0	10684.5						
ET	3.64		7.1				9430	10593		
X1	3.64	22	9574.7	10593.9	480	480	480			
GR	964.1	8083.6	959.1	8247.8	959.4	8668.0	959.3	9544.2	963.1	9559.3
GR	963.2	9574.7	959.3	9594.4	958.4	9762.8	952.7	9785.9	952.3	9829.7
GR	949.9	9837.5	949.9	9867.7	951.2	9881.8	951.7	10004.4	951.1	10170.0
GR	949.5	10358.3	948.8	10389.3	951.1	10405.1	952.3	10560.9	954.8	10570.4
GR	954.9	10580.1	965.2	10593.9						
ET	3.69		7.1				9430	10575		
X1	3.69	10	9510	10575	240	240	240			
GR	959	9330	960	9510	964	9520	959	9530	956	9685
GR	952	10170	951	10340	952	10470	954	10550	966	10575
ET	3.729		7.1				9419	10604		
X1	3.729	6.0	9420	10603	260	270	265			
GR	972.0	9405	968	9420	952.2	9425	952.2	10588	967.2	10603
GR	967.2	10613								
NC			0.3		0.5					
***** BUCKEYE ROAD ***** ***** LOW CHORD = 967.4 ***** *****										
X1	3.734	63.0	9400.9	10599.3	25	25	25			
BT	61	9400.8	972.4	972.4	9400.9	974.9	967.5	9422.1	974.9	967.5
BT	9474.5	974.8	967.4	9474.6	974.8	952.3	9481.6	974.8	952.3	9481.7
BT	974.8	967.4	9554.7	974.8	967.4	9554.8	974.8	952.3	9561.8	974.8
BT	952.3	9561.9	974.8	967.4	9634.6	974.7	967.3	9634.7	974.7	952.3

Effective Model Output  
AGUAFRIA.OUT

BT	9641.7	974.7	952.3	9641.8	974.7	967.3	9714.5	974.6	967.2	9714.6
BT	974.6	952.3	9721.6	974.6	952.3	9721.7	974.6	967.2	9794.7	974.5
BT	967.1	9794.8	974.5	952.3	9801.8	974.5	952.3	9801.9	974.5	967.1
BT	9874.9	974.4	967.0	9875.0	974.4	952.3	9882.0	974.4	952.3	9882.1
BT	974.4	967.0	9955.1	974.4	967.0	9955.2	974.4	952.3	9962.2	974.4
BT	952.3	9962.3	974.4	967.0	10034.9	974.3	966.9	10035.0	974.3	952.3
BT	10042	974.3	952.3	10042.1	974.3	966.9	10115.1	974.2	966.8	10115.2
BT	974.2	952.3	10122.2	974.2	952.3	10122.3	974.2	966.8	10194.8	974.1
BT	966.7	10194.9	974.1	952.3	10201.9	974.1	952.3	10202.0	974.1	966.7
BT	10275	974.0	966.6	10275.1	974.0	952.3	10282.1	974.0	952.3	10282.2
BT	974.0	966.6	10355.2	974.0	966.6	10355.3	974.0	952.3	10362.3	974.0
BT	952.3	10362.4	974.0	966.6	10434.9	973.9	966.5	10435.0	973.9	952.3
BT	10442	973.9	952.3	10442.1	973.9	966.5	10515.1	973.8	966.4	10515.2
BT	973.8	952.3	10522.2	973.8	952.3	10522.3	973.8	966.4	10599.3	973.8
BT	967.6	10599.4	971.1	971.1						
GR	972.4	9400.8	967.5	9400.9	952.3	9416.0	952.3	9422.1	952.3	9474.5
GR	952.3	9474.6	952.3	9481.6	952.3	9481.7	952.3	9554.7	952.3	9554.8
GR	952.3	9561.8	952.3	9561.9	952.3	9634.6	952.3	9634.7	952.3	9641.7
GR	952.3	9641.8	952.3	9714.5	952.3	9714.6	952.3	9721.6	952.3	9721.7

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GR	952.3	9794.7	952.3	9794.8	952.3	9801.8	952.3	9801.9	952.3	9874.9
GR	952.3	9875.0	952.3	9882.0	952.3	9882.1	952.3	9955.1	952.3	9955.2
GR	952.3	9962.2	952.3	9962.3	952.3	10034.9	952.3	10035.0	952.3	10042.0
GR	952.3	10042.1	952.3	10115.1	952.3	10115.2	952.3	10122.2	952.3	10122.3
GR	952.3	10194.8	952.3	10194.9	952.3	10201.9	952.3	10202.0	952.3	10275.0
GR	952.3	10275.1	952.3	10282.1	952.3	10282.2	952.3	10355.2	952.3	10355.3
GR	952.3	10362.3	952.3	10362.4	952.3	10434.9	952.3	10435.0	952.3	10442.0
GR	952.3	10442.1	952.3	10515.1	952.3	10515.2	952.3	10522.2	952.3	10522.3
GR	952.3	10585.2	967.6	10599.3	971.1	10599.4				

X1	3.747				70	70			70	
X2									1	
X1	3.757	7.0	9425	10555	50	50		50		
GR	968.3	9400.0	966.5	9425.0	952.3	9454.0	952.4	9708.0	952.1	10000.0
GR	952.1	10538.0	967.7	10555.0						

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\*\*\*\*\* SO. PACIFIC R.R. \*\*\*\*\*  
\*\*\*\*\* LOW CHORD = 966.1 \*\*\*\*\*  
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X1	3.767	92	9428.1	10572.0	50	50	50			
BT	76	9428.0	970.9	970.9	9428.1	970.9	966.9	9457.5	970.9	966.9
BT	9457.6	970.9	952.9	9460.6	970.9	952.9	9460.7	970.9	966.9	9492.4
BT	970.9	966.9	9492.5	970.9	952.9	9498.5	970.9	952.9	9498.6	970.9
BT	966.9	9510.4	970.9	966.9	9510.5	970.9	952.9	9513.5	970.9	952.9
BT	9513.6	970.9	966.9	9525.5	970.9	966.9	9525.6	970.9	952.9	9528.6
BT	970.9	952.9	9528.7	970.9	966.9	9540.4	970.9	966.9	9540.5	970.9
BT	952.9	9543.5	970.9	952.9	9543.6	970.9	966.9	9555.4	970.9	966.9
BT	9555.5	970.9	952.9	9558.5	970.9	952.9	9558.6	970.9	966.9	9570.4
BT	970.9	966.9	9570.5	970.9	952.9	9573.5	970.9	952.9	9573.6	970.9
BT	966.9	9585.4	970.9	966.9	9585.5	970.9	952.9	9588.5	970.9	952.9
ET	9588.6	970.9	966.9	9600.4	970.9	966.9	9600.5	970.9	952.9	9625.0
BT	970.9	952.9	9625.1	970.9	966.1	10374.9	970.9	966.1	10375	970.9
BT	952.9	10400.2	970.9	952.9	10400.3	970.9	966.9	10410.9	970.9	966.9
BT	10411	970.9	952.9	10414.9	970.9	952.9	10415	970.9	966.9	10426.9
BT	970.9	966.9	10427.0	970.9	952.9	10430.0	970.9	952.9	10430.1	970.9
BT	966.9	10441.8	970.9	966.9	10441.9	970.9	952.9	10444.9	970.9	952.9
BT	10445	970.9	966.9	10456.9	970.9	966.9	10457	970.9	952.9	10460.0
BT	970.9	952.9	10460.1	970.9	966.9	10472.0	970.9	966.9	10472.1	970.9
BT	952.9	10475.1	970.9	952.9	10475.2	970.9	966.9	10486.9	970.9	966.9
BT	10487	970.9	952.9	10490.0	970.9	952.9	10490.1	970.9	966.9	10501.9
BT	970.9	966.9	10502.0	970.9	952.9	10508.9	970.9	952.9	10509.0	970.9
BT	966.9	10540.8	970.9	966.9	10540.9	970.9	952.9	10543.9	970.9	952.9
BT	10544	970.9	966.9	10571.9	970.9	966.9	10572	970.9	970.9	
GR	970.9	9428.0	966.9	9428.1	952.9	9457.5	952.9	9457.6	952.9	9460.6
GR	952.9	9460.7	952.9	9492.4	952.9	9492.5	952.9	9498.5	952.9	9498.6
GR	952.9	9510.4	952.9	9510.5	952.9	9513.5	952.9	9513.6	952.9	9525.5
GR	952.9	9525.6	952.9	9528.6	952.9	9528.7	952.9	9540.4	952.9	9540.5
GR	952.9	9543.5	952.9	9543.6	952.9	9555.4	952.9	9555.5	952.9	9558.5
GR	952.9	9558.6	952.9	9570.4	952.9	9570.5	952.9	9573.5	952.9	9573.6
GR	952.9	9585.4	952.9	9585.5	952.9	9588.5	952.9	9588.6	952.9	9600.4
GR	952.9	9600.5	952.9	9625.0	952.9	9625.1	952.9	9761.9	966.1	9762.0
GR	966.1	9778.0	952.9	9778.1	952.9	9915.0	966.1	9915.1	966.1	9931.1

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GR	952.9	9931.2	952.9	10068.9	966.1	10069.0	966.1	10085.0	952.9	10085.1
GR	952.9	10220.9	966.1	10221.0	966.1	10237.0	952.9	10237.1	952.9	10374.9
GR	952.9	10375.0	952.9	10400.2	952.9	10400.3	952.9	10410.9	952.9	10411.0
GR	952.9	10414.9	952.9	10415.0	952.9	10426.9	952.9	10427.0	952.9	10430.0
GR	952.9	10430.1	952.9	10441.8	952.9	10441.9	952.9	10444.9	952.9	10445.0
GR	952.9	10456.9	952.9	10457.0	952.9	10460.0	952.9	10460.1	952.9	10472.0
GR	952.9	10472.1	952.9	10475.1	952.9	10475.2	952.9	10486.9	952.9	10487.0
GR	952.9	10490.0	952.9	10490.1	952.9	10501.9	952.9	10502.0	952.9	10508.9
GR	952.9	10509.0	952.9	10540.8	952.9	10540.9	952.9	10543.9	952.9	10544.0
GR	967.2	10571.9	970.9	10572.0						

X1	3.770				20	20			20	
X2									1	

BEGIN LEVEE LEFT BANK SECTION 3.78

Effective Model Output  
AGUAFRIA.OUT

NC	.04	.04	.03	0.1	0.3					
QT	2	52000	52000							
X1	3.78	7.0	9444.0	10572.0	35	35	35			
GR	968.0	9444.0	953.4	9464.0	952.9	10000.0	952.9	10388.0	953.2	10554.0
GR	968.0	10572.0	968.1	10586.0						
X1	3.80	8.0	9439	10590	125	125	125			
GR	967.5	9439.0	953.9	9463.0	953.2	9699.0	953.1	9904.0	953.1	10000.0
GR	953.2	10302.0	953.2	10555.0	968.2	10590.0				
X1	3.81	15.0	9447	10596	85	75	80			
GR	967.5	9425.0	967.5	9447.0	953.4	9467.0	953.7	9800.0	963.9	9816.0
GR	961.7	9824.0	961.7	9882.0	964.9	9890.0	953.3	9911.0	953.3	10000.0
GR	953.3	10311.0	953.3	10559.0	962.7	10568.0	962.8	10582.0	968.5	10596.0
X1	3.83	11.0	9429	10577	105	105	105			
GR	968.0	9420.0	968.0	9429.0	958.5	9437.0	958.4	9449.0	953.4	9459.0
GR	954.0	9777.0	952.8	10000.0	952.8	10286.0	954.2	10562.0	968.2	10577.0
GR	968.2	10589.0								
X1	3.93	8.0	9445	10577	500	500	500			
GR	969.1	9430.0	969.1	9445.0	955.3	9461.0	954.7	9732.0	953.5	10000.0
GR	953.5	10323.0	954.4	10556.0	970.6	10577.0				
X1	4.02	8.0	9440	10577	500	500	500			
GR	971.5	9440.0	954.4	9464.0	954.5	9725.0	953.9	10000.0	953.9	10340.0
GR	955.0	10554.0	970.6	10577.0	970.7	10592.0				
X1	4.04	15.0	9450	10582	100	100	100			
GR	972.2	9450.0	954.5	9470.0	954.6	9798.0	966.6	9814.0	966.6	9823.0
GR	963.0	9829.0	963.4	9885.0	966.8	9892.0	966.8	9900.0	954.7	9916.0
GR	954.7	10000.0	954.7	10100.0	954.7	10564.0	971.1	10582.0	971.2	10594.0
X1	4.06	7.0	9440	10578	120	120	120			
GR	973.4	9440.0	955.1	9465.0	955.0	9757.0	954.9	10000.0	955.0	10558.0
GR	971.6	10578.0	971.6	10582.0						

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X1	4.092	7.0	9440	10578	170	170	170			
GR	973.3	9440.0	955.2	9465.0	955.2	9757.0	955.2	10000.0	955.2	10558.0
GR	973.0	10578.0	973.0	10582.0						
X1	4.094	7.0	9440	10578	10	10	10			
GR	973.3	9440.0	958.5	9465.0	958.5	9757.0	958.5	10000.0	958.5	10558.0
GR	973.0	10578.0	973.0	10582.0						
X1	4.16	7.0	9448	10600	330	330	330			
GR	970.1	9430.0	973.6	9448.0	958.9	9471.0	958.6	9717.0	957.2	10000.0
GR	958.7	10569.0	974.3	10600.0						
X1	4.26	7.0	9410	10556	495	495	495			
GR	975.7	9410.0	960.5	9436.0	959.5	9709.0	957.0	10000.0	958.5	10294.0
GR	961.4	10532.0	974.4	10556.0						
X1	4.27	15.0	9449	10588	100	100	100			
GR	975.0	9440.0	974.9	9449.0	959.5	9466.0	958.0	9791.0	970.4	9807.0
GR	970.6	9818.0	968.3	9822.0	967.9	9877.0	971.5	9883.0	971.5	9891.0
GR	958.0	9910.0	957.1	10000.0	958.9	10317.0	959.7	10563.0	974.4	10588.0
X1	4.30	7.0	9458	10594	115	115	115			
GR	974.8	9458.0	959.6	9475.0	958.7	9760.0	957.6	10000.0	958.6	10293.0
GR	961.1	10573.0	974.9	10594.0						
X1	4.39	6.0	9440	10590	515	445	480			
GR	976.1	9440.0	959.6	9462.0	958.9	9801.0	957.6	10000.0	961.4	10561.0
GR	976.2	10590.0								
X1	4.48	8.0	9435	10586	535	465	500			
GR	978.3	9435.0	961.5	9461.0	959.8	9734.0	957.8	9864.0	957.8	10000.0
GR	959.2	10310.0	960.5	10557.0	975.7	10586.0				
X1	4.50	15.0	9440	10576	110	110	110			
GR	978.4	9440.0	960.8	9462.0	959.5	9740.0	973.9	9758.0	973.9	9769.0
GR	971.1	9772.0	970.9	9830.0	973.8	9834.0	973.8	9844.0	957.8	9863.0
GR	957.8	10000.0	958.0	10262.0	960.4	10557.0	975.9	10576.0	976.5	10592.0
X1	4.52	8.0	9440	10567	115	125	120			
GR	976.5	9440.0	961.4	9457.0	959.1	9772.0	958.0	10000.0	959.2	10301.0
GR	961.7	10550.0	976.0	10567.0	976.0	10578.0				
X1	4.60	8.0	9445	10581	430	420	425			
GR	978.9	9445.0	961.8	9468.0	959.2	9772.0	958.1	10000.0	960.2	10346.0
GR	961.7	10564.0	976.9	10581.0	976.9	10594.0				
X1	4.70	9.0	9451	10579	500	500	500			
GR	978.4	9440.0	978.4	9451.0	961.5	9467.0	960.2	9774.0	959.1	10000.0
GR	961.1	10353.0	962.8	10562.0	978.8	10579.0	978.9	10595.0		

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*****
***** VAN BUREN *****
***** LOW CHORD = 980.6 *****
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X1	4.754	53.0	9402.5	10572.3	150	310	225				
X3	10										
BT	44	9402.5	988.1	988.1	9427.7	988.1	988.1	9427.8	988.1	980.6	
BT	9445.8	988.1	980.6	9525.5	989.4	981.9	9525.6	989.4	960.3	9537.6	
BT	989.4	960.3	9537.7	989.4	981.9	9641.5	990.8	983.3	9641.6	990.8	
BT	960.3	9653.6	990.8	960.3	9653.7	990.8	983.3	9757.4	991.8	984.3	
BT	9757.5	991.8	960.3	9769.5	991.8	960.3	9769.6	991.8	984.3	9873.4	
BT	992.3	984.8	9873.5	992.3	960.3	9885.5	992.3	960.3	9885.6	992.3	
BT	984.8	9997.8	992.8	985.3	9997.9	992.8	960.3	10009.9	992.8	960.3	
BT	10010	992.8	985.3	10105.8	993	985.5	10105.9	993	960.3	10117.9	
BT	993	960.3	10118	993	985.5	10221.3	992.8	985.3	10221.4	992.8	
BT	960.3	10233.4	992.8	960.3	10233.5	992.8	985.3	10337.9	991.9	984.4	
BT	10338	991.9	960.3	10349	991.9	960.3	10349.1	991.9	984.4	10453.5	
BT	990.4	982.9	10453.6	990.4	960.3	10465.6	990.4	960.3	10465.7	990.4	
BT	982.9	10555.9	988.7	981.2	10572.3	988.7	981.2	10572.4	988.7	988.7	
BT	10597	988.7	988.7								
GR	973.0	7150.0	972.7	8115.0	973.6	8831.0	984.3	9296.0	988.1	9402.5	
GR	988.1	9427.7	980.6	9427.8	960.3	9445.8	960.3	9525.5	960.3	9525.6	
GR	960.3	9537.6	960.3	9537.7	960.3	9641.5	960.3	9641.6	960.3	9653.6	
GR	960.3	9653.7	960.3	9757.4	960.3	9757.5	960.3	9769.5	960.3	9769.6	
GR	960.3	9873.4	960.3	9873.5	960.3	9885.5	960.3	9885.6	960.3	9997.8	
GR	960.3	9997.9	960.3	10009.9	960.3	10010	960.3	10105.8	960.3	10105.9	
GR	960.3	10117.9	960.3	10118.0	960.3	10221.3	960.3	10221.4	960.3	10233.4	
GR	960.3	10233.5	960.3	10337.9	960.3	10338.0	960.3	10349.0	960.3	10349.1	
GR	960.3	10453.6	960.3	10453.6	960.3	10465.6	960.3	10465.7	960.3	10555.9	
GR	981.2	10572.3	988.7	10572.4	988.7	10597.0	987.2	10612.0	978.1	11023.0	
GR	978.7	11497.0	980.6	12014.0	982.4	12466.0					
X1	4.759				77	77	77				
X2							1				
X3	10										
X1	4.79	6.0	9440	10590	280	110	200				
GR	980.2	9440.0	964.0	9466.0	961.1	10000.0	964.6	10568.0	980.8	10590.0	
GR	980.8	10600.0									
X1	4.89	9.0	9385	10582	455	510	485				
GR	982.3	9375.0	982.3	9385.0	965.4	9400.0	963.9	9607.0	961.8	10000.0	
GR	964.2	10311.0	965.5	10560.0	982.0	10582.0	982.0	10593.0			
X1	4.98	9.0	9348	10630	515	520	515				
GR	983.5	9340.0	983.5	9348.0	966.6	9368.0	965.2	9515.0	962.8	10000.0	
GR	964.3	10382.0	965.9	10608.0	985.3	10630.0	985.3	10643.0			

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*****
***** I-10 EAST BOUND *****

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\*\*\*\*\* LOW CHORD = 986.4 \*\*\*\*\*  
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X1 5.290 82 9250.8 10672.4 115 150 125  
BT 82 9250.7 994.5 994.5 9250.8 996.3 986.4 9277.5 996.3 986.4  
BT 9318.7 996.3 986.4 9318.8 996.3 971.5 9323.4 996.3 971.5 9323.5  
BT 996.3 986.4 9389.9 996.5 986.6 9390.0 996.5 971.5 9394.5 996.5  
BT 971.5 9394.6 996.5 986.6 9460.9 996.6 986.7 9461.0 996.6 971.5  
BT 9465.6 996.6 971.5 9465.7 996.6 986.7 9532.1 996.8 986.9 9532.2  
BT 996.8 971.5 9536.8 996.8 971.5 9536.9 996.8 986.9 9603.3 996.9  
BT 987.0 9603.4 996.9 971.5 9608.0 996.9 971.5 9608.1 996.9 987.0  
BT 9674.5 997.1 987.2 9674.6 997.1 971.5 9679.2 997.1 971.5 9679.3

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BT 997.1 987.2 9745.7 997.3 987.4 9745.8 997.3 971.5 9750.4 997.3  
BT 971.5 9750.5 997.3 987.4 9816.9 997.4 987.5 9817.0 997.4 971.5  
BT 9821.6 997.4 971.5 9821.7 997.4 987.5 9888.1 997.6 9888.2 997.7  
BT 997.6 971.5 9892.8 997.6 971.5 9892.9 997.6 987.7 9959.3 997.7  
BT 987.8 9959.4 997.7 971.5 9964.0 997.7 971.5 9964.1 997.7 987.8  
BT 10030. 997.9 988.0 10030.1 997.9 971.5 10034.7 997.9 971.5 10034.8  
BT 997.9 988.0 10101.2 998.0 988.1 10101.3 998.0 971.5 10105.9 998.0  
BT 971.5 10106.0 998.0 988.1 10172.3 998.2 988.3 10172.4 998.2 971.5  
BT 10177. 998.2 971.5 10177.1 998.2 988.3 10243.7 998.4 988.5 10243.8  
BT 998.4 971.5 10248.4 998.4 971.5 10248.5 998.4 988.5 10314.9 998.5  
BT 988.6 10315.0 998.5 971.5 10319.6 998.5 971.5 10319.7 998.5 988.6  
BT 10386. 998.7 988.8 10386.1 998.7 971.5 10390.7 998.7 971.5 10390.8  
BT 998.7 988.8 10457.2 998.9 989.0 10457.3 998.9 971.5 10461.9 998.9  
BT 971.5 10462.0 998.9 989.0 10528.4 999.1 989.1 10528.5 999.1 971.5  
BT 10533. 999.1 971.5 10533.1 999.1 989.1 10599.5 999.3 989.2 10599.6  
BT 999.3 971.5 10604.2 999.3 971.5 10604.3 999.3 989.2 10645.5 999.3  
BT 989.2 10672.3 999.5 989.4 10672.4 997.7 997.7 997.7 10645.5 999.3  
GR 994.5 9250.7 986.4 9250.8 971.5 9277.5 971.5 9318.7 971.5 9318.8  
GR 971.5 9323.4 971.5 9323.5 971.5 9389.9 971.5 9390.0 971.5 9394.5  
GR 971.5 9394.6 971.5 9460.9 971.5 9461.0 971.5 9465.6 971.5 9465.7  
GR 971.5 9532.1 971.5 9532.2 971.5 9536.8 971.5 9536.9 971.5 9603.3  
GR 971.5 9603.4 971.5 9608.0 971.5 9608.1 971.5 9674.5 971.5 9674.6  
GR 971.5 9679.2 971.5 9679.3 971.5 9745.7 971.5 9745.8 971.5 9750.4  
GR 971.5 9750.5 971.5 9816.9 971.5 9817.0 971.5 9821.6 971.5 9821.7  
GR 971.5 9888.1 971.5 9888.2 971.5 9892.8 971.5 9892.9 971.5 9959.3  
GR 971.5 9959.4 971.5 9964.0 971.5 9964.1 971.5 10030.0 971.5 10030.1  
GR 971.5 10034.7 971.5 10034.8 971.5 10101.2 971.5 10101.3 971.5 10105.9  
GR 971.5 10106.0 971.5 10172.3 971.5 10172.4 971.5 10177.0 971.5 10177.1  
GR 971.5 10243.7 971.5 10243.8 971.5 10248.4 971.5 10248.5 971.5 10314.9  
GR 971.5 10315.0 971.5 10319.6 971.5 10319.7 971.5 10386.0 971.5 10386.1  
GR 971.5 10390.7 971.5 10390.8 971.5 10457.2 971.5 10457.3 971.5 10461.9  
GR 971.5 10462.0 971.5 10528.4 971.5 10528.5 971.5 10533.0 971.5 10533.1  
GR 971.5 10599.5 971.5 10599.6 971.5 10604.2 971.5 10604.3 971.5 10645.5  
GR 989.4 10672.3 997.7 10672.4

X1 5.305 60 60 60  
X2 1

QT 2 54400 54400  
\*\*\*\*\*  
\*\*\*\*\* I-10 WEST BOUND \*\*\*\*\*  
\*\*\*\*\* LOW CHORD = 986.4 \*\*\*\*\*  
\*\*\*\*\*

X1 5.317 82 9250.8 10672.4 65 65 65  
BT 82 9250.7 994.5 994.5 9250.8 996.3 986.4 9277.5 996.3 986.4  
BT 9318.7 996.3 986.4 9318.8 996.3 971.7 9323.4 996.3 971.7 9323.5  
BT 996.3 986.4 9389.9 996.5 986.6 9390.0 996.5 971.7 9394.5 996.5  
BT 971.7 9394.6 996.5 986.6 9460.9 996.6 986.7 9461.0 996.6 971.7  
BT 9465.6 996.6 971.7 9465.7 996.6 986.7 9532.1 996.8 986.9 9532.2  
BT 996.8 971.7 9536.8 996.8 971.7 9536.9 996.8 986.9 9603.3 996.9  
BT 987.0 9603.4 996.9 971.7 9608.0 996.9 971.7 9608.1 996.9 987.0  
BT 9674.5 997.1 987.2 9674.6 9608.0 997.1 9679.2 997.1 971.7 9679.3  
BT 997.1 987.2 9745.7 997.3 987.4 9745.8 997.3 971.7 9750.4 997.3  
BT 971.7 9750.5 997.3 987.4 9816.9 997.4 987.5 9817.0 997.4 971.7

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BT 9821.6 997.4 971.7 9821.7 997.4 987.5 9888.1 997.6 987.7 9888.2  
BT 997.6 971.7 9892.8 997.6 971.7 9892.9 997.6 987.7 9959.3 997.7  
BT 987.8 9959.4 997.7 971.7 9964.0 997.7 971.7 9964.1 997.7 987.8  
BT 10030. 997.9 988.0 10030.1 997.9 971.7 10034.7 997.9 971.7 10034.8  
BT 997.9 988.0 10101.2 998.0 988.1 10101.3 998.0 971.7 10105.9 998.0  
BT 971.7 10106.0 998.0 988.1 10172.3 998.2 988.3 10172.4 998.2 971.7  
BT 10177. 998.2 971.7 10177.1 998.2 988.3 10243.7 998.4 988.5 10243.8  
BT 998.4 971.7 10248.4 998.4 971.7 10248.5 998.4 988.5 10314.9 998.5  
BT 988.6 10315.0 998.5 971.7 10319.6 998.5 971.7 10319.7 998.5 988.6  
BT 10386. 998.7 988.8 10386.1 998.7 971.7 10390.7 998.7 971.7 10390.8  
BT 998.7 988.8 10457.2 998.9 989.0 10457.3 998.9 971.7 10461.9 998.9  
BT 971.7 10462.0 998.9 989.0 10528.4 999.1 10528.5 999.1 971.7 998.9  
BT 10533. 999.1 971.7 10533.1 999.1 989.1 10599.5 999.3 989.2 10599.6  
BT 999.3 971.7 10604.2 999.3 971.7 10604.3 999.3 989.2 10645.5 999.3  
BT 989.2 10672.3 999.5 989.4 10672.4 997.7 997.7 997.7 10645.5 999.3  
GR 994.5 9250.7 986.4 9250.8 971.7 9277.5 971.7 9318.7 971.7 9318.8  
GR 971.7 9323.4 971.7 9323.5 971.7 9389.9 971.7 9390.0 971.7 9394.5  
GR 971.7 9394.6 971.7 9460.9 971.7 9461.0 971.7 9465.6 971.7 9465.7  
GR 971.7 9532.1 971.7 9532.2 971.7 9536.8 971.7 9536.9 971.7 9603.3  
GR 971.7 9603.4 971.7 9608.0 971.7 9608.1 971.7 9674.5 971.7 9674.6  
GR 971.7 9679.2 971.7 9679.3 971.7 9745.7 971.7 9745.8 971.7 9750.4  
GR 971.7 9750.5 971.7 9816.9 971.7 9817.0 971.7 9821.6 971.7 9821.7

Effective Model Output  
AGUAFRIA.OUT

GR	971.7	9888.1	971.7	9888.2	971.7	9892.8	971.7	9892.9	971.7	9959.3
GR	971.7	9959.4	971.7	9964.0	971.7	9964.1	971.7	10030.0	971.7	10030.1
GR	971.7	10034.7	971.7	10034.8	971.7	10101.2	971.7	10101.3	971.7	10105.9
GR	971.7	10106.0	971.7	10172.3	971.7	10172.4	971.7	10177.0	971.7	10177.1
GR	971.7	10243.7	971.7	10243.8	971.7	10248.4	971.7	10248.5	971.7	10314.9
GR	971.7	10315.0	971.7	10319.6	971.7	10319.7	971.7	10386.0	971.7	10386.1
GR	971.7	10390.7	971.7	10390.8	971.7	10457.2	971.7	10457.3	971.7	10461.9
GR	971.7	10462.0	971.7	10528.4	971.7	10528.5	971.7	10533.0	971.7	10533.1
GR	971.7	10599.5	971.7	10599.6	971.7	10604.2	971.7	10604.3	971.7	10645.5
GR	989.4	10672.3	997.7	10672.4						

X1	5.328				60	60	60			
X2							1			
X1	5.380	20.0	9266.0	10656.0	120	460	280			
GR	993.0	9214.0	987.7	9266.0	985.7	9342.0	972.8	9358.0	972.3	9413.0
GR	972.2	9565.0	972.2	9734.0	972.2	9889.0	972.2	9994.0	971.4	10000.0
GR	971.4	10062.0	971.4	10195.0	974.3	10208.0	974.2	10263.0	974.2	10420.0
GR	974.2	10582.0	974.2	10639.0	988.4	10656.0	988.6	10671.0	982.3	10702.0
ET	5.480	9.1	9.1						9310	10594
X1	5.480	17.0	9320.0	10579.0	250	700	540			
GR	980.0	9140	973.3	9160	973.2	9320.0	973.0	9500.0	973.4	9624.0
GR	973.5	9753.0	973.0	9866.0	972.7	9947.0	972.8	10000.0	972.8	10082.0
GR	972.9	10155.0	973.9	10179.0	974.4	10305.0	974.4	10507.0	974.4	10559.0
GR	988.8	10579.0	989.0	10594.0	0					

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ET	5.510	9.1	9.1						9320	10584
X1	5.510	24.0	9325.0	10567.0	150	100	150			
GR	980.0	8930.0	973.3	8950.0	973.4	9325.0	974.0	9512.0	974.2	9629.0
GR	973.9	9728.0	973.9	9794.0	982.8	9804.0	982.8	9818.0	980.6	9822.0
GR	980.5	9873.0	983.8	9881.0	983.8	9892.0	973.9	9904.0	973.9	9937.0
GR	972.7	9972.0	972.7	10000.0	973.1	10158.0	974.9	10185.0	974.9	10308.0
GR	974.9	10468.0	974.9	10549.0	990.1	10567.0	990.1	10584.0		

ET	5.540	9.1	9.1						9330	10562
X1	5.540	18.0	9340.0	10550.0	130	150	140			
GR	980.0	8730.0	973.3	8750.0	972.6	9340.0	973.3	9412.0	974.1	9523.0
GR	974.2	9631.0	974.7	9753.0	975.1	9921.0	974.1	9943.0	974.1	10000.0
GR	974.1	10060.0	974.1	10173.0	975.7	10189.0	975.7	10293.0	975.7	10430.0
GR	975.7	10533.0	988.4	10550.0	988.6	10562.0				

X1	5.650	17.0	9409.0	10577.0	580	580	580			
GR	987.4	9409.0	975.0	9431.0	975.0	9495.0	975.0	9613.0	975.0	9747.0
GR	975.2	9863.0	975.3	9940.0	972.9	9966.0	973.0	10000.0	973.0	10101.0
GR	973.0	10191.0	974.9	10218.0	974.9	10338.0	974.9	10528.0	993.2	10577.0
GR	995.0	10597.0	995.5	10626.0						

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\*\*\*\*\* MCDOWELL ROAD \*\*\*\*\*  
\*\*\*\*\* LOW CHORD = 990.8 \*\*\*\*\*  
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X1	5.689	42	9371.3	10552.8	210	210	210			
BT	40	9371.2	996.9	996.9	9371.3	1000.3	990.8	9488.7	1002.4	992.9
BT	9488.8	1002.4	973.85	9496.2	1002.4	973.85	9496.3	1002.4	992.9	9606.6
BT	1004.1	994.6	9606.7	1004.1	973.85	9614.1	1004.1	973.85	9614.2	1004.1
BT	994.6	9725.8	1005.3	995.8	9725.9	1005.3	973.85	9733.3	1005.3	973.85
BT	9733.4	1005.3	995.8	9843.3	1006.0	996.5	9843.4	1006.0	973.85	9850.8
BT	1006.0	973.85	9850.9	1006.0	996.5	9961.3	1006.3	996.8	9961.4	1006.3
BT	973.85	9968.8	1006.3	973.85	9968.9	1006.3	996.8	10078.9	1006.0	996.5
BT	10079.0	1006.0	973.85	10086.4	1006.0	973.85	10086.5	1006.0	996.5	10196.2
BT	1005.3	995.8	10196.3	1005.3	973.85	10203.7	1005.3	973.85	10203.8	1005.3
BT	995.8	10314.4	1004.1	994.6	10314.5	1004.1	973.85	10321.9	1004.1	973.85
BT	10322.0	1004.1	994.6	10432.1	1002.4	992.9	10432.2	1002.4	973.85	10439.6
BT	1002.4	973.85	10439.7	1002.4	992.9	10552.8	1000.3	990.8	10552.9	996.9
BT	996.9									
GR	996.9	9371.2	990.8	9371.3	973.85	9399.5	973.85	9488.7	973.85	9488.8
GR	973.85	9496.2	973.85	9496.3	973.85	9606.6	973.85	9606.7	973.85	9614.1
GR	973.85	9614.2	973.85	9725.8	973.85	9725.9	973.85	9733.3	973.85	9733.4
GR	973.85	9843.3	973.85	9843.4	973.85	9850.8	973.85	9850.9	973.85	9961.3
GR	973.85	9961.4	973.85	9968.8	973.85	9968.9	973.85	10078.9	973.85	10079.0
GR	973.85	10086.4	973.85	10086.5	973.85	10196.2	973.85	10196.3	973.85	10203.7
GR	973.85	10203.8	973.85	10314.4	973.85	10314.5	973.85	10321.9	973.85	10322.0
GR	973.85	10432.1	973.85	10432.2	973.85	10439.6	973.85	10439.7	973.85	10524.6
GR	990.8	10552.8	996.9	10552.9						

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X1	5.700				60	60	60			
X2							1			
X1	5.750	22.0	9426.0	10579.0	310	310	310			
GR	990.7	9287.0	990.7	9295.0	985.9	9330.0	983.9	9362.0	985.6	9388.0
GR	990.1	9416.0	990.3	9426.0	975.3	9477.0	975.3	9595.0	975.5	9715.0
GR	975.5	9864.0	975.5	9981.0	974.0	9994.0	973.7	10030.0	973.7	10095.0
GR	973.7	10244.0	975.6	10259.0	975.6	10349.0	975.7	10474.0	975.7	10565.0
GR	989.2	10579.0	989.6	10596.0						

X1	5.770	16.0	9416.0	10568.0	140.0	150.0	145.0			
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Effective Model Output  
AGUAFRIA.OUT

GR	989.4	9416.0	976.8	9452.0	976.2	9519.0	975.7	9613.0	975.7	9744.0
GR	975.7	9874.0	975.7	9965.0	973.5	9980.0	973.5	10040.0	973.5	10120.0
GR	973.5	10216.0	975.6	10237.0	976.0	10304.0	976.0	10461.0	976.0	10552.0
GR	991.1	10568.0								
X1	5.790	24.0	9425.0	10567.0	150.0	160.0	155.0	0.0	0.0	0.0
GR	992.3	9409.0	992.3	9425.0	978.2	9452.0	978.2	9515.0	976.4	9593.0
GR	976.1	9728.0	987.2	9740.0	987.2	9749.0	983.4	9758.0	983.5	9807.0
GR	987.7	9814.0	987.8	9828.0	976.8	9839.0	976.7	9964.0	974.7	9975.0
GR	974.6	10020.0	974.6	10105.0	974.6	10222.0	976.1	10242.0	976.1	10324.0
GR	976.1	10452.0	976.6	10550.0	990.2	10567.0	990.3	10581.0		
X1	5.810	17.0	9442.0	10570.0	160.0	140.0	150.0	0.0	0.0	0.0
GR	990.8	9432.0	990.8	9442.0	975.3	9458.0	975.3	9552.0	976.6	9641.0
GR	976.6	9731.0	976.6	9845.0	976.6	9969.0	974.6	9977.0	974.6	10020.0
GR	974.6	10099.0	974.6	10229.0	977.1	10250.0	976.8	10331.0	976.5	10448.0
GR	976.5	10552.0	991.0	10570.0						
X1	5.900	17.0	9429.0	10561.0	495.0	500.0	500.0			
GR	993.0	9414.0	993.0	9429.0	977.5	9447.0	977.5	9506.0	977.5	9598.0
GR	977.5	9714.0	977.6	9829.0	977.4	9946.0	975.4	9958.0	975.5	10040.0
GR	975.5	10099.0	975.5	10230.0	977.4	10257.0	977.6	10344.0	977.6	10459.0
GR	977.6	10544.0	991.1	10561.0						
X1	5.990	16.0	9429.0	10561.0	515	485	500			
GR	992.5	9418.0	992.5	9429.0	979.0	9447.0	978.7	9527.0	978.7	9618.0
GR	979.0	9688.0	979.0	9801.0	978.0	9930.0	975.5	9947.0	975.5	10000.0
GR	975.5	10090.0	975.5	10240.0	978.4	10257.0	978.4	10338.0	978.4	10540.0
GR	993.2	10561.0								
X1	6.070	15.0	9416.0	10545.0	400	420	410			
GR	992.7	9416.0	979.3	9431.0	979.3	9490.0	979.2	9585.0	979.2	9712.0
GR	979.0	9831.0	978.7	9925.0	976.7	9971.0	976.7	10000.0	976.7	10114.0
GR	976.7	10208.0	977.8	10260.0	978.4	10376.0	978.6	10528.0	992.4	10545.0
X1	6.160	13.0	9420.0	10553.0	500	500	500			
GR	994.0	9420.0	979.1	9437.0	979.1	9527.0	979.1	9638.0	979.1	9781.0
GR	979.3	9906.0	979.3	10000.0	979.3	10063.0	979.3	10215.0	979.3	10397.0
GR	979.3	10535.0	993.2	10553.0	993.1	10566.0				

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X1	6.260	16.0	9425.0	10559.0	510	495	500			
GR	993.8	9409.0	994.1	9425.0	981.3	9443.0	981.3	9522.0	981.4	9639.0
GR	981.2	9768.0	981.1	9888.0	980.2	9966.0	980.2	10000.0	980.2	10056.0
GR	980.3	10165.0	980.5	10289.0	980.5	10412.0	980.9	10543.0	993.3	10559.0
GR	993.3	10572.0								
X1	6.350	15.0	9446.0	10560.0	525	475	500			
GR	996.1	9421.0	996.3	9446.0	980.7	9464.0	981.8	9576.0	982.6	9667.0
GR	982.6	9792.0	982.4	9959.0	980.5	9974.0	980.5	10000.0	980.5	10085.0
GR	980.5	10205.0	981.7	10326.0	981.8	10459.0	981.8	10543.0	996.3	10560.0
X1	6.430	20.0	9452.0	10537.0	510	380	445			
GR	996.1	9390.0	991.8	9409.0	991.6	9433.0	996.5	9443.0	996.5	9452.0
GR	984.1	9467.0	984.0	9528.0	984.3	9631.0	984.3	9768.0	984.1	9894.0
GR	983.2	9980.0	981.0	10000.0	981.0	10057.0	981.3	10156.0	981.9	10213.0
GR	983.2	10232.0	983.2	10359.0	982.5	10519.0	996.1	10537.0	996.1	10550.0
X1	6.520	18.0	9459.0	10571.0	510	370	440			
GR	997.6	9431.0	997.6	9459.0	984.0	9479.0	983.6	9542.0	983.6	9640.0
GR	983.6	9770.0	983.6	9903.0	983.4	10000.0	983.4	10058.0	981.6	10077.0
GR	981.5	10167.0	981.6	10283.0	982.4	10298.0	982.4	10393.0	982.2	10512.0
GR	982.3	10558.0	997.6	10571.0	997.6	10589.0				
X1	6.540	25.0	9462.0	10583.0	100	75	90			
GR	997.9	9436.0	997.9	9462.0	984.9	9481.0	984.9	9553.0	992.8	9564.0
GR	992.8	9574.0	990.9	9580.0	990.9	9631.0	993.7	9641.0	993.8	9653.0
GR	984.3	9670.0	984.3	9746.0	984.1	9830.0	984.1	9939.0	984.1	10000.0
GR	983.9	10063.0	982.4	10082.0	982.4	10163.0	982.4	10292.0	983.4	10306.0
GR	983.1	10364.0	983.1	10506.0	983.1	10563.0	997.5	10583.0	997.5	10595.0
X1	6.560	17.0	9462.0	10591.0	115	85	100			
GR	998.1	9440.0	998.1	9462.0	985.1	9482.0	985.0	9547.0	985.0	9657.0
GR	984.5	9764.0	983.6	9848.0	983.6	9941.0	983.6	10000.0	983.6	10073.0
GR	982.6	10089.0	982.6	10171.0	982.1	10300.0	983.0	10319.0	983.0	10433.0
GR	983.0	10570.0	997.7	10591.0						
X1	6.590	18.0	9454.0	10584.0	165	155	150			
GR	998.5	9441.0	998.5	9454.0	984.0	9471.0	983.7	9532.0	983.8	9661.0
GR	984.2	9769.0	983.9	9852.0	983.6	9964.0	983.6	10000.0	983.6	10058.0
GR	981.8	10078.0	981.8	10175.0	981.8	10288.0	983.0	10304.0	983.0	10405.0
GR	983.2	10564.0	998.0	10584.0	998.0	10596.0				
X1	6.610	24.0	9439.0	10570.0	115	85	100			
GR	998.8	9428.0	998.8	9439.0	985.3	9456.0	985.3	9540.0	985.3	9654.0
GR	985.1	9784.0	984.0	9858.0	994.7	9870.0	994.7	9883.0	990.1	9890.0
GR	990.1	9939.0	995.4	9950.0	995.4	9959.0	984.3	9976.0	984.3	10000.0
GR	984.0	10049.0	981.9	10063.0	981.8	10154.0	981.8	10279.0	983.7	10291.0
GR	983.8	10364.0	983.8	10555.0	998.2	10570.0	998.2	10584.0		

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Effective Model Output  
AGUAFRIA.OUT

X1	6.640	16.0	9445.0	10575.0	165	135	150			
GR	999.3	9435.0	999.3	9445.0	985.5	9462.0	985.5	9574.0	984.5	9697.0
GR	984.3	9837.0	984.3	10000.0	984.2	10036.0	982.4	10053.0	982.4	10128.0
GR	982.4	10266.0	984.2	10280.0	984.2	10397.0	984.2	10558.0	998.4	10575.0
GR	998.4	10591.0								
X1	6.660	21.0	9466.0	10599.0	150	120	135			
GR	999.6	9455.0	999.6	9466.0	985.7	9484.0	985.7	9553.0	985.7	9682.0
GR	985.7	9830.0	985.3	9951.0	985.0	10000.0	985.0	10041.0	982.2	10057.0
GR	982.2	10126.0	982.2	10238.0	982.2	10265.0	984.6	10282.0	984.7	10388.0
GR	988.7	10400.0	989.9	10445.0	984.7	10459.0	984.7	10579.0	999.0	10599.0
GR	999.0	10608.0								
X1	6.690	17.0	9451.0	10585.0	145	100	125			
GR	1000.0	9442.0	1000.0	9451.0	985.4	9472.0	985.4	9554.0	985.4	9692.0
GR	985.3	9832.0	985.3	9934.0	984.9	10000.0	982.6	10017.0	982.6	10102.0
GR	982.2	10235.0	983.9	10255.0	984.0	10345.0	984.0	10490.0	984.3	10564.0
GR	998.8	10585.0	998.8	10598.0						
X1	6.710	24.0	9452.0	10585.0	130	115	125			
GR	1000.3	9441.0	1000.3	9452.0	984.3	9474.0	984.3	9574.0	984.5	9690.0
GR	984.5	9833.0	993.8	9846.0	994.6	9862.0	992.7	9868.0	992.9	9918.0
GR	995.5	9928.0	995.5	9936.0	985.7	9951.0	985.2	9979.0	981.5	9997.0
GR	981.5	10000.0	981.5	10111.0	981.5	10201.0	983.6	10225.0	983.7	10320.0
GR	984.2	10462.0	984.3	10562.0	999.1	10585.0	999.1	10594.0		
X1	6.730	18.0	9452.0	10584.0	110	110	110			
GR	1000.5	9442.0	1000.5	9452.0	985.1	9470.0	985.0	9536.0	985.0	9650.0
GR	985.0	9792.0	984.8	9898.0	984.8	9943.0	982.4	9962.0	982.4	10000.0
GR	982.4	10073.0	982.4	10180.0	984.0	10202.0	984.3	10322.0	984.7	10491.0
GR	984.7	10563.0	999.3	10584.0	999.3	10596.0				
X1	6.770	18.0	9443.0	10574.0	215	245	230			
GR	1002.1	9430.0	1002.1	9443.0	987.9	9463.0	988.1	9523.0	988.6	9649.0
GR	988.6	9757.0	985.6	9777.0	985.5	9916.0	985.2	9978.0	985.1	10000.0
GR	985.1	10034.0	987.4	10086.0	987.6	10180.0	987.8	10289.0	988.0	10428.0
GR	988.2	10555.0	1001.4	10574.0	1001.7	10590.0				
X1	6.790	23.0	9444.0	10573.0	110	110	110			
GR	1002.9	9429.0	1002.9	9444.0	988.8	9462.0	988.8	9545.0	987.7	9672.0
GR	985.3	9696.0	985.5	9796.0	984.7	9969.0	984.3	10000.0	987.2	10061.0
GR	987.5	10091.0	998.1	10103.0	998.1	10117.0	996.1	10126.0	996.2	10178.0
GR	998.5	10184.0	998.5	10191.0	987.8	10209.0	987.8	10320.0	987.8	10455.0
GR	988.1	10555.0	1002.2	10573.0	1002.2	10585.0				
X1	6.820	17.0	9444.0	10573.0	115	115	115			
GR	1002.7	9434.0	1002.7	9444.0	989.2	9465.0	987.3	9582.0	985.9	9607.0
GR	985.7	9745.0	985.9	9860.0	984.8	9990.0	984.8	10000.0	985.9	10065.0
GR	988.4	10076.0	988.4	10157.0	988.0	10268.0	988.0	10400.0	988.0	10557.0
GR	1001.0	10573.0	1001.0	10591.0						
1										
	22MAR11	10:59:26							PAGE	22
X1	6.890	16.0	9439.0	10577.0	365	365	365			
GR	1004.2	9428.0	1004.2	9439.0	989.9	9461.0	989.9	9574.0	989.9	9700.0
GR	989.8	9818.0	989.4	9954.0	989.4	9973.0	989.4	10000.0	989.4	10039.0
GR	989.4	10132.0	989.4	10266.0	989.4	10427.0	989.4	10558.0	1002.7	10577.0
GR	1002.7	10588.0								
X1	6.910	17.0	9430.0	10579.0	105	115	110			
GR	1002.8	9417.0	1002.8	9430.0	989.5	9452.0	989.9	9524.0	989.9	9677.0
GR	989.9	9807.0	989.5	9970.0	989.5	10000.0	989.5	10018.0	1000.2	10037.0
GR	1000.2	10125.0	989.8	10142.0	989.8	10236.0	989.8	10390.0	989.8	10561.0
GR	1002.7	10579.0	1002.7	10589.0						
X1	6.930	17.0	9413.0	10573.0	105	105	105			
GR	1004.8	9405.0	1004.8	9413.0	999.9	9417.0	999.9	9426.0	989.9	9442.0
GR	989.9	9572.0	989.9	9706.0	990.0	9833.0	990.1	9955.0	989.9	10000.0
GR	989.9	10053.0	989.9	10201.0	989.9	10359.0	990.1	10545.0	990.9	10558.0
GR	1003.9	10573.0	1003.9	10582.0						
X1	6.970	15.0	9405.0	10570.0	220	240	230			
GR	1004.1	9395.0	1004.2	9405.0	991.7	9423.0	991.3	9444.0	990.4	9703.0
GR	990.4	9859.0	990.4	10000.0	990.4	10050.0	990.4	10156.0	990.4	10291.0
GR	990.4	10417.0	990.4	10542.0	991.7	10552.0	1004.6	10570.0	1004.6	10583.0
X1	6.990	19.0	9400.0	10559.0	95	115	105			
GR	1003.3	9393.0	1003.4	9400.0	997.4	9411.0	997.3	9418.0	991.4	9429.0
GR	991.4	9534.0	991.1	9695.0	991.1	9871.0	991.1	10000.0	991.1	10072.0
GR	991.2	10186.0	991.3	10300.0	998.4	10313.0	998.4	10323.0	998.4	10404.0
GR	990.2	10418.0	990.2	10540.0	1003.5	10559.0	1004.0	10574.0		
X1	7.020	16.0	9433.0	10570.0	120	130	125			
GR	1004.3	9421.0	1004.5	9433.0	991.5	9455.0	991.5	9560.0	991.5	9711.0
GR	991.1	9854.0	989.1	9913.0	990.1	9991.0	990.1	10000.0	990.1	10068.0
GR	990.7	10175.0	991.3	10301.0	990.6	10427.0	990.5	10549.0	1004.0	10570.0
GR	1004.0	10583.0								
X1	7.060	15.0	9442.0	10559.0	210	235	225			
GR	1005.0	9419.0	1006.0	9442.0	993.3	9467.0	992.3	9545.0	992.1	9691.0
GR	990.7	9877.0	989.6	9894.0	990.1	10000.0	990.1	10124.0	991.5	10151.0

Effective Model Output  
AGUAFRIA.OUT

GR	991.9	10259.0	991.8	10389.0	991.8	10543.0	1004.8	10559.0	1004.8	10571.0
X1	7.080	18.0	9440.0	10563.0	110	110	110			
GR	1006.6	9440.0	1006.5	9456.0	991.7	9475.0	991.7	9583.0	991.7	9730.0
GR	991.7	9878.0	990.5	9895.0	990.5	9885.0	990.5	10000.0	990.5	10133.0
GR	992.2	10156.0	992.1	10278.0	1000.4	10293.0	1000.4	10375.0	991.7	10388.0
GR	991.7	10548.0	1005.6	10563.0	1005.6	10578.0				
X1	7.100	15.0	9440.0	10543.0	125	125	125			
GR	1006.2	9427.0	1006.3	9440.0	993.4	9459.0	993.4	9562.0	993.2	9687.0
GR	992.4	9860.0	990.9	9879.0	990.9	10000.0	991.0	10115.0	993.1	10133.0
GR	993.4	10239.0	993.0	10375.0	992.2	10527.0	1006.1	10543.0	1006.1	10555.0

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X1	7.200	16.0	9474.0	10558.0	515	490	500			
GR	1006.9	9461.0	1006.9	9474.0	991.9	9491.0	991.9	9591.0	992.5	9703.0
GR	992.5	9866.0	990.7	9888.0	991.7	9994.0	991.7	10000.0	991.7	10121.0
GR	993.0	10133.0	993.2	10236.0	993.2	10374.0	993.2	10534.0	1007.2	10558.0
GR	1007.5	10578.0								
X1	7.290	15.0	9456.0	10529.0	490	510	500			
GR	1008.9	9456.0	1008.9	9473.0	994.9	9490.0	994.7	9578.0	994.6	9691.0
GR	994.5	9806.0	993.4	9889.0	993.2	10000.0	993.2	10077.0	993.9	10117.0
GR	994.0	10230.0	994.0	10371.0	994.0	10488.0	1009.1	10529.0	1009.1	10546.0

X1	7.390	16.0	9499.0	10536.0	500	495	495			
GR	1008.8	9484.0	1008.8	9499.0	994.4	9516.0	993.9	9614.0	993.8	9735.0
GR	994.2	9841.0	994.8	9894.0	994.4	9985.0	994.2	10000.0	994.2	10064.0
GR	994.8	10155.0	994.8	10289.0	995.3	10433.0	995.4	10489.0	1009.9	10536.0
GR	1009.9	10556.0								

X1	7.490	13.0	9509.0	10525.0	575	515	515			
GR	1009.5	9493.0	1009.5	9509.0	995.2	9526.0	995.4	9612.0	995.6	9736.0
GR	995.5	9871.0	995.3	10000.0	995.3	10064.0	995.4	10173.0	995.7	10289.0
GR	995.7	10474.0	1010.9	10525.0	1010.9	10541.0				

X1	7.580	14.0	9499.0	10529.0	540	405	480			
GR	1010.3	9499.0	996.5	9536.0	995.9	9644.0	995.4	9797.0	995.4	9949.0
GR	995.4	10000.0	995.4	10048.0	995.4	10190.0	995.4	10311.0	995.4	10387.0
GR	996.7	10447.0	1006.7	10499.0	1010.9	10529.0	1011.0	10544.0		

X1	7.670	10.0	9515.0	10552.0	480	530	510			
X3	10									
GR	1009.9	9462.0	1009.9	9515.0	994.3	9533.0	994.4	9708.0	994.7	9960.0
GR	994.7	10000.0	995.0	10281.0	994.6	10496.0	1010.1	10552.0	1010.1	10575.0

X1	7.770	10.0	9490.0	10556.0	510	500	500			
X3	10									
GR	1010.5	9478.0	1010.5	9490.0	997.6	9510.0	996.8	9677.0	996.5	9878.0
GR	996.4	10000.0	996.4	10242.0	996.1	10496.0	1010.9	10556.0	1010.9	10577.0

X1	7.870	32.0	9450.0	10589.0	650	410	500			
X3	10									
GR	1015.4	8030.0	1016.3	8034.0	1016.3	8046.0	1008.8	8067.0	1009.2	8153.0
GR	1015.2	8187.0	1015.8	8254.0	1017.4	8372.0	1016.5	8511.0	1011.9	8561.0
GR	1009.6	8688.0	1010.7	8717.0	1008.3	8736.0	1007.3	8930.0	1004.2	9048.0
GR	1001.2	9145.0	997.2	9215.0	994.3	9277.0	1006.5	9342.0	1010.8	9374.0
GR	1010.5	9450.0	997.4	9476.0	997.5	9620.0	997.7	9849.0	997.8	9992.0
GR	997.8	10000.0	997.8	10178.0	998.1	10433.0	998.1	10560.0	1013.1	10589.0
GR	1013.1	10609.0	1011.2	10614.0						

X1	7.960	30.0	9337.0	10669.0	460	470	470			
X3	10									
GR	1018.5	8029.0	1009.6	8067.0	1009.8	8223.0	1009.8	8419.0	1009.8	8501.0
GR	1011.1	8512.0	1011.4	8546.0	1007.8	8561.0	1007.8	8722.0	1010.5	8735.0
GR	1009.9	8878.0	1008.2	9077.0	1006.3	9178.0	1002.1	9195.0	1013.4	9249.0
GR	1013.0	9337.0	1003.4	9350.0	1003.2	9364.0	999.3	9372.0	998.8	9604.0

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GR	998.8	9927.0	998.7	10000.0	998.7	10211.0	998.6	10526.0	998.6	10636.0
GR	1000.3	10640.0	1000.3	10655.0	1012.4	10669.0	1011.8	10711.0	1014.8	10765.0
X1	7.990	37.0	9293.0	10732.0	175	175	175			
X3	10									
GR	1012.2	8010.0	1013.2	8065.0	1014.0	8150.0	1012.5	8436.0	1010.7	8709.0
GR	1010.4	8948.0	1017.0	9058.0	1017.0	9110.0	1009.4	9176.0	1015.2	9236.0
GR	1014.9	9293.0	999.2	9338.0	999.2	9550.0	999.1	9925.0	999.1	9990.0
GR	999.1	10000.0	999.1	10303.0	999.3	10681.0	1014.8	10732.0	1017.3	10907.0
GR	1010.5	10932.0	1010.0	11152.0	1015.2	11167.0	1015.2	11213.0	1007.3	11242.0
GR	1007.1	11529.0	1007.2	11773.0	1006.9	11957.0	1007.1	12138.0	1007.1	12341.0
GR	1006.9	12504.0	1009.2	12604.0	1009.9	12677.0	1014.2	12703.0	1015.0	12810.0
GR	1016.3	12943.0	1016.3	12959.0						

NC .3 .5  
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\*\*\*\*\* INDIAN SCHOOL ROAD \*\*\*\*  
\*\*\*\*\* LOW CHORD = 1013.3 \*\*\*\*  
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X1	8.000	85	9235.5	10725.	50	50	50			
BT	68	9235.4	1021.3	1021.3	9235.5	1021.3	1013.3	9271.2	1021.3	1013.3

Effective Model Output  
AGUAFRIA.OUT

BT	9271.3	1021.3	1013.3	9285.3	1021.3	1013.3	9285.4	1021.3	1013.3	9362.9
BT	1021.3	1013.3	9363.0	1021.3	999.2	9377.0	1021.3	999.2	9377.1	1021.3
BT	1013.3	9452.9	1021.3	1013.3	9453.0	1021.3	999.2	9467.0	1021.3	999.2
BT	9467.1	1021.3	1013.3	9542.9	1021.3	1013.3	9543.0	1021.3	999.2	9557.0
BT	1021.3	999.2	9557.1	1021.3	1013.3	9632.9	1021.3	1013.3	9633.0	1021.3
BT	999.2	9647.0	1021.3	999.2	9647.1	1021.3	1013.3	9722.9	1021.3	1013.3
BT	9723.0	1021.3	999.2	9737.0	1021.3	999.2	9737.1	1021.3	1013.3	9812.9
BT	1021.3	1013.3	9813.0	1021.3	999.2	9827.0	1021.3	999.2	9827.1	1021.3
BT	1013.3	9902.9	1021.3	1013.3	9903.0	1021.3	999.2	9917.0	1021.3	999.2
BT	9917.1	1021.3	1013.3	9992.9	1021.3	1013.3	9993.0	1021.3	999.2	10007.0
BT	1021.3	999.2	10007.1	1021.3	1013.3	10082.9	1021.3	1013.3	10083.0	1021.3
BT	999.2	10097.0	1021.3	999.2	10097.1	1021.3	1013.3	10172.9	1021.3	1013.3
BT	10173.1	1021.3	999.2	10187.0	1021.3	999.2	10187.1	1021.3	1013.3	10262.9
BT	1021.3	1013.3	10263.0	1021.3	999.2	10277.0	1021.3	999.2	10277.1	1021.3
BT	1013.3	10352.8	1021.3	1013.3	10352.9	1021.3	999.2	10366.9	1021.3	999.2
BT	10367.1	1021.3	1013.3	10442.9	1021.3	1013.3	10443.0	1021.3	999.2	10457.0
BT	1021.3	999.2	10457.1	1021.3	1013.3	10532.9	1021.3	1013.3	10533.0	1021.3
BT	999.2	10547.0	1021.3	999.2	10547.1	1021.3	1013.3	10622.9	1021.3	1013.3
BT	10623.1	1021.3	999.2	10637.0	1021.3	999.2	10637.1	1021.3	1013.3	10725.0
BT	1021.3	1013.3	10725.1	1021.3	1021.3					
GR	1014.4	7828.0	1015.5	8173.0	1016.3	8411.0	1017.9	8735.0	1018.7	9144.0
GR	1018.6	9235.4	1013.3	9235.5	999.2	9263.1	999.2	9271.2	999.2	9271.3
GR	999.2	9285.3	999.2	9285.4	999.2	9362.9	999.2	9363.0	999.2	9377.0
GR	999.2	9377.1	999.2	9452.9	999.2	9453.0	999.2	9467.0	999.2	9467.1
GR	999.2	9542.9	999.2	9543.0	999.2	9557.0	999.2	9557.1	999.2	9632.9
GR	999.2	9633.0	999.2	9647.0	999.2	9647.1	999.2	9722.9	999.2	9723.0
GR	999.2	9737.0	999.2	9737.1	999.2	9812.9	999.2	9813.0	999.2	9827.0
GR	999.2	9827.1	999.2	9902.9	999.2	9903.0	999.2	9917.0	999.2	9917.1
GR	999.2	9992.9	999.2	9993.0	999.2	10007.0	999.2	10007.1	999.2	10082.9
GR	999.2	10083.0	999.2	10097.0	999.2	10097.1	999.2	10172.9	999.2	10173.0
GR	999.2	10187.0	999.2	10187.1	999.2	10262.9	999.2	10263.0	999.2	10277.0
GR	999.2	10277.1	999.2	10352.8	999.2	10352.9	999.2	10366.9	999.2	10367.0
GR	999.2	10442.9	999.2	10443.0	999.2	10457.0	999.2	10457.1	999.2	10532.9

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GR	999.2	10533.0	999.2	10547.0	999.2	10547.1	999.2	10622.9	999.2	10623.0
GR	999.2	10637.0	999.2	10637.1	999.2	10697.5	1013.3	10725.0	1021.3	10725.1
GR	1018.6	10725.2	1016.4	10735.0	1017.3	10914.0	1016.9	11234.0	1012.8	11759.0
GR	1013.2	12195.0	1013.8	12510.0	1014.9	12742.0	1016.1	13028.0	1018.6	13458.0

X1 8.010 0 75 75 75  
X2 1

NC	.040	.040	.030	.1	.3					
ET	8.030	9.1	9.1					9440	10904	
X1	8.030	94	9441.4	10903.2	50	50	50			
GR	1011.7	8710.5	1012.8	8718.2	1013.7	8732.5	1013.6	8744.9	1016.9	8752.5
GR	1016.5	8856.3	1014.7	8904.7	1011.3	8954.7	1010.4	9004.7	1009.5	9099.6
GR	1009.4	9154.7	1011.8	9200.0	1011.6	9204.3	1018.9	9237.5	1014.1	9397.9
GR	1015.3	9413.3	1012.7	9430.3	1009.8	9441.4	1004.9	9455.1	1001.6	9461.7
GR	1000.9	9490.5	1000.4	9495.2	1000.5	9505.4	1001.2	9512.6	1001.1	9554.9
GR	1002.2	9591.9	1004.8	9620.1	1001.7	9628.2	999.2	9638.0	1000.1	9699.2
GR	1005.0	9715.3	1003.6	9733.5	1003.6	9744.0	1002.6	9761.5	1001.4	9804.9
GR	1001.7	9853.5	1002.3	9862.5	1001.8	9871.1	1002.3	9882.1	1001.3	9889.3
GR	999.6	10018.0	1000.4	10058.4	1001.9	10071.8	1002.1	10133.7	1001.2	10162.3
GR	1002.5	10182.5	1000.9	10355.1	1001.5	10362.3	1000.8	10682.3	1000.3	10855.3
GR	999.9	10860.2	1000.6	10875.4	1013.0	10903.2	1013.1	10905.8	1015.5	10910.0
GR	1014.9	10917.6	1015.0	10957.1	1015.6	10985.7	1021.7	10997.8	1019.0	11007.8
GR	1016.2	11028.0	1019.4	11045.0	1018.5	11058.5	1020.0	11111.7	1021.3	11134.3
GR	1021.4	11247.1	1020.8	11271.9	1021.0	11291.7	1020.1	11305.4	1020.8	11315.4
GR	1021.2	11342.9	1020.1	11357.0	1019.9	11405.4	1020.3	11416.6	1018.2	11423.7
GR	1018.0	11445.1	1018.8	11456.4	1012.3	11470.5	1008.8	11479.6	1007.7	11555.5
GR	1008.3	11805.6	1008.9	11810.7	1008.1	11905.6	1008.5	12103.4	1009.9	12109.8
GR	1009.1	12115.7	1008.1	12368.4	1008.7	12390.2	1011.4	12395.9	1012.5	12409.6
GR	1013.7	12413.9	1014.6	12465.5	1013.6	12563.0	1014.3	12651.6		

END LEFT LEVEE SECTION 8.105

ET	8.105	9.1	7.1				9470	10980	9381	10980
X1	8.105	91	9493.9	10978.6	280	620	397.59			
GR	1015.2	8211.4	1015.3	8277.1	1010.8	8330.6	1009.3	8341.9	1009.3	8372.5
GR	1011.2	8392.0	1011.2	8467.9	1009.9	8559.8	1009.8	8618.0	1009.3	8629.1
GR	1008.8	8657.4	1008.1	8664.5	1006.7	8671.1	1005.9	8676.7	1005.3	8685.7
GR	1008.0	8694.0	1007.4	8712.9	1007.2	8759.6	1007.6	8767.4	1007.3	8945.8
GR	1007.7	8986.4	1007.0	9027.6	1006.6	9098.5	1006.1	9130.7	1007.5	9189.4
GR	1011.7	9241.0	1013.1	9281.5	1014.3	9352.7	1015.1	9381.7	1004.4	9401.0
GR	1002.0	9404.5	1002.1	9413.6	1000.7	9416.1	1000.8	9423.2	1002.3	9432.7
GR	1001.8	9493.9	1001.9	9540.9	1001.0	9545.5	1000.9	9563.5	1001.1	9565.1
GR	1001.5	9581.8	1002.2	9583.6	1002.9	9587.6	1002.8	9594.1	1003.1	9599.5
GR	1004.8	9613.8	1002.9	9623.8	1001.5	9649.6	1002.2	9701.5	1001.6	9791.9
GR	1002.5	9801.8	1002.6	9835.3	1001.6	9840.4	1001.1	9856.5	1003.0	9863.7
GR	1001.8	9909.1	1002.1	9961.6	1002.0	9995.6	1001.0	10012.9	1000.7	10057.2
GR	1000.8	10168.4	1000.5	10169.9	1002.7	10181.4	1003.2	10220.5	1002.5	10428.1
GR	1001.9	10536.6	1002.1	10732.3	1001.6	10813.5	1001.7	10895.2	1000.8	10949.7
GR	1001.5	10964.0	1014.4	10978.6	1014.9	10997.9	1001.1	11037.6	1000.5	11077.1
GR	1001.9	11081.4	1003.0	11094.1	1002.0	11108.9	1001.7	11110.1	1005.8	11120.6
GR	1010.4	11129.8	1008.8	11140.0	1008.9	11273.0	1008.4	11417.4	1009.5	11426.7
GR	1008.8	11471.3	1010.6	11534.8	1011.0	11604.6	1010.7	11613.6	1009.8	11618.7
GR	1009.6	11624.4								

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Effective Model Output  
AGUAFRIA.OUT

ET	8.198	9.1	9.1					9458.6	10971.1
X1	8.198	92	9458.7	10971.0	420	620	490.43		
GR	1013.7	7538.8	1013.7	7659.7	1013.0	7679.9	1012.1	7681.9	1012.2
GR	1009.4	7704.2	1009.4	7707.5	1011.7	7718.2	1011.0	7757.7	1010.6
GR	1009.9	7842.6	1009.7	7956.3	1010.5	8028.5	1010.8	8229.1	1011.2
GR	1011.0	8283.7	1011.2	8445.3	1011.6	8447.8	1011.8	8453.3	1011.5
GR	1010.7	8469.4	1010.2	8484.3	1010.7	8495.1	1011.0	8542.9	1009.4
GR	1007.8	8568.0	1007.4	8575.1	1007.6	8611.0	1006.2	8674.1	1006.4
GR	1005.6	8837.3	1005.5	8883.8	1004.3	8938.3	1004.6	9047.4	1003.7
GR	1003.1	9193.7	1003.0	9320.6	1003.2	9389.6	1016.4	9413.0	1016.7
GR	1014.9	9458.7	1006.2	9474.2	1003.0	9479.0	1002.7	9484.7	1003.3
GR	1002.2	9512.1	1002.6	9529.9	1004.0	9536.6	1003.7	9541.4	1003.4
GR	1004.0	9620.4	1004.1	9647.5	1003.4	9715.0	1002.5	9730.9	1002.0
GR	1003.0	9851.4	1002.2	9972.1	1002.5	9983.7	1002.0	10053.3	1001.5
GR	1002.5	10093.2	1003.1	10143.0	1002.7	10193.2	1003.7	10230.0	1002.2
GR	1001.9	10266.0	1003.7	10292.6	1003.3	10497.1	1002.8	10629.5	1003.2
GR	1003.0	10958.7	1015.8	10971.0	1015.7	10984.6	1015.3	10990.1	1011.0
GR	1010.7	11051.4	1010.2	11065.9	1010.6	11074.9	1010.2	11120.5	1010.3
GR	1009.3	11167.8	1009.5	11177.5	1007.9	11194.6	1007.4	11229.6	1007.8
GR	1011.7	11279.9	1012.3	11327.5	1011.2	11391.5	1012.2	11447.8	1012.1
GR	1012.9	11568.6	1013.0	11705.6					11502.4

END RIGHT LEVEE SECTION 8.325

NC	.040	.040	.035						
ET	8.325	9.1	7.1				9480	10990	9479.9
X1	8.325	93	9480.0	10949.9	645	705	668.82		11053.1
GR	1015.3	6600.1	1014.6	6655.8	1015.0	6663.3	1014.8	6675.4	1013.7
GR	1009.9	6684.3	1010.0	6694.9	1011.6	6701.8	1014.5	6711.0	1012.5
GR	1012.8	6732.9	1009.6	6773.6	1009.5	6837.0	1012.4	6859.8	1012.3
GR	1014.8	6917.9	1011.7	6948.6	1011.9	6977.1	1010.9	7004.1	1011.1
GR	1011.2	7261.3	1012.3	7279.9	1011.6	7284.0	1012.0	7300.9	1012.9
GR	1011.7	7393.0	1014.3	7409.1	1012.7	7419.8	1011.4	7424.2	1011.0
GR	1011.5	7664.8	1011.0	7705.5	1010.4	7715.3	1010.7	7825.2	1011.6
GR	1010.8	7850.5	1011.2	7898.1	1012.1	7902.3	1011.7	7910.0	1010.1
GR	1012.2	8164.7	1012.3	8353.8	1011.4	8392.6	1011.1	8615.5	1006.9
GR	1006.2	8914.6	1006.2	8962.5	1004.6	9026.8	1004.1	9113.8	1004.7
GR	1004.0	9225.0	1005.3	9336.3	1005.6	9423.4	1020.7	9444.8	1020.9
GR	1017.9	9472.2	1013.1	9480.0	1010.0	9483.5	1006.6	9491.1	1005.7
GR	1006.8	9513.0	1005.9	9517.6	1005.3	9553.1	1007.0	9558.9	1005.5
GR	1004.8	9589.2	1002.1	9603.3	1002.6	9761.4	1003.7	9776.2	1004.9
GR	1004.2	9892.7	1004.9	9969.2	1005.8	10170.9	1005.7	10393.5	1005.5
GR	1005.0	10746.6	1005.6	10896.0	1005.3	10922.7	1004.4	10932.4	1005.1
GR	1004.7	10949.9	1005.2	11032.4	1018.0	11053.0	1016.5	11129.1	1017.1
GR	1016.3	11344.8	1015.9	11561.9	1015.1	11611.0	1015.6	11784.5	1015.1
GR	1014.1	12074.7	1015.4	12203.0	1015.0	12332.0			12056.0

ET	8.433	9.1	7.1				9250	10975	9009.5
X1	8.433	87	9583.1	10597.5	510	660	572.54		11000
GR	1016.6	5737.3	1015.2	5913.0	1011.2	5923.1	1011.2	5929.8	1015.2
GR	1013.0	6101.5	1013.1	6236.2	1012.0	6437.5	1011.5	6682.9	1010.8
GR	1011.3	6918.9	1013.3	6929.4	1014.0	6941.7	1012.7	6944.3	1011.1
GR	1011.1	6957.5	1012.4	6964.4	1010.1	6973.7	1011.4	7022.6	1011.2
GR	1010.3	7053.9	1010.3	7111.1	1011.8	7151.3	1011.0	7155.6	1012.0

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GR	1011.6	7613.9	1012.1	7874.2	1013.4	8117.3	1013.0	8158.4	1014.3
GR	1014.4	8173.5	1012.8	8179.0	1013.0	8214.2	1014.4	8284.9	1013.6
GR	1012.9	8294.9	1014.2	8304.5	1012.9	8390.4	1013.0	8565.3	1008.1
GR	1006.0	8952.1	1020.6	8973.4	1020.7	9009.5	1006.2	9025.2	1006.9
GR	1005.9	9153.1	1007.9	9194.9	1009.0	9401.2	1008.8	9516.9	1009.7
GR	1008.5	9529.4	1008.8	9564.7	1010.0	9583.1	1005.0	9600.1	1005.0
GR	1006.4	9786.9	1006.6	9828.4	1005.7	9854.9	1007.7	9870.6	1008.1
GR	1008.3	10123.7	1006.4	10265.7	1006.8	10307.4	1006.3	10480.7	1009.6
GR	1012.5	10519.8	1013.8	10597.5	1013.5	10766.3	1012.5	10795.4	1013.5
GR	1011.6	10827.2	1010.6	10883.1	1011.5	10884.0	1011.7	10991.4	1013.3
GR	1011.9	11154.1	1013.8	11176.2	1014.1	11233.5	1013.1	11268.3	1013.7
GR	1013.2	11293.3	1012.3	11294.1	1017.5	11322.2	1018.2	11337.1	1017.0
GR	1015.0	11376.3	1014.8	11586.0					11359.4

GR POINTS MODIFIED - BOTTOM OF GRAVEL MINE RAISED TO ELIMINATE NON-EFFECTIVE FLOW AREA BETWEEN SECTIONS 8.534 TO 8.875.

ET	8.534	9.1	7.1				9010	10965	8509.0
X1	8.534	73	9067.4	10611.9	540	525	531.32		11252
GR	1016.7	5726.8	1016.6	5763.5	1015.5	5775.8	1014.8	5877.7	1017.3
GR	1014.2	5891.2	1016.4	5898	1014.5	5927.2	1013.0	6247	1012.6
GR	1012.5	6732.2	1011.3	6733.8	1011.3	6901.4	1012.5	6958.1	1010.0
GR	1012.0	6999.2	1012.0	7004.3	1013.9	7010.6	1012.0	7019.3	1011.8
GR	1013.3	7032.5	1011.6	7034.8	1011.6	7197.8	1014.5	7209.2	1013.3
GR	1011.1	7233.8	1011.1	7239.7	1014.1	7245.5	1012.0	7302.1	1012.5
GR	1013.1	7931	1014.4	8236.4	1014.9	8390.2	1016.3	8399	1015.2
GR	1014.2	8464	1016.0	8470	1017.7	8509	1013.9	8513.3	1009.9
GR	1009.6	8679.7	1007.8	8697.3	1008.1	8905.8	1010.6	8914.7	1011.7
GR	1010.4	9053.5	1013.0	9067.4	1011.8	9146.7	1010	9160.5	1010
GR	1010	9495.3	1010	9500.2	1010	9618.6	1010	9636.3	1010
GR	1010	10072.1	1011.2	10082.5	1012.0	10395	1012.2	10611.9	1010.2
GR	1010.9	10786.3	1010.0	10789.7	1008.5	11095.7	1014.8	11122	1016.1
GR	1015.0	11309.6	1014.9	11425.9	1013.8	11604.2	1020.3	11624	1020.1
GR	1011.6	11672.2	1014.1	11684	1013.2	11761.9			11649

ET	8.646	9.1	7.1				9050	10990	8692.3
X1	8.646	70	9268.7	10600.8	575	600	591.78		11500
GR	1020.3	6340.6	1011.7	6380.5	1011.0	6388.0	1011.7	6396.1	1015.7
GR	1015.9	6445.0	1015.3	6449.8	1017.2	6457.9	1015.1	6463.3	1016.2

Effective Model Output  
AGUAFRIA.OUT

GR	1014.9	6474.9	1014.3	6777.0	1013.6	7077.1	1013.7	7402.3	1013.4	7653.5
GR	1015.4	7683.2	1012.5	7688.5	1013.1	7694.1	1015.0	7700.3	1014.1	7761.6
GR	1015.5	8095.2	1016.1	8423.2	1016.6	8671.3	1016.0	8681.1	1017.4	8692.3
GR	1015.9	8700.1	1015.8	8713.0	1016.3	8715.4	1016.8	8736.5	1014.3	8822.4
GR	1010.8	8836.4	1007.8	8844.4	1008.8	8896.3	1009.9	9024.4	1011.0	9071.9
GR	1011.0	9123.5	1011.9	9132.4	1012.2	9190.9	1013.4	9215.9	1013.6	9250.3
GR	1013.0	9268.7	1010.6	9280.0	1010.6	9560.7	1010.6	10458.1	1012.2	10460.3
GR	1013.3	10476.8	1014.6	10600.8	1013.3	10889.3	1011.1	11061.5	1010.4	11076.0
GR	1011.0	11142.3	1010.2	11288.1	1017.1	11330.1	1017.1	11397.0	1017.8	11413.4
GR	1017.0	11472.0	1017.2	11500.8	1016.4	11515.0	1016.6	11562.3	1017.5	11591.2
GR	1015.8	11630.0	1015.2	11660.5	1015.4	11680.8	1020.0	11722.9	1015.9	11831.0
GR	1016.0	11907.6	1017.1	11944.5	1015.6	12002.5	1022.8	12022.2	1022.7	12031.8

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ET	8.768	9.1	7.1				9275	11105	8182.6	11500
X1	8.768	73	9584.7	10102.8	620	640	641.67			
GR	1021.5	6820.4	1020.9	6871.9	1018.3	6891.7	1019.6	6913.5	1019.1	6923.6
GR	1016.2	6931.0	1019.3	6940.2	1017.2	7099.1	1014.8	7135.2	1015.0	7168.0
GR	1016.7	7199.0	1014.7	7325.5	1015.5	7354.6	1015.1	7667.5	1015.3	8018.9
GR	1016.3	8177.8	1017.4	8182.6	1016.2	8185.7	1014.8	8221.7	1016.6	8233.2
GR	1016.4	8609.8	1017.3	8912.1	1018.3	8921.6	1017.4	8929.1	1016.3	9053.3
GR	1018.5	9082.6	1017.0	9103.2	1016.2	9147.4	1014.6	9168.7	1011.9	9186.9
GR	1010.1	9230.0	1010.6	9376.9	1014.4	9399.6	1015.0	9575.4	1014.3	9584.7
GR	1011.7	9596.2	1011.9	9616.7	1014.9	9627.9	1014.2	9882.6	1008.4	9901.1
GR	1008.4	10075.9	1015.8	10102.8	1015.6	10460.9	1014.6	10627.3	1013.9	10650.0
GR	1013.9	11250.5	1017.1	11275.3	1018.8	11523.5	1017.7	11656.2	1018.3	11826.0
GR	1017.7	11888.7	1019.3	11923.5	1018.0	11936.7	1017.8	12001.1	1017.8	12505.3
GR	1018.9	12523.0	1018.1	12551.7	1017.8	12561.4	1017.8	12885.4	1027.8	12901.0
GR	1028.2	12921.5	1023.3	12934.8	1022.6	12954.5	1017.8	12997.1	1017.8	13068.9
GR	1021.4	13136.0	1022.6	13179.3	1028.0	13212.5	1028.2	13251.1	1022.8	13271.3
GR	1022.5	13295.0	1026.9	13348.6	1027.0	13388.5				

ET	8.875	9.1	7.1				9525	11295	8600	11500
X1	8.875	79	9641.5	10398.6	570	530	565.21			
GR	1020.4	6492.6	1019.2	6725.0	1018.5	6925.4	1018.1	7145.0	1017.6	7326.2
GR	1017.0	7408.2	1016.1	7412.1	1016.7	7419.3	1016.1	7477.7	1016.4	7711.3
GR	1016.7	7927.3	1017.6	8127.7	1017.2	8328.0	1017.8	8528.4	1017.3	8617.9
GR	1017.5	8633.8	1018.4	8637.8	1017.7	8642.2	1017.0	8705.4	1017.6	8778.9
GR	1017.5	8979.3	1018.2	9179.7	1018.7	9231.7	1020.4	9250.6	1018.9	9256.7
GR	1018.6	9277.2	1019.1	9283.7	1018.6	9287.1	1016.6	9336.7	1015.8	9416.6
GR	1017.8	9446.4	1017.2	9470.6	1018.1	9540.1	1013.8	9559.1	1012.8	9585.9
GR	1013.8	9616.3	1016.3	9641.5	1014.5	9679.2	1014.5	9718.3	1012.6	9729.1
GR	1012.2	9760.2	1013.1	9769.7	1013.1	9792.9	1009.1	9811.5	1009.5	9856.2
GR	1009.1	10014.4	1015.2	10033.8	1016.0	10148.6	1016.8	10177.4	1017.3	10398.6
GR	1017.2	10606.5	1017.2	11316.1	1018.6	11371.3	1020.2	11508.6	1017.3	11625.4
GR	1017.9	11724.1	1019.3	11820.7	1019.4	11859.1	1019.0	11881.1	1019.3	11975.9
GR	1018.8	12034.4	1018.3	12056.7	1019.3	12092.8	1019.6	12151.2	1020.8	12281.6
GR	1019.8	12354.5	1020.0	12384.9	1018.3	12409.3	1018.7	12439.9	1023.9	12473.2
GR	1020.6	12496.3	1020.3	12529.8	1022.5	12562.1	1021.8	12579.5	1022.7	12601.1
GR	1025.6	12635.2	1026.8	12660.7	1027.8	12709.1	1027.6	12721.7		

ET	8.992	9.1	7.1				9770	11465	9300	11545
X1	8.992	95	9819.1	11458.9	660	470	619.79			
GR	1019.7	6650.5	1019.9	6869.8	1019.3	7088.8	1018.3	7308.1	1018.1	7357.4
GR	1018.4	7405.7	1018.1	7504.7	1018.5	7653.7	1018.2	7853.7	1018.0	8053.8
GR	1018.1	8264.5	1018.4	8468.0	1018.5	8703.9	1018.7	8903.9	1019.0	9027.4
GR	1019.5	9087.0	1021.0	9090.7	1020.7	9100.0	1019.3	9109.2	1020.1	9296.8
GR	1021.5	9328.8	1020.5	9349.7	1020.0	9438.9	1020.1	9504.0	1019.5	9556.4
GR	1017.3	9599.3	1018.2	9666.3	1018.3	9706.1	1019.2	9732.7	1017.7	9759.7
GR	1018.5	9768.4	1017.8	9819.1	1009.1	9833.6	1009.0	9846.9	1008.1	9861.1
GR	1010.3	9909.7	1010.7	9990.4	1008.9	10005.9	1008.8	10022.3	1016.4	10042.0
GR	1016.9	10052.9	1015.9	10160.6	1016.0	10270.5	1016.5	10316.7	1016.2	10350.3
GR	1018.0	10379.5	1019.3	10546.0	1017.0	10601.9	1014.8	10621.9	1014.4	10655.5
GR	1015.3	10874.6	1016.7	10991.6	1015.2	11039.4	1015.3	11125.6	1017.1	11151.2
GR	1016.3	11204.2	1016.4	11261.7	1018.9	11299.8	1017.9	11310.6	1018.5	11319.2
GR	1018.0	11328.3	1016.3	11336.4	1017.5	11339.8	1018.8	11349.2	1016.2	11362.2
GR	1017.6	11368.0	1017.7	11375.3	1016.4	11385.1	1021.2	11407.1	1019.8	11426.3

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GR	1019.0	11458.9	1017.6	11474.7	1016.3	11480.5	1015.1	11493.3	1021.9	11515.7
GR	1023.5	11522.7	1024.3	11529.3	1026.1	11539.3	1026.6	11545.6	1025.5	11561.6
GR	1016.2	11587.4	1016.1	11604.1	1022.6	11633.5	1023.3	11713.8	1021.5	11863.3
GR	1022.4	11891.7	1022.0	11904.7	1020.8	11918.2	1020.0	11940.3	1020.6	12044.9
GR	1022.2	12097.0	1025.2	12129.3	1025.1	12132.3	1028.6	12182.4	1028.4	12234.4

ET	9.098	9.1	7.1				9820	11560	9707.9	11720.1
X1	9.098	94	9821	11545.5	630	235	561.62			
GR	1021.9	6807.8	1021.3	6864.6	1021.4	7066.3	1021.4	7114.7	1020.6	7164.9
GR	1020.8	7264.7	1020.2	7464.7	1019.6	7614.7	1020.3	7814.7	1020.2	8014.7
GR	1020.4	8114.8	1019.8	8314.8	1020.0	8514.8	1020.1	8714.8	1020.1	8964.8
GR	1020.3	9171.9	1020.6	9291.9	1021.1	9325.4	1022.0	9334.4	1022.1	9363.7
GR	1020.5	9369.4	1020.2	9374.6	1019.9	9455.5	1020.7	9471.3	1022.3	9498.9
GR	1021.8	9509	1021.8	9528.1	1021.3	9549.4	1021.3	9566.9	1021.6	9575.1
GR	1020.3	9619.8	1020.8	9653.5	1021.4	9666.6	1022.8	9720.5	1022.7	9727.9
GR	1021.7	9738.3	1021.4	9749.5	1020.6	9760.4	1020.5	9773.2	1019.1	9795.7
GR	1018.2	9816.6	1015.8	9821	1011.5	9833.6	1012.2	9869.4	1012.1	9886.2
GR	1011.4	9898.2	1011.2	9921.7	1009.9	9955.1	1011.1	9974.7	1011.9	10000.4
GR	1014.3	10024.5	1015.0	10112.5	1016.2	10171	1016.4	10207.6	1016.8	10229.8
GR	1017.1	10301.4	1016.7	10331	1016.6	10494.3	1017.2	10533.4	1017.0	10584
GR	1016.4	10616.2	1015.6	10633.7	1015.6	10685.2	1016.6	10716.6	1016.1	10739.1

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GR	1016.0	10826.7	1017.0	10878.7	1016.9	10887.6	1018.2	10938.2	1019.4	10994.9
GR	1018.9	11045.5	1019.7	11129.1	1019.6	11141.2	1016.5	11168.1	1016.2	11174.1
GR	1017.3	11246	1016.2	11292.5	1016.6	11337.4	1017.7	11350.3	1017.6	11362.9
GR	1016.6	11393.7	1017.4	11477.6	1016.6	11483.7	1016.3	11494.9	1016.3	11509.2
GR	1015.2	11534.2	1017.9	11545.5	1028.0	11575.1	1026.8	11593.1	1026.1	11598.7
GR	1025.4	11622.1	1024.2	11652.9	1023.9	11699.1	1024.3	11740.1		

NC				0.3	0.5				9836	11608
ET	9.177	9.11	9.11							

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\*\*\*\*\* CAMELBACK ROAD \*\*\*\*\*  
\*\*\*\*\* LOW CHORD = 1027.5 \*\*\*\*\*  
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X1	9.177	96	9881.1	11585.5	460	220	415.85			
GR	1022.2	7340.9	1021.8	7440.5	1022.0	7483.4	1022.5	7500.0	1022.4	7527.2
GR	1023.6	7799.5	1023.7	7951.3	1023.2	8104.6	1023.6	8218.2	1023.9	8224.3
GR	1023.5	8230.9	1024.6	8558.6	1024.6	8768.3	1025.3	8924.8	1025.1	9007.6
GR	1026.3	9168.4	1026.9	9387.9	1027.9	9417.0	1027.0	9426.1	1027.2	9431.5
GR	1027.8	9434.5	1027.9	9438.0	1028.5	9440.8	1027.8	9455.7	1027.4	9499.0
GR	1027.8	9565.0	1027.6	9567.1	1027.5	9582.7	1028.7	9601.7	1029.1	9632.8
GR	1030.5	9694.1	1030.2	9695.0	1030.6	9704.7	1031.0	9759.9	1030.9	9784.3
GR	1032.0	9813.0	1032.7	9816.8	1032.9	9820.1	1031.9	9823.4	1032.8	9827.4
GR	1033.1	9836.8	1032.8	9851.7	1032.5	9856.2	1027.5	9866.6	1023.7	9881.1
GR	1018.1	9912.0	1017.7	9923.7	1015.8	9930.3	1015.5	9935.3	1012.4	9944.5
GR	1010.5	9950.9	1010.4	9968.7	1012.5	9981.2	1012.8	9985.0	1012.4	10002.2
GR	1014.8	10040.1	1015.2	10051.5	1013.9	10066.8	1011.9	10101.8	1013.2	10123.1
GR	1013.8	10151.5	1016.3	10183.9	1017.3	10200.8	1017.8	10326.0	1017.2	10584.0
GR	1017.4	10636.5	1017.2	10750.2	1017.5	10835.2	1018.2	10935.4	1018.3	11133.6
GR	1018.0	11144.4	1018.2	11184.1	1018.2	11284.1	1017.2	11392.1	1017.6	11450.5
GR	1017.9	11525.0	1017.4	11536.8	1017.0	11539.9	1017.1	11558.3	1024.7	11585.5
GR	1027.6	11598.0	1030.9	11605.7	1031.1	11608.1	1030.4	11612.9	1030.0	11620.3
GR	1031.2	11638.6	1030.4	11642.8	1030.7	11651.3	1030.2	11682.9	1030.0	11717.2
GR	1030.2	11723.4	1030.0	11724.9	1029.4	11807.5	1029.5	11836.6	1028.6	11873.6

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GR	1028.8	11888.0								
ET	9.191	9.11	9.11					9850	11610	
SB	1.05	1.56	2.70	0	1650	84.00	18351.47	3	1016	1016
X1	9.191	90	9854.5	11606.9	60	60	60			
X2	0	0	1	1031.80	1034.20	0	0	1.33	0	0
BT	9	9870.4	1034.2	1034.2	9870.5	1037.0	1027.5	10215.2	1039.8	1030.3
BT	10445	1040.8	1031.3	10733.0	1041.3	1031.8	11020.0	1040.8	1031.3	11250.0
BT	1039.8	1030.3	11593.0	1037.0	1027.5	11593.1	1034.2	1034.2		
GR	1033.3	6999.8	1033.2	7319.4	1032.8	7624.1	1032.7	8051.3	1031.8	8358.6
GR	1031.6	8501.5	1031.6	8665.0	1031.2	8725.8	1031.1	8856.7	1030.1	9059.7
GR	1030.2	9127.5	1029.9	9182.0	1030.3	9186.0	1030.0	9239.0	1030.4	9249.4
GR	1029.2	9395.3	1029.6	9413.7	1029.4	9419.5	1030.1	9480.1	1029.9	9565.1
GR	1029.1	9623.4	1030.2	9653.0	1032.0	9822.5	1032.4	9823.8	1032.5	9854.5
GR	1029.0	9868.0	1027.8	9870.5	1018.1	9905.4	1017.7	9915.3	1015.9	9927.8
GR	1015.7	9938.6	1013.6	9945.9	1010.7	9970.2	1012.8	9998.2	1015.7	10071.3
GR	1014.0	10099.2	1013.1	10139.0	1012.8	10170.8	1013.3	10213.5	1013.2	10228.3
GR	1018.0	10288.2	1017.3	10530.4	1017.5	10835.0	1018.0	11007.0	1018.7	11075.1
GR	1018.8	11128.3	1017.5	11181.0	1017.4	11230.5	1018.1	11279.2	1017.6	11430.5
GR	1018.2	11472.8	1020.1	11493.0	1020.2	11499.3	1018.0	11518.6	1017.8	11554.5
GR	1024.7	11581.1	1024.9	11583.0	1028.8	11594.1	1032.3	11606.9	1032.2	11634.1
GR	1032.5	11637.5	1031.8	11641.8	1031.9	11649.6	1031.6	11652.4	1030.4	11765.3
GR	1030.0	11851.2	1030.4	11885.7	1028.4	12200.0	1027.7	12508.0	1026.9	12840.4
GR	1025.9	13086.5	1026.2	13099.1	1025.6	13298.1	1025.9	13302.6	1026.1	13610.1
GR	1025.4	13729.3	1025.6	13962.8	1025.2	14019.7	1024.9	14324.8	1025.3	14457.7
GR	1025.7	14481.6	1025.6	14555.3	1024.8	14666.7	1025.3	15020.4	1025.3	15336.7
GR	1025.2	15450.6	1025.4	15458.1	1025.1	15575.6	1025.2	15660.3	1024.8	15703.7

NC	.05	.05	.035							
ET	9.198	9.1	9.1					9862.4	11582.2	
X1	9.198	93	9885.6	11582.1	34	34	34.15			
GR	1026.6	7836.5	1025.5	8138.3	1025.2	8448.0	1024.0	8777.4	1024.5	8879.8
GR	1023.9	8901.2	1024.0	9145.3	1023.6	9224.5	1025.0	9257.4	1024.6	9318.5
GR	1025.3	9373.2	1025.1	9389.6	1025.7	9394.3	1024.4	9400.5	1023.1	9414.1
GR	1023.4	9420.3	1025.1	9433.7	1026.0	9437.9	1026.1	9478.8	1024.3	9510.9
GR	1024.4	9534.6	1025.5	9572.6	1024.1	9584.3	1023.6	9595.7	1023.5	9636.3
GR	1022.9	9645.1	1031.1	9691.6	1031.0	9710.9	1030.2	9729.1	1029.9	9777.9
GR	1031.0	9862.4	1022.5	9885.6	1017.9	9902.0	1016.2	9922.4	1016.0	9934.4
GR	1013.6	9944.1	1011.1	9964.8	1011.4	9979.3	1012.9	10000.4	1016.0	10088.6
GR	1014.2	10118.3	1014.6	10129.7	1013.2	10281.2	1017.9	10328.8	1017.3	10528.1
GR	1017.5	10789.5	1019.2	10836.2	1019.6	11137.8	1019.4	11277.6	1017.7	11294.1
GR	1017.2	11428.1	1017.9	11468.2	1021.3	11496.3	1017.7	11518.9	1018.4	11557.4
GR	1024.1	11582.1	1027.7	11594.3	1026.6	11607.2	1024.1	11621.9	1023.4	11631.1
GR	1021.6	11836.6	1022.0	11878.1	1023.5	11902.4	1021.6	11968.3	1021.1	12187.7
GR	1021.6	12430.8	1020.8	12483.9	1021.2	12515.9	1020.4	12530.4	1021.2	12548.8
GR	1021.4	12628.9	1020.9	12659.6	1020.3	12668.0	1021.9	12677.0	1020.7	12693.6
GR	1019.1	12706.7	1019.4	12775.6	1020.4	12798.3	1020.7	12909.0	1018.4	12988.9
GR	1017.9	13095.3	1018.6	13128.6	1018.3	13204.2	1018.6	13231.1	1023.2	13240.2
GR	1023.6	13246.0	1023.0	13269.5	1024.5	13273.6	1018.9	13290.3	1018.3	13348.5
GR	1016.6	13365.6	1017.7	13419.1	1017.6	13538.1				

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ET	9.266	9.1	7.1				9725	11620	9439.6	11700
X1	9.266	93	9725.9	11607.3	355	340	359			
GR	1024.3	7822.4	1024.5	8138.1	1024.7	8447.1	1024.9	8756.0	1024.2	9091.8

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GR	1023.4	9402.0	1023.3	9418.1	1024.2	9423.6	1021.6	9432.7	1024.2	9439.6
GR	1022.9	9444.9	1022.4	9529.5	1020.2	9575.9	1022.3	9661.6	1022.1	9725.9
GR	1013.9	9852.8	1017.2	10006.0	1013.9	10058.2	1013.7	10086.7	1017.3	10103.7
GR	1016.8	10209.4	1015.7	10230.4	1016.6	10257.2	1014.7	10308.2	1014.3	10344.1
GR	1018.0	10369.8	1017.8	10486.5	1019.5	10508.4	1021.4	10604.4	1021.3	10654.4
GR	1019.6	10685.0	1019.7	10704.5	1016.3	10751.4	1017.9	10770.7	1021.4	10905.8
GR	1020.8	11021.8	1021.6	11204.6	1020.8	11252.1	1017.1	11283.4	1018.2	11404.6
GR	1017.7	11468.4	1021.5	11607.3	1018.7	11635.1	1017.1	11660.6	1023.1	11704.5
GR	1022.8	11728.9	1017.3	11752.5	1017.5	11789.2	1023.8	11815.8	1024.4	11854.6
GR	1022.1	11954.6	1023.1	12278.8	1021.6	12459.7	1020.1	12472.3	1021.7	12489.4
GR	1020.8	12507.6	1022.4	12660.6	1019.8	12672.3	1019.0	12686.2	1021.1	12714.1
GR	1020.8	12727.1	1022.4	12754.6	1021.7	13004.7	1020.1	13039.2	1022.2	13104.7
GR	1021.4	13173.2	1018.6	13185.1	1018.2	13192.5	1022.7	13202.6	1018.5	13212.1
GR	1019.0	13244.7	1023.0	13254.3	1018.1	13265.2	1019.3	13347.4	1020.2	13359.6
GR	1020.5	13394.8	1018.9	13405.5	1020.6	13454.7	1020.8	13490.7	1022.7	13501.3
GR	1023.2	13532.9	1022.0	13542.7	1022.7	13554.9	1023.2	13887.5	1023.1	14188.9
GR	1023.3	14504.7	1023.0	14515.6	1024.2	14522.5	1023.3	14526.3	1023.2	14854.7
GR	1023.8	15204.7	1024.1	15254.7	1024.1	15454.2				

NC				0.1		0.3				
ET	9.343	9.1	7.1				9618	11470	9408.8	12100
X1	9.343	95	9618.7	11377.4	400	420	407.20			
GR	1024.9	7587.8	1024.9	7926.9	1025.2	8234.9	1024.9	8577.0	1025.0	8877.0
GR	1025.1	9206.1	1024.5	9368.1	1025.6	9377.1	1024.8	9387.6	1025.6	9394.5
GR	1023.2	9401.8	1026.1	9408.8	1025.1	9413.1	1025.4	9477.1	1024.3	9498.4
GR	1025.4	9523.7	1024.0	9615.6	1022.6	9618.7	1018.1	9653.8	1018.9	9877.1
GR	1017.8	9902.5	1015.5	9910.9	1014.4	9944.6	1015.3	10010.6	1014.7	10059.6
GR	1017.2	10073.7	1016.7	10177.2	1015.4	10217.0	1018.8	10234.4	1019.8	10363.0
GR	1018.7	10378.3	1018.8	10424.4	1019.9	10440.5	1021.2	10627.2	1020.9	10650.2
GR	1021.9	10696.3	1018.5	10731.0	1020.0	10782.7	1019.5	10844.3	1021.8	10927.2
GR	1022.9	11083.8	1022.0	11126.4	1021.2	11128.4	1019.5	11173.0	1020.3	11179.4
GR	1018.2	11194.8	1017.9	11304.7	1020.3	11326.9	1020.1	11354.6	1023.7	11377.4
GR	1024.1	11427.7	1022.8	11453.9	1024.7	11477.3	1022.8	11516.1	1024.4	11527.3
GR	1023.1	11577.3	1022.4	11728.2	1021.6	11734.2	1024.2	11777.2	1023.7	12081.9
GR	1024.4	12170.3	1021.8	12239.3	1021.5	12285.2	1017.9	12350.6	1018.3	12655.5
GR	1019.0	12919.1	1022.5	13026.2	1019.4	13073.5	1019.5	13113.7	1022.8	13131.2
GR	1024.2	13161.2	1021.4	13172.5	1021.5	13210.4	1024.9	13220.0	1019.4	13231.2
GR	1020.6	13297.8	1019.8	13316.4	1019.8	13337.3	1021.0	13348.0	1021.0	13441.1
GR	1023.7	13473.5	1021.3	13588.7	1023.6	13727.5	1023.7	14041.5	1023.5	14377.5
GR	1023.6	14491.9	1025.1	14496.9	1023.2	14502.0	1023.9	14827.6	1024.3	15128.2
GR	1024.6	15432.3	1024.8	15759.3	1027.2	15809.2	1026.1	15839.4	1026.7	15864.0

ET	9.435	9.1	7.1				9548	11200	8158.2	11839.2
X1	9.435	83	9548.8	11146.3	475	495	482.24			
GR	1026.4	8158.2	1026.9	8488.2	1026.6	8820.8	1026.6	9153.1	1027.0	9359.2
GR	1024.3	9366.6	1026.9	9375.9	1025.8	9380.2	1024.1	9489.5	1025.0	9548.8
GR	1019.4	9576.8	1019.2	9849.0	1018.4	9908.7	1019.6	9922.6	1015.2	9933.9
GR	1015.4	9996.3	1018.3	10046.3	1018.6	10097.9	1017.2	10118.4	1017.3	10146.3
GR	1016.2	10155.8	1016.5	10181.7	1020.3	10199.6	1021.2	10546.3	1020.0	10889.1
GR	1020.7	11048.3	1019.4	11060.7	1023.5	11095.3	1023.2	11111.6	1025.8	11146.3

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GR	1025.1	11318.4	1022.3	11346.7	1023.9	11346.8	1025.4	11396.3	1023.4	11715.2
GR	1024.4	11799.5	1023.5	11816.9	1031.5	11839.2	1024.4	11854.6	1023.6	12095.2
GR	1026.5	12103.4	1023.3	12111.2	1023.4	12173.1	1021.8	12180.1	1025.3	12196.4
GR	1026.7	12210.6	1024.4	12279.4	1024.9	12296.3	1023.9	12317.6	1024.1	12372.9
GR	1025.8	12381.3	1024.7	12389.2	1026.0	12412.9	1025.1	12426.1	1022.6	12436.7
GR	1024.1	12462.4	1023.1	12467.5	1023.5	12488.3	1027.8	12501.1	1023.6	12514.8
GR	1024.8	12652.4	1024.8	12948.7	1025.7	13145.7	1023.8	13152.6	1024.7	13198.4
GR	1028.4	13207.9	1028.1	13222.0	1024.3	13232.5	1023.0	13249.0	1023.7	13452.5
GR	1028.8	13477.7	1028.7	13513.8	1024.3	13534.0	1023.4	13714.2	1020.2	13778.8
GR	1020.1	14098.7	1020.7	14275.7	1025.3	14461.9	1025.7	14778.3	1024.9	15117.5
GR	1025.7	15440.3	1028.8	15731.5	1030.3	15743.1				

ET	9.519	9.1	7.1				9500	11160	9353.8	11803.0
X1	9.519	74	9530.0	11038.2	450	445	445.93			
GR	1028.1	8418.7	1026.8	8455.6	1028.1	8480.0	1027.4	8880.0	1026.4	9183.8
GR	1026.6	9339.0	1024.6	9346.8	1027.1	9353.8	1026.0	9360.1	1024.3	9467.6
GR	1026.2	9481.6	1024.8	9499.6	1025.3	9530.0	1020.4	9568.8	1021.3	9580.0
GR	1019.8	9671.8	1021.8	9680.4	1020.4	9936.5	1017.4	9979.7	1019.0	9997.1
GR	1016.3	10080.9	1018.3	10100.5	1017.0	10182.7	1021.0	10206.2	1022.5	10535.4
GR	1022.7	10730.0	1020.9	10786.3	1022.2	10830.0	1020.0	10940.9	1020.5	10995.1
GR	1024.8	11038.2	1023.8	11093.5	1026.2	11173.8	1025.2	11479.7	1023.5	11509.9
GR	1025.0	11530.0	1025.3	11792.0	1030.1	11803.0	1026.0	11807.1	1026.0	12588.1
GR	1026.9	12590.0	1024.3	12605.5	1027.6	12686.2	1025.5	12692.0	1025.5	12804.6
GR	1029.5	12813.4	1029.4	12829.0	1030.1	12840.4	1025.4	12852.4	1027.0	12976.6
GR	1023.0	13084.8	1023.6	13128.6	1025.7	13157.2	1030.6	13170.4	1025.6	13186.4
GR	1026.3	13207.1	1035.7	13281.9	1037.3	13313.1	1033.3	13560.9	1028.0	13585.0
GR	1027.9	13597.0	1027.0	13597.8	1026.0	13930.0	1025.0	14270.0	1025.0	14580.0
GR	1025.4	14890.8	1026.5	15191.1	1027.2	15401.2	1028.4	15667.7	1032.4	15680.4
GR	1032.4	15692.0	1028.8	15700.0	1028.5	15707.9	1030.7	15740.9		

ET	9.605	9.1	7.1				9510	11140	9333	11778.8
X1	9.605	65	9528.1	11013.4	450	455	453.02			
GR	1026.9	8906.2	1026.7	9213.4	1027.2	9312.6	1028.5	9317.9	1026.2	9325.5
GR	1028.3	9333.1	1026.8	9341.6	1026.9	9449.8	1029.5	9466.0	1025.9	9513.6
GR	1026.2	9528.1	1021.3	9552.7	1021.7	9613.6	1020.3	9626.6	1021.4	9691.9
GR	1019.1	9885.5	1021.7	9899.7	1019.8	9963.2	1023.8	10013.4	1023.7	10113.7
GR	1025.2	10165.4	1018.7	10197.8	1019.1	10296.8	1022.1	10305.6	1023.9	10514.0
GR	1022.5	10541.1	1023.4	10563.4	1022.3	10601.0	1021.6	10869.6	1022.5	10977.3
GR	1026.7	11013.4	1025.6	11082.0	1027.9	11163.4	1027.7	11233.8	1026.7	11244.8
GR	1028.1	11365.2	1026.5	11508.4	1027.7	11513.7	1026.1	11663.4	1027.1	11769.3
GR	1030.1	11778.8	1027.1	11785.4	1027.1	12761.9	1027.7	12776.9	1026.2	13095.4

Effective Model Output  
AGUAFRIA.OUT

GR	1027.1	13134.9	1032.3	13148.8	1026.6	13163.1	1026.8	13386.9	1025.2	13413.4
GR	1027.7	13464.6	1026.9	13813.4	1026.9	14115.7	1027.0	14408.4	1028.1	14425.0
GR	1026.7	14608.7	1027.7	14613.4	1026.1	14618.2	1027.8	14625.6	1026.4	14628.3
GR	1027.6	14632.2	1026.7	14964.5	1027.3	15314.4	1028.3	15663.4	1029.0	15673.3

CONFLUENCE WITH NEW RIVER

ET	9.696	9.1	7.1				9570	11080	9015	11702.1
X1	9.696	91	9602.6	10996.2	530	430	484.29			
GR	1029.9	7599.1	1029.2	7912.4	1029.7	8257.2	1030.5	8619.8	1029.9	8831.5
GR	1028.9	8845.5	1028.1	8992.0	1029.5	9015.3	1026.3	9041.5	1020.9	9075.8
GR	1019.3	9100.8	1019.0	9317.2	1023.7	9420.4	1023.3	9442.7	1024.3	9588.4
GR	1026.2	9602.6	1026.1	9618.1	1027.9	9632.9	1026.0	9655.6	1027.2	9668.0
GR	1027.6	9692.2	1028.3	9696.5	1026.7	9753.2	1027.0	9818.1	1022.2	9845.3

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GR	1020.6	9885.0	1022.9	9958.5	1022.2	9970.0	1022.9	9987.3	1022.2	10010.3
GR	1024.7	10030.2	1025.6	10107.8	1025.2	10146.5	1024.5	10147.3	1024.7	10232.4
GR	1018.7	10247.8	1018.7	10339.8	1020.3	10349.2	1022.2	10433.3	1021.8	10446.8
GR	1023.6	10545.7	1023.9	10724.6	1024.9	10739.3	1024.4	10971.5	1026.9	10996.2
GR	1028.4	11103.5	1026.2	11181.0	1027.7	11201.0	1027.4	11533.9	1028.1	11659.0
GR	1027.1	11690.8	1029.1	11702.1	1024.2	11713.9	1023.4	11748.9	1024.0	11775.8
GR	1023.2	12099.7	1024.0	12265.9	1024.8	12280.0	1025.1	12425.6	1022.1	12449.5
GR	1021.3	12467.7	1022.9	12487.3	1025.4	12493.6	1025.4	12539.0	1023.3	12552.1
GR	1025.5	12557.5	1024.9	12601.6	1025.9	12902.3	1027.4	13067.7	1030.4	13077.2
GR	1027.9	13089.0	1026.4	13183.5	1025.5	13215.4	1027.3	13280.3	1028.4	13555.0
GR	1027.3	13906.4	1027.2	14209.6	1027.1	14347.5	1028.2	14354.0	1028.0	14669.0
GR	1027.3	14730.2	1027.7	15048.9	1028.6	15362.0	1028.8	15462.4	1028.7	15548.9
GR	1030.4	15610.3	1034.4	15621.3	1034.8	15633.1	1030.2	15641.5	1029.5	15651.1
GR	1030.2	15663.0								

QT	2	30000	30000				9525	10924	9136.2	11950
ET	9.790	9.1	7.1				492.77			
X1	9.790	90	9555.3	10923.6	570	365	492.77			
GR	1033.4	7051.4	1033.3	7056.7	1035.0	7064.0	1034.8	7075.2	1034.0	7078.0
GR	1032.1	7149.3	1031.7	7458.3	1030.8	7493.6	1031.4	7524.7	1028.3	7657.8
GR	1025.9	7681.4	1026.6	7705.8	1022.0	7986.7	1023.2	8099.4	1024.3	8119.6
GR	1023.5	8159.1	1024.2	8159.2	1024.8	8466.1	1023.4	8634.1	1024.7	8670.4
GR	1024.8	8724.6	1027.5	8780.5	1027.7	9035.8	1027.0	9088.0	1030.0	9113.4
GR	1029.8	9131.3	1030.6	9136.2	1028.0	9147.7	1029.0	9301.9	1028.1	9331.0
GR	1028.6	9383.7	1027.9	9385.7	1027.5	9514.1	1029.1	9555.3	1026.1	9588.2
GR	1028.0	9790.4	1026.5	9806.2	1028.5	9821.7	1029.1	9892.3	1023.9	9916.5
GR	1021.9	10053.9	1023.8	10065.9	1023.4	10107.6	1020.8	10160.4	1019.6	10166.7
GR	1019.5	10222.2	1023.6	10235.1	1023.1	10261.5	1024.5	10277.4	1024.1	10299.7
GR	1022.8	10309.0	1022.5	10353.4	1023.6	10369.6	1022.8	10396.5	1025.0	10526.2
GR	1025.5	10666.4	1024.6	10799.2	1029.4	10923.6	1029.3	11267.1	1026.9	11558.6
GR	1025.9	11569.6	1027.7	11617.1	1027.3	11796.4	1024.9	11817.8	1027.7	11841.5
GR	1027.3	11873.4	1025.9	11886.9	1027.0	11916.7	1027.2	12071.6	1029.3	12091.5
GR	1030.6	12410.5	1030.2	12717.1	1030.4	12823.6	1028.3	12889.8	1029.1	12917.1
GR	1028.0	13014.7	1026.5	13027.1	1028.8	13042.6	1029.8	13067.3	1029.4	13317.1
GR	1028.6	13328.2	1029.6	13398.4	1028.5	13404.5	1028.8	13723.6	1029.1	14060.6
GR	1028.1	14367.1	1028.2	14717.1	1029.2	15019.0	1030.2	15331.2	1030.5	15407.2

ET	9.885	9.1	7.1				9325	10725	9327.8	12100
X1	9.885	91	9327.8	10706.6	520	460	503.63			
GR	1039.2	7565.7	1040.2	7662.3	1034.6	7685.9	1030.3	7700.2	1031.3	7867.8
GR	1029.7	7916.4	1027.5	7931.4	1026.9	7950.4	1030.6	7976.2	1031.5	7997.4
GR	1036.9	8022.8	1038.7	8074.4	1037.7	8126.1	1038.6	8229.3	1030.0	8275.0
GR	1029.1	8298.7	1024.4	8321.0	1023.7	8351.4	1031.1	8385.8	1031.2	8512.7
GR	1033.1	8528.7	1031.2	8560.8	1030.8	8895.1	1030.9	8906.2	1029.6	8919.4
GR	1029.8	9072.1	1029.1	9082.1	1030.3	9093.1	1029.6	9210.6	1032.3	9290.7
GR	1030.8	9299.0	1031.3	9327.8	1026.1	9346.9	1027.3	9423.2	1028.4	9430.8
GR	1029.2	9506.5	1028.0	9575.4	1029.3	9589.9	1028.9	9891.7	1028.8	9906.9
GR	1023.8	9943.1	1021.1	10038.7	1023.4	10078.6	1026.8	10380.8	1027.1	10669.0
GR	1029.9	10706.6	1028.7	11026.7	1028.5	11086.3	1027.3	11098.7	1028.9	11111.9
GR	1028.5	11220.7	1028.4	11325.3	1027.6	11358.6	1028.7	11372.0	1025.8	11398.6
GR	1029.1	11415.3	1028.9	11748.4	1028.5	11808.8	1030.7	11828.7	1031.0	12156.6
GR	1030.4	12166.2	1030.1	12236.2	1031.4	12257.8	1031.2	12452.6	1028.4	12472.0
GR	1031.1	12656.6	1030.8	12906.6	1029.6	12946.3	1031.2	13006.6	1030.2	13048.4
GR	1031.1	13078.7	1029.6	13093.9	1029.3	13107.9	1031.3	13116.8	1030.8	13158.5

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GR	1028.0	13195.5	1028.6	13366.4	1029.6	13556.6	1029.4	13659.0	1030.3	13959.7
GR	1030.6	14219.8	1031.3	14232.5	1030.5	14237.0	1030.7	14250.8	1029.1	14263.3
GR	1030.4	14606.6	1030.6	14909.8	1032.2	15157.1	1031.1	15164.5	1035.3	15172.3
GR	1035.2	15177.3								
ET	9.981	9.1	7.1				9288	10610	9288	12300
X1	9.981	94	9288.6	10529.4	620	380	504.23			
GR	1028.8	7985.5	1027.3	7992.5	1027.4	7998.6	1032.5	8033.4	1033.1	8101.7
GR	1031.9	8112.7	1032.2	8131.4	1037.6	8178.1	1038.2	8213.2	1037.3	8220.9
GR	1032.6	8240.3	1032.0	8257.9	1033.4	8264.7	1033.1	8586.5	1033.0	8909.7
GR	1032.0	8984.7	1030.9	8994.9	1032.0	9003.4	1031.0	9027.0	1032.1	9096.5
GR	1031.1	9106.3	1032.8	9124.2	1032.4	9150.5	1030.9	9161.7	1033.5	9288.6
GR	1030.9	9317.4	1029.0	9365.9	1029.5	9435.9	1031.0	9448.2	1029.2	9520.4
GR	1030.5	9652.6	1031.6	9714.0	1030.4	9816.3	1022.8	9874.0	1025.6	10071.1
GR	1023.9	10094.9	1026.5	10310.3	1028.2	10343.2	1027.6	10373.8	1029.0	10418.0
GR	1028.2	10494.2	1029.7	10529.4	1030.2	10678.9	1029.0	10690.6	1030.0	10718.8
GR	1030.3	10834.8	1029.3	10845.2	1030.2	10856.8	1030.0	11179.6	1029.2	11244.4
GR	1026.3	11262.4	1029.2	11279.5	1030.4	11499.2	1030.0	11717.1	1031.2	11733.8
GR	1030.9	11764.4	1032.4	11794.0	1033.1	12111.9	1032.8	12234.1	1030.9	12254.0
GR	1031.1	12375.2	1030.1	12403.4	1032.2	12472.1	1030.9	12495.7	1031.6	12528.2

Effective Model Output  
AGUAFRIA.OUT

GR	1030.6	12574.3	1033.0	12629.6	1032.0	12670.6	1032.4	12845.3	1029.6	13000.6
GR	1029.2	13074.2	1029.2	13136.4	1028.2	13148.1	1031.5	13279.6	1030.8	13579.6
GR	1030.1	13583.7	1032.3	13643.0	1032.7	13879.6	1031.9	13915.8	1032.9	13931.6
GR	1031.8	13936.5	1031.0	13959.3	1029.2	13980.9	1030.9	14079.6	1029.6	14113.5
GR	1031.1	14118.8	1031.7	14429.6	1032.0	14779.6	1031.3	14933.3	1035.8	14941.6
GR	1036.2	14956.7	1031.7	14964.7	1031.0	14972.7	1032.0	14986.6		
ET	10.071	9.1	7.1				9289	10520	9170	12311.1
X1	10.071	91	9289.6	10511.4	625	355	474.54			
GR	1042.8	7501.6	1042.9	7530.3	1038.5	7548.7	1037.8	7578.6	1030.4	7612.9
GR	1035.3	7648.5	1037.9	7660.3	1035.4	7749.7	1036.1	7818.4	1035.0	7866.0
GR	1035.0	8082.1	1033.5	8219.9	1035.0	8254.6	1034.6	8292.0	1032.2	8311.0
GR	1032.4	8347.0	1034.5	8360.9	1032.7	8394.8	1033.9	8418.4	1035.3	8718.9
GR	1033.9	8784.2	1034.9	8790.9	1032.9	8964.3	1035.7	8986.2	1033.7	9067.0
GR	1033.9	9112.6	1033.0	9139.5	1034.1	9213.8	1031.4	9251.6	1031.4	9273.1
GR	1032.6	9289.6	1029.7	9332.3	1032.8	9450.2	1029.6	9714.0	1027.9	9724.5
GR	1028.8	9745.6	1028.4	9820.1	1026.3	9829.3	1025.1	10105.6	1025.7	10120.0
GR	1024.9	10190.0	1028.8	10242.7	1031.5	10511.4	1030.8	10529.2	1031.8	10852.8
GR	1031.5	11186.9	1031.2	11469.9	1029.9	11502.5	1033.6	11529.2	1030.8	11574.1
GR	1032.6	11593.6	1032.8	11633.6	1031.8	11741.6	1032.1	12052.9	1031.9	12143.8
GR	1033.1	12189.0	1032.2	12270.0	1034.0	12294.4	1033.7	12302.4	1035.9	12311.1
GR	1032.7	12324.8	1033.0	12336.2	1032.1	12339.7	1033.2	12358.8	1032.5	12368.3
GR	1033.5	12459.6	1032.7	12786.8	1033.0	12816.1	1031.0	12838.0	1029.8	12886.4
GR	1029.1	13009.0	1030.5	13032.1	1029.1	13093.4	1031.5	13117.5	1030.8	13156.5
GR	1031.7	13394.1	1030.1	13454.5	1033.3	13505.0	1032.6	13607.0	1031.6	13617.1
GR	1033.4	13747.1	1035.1	13760.6	1033.1	13767.5	1030.0	13826.1	1031.5	13872.6
GR	1032.1	14246.5	1031.4	14550.6	1032.1	14701.1	1037.2	14713.9	1037.3	14726.4
GR	1032.2	14735.7								

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ET	10.167	9.1	7.1				9390	10380	9380	11989.1
X1	10.167	96	9412.5	10272.2	575	400	512.35			
GR	1042.3	6815.8	1043.6	6874.3	1036.4	6906.1	1037.1	6911.8	1036.0	6917.8
GR	1036.2	7129.0	1037.7	7194.5	1035.7	7205.8	1037.3	7277.2	1037.1	7420.3
GR	1039.4	7453.6	1037.1	7485.2	1038.7	7507.3	1037.7	7579.8	1038.3	7590.5
GR	1037.3	7594.2	1037.3	7713.7	1036.2	7723.0	1036.4	7888.6	1038.2	7925.2
GR	1037.1	7939.2	1035.1	8120.7	1036.1	8128.4	1036.5	8429.0	1035.2	8480.7
GR	1037.0	8786.9	1035.9	8921.4	1037.0	8943.4	1036.8	8974.4	1031.8	9018.5
GR	1039.2	9040.9	1034.5	9055.3	1033.7	9126.3	1036.7	9148.2	1033.3	9165.5
GR	1033.8	9220.1	1033.4	9233.3	1034.7	9240.3	1038.4	9252.7	1035.6	9256.7
GR	1033.3	9272.8	1033.5	9412.5	1030.1	9441.5	1028.9	9508.9	1029.9	9773.1
GR	1023.3	10025.7	1023.7	10040.0	1025.8	10051.5	1026.7	10190.6	1028.9	10206.1
GR	1028.6	10254.0	1031.0	10272.2	1033.1	10498.3	1032.9	10848.3	1033.0	11148.3
GR	1032.2	11453.2	1030.3	11467.7	1032.9	11483.3	1032.3	11523.7	1030.0	11546.4
GR	1034.0	11563.1	1032.4	11603.2	1032.6	11807.8	1033.8	11846.8	1032.4	11877.0
GR	1034.1	11898.4	1033.1	11953.6	1033.7	11977.0	1036.3	11989.1	1031.3	12008.1
GR	1033.4	12031.2	1033.2	12088.4	1031.7	12103.8	1033.5	12114.2	1032.3	12117.7
GR	1034.5	12198.3	1033.1	12499.2	1032.6	12530.4	1034.2	12592.6	1032.8	12620.5
GR	1032.5	12695.9	1030.5	12748.7	1033.1	12905.5	1030.4	13006.4	1032.1	13048.1
GR	1033.2	13355.8	1033.5	13581.8	1034.8	13585.3	1031.2	13629.7	1033.4	13936.1
GR	1032.9	14248.3	1033.1	14395.7	1037.8	14406.5	1038.1	14419.7	1033.2	14430.0
GR	1033.1	14443.1								

ET	10.265	9.1	7.1				9620	10360	9550	11664.3
X1	10.265	93	9737.0	10270.5	515	400	512.41			
GR	1042.7	6182.3	1039.6	6281.8	1038.1	6306.3	1036.8	6556.4	1037.5	6667.8
GR	1036.8	6706.5	1037.1	6812.6	1037.6	7060.0	1038.5	7106.8	1036.6	7215.8
GR	1038.3	7522.5	1038.4	7845.2	1038.6	8157.4	1038.7	8464.0	1038.9	8563.9
GR	1035.3	8585.1	1045.6	8610.3	1037.7	8630.1	1036.2	8844.9	1041.2	8863.0
GR	1036.6	8886.5	1034.8	8960.3	1036.3	9020.4	1035.0	9102.0	1040.8	9117.3
GR	1031.5	9140.9	1030.2	9155.5	1031.9	9162.8	1031.6	9222.5	1040.3	9238.9
GR	1029.8	9260.4	1031.5	9281.8	1033.6	9629.0	1032.9	9737.0	1029.3	9753.5
GR	1028.8	9974.1	1027.3	10026.3	1028.3	10034.3	1026.4	10062.5	1026.4	10099.9
GR	1027.7	10113.4	1028.4	10244.9	1033.7	10270.5	1034.4	10599.6	1034.5	10932.3
GR	1034.3	11132.3	1032.5	11177.2	1034.1	11188.2	1033.8	11204.8	1032.2	11212.9
GR	1033.8	11262.6	1032.0	11271.1	1031.4	11288.2	1033.8	11302.6	1034.3	11332.3
GR	1032.2	11360.1	1036.5	11412.3	1032.8	11426.5	1035.5	11438.9	1033.7	11626.1
GR	1032.6	11636.2	1033.5	11649.8	1037.9	11664.3	1034.0	11682.2	1033.1	11715.4
GR	1034.7	11734.5	1034.9	11782.3	1033.9	11820.3	1032.9	11824.8	1034.2	11844.0
GR	1033.6	12033.4	1035.5	12132.3	1035.3	12421.8	1032.0	12538.6	1034.3	12632.3
GR	1032.8	12671.6	1034.3	12782.3	1033.7	12800.6	1034.4	12842.0	1034.1	13173.7
GR	1034.0	13330.9	1035.1	13335.7	1032.6	13351.9	1033.2	13370.0	1031.9	13443.8
GR	1033.8	13482.3	1033.9	13832.3	1034.2	14077.4	1039.0	14088.5	1039.1	14101.2
GR	1034.5	14111.5	1033.9	14119.2	1034.4	14126.8				

GR POINTS MODIFIED - BOTTOM OF GRAVEL MINE RAISED TO ELIMINATE NON-EFFECTIVE FLOW AREA BETWEEN SECTIONS 10.343 TO 10.538.

NC	.050	.050	.045							
ET	10.343	9.1	7.1				9750	10340	9750	11416
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X1	10.343	78	9782.1	10288.8	395	295	411.16			
GR	1043.6	5749.1	1044.2	5780.6	1038.7	5851.9	1039.0	6019.2	1039.2	6332.0
GR	1039.2	6402.4	1036.8	6515.4	1039.7	6852.7	1039.1	7156.0	1038.6	7398.1
GR	1040.0	7472.0	1039.8	7821.6	1039.2	8124.2	1040.1	8426.7	1038.4	8626.1
GR	1035.8	8870.7	1039.2	8882.3	1030.0	8906.1	1030.0	9429.5	1031.6	9432.5
GR	1033.6	9465.9	1034.3	9531.5	1031.4	9573.0	1031.9	9592.8	1036.7	9615.6
GR	1031.8	9659.5	1031.4	9770.7	1032.9	9782.1	1029.4	9854.5	1031.9	9869.3
GR	1029.4	9924.3	1030.7	10065.3	1026.7	10247.0	1035.2	10288.8	1036.1	10312.9
GR	1035.6	10620.5	1034.8	10841.9	1034.0	10847.5	1034.8	10947.5	1033.8	10988.6

Effective Model Output  
AGUAFRIA.OUT

GR	1034.1	11072.8	1033.2	11092.4	1035.7	11109.8	1035.9	11151.3	1037.1	11164.0
GR	1035.8	11184.6	1036.7	11198.0	1035.1	11214.8	1036.3	11231.4	1034.8	11244.9
GR	1035.6	11279.1	1034.4	11296.8	1035.7	11345.3	1033.4	11353.5	1033.1	11388.4
GR	1035.0	11390.4	1037.4	11416.6	1035.1	11427.0	1033.9	11612.9	1035.2	11918.3
GR	1033.7	12029.0	1035.4	12049.5	1035.0	12282.6	1033.3	12306.7	1034.1	12609.1
GR	1035.1	12942.0	1034.8	13067.5	1036.1	13073.7	1034.5	13086.5	1035.2	13108.0
GR	1033.0	13133.3	1032.5	13203.6	1034.5	13221.6	1035.3	13542.0	1036.5	13836.8
GR	1039.9	13845.1	1040.0	13859.8	1035.3	13871.1				

ET	10.442	9.1	7.1				9625	10380	9625.7	11448
X1	10.442	88	9625.8	10334.1	465	455	528.25			
GR	1042.3	5468.7	1039.3	5491.4	1039.3	5808.0	1039.1	6138.5	1040.6	6438.9
GR	1038.1	6739.3	1040.2	7039.7	1039.0	7351.4	1039.2	7534.1	1041.2	7607.2
GR	1040.7	7936.2	1039.3	8251.6	1037.5	8557.5	1036.0	8599.2	1031.3	8658.3
GR	1031.3	9546.2	1033.4	9549.4	1030.1	9585.6	1031.4	9602.2	1041.9	9625.8
GR	1030.1	9648.9	1030.9	9659.7	1033.8	9672.3	1032.7	9989.3	1029.4	10112.8
GR	1031.4	10126.5	1030.5	10160.2	1032.4	10184.0	1030.1	10296.8	1037.3	10334.1
GR	1035.8	10505.2	1037.3	10535.6	1035.3	10581.7	1035.3	10633.6	1036.6	10645.8
GR	1036.3	10732.6	1035.1	10793.1	1037.3	10814.5	1035.0	10837.9	1037.6	10872.9
GR	1038.3	10917.6	1036.7	10936.9	1038.1	10972.9	1036.9	11019.0	1034.1	11034.0
GR	1036.8	11062.7	1035.3	11067.5	1036.6	11137.8	1035.5	11163.7	1037.1	11174.2
GR	1035.4	11339.0	1037.2	11371.8	1037.7	11436.7	1041.0	11448.8	1036.4	11467.4
GR	1035.3	11500.2	1037.0	11540.9	1037.1	11590.4	1035.8	11597.9	1036.1	11610.8
GR	1037.8	11618.4	1034.4	11726.1	1034.9	11793.6	1037.8	11821.3	1037.6	12122.9
GR	1035.2	12185.5	1036.9	12206.0	1036.5	12285.4	1035.6	12292.7	1036.9	12300.0
GR	1036.6	12622.9	1035.7	12762.1	1037.4	12768.1	1035.7	12779.8	1033.0	12856.5
GR	1036.3	12972.9	1035.8	13036.9	1037.5	13058.2	1036.5	13073.0	1035.5	13073.1
GR	1037.0	13122.9	1036.5	13469.3	1037.5	13564.5	1041.7	13576.0	1042.0	13590.2
GR	1036.5	13599.8	1035.8	13604.8	1036.9	13629.1				

ET	10.538	9.1	7.1				9540	10480	9514.9	11058
X1	10.538	87	9573.5	10478.1	460	530	504.98			
GR	1044.3	5184.9	1041.9	5231.3	1040.7	5346.6	1042.0	5381.6	1039.6	5682.2
GR	1040.9	5982.8	1040.5	6283.3	1041.2	6595.7	1041.2	6884.5	1041.0	7201.5
GR	1041.2	7536.3	1043.3	7856.8	1042.5	7996.9	1043.8	7979.7	1040.8	8090.9
GR	1038.3	8289.3	1041.4	8383.5	1047.4	8433.6	1045.1	8442.7	1042.2	8474.3
GR	1036.6	8494.1	1039.0	8523.1	1039.3	8623.9	1039.5	8689.3	1037.5	8721.0
GR	1032.6	8730.1	1032.6	9358.6	1030.7	9369.0	1031.1	9393.1	1032.6	9397.3
GR	1034.7	9485.0	1044.0	9515.0	1032.4	9550.4	1035.0	9573.5	1032.3	9735.6
GR	1033.1	9803.1	1031.7	9852.9	1033.8	9961.2	1034.1	10074.0	1033.2	10146.3
GR	1034.8	10204.0	1032.3	10314.7	1031.2	10415.1	1033.6	10426.6	1035.0	10466.3
GR	1037.9	10478.1	1037.0	10517.7	1038.0	10546.0	1036.8	10585.9	1037.3	10707.3
GR	1038.3	10796.1	1039.2	10804.0	1036.6	10849.8	1038.0	10898.1	1036.0	10910.1
GR	1037.4	10922.0	1039.0	11058.2	1038.2	11357.2	1035.9	11378.0	1036.5	11469.0
GR	1035.7	11506.5	1038.3	11558.5	1039.7	11652.5	1041.5	11661.6	1037.8	11677.8

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GR	1039.3	11777.4	1037.9	11782.6	1039.3	11801.3	1038.9	11978.3	1036.8	12039.8
GR	1038.1	12076.2	1037.0	12092.7	1038.3	12115.4	1037.3	12121.4	1037.7	12452.6
GR	1037.2	12566.3	1038.0	12577.1	1035.0	12729.0	1036.0	12746.9	1034.0	12773.6
GR	1038.3	12884.7	1038.0	13202.7	1037.9	13388.3	1042.7	13400.0	1042.9	13414.2
GR	1037.2	13424.5	1036.8	13435.8						

ET	10.632	9.1	7.1				9445	10430	9414.6	10612
X1	10.632	93	9514.2	10402.3	465	510	496.32			
GR	1046.8	5031.2	1045.8	5041.9	1042.1	5047.3	1042.5	5093.6	1040.7	5097.4
GR	1042.5	5105.0	1040.6	5110.0	1042.7	5115.6	1041.7	5120.1	1041.7	5209.0
GR	1042.3	5457.6	1043.4	5501.6	1042.3	5511.0	1043.6	5531.9	1040.3	5657.9
GR	1040.5	5944.9	1042.7	5990.0	1041.4	6002.2	1041.9	6105.6	1042.7	6429.0
GR	1042.2	6737.6	1042.6	7050.6	1041.3	7216.0	1042.6	7264.7	1042.7	7569.7
GR	1043.8	7806.3	1045.2	7817.4	1043.9	7823.8	1044.8	7832.2	1048.8	7843.2
GR	1043.5	7855.8	1043.5	7939.2	1048.8	7950.5	1042.5	7969.8	1041.2	8065.8
GR	1039.1	8072.3	1039.6	8095.7	1041.0	8104.0	1039.8	8110.2	1041.5	8125.3
GR	1046.3	8144.4	1041.9	8162.5	1040.1	8176.7	1040.1	8542.6	1039.3	8861.3
GR	1039.3	9170.4	1037.8	9231.7	1037.9	9336.4	1039.2	9401.4	1043.6	9414.6
GR	1035.7	9434.4	1038.8	9458.6	1038.2	9514.2	1035.9	9556.1	1033.6	9757.4
GR	1031.7	9772.8	1034.0	9794.5	1032.7	9807.2	1032.7	9834.7	1035.3	9842.4
GR	1033.9	9851.1	1033.8	10153.8	1032.5	10365.3	1039.3	10402.3	1038.2	10435.4
GR	1040.4	10612.0	1038.4	10623.9	1039.7	10692.8	1038.7	10702.4	1037.7	11007.7
GR	1038.7	11174.1	1040.1	11393.3	1039.4	11407.7	1040.4	11432.1	1038.8	11710.8
GR	1040.3	11817.9	1038.8	11830.9	1040.0	11845.8	1038.7	11915.1	1039.5	11934.4
GR	1038.0	11937.1	1037.5	12006.1	1040.9	12036.8	1037.7	12074.0	1039.5	12082.6
GR	1037.7	12107.3	1037.5	12422.8	1036.6	12552.9	1038.5	12570.3	1036.4	12831.5
GR	1038.9	12957.9	1039.0	13257.9	1040.0	13273.6				

ET	10.752	9.1	7.1				9480	10329.9	9335	10329.9
X1	10.752	90	9651.8	10329.8	605	630	628.61			
GR	1048.3	4553.6	1042.4	4584.0	1043.1	4589.6	1041.1	4596.6	1043.2	4602.7
GR	1041.0	4611.6	1043.0	4932.6	1042.0	4953.3	1043.8	5038.2	1043.0	5364.3
GR	1043.0	5568.7	1040.6	5581.1	1040.8	5666.5	1043.3	5817.5	1042.3	6064.3
GR	1043.7	6114.4	1041.7	6202.8	1041.3	6326.6	1043.9	6339.8	1043.0	6471.4
GR	1044.3	6633.7	1043.6	6950.9	1044.4	7078.8	1042.6	7100.9	1044.6	7164.5
GR	1043.0	7246.6	1044.8	7272.1	1043.2	7333.1	1043.6	7635.3	1048.5	7656.2
GR	1044.1	7668.1	1044.0	7762.8	1047.4	7775.5	1044.2	7789.3	1041.2	8106.8
GR	1041.3	8424.9	1040.7	8502.3	1042.7	8522.6	1040.8	8716.0	1042.7	8801.5
GR	1040.7	8984.9	1041.3	9206.3	1038.2	9231.8	1038.2	9254.6	1042.6	9273.2
GR	1042.7	9292.9	1045.3	9295.8	1047.0	9301.0	1044.9	9309.8	1046.2	9321.9
GR	1038.5	9341.6	1038.6	9354.0	1040.3	9360.6	1041.0	9651.8	1038.4	9739.9
GR	1037.1	9743.8	1031.3	9930.8	1036.5	10237.9	1033.2	10271.5	1033.7	10296.1
GR	1042.8	10329.8	1040.5	10347.4	1042.1	10360.7	1041.9	10521.1	1041.1	10809.6
GR	1039.3	10813.4	1041.9	10829.9	1040.2	10882.0	1041.2	10904.0	1039.9	10912.1
GR	1040.7	11232.0	1041.0	11281.3	1039.6	11292.4	1041.3	11304.8	1041.8	11416.8
GR	1040.6	11424.2	1041.6	11431.8	1039.4	11582.0	1040.9	11706.0	1039.1	11724.7

Effective Model Output  
AGUAFRIA.OUT

GR	1041.6	11812.4	1038.4	11831.6	1041.1	11983.8	1038.8	12046.3	1040.4	12097.7
GR	1036.6	12134.1	1036.8	12148.4	1041.2	12171.6	1039.9	12482.5	1042.7	12661.3

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ET	10.846	9.1	7.1				9580	10310	8855	10402.4
X1	10.846	96	9756.4	10308.2	510	480	500.68			
GR	1050.7	4212.6	1049.2	4237.7	1047.3	4242.4	1049.3	4249.8	1047.8	4255.9
GR	1046.7	4455.3	1042.9	4484.7	1043.7	4812.2	1043.8	5129.0	1043.8	5433.6
GR	1044.1	5530.4	1046.4	5558.5	1041.5	5602.2	1045.1	5927.4	1044.9	6130.9
GR	1043.3	6192.7	1044.4	6233.7	1043.6	6291.3	1045.2	6592.3	1045.2	6865.7
GR	1043.5	6881.1	1046.0	6943.5	1044.7	7051.7	1046.2	7081.4	1044.9	7091.1
GR	1046.9	7101.3	1043.9	7119.5	1046.3	7147.0	1045.8	7462.6	1049.2	7474.5
GR	1044.0	7487.9	1046.2	7572.9	1048.6	7583.4	1046.3	7599.4	1045.6	7653.5
GR	1043.4	7674.3	1043.0	7985.4	1041.5	8301.1	1042.5	8319.7	1042.0	8459.6
GR	1043.9	8485.0	1042.8	8530.2	1044.1	8547.8	1044.3	8770.3	1042.4	8787.3
GR	1042.1	8963.4	1043.0	9125.3	1041.7	9155.7	1042.6	9496.4	1041.8	9621.3
GR	1040.7	9636.3	1039.3	9713.9	1039.0	9756.4	1034.8	9829.0	1033.3	9916.9
GR	1031.6	9937.5	1035.3	10030.4	1037.4	10223.5	1033.7	10237.0	1033.6	10267.9
GR	1038.8	10283.4	1042.9	10308.2	1040.5	10341.8	1042.0	10384.0	1041.2	10394.2
GR	1044.4	10402.4	1042.7	10409.7	1044.3	10419.7	1042.4	10496.4	1043.7	10522.5
GR	1042.7	10830.5	1043.1	10840.5	1040.9	10848.8	1040.5	10856.7	1043.7	10865.5
GR	1042.8	10994.0	1040.8	11003.6	1043.6	11155.2	1042.4	11164.5	1042.9	11173.3
GR	1041.7	11176.7	1043.5	11316.2	1042.3	11568.9	1041.2	11574.0	1044.0	11627.0
GR	1040.0	11674.8	1040.2	11730.9	1042.9	11769.5	1041.4	11804.3	1038.8	11820.9
GR	1038.2	11875.5	1043.1	11899.9	1042.7	11965.1	1043.9	11981.0	1041.9	12286.9
GR	1042.2	12373.3								

NC	.050	.095	.045				9570	10380	9130	10627.0
ET	10.942	9.1	7.1				503.71			
X1	10.942	91	9702.2	10379.3	550	450	3967.0	1050.2	3973.5	3980.7
GR	1052.3	3826.4	1050.3	3960.5	1048.7	3967.0	1044.1	4240.3	1043.2	4260.4
GR	1046.4	4046.8	1046.4	4151.1	1043.3	4229.4	1044.1	4671.0	1044.1	4684.2
GR	1045.0	4531.5	1044.1	4538.0	1045.0	4547.0	1044.9	5620.6	1046.3	5737.2
GR	1044.6	5010.4	1045.0	5327.2	1045.4	5610.0	1044.0	5912.2	1045.4	5960.4
GR	1045.4	5745.2	1046.2	5798.0	1046.3	5863.7	1043.5	6730.0	1047.0	7060.2
GR	1046.4	6260.4	1046.5	6571.7	1046.5	6689.7	1046.1	7188.8	1044.5	7204.9
GR	1045.8	7082.5	1047.8	7106.2	1048.1	7179.4	1051.0	7293.2	1045.8	7309.2
GR	1045.7	7254.5	1043.6	7268.0	1043.8	7279.1	1049.6	7918.3	1044.4	8229.5
GR	1046.6	7563.9	1045.2	7577.5	1043.6	7883.5	1044.7	9382.9	1043.9	9498.3
GR	1044.1	8575.6	1044.7	8890.0	1043.1	9209.9	1042.3	9844.3	1034.7	9923.2
GR	1042.4	9677.7	1041.0	9702.2	1035.9	9761.5	1034.7	10054.1	1036.4	10325.4
GR	1034.2	9954.0	1035.9	9976.0	1035.1	10025.1	1036.7	10420.7	1041.8	10428.8
GR	1037.7	10363.9	1042.1	10379.3	1043.7	10410.0	1043.3	10517.2	1043.7	10540.5
GR	1040.4	10467.9	1042.6	10485.6	1041.0	10497.1	1044.6	10682.4	1042.7	10704.1
GR	1045.4	10579.6	1050.9	10627.0	1048.5	10654.8	1043.9	10764.7	1045.2	11086.1
GR	1044.1	10733.7	1042.9	10750.3	1044.5	10762.4	1043.7	11587.1	1045.5	11610.8
GR	1044.4	11404.6	1042.9	11456.7	1040.2	11513.6	1042.3	12072.7	1045.0	12185.7
GR	1045.0	11943.7	1045.5	12062.2	1044.0	12068.7	1045.5			
GR	1045.7	12219.8								

ET	11.029	9.1	7.1				9480	10410	9240	10467.9
X1	11.029	95	9513.1	10404.2	485	415	459.59			
GR	1055.5	3356.7	1053.0	3607.3	1053.9	3617.6	1051.2	3623.8	1050.3	3635.8
GR	1051.3	3641.5	1049.4	3661.8	1047.1	3741.2	1046.4	3861.8	1044.0	3889.2
GR	1045.3	3899.9	1045.1	4187.0	1046.2	4194.5	1045.9	4514.8	1044.5	4858.6
GR	1044.0	4890.1	1046.3	5011.7	1046.5	5170.4	1047.9	5180.1	1045.6	5308.8
GR	1047.0	5332.6	1047.1	5634.9	1048.1	5911.6	1047.2	5921.0	1048.0	6085.4

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GR	1047.2	6101.4	1049.2	6153.3	1050.8	6165.5	1048.2	6173.3	1048.1	6334.7
GR	1049.8	6357.8	1048.8	6434.9	1048.0	6707.0	1046.9	6725.3	1048.8	6762.4
GR	1048.9	6825.3	1053.4	6836.7	1045.6	6854.7	1045.3	6863.6	1047.4	6874.8
GR	1047.9	6903.9	1046.3	6930.1	1053.0	6943.7	1046.6	6962.1	1047.4	7135.8
GR	1046.0	7161.8	1045.7	7357.5	1047.9	7387.4	1048.1	7711.8	1048.2	7900.9
GR	1046.2	7927.7	1046.5	8279.3	1045.2	8637.4	1043.4	8986.4	1044.2	9100.0
GR	1042.4	9115.1	1042.9	9152.3	1045.8	9188.3	1046.5	9353.7	1045.1	9513.1
GR	1041.5	9524.5	1042.0	9546.7	1040.2	9557.3	1039.7	9592.4	1035.5	9671.5
GR	1036.6	9715.5	1034.7	9802.0	1036.2	9811.0	1040.6	9884.3	1037.7	10099.7
GR	1039.2	10225.5	1036.1	10263.7	1036.1	10322.4	1037.2	10344.9	1036.4	10379.6
GR	1042.3	10404.2	1042.2	10423.3	1043.5	10450.3	1046.4	10467.9	1046.3	10864.9
GR	1044.9	10971.0	1042.5	11028.3	1043.2	11075.1	1041.2	11108.6	1042.3	11164.9
GR	1045.9	11215.0	1045.1	11460.7	1046.9	11477.3	1046.5	11492.9	1043.5	11499.2
GR	1045.7	11513.6	1047.7	11765.0	1046.2	11797.1	1047.8	11809.8	1048.6	11874.4

ET	11.128	9.1	7.1				9430	10325	9340	10398.5
X1	11.128	96	9514.9	10324.6	535	500	525.10			
GR	1058.1	2987.5	1053.9	3300.9	1054.1	3315.4	1051.7	3320.5	1053.8	3326.9
GR	1051.6	3333.3	1052.7	3340.5	1050.7	3413.9	1052.7	3511.0	1049.4	3544.7
GR	1046.5	3566.1	1045.6	3866.8	1045.1	3875.1	1046.0	3882.5	1046.6	4192.4
GR	1046.6	4238.5	1047.7	4249.7	1046.1	4556.7	1046.9	4864.0	1045.8	4911.8
GR	1047.6	4923.3	1048.6	5257.1	1048.8	5603.3	1049.5	5656.9	1047.3	5666.3
GR	1048.8	5702.3	1049.0	5873.8	1048.4	6192.8	1049.6	6282.8	1047.2	6410.0
GR	1049.3	6450.8	1049.0	6517.7	1052.6	6527.2	1047.1	6543.5	1047.2	6555.0
GR	1048.6	6562.5	1046.6	6630.6	1052.1	6643.0	1048.7	6653.1	1048.0	6773.5
GR	1046.3	6801.4	1046.1	6914.0	1048.1	6939.2	1049.3	7253.0	1047.5	7449.3
GR	1048.2	7551.5	1049.6	7583.8	1048.9	7627.3	1047.2	7650.6	1047.4	7816.2
GR	1045.9	7833.2	1047.9	7852.1	1047.7	7987.6	1046.6	8003.0	1046.6	8329.6
GR	1047.8	8488.2	1049.5	8543.1	1048.5	8605.4	1054.6	8639.5	1044.8	8781.1
GR	1045.9	8943.7	1036.7	9002.5	1035.4	9176.4	1037.5	9194.4	1039.0	9341.0
GR	1037.9	9366.1	1039.6	9388.2	1038.7	9514.9	1036.6	9640.2	1038.1	9648.6

Effective Model Output  
AGUAFRIA.OUT

GR	1041.4	9774.2	1040.3	9997.2	1039.1	10004.7	1040.2	10141.7	1036.1	10257.7
GR	1036.1	10288.2	1045.4	10324.6	1043.8	10366.9	1047.6	10398.5	1045.7	10485.5
GR	1047.0	10509.1	1045.9	10551.3	1046.9	10611.5	1045.3	10635.0	1046.9	10656.1
GR	1044.6	10691.5	1046.9	10751.8	1044.4	10803.0	1042.5	10816.1	1041.9	10838.3
GR	1045.8	10867.0	1048.0	10921.0	1044.7	10938.2	1047.5	10950.9	1047.8	11251.8
GR	1049.3	11369.3								
ET	11.224	9.1	7.1				9450	10262	9450	10350
X1	11.224	95	9640.3	10261.5	470	535	506.70			
GR	1060.8	2692.0	1056.0	3019.2	1055.4	3106.4	1053.7	3112.1	1055.3	3118.4
GR	1053.2	3124.8	1054.7	3130.6	1051.5	3165.1	1053.2	3174.1	1051.9	3215.8
GR	1049.9	3225.7	1052.4	3266.2	1050.3	3319.2	1046.8	3362.6	1046.4	3670.4
GR	1047.1	3997.9	1046.2	4305.0	1047.5	4606.3	1047.8	4919.2	1048.2	5184.4
GR	1049.3	5217.7	1049.3	5519.2	1049.8	5869.2	1049.8	5894.0	1048.7	5905.6
GR	1048.8	6214.8	1050.0	6285.3	1053.7	6297.6	1047.1	6309.6	1047.2	6318.9
GR	1049.1	6332.2	1047.3	6383.2	1053.6	6401.5	1048.6	6410.2	1048.7	6440.0
GR	1046.6	6470.6	1049.1	6786.0	1049.1	7119.2	1049.3	7341.5	1047.6	7419.2
GR	1047.4	7570.6	1046.4	7595.9	1048.0	7619.2	1047.8	7769.2	1047.3	8070.7
GR	1048.6	8259.3	1049.8	8274.5	1048.6	8323.4	1049.0	8418.7	1046.9	8528.8
GR	1052.9	8561.7	1051.9	8639.0	1054.1	8693.1	1050.7	8752.3	1050.6	8925.6
GR	1051.7	8942.0	1050.2	8948.9	1049.5	9025.4	1052.2	9042.1	1055.6	9080.7
GR	1048.0	9156.3	1047.4	9184.6	1042.4	9204.3	1041.6	9239.4	1039.4	9262.4
GR	1039.2	9336.2	1044.1	9369.2	1044.4	9399.3	1039.8	9448.0	1041.9	9640.3

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GR	1039.9	9647.7	1040.6	9914.7	1038.1	9995.2	1040.5	10023.3	1038.2	10193.6
GR	1043.7	10223.3	1046.5	10261.5	1046.1	10288.9	1043.4	10299.8	1047.1	10313.3
GR	1046.9	10321.7	1049.8	10363.4	1048.2	10384.7	1047.9	10504.3	1049.5	10519.6
GR	1046.1	10548.4	1048.0	10557.0	1046.7	10588.4	1049.3	10888.7	1050.3	10989.4
GR	1052.1	11009.1	1050.7	11019.7	1052.4	11029.1	1052.4	11049.8	1054.6	11070.1
ET	11.325	9.1	7.1				9570	10190	9570	10784.1
X1	11.325	91	9747.7	10184.4	480	575	531.86			
GR	1046.2	3382.4	1046.3	3427.5	1047.6	3443.2	1049.4	3580.9	1048.0	3686.9
GR	1049.8	3896.3	1048.7	3939.9	1047.6	4223.7	1048.9	4261.9	1048.7	4528.3
GR	1050.2	4565.0	1048.5	4580.7	1050.0	4592.5	1048.6	4635.5	1048.7	4735.7
GR	1049.4	4740.1	1048.8	4786.1	1049.4	4794.7	1048.5	4935.7	1051.1	4944.0
GR	1051.2	4966.3	1049.5	4985.7	1051.5	5003.3	1050.0	5035.8	1049.6	5180.5
GR	1052.1	5256.7	1050.0	5305.7	1051.1	5559.6	1051.7	5570.0	1051.0	5580.3
GR	1051.9	5597.8	1050.3	5859.9	1051.1	5939.1	1049.6	6109.4	1048.4	6153.2
GR	1051.2	6164.7	1051.8	6171.7	1050.0	6177.8	1050.7	6219.4	1048.4	6285.1
GR	1048.8	6595.0	1049.3	6945.5	1048.6	7249.3	1048.7	7555.9	1050.3	7609.3
GR	1048.1	7658.2	1048.7	7891.4	1046.9	8023.9	1048.4	8080.3	1049.5	8360.8
GR	1048.2	8479.4	1049.2	8804.9	1049.5	8987.3	1056.8	9018.8	1057.1	9060.6
GR	1055.8	9070.6	1049.0	9095.7	1049.7	9201.7	1054.3	9260.0	1052.4	9346.1
GR	1044.1	9384.8	1042.5	9397.0	1042.1	9410.5	1042.7	9434.8	1041.1	9480.2
GR	1041.2	9525.0	1044.7	9585.3	1049.1	9602.1	1050.2	9655.1	1047.0	9656.1
GR	1046.8	9721.8	1048.2	9747.7	1046.3	9779.5	1044.9	9840.6	1039.8	9874.3
GR	1040.9	9908.3	1039.4	9961.9	1040.9	9979.3	1040.0	10148.4	1046.2	10284.4
GR	1044.4	10195.6	1047.6	10208.0	1047.3	10223.3	1050.6	10292.9	1050.7	10476.2
GR	1049.9	10483.4	1051.0	10496.2	1052.4	10732.5	1053.4	10761.6	1052.3	10771.6
GR	1053.2	10784.1								

NC 0.3 0.5 9640 10253.1

ET 11.410 9.11 9.11  
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\*\*\*\*\* GLENDALE ROAD \*\*\*\*\*  
\*\*\*\*\* LOW CHORD = 1057.5 \*\*\*  
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X1	11.410	95	9641.6	10214.3	330	580	451.31			
GR	1053.6	6114.3	1053.3	6169.3	1053.7	6283.1	1053.9	6430.8	1054.3	6602.3
GR	1054.5	6763.6	1054.3	6956.7	1054.3	6972.7	1054.1	6984.5	1054.3	7000.9
GR	1054.1	7159.0	1053.9	7194.6	1053.8	7365.0	1053.6	7533.4	1053.6	7687.3
GR	1053.7	7841.3	1053.5	7856.8	1053.8	7871.7	1053.7	7899.7	1053.9	8024.7
GR	1053.7	8041.0	1054.2	8077.1	1054.3	8302.3	1054.1	8348.6	1054.3	8422.4
GR	1054.8	8478.0	1055.0	8639.5	1055.0	8682.0	1054.8	8703.8	1055.4	8855.5
GR	1055.4	8859.8	1055.9	8874.6	1055.8	8882.4	1056.3	8896.5	1056.9	8898.2
GR	1057.3	8904.0	1056.4	8911.3	1056.6	8966.5	1055.0	8977.0	1055.1	8992.0
GR	1056.6	9087.2	1056.4	9099.5	1057.5	9199.7	1057.5	9226.1	1057.3	9233.4
GR	1057.2	9281.4	1058.7	9552.5	1058.7	9568.7	1059.0	9584.6	1058.8	9600.2
GR	1059.4	9621.1	1059.3	9624.0	1057.2	9638.1	1056.6	9639.4	1056.6	9641.6
GR	1053.6	9646.1	1050.0	9654.8	1048.5	9658.8	1048	9683.9	1048	9723.6
GR	1048	9730.8	1048	9740.1	1048	9761.7	1048	9806.1	1047.5	9830.0
GR	1043.3	9845.7	1043.1	9858.1	1043.2	9872.0	1042.7	9889.1	1043.3	9892.2
GR	1043.2	9901.8	1043.6	9914.4	1042.1	9939.5	1042.4	9944.2	1042.2	9955.6
GR	1042.3	9968.4	1043.2	9979.9	1042.2	10055.1	1042.3	10088.0	1042.0	10124.7
GR	1041.8	10201.1	1045.5	10214.3	1047.7	10218.9	1049.4	10222.1	1050.8	10225.9
GR	1054.0	10233.1	1055.9	10238.4	1058.2	10241.9	1059.5	10246.5	1059.1	10249.7
GR	1059.6	10251.0	1060.1	10254.6	1060.6	10283.0	1060.6	10294.1	1060.8	10298.7

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ET	11.428	9.11	9.11					9600	10253.1	
SB	1.05	1.56	2.70	0	535	15	7069	1.5	1044.4	1044.4
X1	11.428	94	9814.2	10227.2	145	145	145			
X2	0	0	1	1057.5	1065.4	0	0	1.33	0	0
BT	21	6000	1054.7		6226	1055		6414	1054.9	
BT	6745	1054.9		6897	1054.7		7069	1054.3		7223
BT	1053.8		7393	1053.9		7565	1054.1		7735	1054.4
BT		7891	1054.9		8178	1055.4		8265	1055.4	
BT	8423	1055.7		8601	1055.8		8771	1056.6		8941

Effective Model Output  
AGUAFRIA.OUT

BT	1059.1		9600.9	1062.7	1062.7	9601	1065.4	1057.5	10200.	1065.4
BT	1057.5	10201.0	1062.7	1062.7						
GR	1053.9	6112.3	1053.8	6146.3	1053.1	6190.4	1052.6	6205.4	1053.1	6261.9
GR	1053.5	6420.4	1054.0	6584.1	1053.8	6696.9	1054.0	6739.9	1054.9	6743.7
GR	1055.7	6751.3	1056.1	6785.1	1054.7	6802.7	1053.8	6851.1	1053.3	6955.0
GR	1053.6	7084.9	1053.3	7307.9	1053.3	7364.2	1053.8	7369.9	1054.2	7435.4
GR	1053.4	7516.6	1052.9	7610.6	1054.4	7621.3	1056.7	7630.6	1057.7	7643.1
GR	1053.8	7652.2	1052.9	7716.2	1052.6	7792.8	1052.9	7815.9	1052.3	7822.9
GR	1054.1	7846.5	1054.2	7872.5	1053.6	7883.0	1053.0	7921.1	1053.9	8007.5
GR	1054.0	8166.3	1053.7	8198.4	1054.1	8224.5	1053.9	8254.5	1053.9	8299.6
GR	1053.6	8314.2	1054.1	8483.6	1053.9	8536.8	1054.7	8651.9	1055.0	8808.0
GR	1055.4	8840.7	1055.5	8882.6	1056.2	8968.2	1056.1	8995.0	1056.7	9025.9
GR	1057.0	9076.1	1055.8	9081.4	1057.8	9120.0	1059.0	9222.0	1057.1	9241.3
GR	1058.6	9270.3	1059.7	9320.2	1058.2	9361.0	1060.2	9374.9	1061.5	9379.8
GR	1062.2	9431.7	1058.7	9446.3	1058.1	9460.4	1061.1	9473.0	1060.3	9587.0
GR	1058.2	9587.8	1058.3	9604.0	1058.6	9607.0	1056.6	9613.1	1053.6	9620.2
GR	1051.9	9625.0	1050	9632.2	1050	9640.6	1050	9714.2	1050	9725.0
GR	1050	9750.0	1050	9763.8	1050	9786.9	1050	9794.8	1049.8	9814.2
GR	1048.4	9820.3	1045.1	9831.8	1044.5	9880.4	1044.2	9937.0	1043.7	9966.4
GR	1042.2	9986.0	1042.6	10059.1	1041.8	10166.5	1050.7	10188.8	1056.7	10205.7
GR	1057.7	10207.0	1059.3	10210.4	1060.1	10227.2	1060.7	10253.1		

GR POINTS MODIFIED - BOTTOM OF GRAVEL MINE RAISED TO ELIMINATE NON-EFFECTIVE FLOW AREA BETWEEN SECTIONS 11.460 TO 12.529.

NC	0.15	0.055	0.035							
QT	2	34500	34500							
ET	11.460	9.1	7.1				9530	10194	9515	10610
X1	11.460	96	9829.2	10193.7	165	165	166.83			
GR	1048.7	3331.8	1050.6	3427.5	1051.5	3449.8	1050.7	3451.6	1051.4	3457.3
GR	1047.5	3475.5	1047.8	3787.8	1047.7	4087.8	1047.7	4400.0	1049.2	4727.8
GR	1049.3	5045.8	1050.7	5387.8	1049.6	5687.8	1048.7	5737.8	1049.1	5784.3
GR	1055.8	5826.6	1054.9	5953.7	1053.2	5972.8	1050.3	5989.9	1051.3	6007.3
GR	1046.1	6051.2	1047.7	6088.8	1051.6	6106.6	1051.2	6115.8	1045.9	6133.4
GR	1043.8	6185.1	1044.8	6204.8	1050.4	6231.6	1051.0	6251.9	1049.7	6263.2
GR	1048.8	6341.8	1047.7	6356.9	1049.7	6370.8	1050.8	6685.0	1049.9	6906.9
GR	1046.6	6933.3	1046.5	6941.5	1051.7	6976.3	1052.4	6995.7	1051.5	7009.8
GR	1049.3	7016.2	1048.9	7336.7	1051.1	7392.1	1051.6	7434.1	1053.8	7444.7
GR	1050.7	7460.5	1048.7	7594.5	1050.3	7926.5	1050.9	8005.2	1052.8	8015.8
GR	1050.0	8025.2	1049.3	8297.7	1050.3	8351.7	1049.9	8387.9	1051.5	8439.7
GR	1050.6	8526.3	1049.4	8558.8	1051.0	8584.4	1049.5	8886.8	1049.2	9051.9
GR	1038.5	9080.3	1032.5	9093.3	1027.2	9157.5	1027.6	9186.2	1041.9	9228.5
GR	1043.4	9238.8	1048.0	9247.9	1052.5	9272.9	1049.3	9280.5	1046.6	9300.4
GR	1045.4	9360.4	1061.5	9405.4	1061.0	9439.8	1046.6	9474.4	1047.1	9491.2
GR	1051.8	9501.9	1054.1	9509.6	1054.5	9517.3	1050.9	9533.8	1050	9543.0

GR	1050	9569.7	1050	9687.9	1050	9811.5	1052.0	9829.2	1045.8	9844.2
GR	1043.8	9975.9	1042.4	9999.1	1042.2	10044.5	1044.8	10061.6	1043.3	10146.0
GR	1041.3	10161.4	1046.8	10193.7	1048.9	10197.1	1053.1	10216.9	1054.2	10228.7
GR	1058	10610								

ET	11.557	9.1	7.1				9200	10101	8970	10122.1
X1	11.557	95	9881.6	10100.9	510	510	510.85			
GR	1049.8	5996.1	1049.4	6005.2	1050.0	6052.1	1051.1	6070.8	1057.1	6085.5
GR	1049.3	6107.5	1050.7	6151.4	1051.3	6203.3	1051.5	6352.2	1051.1	6402.8
GR	1051.2	6502.5	1050.4	6552.2	1051.6	6710.5	1051.5	6753.3	1050.9	6760.4
GR	1051.5	6802.2	1051.7	6971.8	1049.9	6995.6	1050.4	7260.8	1050.8	7302.2
GR	1050.1	7352.2	1050.0	7472.8	1049.1	7482.4	1049.0	7502.2	1050.4	7591.0
GR	1051.9	7595.5	1052.2	7607.9	1050.4	7618.5	1050.2	7664.5	1051.2	7715.0
GR	1051.2	7802.2	1052.4	7855.1	1052.8	7902.2	1052.2	7957.7	1051.8	7962.9
GR	1052.4	7973.1	1056.4	7982.2	1023.7	8030.9	1023.9	8118.8	1022.8	8202.2
GR	1026.1	8452.2	1026.3	8492.9	1038.0	8514.0	1041.3	8520.6	1044.5	8525.6
GR	1051.8	8540.7	1051.9	8602.3	1052.7	8617.6	1046.2	8630.3	1036.0	8651.4
GR	1035.2	8702.3	1037.2	8852.3	1037.2	8928.2	1050	8970.0	1050	9126.4
GR	1050	9259.7	1050	9271.6	1050	9282.5	1050	9301.2	1050	9317.2
GR	1050	9332.6	1050	9347.1	1050	9367.0	1050	9390.9	1050	9410.4
GR	1050	9433.5	1050	9440.9	1050	9463.7	1050	9490.9	1050	9521.8
GR	1050	9550.3	1050	9585.2	1050	9602.3	1050	9632.9	1050	9701.6
GR	1050	9717.3	1050	9742.1	1050	9774.0	1050	9782.9	1050	9799.3
GR	1050	9845.0	1050	9865.4	1050	9872.3	1051.2	9881.6	1044.5	9900.1
GR	1043.9	9927.3	1042.7	9944.6	1041.8	9978.7	1041.7	9995.0	1045.5	10011.0
GR	1042.9	10052.3	1043.4	10070.4	1058.9	10100.9	1062.0	10119.6	1062.0	10122.1

ET	11.653	9.1	7.1				8800	10123	8420	10245
X1	11.653	96	9908.3	10122.7	510	510	508.97			
GR	1050.9	5993.5	1051.1	6010.5	1053.5	6039.1	1058.4	6055.9	1052.5	6069.4
GR	1022.3	6097.8	1022.1	6350.9	1023.6	6352.3	1033.6	6376.4	1032.4	6378.9
GR	1032.6	6382.9	1054.0	6400.7	1053.2	6577.2	1052.3	6627.2	1052.3	6827.2
GR	1052.2	6888.9	1051.0	6940.7	1050.8	6971.3	1049.6	6985.6	1047.6	6998.8
GR	1050.6	7039.3	1050.4	7077.2	1051.4	7127.2	1050.5	7209.1	1051.7	7298.5
GR	1051.3	7377.2	1052.1	7435.2	1053.8	7445.0	1051.2	7455.8	1051.2	7577.2
GR	1052.0	7627.2	1052.2	7677.2	1052.7	7687.9	1052.4	7725.2	1054.8	7781.2
GR	1055.7	7827.2	1054.5	7850.9	1054.3	7877.2	1052.7	7927.2	1054.6	7946.9
GR	1058.1	7959.7	1031.6	7987.9	1029.5	7990.7	1026.0	7993.9	1025.1	8027.2
GR	1052	8153.5	1052	8439.3	1052	8472.1	1052	8496.3	1052	8500.9
GR	1052	8598.9	1055.4	8610.0	1052	8621.6	1052	8640.8	1052	8677.2
GR	1052	8745.8	1052	8840.7	1052	8944.1	1052	9077.3	1052	9177.3
GR	1052	9222.7	1052	9274.2	1052	9287.7	1052	9302.9	1052	9317.3
GR	1052	9325.1	1052	9329.2	1052	9377.3	1052	9427.3	1052	9528.9
GR	1052	9547.5	1054.8	9572.1	1055.4	9582.0	1052.0	9595.0	1053.8	9659.3
GR	1055.3	9666.5	1055.7	9684.0	1052.7	9700.4	1053.0	9705.9	1052.7	9710.0
GR	1054.4	9733.4	1058.7	9766.6	1058.0	9772.8	1055.8	9782.8	1052	9827.2
GR	1052	9835.0	1054.4	9856.8	1052.8	9871.3	1053.5	9894.6	1057.3	9908.3

Effective Model Output  
AGUAFRIA.OUT

GR 1052.0 9920.3 1047.5 9935.0 1043.1 9959.2 1044.7 10077.3 1058.0 10122.7  
 GR 1062 10245  
 1  
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ET	11.750	9.1	7.1				8400	10170	7870	10170
X1	11.750	95	9901.0	10107.0	510	510	510.54			
GR	1054.1	5963.9	1054.4	5986.6	1060.3	6008.2	1054.5	6034.3	1052.8	6039.1
GR	1021.9	6080.6	1022.3	6298.0	1025.0	6532.5	1024.0	6582.5	1026.6	6701.8
GR	1026.1	6802.8	1027.0	6853.3	1026.7	6983.6	1053.0	7017.3	1053.8	7044.6
GR	1052.9	7107.3	1051.1	7134.3	1051.9	7163.2	1057.9	7178.1	1055.1	7186.3
GR	1052.8	7191.0	1052.9	7410.4	1053.8	7416.5	1051.7	7424.7	1052.6	7521.1
GR	1053.7	7532.5	1058.8	7555.5	1058.0	7588.7	1056.0	7592.3	1053.9	7692.3
GR	1055.8	7827.0	1058.1	7846.8	1057.9	7885.5	1054	7899.1	1055.2	7905.7
GR	1057.9	7913.3	1054	7949.4	1054	8013.4	1054	8049.1	1054	8069.1
GR	1054	8129.0	1054	8149.2	1054	8159.4	1059.4	8188.5	1059.3	8223.3
GR	1057.1	8231.3	1059.7	8243.2	1058.0	8279.5	1058.8	8291.3	1058.7	8301.5
GR	1058.0	8304.4	1057.0	8339.5	1056.9	8382.6	1056.0	8432.6	1056.1	8464.0
GR	1055.5	8475.9	1055.8	8487.5	1057.0	8496.8	1056.1	8501.6	1054	8508.1
GR	1054	8512.0	1054	8542.6	1054	8560.9	1054	8605.3	1054	8659.0
GR	1054	8796.7	1054	8832.6	1054	8842.6	1054	8875.1	1054	8889.6
GR	1054	8926.4	1054	8982.6	1054	9032.6	1054.9	9123.3	1054.7	9137.1
GR	1062.1	9159.1	1063.1	9163.8	1059.7	9185.0	1058.0	9232.6	1057.6	9282.6
GR	1058.1	9338.1	1057.1	9432.6	1057.8	9532.6	1056.5	9783.6	1055.0	9885.1
GR	1057.1	9892.6	1061.0	9901.0	1047.5	9947.4	1046.4	9991.8	1043.2	10000.3
GR	1043.8	10067.0	1048.4	10085.8	1056.1	10107.0	1056.1	10109.0	1062	10170

ET	11.847	9.1	7.1				8000	10173	7310	10173
X1	11.847	95	9914.3	10113.4	510	510	512.16			
GR	1061.0	5959.4	1023.2	6001.3	1024.8	6150.7	1020.3	6166.8	1020.8	6222.1
GR	1020.5	6241.4	1022.6	6391.4	1022.3	6441.4	1023.9	6541.4	1023.0	6666.3
GR	1024.4	6841.4	1025.6	7020.0	1025.3	7091.4	1027.0	7172.7	1055.3	7215.7
GR	1056	7373.1	1056	7376.2	1056	7382.1	1056	7557.1	1056	7591.4
GR	1056	7626.5	1056	7656.1	1056	7691.4	1056	7741.4	1057.3	7778.0
GR	1056.6	7819.6	1056	7856.7	1056	7874.0	1056	7885.8	1056	7916.5
GR	1056	7938.7	1056	7942.0	1056	7963.4	1056	7982.2	1058.9	7990.0
GR	1059.3	7995.7	1056	8032.9	1056	8063.4	1058.2	8084.5	1060.8	8095.1
GR	1058.8	8138.1	1058.8	8148.7	1060.5	8161.8	1059.4	8184.6	1057.4	8213.7
GR	1057.6	8232.2	1056.1	8245.2	1057.5	8252.7	1057.9	8260.3	1057.6	8270.7
GR	1056	8284.7	1056	8301.9	1056	8333.1	1056	8356.2	1056	8408.0
GR	1056	8592.2	1056	8641.5	1056	8744.8	1056	8791.5	1056	8823.3
GR	1056	8852.4	1056	8880.5	1056	8892.9	1056	8902.5	1056	8917.3
GR	1056	8939.8	1056	8964.7	1056	8993.3	1056	9009.1	1055.5	9091.8
GR	1057.3	9243.1	1058.7	9293.9	1059.9	9395.0	1057.4	9591.8	1058.5	9751.4
GR	1056.6	9803.6	1056.2	9841.5	1057.1	9897.5	1063.4	9914.3	1055.7	9929.5
GR	1048.3	9947.2	1047.8	9950.9	1048.1	9956.8	1047.6	9972.9	1045.0	9986.9
GR	1044.6	9996.6	1045.0	10045.8	1046.9	10059.5	1047.3	10080.1	1050.8	10087.3
GR	1050.4	10088.2	1050.5	10097.7	1052.1	10113.4	1056.2	10124.4	1066	10173

ET	11.90	9.1	7.1				7750	10198.5	6880	10198.5
X1	11.90	94	9890	10093.1	340	275	273			
GR	1065.0	5822.0	1056.8	5835.3	1056.7	5856.5	1054.9	5866	1057.4	5894.9
GR	1058.9	5946.1	1058	5955	1058	5996.4	1058.4	6002	1059.9	6003.8
GR	1058.3	6113.9	1059	6147.2	1058.8	6256	1058	6365.8	1058	6442.1
GR	1058	6571.5	1058	6682.2	1058	6806.8	1058	6932.9	1058	7062.5
GR	1058	7198.2	1058	7304.4	1058	7343.6	1058	7364.2	1059.7	7375
GR	1061.2	7381.3	1059.7	7387.6	1058	7406.7	1058	7511	1062.5	7524.6
GR	1061.1	7529.8	1059.2	7581	1059.3	7629	1058	7685.9	1058	7831.8

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GR	1058	7920.6	1063.8	7941.2	1064.5	7945.8	1063.7	7960.4	1064.4	7990.1
GR	1063.2	8048.6	1058	8068.6	1062.8	8082.3	1061.5	8086.2	1059.8	8122.9
GR	1065.1	8136.7	1065.6	8191.5	1064	8204.9	1064.1	8211	1065.7	8214.6
GR	1067.8	8232.1	1062.6	8244.5	1058	8282.3	1058	8328.3	1058	8351.7
GR	1058	8385.9	1058	8401.5	1058	8426.2	1058	8538.4	1058	8653.7
GR	1058	8698.6	1058	8720.8	1058	8792	1058	8798.2	1058	8853.4
GR	1058	8972.8	1058.4	9027.2	1059.6	9126.8	1059.3	9178.1	1061.2	9242.5
GR	1060.1	9288.5	1061.3	9411	1060.4	9485.6	1060.8	9534.5	1059.4	9541.4
GR	1060.6	9596.9	1063.2	9609.9	1063.9	9638.7	1062.7	9677.2	1062.9	9750.9
GR	1059.2	9861.6	1060.5	9874.7	1064.4	9890	1047	9922.7	1045.2	9943.3
GR	1048.7	9962.9	1047	9975.4	1046.8	10010.4	1048.5	10036.8	1047.8	10038.6
GR	1048.8	10072.3	1058.5	10093.1	1058.2	10137.1	1067.4	10198.5		

ET	11.943	9.1	7.1				7650	10182	6800	10182
X1	11.943	96	9886	10084.8	150	235	235.61			
GR	1068.2	6060.0	1060.2	6075.8	1051.8	6095.8	1044.8	6120.9	1039.8	6143.7
GR	1036.9	6169.7	1036.4	6182.4	1029.5	6237.4	1029.4	6282.3	1038.0	6358.8
GR	1043.2	6380.4	1047.1	6403.9	1052.8	6410.1	1038.6	6431.2	1036.4	6467.9
GR	1038.1	6473.1	1040.0	6483.6	1039.8	6490.5	1041.2	6498.6	1041.1	6507.6
GR	1051.3	6549.8	1049.3	6562.6	1050.0	6568.7	1055.8	6597.8	1054.4	6616.7
GR	1051.8	6635.6	1054.6	6666.9	1055.8	6697.1	1058	6847.1	1058	6880.5
GR	1058	6900.6	1058	6924.3	1058	7034.9	1058	7058.3	1058	7066.9
GR	1058	7156.0	1058	7198.5	1058	7202.3	1058	7216.0	1058	7353.9
GR	1058	7397.1	1058.8	7497.1	1060.1	7603.1	1058	7641.5	1058	7677.5
GR	1058	7754.9	1058	7853.2	1058	7901.8	1058	7996.6	1058	8097.2
GR	1058	8195.4	1058	8232.1	1058	8297.2	1058	8347.0	1058	8364.3
GR	1058	8380.5	1058	8390.4	1058	8397.3	1058	8404.0	1058	8411.1
GR	1058	8595.1	1058	8647.2	1058	8676.1	1058	8690.9	1058	8711.2
GR	1058	8721.5	1058	8747.0	1058	8788.8	1058	8905.0	1058	9043.7
GR	1058	9079.0	1058	9081.2	1058.5	9136.1	1060.8	9243.1	1060.3	9347.3
GR	1061.0	9413.8	1059.8	9496.5	1062.5	9544.9	1060.0	9588.2	1060.0	9670.5

Effective Model Output  
AGUAFRIA.OUT

GR	1065.2	9720.9	1067.1	9770.5	1062.0	9867.0	1064.0	9875.8	1067.5	9886.0
GR	1050.0	9923.3	1049.5	9938.4	1048.2	9953.1	1048.3	9983.1	1046.7	9991.1
GR	1046.8	10011.1	1049.2	10028.4	1048.7	10056.8	1054.6	10084.8	1061.1	10106.2
GR	1070	10182								
ET	12.042	9.1	7.1				7400	10165	6350	10165
XI	12.042	62	9903.4	10070	500	540	520			
GR	1066	5900	1058	5930	1058	6005	1059	6024.1	1059.2	6048.5
GR	1060	6057.8	1058.2	6082.7	1058.2	6096.6	1058.2	6138.2	1058.2	6154.2
GR	1058.2	6173.8	1058.2	6190.9	1058.2	6201.8	1058.2	8555.6	1058.2	8631.6
GR	1058.2	8641.8	1061.8	8660.4	1058.2	8806	1058.2	8910.3	1058.2	8998.8
GR	1058.2	9007.9	1058.2	9078.3	1058.2	9101.9	1058.2	9111.5	1058.2	9145.2
GR	1058.2	9148.5	1058.2	9164.4	1058.2	9181.1	1058.2	9201.8	1058.2	9211.2
GR	1058.2	9267.4	1058.2	9290.8	1058.2	9298.9	1059.3	9367.2	1062.4	9377.5
GR	1062.9	9390.5	1059.5	9402	1058.5	9412.2	1058.2	9418.8	1058.2	9447.6
GR	1061.2	9485.4	1061	9536.3	1058.2	9574.9	1058.2	9588	1058.2	9609.8
GR	1058.2	9615.8	1058.2	9622.9	1058.2	9667.5	1058.2	9802.1	1058.2	9840.1
GR	1058.2	9853.8	1062.1	9867.5	1060.9	9871.4	1061.8	9900.2	1063	9903.4
GR	1050.5	9940	1049.3	9955.3	1049.7	9979.1	1048.5	9992.6	1049.8	10044
GR	1062	10070	1068	10165						

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ET	12.141		7.1				7200	10080		
XI	12.141	60	9923.3	10075.5	510	535	526.38			
GR	1066.5	6189.1	1058.4	6216.3	1058.4	6242.6	1058.4	6252.9	1058.4	6260.4
GR	1058.4	8718.0	1058.4	8771.0	1058.4	8824.7	1058.4	8849.8	1058.4	8894.4
GR	1063.9	8951.4	1066.2	8960.3	1067.7	8970.2	1065.5	8987.1	1065.5	9009.4
GR	1060.3	9028.3	1059.2	9097.0	1059.9	9111.0	1058.4	9132.4	1058.4	9152.0
GR	1058.4	9163.9	1058.4	9176.0	1058.4	9186.1	1058.4	9203.6	1058.4	9261.8
GR	1058.4	9291.3	1062.2	9313.4	1058.4	9332.2	1058.4	9360.6	1058.4	9394.5
GR	1058.4	9399.9	1058.4	9427.8	1058.4	9450.6	1058.4	9479.5	1058.4	9504.7
GR	1058.4	9518.8	1058.4	9535.5	1058.4	9543.5	1058.4	9597.5	1058.4	9611.3
GR	1058.4	9651.5	1058.4	9711.5	1059.4	9724.2	1061.3	9727.9	1058.4	9749.8
GR	1058.6	9756.7	1058.6	9783.4	1064.4	9797.3	1058.4	9822.8	1058.4	9863.2
GR	1058.4	9875.3	1061.0	9885.9	1061.1	9917.1	1062.9	9923.3	1052.2	9960.4
GR	1049.3	10020.0	1050.0	10055.4	1051.9	10058.0	1066.0	10075.5	1068	10165

ET	12.247		7.1				7300	10086		
XI	12.247	40	9898.6	10085.8	510	565	560.46			
GR	1068.9	6348.1	1062.1	6370.1	1058.6	6375.9	1058.6	6395.6	1058.6	6398.0
GR	1058.4	6411.5	1058.6	6441.6	1058.6	6488.5	1058.6	6587.2	1058.6	6727.5
GR	1058.6	6777.5	1058.6	6873.5	1058.6	6881.5	1061.2	6933.5	1061.8	6941.9
GR	1058.6	6966.0	1058.6	6980.6	1058.6	6989.1	1058.6	7017.6	1058.6	7027.6
GR	1058.6	9627.7	1058.6	9671.6	1058.6	9687.4	1058.6	9741.8	1059.6	9770.6
GR	1058.8	9796.4	1059.4	9802.5	1061.9	9813.4	1058.6	9826.4	1058.6	9850.5
GR	1061.2	9894.5	1062.6	9898.6	1057.1	9919.5	1052.6	9946.6	1052.6	9977.4
GR	1050.7	9988.8	1050.8	10013.0	1052.1	10024.6	1066.0	10085.8	1070	10180

ET	12.359		7.1				7600	10100		
XI	12.359	73	9691.6	10061.0	500	580	586.15			
GR	1072.1	6582.4	1071.7	6589.2	1068.7	6615.2	1063.8	6638.2	1062.9	6640.3
GR	1058.8	6683.5	1058.8	6693.3	1058.8	6743.3	1058.8	6784.1	1058.8	6786.4
GR	1058.8	6798.0	1058.8	6805.8	1058.8	6856.6	1058.8	6876.8	1058.8	6887.6
GR	1058.8	6916.6	1058.8	7003.6	1058.8	7043.4	1058.8	7092.0	1061.7	7133.0
GR	1060.7	7161.1	1058.8	7186.6	1058.8	7193.4	1058.8	7243.4	1058.8	7342.0
GR	1058.8	8874.6	1058.8	8883.8	1063.7	8902.0	1063.6	8943.6	1062.3	9001.3
GR	1060.3	9003.5	1062.7	9011.5	1063.0	9014.6	1058.8	9033.5	1058.8	9047.4
GR	1058.8	9057.0	1058.8	9178.7	1058.8	9192.4	1058.8	9203.0	1058.8	9217.6
GR	1058.8	9232.5	1058.8	9258.5	1058.8	9260.9	1058.8	9340.5	1058.8	9357.9
GR	1058.8	9379.0	1058.8	9416.1	1058.8	9443.7	1058.8	9519.0	1058.8	9540.8
GR	1058.8	9563.4	1058.8	9581.8	1058.8	9594.7	1059.0	9613.1	1060.0	9670.0
GR	1065.3	9691.6	1062.3	9701.0	1057.6	9724.4	1054.6	9741.9	1052.8	9749.1
GR	1052.6	9781.4	1051.7	9793.1	1053.7	9873.9	1056.6	9885.0	1056.9	9922.2
GR	1058.5	9932.6	1053.3	9954.7	1053.2	10049.9	1054.7	10061.0	1056.0	10070.1
GR	1066	10095	1068	10250	1070.1	10395.0				

ET	12.42	9.1	7.1				7850	10200	7000	10782.8
XI	12.42	90	9014.1	10111.3	380	270	302.47			
GR	1066.5	6488.3	1067.3	6516.9	1066.9	6538.8	1065.6	6544.1	1065.2	6555.4
GR	1063	6566.1	1063	6635.3	1064	6639.2	1064.4	6677.3	1066.7	6684.3
GR	1062.8	6700	1064.1	6824.3	1065.4	6940.9	1065.8	7074.3	1065.5	7208.6
GR	1065.1	7246.4	1061.2	7255.4	1059.8	7299.4	1062.1	7306.5	1062	7326.9
GR	1060	7334.7	1060	7337.3	1060	7452.7	1060	7563.2	1060	7606.2
GR	1060	7611.8	1060	7724.4	1060	7751.7	1061.5	7790.8	1060	7802.3
GR	1060	7889.3	1060	7899	1062	7929.1	1062.3	7952.3	1063	7958.2

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GR	1060	7993.2	1060	8021.8	1065.2	8037.7	1060	8056.6	1060	8147.7
GR	1063.7	8165	1063.1	8180.5	1060	8205.4	1060	8219.3	1060	8236.9
GR	1060	8289.4	1060	8387.8	1060	8438.5	1062.8	8461.2	1064.7	8478.4
GR	1065.5	8502.4	1065.2	8610.1	1065.1	8710.9	1064.7	8824.7	1066	8893.4
GR	1066.8	8915.4	1065	8931.2	1065.3	8957.3	1063.9	9002.6	1065.1	9014.1
GR	1063.6	9124.6	1062.8	9159.9	1061.9	9172.6	1061	9175.8	1059.8	9224.7
GR	1060.6	9260	1054	9283.3	1056.1	9324.5	1055	9423.2	1055.9	9446.7
GR	1065	9553.3	1055.4	9600.5	1054.8	9624.7	1055.6	9731.3	1056.7	9834.5
GR	1057.4	9930.4	1054.5	9953.6	1054.3	10052.7	1065.2	10111.3	1066.3	10121
GR	1061.6	10137.4	1063	10155.7	1061.7	10166.7	1065.6	10224.7	1067.9	10342.7
GR	1069.3	10405.9	1070	10524.7	1071	10651.2	1071.3	10747.9	1072.1	10782.8

NC .045 .040 .035 0.1 0.3

Effective Model Output  
AGUAFRIA.OUT

ET	12.47	9.1	7.1				8000	10300	7298.5	11052.3
X1	12.47	89	9382.2	10296.2	230	240	255			
GR	1064.5	4763.1	1062.7	4887.7	1063.3	5104.7	1063.3	5320.6	1063.5	5506.2
GR	1063.6	5669	1063.7	5828.2	1064.1	5991.4	1064.1	6208.4	1064.2	6360.9
GR	1064.7	6513.5	1065	6673.9	1065.1	6727.4	1065.1	7169.1	1064.7	7284.6
GR	1070	7298.5	1066.7	7309.6	1065	7420.7	1065.6	7496	1061	7510.2
GR	1061	7523.9	1061	7653	1061	7733.2	1064.2	7779.6	1064	7830.3
GR	1063	7841.4	1063.8	7920.8	1063.6	8025.7	1060.9	8058	1061	8135.2
GR	1063.8	8147.9	1062.7	8155.3	1062.9	8177	1061	8187.9	1061.6	8220.1
GR	1061	8243.8	1061	8256	1061	8437.2	1061	8555.4	1061.5	8588.2
GR	1065.1	8611.2	1065.9	8770.9	1066.2	8936.5	1066.3	9022.8	1068.5	9054
GR	1066.9	9078	1066.2	9160.8	1067.7	9182.8	1066.7	9241	1065.2	9255
GR	1067.1	9268.4	1064	9284.4	1063.2	9312.2	1062	9323.8	1062.3	9332.3
GR	1064.2	9344.3	1064	9382.2	1054.9	9402.5	1055.7	9424.8	1056.6	9429.8
GR	1062.3	9503.1	1057.5	9517.8	1055.6	9552.9	1063.1	9571.1	1057.9	9589.1
GR	1057.7	9655.3	1059	9681.4	1062	9712.2	1062.6	9848.4	1058.3	9882.7
GR	1054.9	9899.5	1056.2	9971.8	1055.1	10061.7	1059.4	10091.5	1059	10103.1
GR	1062.3	10176.7	1056.2	10192	1057.4	10274.1	1064	10296.2	1065.6	10311.1
GR	1065.2	10376.4	1069.1	10395.2	1069.1	10414.7	1068.1	10420.1	1069.3	10571.1
GR	1071.1	10771.2	1072.9	10960.5	1074	11033.9	1073.3	11052.3		

ET	12.529	9.1	7.1				8200	10393.3	7465.8	10393.3
X1	12.529	93	9552.2	10362.3	210	390	345			
GR	1063.3	5058.0	1063.5	5224.9	1063.8	5374.8	1063.8	5484.7	1063.9	5627.9
GR	1064.0	5769.7	1064.3	5927.6	1064.5	6074.9	1064.6	6227.2	1064.8	6379.7
GR	1065.0	6532.2	1065.2	6665.7	1065.7	6825.0	1065.7	6975.1	1065.8	7091.4
GR	1065.8	7225.1	1066.2	7396.4	1066.8	7454.8	1068.7	7465.8	1066.8	7471.4
GR	1066.4	7525.1	1065.0	7599.7	1065.3	7659.9	1061.5	7674.9	1061.5	7748.7
GR	1061.5	7775.2	1061.5	7866.1	1061.5	7877.1	1063.0	7885.7	1064.4	7929.9
GR	1064.2	7950.3	1065.1	8043.4	1064.2	8125.2	1063.8	8144.6	1064.5	8158.5
GR	1064.0	8175.8	1062.7	8196.8	1064.4	8204.9	1064.1	8244.3	1062.9	8270.0
GR	1062.0	8299.0	1062.1	8325.3	1061.5	8375.2	1061.5	8390.3	1061.5	8413.2
GR	1061.5	8423.3	1061.5	8475.3	1061.5	8535.5	1061.5	8625.3	1061.5	8651.7
GR	1061.9	8675.3	1063.4	8708.9	1065.1	8724.9	1064.7	8726.4	1066.0	8775.3
GR	1066.5	8875.3	1066.2	8925.3	1067.0	8975.3	1067.2	9125.9	1067.2	9225.4
GR	1068.1	9260.4	1067.1	9277.4	1067.7	9301.4	1069.8	9330.8	1067.4	9356.0
GR	1066.3	9377.2	1066.4	9387.9	1065.5	9414.2	1066.0	9457.2	1067.2	9470.2
GR	1066.1	9487.6	1063.9	9542.4	1062.1	9552.2	1058.8	9566.4	1057.9	9572.7
GR	1058.0	9613.2	1059.1	9629.5	1058.3	9703.0	1057.0	9731.3	1057.2	9785.1
GR	1056.1	9826.0	1056.8	9888.2	1057.7	9940.8	1057.5	10013.8	1058.5	10025.0
GR	1057.7	10100.7	1058.8	10172.6	1058.7	10193.9	1059.7	10227.0	1058.0	10267.6

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GR	1060.3	10341.8	1060.5	10362.3	1067.1	10393.3				
ET	12.630	9.1	7.1				9080	10500	8085.7	10770.0
X1	12.630	95	9640.3	10396.9	520	550	532.95			
GR	1064.3	5332.2	1064.6	5578.3	1064.7	5778.3	1065.1	5978.4	1065.3	6178.4
GR	1065.9	6428.4	1066.7	6678.5	1066.8	6878.5	1067.3	7148.7	1067.5	7443.2
GR	1067.5	7508.1	1069.0	7518.2	1069.3	7529.1	1066.8	7540.6	1067.6	7728.7
GR	1068.1	7744.9	1070.2	7762.1	1071.3	7763.5	1072.1	7768.2	1071.8	7784.3
GR	1070.7	7791.6	1067.7	7828.7	1066.8	7920.0	1066.0	7930.0	1066.2	7939.6
GR	1069.6	7949.9	1068.2	7953.2	1068.2	7958.1	1070.8	7966.0	1065.0	7973.4
GR	1058.2	7979.6	1058.9	7981.6	1058.6	7993.5	1057.3	8000.2	1055.9	8016.0
GR	1058.0	8020.4	1060.1	8027.8	1063.0	8032.8	1065.7	8035.6	1065.0	8041.8
GR	1067.2	8045.1	1067.1	8071.7	1068.3	8080.6	1069.7	8085.7	1062.2	8102.2
GR	1062.4	8128.7	1061.7	8189.5	1064.8	8208.2	1064.8	8229.1	1063.2	8258.3
GR	1063.1	8299.7	1065.1	8328.8	1066.6	8428.8	1065.2	8478.4	1065.7	8481.6
GR	1063.5	8495.8	1062.9	8583.4	1061.4	8591.6	1062.4	8629.3	1062.6	8684.1
GR	1063.8	8705.0	1062.9	8725.5	1063.6	8800.4	1061.7	8829.0	1061.7	8850.0
GR	1065.2	8873.8	1066.7	8942.2	1067.5	9078.9	1067.1	9210.6	1068.7	9378.9
GR	1067.2	9530.2	1068.3	9554.6	1067.1	9558.4	1065.6	9631.4	1061.3	9640.3
GR	1056.2	9674.9	1057.7	9734.1	1057.2	9785.1	1058.2	9859.0	1060.3	9894.0
GR	1059.4	10040.0	1058.6	10142.0	1057.6	10181.8	1059.0	10196.1	1060.5	10310.5
GR	1061.4	10329.7	1061.1	10359.3	1061.9	10396.9	1061.9	10581.9	1060.8	10602.7
GR	1062.4	10612.0	1060.4	10634.9	1061.7	10648.4	1062.0	10732.1	1069.1	10770.0

ET	12.725	9.1	7.1				9550	10530	8342.9	10654
X1	12.725	93	9682.0	10403.6	530	470	499.53			
GR	1067.6	5471.4	1067.3	5676.1	1067.6	5901.9	1067.6	6145.6	1068.1	6345.7
GR	1068.3	6552.7	1068.5	6756.1	1068.5	7022.3	1069.2	7046.1	1070.0	7050.9
GR	1069.7	7061.8	1072.2	7074.8	1068.4	7086.3	1068.5	7167.9	1061.8	7186.6
GR	1061.7	7207.0	1068.6	7225.8	1067.4	7246.8	1063.9	7258.2	1062.2	7268.7
GR	1062.8	7282.2	1068.2	7300.9	1069.3	7395.8	1068.2	7595.8	1068.6	7661.6
GR	1071.1	7672.3	1068.6	7680.6	1069.2	7791.0	1052.4	7819.2	1051.7	7835.0
GR	1052.1	7842.1	1053.6	7849.2	1051.0	7885.3	1051.7	7909.3	1052.8	7918.5
GR	1052.3	7921.1	1059.3	7950.7	1056.0	7961.0	1055.8	8017.7	1052.1	8025.0
GR	1051.7	8047.3	1047.8	8053.1	1047.8	8074.6	1052.2	8086.1	1050.5	8127.1
GR	1046.8	8138.7	1048.2	8172.3	1047.8	8245.9	1048.5	8282.7	1050.1	8304.1
GR	1076.9	8342.9	1073.4	8352.2	1072.8	8387.6	1067.4	8403.1	1070.7	8436.6
GR	1070.4	8462.2	1068.9	8494.4	1063.9	8517.9	1064.1	8564.4	1065.7	8581.1
GR	1066.1	8793.8	1066.2	8814.8	1064.5	8833.3	1064.3	8862.7	1066.2	8883.3
GR	1066.5	8896.0	1065.3	8917.0	1066.6	8961.7	1064.9	9000.7	1067.3	9048.6
GR	1068.5	9194.7	1067.7	9296.0	1068.6	9496.1	1067.9	9646.8	1065.4	9682.0
GR	1056.6	9703.1	1058.0	9834.3	1061.5	9847.2	1061.5	9867.4	1059.0	9945.2
GR	1060.2	9981.2	1061.6	9999.4	1061.5	10039.9	1060.1	10054.7	1061.8	10082.4
GR	1060.7	10149.7	1058.5	10163.8	1058.9	10209.1	1060.2	10224.1	1063.3	10403.6
GR	1064.2	10622.7	1070.8	10654.1	1071.4	10654.4				

ET	12.816	9.1	7.1				9750	10488	8483.3	10488
X1	12.816	94	9781.2	10376.3	520	440	481.56			
GR	1075.1	5376.4	1073.8	5383.0	1073.3	5407.1	1069.7	5426.0	1068.2	5450.3
GR	1063.2	5475.1	1063.8	5505.8	1063.0	5525.5	1063.8	5574.3	1068.4	5600.9

Effective Model Output  
AGUAFRIA.OUT

GR	1068.7	5669.0	1068.1	5684.2	1068.7	5925.6	1068.8	6158.0	1068.9	6375.7
GR	1069.0	6575.7	1069.3	6775.7	1069.4	7089.9	1069.3	7128.3	1071.2	7134.7
GR	1070.9	7141.6	1069.6	7147.9	1069.7	7160.0	1076.1	7174.5	1072.4	7181.4
GR	1070.3	7187.9	1070.5	7204.1	1067.6	7294.7	1069.6	7366.1	1069.0	7425.9

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GR	1059.2	7505.0	1043.3	7519.3	1044.0	7557.8	1047.1	7574.2	1047.6	7580.6
GR	1042.5	7607.2	1043.7	7626.5	1046.7	7845.4	1048.3	7875.9	1047.7	7976.4
GR	1048.7	8001.8	1048.6	8034.0	1044.0	8176.0	1042.7	8325.6	1041.6	8348.3
GR	1047.3	8362.1	1051.2	8369.7	1050.8	8385.9	1051.5	8406.9	1055.8	8419.1
GR	1057.4	8426.0	1063.4	8440.8	1072.0	8474.4	1075.6	8483.3	1070.8	8492.7
GR	1070.9	8528.7	1071.6	8531.0	1067.5	8544.5	1067.0	8570.2	1068.4	8582.8
GR	1067.0	8591.3	1069.7	8655.9	1069.8	8698.9	1068.4	8714.3	1066.3	8926.1
GR	1067.7	9026.1	1068.6	9199.1	1069.7	9276.2	1068.3	9457.4	1071.6	9464.5
GR	1078.4	9483.4	1081.3	9496.1	1082.5	9506.6	1081.6	9523.5	1085.0	9568.3
GR	1083.9	9577.9	1082.0	9585.3	1080.6	9605.0	1079.2	9666.0	1079.3	9714.8
GR	1080.6	9730.0	1081.6	9733.9	1079.3	9751.5	1063.6	9781.2	1057.5	9795.1
GR	1057.4	9833.2	1060.7	9976.3	1060.7	10113.1	1061.7	10130.5	1060.7	10176.3
GR	1064.1	10376.3	1064.0	10426.4	1064.8	10464.1	1072.3	10488.4		

ET	12.913	9.1	7.1				9704	10318	8680	10318
X1	12.913	95	9704.4	10285.7	510	535	513.23			
GR	1078.8	5540.7	1077.7	5612.8	1075.6	5633.0	1074.2	5687.9	1067.3	5715.1
GR	1067.4	5746.7	1071.2	5755.3	1071.2	5773.4	1070.5	5792.7	1070.9	5973.7
GR	1071.0	6173.7	1071.1	6273.7	1071.2	6532.5	1071.3	6729.2	1071.3	6923.8
GR	1071.5	7125.2	1071.5	7177.4	1072.7	7185.8	1071.1	7200.1	1071.5	7237.6
GR	1074.3	7247.6	1071.1	7256.5	1071.4	7373.9	1070.7	7423.9	1068.8	7466.0
GR	1069.8	7485.0	1070.0	7498.5	1065.4	7510.8	1063.6	7517.0	1064.4	7575.4
GR	1071.0	7593.8	1073.4	7599.1	1067.8	7606.4	1045.7	7639.2	1045.8	7723.9
GR	1046.7	7786.6	1047.1	7880.3	1046.2	7932.6	1046.9	8027.0	1045.6	8059.1
GR	1043.4	8078.4	1043.3	8110.4	1045.0	8129.9	1045.6	8147.9	1046.3	8198.8
GR	1048.7	8202.0	1050.6	8206.1	1050.7	8211.6	1045.9	8225.9	1039.9	8407.3
GR	1039.7	8444.0	1064.0	8469.3	1079.1	8486.5	1075.2	8494.9	1075.1	8513.1
GR	1073.1	8530.9	1072.2	8550.0	1073.6	8557.4	1069.6	8575.6	1068.7	8612.5
GR	1069.6	8618.2	1070.1	8668.0	1071.2	8692.6	1069.3	8711.7	1069.8	8724.1
GR	1070.1	8774.1	1071.2	8816.8	1071.8	8827.5	1070.6	8840.6	1071.0	8892.7
GR	1067.9	8915.2	1068.7	8974.1	1068.3	9036.5	1069.0	9224.2	1069.2	9295.1
GR	1068.6	9326.8	1071.1	9516.4	1071.3	9580.9	1070.7	9630.1	1071.2	9704.4
GR	1066.3	9724.2	1064.8	9739.8	1062.3	9829.5	1060.1	9841.8	1062.0	9926.2
GR	1063.6	9974.4	1063.3	9991.5	1062.2	10004.5	1061.7	10086.4	1058.6	10100.5
GR	1058.8	10125.4	1061.1	10175.6	1062.0	10185.6	1063.7	10285.7	1075.0	10318.7

GR POINTS MODIFIED - BOTTOM OF GRAVEL MINE RAISED TO ELIMINATE NON-EFFECTIVE FLOW AREA BETWEEN SECTIONS 13.007 TO 13.296.

ET	13.007	9.1	7.1				9767	10239	8750	10239
X1	13.007	94	9767.1	10186.1	490	495	493.53			
GR	1074.1	6020.7	1073.2	6026.4	1073.0	6105.1	1073.0	6158.5	1073.0	6258.1
GR	1073.0	6339.2	1073.1	6437.1	1073.1	6511.2	1073.1	6737.2	1073.2	6903.6
GR	1073.2	6987.2	1073.2	7099.9	1073.2	7187.3	1072.9	7191.3	1074.4	7200.7
GR	1074.2	7208.7	1073.2	7215.8	1073.3	7237.3	1073.3	7296.1	1073.3	7688.9
GR	1073.3	7749.3	1073.4	7787.4	1073.2	7839.1	1073.1	7890.1	1072.8	7987.4
GR	1072.8	8037.4	1072.8	8087.4	1073.1	8137.4	1073.1	8209.3	1071.8	8231.0
GR	1070.5	8239.8	1070.1	8251.0	1071.6	8263.1	1073.4	8286.0	1075.8	8297.9
GR	1076.9	8306.4	1077.1	8311.4	1074.6	8319.0	1074.8	8367.4	1072.2	8383.8
GR	1072.3	8396.5	1070.5	8428.2	1071.5	8435.7	1072.6	8449.4	1072.5	8452.0
GR	1070.7	8466.3	1071.6	8483.7	1072.0	8503.9	1071.7	8513.9	1072.3	8541.8
GR	1072.5	8577.6	1072.4	8637.5	1073.3	8704.4	1073.5	8727.4	1074.8	8755.7
GR	1074.2	8768.6	1073.1	8779.0	1072.6	8787.6	1071.3	8837.7	1070.1	8849.8
GR	1071.8	8887.6	1073.2	8955.5	1073.6	8987.6	1073.2	9037.6	1071.8	9087.6
GR	1072.2	9094.6	1073.3	9137.6	1072.9	9187.6	1073.3	9210.2	1070.3	9235.2

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GR	1070.4	9287.7	1070.6	9337.7	1070.6	9405.5	1070.9	9487.7	1071.4	9587.7
GR	1071.1	9637.7	1070.9	9688.4	1072.3	9713.5	1072.3	9767.1	1066.3	9792.0
GR	1064.8	9823.9	1064.1	9832.2	1063.4	9836.6	1063.0	9887.8	1062.6	9914.5
GR	1062	9937.8	1062	9987.8	1062	10043.2	1062	10087.8	1062	10137.9
GR	1062	10160.9	1062	10186.1	1076.9	10237.7	1076.7	10239.1		
ET	13.103	9.1	7.1				9830	10342	8600	10342
X1	13.103	92	9830.4	10318.4	505	515	505.18			
GR	1075.1	6491.1	1074.8	6492.6	1074.8	6568.0	1074.7	6578.0	1074.8	6659.3
GR	1074.7	6676.4	1074.8	6862.8	1074.8	6873.0	1074.8	7020.5	1075.0	7118.9
GR	1075.0	7219.0	1075.0	7269.9	1075.0	7320.7	1075.0	7422.5	1075.0	7524.2
GR	1075.0	7659.7	1075.0	7718.1	1075.0	7868.2	1075.0	8033.0	1074.8	8102.2
GR	1075.0	8142.2	1076.0	8148.7	1075.3	8174.5	1074.4	8193.9	1076.4	8199.3
GR	1077.4	8203.8	1076.7	8206.0	1074.5	8210.7	1073.0	8268.2	1073.2	8305.4
GR	1073.0	8321.5	1073.6	8336.7	1074.5	8389.6	1076.3	8427.7	1076.6	8448.8
GR	1074.2	8485.2	1074.3	8518.2	1074.1	8550.6	1074.2	8607.9	1074.0	8618.3
GR	1074.5	8668.3	1074.3	8724.3	1074.3	8727.8	1072.6	8754.0	1072	8768.3
GR	1072	8793.4	1072	8801.7	1072	8812.7	1072	8830.8	1072	8888.9
GR	1072	8938.0	1072	8968.3	1072	9014.3	1072	9032.8	1072	9067.5
GR	1072	9118.5	1072	9186.2	1072	9263.5	1072	9318.4	1072	9368.4
GR	1072	9404.1	1072	9415.8	1072	9443.8	1072	9461.8	1072	9467.8
GR	1072	9502.8	1072	9521.9	1072	9588.9	1072	9630.9	1072	9634.4
GR	1072	9669.8	1072	9679.1	1072	9713.6	1070.1	9751.2	1070.4	9773.0
GR	1071.8	9823.2	1071.6	9830.4	1067.0	9841.8	1067.8	9862.8	1067.1	9867.2
GR	1062.5	9918.5	1062.5	9968.5	1062.5	10018.5	1062.5	10070.8	1062.5	10096.0
GR	1062.5	10118.5	1062.5	10168.5	1062.5	10218.5	1062.5	10254.5	1062.5	10268.5
GR	1070.8	10318.4	1078.3	10342.6						

NC .045 .045 .035



Effective Model Output  
AGUAFRIA.OUT

GR	1066.1	9952.6	1066.2	9992.1	1064.3	10006.5	1064.3	10009.7	1063.9	10064.8
GR	1063.8	10067	1065.2	10097.1	1065.4	10106	1071.5	10126.6	1071.7	10133.8
GR	1071.5	10181.5	1071.6	10191.5	1070.9	10198.2	1070.4	10205.4	1084.5	10252
GR	1084.5	10257.9	1088.7	10276.1	1089.5	10280.3	1089.5	10305.8	1089.1	10337.6
GR	1089.2	10343.3	1089	10371.3	1088.3	10400.7	1088.2	10414.4		
SB	1.05	1.56	2.7	0	1400	99.0	21608.27	3.0	1070	1070
X1	13.467	89	8693.6	10286.7	90	90				
X2	0	0	1	1090.30	1092.80	0		1	0	0
BT	11	8710.0	1092.8	1092.8	8733.0	1093.0	1093.0	8733.1	1098.2	1086.4
BT	9110.0	1101.1	1089.3	9360.0	1102.0	1090.2	9482.0	1102.1	1090.3	9603.8
BT	1102.0	1090.2	9863.0	1101.1	1089.3	10240.5	1098.2	1086.4	10240.6	1093.0
BT	1093.0	10266.0	1092.8	1092.8						
GR	1090.1	6814.7	1089.3	6829.6	1088.5	6862.5	1087.9	6880.3	1086.6	6944.5
GR	1085.6	6980.7	1084.8	7020.5	1083.9	7051	1083.6	7107.9	1082.9	7170.4
GR	1082.9	7221.9	1083.5	7345.9	1083.6	7461.7	1083.4	7619.7	1082.9	7695.5
GR	1082.9	7781.8	1082.6	7838.7	1083.3	7953.6	1084.4	8056.2	1085.1	8153.8
GR	1085.9	8175.2	1085.7	8190.4	1085.8	8226.6	1086.2	8237.2	1087.5	8382
GR	1088	8436	1089.3	8524.4	1090	8586.4	1090.6	8617.3	1090.9	8693.6
GR	1090.7	8714.3	1089.7	8721.2	1089	8723.9	1083.7	8748.6	1075.9	8771.6
GR	1074.3	8844.3	1072.6	8880.1	1072.1	8900.4	1068.8	8915	1067.8	8921.2
GR	1067.7	8960.9	1067	8997.9	1067	9004.9	1068.1	9022.7	1068.6	9039.2
GR	1069.3	9080.3	1069.2	9095.9	1070.5	9122.1	1071	9176.2	1070.8	9207.1
GR	1071.2	9212.7	1071	9260.5	1071.2	9335.2	1071.7	9473.8	1071.7	9501.1
GR	1070.6	9664.3	1070.6	9679.2	1071.3	9719.1	1069.8	9747.5	1069.7	9757.2
GR	1070.5	9801.5	1070.3	9808.3	1070.7	9843.8	1071.4	9884	1070.3	9924.4
GR	1070.1	9949.1	1069.2	9970	1068.2	9979.4	1065.5	9992.8	1065.5	9999.6
GR	1065.1	10002.4	1064.5	10012.7	1064.5	10041.8	1064.1	10056.8	1065.5	10089.1
GR	1066.5	10127.4	1066.7	10153.5	1067.9	10157.6	1068.2	10166.2	1069.2	10180.4
GR	1069.1	10183.6	1082.4	10223.7	1088.6	10246.1	1090.3	10253	1090.6	10286.7
GR	1090.5	10313	1089.4	10369.3	1089.6	10370.6	1090.4	10389.2		

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ET	13.518	9.1	7.1				8740	10214	8560	10214
X1	13.518	93	8800.2	10189.6	260	260	270			
GR	1079.3	6842.0	1079.0	6867.8	1078.7	6871.8	1078.9	6921.8	1080.2	6939.9
GR	1079.9	6974.7	1079.4	6995.2	1080.6	7071.4	1080.6	7122.3	1080.1	7221.0
GR	1080.9	7237.1	1080.0	7244.9	1080.5	7249.5	1080.9	7321.4	1080.6	7373.9
GR	1081.0	7421.4	1080.4	7471.4	1080.7	7521.4	1080.5	7621.4	1080.2	7671.4
GR	1080.1	7721.5	1079.8	7813.1	1079.8	7871.5	1078.5	7918.9	1079.2	7971.5
GR	1081.1	8041.5	1081.4	8070.2	1079.3	8106.1	1079.0	8118.1	1080.2	8134.4
GR	1078.0	8144.8	1080.6	8156.6	1079.4	8171.3	1079.5	8183.3	1076.9	8221.5
GR	1075.9	8286.2	1075.1	8338.5	1074.9	8367.7	1075.7	8381.0	1074.9	8394.8
GR	1074.5	8442.9	1075.3	8465.3	1074.6	8489.8	1073.7	8501.6	1073.8	8523.6
GR	1074.6	8531.6	1083.5	8552.1	1084.5	8557.1	1084.0	8571.3	1076.2	8613.2
GR	1074.7	8617.6	1073.0	8671.5	1072.4	8701.2	1073.1	8771.5	1073.0	8800.2
GR	1069.4	8817.0	1069.0	8884.9	1068.4	8900.1	1070.2	8923.4	1070.7	8934.3
GR	1070.4	8972.9	1071.4	8982.0	1073.0	9021.5	1073.7	9071.6	1073.6	9117.6
GR	1073.1	9129.8	1071.4	9142.4	1071.6	9173.4	1073.8	9185.1	1074.9	9243.9
GR	1075.1	9321.6	1076.1	9371.6	1075.4	9421.6	1075.8	9471.6	1076.1	9539.9
GR	1075.9	9604.1	1075.3	9660.5	1072.8	9680.2	1072.1	9699.2	1073.2	9757.7
GR	1073.1	9821.6	1072.5	9869.2	1071.0	9894.3	1073.2	9917.1	1073.1	9971.6
GR	1072.2	10019.3	1072.2	10039.7	1064.3	10058.8	1064.2	10074.4	1065.2	10086.6
GR	1067.3	10161.7	1067.2	10189.6	1087.8	10214.8				

NC				0.1	0.3		8800	10247.7		
ET	13.565		7.1				252.49			
X1	13.565	94	8886.9	10247.7	245	255	252.49			
GR	1081.3	6845.3	1079.5	6855.5	1080.8	6874.1	1080.7	6968.3	1081.2	7021.5
GR	1080.4	7035.8	1081.1	7068.3	1080.8	7118.3	1081.6	7168.3	1081.3	7218.8
GR	1081.7	7268.4	1081.5	7369.7	1081.2	7419.7	1081.7	7468.3	1081.4	7568.3
GR	1081.3	7673.6	1080.7	7774.0	1080.1	7816.7	1079.7	7817.3	1080.8	7828.8
GR	1080.4	7864.9	1080.5	7886.4	1081.3	7913.3	1080.4	7915.1	1078.3	7926.0
GR	1077.1	7936.5	1076.3	7955.1	1075.1	8015.1	1075.5	8043.1	1078.0	8058.5
GR	1077.3	8080.5	1077.1	8105.2	1074.8	8116.0	1074.7	8128.4	1075.4	8145.8
GR	1077.8	8155.3	1079.1	8199.1	1079.6	8268.4	1079.7	8318.4	1080.3	8330.7
GR	1080.3	8359.3	1079.7	8368.4	1079.3	8461.3	1078.8	8492.0	1075.1	8503.7
GR	1077.7	8521.4	1076.7	8534.8	1079.6	8550.4	1078.5	8560.7	1078.6	8567.5
GR	1077.8	8582.6	1079.5	8621.5	1079.8	8622.5	1075.2	8651.0	1074.3	8655.5
GR	1074.2	8658.2	1074.6	8660.6	1074.4	8663.0	1074.6	8684.0	1073.9	8718.4
GR	1074.6	8787.8	1074.2	8886.9	1069.0	8901.1	1069.7	8959.2	1069.3	8968.9
GR	1072.5	9004.1	1072.5	9034.4	1073.7	9068.4	1075.1	9168.5	1076.4	9318.5
GR	1076.6	9368.5	1076.4	9418.5	1077.1	9518.5	1076.9	9568.5	1075.9	9618.5
GR	1076.0	9668.5	1075.8	9682.7	1075.3	9689.5	1074.3	9726.3	1073.7	9811.9
GR	1073.3	9819.0	1073.3	9901.6	1074.4	9913.0	1074.0	9976.7	1072.9	10013.6
GR	1071.4	10036.8	1070.5	10045.7	1071.5	10065.0	1070.4	10076.4	1068.0	10085.3
GR	1067.4	10113.3	1065.8	10130.9	1067.0	10216.7	1088.9	10247.7		

ET	13.663		7.1				9020	10354		
X1	13.663	94	9227.8	10329.6	505	535	514.87			
GR	1081.6	6801.6	1081.9	6855.8	1081.0	6865.6	1082.0	6885.0	1080.0	6894.8
GR	1080.9	6900.6	1082.6	6907.6	1082.7	7062.8	1082.5	7164.1	1083.3	7214.8
GR	1082.9	7265.4	1083.4	7305.8	1082.2	7376.5	1083.0	7402.2	1082.2	7413.3
GR	1082.4	7455.3	1081.4	7497.4	1077.2	7531.8	1077.4	7599.3	1078.4	7613.2
GR	1076.3	7648.0	1076.2	7656.2	1078.4	7672.5	1078.2	7705.9	1079.7	7766.8
GR	1080.6	7855.9	1080.0	7879.6	1080.7	7905.9	1081.6	8055.9	1081.1	8184.3

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GR	1080.0	8255.9	1080.2	8305.9	1080.9	8381.7	1080.9	8431.0	1081.3	8455.9
GR	1080.7	8555.9	1079.9	8616.7	1081.2	8677.8	1081.4	8706.0	1080.5	8756.0

Effective Model Output  
AGUAFRIA.OUT

GR	1081.3	8794.1	1080.3	8799.3	1079.2	8813.3	1077.1	8828.8	1076.1	8855.9
GR	1075.3	8937.5	1076.1	9038.8	1075.8	9207.0	1075.7	9227.8	1073.4	9245.3
GR	1073.0	9289.3	1071.9	9311.4	1071.9	9352.8	1071.2	9380.1	1075.2	9398.0
GR	1076.7	9401.5	1076.8	9435.8	1078.5	9471.1	1078.7	9540.9	1078.3	9554.9
GR	1076.9	9570.0	1075.4	9615.2	1075.6	9656.0	1075.3	9679.0	1077.2	9694.1
GR	1079.0	9758.1	1079.6	9767.4	1079.8	9789.3	1078.5	9801.8	1078.4	9831.3
GR	1078.8	9850.4	1077.0	9876.6	1076.2	9927.5	1074.6	9939.6	1074.6	10006.1
GR	1073.9	10042.1	1075.1	10057.9	1074.8	10082.9	1077.1	10106.1	1075.5	10136.1
GR	1076.0	10160.6	1076.0	10199.6	1075.2	10210.0	1069.8	10224.4	1068.6	10254.2
GR	1068.3	10274.4	1065.7	10310.7	1074.4	10329.6	1075.1	10341.6	1079.8	10356.5
GR	1088.0	10397.1	1089.9	10503.3	1090.6	10506.9	1092.0	10528.4		

ET	13.760		7.1				9220		10427	
X1	13.760	93	9522.0	10175.0	505	515	511.31			
GR	1083.9	6755.1	1082.8	6795.7	1083.3	6905.1	1082.0	6955.2	1083.3	7006.7
GR	1082.6	7030.9	1079.0	7054.3	1078.6	7085.2	1081.6	7118.2	1082.1	7155.2
GR	1082.5	7216.4	1083.5	7255.2	1082.1	7276.0	1079.3	7306.2	1081.4	7349.8
GR	1083.0	7501.2	1082.7	7512.3	1079.5	7534.3	1081.3	7580.5	1081.6	7596.7
GR	1081.3	7625.5	1078.4	7692.2	1079.9	7724.8	1083.0	7774.0	1083.2	7791.2
GR	1082.4	7834.0	1082.2	7905.3	1083.0	7955.3	1082.7	8005.3	1083.5	8105.3
GR	1083.3	8255.3	1082.9	8375.3	1082.4	8405.3	1083.4	8455.3	1082.4	8505.4
GR	1082.8	8555.4	1082.3	8633.2	1082.4	8654.6	1080.5	8665.1	1082.1	8705.4
GR	1081.8	8765.3	1079.8	8784.8	1082.4	8805.9	1083.7	8863.8	1083.0	8894.7
GR	1080.7	8905.4	1077.8	8930.9	1078.3	8972.2	1078.2	9158.8	1076.9	9203.8
GR	1077.7	9253.3	1078.3	9264.3	1078.1	9305.4	1077.2	9355.5	1077.9	9402.2
GR	1077.5	9474.8	1078.2	9504.9	1077.5	9522.0	1074.8	9544.9	1075.2	9605.5
GR	1074.4	9637.5	1078.6	9655.3	1078.8	9664.4	1077.7	9681.9	1078.7	9758.0
GR	1078.1	9805.5	1077.2	9830.4	1080.6	9846.2	1080.7	9865.6	1079.6	9881.0
GR	1080.6	9904.0	1079.8	9957.4	1080.0	9971.4	1078.5	9985.0	1079.7	10016.9
GR	1078.7	10026.3	1075.8	10041.9	1075.5	10063.3	1076.4	10103.3	1067.9	10120.0
GR	1068.5	10152.3	1068.3	10159.1	1071.2	10175.0	1071.7	10206.8	1074.8	10222.9
GR	1075.8	10255.6	1076.1	10305.6	1075.4	10342.9	1074.3	10355.3	1073.5	10379.3
GR	1073.3	10405.8	1084.0	10436.3	1084.3	10441.1				

ET	13.856	9.1	7.1				9380	10419.9	6800	10448
X1	13.856	92	9608.8	10107.9	505	510	509.71			
GR	1082.6	6532.4	1081.5	6561.6	1081.2	6611.1	1081.6	6663.4	1083.2	6678.4
GR	1085.2	6758.9	1085.1	6866.0	1083.8	6921.9	1080.5	6944.2	1080.6	6966.8
GR	1083.3	6991.8	1083.7	7086.7	1085.7	7114.3	1083.4	7158.3	1083.8	7166.9
GR	1082.1	7197.7	1082.1	7210.5	1083.2	7228.5	1084.0	7259.0	1083.1	7314.5
GR	1084.3	7359.0	1084.5	7427.3	1084.1	7492.6	1082.6	7512.6	1082.6	7537.8
GR	1084.4	7564.2	1083.6	7732.7	1082.9	7834.6	1080.4	7890.3	1082.0	7910.3
GR	1082.6	7946.5	1083.7	8061.5	1085.0	8109.1	1085.3	8209.2	1086.0	8219.6
GR	1084.8	8306.7	1085.3	8359.2	1084.2	8390.7	1085.6	8416.0	1084.8	8521.8
GR	1085.0	8567.0	1084.6	8591.3	1083.2	8604.5	1084.8	8650.0	1085.1	8672.9
GR	1083.3	8695.7	1083.9	8711.8	1083.1	8721.3	1085.3	8758.8	1085.4	8859.3
GR	1084.9	8916.5	1085.1	8960.6	1084.5	8997.3	1080.9	9010.9	1080.6	9017.5
GR	1080.4	9059.3	1080.9	9209.9	1080.5	9259.3	1081.1	9359.3	1080.5	9383.1
GR	1079.0	9399.4	1078.8	9409.4	1080.1	9439.2	1079.3	9551.5	1079.8	9602.8
GR	1078.2	9608.8	1074.7	9634.4	1075.6	9708.0	1075.5	9728.7	1077.3	9764.8
GR	1077.0	9890.5	1074.4	9898.9	1075.3	9914.6	1075.3	9925.6	1076.6	9959.2
GR	1075.7	10010.9	1075.0	10020.5	1071.2	10033.2	1072.5	10059.4	1072.3	10093.4

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GR	1075.7	10107.9	1075.1	10146.4	1077.6	10209.5	1077.2	10244.6	1078.2	10264.9
GR	1078.2	10309.5	1077.7	10352.6	1076.8	10373.2	1079.5	10385.2	1078.2	10399.8
GR	1084.4	10430.9	1087.1	10448.6						

ET	13.952	9.1	7.1				9400	10384	6900	10583
X1	13.952	93	9432.8	10076.3	505	510	507.98			
GR	1090.0	6174.7	1087.4	6221.0	1085.0	6300.2	1084.1	6304.8	1084.5	6323.2
GR	1084.2	6340.3	1086.5	6357.6	1084.2	6376.8	1083.8	6479.7	1084.8	6505.0
GR	1083.1	6515.2	1085.2	6531.5	1084.4	6610.9	1083.8	6618.1	1084.3	6632.0
GR	1082.8	6659.3	1083.0	6675.2	1084.9	6693.0	1085.6	6705.5	1085.9	6770.3
GR	1084.5	6780.2	1086.2	6788.5	1087.5	6971.2	1086.1	7001.4	1083.7	7023.8
GR	1084.8	7071.2	1083.8	7104.2	1085.3	7133.2	1081.0	7159.3	1086.4	7186.0
GR	1086.4	7221.2	1085.4	7302.8	1085.2	7442.2	1086.3	7597.5	1086.3	7696.8
GR	1085.7	7771.3	1085.8	7921.3	1085.1	8071.3	1085.1	8128.3	1083.8	8138.4
GR	1083.8	8155.0	1084.6	8171.4	1084.1	8236.0	1083.7	8328.1	1085.8	8369.0
GR	1087.3	8384.9	1087.2	8432.5	1086.3	8471.4	1085.8	8603.7	1084.8	8622.2
GR	1082.3	8642.8	1085.3	8666.1	1087.3	8688.0	1087.5	8721.5	1086.6	8771.5
GR	1086.5	8800.8	1087.3	8811.2	1086.7	8827.4	1086.7	8921.5	1086.3	8971.5
GR	1087.3	9121.5	1086.6	9135.9	1082.9	9154.2	1082.3	9171.5	1083.0	9321.5
GR	1083.0	9432.8	1077.1	9472.0	1076.6	9506.3	1078.1	9514.2	1077.9	9581.3
GR	1078.4	9631.0	1077.9	9690.8	1081.2	9701.6	1078.6	9717.4	1078.6	9772.8
GR	1080.6	9814.5	1079.6	9914.8	1076.7	9931.7	1075.5	9952.9	1073.3	10019.8
GR	1076.2	10053.7	1081.4	10076.3	1080.8	10144.3	1081.0	10212.5	1080.1	10271.7
GR	1080.2	10320.6	1082.3	10377.6	1085.9	10398.8	1085.6	10456.2	1086.6	10506.3
GR	1086.5	10521.7	1088.3	10562.9	1090.1	10583.1				

ET	14.049	9.1	7.1				9280	10310	7100	10644
X1	14.049	92	9288.0	10114.9	500	505	512.16			
GR	1087.7	6131.0	1087.5	6229.4	1087.7	6285.1	1086.9	6433.4	1086.1	6484.6
GR	1085.3	6629.1	1084.3	6683.4	1083.9	6733.4	1084.5	6760.2	1087.4	6767.5
GR	1091.4	6775.0	1090.8	6780.7	1089.2	6787.1	1087.0	6800.3	1088.0	6933.4
GR	1088.5	7033.4	1088.5	7083.4	1088.9	7183.5	1088.4	7225.5	1086.3	7251.6
GR	1086.2	7283.5	1085.8	7310.9	1083.7	7328.3	1085.0	7358.9	1084.2	7399.3
GR	1085.8	7414.8	1086.3	7533.5	1086.6	7556.6	1086.5	7583.6	1085.6	7633.8
GR	1086.9	7693.7	1087.5	7733.6	1087.2	7833.6	1086.8	7933.6	1087.5	8033.6
GR	1087.1	8067.1	1087.4	8133.7	1086.5	8183.7	1086.6	8233.7	1085.8	8283.7
GR	1085.2	8383.7	1085.4	8433.7	1084.5	8510.5	1085.0	8536.0	1085.8	8551.6
GR	1085.3	8582.3	1086.6	8638.7	1088.0	8653.7	1088.7	8733.8	1088.6	8833.8
GR	1088.9	8933.8	1089.0	8983.8	1088.5	9033.8	1088.6	9087.0	1089.3	9132.6

Effective Model Output  
AGUAFRIA.OUT

GR	1088.0	9165.0	1089.0	9186.4	1088.9	9228.7	1085.1	9255.2	1084.7	9288.0
GR	1081.6	9308.5	1081.9	9333.9	1079.4	9372.9	1079.7	9396.9	1078.5	9502.3
GR	1078.5	9536.1	1082.2	9549.5	1082.4	9598.5	1081.9	9649.6	1082.6	9700.6
GR	1082.6	9734.0	1083.4	9784.0	1083.5	9834.0	1083.0	9884.0	1079.7	9961.8
GR	1076.3	9967.9	1076.7	10006.3	1078.9	10019.3	1077.1	10045.6	1074.5	10063.0
GR	1075.0	10078.7	1083.2	10114.9	1083.5	10134.1	1083.2	10184.1	1082.4	10211.1
GR	1081.8	10275.0	1081.3	10290.9	1087.9	10319.5	1087.2	10384.1	1087.7	10484.1
GR	1088.0	10619.5	1088.3	10644.9						

ET	14.145	9.1	7.1				9160	10350	7300	10478
X1	14.145	95	9170.0	10280.2	500	500	509.68			
GR	1095.1	5963.3	1089.8	5977.7	1089.0	6009.9	1088.1	6109.9	1088.5	6159.9
GR	1088.5	6241.8	1086.9	6253.2	1089.0	6283.1	1088.7	6312.4	1088.0	6319.5
GR	1089.0	6329.0	1088.6	6360.0	1088.4	6560.0	1088.3	6660.0	1086.8	6753.3
GR	1085.0	6764.0	1087.3	6774.8	1086.9	6852.1	1085.2	6860.3	1086.7	6884.9

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GR	1087.7	6910.1	1089.3	7026.3	1089.3	7110.1	1089.9	7160.1	1089.9	7310.2
GR	1089.5	7383.7	1089.8	7434.7	1088.8	7560.2	1088.4	7571.5	1088.7	7584.1
GR	1087.5	7610.1	1087.4	7686.5	1087.1	7705.2	1085.7	7735.2	1086.6	7809.0
GR	1086.2	7863.1	1085.8	7876.4	1087.0	7914.8	1086.8	7928.0	1088.3	7957.2
GR	1089.0	8110.3	1088.7	8260.4	1088.0	8318.0	1088.9	8410.4	1088.1	8460.4
GR	1086.5	8514.0	1086.6	8608.8	1085.9	8655.2	1085.5	8718.9	1085.0	8728.8
GR	1088.2	8757.9	1087.9	8760.5	1088.1	8810.5	1087.4	8856.9	1089.3	8877.8
GR	1089.0	8960.5	1090.5	8996.1	1090.5	9032.4	1089.9	9066.8	1091.0	9110.5
GR	1090.5	9160.5	1090.7	9170.0	1079.8	9204.5	1080.0	9229.8	1080.8	9272.9
GR	1080.5	9351.7	1083.3	9374.8	1083.5	9430.9	1083.0	9475.1	1081.7	9495.1
GR	1081.8	9560.6	1080.8	9601.3	1080.8	9615.5	1083.5	9623.2	1084.5	9782.7
GR	1083.8	9935.8	1083.1	10060.7	1082.2	10092.9	1077.1	10121.3	1076.9	10132.4
GR	1078.9	10151.1	1080.3	10218.9	1078.7	10241.9	1081.3	10252.9	1082.5	10265.9
GR	1085.0	10280.2	1085.3	10310.8	1084.7	10341.7	1083.7	10360.5	1084.1	10412.8
GR	1084.6	10417.6	1088.8	10437.3	1087.6	10454.1	1088.9	10466.2	1088.8	10478.0

ET	14.240	9.1	7.1				9120	10400	7500	10710
X1	14.240	93	9130.0	10391.2	365	550	500.12			
GR	1092.8	6127.2	1090.1	6144.1	1089.3	6169.4	1088.8	6234.5	1089.6	6389.3
GR	1088.3	6396.6	1089.7	6405.2	1089.6	6415.6	1091.7	6423.1	1091.5	6435.7
GR	1089.9	6442.3	1089.6	6478.8	1087.3	6494.9	1089.9	6513.1	1089.7	6653.1
GR	1089.2	6675.8	1089.5	6693.5	1087.9	6775.7	1088.9	6841.5	1088.5	6855.9
GR	1087.4	6863.1	1087.5	6870.8	1088.3	6871.4	1088.2	6916.6	1091.2	6967.8
GR	1092.0	6972.7	1091.7	6981.8	1089.2	6997.6	1088.1	7022.7	1089.1	7042.8
GR	1088.7	7119.7	1089.9	7219.7	1090.2	7328.8	1091.2	7429.8	1090.8	7478.8
GR	1090.7	7719.8	1090.0	7894.3	1089.3	7907.0	1089.6	7919.9	1088.0	7938.7
GR	1086.7	7947.9	1086.5	7978.8	1088.3	8021.6	1086.5	8035.5	1087.3	8069.9
GR	1086.6	8124.1	1090.6	8319.9	1089.2	8419.9	1090.0	8470.0	1089.5	8546.1
GR	1088.9	8670.0	1087.9	8810.7	1086.8	8856.0	1088.3	8877.5	1085.5	8913.3
GR	1088.9	8936.4	1090.4	9101.6	1089.9	9130.0	1081.4	9155.4	1081.6	9201.5
GR	1082.7	9221.9	1082.1	9267.4	1085.3	9278.1	1086.4	9483.4	1085.2	9526.6
GR	1086.5	9548.2	1086.1	9626.2	1086.0	9727.2	1085.6	9754.8	1083.5	9767.6
GR	1082.6	9836.8	1084.5	9851.1	1085.0	10018.6	1083.8	10049.3	1085.0	10082.2
GR	1083.9	10181.6	1082.1	10217.5	1080.3	10243.1	1081.5	10310.9	1080.8	10369.5
GR	1087.5	10391.2	1086.6	10417.7	1085.4	10430.8	1087.0	10446.3	1086.3	10475.0
GR	1087.5	10498.8	1084.2	10515.0	1085.4	10535.1	1084.1	10627.2	1086.0	10636.9
GR	1084.4	10652.8	1086.0	10688.2	1091.4	10710.5				

ET	14.335	9.1	7.1				9110	10460	7700	10875
X1	14.335	92	9119.2	10358.0	400	530	498.73			
GR	1096.5	6405.1	1096.6	6414.4	1093.8	6426.0	1091.0	6645.7	1090.6	6668.9
GR	1090.8	6808.8	1089.7	6821.8	1090.9	6832.8	1091.3	7069.0	1091.7	7119.0
GR	1091.4	7169.2	1090.4	7182.9	1091.9	7193.0	1090.6	7369.1	1091.6	7519.1
GR	1092.4	7569.1	1091.9	7672.5	1092.8	7719.2	1092.0	7819.2	1092.2	7969.2
GR	1091.5	7997.9	1089.7	8026.8	1091.4	8072.1	1091.4	8119.2	1090.4	8169.2
GR	1088.8	8205.4	1087.1	8218.0	1087.4	8269.3	1086.5	8295.2	1088.3	8313.6
GR	1088.1	8331.3	1087.4	8348.0	1090.0	8368.3	1091.2	8428.6	1091.0	8469.3
GR	1091.4	8519.3	1091.3	8719.4	1091.2	8819.4	1090.6	8869.4	1089.0	8890.0
GR	1090.5	8919.4	1088.3	8969.4	1087.7	9015.7	1091.2	9093.7	1089.5	9119.2
GR	1084.7	9140.5	1083.8	9173.5	1083.6	9207.8	1083.0	9224.7	1083.1	9266.1
GR	1086.4	9283.0	1087.4	9378.1	1087.1	9422.3	1085.1	9431.4	1087.3	9480.4
GR	1086.8	9583.0	1088.0	9642.1	1088.2	9736.2	1087.1	9787.3	1087.8	9838.7
GR	1087.3	9940.8	1085.9	9985.5	1086.0	10021.4	1083.0	10027.3	1083.3	10044.8
GR	1085.3	10070.2	1084.8	10094.2	1086.1	10196.5	1085.0	10245.6	1080.4	10271.0

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GR	1079.8	10300.6	1082.2	10309.3	1081.8	10328.5	1086.9	10352.2	1088.4	10358.0
GR	1088.5	10401.1	1089.0	10428.1	1088.2	10467.3	1089.0	10503.4	1088.8	10578.2
GR	1085.4	10601.4	1085.7	10603.4	1085.5	10616.0	1085.9	10656.8	1087.1	10708.0
GR	1087.0	10758.8	1088.4	10777.4	1089.2	10811.8	1090.4	10816.5	1087.3	10837.4
GR	1087.4	10868.0	1089.9	10875.5						

ET	14.430	9.1	7.1				9160	10520	7800	10984
X1	14.430	95	9171.4	10301.1	410	540	502.88			
GR	1093.1	6835.1	1092.2	6860.3	1091.7	6910.4	1092.2	6957.4	1091.9	7059.0
GR	1092.3	7116.1	1092.3	7152.4	1090.9	7160.9	1090.8	7169.2	1092.8	7174.9
GR	1092.5	7260.4	1093.8	7374.4	1092.6	7386.9	1093.8	7410.4	1093.5	7460.4
GR	1093.9	7560.4	1093.3	7610.4	1093.7	7668.1	1093.0	7731.7	1093.5	7769.7
GR	1094.7	7824.0	1093.7	7871.2	1093.1	7953.2	1093.2	7972.8	1092.9	8030.2
GR	1092.3	8062.0	1092.5	8076.9	1090.8	8088.0	1089.8	8098.1	1091.5	8116.9
GR	1092.0	8194.9	1091.5	8233.1	1092.1	8266.0	1092.1	8279.7	1088.9	8296.7
GR	1087.9	8349.4	1088.0	8356.7	1090.6	8393.8	1090.6	8428.0	1092.7	8449.0
GR	1092.3	8510.5	1091.7	8551.5	1089.9	8570.9	1091.7	8660.6	1092.0	8710.6
GR	1091.9	8760.6	1091.0	8810.6	1090.8	8860.6	1089.9	8937.3	1089.9	8990.6

Effective Model Output  
AGUAFRIA.OUT

GR	1089.4	9009.0	1089.1	9040.5	1090.1	9061.5	1091.7	9112.8	1092.1	9171.4
GR	1089.0	9184.9	1085.7	9213.3	1086.2	9236.5	1083.2	9251.1	1083.8	9327.2
GR	1086.3	9348.5	1085.7	9383.3	1087.2	9425.3	1088.3	9477.5	1088.7	9561.3
GR	1088.5	9633.6	1088.1	9691.5	1088.6	9737.7	1088.8	9773.2	1089.2	9789.8
GR	1089.6	9843.8	1089.5	9884.1	1088.4	9985.5	1084.9	10126.0	1084.5	10166.4
GR	1084.4	10207.6	1084.1	10261.8	1090.1	10301.1	1091.0	10347.0	1088.8	10352.7
GR	1090.6	10361.5	1090.4	10414.8	1090.5	10466.9	1090.0	10556.3	1089.5	10568.8
GR	1086.2	10593.2	1087.8	10622.9	1088.1	10675.2	1088.9	10720.5	1087.9	10808.1
GR	1090.5	10831.2	1091.5	10847.9	1092.2	10912.7	1093.2	10940.6	1093.8	10984.2
ET	14.525	9.1	7.1				9230	10600	7800	10815.3
X1	14.525	94	9232.1	10233.0	425	545	504.32			
GR	1096.8	7234.2	1095.6	7243.6	1095.6	7245.7	1095.1	7248.3	1093.9	7250.5
GR	1094.0	7255.8	1092.1	7338.6	1093.4	7385.4	1093.7	7436.4	1089.0	7503.6
GR	1091.8	7558.0	1092.5	7562.7	1092.8	7577.9	1094.1	7597.1	1094.6	7831.0
GR	1095.3	7931.0	1094.2	8034.5	1092.8	8078.6	1094.2	8119.5	1093.8	8153.9
GR	1093.0	8164.2	1094.4	8185.6	1094.5	8196.9	1093.0	8288.2	1094.1	8300.2
GR	1093.1	8327.7	1090.3	8342.9	1090.0	8381.8	1090.2	8418.4	1093.0	8465.0
GR	1092.4	8480.5	1093.0	8517.4	1092.0	8531.3	1093.8	8555.6	1093.8	8702.0
GR	1093.6	8736.6	1093.8	8766.7	1093.4	8777.2	1092.6	8786.4	1092.8	8838.3
GR	1091.5	8854.5	1091.8	8881.4	1090.7	8891.3	1090.6	8924.5	1091.3	8949.3
GR	1091.2	8981.0	1092.4	9081.0	1092.6	9131.5	1093.6	9183.1	1093.9	9232.1
GR	1089.7	9255.4	1087.5	9333.2	1088.5	9346.7	1089.3	9349.3	1088.8	9404.6
GR	1089.7	9431.4	1089.4	9505.9	1088.5	9590.1	1087.3	9596.1	1086.1	9621.0
GR	1084.7	9662.0	1088.2	9685.2	1089.4	9846.8	1089.3	9885.5	1087.9	9984.5
GR	1084.0	10000.7	1083.5	10040.7	1083.9	10046.2	1085.1	10076.8	1083.2	10093.8
GR	1085.8	10120.9	1085.4	10150.6	1085.9	10158.0	1086.3	10177.4	1086.1	10196.1
GR	1092.3	10233.0	1091.5	10254.5	1091.1	10301.0	1095.3	10340.0	1095.3	10352.5
GR	1094.5	10376.0	1089.8	10399.1	1086.6	10465.1	1087.6	10468.2	1086.8	10490.2
GR	1087.2	10583.4	1086.2	10636.8	1088.8	10661.4	1089.4	10670.2	1090.3	10717.7
GR	1093.7	10778.0	1096.5	10797.1	1097.2	10804.3	1097.2	10815.3		

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ET	14.619	9.1	7.1				9305	10785	8100	10802.2
X1	14.619	92	9305.5	10198.4	410	540	494.31			
GR	1096.1	7381.0	1090.4	7395.9	1089.5	7402.9	1087.9	7454.5	1093.6	7478.2
GR	1095.7	7488.3	1096.8	7496.9	1095.3	7511.9	1093.7	7522.3	1092.9	7539.2
GR	1092.9	7580.7	1092.3	7595.9	1092.8	7611.0	1092.5	7643.7	1095.2	7663.3
GR	1095.3	7694.8	1095.6	7695.5	1094.1	7713.0	1094.5	7787.9	1093.8	7798.6
GR	1095.3	7816.1	1095.6	7864.0	1092.5	7883.4	1095.6	7892.3	1094.9	7996.8
GR	1095.4	8044.8	1095.1	8194.8	1095.7	8283.3	1094.7	8297.5	1094.3	8314.5
GR	1095.4	8400.7	1094.3	8437.5	1093.2	8448.1	1094.2	8503.0	1091.7	8514.9
GR	1093.5	8526.5	1092.6	8534.2	1092.7	8594.8	1092.4	8624.7	1094.9	8641.2
GR	1095.1	8689.8	1094.3	8729.7	1095.9	8844.8	1095.9	8895.4	1095.3	8916.0
GR	1091.4	8957.3	1091.5	8976.9	1093.0	9000.9	1091.4	9033.7	1092.5	9047.1
GR	1091.7	9076.2	1091.5	9104.0	1093.1	9144.8	1095.2	9305.5	1091.3	9327.3
GR	1090.7	9392.3	1090.1	9619.3	1090.3	9696.9	1089.2	9746.7	1087.4	9776.0
GR	1087.8	9808.3	1087.3	9833.0	1089.8	9864.0	1089.8	9919.7	1088.8	9955.2
GR	1086.8	9967.5	1086.3	9992.2	1087.0	10001.3	1088.1	10031.1	1088.9	10087.0
GR	1088.3	10118.0	1087.7	10125.9	1087.5	10177.5	1092.1	10198.4	1092.6	10203.6
GR	1091.1	10222.2	1093.3	10241.7	1092.3	10258.7	1093.9	10273.4	1093.3	10381.2
GR	1092.1	10421.0	1092.4	10456.0	1091.8	10506.6	1092.5	10536.1	1093.9	10565.8
GR	1094.3	10588.1	1092.7	10643.2	1090.0	10708.5	1088.4	10737.8	1088.1	10755.0
GR	1092.3	10775.3	1096.3	10802.2						

ET	14.708	9.1	7.1				9410	11140	8350	11257.9
X1	14.708	92	9428.4	10186.7	425	500	470.75			
GR	1103.9	8036.0	1095.2	8049.8	1095.6	8117.2	1096.3	8139.9	1095.7	8172.4
GR	1096.7	8228.8	1094.7	8242.0	1095.0	8272.9	1096.5	8285.2	1097.0	8422.3
GR	1096.3	8492.6	1095.4	8519.0	1096.1	8522.0	1094.3	8533.4	1092.7	8541.1
GR	1092.7	8568.6	1093.4	8590.6	1094.0	8625.2	1093.2	8660.6	1093.1	8722.3
GR	1092.8	8753.9	1091.2	8779.9	1092.9	8796.2	1095.6	8815.0	1095.4	8872.3
GR	1094.3	8972.3	1094.0	9035.9	1094.3	9122.3	1093.8	9223.4	1093.4	9249.4
GR	1096.2	9296.7	1097.1	9307.5	1096.2	9337.0	1095.8	9394.5	1095.1	9428.4
GR	1092.0	9452.1	1093.2	9468.6	1092.1	9566.9	1092.0	9615.2	1091.3	9633.0
GR	1090.5	9681.8	1089.9	9782.6	1089.7	9796.8	1089.2	9802.6	1088.8	9813.4
GR	1089.8	9861.5	1090.2	9919.6	1089.4	10002.7	1089.7	10034.5	1089.4	10057.4
GR	1088.4	10082.1	1089.8	10101.4	1089.7	10149.5	1092.6	10186.7	1094.0	10222.8
GR	1094.3	10261.0	1095.9	10287.2	1095.5	10325.7	1094.2	10343.9	1095.2	10365.6
GR	1095.0	10378.4	1093.8	10393.4	1094.3	10400.2	1094.1	10441.0	1093.4	10459.3
GR	1094.5	10503.2	1094.4	10643.5	1094.7	10693.4	1095.1	10705.5	1095.0	10715.9
GR	1095.6	10752.5	1094.1	10779.6	1094.6	10795.2	1094.5	10841.3	1093.6	10860.1
GR	1093.8	10869.7	1093.5	10887.4	1093.8	10902.7	1093.8	10928.2	1094.3	10946.4
GR	1094.3	10975.6	1093.4	11005.3	1093.8	11020.8	1093.8	11068.6	1094.7	11094.9
GR	1094.6	11106.3	1093.5	11120.3	1097.0	11166.8	1096.1	11177.0	1096.6	11213.0
GR	1102.4	11242.2	1102.2	11257.9						

CONFLUENCE WITH LOWER EL MIRAGE WASH TRIBUTARY

ET	14.809	9.1	7.1				9455	10235	8474	10252.8
X1	14.809	92	9536.7	10195.8	510	540	530.81			
GR	1107.8	8473.6	1099.5	8511.7	1098.9	8543.9	1097.1	8562.5	1095.9	8639.3
GR	1097.9	8666.5	1097.8	8669.6	1094.7	8679.3	1094.5	8727.9	1094.7	8736.6
GR	1095.5	8745.5	1096.0	8827.2	1097.1	8869.6	1096.1	8916.6	1096.8	8969.6
GR	1097.1	9069.6	1097.1	9179.4	1097.0	9229.7	1096.4	9306.2	1096.7	9403.0
GR	1096.2	9435.8	1095.0	9450.4	1096.3	9491.5	1095.9	9536.7	1093.9	9548.6
GR	1093.6	9569.1	1091.6	9598.8	1093.0	9617.1	1091.8	9651.0	1091.1	9733.9

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GR	1091.4	9775.3	1092.6	9787.6	1092.2	9792.2	1091.4	9860.6	1087.1	9878.1
GR	1087.3	9909.0	1089.5	10031.8	1091.1	10059.0	1090.8	10085.7	1091.1	10096.4

Effective Model Output  
AGUAFRIA.OUT

GR	1087.3	10106.9	1087.7	10128.6	1088.1	10129.3	1089.1	10143.7	1095.2	10195.8
GR	1096.8	10234.3	1097.4	10236.9	1097.3	10238.6	1099.0	10252.8	1098.0	10259.2
GR	1098.4	10264.4	1098.2	10275.0	1097.7	10279.4	1098.3	10328.7	1098.1	10376.1
GR	1097.3	10454.3	1098.0	10561.8	1096.5	10719.7	1096.4	10767.1	1097.6	10894.4
GR	1095.7	10912.2	1094.0	10923.3	1093.2	10934.8	1092.4	10965.5	1092.9	11008.3
GR	1093.6	11026.2	1096.8	11053.8	1096.8	11073.2	1097.9	11087.4	1096.9	11119.8
GR	1097.7	11151.4	1102.0	11173.5	1101.0	11203.4	1095.6	11229.8	1094.9	11279.5
GR	1095.7	11315.3	1093.6	11361.3	1093.4	11377.5	1095.1	11421.8	1092.7	11430.2
GR	1092.7	11500.9	1095.4	11524.6	1095.0	11539.4	1095.3	11607.8	1095.8	11612.3
GR	1097.0	11633.9	1096.6	11645.6	1096.9	11662.1	1098.1	11673.3	1099.3	11678.3
GR	1100.2	11702.2	1100.6	11723.2						

ET	14.905	9.1	7.1				9330	10160	8974.3	10303
X1	14.905	95	9392.3	10079.9	500	510	508.67			
GR	1103.6	8974.3	1096.9	8989.1	1095.6	9018.0	1094.7	9068.2	1094.9	9118.0
GR	1097.3	9149.3	1097.5	9218.0	1096.5	9268.0	1095.6	9354.9	1094.8	9379.8
GR	1095.0	9392.3	1092.6	9417.6	1094.5	9446.4	1094.8	9482.2	1094.0	9505.7
GR	1092.4	9532.5	1093.8	9589.4	1091.4	9646.8	1091.8	9669.3	1090.7	9697.2
GR	1090.9	9721.2	1090.3	9751.7	1091.9	9785.7	1091.8	9820.9	1090.6	9850.7
GR	1091.8	9862.5	1091.2	9887.2	1088.6	9903.9	1089.1	9954.5	1089.5	9992.3
GR	1091.7	10006.8	1092.7	10054.0	1092.8	10079.9	1091.3	10149.4	1090.9	10196.9
GR	1092.7	10249.2	1092.4	10252.7	1094.3	10282.4	1099.7	10302.9	1098.8	10373.3
GR	1099.2	10396.5	1098.8	10469.6	1100.3	10478.2	1099.1	10652.5	1100.0	10755.7
GR	1099.4	10807.2	1100.0	10858.6	1098.2	10960.5	1099.4	11037.9	1100.4	11048.3
GR	1099.5	11058.9	1099.5	11118.8	1099.9	11167.3	1099.9	11218.8	1098.4	11286.9
GR	1099.3	11313.8	1098.9	11315.6	1099.5	11318.6	1100.0	11325.2	1098.7	11372.2
GR	1096.6	11384.4	1095.8	11443.0	1098.4	11534.6	1097.0	11578.2	1097.0	11620.7
GR	1098.0	11641.1	1095.9	11725.4	1100.0	11752.2	1099.5	11763.6	1098.1	11772.1
GR	1098.6	11783.8	1096.4	11815.3	1095.6	11835.9	1095.5	11866.5	1095.0	11887.6
GR	1095.3	11924.7	1095.9	11939.0	1099.1	11969.7	1104.4	11994.5	1101.9	12016.1
GR	1101.8	12037.2	1102.9	12079.5	1101.0	12093.6	1101.7	12129.0	1102.5	12140.8
GR	1102.7	12247.4	1103.5	12279.8	1103.8	12313.9	1102.5	12327.5	1104.1	12448.9
GR	1104.8	12474.6	1100.8	12519.9	1100.8	12554.0	1104.4	12608.8	1104.0	12655.5

ET	15.000	9.1	7.1				9290	10130	9175.6	10600
X1	15.000	93	9346.3	10081.6	500	495	500.84			
GR	1104.8	9175.6	1096.6	9188.0	1095.7	9234.8	1098.2	9245.7	1098.1	9269.8
GR	1098.5	9309.1	1098.0	9346.3	1094.9	9360.3	1093.9	9370.2	1092.0	9405.3
GR	1093.4	9484.6	1095.2	9558.7	1095.7	9601.6	1095.6	9621.8	1096.0	9660.1
GR	1094.7	9835.6	1093.9	9875.1	1091.8	9911.5	1091.4	9946.6	1092.3	9974.0
GR	1090.7	9998.3	1088.8	10005.6	1089.2	10038.0	1089.1	10059.8	1097.0	10081.6
GR	1096.3	10186.6	1095.3	10240.5	1094.7	10362.1	1093.4	10456.6	1093.5	10476.4
GR	1094.0	10495.3	1100.0	10526.1	1100.6	10561.4	1101.1	10679.6	1101.4	10895.6
GR	1101.2	10958.4	1101.8	11017.3	1101.4	11192.8	1101.3	11274.2	1100.7	11355.6
GR	1099.3	11392.9	1098.1	11400.2	1096.6	11440.5	1096.5	11410.1	1097.8	11419.6
GR	1098.0	11427.6	1099.3	11434.3	1100.2	11446.3	1100.3	11453.6	1100.0	11457.0
GR	1100.2	11466.1	1097.6	11479.7	1097.3	11498.8	1099.1	11540.6	1099.9	11574.4
GR	1099.9	11593.7	1101.2	11685.2	1101.1	11736.6	1101.7	11756.7	1101.5	11782.1
GR	1102.6	11787.3	1102.1	11802.9	1100.2	11815.5	1100.5	11836.4	1098.5	11890.8
GR	1098.1	11942.1	1096.6	11993.5	1098.5	12029.4	1099.0	12044.9	1099.3	12096.3
GR	1100.7	12125.7	1102.8	12147.6	1103.6	12163.7	1103.8	12179.4	1101.5	12212.6
GR	1100.5	12250.4	1102.4	12357.6	1102.9	12367.0	1102.9	12400.4	1104.8	12422.9

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GR	1104.1	12475.6	1103.5	12492.4	1103.6	12504.2	1104.5	12515.0	1105.2	12558.7
GR	1104.4	12624.8	1102.9	12637.3	1102.6	12663.8	1104.8	12712.9	1104.1	12745.6
GR	1104.2	12758.9	1103.7	12782.7	1104.1	12821.1				

ET	15.094	9.1	7.1				9330	10190	9293.4	11152.4
X1	15.094	93	9336.0	10125.1	495	495	496.49			
GR	1102.3	9230.9	1100.7	9234.4	1099.6	9253.3	1099.4	9273.1	1101.4	9293.4
GR	1098.7	9317.6	1099.1	9336.0	1093.7	9355.8	1092.1	9366.0	1093.0	9426.0
GR	1097.1	9590.7	1099.4	9609.4	1099.0	9653.4	1096.8	9670.4	1096.3	9694.4
GR	1096.0	9881.3	1095.6	9930.6	1093.7	9945.8	1094.7	9959.7	1091.2	9976.5
GR	1091.8	10019.8	1091.3	10056.5	1090.0	10076.6	1089.9	10097.2	1093.0	10112.9
GR	1094.7	10125.1	1095.1	10135.1	1094.8	10150.0	1096.1	10160.0	1096.9	10171.4
GR	1096.6	10189.8	1097.4	10207.6	1096.2	10234.1	1097.3	10263.0	1097.4	10348.5
GR	1097.8	10420.4	1096.0	10524.2	1096.2	10548.3	1099.1	10566.9	1098.0	10582.9
GR	1096.7	10640.5	1096.6	10663.0	1099.1	10693.7	1098.7	10706.9	1099.1	10769.4
GR	1100.1	10779.4	1100.1	10782.7	1098.1	10796.7	1097.2	10800.0	1096.8	10811.3
GR	1095.5	10828.1	1099.2	10841.3	1099.7	10841.7	1098.3	10856.1	1097.2	10861.7
GR	1096.4	10911.4	1097.7	10930.8	1100.9	10959.2	1100.7	10987.0	1102.5	11002.3
GR	1102.3	11152.4	1101.1	11308.7	1100.6	11317.7	1099.8	11395.4	1100.0	11416.9
GR	1098.4	11464.5	1099.1	11568.4	1102.2	11721.5	1103.2	11770.3	1102.9	11927.4
GR	1102.6	12022.7	1102.6	12073.5	1099.0	12224.6	1098.4	12273.7	1099.4	12426.5
GR	1100.1	12527.4	1100.9	12565.4	1103.1	12583.4	1103.4	12600.3	1102.8	12615.4
GR	1104.7	12634.5	1103.3	12708.4	1104.2	12732.9	1104.9	12768.7	1103.0	12777.2
GR	1102.2	12792.8	1103.9	12819.1	1100.5	12842.5	1100.6	12850.8	1098.7	12868.4
GR	1098.7	13008.3	1100.2	13018.1	1102.3	13066.3				

ENCROACHED DUE TO NON-EFFECTIVE FLOW 4:1 DOWNSTREAM OF LANDFILL,  
SECTION 15.188 TO 15.719.

ET	15.188	9.1	7.1				9485	10280	9360.1	11050
X1	15.188	93	9504.7	10076.1	550	435	495.48			
GR	1106.4	9360.1	1103.4	9378.8	1102.5	9452.7	1101.6	9475.6	1102.2	9494.0
GR	1097.3	9504.7	1094.3	9579.5	1094.8	9593.8	1095.3	9643.1	1094.3	9694.4
GR	1097.4	9851.0	1096.8	9910.1	1097.2	9923.3	1094.9	9974.6	1089.0	9999.8
GR	1089.0	10036.2	1089.7	10045.4	1100.4	10076.1	1100.9	10093.4	1100.8	10134.4
GR	1098.4	10315.5	1097.5	10342.4	1098.4	10371.5	1097.5	10423.9	1099.1	10519.9
GR	1099.8	10539.6	1100.5	10631.5	1101.5	10643.5	1102.1	10655.6	1102.2	10711.3
GR	1102.8	10719.2	1101.8	10730.9	1100.3	10887.2	1098.9	10994.1	1099.1	11029.8
GR	1100.0	11074.5	1097.5	11098.2	1097.1	11119.5	1100.9	11144.2	1100.7	11160.3
GR	1099.5	11182.2	1098.9	11210.8	1103.4	11245.7	1103.4	11261.5	1103.0	11267.1

Effective Model Output  
AGUAFRIA.OUT

GR	1103.6	11272.4	1102.8	11387.4	1102.1	11433.8	1100.4	11499.1	1102.0	11533.1
GR	1099.8	11633.7	1099.5	11683.9	1099.1	11697.0	1101.2	11756.0	1101.8	11784.2
GR	1101.8	11830.5	1102.2	11834.4	1101.8	11838.1	1101.8	11880.7	1102.9	11904.7
GR	1104.4	12085.2	1104.1	12235.7	1104.6	12304.0	1104.3	12339.8	1103.1	12355.1
GR	1101.7	12382.3	1103.0	12398.6	1103.2	12442.1	1103.9	12460.1	1103.4	12469.0
GR	1103.5	12476.2	1105.2	12496.6	1100.0	12536.7	1099.1	12575.4	1097.3	12579.2
GR	1097.3	12724.2	1107.4	12778.9	1107.3	12813.8	1105.1	12823.1	1104.6	12830.8
GR	1105.2	12882.9	1104.0	12909.6	1105.1	12933.1	1105.5	12973.0	1103.8	12985.7
GR	1103.7	12998.7	1104.7	13019.4	1098.7	13046.9	1098.7	13140.6	1100.6	13162.4
GR	1100.8	13195.0	1101.7	13239.1	1104.6	13310.8				

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ET	15.281	9.1	7.1				9660	10370	9602.8	10950
X1	15.281	94	9742.9	10078.0	560	425	491.34			
GR	1110.2	9602.8	1107.8	9607.8	1108.8	9619.3	1108.1	9621.5	1108.6	9634.1
GR	1109.2	9640.4	1099.4	9664.0	1098.3	9688.6	1098.1	9742.9	1095.4	9851.4
GR	1095.2	9929.7	1095.6	9934.3	1094.9	9941.2	1093.9	9973.5	1092.6	10001.2
GR	1094.5	10015.4	1094.4	10060.9	1101.4	10078.0	1101.3	10171.7	1100.1	10231.0
GR	1099.4	10294.8	1100.0	10419.7	1098.8	10453.1	1099.9	10477.8	1100.4	10502.1
GR	1100.3	10602.6	1102.9	10622.4	1101.5	10632.0	1102.1	10643.8	1100.2	10651.0
GR	1099.8	10661.9	1099.4	10717.0	1100.7	10881.8	1101.1	10945.5	1100.6	10956.1
GR	1101.5	10963.7	1100.2	11043.0	1101.4	11089.7	1100.2	11141.3	1100.2	11252.7
GR	1098.7	11279.3	1100.2	11298.5	1097.7	11313.7	1100.5	11338.0	1100.8	11392.1
GR	1100.5	11406.1	1101.1	11424.6	1100.1	11445.0	1103.6	11458.9	1104.3	11488.9
GR	1104.7	11493.7	1101.8	11503.9	1101.8	11590.6	1103.1	11601.7	1102.4	11743.3
GR	1103.3	11769.1	1103.1	11793.0	1106.9	11943.3	1104.6	12108.7	1105.4	12184.0
GR	1105.9	12345.2	1105.8	12513.6	1103.4	12525.4	1106.5	12545.8	1107.2	12568.9
GR	1108.9	12584.8	1108.1	12597.6	1108.9	12619.9	1110.2	12631.5	1105.2	12664.4
GR	1102.9	12689.8	1103.3	12694.8	1103.4	12741.6	1100.7	12753.6	1097.3	12759.0
GR	1096.9	12921.1	1098.7	12934.5	1101.0	12968.6	1102.7	13003.6	1104.6	13024.0
GR	1107.5	13045.2	1105.7	13082.9	1105.3	13086.1	1105.4	13094.4	1105.8	13096.5
GR	1107.1	13146.1	1106.8	13231.8	1105.8	13246.5	1106.9	13296.4	1107.1	13348.3
GR	1105.7	13365.0	1105.7	13381.0	1106.6	13411.0	1105.3	13422.9		

NC	.040	.045	.035				9832	10390	9822	10770
ET	15.374	9.1	7.1				491.44			
X1	15.374	92	9832.4	10085.5	540	400	491.44			
GR	1109.9	9821.4	1108.7	9824.0	1101.3	9832.4	1101.3	9833.3	1099.8	9834.5
GR	1095.1	9843.1	1095.6	9879.3	1094.8	9894.1	1094.0	9928.3	1093.8	10008.7
GR	1096.2	10025.3	1098.6	10044.5	1101.9	10085.5	1103.7	10130.8	1100.9	10141.2
GR	1101.2	10190.2	1101.1	10222.8	1100.0	10232.8	1100.4	10239.1	1100.6	10263.2
GR	1101.1	10270.2	1102.0	10295.0	1101.4	10351.6	1103.1	10379.5	1103.6	10390.8
GR	1103.1	10399.7	1102.6	10462.4	1100.8	10473.6	1100.6	10504.5	1101.1	10560.8
GR	1101.0	10594.4	1104.7	10617.7	1101.7	10628.9	1101.6	10756.7	1102.1	10871.3
GR	1101.8	10976.0	1102.9	11028.1	1102.6	11089.9	1100.6	11101.7	1100.7	11127.9
GR	1101.0	11129.8	1100.9	11177.9	1102.1	11228.6	1101.8	11278.7	1102.1	11328.8
GR	1102.9	11370.9	1100.3	11386.4	1103.0	11442.1	1102.9	11446.9	1099.0	11480.4
GR	1099.7	11492.2	1101.4	11509.6	1104.0	11532.1	1101.0	11548.0	1101.0	11581.2
GR	1103.5	11613.3	1104.1	11633.1	1104.6	11679.6	1104.4	11729.7	1104.3	11830.0
GR	1104.7	11930.2	1105.1	12030.4	1105.1	12130.7	1105.8	12230.9	1106.4	12331.1
GR	1106.7	12431.4	1107.1	12481.5	1107.2	12586.9	1107.4	12631.8	1106.9	12646.8
GR	1107.6	12665.1	1105.3	12712.8	1104.0	12730.7	1104.7	12791.0	1104.2	12832.3
GR	1104.6	12916.3	1106.3	12931.1	1107.6	12952.5	1107.7	12961.5	1107.2	12982.6
GR	1106.1	13004.6	1106.2	13024.9	1105.7	13035.9	1105.2	13041.7	1105.2	13082.9
GR	1104.4	13133.0	1104.2	13183.1	1104.8	13233.2	1105.2	13333.5	1107.1	13385.1
GR	1107.3	13394.5	1111.0	13422.7						

ET	15.469	9.1	7.1				9701	10330	9701	10500
X1	15.469	93	9848.4	10077.4	515	440	502.35			
GR	1115.8	9700.0	1106.3	9710.4	1107.1	9724.4	1100.7	9730.4	1098.6	9732.7
GR	1098.6	9778.2	1098.3	9804.2	1097.6	9829.9	1097.5	9848.4	1095.9	9859.7
GR	1095.4	9878.0	1095.7	9907.8	1097.3	9931.3	1097.4	9962.3	1095.3	9970.1
GR	1095.2	9993.4	1099.5	10024.6	1099.7	10035.6	1099.2	10050.8	1099.2	10064.7
GR	1100.4	10077.4	1100.4	10090.4	1099.4	10097.9	1099.7	10101.4	1100.9	10128.5
GR	1101.9	10143.3	1102.5	10170.9	1102.9	10199.4	1102.7	10212.7	1101.7	10226.0

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GR	1102.6	10245.2	1103.1	10298.1	1102.8	10339.1	1101.6	10355.5	1101.4	10388.6
GR	1102.2	10399.3	1101.8	10446.1	1101.4	10450.1	1101.0	10475.2	1101.1	10484.9
GR	1102.7	10496.4	1103.0	10500.3	1102.8	10514.1	1103.9	10517.8	1103.8	10525.2
GR	1105.3	10534.5	1104.2	10540.8	1104.5	10553.6	1104.3	10605.3	1104.6	10715.0
GR	1104.4	10786.9	1104.2	10827.8	1104.1	10914.7	1104.4	10964.8	1105.0	11014.9
GR	1104.5	11065.0	1104.2	11172.3	1102.7	11186.3	1101.5	11215.4	1100.8	11254.1
GR	1103.7	11302.5	1103.4	11337.3	1104.5	11365.3	1105.5	11411.7	1104.3	11472.0
GR	1102.2	11519.7	1100.5	11572.6	1100.9	11578.1	1102.2	11611.8	1101.9	11616.7
GR	1102.3	11617.9	1103.9	11640.4	1104.0	11695.2	1104.8	11711.9	1105.3	11714.1
GR	1104.9	11738.9	1105.2	11805.6	1105.1	11852.6	1105.5	11967.0	1106.0	12040.6
GR	1105.9	12181.7	1106.2	12312.2	1106.6	12419.5	1107.2	12526.8	1107.5	12561.7
GR	1108.1	12740.6	1108.6	12768.7	1107.5	12869.0	1106.8	12919.1	1107.6	12969.2
GR	1107.8	13025.5	1107.5	13121.7	1107.6	13245.7				

ET	15.564	9.1	7.1				9539	10220	9539	10300
X1	15.564	95	9935.8	10047.2	520	435	502.28			
GR	1122.2	9538.2	1106.6	9561.9	1102.2	9577.1	1100.7	9582.8	1099.2	9613.0
GR	1099.9	9664.1	1098.8	9765.0	1098.5	9773.9	1097.8	9784.1	1098.7	9794.8
GR	1098.7	9801.0	1099.7	9810.3	1100.2	9816.3	1099.6	9819.3	1100.1	9825.9
GR	1099.9	9861.8	1100.5	9868.6	1100.6	9878.5	1100.3	9892.9	1100.9	9919.7
GR	1101.8	9935.8	1100.8	9946.1	1098.1	9963.2	1096.2	9992.4	1096.7	10018.2
GR	1097.6	10025.9	1103.6	10047.2	1103.3	10059.0	1103.3	10070.9	1105.2	10124.2
GR	1105.2	10165.4	1105.0	10175.3	1103.1	10217.8	1103.5	10229.1	1103.7	10257.2

Effective Model Output  
AGUAFRIA.OUT

GR	1104.7	10307.0	1104.2	10342.6	1101.9	10362.8	1101.1	10373.6	1104.0	10384.2
GR	1104.5	10386.9	1104.0	10412.6	1103.5	10459.2	1108.9	10489.2	1106.1	10500.0
GR	1105.3	10533.2	1106.0	10645.3	1106.8	10686.5	1106.8	10737.2	1107.6	10837.4
GR	1107.8	10887.5	1107.8	10937.6	1107.3	10979.8	1107.1	11037.9	1107.3	11188.2
GR	1107.1	11218.8	1102.1	11238.3	1101.0	11279.5	1103.8	11304.2	1103.8	11322.3
GR	1104.2	11338.6	1104.7	11370.0	1104.7	11388.7	1103.5	11425.1	1105.5	11448.5
GR	1104.1	11487.6	1103.2	11496.6	1103.7	11539.0	1103.1	11560.7	1103.3	11566.2
GR	1103.8	11571.7	1105.6	11602.4	1106.1	11618.7	1106.5	11625.4	1105.8	11639.6
GR	1105.4	11672.0	1106.0	11688.6	1106.8	11730.5	1107.1	11739.5	1107.4	11906.2
GR	1107.7	12144.2	1107.6	12158.4	1107.7	12160.1	1107.9	12194.2	1107.8	12227.6
GR	1108.3	12284.2	1109.4	12428.6	1109.4	12474.1	1109.6	12486.5	1109.6	12563.6
GR	1109.8	12597.3	1109.7	12609.3	1108.3	12628.3	1108.9	12691.7	1109.1	12764.2

NC	.040	.040	.035							
ET	15.658	9.1	7.1				9446.5	10120	9447	10150
X1	15.658	94	9920.1	10083.7	520	450	496.88			
GR	1112.0	9446.5	1102.9	9461.8	1100.4	9465.5	1099.9	9483.7	1099.2	9525.8
GR	1099.0	9567.9	1099.2	9593.1	1099.1	9623.6	1098.3	9661.4	1099.0	9692.6
GR	1099.6	9731.7	1105.5	9771.5	1104.8	9821.5	1106.7	9842.5	1108.3	9871.1
GR	1107.7	9920.1	1105.9	9948.6	1104.8	9955.5	1100.0	9980.4	1097.1	10019.8
GR	1098.5	10032.1	1099.1	10035.6	1099.1	10047.6	1102.0	10063.9	1103.1	10083.7
GR	1105.1	10102.2	1105.6	10123.1	1105.3	10172.7	1105.7	10224.6	1104.9	10285.3
GR	1108.5	10297.1	1102.3	10314.8	1103.6	10344.9	1104.6	10376.8	1104.1	10404.4
GR	1108.7	10421.4	1109.0	10424.8	1109.1	10479.6	1108.9	10529.0	1109.2	10579.4
GR	1109.3	10629.5	1109.3	10659.2	1109.7	10706.2	1109.4	10729.7	1109.8	10756.5
GR	1109.9	10810.1	1109.9	10847.3	1109.7	10894.4	1110.3	10980.2	1109.8	11030.4
GR	1109.8	11078.1	1109.9	11130.6	1109.1	11168.2	1108.6	11181.1	1108.3	11181.6
GR	1107.5	11220.8	1104.3	11235.1	1102.8	11283.3	1103.7	11301.1	1104.5	11331.3
GR	1106.5	11371.9	1107.8	11386.7	1106.8	11396.5	1106.2	11416.0	1104.7	11430.3
GR	1104.6	11481.3	1103.0	11511.9	1112.2	11553.9	1110.1	11576.5	1107.0	11618.7
GR	1107.8	11631.6	1108.1	11663.4	1108.7	11681.8	1108.9	11731.8	1108.8	11788.1

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GR	1108.7	11832.1	1108.8	11882.2	1108.9	11932.3	1108.9	11982.4	1108.9	12070.3
GR	1109.2	12164.3	1109.4	12232.9	1109.4	12283.0	1109.3	12305.5	1109.4	12333.1
GR	1109.1	12352.5	1108.5	12418.3	1108.4	12483.5	1108.6	12587.7	1108.6	12683.9
GR	1108.6	12734.0	1108.5	12784.1	1109.0	12815.2	1109.8	12846.4		

ET	15.719	9.1	9.1						9385.2	10150
X1	15.719	95	9885.3	10059.7	350	310	322.50			
GR	1111.0	9385.2	1102.4	9398.9	1098.3	9405.4	1099.7	9508.2	1099.8	9558.7
GR	1100.2	9593.1	1101.5	9631.5	1101.6	9640.0	1106.0	9674.1	1106.8	9713.1
GR	1106.8	9755.4	1106.4	9770.7	1105.6	9781.8	1107.9	9798.9	1108.1	9802.8
GR	1108.2	9818.3	1107.6	9843.6	1108.7	9852.4	1109.4	9885.3	1106.4	9899.1
GR	1105.4	9942.2	1094.1	9965.8	1093.7	10015.7	1098.6	10029.2	1098.8	10039.4
GR	1114.5	10059.7	1117.7	10065.0	1119.6	10075.2	1118.7	10102.4	1123.6	10109.0
GR	1128.1	10116.8	1128.5	10122.8	1132.0	10150.4	1132.9	10155.3	1133.7	10161.2
GR	1126.3	10172.4	1105.8	10205.0	1106.5	10225.8	1106.5	10232.4	1106.7	10237.1
GR	1106.7	10249.4	1106.5	10256.5	1105.8	10268.0	1106.1	10274.7	1105.4	10291.1
GR	1105.4	10315.9	1104.6	10354.3	1104.2	10382.4	1104.6	10419.6	1104.4	10422.2
GR	1109.6	10439.6	1110.1	10467.3	1110.1	10568.3	1110.6	10669.0	1111.3	10769.1
GR	1110.6	10858.6	1110.6	10878.9	1111.2	10919.4	1110.7	10964.7	1111.5	11019.5
GR	1111.8	11069.6	1110.7	11128.0	1111.0	11170.1	1109.5	11178.2	1104.8	11207.6
GR	1105.4	11219.8	1105.5	11230.8	1104.0	11261.0	1103.7	11271.4	1105.0	11297.5
GR	1105.2	11318.8	1103.9	11330.4	1104.5	11370.1	1104.3	11412.5	1106.1	11429.7
GR	1108.0	11445.6	1108.6	11487.5	1109.3	11520.3	1109.4	11670.6	1109.4	11779.9
GR	1109.3	11920.9	1109.5	11971.0	1109.6	12071.2	1109.8	12171.3	1109.6	12271.5
GR	1109.7	12321.6	1110.1	12348.9	1110.1	12397.0	1109.1	12471.8	1109.1	12572.0
GR	1109.0	12672.1	1108.7	12822.3	1109.9	12859.5	1110.5	12884.5	1110.3	12907.4

ET	15.814	9.1	9.1						9375	10150
X1	15.814	94	9850.0	10048.8	505	505	502.36			
GR	1117.3	9374.6	1110.9	9384.0	1103.5	9401.9	1100.2	9407.4	1099.5	9412.1
GR	1097.5	9430.4	1098.7	9446.8	1101.3	9473.1	1102.9	9498.5	1103.4	9516.2
GR	1103.1	9522.3	1103.6	9550.0	1105.7	9579.7	1108.1	9598.4	1108.2	9619.8
GR	1108.8	9624.4	1108.2	9630.4	1107.9	9644.3	1107.7	9674.8	1108.2	9740.7
GR	1108.8	9752.5	1108.5	9767.7	1109.1	9784.7	1109.5	9816.0	1109.5	9842.0
GR	1108.9	9850.0	1104.3	9885.7	1103.0	9909.3	1094.9	9926.1	1094.4	9978.0
GR	1099.6	9995.3	1100.3	10014.7	1103.9	10023.6	1115.9	10048.8	1121.6	10060.5
GR	1122.0	10076.5	1121.5	10093.9	1136.0	10122.8	1139.2	10128.8	1145.6	10146.8
GR	1145.1	10156.5	1143.7	10173.9	1143.6	10179.4	1143.2	10180.4	1143.8	10190.4
GR	1136.0	10215.6	1131.3	10229.6	1105.7	10286.7	1103.9	10306.1	1103.5	10324.1
GR	1106.1	10358.1	1106.2	10381.0	1105.5	10402.6	1105.2	10424.2	1105.8	10456.9
GR	1111.8	10476.5	1112.2	10481.8	1111.6	10523.6	1112.2	10582.7	1112.3	10657.2
GR	1112.8	10703.8	1113.0	10834.2	1113.4	10934.3	1109.6	10979.0	1110.1	10985.4
GR	1109.3	11036.9	1109.5	11084.4	1109.0	11134.4	1106.8	11235.0	1105.4	11250.3
GR	1104.4	11331.3	1104.0	11347.4	1103.4	11357.9	1105.3	11364.2	1111.4	11390.3
GR	1111.4	11392.2	1109.7	11410.6	1110.8	11434.7	1111.0	11584.8	1111.1	11684.9
GR	1111.2	11785.0	1111.1	11885.1	1110.7	11985.2	1110.7	12085.3	1111.0	12189.2
GR	1111.3	12285.5	1111.6	12335.5	1112.1	12435.6	1111.0	12485.6	1111.2	12599.3
GR	1111.2	12717.4	1111.2	12836.0	1111.4	12950.2	1111.4	12954.6		

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ET	15.909	9.1	9.1						9330	10200
X1	15.909	95	9831.5	10060.0	495	505	499.15			
GR	1125.4	9329.6	1112.7	9346.7	1099.9	9365.8	1100.4	9386.2	1100.9	9439.3
GR	1101.5	9449.8	1105.1	9485.0	1104.7	9533.0	1104.3	9554.2	1106.7	9565.0
GR	1108.5	9575.0	1108.8	9588.8	1107.7	9647.0	1107.0	9651.4	1106.2	9665.7
GR	1108.6	9673.3	1107.0	9682.0	1107.3	9683.9	1108.0	9717.3	1108.7	9739.6
GR	1110.9	9790.9	1110.0	9801.3	1105.9	9813.1	1109.9	9826.2	1108.7	9831.5

Effective Model Output  
AGUAFRIA.OUT

GR	1104.9	9854.0	1102.3	9871.8	1099.5	9882.0	1099.7	9900.6	1098.3	9909.9
GR	1099.2	9964.2	1099.4	9991.9	1097.8	10029.6	1100.4	10034.2	1114.1	10060.0
GR	1120.0	10070.1	1121.0	10094.3	1143.5	10143.4	1155.8	10179.6	1159.1	10188.4
GR	1157.9	10200.1	1159.6	10213.4	1153.6	10233.8	1152.7	10241.9	1152.9	10242.7
GR	1153.0	10250.4	1138.1	10294.8	1128.3	10318.9	1118.2	10345.3	1109.4	10371.0
GR	1108.1	10394.0	1107.8	10407.1	1109.4	10461.8	1111.2	10493.9	1111.1	10497.9
GR	1110.4	10501.5	1110.6	10510.7	1111.2	10528.4	1111.5	10547.2	1110.7	10559.4
GR	1110.4	10597.6	1110.6	10629.4	1109.5	10749.1	1108.9	10766.4	1108.7	10782.2
GR	1106.7	10806.8	1108.7	10850.0	1108.9	10899.4	1107.9	10951.5	1106.9	10964.3
GR	1107.0	10993.8	1107.2	10998.3	1106.6	11041.0	1108.2	11075.0	1109.6	11100.1
GR	1110.5	11150.1	1109.8	11166.0	1107.8	11229.1	1108.4	11237.1	1111.1	11252.8
GR	1111.9	11278.9	1111.4	11325.7	1111.4	11347.0	1112.3	11400.1	1112.2	11631.5
GR	1112.2	11824.1	1112.1	12118.8	1112.4	12235.1	1112.7	12350.5	1112.6	12400.5
GR	1112.0	12450.5	1112.6	12703.6	1112.6	12902.9	1112.2	12950.7	1112.4	13044.9

ET	16.004	9.1	9.1						9257	10250
X1	16.004	94	9830.9	10077.2	505	500	500.65			
GR	1115.9	9256.5	1110.4	9264.0	1106.5	9270.7	1105.9	9300.2	1104.8	9329.7
GR	1106.0	9344.4	1106.8	9366.4	1107.4	9402.6	1106.9	9417.7	1103.6	9432.1
GR	1103.4	9503.7	1100.7	9518.4	1102.5	9588.5	1102.1	9600.1	1107.9	9645.5
GR	1109.2	9657.7	1109.5	9681.3	1110.0	9697.9	1110.7	9702.9	1110.0	9714.8
GR	1108.9	9727.2	1109.2	9736.4	1108.8	9752.5	1109.2	9807.5	1110.0	9826.9
GR	1108.9	9830.9	1099.7	9845.5	1100.2	9855.2	1100.3	9932.9	1102.2	9941.3
GR	1102.4	9957.6	1100.0	9963.1	1100.8	10006.6	1100.6	10040.6	1104.0	10047.5
GR	1114.9	10066.4	1122.8	10077.2	1123.1	10103.9	1123.6	10107.8	1143.3	10158.0
GR	1163.5	10208.5	1167.5	10241.5	1167.2	10242.6	1166.8	10255.4	1161.9	10277.7
GR	1159.2	10285.6	1158.6	10304.9	1155.4	10314.0	1137.1	10359.9	1115.3	10410.3
GR	1110.9	10425.4	1107.8	10464.2	1107.0	10501.8	1106.5	10516.2	1111.3	10562.4
GR	1111.1	10612.2	1109.7	10680.6	1109.9	10715.0	1109.5	10740.9	1109.4	10759.3
GR	1111.2	10779.8	1111.8	10824.0	1111.1	10864.5	1111.0	10920.0	1110.7	10931.7
GR	1110.2	10938.3	1110.0	10948.3	1109.2	10962.1	1109.7	10965.2	1111.0	10988.5
GR	1113.7	11014.7	1113.5	11015.5	1114.1	11064.6	1114.1	11114.6	1113.3	11264.7
GR	1113.0	11364.7	1112.2	11417.5	1111.3	11445.8	1110.1	11464.7	1110.3	11514.1
GR	1112.5	11528.8	1111.9	11564.7	1111.8	11749.5	1112.0	11964.8	1112.3	12114.8
GR	1112.2	12264.9	1112.5	12364.5	1112.4	12414.9	1112.9	12564.9	1112.9	12631.2
GR	1113.8	12765.0	1113.7	12915.0	1113.4	13015.0	1113.7	13165.1		

ET	16.099	9.1	7.1				9400	10082	9192	10300
X1	16.099	92	9804.0	10081.1	505	495	499.97			
GR	1132.1	9191.9	1126.8	9200.4	1111.0	9233.0	1104.9	9259.9	1105.0	9274.3
GR	1104.8	9282.4	1106.9	9313.0	1108.3	9366.1	1109.2	9418.0	1109.2	9466.8
GR	1110.2	9517.2	1109.5	9549.3	1109.5	9567.6	1108.4	9606.1	1105.8	9624.0
GR	1106.1	9629.4	1106.4	9668.4	1106.2	9694.8	1106.5	9705.3	1107.2	9716.8
GR	1106.8	9725.8	1106.6	9752.8	1106.8	9768.3	1106.4	9769.3	1105.5	9804.0
GR	1102.0	9815.8	1100.9	9929.6	1102.0	9942.0	1101.6	10021.2	1100.8	10043.9
GR	1120.7	10081.1	1121.5	10083.0	1122.9	10120.9	1160.4	10222.8	1176.1	10273.2

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GR	1177.9	10295.5	1172.6	10323.6	1162.9	10344.4	1159.3	10352.7	1160.0	10368.4
GR	1156.1	10377.4	1137.3	10424.4	1115.3	10474.8	1112.0	10486.0	1110.0	10491.9
GR	1107.4	10518.8	1106.8	10547.6	1106.8	10562.5	1108.2	10573.5	1111.5	10624.5
GR	1114.6	10670.3	1115.2	10686.0	1115.7	10720.9	1115.7	10798.4	1115.3	10820.9
GR	1114.5	10834.1	1113.1	10879.9	1113.3	10936.2	1113.1	10978.8	1111.9	11028.4
GR	1109.9	11050.0	1113.4	11069.5	1113.7	11079.3	1115.5	11104.9	1115.1	11109.6
GR	1115.2	11134.0	1114.9	11177.8	1115.1	11219.4	1114.8	11370.9	1114.1	11429.1
GR	1113.5	11456.5	1111.4	11479.4	1111.7	11481.5	1113.2	11504.1	1113.1	11516.6
GR	1112.4	11531.3	1112.5	11549.4	1113.1	11567.8	1113.4	11729.2	1113.2	11911.4
GR	1113.5	12079.2	1113.9	12179.2	1114.1	12304.0	1114.4	12329.3	1114.1	12501.3
GR	1113.9	12675.5	1114.0	12727.4	1114.2	12746.8	1114.1	12929.3	1114.6	13041.6
GR	1115.1	13090.7	1115.1	13122.1						

ET	16.195	9.1	7.1				9650	10091	9252	10350
X1	16.195	94	9728.6	10090.0	510	505	507.17			
GR	1138.8	9251.5	1115.9	9297.2	1115.9	9317.4	1115.6	9335.3	1115.1	9341.9
GR	1111.9	9350.9	1115.6	9363.0	1115.8	9386.3	1115.5	9465.2	1115.7	9482.3
GR	1115.6	9521.2	1110.6	9534.2	1109.4	9567.0	1110.9	9582.2	1113.3	9615.0
GR	1113.4	9643.8	1109.8	9661.9	1108.3	9690.9	1107.2	9720.8	1105.4	9728.6
GR	1103.0	9740.9	1102.5	9744.3	1104.3	9835.1	1104.6	9885.5	1104.6	9935.9
GR	1103.9	9975.1	1100.8	9984.2	1101.0	10056.9	1111.0	10072.9	1122.5	10090.0
GR	1125.4	10095.8	1126.3	10123.1	1127.3	10126.8	1130.8	10137.5	1149.2	10187.9
GR	1164.2	10238.3	1174.7	10276.1	1181.9	10305.4	1183.9	10336.5	1183.2	10351.6
GR	1183.7	10370.5	1183.2	10384.7	1181.5	10392.1	1172.3	10408.2	1158.7	10429.8
GR	1151.8	10450.2	1152.4	10474.7	1149.8	10481.8	1146.9	10490.4	1142.4	10499.6
GR	1124.1	10540.8	1113.9	10568.2	1112.4	10585.5	1111.6	10591.7	1111.1	10592.4
GR	1109.3	10641.6	1108.9	10649.4	1108.0	10656.2	1112.1	10694.1	1112.5	10708.1
GR	1113.1	10713.7	1114.0	10733.3	1114.3	10767.2	1114.3	10812.6	1114.7	10902.0
GR	1114.1	10944.0	1113.9	10994.4	1114.5	11044.8	1114.8	11106.6	1114.8	11123.1
GR	1114.0	11149.1	1111.1	11158.8	1115.5	11182.8	1116.2	11197.0	1115.6	11222.6
GR	1115.9	11233.6	1116.3	11324.7	1116.3	11395.3	1115.9	11495.4	1114.9	11620.5
GR	1114.6	11645.4	1114.8	11745.4	1115.2	11795.4	1115.2	11945.4	1115.2	12145.4
GR	1115.3	12295.4	1115.3	12345.4	1115.8	12395.4	1116.1	12545.5	1115.6	12695.5
GR	1115.5	12803.9	1115.2	12853.2	1115.3	13045.5	1115.8	13127.4		

ET	16.289	9.1	7.1				9680	10090	9353	10350
X1	16.289	93	9684.2	10089.7	510	500	500.20			
GR	1132.1	9352.4	1130.8	9355.0	1125.6	9369.0	1122.3	9376.4	1117.7	9386.0
GR	1117.0	9446.4	1116.9	9507.7	1117.0	9606.0	1114.4	9625.6	1112.7	9648.1
GR	1111.7	9684.2	1105.8	9698.3	1104.3	9708.5	1104.0	9715.6	1105.3	9799.3
GR	1104.4	9900.1	1105.1	9950.5	1104.5	10000.9	1102.9	10029.6	1100.8	10053.5
GR	1103.3	10058.7	1108.9	10069.3	1121.8	10089.7	1125.8	10097.1	1126.1	10120.6
GR	1126.7	10133.4	1133.6	10158.4	1163.9	10253.0	1164.6	10259.8	1177.0	10303.4
GR	1176.2	10317.7	1176.5	10353.8	1174.4	10381.7	1172.2	10404.2	1168.3	10454.6
GR	1160.4	10471.1	1151.5	10505.1	1145.6	10518.7	1138.7	10539.1	1139.1	10546.2

Effective Model Output  
AGUAFRIA.OUT

GR	1139.1	10557.6	1138.1	10562.6	1122.4	10602.5	1119.0	10612.0	1114.6	10625.3
GR	1114.1	10647.8	1113.6	10653.3	1113.3	10697.0	1113.8	10722.5	1115.2	10744.8
GR	1116.1	10857.9	1115.8	11010.5	1115.9	11069.9	1115.6	11110.0	1115.7	11210.4
GR	1115.3	11223.7	1112.9	11252.2	1112.7	11285.0	1116.9	11310.4	1117.3	11334.4
GR	1118.3	11360.4	1118.2	11385.2	1119.2	11460.4	1119.3	11510.4	1118.3	11560.4
GR	1117.4	11582.5	1116.6	11610.4	1116.0	11660.4	1115.4	11810.5	1115.8	11910.5
GR	1115.6	11915.9	1115.9	11925.3	1116.0	11943.6	1117.0	12010.5	1117.4	12110.5
GR	1117.2	12210.5	1116.7	12260.5	1116.8	12310.5	1117.4	12360.5	1117.5	12410.5
GR	1118.0	12452.5	1118.0	12517.6	1117.5	12560.6	1117.6	12655.8	1117.0	12760.6

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GR	1117.3	12809.1	1116.8	12810.1	1116.9	12960.6	1116.9	13010.8	1117.4	13018.7
GR	1117.3	13060.0	1117.5	13069.7	1116.7	13106.1				
ET	16.385	9.1	7.1				9690	10107	9392.8	10250
X1	16.385	94	9713.4	10106.4	505	505	506.9			
GR	1132.5	9392.8	1125.5	9412.7	1121.3	9431.2	1121.6	9461.4	1119.4	9518.1
GR	1120.6	9562.2	1119.7	9595.0	1117.6	9611.7	1114.2	9621.4	1113.6	9663.0
GR	1114.5	9713.4	1111.0	9864.7	1105.7	9959.8	1104.7	9966.0	1105.1	10015.9
GR	1103.7	10068.3	1127.1	10106.4	1127.8	10112.1	1128.5	10138.4	1128.6	10158.1
GR	1129.1	10160.7	1149.7	10217.8	1152.8	10227.2	1151.7	10240.3	1151.1	10254.5
GR	1151.6	10272.2	1151.6	10325.1	1152.1	10332.9	1152.3	10370.1	1149.0	10380.2
GR	1148.2	10381.9	1131.7	10410.7	1121.5	10435.4	1121.0	10451.9	1119.5	10466.3
GR	1119.4	10500.9	1119.7	10509.0	1120.7	10520.0	1119.6	10564.4	1119.9	10620.8
GR	1121.6	10647.0	1121.8	10660.4	1120.0	10666.6	1119.5	10667.4	1117.1	10685.5
GR	1116.2	10707.4	1116.5	10738.8	1117.6	10764.8	1117.6	10795.7	1117.4	10800.6
GR	1117.0	10877.7	1117.5	10889.7	1117.3	10910.1	1118.5	10938.8	1118.3	10954.6
GR	1114.3	10969.0	1108.7	10987.1	1108.8	11016.0	1114.0	11048.3	1116.1	11074.5
GR	1116.4	11095.5	1117.4	11128.5	1116.5	11175.3	1116.0	11225.7	1116.4	11246.8
GR	1119.1	11294.9	1120.5	11325.8	1119.4	11335.2	1119.7	11360.0	1121.1	11375.9
GR	1120.8	11381.6	1120.2	11416.5	1120.4	11425.9	1120.1	11441.3	1120.2	11475.9
GR	1119.8	11512.3	1119.1	11575.9	1116.4	11676.0	1116.4	11782.8	1116.8	11831.5
GR	1117.9	11880.3	1118.5	11976.1	1117.9	12000.3	1119.5	12076.1	1119.5	12176.1
GR	1119.2	12226.1	1119.3	12276.1	1119.1	12384.6	1119.5	12476.2	1120.1	12589.9
GR	1119.9	12628.5	1119.2	12658.2	1119.8	12676.3	1119.9	12726.3		

QT	2	36000	36000				9720	10180	9307	10263.5
ET	16.471	9.1	7.1							
X1	16.471	93	9807.4	10163.0	410	580	453.88			
GR	1137.5	9306.9	1137.5	9316.4	1136.9	9333.2	1136.8	9360.6	1138.1	9406.1
GR	1137.2	9416.4	1136.3	9460.2	1135.2	9484.2	1135.2	9514.1	1134.9	9527.2
GR	1133.5	9541.6	1133.6	9550.8	1133.1	9560.7	1131.5	9569.1	1131.0	9578.7
GR	1127.2	9624.1	1125.2	9662.1	1126.0	9676.4	1124.6	9680.1	1123.5	9685.0
GR	1121.6	9719.4	1116.8	9761.4	1116.8	9765.4	1115.1	9771.1	1113.0	9802.4
GR	1112.0	9807.4	1110.8	9818.8	1109.9	9863.3	1109.4	9872.7	1109.4	9881.8
GR	1108.8	9891.3	1108.4	9921.3	1105.9	9955.5	1105.4	9987.0	1107.7	10024.6
GR	1108.4	10100.4	1110.3	10124.9	1111.9	10153.6	1113.6	10163.0	1114.4	10169.9
GR	1119.3	10179.8	1123.1	10188.3	1133.7	10217.5	1135.2	10263.4	1135.1	10276.2
GR	1132.9	10285.8	1120.3	10319.6	1120.1	10322.9	1120.4	10337.0	1119.1	10392.8
GR	1120.1	10409.2	1120.7	10435.5	1124.5	10493.0	1124.3	10516.1	1124.5	10537.3
GR	1124.4	10550.3	1122.6	10571.9	1121.7	10590.1	1119.0	10624.7	1119.2	10641.3
GR	1119.9	10648.9	1119.2	10656.2	1119.0	10694.7	1122.1	10710.2	1122.9	10720.9
GR	1120.9	10732.1	1119.5	10743.3	1118.9	10856.8	1118.8	10973.3	1118.2	11012.7
GR	1119.5	11116.7	1119.1	11174.7	1119.7	11220.6	1118.3	11293.6	1118.7	11322.3
GR	1119.1	11324.2	1120.1	11374.6	1120.3	11425.0	1119.8	11475.4	1120.4	11519.4
GR	1120.4	11564.1	1121.3	11608.8	1121.1	11727.4	1120.2	11777.8	1121.5	11832.4
GR	1121.1	11878.6	1121.9	11938.3	1120.7	12053.7	1121.0	12145.4	1121.7	12190.1
GR	1121.8	12284.7	1122.3	12342.4	1122.7	12483.4				

NC  
ET 16.482 9.11 9.11 0.3 0.5 9750 10290

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\*\*\*\* GRAND AVENUE \*\*\*\*\*  
\*\*\*\* LOW CHORD = 1126.6 \*\*\*\*  
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X1	16.482	95	9781.9	10219.8	45	70	58.08			
GR	1140.7	9305.3	1139.9	9363.5	1139.9	9370.4	1138.7	9446.0	1138.7	9449.5
GR	1139.3	9451.2	1138.5	9456.3	1137.2	9528.1	1136.8	9537.1	1137.1	9563.8
GR	1136.6	9616.0	1135.9	9622.7	1134.7	9645.4	1133.3	9704.0	1131.9	9731.2
GR	1130.9	9750.4	1130.6	9765.2	1126.1	9774.7	1122.1	9781.9	1117.0	9795.4
GR	1114.2	9802.5	1111.1	9816.2	1109.7	9859.8	1108.9	9880.3	1108.6	9915.4
GR	1107.7	9931.8	1105.6	9947.7	1105.8	9985.2	1108.0	10015.1	1109.8	10086.8
GR	1108.8	10140.7	1109.1	10210.9	1117.6	10219.8	1119.6	10222.0	1120.1	10266.0
GR	1121.6	10270.4	1126.9	10287.0	1127.5	10289.6	1127.6	10293.3	1127.6	10326.1
GR	1127.6	10334.5	1126.1	10443.1	1125.8	10450.5	1125.8	10455.8	1126.2	10510.5
GR	1124.9	10570.5	1124.9	10577.4	1124.2	10651.5	1124.5	10662.8	1124.1	10687.3
GR	1123.9	10696.8	1123.4	10708.0	1123.0	10739.0	1122.7	10753.8	1122.2	10775.4
GR	1121.9	10780.7	1121.5	10782.6	1119.5	10822.5	1119.4	10838.0	1119.6	10875.5
GR	1118.8	10994.6	1118.6	11064.6	1118.2	11105.9	1117.3	11151.7	1116.3	11206.3
GR	1116.2	11210.6	1117.1	11245.1	1116.8	11253.8	1117.1	11286.7	1118.3	11329.8
GR	1118.3	11349.3	1118.5	11378.5	1118.7	11406.2	1119.3	11448.7	1119.7	11562.0
GR	1120.2	11569.8	1120.5	11673.4	1120.6	11689.2	1120.7	11754.4	1121.0	11817.9
GR	1121.1	11822.8	1122.0	11961.4	1122.4	11986.6	1122.8	12071.0	1123.0	12098.0
GR	1123.1	12149.2	1123.1	12151.2	1123.2	12191.5	1124.0	12254.5	1124.0	12264.5
GR	1124.5	12306.8	1124.8	12337.8	1124.4	12368.0	1124.5	12379.8	1124.1	12402.2

ET 16.506 9.11 9.11 0 400 27 8080.2 3.5 9730 10265  
SB 1.05 1.56 2.70 0 400 27 8080.2 3.5 1109 1109  
X1 16.506 72 9768.0 10245.4 125 125 126.72

Effective Model Output  
AGUAFRIA.OUT

X2	0	0	1	1129.7	1130.6	0	0	1.33	0	0
BT	6	9265	1142.5	1142.5	9745	1136.7	1136.7	9745.1	1136.7	1129.7
BT	10250	1130.6	1123.6	10250.1	1130.6	1130.6	10384.0	1129.2	1129.2	1129.2
GR	1143.1	9053.0	1142.5	9098.2	1142.5	9101.6	1141.4	9219.0	1139.9	9328.3
GR	1140.0	9334.9	1139.6	9379.4	1139.0	9386.3	1138.3	9448.3	1138.4	9482.6
GR	1138.0	9525.0	1137.9	9526.8	1136.5	9625.1	1135.2	9710.2	1135.3	9731.2
GR	1126.2	9750.8	1124.5	9756.7	1122.2	9768.0	1113.9	9802.5	1112.2	9807.7
GR	1110.1	9853.7	1109.1	9878.2	1107.6	9903.9	1106.7	9917.3	1105.4	9933.8
GR	1105.6	9939.1	1105.9	9960.5	1105.8	9970.9	1106.6	9982.4	1108.1	10007.8
GR	1109.2	10031.5	1110.0	10081.1	1110.5	10104.0	1110.0	10129.9	1110.1	10176.4
GR	1110.7	10177.1	1113.8	10221.4	1122.4	10245.4	1122.5	10247.4	1123.5	10250.2
GR	1128.1	10263.0	1128.4	10265.0	1128.4	10281.1	1128.5	10281.8	1127.8	10351.1
GR	1126.6	10446.0	1125.5	10564.8	1124.7	10654.0	1124.1	10726.7	1123.8	10775.9
GR	1123.5	10814.3	1123.6	10816.6	1123.3	10856.9	1123.3	10871.9	1123.0	10903.5
GR	1122.9	10905.5	1122.6	10987.6	1122.4	11107.4	1122.0	11206.5	1118.3	11230.6
GR	1117.6	11244.9	1118.5	11289.8	1118.6	11315.8	1119.5	11330.5	1119.6	11345.0
GR	1120.1	11374.6	1120.1	11411.2	1122.2	11426.3	1121.8	11440.2	1121.8	11474.4
GR	1121.9	11475.7	1121.8	11575.0						

ET 16.514 9.11 9.11  
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\*\*\*\*\* SANTA FE R.R. \*\*\*\*\*  
\*\*\*\*\* LOW CHORD = 1129.9 \*\*\*\*\*  
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X1	16.514	90	9800.5	10162.5	42	42	42.24			
GR	1141.8	9135.6	1141.7	9151.5	1141.8	9221.4	1141.0	9339.9	1140.9	9364.9
GR	1140.4	9449.3	1139.6	9568.0	1139.4	9605.3	1139.3	9630.2	1138.4	9727.1
GR	1137.9	9738.9	1136.7	9784.4	1130.3	9790.7	1117.1	9800.5	1112.1	9813.4
GR	1110.5	9851.3	1109.2	9886.8	1109.1	9893.7	1108.3	9904.4	1107.0	9924.4
GR	1106.1	9936.5	1105.7	9968.6	1107.7	10004.4	1108.3	10008.8	1109.5	10036.3
GR	1110.2	10056.6	1110.9	10097.7	1111.0	10105.8	1110.5	10121.9	1110.6	10124.4
GR	1115.6	10162.5	1115.6	10176.1	1117.4	10197.3	1118.0	10207.7	1119.3	10220.1
GR	1120.6	10233.6	1123.6	10238.6	1130.3	10250.8	1131.0	10257.0	1130.7	10281.2
GR	1131.4	10290.6	1132.8	10317.9	1132.7	10324.3	1129.9	10371.2	1129.7	10373.3
GR	1129.6	10392.4	1128.9	10416.9	1127.8	10434.3	1129.3	10471.9	1129.3	10483.1
GR	1127.5	10530.1	1128.3	10616.3	1128.1	10640.5	1126.6	10649.7	1126.4	10694.2
GR	1126.2	10764.8	1125.7	10775.1	1125.7	10789.6	1125.4	10807.8	1124.6	10867.7
GR	1124.9	10883.9	1124.6	10916.5	1125.3	10941.7	1125.2	10958.5	1124.6	11000.9
GR	1124.7	11042.5	1124.7	11081.1	1124.2	11103.5	1125.2	11109.7	1123.8	11138.6
GR	1123.9	11181.3	1123.3	11190.3	1123.1	11200.6	1123.5	11208.5	1120.7	11219.1
GR	1120.5	11220.7	1117.9	11231.3	1117.0	11238.2	1116.9	11270.8	1117.0	11308.8
GR	1117.2	11329.9	1119.0	11373.0	1120.0	11384.8	1121.0	11395.1	1121.6	11409.5
GR	1122.9	11418.5	1122.7	11463.9	1123.0	11523.3	1123.6	11537.8	1123.4	11564.6

NC	.050	.050	.040							
ET	16.518	9.11	9.11						9775	10260
SB	1.05	1.56	2.6	0	390	72	7100	2	1110.0	1110.0
X1	16.518	81	9817.4	10174.0	1132.0	0	0	1.67	0	
X2	0	0	1	1129.9	9768.4	1139		9787.4	1139.8	
BT	51	9766	1139		1140.9	9888.5	1140.1	1140.9	10080.5	9894.3
BT	9871.4	1140.9		9888.4	1140.1		9996.5	1140.1	1139.1	1139.2
BT	1140.9		9984.4	1140.1		10092.6	1139.1		10100.9	1139
BT		10092.5	1139.1		10103.7	1139		10104.1	1139	10116.9
BT	10101.1	1139		10117	1138.8		10119.4	1138.8	10119.5	1138.8
BT	1138.9		10117	1138.8		10132.4	1138.7	10134.9	1138.7	
BT		10132.3	1138.7		10147.4	1138.6		10147.5	1138.6	10149.9
BT	10135.1	1138.7		10147.4	1138.6		10162.8	1138.4	10162.9	1138.4
BT	1138.6		10150	1138.6		10165.4	1138.4	10177.9	1138.3	
BT		10165.3	1138.4		10180.7	1138.3		10180.8	1138.3	10193.9
BT	10178.1	1138.3		10180.7	1138.3		10196.4	1138.1	10196.5	1138.1
BT	1138.1		10194	1138.1		10209.4	1138	10211.9	1138	
BT		10209.3	1138		10225.2	1137.9		10225.3	1137.9	10227.9
BT	10212	1138		10225.2	1137.9		10241	1137.7	10241.1	1134.7
BT	1137.9		10228	1137.8						
BT		10330	1132		1139.8	9184.2	1139.8	9207.1	1139.7	9277.3
GR	1140.1	9136.9	1139.9	9146.1	1139.8	9184.2	1139.8	9207.1	1139.7	9277.3
GR	1140.0	9300.3	1140.0	9324.1	1139.7	9330.5	1139.6	9398.9	1138.7	9462.7
GR	1138.3	9466.9	1138.8	9475.7	1138.8	9497.6	1137.0	9593.4	1135.6	9600.7
GR	1135.7	9606.7	1138.0	9637.1	1135.0	9711.2	1134.9	9720.9	1135.3	9729.9
GR	1134.9	9771.3	1134.5	9779.7	1123.4	9791.3	1122.5	9792.0	1119.7	9796.3
GR	1117.5	9802.4	1113.3	9817.4	1111.9	9821.0	1111.2	9839.2	1110.0	9878.2
GR	1109.3	9899.0	1109.2	9902.5	1107.3	9925.6	1105.9	9941.2	1105.7	9974.2
GR	1107.6	10000.1	1108.4	10009.3	1110.4	10060.6	1110.7	10079.1	1111.1	10111.2
GR	1111.0	10114.7	1111.9	10121.6	1114.0	10148.6	1115.2	10166.4	1115.2	10174.0
GR	1116.2	10185.5	1118.1	10217.1	1118.1	10225.1	1126.4	10239.4	1131.6	10250.0

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GR	1133.0	10257.8	1132.9	10284.4	1132.9	10314.1	1133.3	10319.4	1132.8	10367.6
GR	1132.8	10378.3	1132.3	10395.9	1131.9	10456.1	1131.6	10473.4	1131.9	10498.8
GR	1131.7	10553.9	1131.5	10569.0	1130.9	10588.0	1131.0	10622.6	1130.6	10641.3
GR	1130.7	10657.4	1130.4	10708.7	1129.9	10712.9	1130.0	10718.0	1129.9	10729.9
GR	1130.0	10726.3	1130.0	10779.2	1129.5	10862.8	1129.0	10871.0	1129.1	10875.8
GR	1129.4	10894.4	1129.4	11004.2	1129.6	11014.1	1129.5	11023.5	1129.2	11153.8
GR	1129.4	11171.4								

NC				0.1	0.3					
ET	16.612	9.1	9.1						9793.5	10286.5
X1	16.612	84	9808.2	10161.2	545	260	499.42			
GR	1127.9	9793.5	1112.1	9808.2	1108.8	9916.8	1109.3	9920.2	1109.8	9926.5

Effective Model Output  
AGUAFRIA.OUT

GR	1108.3	9944.2	1108.7	9949.8	1108.9	9958.7	1110.3	9983.6	1109.9	10016.8
GR	1111.6	10034.3	1111.7	10055.6	1112.1	10084.9	1111.7	10105.4	1109.1	10113.2
GR	1109.0	10136.8	1115.6	10161.2	1117.3	10167.6	1122.9	10189.9	1122.9	10198.4
GR	1123.1	10219.0	1123.9	10236.5	1124.5	10279.3	1124.5	10286.5	1124.1	10293.7
GR	1123.5	10310.0	1120.1	10319.6	1117.6	10325.9	1118.3	10331.4	1118.6	10336.5
GR	1117.7	10377.7	1117.6	10386.5	1116.6	10426.9	1116.5	10436.5	1116.9	10486.5
GR	1116.6	10525.2	1116.5	10536.5	1116.4	10574.4	1116.2	10586.5	1115.6	10623.6
GR	1115.7	10636.5	1115.6	10677.3	1122.1	10695.6	1121.1	10702.1	1121.4	10723.8
GR	1121.7	10738.6	1121.7	10748.4	1121.8	10788.7	1125.6	10806.5	1125.6	10818.0
GR	1121.5	10827.9	1122.7	10837.7	1120.9	10840.1	1121.4	10886.5	1121.6	10918.7
GR	1121.7	10936.6	1121.3	10986.6	1121.4	11017.0	1121.0	11036.6	1120.3	11066.2
GR	1119.8	11086.6	1120.5	11115.4	1119.7	11136.6	1119.7	11158.5	1119.2	11186.6
GR	1119.4	11198.8	1118.5	11225.0	1118.2	11247.2	1117.9	11273.5	1118.1	11275.0
GR	1118.5	11296.7	1118.3	11304.3	1118.4	11316.1	1118.5	11334.1	1118.7	11352.2
GR	1118.5	11355.6	1116.1	11376.8	1117.1	11399.9	1117.9	11407.7	1120.2	11421.8
GR	1120.6	11423.7	1122.6	11446.9	1125.2	11472.1	1126.3	11481.4		
ET	16.707	9.1	9.1						9790.4	10276.3
X1	16.707	96	9805.5	10185.4	500	510	500.01			
GR	1127.7	9790.3	1112.6	9805.5	1110.0	9820.3	1110.8	9869.6	1109.9	9920.5
GR	1109.7	9971.3	1111.0	9992.0	1111.4	10009.5	1112.1	10021.2	1113.4	10048.9
GR	1112.0	10054.8	1112.8	10073.1	1112.0	10096.2	1110.7	10099.8	1109.7	10111.5
GR	1109.8	10114.8	1112.1	10129.7	1124.6	10185.4	1123.7	10224.4	1123.8	10261.7
GR	1124.3	10267.4	1124.7	10270.6	1126.5	10276.3	1126.4	10280.1	1123.2	10301.1
GR	1123.2	10304.6	1119.8	10311.0	1112.8	10325.7	1111.1	10334.1	1108.9	10343.6
GR	1109.3	10375.3	1109.3	10525.7	1109.6	10675.7	1109.1	10771.1	1109.6	10815.1
GR	1112.2	10821.4	1119.3	10834.5	1124.5	10842.7	1125.2	10846.3	1123.5	10852.4
GR	1123.8	10872.0	1123.7	10893.4	1124.3	10911.0	1124.2	10926.9	1122.8	10937.1
GR	1123.0	10958.4	1126.1	10963.0	1123.6	10969.6	1122.2	10974.0	1123.8	10981.3
GR	1123.0	11029.8	1122.6	11081.9	1122.4	11186.1	1122.3	11266.8	1122.5	11394.5
GR	1122.4	11498.6	1122.4	11550.7	1122.2	11607.6	1122.0	11612.0	1122.8	11648.8
GR	1122.5	11654.9	1122.3	11657.3	1119.5	11666.6	1118.3	11672.4	1118.3	11687.6
GR	1117.3	11702.5	1116.6	11714.1	1117.0	11738.1	1116.2	11740.9	1116.2	11749.7
GR	1115.3	11754.1	1114.7	11772.4	1113.3	11789.6	1112.0	11801.7	1112.5	11811.3
GR	1109.7	11829.9	1107.7	11859.4	1109.2	11865.4	1110.6	11879.9	1110.5	11898.8
GR	1110.3	11904.9	1113.1	11918.7	1123.4	11958.5	1124.1	11970.0	1123.4	11982.6
GR	1123.4	11997.7	1122.9	12015.2	1122.8	12016.7	1121.8	12047.1	1119.6	12083.8
GR	1123.7	12108.9	1127.9	12130.3	1128.3	12135.7	1128.3	12149.5	1127.7	12159.3
GR	1129.4	12167.8								

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ET	16.801	9.1	7.1				9800	10200	9711.5	10200
X1	16.801	92	9810.5	10182.3	495	495	498.39			
GR	1128.4	9711.5	1112.7	9810.5	1113.3	9820.9	1113.5	9826.8	1112.0	9870.5
GR	1112.2	9921.5	1110.7	9972.7	1110.1	10023.8	1108.9	10041.2	1111.0	10053.7
GR	1110.2	10074.9	1111.1	10120.7	1128.1	10182.3	1126.3	10227.9	1127.6	10277.9
GR	1127.6	10327.8	1126.0	10354.0	1124.4	10366.8	1122.2	10367.3	1123.6	10375.9
GR	1130.2	10403.1	1127.0	10429.4	1126.0	10462.9	1126.8	10519.3	1126.7	10633.4
GR	1126.0	10640.2	1125.7	10669.9	1125.5	10801.5	1123.5	10868.3	1124.0	10873.4
GR	1125.6	10875.9	1125.0	10877.2	1125.3	10908.2	1124.1	10926.5	1124.8	10946.3
GR	1122.3	10951.3	1124.0	10960.1	1124.0	10995.9	1124.9	11013.7	1124.2	11021.6
GR	1125.3	11027.4	1123.7	11034.4	1123.7	11053.3	1125.3	11064.1	1124.9	11065.5
GR	1123.6	11083.5	1123.5	11255.7	1123.4	11411.4	1123.1	11613.6	1123.3	11798.9
GR	1122.6	11910.1	1124.2	11924.6	1124.3	11938.8	1121.0	11964.2	1120.9	11972.8
GR	1119.5	11990.9	1118.5	12018.6	1117.0	12040.1	1121.9	12066.5	1121.3	12069.7
GR	1115.3	12085.5	1115.0	12104.9	1113.3	12146.6	1112.8	12307.4	1112.1	12329.9
GR	1113.9	12347.0	1113.7	12367.5	1114.6	12426.9	1107.9	12447.2	1102.7	12461.4
GR	1104.1	12519.7	1106.1	12553.5	1109.8	12566.1	1110.8	12588.3	1116.3	12606.4
GR	1120.0	12622.2	1124.8	12634.5	1123.8	12674.2	1121.3	12702.3	1121.3	12706.7
GR	1129.2	12729.1	1129.9	12737.1	1129.7	12743.5	1127.9	12751.1	1129.6	12755.7
GR	1129.3	12766.7	1127.5	12777.0	1123.3	12792.8	1127.5	12821.0	1130.4	12903.8
GR	1131.6	12913.0	1132.2	12927.3						
ET	16.895	9.1	9.1						9810.8	10200
X1	16.895	93	9829.7	10177.6	500	505	494.89			
GR	1128.9	9810.8	1113.2	9829.7	1112.8	9851.0	1113.8	9923.2	1112.9	9957.7
GR	1111.1	9970.4	1109.8	10008.7	1112.0	10023.7	1111.0	10038.4	1109.9	10048.4
GR	1110.3	10071.1	1113.1	10084.6	1114.7	10126.3	1111.4	10142.4	1120.9	10177.6
GR	1129.4	10200.9	1128.5	10225.5	1128.3	10279.6	1127.6	10330.6	1127.6	10405.7
GR	1126.2	10488.7	1125.7	10531.2	1125.9	10578.2	1127.0	10597.1	1125.3	10714.9
GR	1125.5	10732.4	1126.0	10738.6	1125.3	10797.5	1124.7	10889.7	1125.3	10981.3
GR	1124.6	11072.6	1125.4	11096.6	1126.7	11118.7	1125.0	11135.3	1124.1	11139.0
GR	1125.2	11158.3	1125.1	11228.0	1124.9	11242.4	1124.6	11245.4	1125.8	11249.0
GR	1127.1	11259.1	1124.6	11268.8	1124.6	11343.2	1124.8	11359.5	1124.5	11405.2
GR	1126.1	11467.8	1130.0	11490.5	1131.6	11504.3	1133.2	11512.1	1134.7	11517.2
GR	1133.1	11521.4	1130.5	11532.6	1127.4	11582.3	1126.1	11558.9	1125.7	11653.5
GR	1125.4	11661.0	1125.7	11667.2	1125.6	11820.7	1125.3	12003.3	1125.2	12192.1
GR	1125.0	12416.8	1124.4	12457.8	1125.1	12515.2	1124.3	12526.1	1126.2	12539.4
GR	1125.6	12563.5	1125.9	12600.5	1115.5	12645.2	1115.0	12660.2	1115.0	12685.6
GR	1115.3	12689.7	1117.3	12699.4	1117.6	12706.3	1116.6	12710.7	1116.0	12716.7
GR	1115.5	12775.7	1114.2	12827.8	1114.7	12850.1	1114.8	12867.9	1117.6	12900.4
GR	1121.2	12934.0	1124.4	12958.5	1125.7	12972.6	1126.9	12990.6	1128.2	13003.4
GR	1129.6	13033.3	1130.5	13099.0	1130.0	13173.2	1130.4	13200.3	1129.9	13214.7
GR	1128.2	13236.0	1129.0	13242.3	1130.1	13283.3				
ET	16.990	9.1	9.1						9725.4	10150
X1	16.990	94	9810.0	10135.4	495	475	500.20			
GR	1157.3	9725.4	1157.1	9748.5	1113.3	9810.0	1112.4	9829.8	1115.1	9867.1
GR	1112.0	9880.5	1110.9	9928.1	1111.5	9994.8	1115.0	10039.8	1114.4	10097.1
GR	1118.5	10108.0	1118.5	10118.8	1121.6	10128.1	1125.6	10135.4	1132.6	10146.3
GR	1130.4	10170.5	1130.8	10182.4	1124.6	10201.0	1122.2	10231.9	1122.1	10282.5
GR	1123.2	10329.7	1129.1	10340.5	1124.0	10350.5	1124.0	10382.8	1132.1	10397.2

Effective Model Output  
AGUAFRIA.OUT

GR	1128.4	10411.7	1126.7	10420.9	1126.1	10573.0	1127.9	10648.2	1127.9	10866.8
GR	1128.0	11032.5	1127.6	11073.1	1128.1	11082.5	1127.8	11137.2	1126.4	11140.9

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GR	1128.0	11189.2	1127.6	11250.5	1126.3	11293.3	1127.0	11338.2	1126.5	11403.1
GR	1127.4	11410.4	1126.6	11445.7	1127.3	11465.2	1127.6	11519.1	1128.1	11532.8
GR	1127.6	11586.4	1126.8	11609.9	1126.7	11843.9	1126.8	11988.7	1129.0	12041.8
GR	1125.8	12048.3	1128.5	12056.1	1127.1	12097.2	1127.8	12170.8	1124.8	12180.6
GR	1119.2	12188.4	1116.2	12191.6	1111.2	12195.4	1090.6	12206.1	1092.1	12285.4
GR	1093.9	12332.8	1101.0	12334.5	1112.0	12337.1	1125.2	12341.0	1125.1	12367.4
GR	1125.8	12393.1	1124.4	12431.4	1123.9	12507.9	1123.2	12529.8	1123.6	12585.8
GR	1127.2	12630.0	1136.9	12660.9	1128.6	12676.3	1127.0	12692.1	1125.9	12746.2
GR	1127.9	12795.1	1130.4	12813.6	1130.5	12826.3	1128.3	12904.8	1129.2	12916.6
GR	1127.6	12934.8	1125.7	12966.4	1126.6	12979.5	1125.4	13179.1	1126.4	13287.4
GR	1124.9	13341.6	1125.6	13503.0	1125.2	13561.0	1120.4	13574.0	1121.1	13632.4
GR	1128.6	13654.8	1128.6	13664.2	1130.6	13675.3	1130.2	13709.1		

ET	17.085	9.1	9.1						9678.3	10150
X1	17.085	94	9735.7	10112.8	570	430	500.75			
GR	1154.5	9678.3	1153.4	9687.0	1152.5	9687.8	1153.4	9692.1	1121.8	9735.7
GR	1119.1	9786.4	1116.9	9880.2	1112.2	9896.4	1111.5	9936.4	1111.9	9973.1
GR	1114.8	9994.6	1114.6	10009.2	1113.6	10018.0	1115.9	10099.0	1122.4	10112.8
GR	1120.8	10117.6	1120.9	10126.5	1133.5	10150.6	1132.7	10261.5	1131.2	10286.5
GR	1131.9	10293.3	1131.9	10303.3	1129.6	10333.1	1129.4	10341.4	1127.1	10353.4
GR	1128.6	10362.6	1128.0	10381.3	1129.5	10398.7	1126.9	10412.9	1127.1	10430.8
GR	1130.9	10472.3	1130.2	10489.1	1129.0	10605.7	1129.8	10636.5	1130.6	10819.2
GR	1131.5	10856.6	1129.9	10902.4	1130.4	10936.6	1132.7	10973.6	1129.2	11106.7
GR	1131.6	11122.5	1129.9	11129.6	1130.2	11233.1	1128.1	11394.9	1130.3	11456.2
GR	1128.6	11513.4	1129.7	11668.0	1128.7	11725.6	1129.3	11741.5	1127.1	11748.6
GR	1126.6	11772.7	1129.9	11783.4	1129.8	11795.7	1127.5	11800.8	1122.8	11814.8
GR	1121.8	11820.9	1120.9	11839.5	1113.8	11837.1	1104.9	11883.9	1097.2	11913.5
GR	1094.5	11946.1	1093.3	12056.3	1093.2	12174.4	1091.0	12298.3	1090.4	12412.9
GR	1088.9	12445.5	1091.5	12520.3	1092.5	12579.5	1103.1	12601.4	1118.0	12621.3
GR	1125.1	12629.8	1126.8	12675.5	1127.8	12689.0	1139.4	12733.1	1128.4	12757.2
GR	1127.7	12828.0	1128.2	12867.1	1127.4	12902.6	1128.3	12936.4	1127.4	12988.1
GR	1125.9	12994.4	1124.8	13043.2	1127.7	13053.4	1126.9	13103.6	1127.1	13335.6
GR	1126.0	13555.0	1127.2	13654.8	1125.9	13875.3	1125.9	13910.8	1122.1	13926.4
GR	1124.4	13982.2	1129.1	14001.2	1130.6	14004.5	1130.5	14037.8		

ET	17.180	9.1	7.1				9630	10150	9468.1	10150
X1	17.180	93	9711.4	10113.3	645	350	501.73			
GR	1157.1	9468.1	1153.8	9481.2	1151.2	9505.3	1145.1	9539.1	1125.4	9573.9
GR	1126.9	9615.3	1124.6	9655.2	1125.6	9668.2	1124.8	9711.4	1115.4	9813.1
GR	1112.2	9825.6	1114.3	9881.2	1123.1	9900.8	1120.0	9914.3	1115.0	9927.8
GR	1113.5	9941.2	1115.6	10035.3	1121.0	10080.9	1124.8	10096.6	1130.9	10113.3
GR	1132.8	10150.1	1139.9	10170.3	1146.4	10181.3	1144.4	10193.2	1142.6	10196.2
GR	1150.8	10223.9	1144.5	10238.5	1142.2	10250.9	1140.8	10252.2	1140.0	10265.1
GR	1141.0	10270.7	1139.5	10288.1	1142.5	10297.4	1154.3	10327.3	1159.6	10347.7
GR	1155.0	10356.6	1156.6	10364.6	1156.1	10369.2	1149.7	10383.0	1136.3	10403.2
GR	1135.8	10410.5	1133.4	10419.5	1133.3	10428.8	1130.3	10443.1	1131.7	10568.3
GR	1139.4	10588.4	1136.6	10592.6	1137.7	10612.5	1137.5	10646.2	1134.2	10651.8
GR	1133.3	10693.3	1132.0	10701.0	1130.7	10992.1	1131.1	11183.3	1129.8	11278.8
GR	1130.7	11327.6	1127.9	11430.2	1127.6	11466.3	1123.7	11542.6	1128.5	11554.2
GR	1127.1	11779.9	1096.6	11809.7	1093.7	11928.0	1093.7	12096.5	1092.0	12208.9
GR	1093.0	12235.6	1089.7	12341.7	1091.4	12349.6	1090.3	12374.0	1087.7	12388.3
GR	1088.0	12397.0	1089.5	12400.7	1122.6	12434.9	1127.4	12438.7	1127.9	12591.4
GR	1137.0	12652.0	1143.7	12680.5	1132.5	12701.2	1128.7	12750.2	1128.4	12822.4
GR	1129.6	12835.7	1128.0	12917.8	1129.2	12933.9	1127.3	13191.5	1127.5	13501.1

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GR	1127.1	13782.0	1127.4	14055.4	1127.7	14065.6	1124.3	14076.4	1125.3	14141.8
GR	1126.6	14148.2	1131.2	14157.8	1131.0	14190.4				

ET	17.277	9.1	7.1				9525	10230	9081.6	10370
X1	17.277	92	9799.9	10208.3	700	305	512.16			
GR	1151.0	9081.6	1151.7	9103.7	1141.6	9165.0	1129.9	9180.0	1129.9	9227.7
GR	1128.7	9236.5	1128.5	9251.0	1130.3	9270.6	1127.7	9290.2	1129.8	9306.4
GR	1125.5	9320.9	1122.1	9339.3	1121.9	9397.5	1116.9	9556.3	1117.6	9624.0
GR	1120.8	9638.5	1120.8	9799.9	1122.4	9833.3	1115.1	9848.2	1119.0	9886.4
GR	1118.3	9987.5	1119.0	10008.3	1115.8	10026.1	1113.7	10074.8	1115.3	10091.2
GR	1119.2	10102.5	1116.7	10126.2	1119.7	10131.9	1119.9	10173.1	1121.5	10193.8
GR	1126.2	10208.3	1125.8	10223.3	1121.6	10232.5	1121.3	10260.0	1123.5	10311.7
GR	1127.2	10334.1	1127.7	10361.7	1128.6	10367.6	1125.2	10387.4	1123.6	10412.9
GR	1128.8	10448.5	1128.8	10527.3	1129.8	10538.0	1129.2	10567.7	1132.7	10820.8
GR	1130.8	11078.5	1130.4	11245.8	1129.3	11270.5	1133.8	11280.3	1129.6	11297.1
GR	1106.3	11342.5	1107.9	11478.6	1126.0	11555.1	1128.1	11599.8	1131.0	11614.1
GR	1129.0	11628.8	1128.9	11703.5	1115.6	11717.2	1090.0	11749.9	1091.9	11775.6
GR	1094.4	12031.7	1088.7	12294.0	1087.6	12320.9	1109.3	12339.8	1133.0	12358.3
GR	1130.8	12364.6	1133.9	12399.5	1138.4	12425.8	1141.3	12434.2	1131.9	12455.6
GR	1130.0	12490.0	1129.3	12646.1	1131.5	12666.9	1129.1	12740.9	1130.0	12754.4
GR	1128.5	13010.6	1128.2	13270.8	1128.0	13530.9	1128.4	13829.0	1128.0	13932.6
GR	1125.4	13941.2	1125.4	13966.4	1128.7	13976.8	1128.2	13987.5	1124.8	14006.3
GR	1123.3	14124.7	1128.6	14156.4	1128.5	14163.0	1130.1	14168.9	1127.9	14179.7
GR	1132.0	14191.6	1131.9	14233.7						

ET	17.370	9.1	7.1				9350	10208.5	8536.2	10208.5
X1	17.370	92	9740.4	10160.5	635	270	487.12			
GR	1166.2	8536.2	1167.8	8566.8	1166.4	8583.8	1147.3	8683.5	1143.3	8720.1
GR	1140.3	8730.7	1138.9	8820.3	1136.7	8830.6	1142.4	8851.2	1139.9	8861.9
GR	1136.4	8925.1	1132.0	8939.1	1132.0	8948.3	1133.2	8952.8	1133.8	8979.9
GR	1123.9	8996.6	1121.6	9052.0	1120.9	9169.4	1122.9	9185.3	1124.0	9256.2

Effective Model Output  
AGUAFRIA.OUT

GR	1125.2	9430.6	1117.9	9464.5	1119.1	9554.7	1122.9	9574.2	1121.9	9579.1
GR	1124.2	9724.4	1120.5	9740.4	1117.4	9856.0	1118.3	9871.9	1116.0	9894.1
GR	1115.2	9924.2	1116.2	9948.2	1115.6	9969.7	1118.0	9996.7	1120.1	10009.8
GR	1121.3	10033.3	1118.8	10037.0	1118.4	10063.5	1124.4	10160.5	1131.3	10177.8
GR	1130.7	10179.7	1132.8	10196.0	1138.0	10208.5	1133.5	10277.0	1133.2	10463.3
GR	1130.2	10479.0	1130.3	10514.9	1133.0	10566.8	1131.5	10838.7	1130.5	10910.4
GR	1133.9	10918.2	1126.0	10949.4	1107.1	10994.7	1106.6	11234.0	1110.7	11310.0
GR	1111.9	11501.0	1101.2	11521.3	1102.3	11612.0	1111.6	11637.0	1091.3	11668.4
GR	1090.3	11681.8	1090.7	11738.0	1086.7	11884.0	1089.2	11893.0	1086.6	11897.7
GR	1092.8	11962.9	1091.8	11981.2	1092.8	11985.0	1129.3	12013.9	1129.3	12034.1
GR	1140.8	12093.5	1147.4	12123.9	1147.8	12136.9	1131.0	12187.9	1129.9	12468.7
GR	1129.9	12552.3	1131.0	12574.3	1129.4	12866.8	1129.0	13199.4	1128.5	13311.6
GR	1126.6	13341.2	1126.3	13408.0	1128.4	13429.9	1128.4	13462.6	1124.0	13538.8
GR	1124.3	13795.3	1125.0	14054.1	1126.5	14076.9	1130.4	14106.8	1128.6	14115.6
GR	1132.6	14129.9	1132.4	14168.9						
ET	17.458	9.1	7.1				9280	10250	8689.6	10450
XI	17.458	92	9370.6	10225.3	485	350	466.91			
GR	1137.5	8689.6	1134.6	8719.5	1138.8	8738.2	1138.3	8746.5	1132.8	8765.0
GR	1132.5	8786.3	1136.5	8797.0	1135.7	8812.4	1132.6	8846.8	1146.8	8948.8
GR	1137.6	8976.0	1137.4	9003.3	1130.1	9014.1	1126.1	9023.7	1121.7	9049.0
GR	1121.4	9062.9	1123.1	9069.1	1123.0	9091.0	1121.4	9095.5	1125.3	9174.2
GR	1123.9	9242.4	1126.0	9291.7	1125.2	9300.9	1126.4	9370.6	1119.7	9388.4

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GR	1118.6	9489.5	1122.0	9525.5	1119.9	9829.2	1120.4	9840.3	1116.5	9847.2
GR	1118.6	9925.1	1121.7	9935.7	1119.6	9939.4	1120.4	9962.7	1124.5	9978.6
GR	1128.1	10094.0	1125.2	10109.8	1128.1	10171.2	1127.7	10217.9	1129.3	10225.3
GR	1125.1	10246.2	1125.2	10254.6	1130.8	10271.4	1128.7	10284.2	1129.0	10345.0
GR	1131.8	10357.4	1134.6	10442.8	1133.4	10459.5	1136.5	10467.5	1132.9	10480.5
GR	1123.2	10589.7	1119.1	10603.6	1117.6	10659.7	1118.4	10675.0	1113.7	10691.1
GR	1113.3	10706.4	1117.4	10722.8	1113.5	10786.6	1110.8	10803.4	1107.4	10929.4
GR	1112.4	11229.4	1111.8	11307.7	1095.5	11325.7	1094.8	11383.2	1096.6	11445.3
GR	1091.5	11460.7	1091.2	11474.0	1092.6	11478.9	1091.4	11483.8	1092.6	11484.8
GR	1095.0	11527.9	1092.8	11590.0	1134.9	11640.7	1147.3	11704.2	1131.9	11737.5
GR	1130.9	12038.7	1131.0	12346.0	1131.0	12565.0	1130.1	12892.2	1130.7	13055.7
GR	1127.3	13066.0	1127.5	13084.7	1131.6	13098.9	1128.5	13100.4	1126.8	13108.6
GR	1129.6	13120.3	1131.2	13453.4	1131.0	13777.2	1130.4	14088.7	1129.6	14116.9
GR	1133.3	14132.7	1133.3	14165.7						

GR POINTS MODIFIED - BOTTOM OF GRAVEL MINE RAISED TO ELIMINATE NON-EFFECTIVE FLOW AREA BETWEEN SECTIONS 17.548 TO 18.653.

ET	17.548	9.1	7.1				9246.6	10310	8808.5	10334.4
XI	17.548	92	9246.7	10256.0	465	445	472.50			
GR	1137.7	8808.5	1138.3	8854.7	1137.7	8864.7	1133.7	8890.2	1133.5	8982.2
GR	1126.6	9001.3	1124.3	9032.9	1127.1	9050.5	1125.2	9062.5	1127.1	9094.0
GR	1125.3	9119.1	1124.6	9147.3	1120.4	9154.7	1121.9	9182.8	1129.0	9203.0
GR	1125.2	9217.0	1126.8	9246.7	1127.7	9251.1	1122.0	9277.8	1122.0	9284.7
GR	1122.0	9321.0	1122.0	9326.5	1122.0	9361.3	1122.0	9373.9	1122.0	9393.2
GR	1122.0	9430.1	1122.0	9444.3	1122.0	9460.8	1122.0	9528.5	1122.0	9637.3
GR	1122.0	9775.7	1122.0	9798.4	1122.0	9818.3	1128.0	9831.6	1130.8	9843.9
GR	1126.2	9866.7	1127.0	9929.9	1126.6	9940.0	1132.4	9960.0	1129.9	9970.3
GR	1128.8	10120.9	1127.2	10152.8	1128.0	10204.1	1130.3	10232.8	1136.2	10256.0
GR	1135.4	10267.4	1136.2	10271.2	1136.1	10316.0	1134.7	10323.7	1137.9	10334.4
GR	1134.7	10346.3	1110.9	10406.9	1110.6	10467.5	1112.4	10553.7	1111.3	10565.7
GR	1109.2	10715.0	1109.7	10736.4	1107.4	10807.1	1105.0	10849.8	1105.4	10873.1
GR	1106.6	10889.1	1105.9	10925.1	1108.5	11020.0	1108.6	11047.4	1107.4	11133.5
GR	1108.9	11204.5	1111.2	11269.0	1113.3	11349.1	1128.8	11391.7	1130.1	11454.0
GR	1131.4	11488.8	1132.7	11560.6	1132.2	11814.2	1132.1	12081.6	1132.9	12368.9
GR	1132.9	12640.5	1133.3	12792.3	1132.6	12824.7	1133.0	13005.5	1132.2	13041.9
GR	1132.7	13067.5	1128.7	13077.8	1128.4	13098.0	1131.5	13108.3	1129.9	13112.6
GR	1132.1	13373.9	1133.6	13629.5	1132.4	13969.5	1131.3	14112.7	1130.2	14121.2
GR	1134.6	14137.9	1134.6	14168.6						

QT	2	37500	37500							
ET	17.638	9.1	7.1				9285	10360	8744.2	10386.4
XI	17.638	95	9774.7	10288.4	490	450	476.45			
GR	1139.1	8744.2	1138.7	8811.6	1135.9	8827.7	1135.6	8945.5	1136.7	8959.6
GR	1137.0	9056.9	1139.6	9082.2	1137.1	9098.5	1132.9	9176.5	1132.9	9197.8
GR	1130.0	9207.3	1130.0	9242.4	1130.0	9258.8	1130.3	9270.5	1130.0	9293.0
GR	1130.0	9313.8	1130.0	9348.6	1130.0	9445.5	1130.0	9464.8	1133.5	9483.8
GR	1130.0	9498.2	1130.0	9545.3	1130.0	9556.0	1130.0	9566.8	1130.0	9589.7
GR	1130.0	9610.2	1130.0	9612.2	1130.0	9695.5	1130.0	9750.6	1130.0	9768.6
GR	1130.8	9774.7	1130.0	9798.8	1130.0	9831.0	1130.0	9911.6	1131.0	9927.0
GR	1130.0	9938.1	1130.0	9966.8	1131.7	9977.6	1130.0	10002.0	1130.0	10049.6
GR	1130.0	10100.5	1132.1	10124.7	1130.1	10136.8	1132.3	10166.7	1133.3	10195.3
GR	1133.7	10274.7	1134.6	10288.4	1133.2	10316.0	1134.7	10324.9	1136.3	10359.3
GR	1135.6	10373.5	1139.6	10386.4	1134.4	10413.9	1126.8	10420.6	1111.3	10442.5
GR	1110.6	10451.1	1108.6	10458.0	1106.8	10460.6	1107.9	10551.4	1110.5	10612.2

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GR	1108.3	10646.4	1107.1	10711.3	1107.3	10794.1	1106.4	10810.0	1108.4	11000.6
GR	1123.6	11024.4	1136.5	11040.6	1134.4	11063.6	1138.3	11074.3	1132.3	11096.7
GR	1133.8	11110.6	1133.4	11218.3	1134.9	11254.8	1134.2	11502.9	1134.1	11714.3
GR	1133.7	11962.3	1134.9	12189.4	1135.0	12393.4	1135.0	12643.3	1134.4	12877.2
GR	1134.2	13094.3	1134.1	13099.2	1129.9	13109.2	1130.4	13128.3	1133.2	13138.4
GR	1131.3	13142.8	1132.2	13161.0	1134.1	13405.8	1135.7	13615.4	1137.5	13723.0
GR	1134.9	13943.6	1132.8	14141.9	1131.9	14149.9	1136.0	14166.5	1136.1	14187.2
ET	17.730	9.1	7.1				9330	10360	8355	10373.1
XI	17.730	94	9727.0	10246.8	475	490	486.34			

Effective Model Output  
AGUAFRIA.OUT

GR	1140.1	8354.5	1137.5	8392.6	1136.5	8588.9	1133.1	8598.6	1133.5	8619.0
GR	1137.2	8631.3	1138.0	8762.1	1139.8	8834.8	1137.9	8871.8	1136	8888.3
GR	1136	8944.8	1136	8965.8	1136	8987.4	1136	9015.0	1136	9067.5
GR	1136	9082.1	1136	9138.1	1136	9150.3	1136	9174.6	1136	9186.5
GR	1136	9198.1	1136	9208.6	1136	9228.6	1136	9241.9	1136	9279.0
GR	1136	9324.9	1136	9375.0	1136	9468.9	1136	9542.5	1136	9566.8
GR	1136	9586.6	1136	9611.2	1136	9617.5	1136	9640.2	1136	9660.6
GR	1136	9699.5	1136.7	9719.3	1136.4	9727.0	1130.0	9748.6	1130.0	9794.8
GR	1130.0	9803.0	1130.1	9851.1	1130.0	9887.4	1130.0	9924.6	1130.0	9951.1
GR	1130.7	9961.2	1130.0	9968.7	1130.0	9994.6	1130.0	10014.1	1130.0	10093.7
GR	1134.6	10135.4	1134.4	10246.8	1135.8	10298.8	1137.6	10309.3	1137.5	10342.5
GR	1136.2	10354.8	1141.5	10373.1	1114.5	10402.1	1101.6	10414.2	1100.5	10445.3
GR	1101.3	10516.9	1099.8	10614.2	1137.4	10651.8	1136.3	10666.4	1135.8	10784.7
GR	1136.8	10811.2	1117.8	10830.8	1118.7	10946.9	1117.6	11110.5	1115.9	11130.2
GR	1119.5	11143.9	1129.7	11173.3	1130.4	11201.8	1135.8	11220.8	1135.7	11473.3
GR	1136.2	11531.5	1139.4	11540.5	1136.0	11553.7	1136.8	11804.4	1136.5	12068.6
GR	1136.6	12356.2	1136.4	12629.4	1135.8	12911.9	1135.8	13152.8	1132.3	13161.7
GR	1131.8	13184.8	1134.4	13193.2	1133.6	13199.0	1135.9	13473.6	1138.3	13727.4
GR	1136.3	14011.6	1134.1	14214.3	1137.8	14229.4	1138.4	14262.0		

NC	.045	.050	.035							
ET	17.821	9.1	7.1				9385	10270	8350	10270
X1	17.821	92	9764.8	10227.7	475	480	478.24			
GR	1142.2	8181.7	1138.9	8323.3	1139.0	8357.4	1140.1	8379.7	1138.9	8433.5
GR	1133.6	8448.4	1133.8	8481.3	1138.1	8495.5	1139.6	8524.0	1139.8	8553.7
GR	1137	8680.0	1137	8706.9	1137	8728.5	1137	8806.5	1137	8864.8
GR	1137	8885.8	1137	8935.3	1137	8954.3	1137	8999.6	1137	9015.8
GR	1137	9029.4	1137	9041.5	1137	9061.5	1137	9075.0	1137	9101.1
GR	1137	9121.6	1137	9152.6	1137	9190.6	1137	9205.7	1137	9239.3
GR	1137	9292.3	1137	9302.1	1137	9314.9	1137	9374.8	1137	9394.9
GR	1137	9478.4	1137	9520.7	1137	9615.2	1137	9666.0	1137	9703.0
GR	1137	9750.4	1137	9764.8	1130.0	9788.3	1130.0	9908.4	1133.2	9922.3
GR	1130.0	9938.1	1130.0	10013.2	1130.0	10026.1	1130.0	10055.6	1130.0	10120.9
GR	1130.9	10131.5	1131.9	10156.1	1136.0	10173.4	1137.0	10180.8	1130.4	10207.4
GR	1138.7	10227.7	1137.2	10236.0	1136.3	10321.5	1134.1	10334.8	1133.3	10358.4
GR	1132.5	10362.9	1132.2	10403.1	1133.6	10425.1	1133.8	10683.3	1133.9	10747.7
GR	1132.3	10790.0	1138.8	10814.3	1137.7	10865.9	1137.8	11062.6	1148.0	11086.7
GR	1138.6	11108.9	1138.1	11397.3	1138.1	11667.3	1138.6	11927.3	1138.9	12352.4
GR	1138.2	12639.4	1137.5	12965.5	1137.1	13225.2	1137.0	13271.7	1134.3	13279.9
GR	1134.1	13307.6	1137.0	13316.7	1135.6	13320.9	1136.5	13346.2	1138.0	13614.0
GR	1141.1	13886.5	1140.1	14151.7	1139.5	14364.5	1142.8	14390.0	1143.4	14431.5
GR	1146.2	14445.9	1146.2	14449.6						

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ET	17.910	9.1	7.1				9430	10475	8380	10930
X1	17.910	92	9739.8	10288.0	445	400	474.74			
GR	1142.7	8090.5	1141.3	8143.0	1138	8190.1	1138	8218.5	1138	8252.1
GR	1138	8259.4	1138	8271.3	1138	8281.3	1138	8321.3	1138	8383.4
GR	1138	8397.8	1138	8434.1	1138	8447.6	1138	8505.5	1138	8531.2
GR	1138	8627.3	1138	8633.8	1138	8695.9	1138	8706.9	1138	8725.7
GR	1138	8757.5	1138	8794.2	1138	8817.6	1138	8834.7	1138	8881.8
GR	1138	8934.2	1138	8971.7	1138	9019.6	1138	9126.3	1138	9138.6
GR	1138	9178.2	1138	9200.4	1138	9215.0	1138	9236.3	1138	9251.8
GR	1138	9303.6	1138	9335.4	1138	9459.5	1138	9506.9	1138	9563.0
GR	1138	9588.8	1138	9613.9	1138	9651.2	1138	9669.2	1138	9675.6
GR	1138	9697.5	1138	9721.9	1138	9730.0	1138	9737.0	1138	9739.8
GR	1132.1	9756.6	1130.0	9767.5	1130.0	9813.6	1130.0	9851.0	1130.0	9877.6
GR	1130.0	9890.7	1130.0	9925.5	1130.0	9947.0	1132.0	9960.9	1134.9	10054.9
GR	1130.0	10115.0	1130.0	10125.5	1130.0	10148.0	1130.0	10213.1	1130.0	10218.1
GR	1130.0	10274.1	1133.3	10288.0	1136.7	10514.9	1135.5	10529.0	1136.3	10702.0
GR	1138.2	10713.3	1140.1	10989.1	1139.9	11272.4	1139.5	11528.3	1140.7	11787.1
GR	1140.3	12052.0	1139.8	12327.9	1139.3	12619.3	1139.6	12889.8	1140.0	13151.6
GR	1140.9	13414.7	1137.0	13427.3	1137.4	13451.0	1140.2	13465.2	1139.5	13519.3
GR	1141.0	13784.2	1144.7	14041.7	1146.5	14111.6	1148.2	14118.5	1148.3	14128.2
GR	1146.4	14136.5	1146.7	14146.7						

ET	18.000	9.1	7.1				9485	10555	8450	10900
X1	18.000	93	9655.5	10205.6	435	500	474.83			
GR	1145.8	7808.1	1145.8	7843.1	1148.9	7858.8	1145.3	7871.4	1144.0	7965.6
GR	1144.8	8144.5	1151.0	8159.2	1152.3	8165.0	1146.4	8179.5	1143.3	8193.5
GR	1144.7	8220.3	1146.2	8231.3	1139	8253.1	1139	8269.8	1139	8329.9
GR	1139	8336.8	1139	8350.4	1139	8355.0	1139	8497.9	1139	8542.8
GR	1139	8700.3	1139	8782.9	1139	8960.2	1139	8970.8	1139	9085.3
GR	1139	9120.4	1139	9345.3	1139	9370.9	1139	9510.2	1139	9566.9
GR	1139	9572.4	1139	9601.0	1141.2	9627.9	1142.3	9640.2	1135.2	9655.5
GR	1133.1	9680.5	1131.9	9724.3	1132.3	9743.5	1130.0	9756.5	1130.1	9857.7
GR	1130.0	9926.8	1130.0	9962.5	1134.1	9981.6	1136.7	10205.6	1135.4	10380.5
GR	1131.1	10404.2	1130.0	10434.8	1130.0	10476.4	1135.8	10493.9	1136.5	10688.5
GR	1137.4	10730.0	1139.3	10750.3	1138.0	10829.2	1139.6	10841.2	1142.4	10848.1
GR	1143.1	10867.5	1151.0	10886.7	1151.2	10904.3	1141.0	10945.2	1139.9	10993.3
GR	1140.7	11196.5	1140.3	11289.4	1141.5	11322.4	1145.1	11350.0	1148.6	11369.6
GR	1145.0	11398.2	1139.8	11420.0	1137.9	11423.4	1138.4	11424.3	1136.0	11429.9
GR	1134.1	11439.7	1135.3	11441.9	1136.4	11451.8	1134.7	11456.0	1137.4	11473.2
GR	1137.4	11477.6	1142.2	11499.2	1142.3	11711.7	1142.0	11958.5	1141.8	12161.7
GR	1141.3	12364.9	1141.9	12406.6	1141.2	12415.7	1142.0	12451.9	1141.4	12466.5
GR	1142.0	12500.3	1141.2	12517.3	1142.3	12564.7	1141.6	12788.1	1142.3	13012.0
GR	1143.7	13228.5	1144.6	13431.7	1146.8	13563.2				

ET	18.093	9.1	7.1				9565	10590	8520	10855
X1	18.093	94	9691.9	10231.6	430	525	491			
GR	1148.8	7690.1	1149.8	7697.6	1147.4	7707.5	1145.2	7724.9	1145.8	7760.0
GR	1144.8	7774.6	1146.7	7782.6	1144.7	7789.8	1144.7	7824.6	1146.7	7836.0

Effective Model Output  
AGUAFRIA.OUT

GR	1144.3	7843.0	1145.2	7921.4	1147.0	7952.3	1147.0	7967.7	1148.4	7976.7
GR	1142.0	7988.3	1140	8005.8	1140	8046.2	1140	8099.2	1140	8231.2
GR	1140	8243.8	1140	8263.4	1140	8296.6	1140	8351.5	1140	8534.6
GR	1140	8675.9	1140	8702.3	1140	8711.8	1140	8739.8	1140	8745.0
GR	1140	8761.4	1140	8831.5	1140	8846.8	1140	8872.4	1140	8909.2

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GR	1140	8918.9	1140	8930.5	1140	8971.2	1140	8987.7	1140	8997.2
GR	1140	9145.1	1140	9226.3	1140	9251.1	1140	9267.2	1140	9450.4
GR	1140	9511.4	1140	9550.1	1141.3	9581.7	1143.2	9616.5	1145.1	9624.4
GR	1144.7	9630.2	1142.6	9638.4	1141.6	9652.5	1141.6	9673.9	1138.2	9691.9
GR	1136.6	9729.2	1130.7	9740.8	1130.1	9860.2	1132.9	9901.2	1135.8	9909.0
GR	1133.8	9956.3	1134.4	10003.7	1136.5	10020.1	1135.2	10077.8	1137.8	10231.6
GR	1136.5	10252.3	1136.5	10428.2	1135.9	10458.4	1129.9	10498.6	1132.0	10541.7
GR	1136.6	10565.2	1138.2	10652.9	1144.2	10675.9	1143.9	10714.2	1142.6	10729.3
GR	1143.3	10740.6	1142.9	10782.2	1144.2	10889.1	1143.6	10971.9	1142.2	11030.5
GR	1139.0	11068.2	1139.1	11080.5	1144.5	11129.0	1143.7	11234.4	1143.7	11462.3
GR	1144.0	11688.6	1143.3	11987.1	1143.4	12240.9	1144.1	12443.9	1144.2	12646.9
GR	1144.7	12857.1	1146.0	13105.7	1147.3	13152.9	1150.8	13199.9		

ET	18.182	9.1	7.1			9600	10620	8640	10730	
X1	18.182	92	9738.9	10175.8	410	500	466.97			
GR	1146.9	8030.7	1146.3	8064.4	1144.9	8084.5	1144.3	8086.9	1142.3	8135.6
GR	1147.6	8153.6	1148.1	8157.7	1144.5	8173.3	1144.2	8207.9	1141	8227.6
GR	1141	8239.3	1141	8270.0	1141	8303.7	1141	8365.1	1141	8401.4
GR	1141	8422.3	1141	8460.5	1141	8560.1	1141	8585.2	1141	8608.4
GR	1141	8649.8	1141	8750.8	1141	8813.6	1141	8824.1	1141	8833.3
GR	1141	8892.4	1141	8977.7	1141	8987.4	1141	9044.3	1141	9052.1
GR	1141	9058.3	1141	9178.9	1141	9192.6	1141	9198.7	1141	9209.7
GR	1141	9227.8	1141	9275.9	1141	9320.5	1141	9528.8	1141	9580.3
GR	1141	9588.1	1141	9602.3	1142.5	9609.7	1142.5	9652.9	1140.4	9676.1
GR	1142.4	9696.3	1140.7	9714.5	1137.8	9728.6	1137.1	9738.9	1129.8	9760.5
GR	1129.9	9787.3	1132.4	9842.3	1135.4	9866.6	1133.6	10007.7	1137.2	10021.0
GR	1137.4	10114.6	1136.9	10138.5	1138.3	10175.8	1138.1	10391.0	1138.2	10427.3
GR	1136.9	10469.9	1133.9	10515.6	1134.0	10548.4	1136.2	10588.3	1144.9	10637.5
GR	1145.6	10738.0	1144.0	10865.3	1145.7	10906.7	1140.7	10932.9	1142.7	10966.1
GR	1142.9	10982.5	1144.9	10999.6	1145.5	11041.1	1141.3	11063.9	1145.9	11090.6
GR	1145.6	11134.2	1149.2	11141.9	1144.2	11168.0	1142.5	11172.3	1143.8	11182.2
GR	1143.9	11189.4	1143.1	11215.6	1145.2	11258.6	1145.9	11319.4	1145.3	11577.6
GR	1146.0	11826.5	1145.2	11935.3	1145.3	12183.1	1146.1	12398.0	1146.7	12537.2
GR	1151.5	12597.1	1151.8	12636.1						

ET	18.275	9.1	7.1			9570	10670	8740	10715	
X1	18.275	92	9752.1	10210.5	450	515	491.28			
GR	1143.5	8008.5	1138.7	8023.5	1140.7	8037.9	1138.5	8046.9	1138.0	8261.2
GR	1137.8	8312.7	1136.6	8325.4	1137.3	8372.6	1137.4	8512.4	1139.6	8516.3
GR	1139.8	8520.2	1138.5	8524.5	1139.6	8555.1	1140.4	8562.2	1137.8	8568.8
GR	1138.0	8602.0	1142.3	8636.5	1143.8	8662.1	1149.7	8694.9	1150.4	8704.1
GR	1148.8	8717.2	1149.0	8724.0	1151.0	8737.9	1149.3	8749.1	1142	8787.2
GR	1142	8803.8	1142	8809.4	1142	8848.8	1142	8871.5	1142	8880.5
GR	1142	8891.0	1142	8999.9	1142	9010.1	1142	9015.7	1142	9188.4
GR	1142	9235.9	1142	9293.2	1142	9329.0	1142	9407.9	1142	9476.4
GR	1142	9483.7	1142	9502.0	1142	9506.1	1142	9515.3	1142.6	9521.5
GR	1139.8	9534.5	1139.3	9579.9	1140.1	9637.4	1141.2	9662.8	1141.7	9699.4
GR	1139.5	9752.1	1130.1	9787.5	1134.1	9819.9	1134.1	9834.1	1138.9	9863.8
GR	1137.4	9948.0	1135.1	9965.1	1134.3	10061.6	1136.5	10084.7	1137.3	10108.8
GR	1136.1	10140.2	1138.4	10151.1	1140.1	10210.5	1139.6	10414.7	1138.8	10516.9
GR	1137.7	10554.5	1137.1	10611.8	1137.6	10622.8	1139.7	10635.4	1140.1	10643.9
GR	1146.7	10661.8	1146.0	10695.0	1143.3	10731.8	1144.1	10758.2	1146.7	10782.6
GR	1146.7	10889.1	1146.2	10898.5	1146.9	10915.6	1145.4	10956.8	1145.8	10994.8
GR	1143.8	11004.1	1142.2	11023.1	1144.1	11057.2	1143.6	11063.0	1146.8	11096.6

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GR	1146.3	11118.3	1147.3	11366.8	1148.0	11580.8	1148.3	11795.4	1148.6	11993.8
GR	1149.5	12044.0	1149.4	12073.0						
ET	18.369	9.1	7.1			9550	10640	8820	10759.0	
X1	18.369	94	9783.5	10147.9	435	540	498.93			
GR	1149.0	7942.0	1149.3	7944.0	1139.8	7980.6	1140.8	7988.6	1143.4	7998.3
GR	1139.0	8014.0	1139.2	8103.9	1138.8	8120.9	1140.2	8130.5	1140.2	8162.0
GR	1139.9	8164.1	1139.6	8210.7	1139.2	8223.3	1140.0	8307.6	1139.8	8313.7
GR	1138.5	8323.6	1138.5	8375.8	1139.8	8382.1	1139.9	8400.2	1139.3	8412.6
GR	1139.7	8458.9	1139.5	8462.8	1140.8	8470.3	1140.2	8473.5	1137.9	8478.7
GR	1135.7	8482.0	1135.6	8486.5	1139.4	8496.2	1142.6	8505.1	1147.7	8518.1
GR	1144.8	8573.7	1146.4	8599.3	1148.1	8605.4	1124.1	8618.3	1124.8	8633.9
GR	1143	8651.5	1143	8692.8	1143	8702.4	1143	8707.0	1143	8717.8
GR	1143	8721.7	1143	8726.6	1143	8751.0	1143	8795.0	1143	8822.0
GR	1143	8869.4	1143	8918.2	1143	8930.6	1143	8941.2	1143	9006.7
GR	1143	9050.7	1143	9098.3	1143	9132.5	1143	9170.1	1143	9319.3
GR	1143	9395.6	1143	9429.8	1143	9466.8	1143	9512.5	1143	9527.1
GR	1143	9545.1	1143	9565.0	1143.0	9596.8	1144.0	9650.7	1144.4	9732.9
GR	1144.9	9761.2	1144.7	9783.5	1139.1	9802.6	1138.7	9814.1	1134.7	9833.2
GR	1134.4	9859.0	1138.0	9886.7	1140.1	9941.3	1141.0	9982.2	1141.7	10147.9
GR	1141.9	10184.8	1141.7	10260.0	1140.9	10327.7	1139.5	10338.1	1139.2	10348.8
GR	1136.5	10361.4	1137.8	10368.6	1138.7	10378.9	1139.6	10394.4	1141.0	10534.6
GR	1140.5	10560.7	1139.5	10589.9	1139.1	10613.8	1140.9	10623.0	1146.9	10648.3
GR	1148.5	10652.3	1148.1	10676.8	1148.3	10746.1	1148.6	10759.0		

ET	18.464	9.1	7.1			9550	10530	8900	10590.4	
X1	18.464	93	9755.6	10168.0	435	555	499.78			
GR	1149.7	7867.9	1149.9	7876.9	1148.3	7881.4	1137.2	7919.1	1137.1	8063.3

Effective Model Output  
AGUAFRIA.OUT

GR	1137.5	8118.2	1138.8	8127.8	1138.7	8134.8	1137.7	8140.3	1137.3	8169.1
GR	1137.1	8233.7	1139.8	8243.6	1139.5	8245.7	1138.9	8271.9	1138.2	8284.5
GR	1137.0	8295.0	1137.5	8332.9	1139.4	8338.9	1140.6	8345.8	1141.0	8352.2
GR	1143.6	8365.9	1146.8	8380.5	1145.7	8387.1	1145.4	8400.5	1144.2	8426.8
GR	1143.5	8437.5	1149.7	8454.6	1144	8468.9	1144	8483.2	1144	8486.7
GR	1144	8499.8	1144	8533.7	1144	8544.3	1144	8551.8	1144	8561.7
GR	1144	8569.4	1144	8583.3	1144	8593.6	1144	8713.6	1144	8760.1
GR	1144	8853.3	1144	8906.4	1144	8914.0	1144	8915.9	1144	8953.7
GR	1144	8974.5	1144	9028.1	1144	9094.7	1144	9160.8	1144	9188.9
GR	1144	9212.4	1144	9248.1	1144	9296.0	1144	9372.3	1144	9394.6
GR	1144	9433.3	1144	9491.5	1144	9506.9	1144	9530.6	1144	9552.7
GR	1144	9577.5	1144	9596.5	1145.1	9638.3	1146.1	9671.2	1146.4	9742.0
GR	1146.2	9755.6	1143.6	9765.9	1143.3	9788.8	1143.9	9830.2	1144.2	9836.3
GR	1143.3	9876.4	1141.2	9888.6	1140.7	9924.3	1138.5	9939.8	1140.7	9974.1
GR	1141.2	9995.4	1141.0	10006.6	1141.8	10046.4	1141.9	10092.3	1143.4	10168.0
GR	1142.8	10314.4	1141.6	10355.5	1139.6	10361.3	1140.2	10421.2	1139.6	10440.8
GR	1141.8	10455.6	1143.6	10509.8	1145.5	10528.7	1152.2	10554.1	1153.1	10562.8
GR	1154.5	10572.8	1154.5	10582.9	1155.1	10590.4				

ET	18.558	9.1	7.1				9520	10465	9000	10466.5
X1	18.558	76	9750.3	10300.8	450	525	500.28			
GR	1150.8	7814.7	1150	7823.8	1146.4	7831.8	1140	7861	1137.1	7878
GR	1137.5	7956.9	1136.5	7990	1137.2	8067.2	1137.8	8076.5	1137.6	8103.3
GR	1138.2	8137.5	1137.6	8201.5	1137.9	8209.8	1147.4	8242.7	1147.4	8257.2
GR	1148.2	8268	1148	8289.9	1146.3	8302.9	1146	8312.1	1146	8321.4
GR	1146	8324.1	1146	8329.4	1146	8337.6	1146	8383.8	1146	8392.5

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GR	1146	8407.9	1146	8418.3	1146	8430.4	1146	8431.6	1146	8439.9
GR	1146	8473	1146	8489.5	1146	8495.2	1146	8508.2	1146	8518.8
GR	1146	8620.3	1146	8677.5	1146	8777.8	1146	8806.1	1146	8820.2
GR	1146	8830.4	1146	8935.5	1146	8988	1146	9040.5	1146	9093
GR	1146	9145.6	1146	9264.5	1146	9302.4	1146	9361.1	1146	9408.2
GR	1146	9472.1	1146	9513.3	1146	9540.6	1146	9553.5	1146	9571
GR	1146	9595.1	1146	9622.4	1146.1	9637.5	1146.2	9671	1147.1	9723.4
GR	1146.9	9750.3	1145.9	9790	1145	9909.2	1143.6	9986	1143.3	10038.5
GR	1144.2	10110.3	1142.5	10124	1142.1	10143.6	1142.7	10248.7	1144.1	10300.8
GR	1143.8	10322.4	1142.1	10332.4	1141.4	10353.7	1141.3	10406.3	1140.6	10441.1
GR	1157.8	10466.5								

ET	18.653	9.1	7.1				9470	10440	9090	10468.3
X1	18.653	92	9754.6	10362.3	445	535	502.17			
GR	1152.7	7788.1	1142.5	7821.1	1136.7	7843.2	1138.1	7925.6	1139.4	7934
GR	1139.3	7940.8	1138.2	7949.5	1138.6	7953.2	1137.4	8018.4	1139.5	8110.1
GR	1152.7	8131.9	1150.9	8141.6	1150	8205.8	1165.8	8224.5	1156.7	8239.6
GR	1157.4	8240.1	1145.8	8248	1134.5	8257.3	1119.3	8268.7	1119.1	8298.1
GR	1124.4	8316.1	1124.6	8349.2	1120.2	8358	1118.1	8363.8	1117.5	8377.4
GR	1118	8474.7	1117.6	8517.7	1120.6	8560.2	1121.8	8569.2	1123.6	8612.5
GR	1123.7	8630.8	1121	8646.2	1121.4	8665.3	1121.1	8677.7	1119.3	8683.2
GR	1116.8	8687.6	1113.6	8723.9	1114	8741.6	1109.8	8749.7	1106.3	8754.7
GR	1108.2	8788.6	1111.2	8799	1114.1	8845.5	1114.6	8871.4	1120.9	8920.8
GR	1121.4	8938.3	1123.7	8982	1148	9003.7	1148	9032.6	1148	9085.3
GR	1148	9097.6	1148	9104.7	1148	9134.9	1148	9138.8	1150.2	9239.2
GR	1152.7	9263.3	1154.1	9284.4	1155.8	9297	1148	9344.9	1148	9350.6
GR	1148	9368	1148	9424	1148	9440.5	1148	9483.1	1148	9490.4
GR	1148	9502.1	1148	9509.5	1148	9515.6	1148	9520.7	1148	9526.5
GR	1148	9531.1	1148	9535.5	1148	9551.6	1148	9556.7	1148	9566.2
GR	1148	9569.8	1148.7	9576.4	1152.5	9586.6	1145.2	9602.8	1144.9	9626.6
GR	1147	9652.5	1147.5	9754.6	1146.6	9857.6	1146.4	9960.7	1145.9	10063.8
GR	1143	10142.8	1143.5	10166.9	1143.1	10270	1144	10362.3	1142.7	10379.1
GR	1142.8	10422.7	1164.2	10468.3						

ET	18.748	9.1	7.1				9400	10350	9150	10362.5
X1	18.748	93	9818.6	10349.3	440	530	501.11			
GR	1153.2	8076.4	1154.2	8080.7	1152.8	8089.6	1152.6	8099.1	1149.9	8141.3
GR	1152.5	8149.0	1117.2	8173.6	1117.1	8195.2	1117.6	8246.0	1119.2	8296.7
GR	1122.0	8310.0	1121.3	8321.7	1121.5	8335.8	1121.2	8347.4	1117.7	8397.9
GR	1118.0	8451.7	1118.6	8461.2	1119.2	8488.2	1118.9	8503.3	1119.6	8529.2
GR	1119.3	8544.5	1117.4	8553.4	1117.6	8560.1	1121.7	8574.3	1122.6	8578.7
GR	1122.5	8582.7	1124.0	8595.0	1123.3	8600.3	1120.5	8611.7	1091.5	8627.7
GR	1091.7	8629.5	1091.9	8649.0	1092.1	8652.4	1092.6	8698.3	1092.8	8702.5
GR	1096.7	8743.7	1097.7	8753.3	1099.3	8804.0	1098.1	8834.2	1097.7	8854.6
GR	1104.7	8871.0	1105.3	8891.4	1105.3	8905.5	1103.2	8961.3	1100.5	9003.5
GR	1100.4	9006.9	1103.7	9020.8	1102.9	9021.4	1118.9	9030.6	1128.4	9036.5
GR	1150.6	9049.9	1150.1	9091.2	1150.1	9128.7	1150.3	9135.1	1150.6	9195.5
GR	1150.8	9209.8	1150.9	9279.0	1150.2	9330.2	1155.2	9348.4	1149.6	9361.0
GR	1148.6	9388.8	1150.6	9397.0	1149.9	9419.8	1150.9	9425.1	1151.5	9441.2
GR	1149.5	9451.0	1150.1	9463.5	1149.3	9514.1	1149.7	9521.4	1150.4	9564.9
GR	1150.3	9615.7	1149.1	9666.4	1148.3	9717.1	1148.1	9746.4	1147.8	9768.0
GR	1148.0	9818.6	1147.3	9870.4	1147.4	9920.0	1147.7	9970.8	1147.4	10021.5
GR	1146.3	10072.2	1146.0	10106.2	1145.4	10125.3	1145.9	10129.2	1144.0	10150.8
GR	1143.7	10154.8	1144.4	10236.5	1144.4	10275.2	1143.9	10297.8	1143.5	10325.9

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GR	1143.5	10337.7	1153.9	10349.3	1165.9	10362.5				
ET	18.839	9.1	7.1				9350	10350	9250	10375.0
X1	18.839	94	9787.8	10337.0	430	500	480.48			
GR	1159.3	8035.3	1160.1	8038.6	1154.0	8081.5	1152.0	8142.0	1151.8	8165.7
GR	1145.2	8172.5	1142.4	8175.7	1135.6	8182.7	1126.5	8192.5	1119.8	8199.1
GR	1119.8	8265.6	1136.1	8284.0	1141.6	8289.5	1151.1	8298.1	1150.6	8339.2

Effective Model Output  
AGUAFRIA.OUT

GR	1152.4	8343.3	1147.4	8393.6	1149.7	8415.2	1150.8	8439.6	1151.2	8443.4
GR	1149.9	8483.6	1144.3	8492.4	1143.1	8504.6	1142.9	8518.4	1143.5	8526.7
GR	1143.5	8539.0	1141.4	8542.8	1138.4	8549.1	1139.2	8560.7	1139.1	8569.3
GR	1143.3	8578.2	1146.8	8592.3	1149.9	8594.8	1150.7	8597.1	1150.7	8600.4
GR	1148.7	8619.6	1148.7	8627.7	1149.8	8634.1	1151.3	8649.9	1151.6	8695.7
GR	1150.9	8746.0	1150.6	8796.3	1149.1	8837.3	1149.4	8854.9	1151.4	8869.2
GR	1152.3	8960.5	1152.0	8966.7	1148.3	9004.8	1150.0	9017.9	1151.0	9023.1
GR	1147.6	9041.7	1147.0	9087.8	1149.7	9104.9	1149.5	9108.5	1149.7	9149.0
GR	1150.7	9199.0	1151.4	9285.5	1151.8	9359.0	1154.0	9367.0	1154.7	9374.4
GR	1151.2	9388.1	1151.3	9420.2	1150.0	9435.1	1149.5	9446.3	1151.6	9476.4
GR	1150.9	9511.1	1150.8	9556.2	1151.8	9665.4	1152.1	9705.2	1152.8	9716.6
GR	1148.6	9747.1	1147.5	9774.5	1149.2	9787.8	1147.8	9825.0	1145.3	9845.2
GR	1145.1	9901.6	1147.0	9913.2	1146.0	9962.2	1145.0	10056.4	1144.6	10160.9
GR	1145.3	10164.0	1146.7	10168.0	1146.8	10189.4	1146.1	10196.0	1145.1	10199.7
GR	1144.9	10310.7	1146.1	10321.9	1147.1	10325.1	1147.5	10331.4	1150.1	10337.0
GR	1152.2	10340.5	1159.1	10354.4	1164.3	10361.8	1164.4	10375.0		

ET	18.937	9.1	9.1						9364.7	10482.5
X1	18.937	95	9815.5	10231.0	430	555	512.97			
GR	1161.8	8024.7	1161.2	8026.3	1160.4	8032.1	1159.5	8047.9	1155.6	8082.9
GR	1155.9	8118.4	1155.0	8186.4	1155.1	8192.1	1156.0	8205.6	1156.0	8219.6
GR	1156.8	8243.0	1156.6	8261.0	1157.1	8268.7	1157.6	8271.4	1155.1	8284.1
GR	1156.2	8298.0	1155.4	8325.2	1154.3	8337.3	1153.3	8365.5	1152.9	8370.4
GR	1152.7	8380.7	1150.5	8395.2	1149.1	8406.5	1149.1	8418.8	1154.0	8427.7
GR	1151.9	8431.7	1148.0	8441.5	1146.8	8451.9	1148.7	8463.0	1148.9	8475.9
GR	1148.6	8482.2	1149.4	8487.4	1149.1	8533.5	1149.9	8583.3	1151.7	8686.4
GR	1152.3	8707.2	1152.0	8738.4	1152.5	8758.9	1152.4	8789.2	1152.6	8808.0
GR	1152.3	8841.4	1152.5	8860.1	1152.5	8895.6	1153.3	8980.6	1154.9	8989.9
GR	1159.9	9012.6	1160.9	9036.5	1161.9	9057.0	1160.6	9062.3	1155.8	9085.2
GR	1153.4	9101.1	1153.2	9147.2	1153.5	9182.3	1153.2	9198.4	1153.2	9235.3
GR	1152.2	9254.1	1151.6	9294.7	1151.3	9304.0	1151.3	9322.0	1150.5	9331.3
GR	1153.7	9348.4	1155.3	9354.2	1155.6	9364.7	1152.1	9388.2	1149.5	9396.1
GR	1148.9	9420.0	1149.3	9445.4	1149.3	9472.0	1148.2	9479.5	1148.5	9558.4
GR	1148.8	9582.4	1148.7	9607.6	1149.0	9709.9	1148.7	9782.5	1149.2	9815.5
GR	1147.7	9819.0	1146.8	9822.7	1147.0	9869.6	1148.6	9884.1	1148.9	9932.5
GR	1148.3	9978.5	1147.9	9982.5	1147.1	10063.2	1148.0	10070.6	1147.9	10086.8
GR	1148.9	10108.0	1148.7	10182.6	1149.7	10231.0	1148.7	10259.5	1147.4	10277.4
GR	1146.3	10284.7	1147.2	10329.5	1145.7	10418.6	1147.1	10445.9	1164.7	10482.5

NC				0.3	0.5					
ET	18.962	9.11	9.11						9391.2	10535.6

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\*\*\*\*\* BELL ROAD \*\*\*\*\*  
\*\*\*\*\* LOW CHORD = 1160.5 \*\*\*\*\*

X1	18.962	74	9840	10223.7	110	145	132			
GR	1162.0	7916.7	1162.2	7934.1	1162.0	7947.4	1162.3	7963.7	1162.3	8037.4
GR	1162.5	8045.6	1162.1	8054.3	1162.2	8112.7	1162.3	8118.1	1162.7	8160.7
GR	1162.6	8162.2	1162.8	8185.1	1163.0	8206.7	1163.0	8235.2	1163.4	8289.8
GR	1163.4	8330.1	1163.8	8411.9	1163.8	8427.7	1163.5	8463.4	1156.6	8465.2
GR	1147.5	8466.9	1147.8	8479.5	1147.5	8495.9	1158.1	8497.9	1163.6	8500.4
GR	1163.5	8506.8	1163.7	8550.6	1163.7	8564.1	1163.4	8612.3	1163.2	8634.6
GR	1163.1	8674.2	1162.7	8708.9	1163.1	8730.2	1162.7	8753	1162.3	8791.3
GR	1162.1	8805.5	1162.3	8856.6	1162.1	8905.9	1161.9	8938.3	1162.0	8955.7
GR	1162.2	8966.6	1162.3	9034.1	1162.0	9067.5	1162.5	9102.2	1162.6	9121.3
GR	1162.9	9141.9	1165.0	9241.5	1165.6	9276.3	1165.9	9301.3	1165.8	9317.4
GR	1165.8	9320.2	1168.2	9391.2	1160.1	9405.6	1149.0	9435	1150.4	9840
GR	1147.3	9848.8	1147.4	9882.3	1149.1	9948	1148.1	10060.6	1149.8	10071
GR	1150.1	10072.1	1149.1	10223.7	1148.5	10226.4	1146.2	10251.3	1146.8	10260.2
GR	1148.4	10281.3	1148.5	10286.7	1147.0	10415.8	1148.2	10465.7	1170.7	10522.1
GR	1170.9	10523.2	1170.1	10524.3	1169.5	10531.5	1169.5	10535.6		

ET	18.978	9.11	9.11						9397.3	10543.5
SB	1.05	1.56	2.7	0	1050	60	16107	2.5	1149.5	1149.5
X1	18.978	53	9870.6	10257.7	90	90	86.29			
X2	0	0	1	1166.2	1168.4	0	0	1.33	0	0
BT	14	9390.0	1168.4	1168.4	9402.5	1168.8	1168.8	9402.6	1171.3	1160.5
BT	9525.0	1173.2	1162.4	9650.0	1174.7	1163.9	9777.0	1175.9	1165.1	9903.0
BT	1176.6	1165.8	10029.0	1177.0	1166.2	10155.0	1177.0	1166.2	10280.0	1176.6
BT	1165.8	10406.0	1175.9	1165.1	10531.9	1174.7	1163.9	10532.0	1172.0	1172.0
ET	10545	1171.9	1171.9							
GR	1162.4	7920.9	1162.3	7952.9	1162.3	8003.4	1162.5	8018.9	1162.6	8070.1
GR	1162.9	8114.9	1162.9	8133.8	1162.9	8169.5	1163.0	8201.4	1163.1	8247
GR	1163.3	8281.4	1163.8	8310.2	1163.8	8378	1160.6	8416.4	1160.8	8469.8
GR	1148.7	8472.5	1148.5	8485.4	1148.5	8502.6	1163.6	8504.7	1163.6	8517.3
GR	1163.6	8610.6	1163.6	8635.3	1163.4	8755	1162.7	8939.3	1162.7	8975.5
GR	1163.3	9112.9	1165.1	9251.4	1166.2	9338	1169.5	9397.3	1164.0	9402.3
GR	1162.2	9407.2	1149.8	9439.6	1149.8	9450	1151.2	9862.7	1151.2	9870.6
GR	1147.6	9884.8	1147.8	9913.2	1150.0	9933.9	1150.0	9936.2	1149.1	10034.2
GR	1149.0	10035.9	1150.2	10046.1	1150.3	10050.4	1149.5	10180.4	1147.8	10250.4
GR	1147.8	10257.7	1147.5	10439.1	1147.5	10447.1	1148.6	10476.7	1148.9	10477.8
GR	1169.5	10525.1	1170.5	10527.8	1170.0	10543.5				

NC	.045	.045	.035							
ET	19.066	9.1	7.1				9350	10778	9302.8	10778.8
X1	19.066	93	9885.7	10349.1	395	490	465			
GR	1163.5	8083.9	1164.7	8087.8	1162.4	8094.0	1156.1	8106.9	1156.7	8154.1
GR	1156.9	8196.9	1157.7	8246.2	1158.0	8347.1	1159.1	8361.4	1159.7	8398.1
GR	1161.6	8466.8	1162.4	8504.6	1162.6	8548.1	1163.1	8598.3	1162.9	8698.6
GR	1163.1	8799.0	1162.5	8899.3	1161.5	9007.9	1159.8	9077.7	1159.1	9094.7
GR	1159.3	9118.3	1159.0	9128.2	1156.9	9150.2	1153.4	9222.0	1153.9	9233.7

Effective Model Output  
AGUAFRIA.OUT

GR	1157.2	9242.5	1163.1	9259.9	1165.5	9268.0	1167.6	9277.0	1166.7	9289.7
GR	1166.5	9297.0	1167.0	9302.8	1166.8	9310.8	1167.3	9320.5	1160.4	9342.3
GR	1157.9	9349.5	1154.8	9366.9	1151.2	9379.2	1150.8	9401.6	1150.6	9451.2
GR	1151.3	9476.5	1153.8	9520.5	1152.9	9546.9	1152.3	9554.2	1152.0	9579.5
GR	1152.2	9649.0	1153.4	9673.0	1153.7	9700.5	1153.2	9744.0	1153.5	9777.6

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GR	1154.7	9817.4	1154.3	9830.0	1155.5	9870.1	1155.0	9885.7	1149.8	9901.2
GR	1150.3	9953.8	1150.8	9978.4	1150.6	9989.3	1151.4	10002.8	1151.6	10058.7
GR	1151.3	10080.0	1149.7	10105.8	1149.9	10115.9	1151.6	10129.9	1151.5	10161.9
GR	1150.7	10188.8	1150.6	10203.9	1150.8	10206.7	1151.3	10246.3	1149.4	10261.9
GR	1151.5	10282.4	1149.8	10327.8	1154.3	10349.1	1154.6	10379.5	1155.9	10398.0
GR	1156.1	10456.1	1154.5	10497.0	1154.0	10504.9	1153.0	10536.3	1152.0	10555.2
GR	1152.2	10557.5	1149.4	10595.4	1149.5	10626.8	1152.2	10633.3	1154.3	10637.1
GR	1151.6	10657.6	1150.2	10684.7	1153.5	10704.5	1156.5	10711.0	1168.4	10729.4
GR	1168.3	10747.9	1169.2	10755.7	1169.4	10778.8				

NC				0.1	0.3					
ET	19.162	9.1	7.1				9240	10956	9000	10956
X1	19.162	94	9804.0	10261.9	480	500	505.28			
GR	1166.1	8211.4	1165.8	8213.8	1163.7	8218.0	1158.4	8231.9	1158.9	8320.7
GR	1160.2	8421.2	1160.1	8467.0	1156.5	8485.3	1156.1	8521.7	1155.1	8571.2
GR	1155.4	8574.4	1155.1	8641.5	1157.1	8652.8	1156.7	8722.8	1157.1	8773.0
GR	1156.8	8823.3	1157.0	8881.6	1157.3	8891.5	1158.6	8910.6	1158.9	8946.0
GR	1158.3	8991.7	1158.5	9064.0	1158.0	9070.5	1155.8	9089.4	1155.3	9128.3
GR	1154.4	9174.9	1154.8	9176.1	1157.4	9196.0	1157.0	9231.8	1157.3	9275.5
GR	1157.0	9336.3	1154.5	9390.2	1153.9	9425.6	1153.8	9468.0	1156.0	9495.2
GR	1155.9	9505.3	1156.8	9535.3	1156.0	9573.9	1157.2	9627.3	1157.9	9735.0
GR	1157.9	9777.8	1158.3	9804.0	1152.1	9818.9	1152.5	9859.0	1152.6	9902.6
GR	1152.9	9928.8	1153.4	9942.5	1151.7	9957.5	1151.3	9986.8	1154.1	10009.4
GR	1153.9	10017.1	1152.3	10038.7	1152.8	10048.3	1153.9	10059.7	1154.6	10079.5
GR	1154.1	10129.9	1150.9	10161.3	1151.0	10181.7	1152.6	10227.1	1152.5	10245.3
GR	1155.1	10261.9	1156.7	10274.6	1156.9	10315.4	1155.3	10329.7	1154.6	10344.2
GR	1153.3	10356.1	1151.3	10387.4	1151.9	10401.5	1152.8	10417.7	1153.7	10452.5
GR	1153.8	10467.7	1154.2	10476.7	1155.1	10516.7	1157.1	10547.7	1157.6	10570.0
GR	1154.7	10604.6	1155.8	10622.6	1156.1	10630.7	1156.0	10657.9	1155.3	10680.3
GR	1154.3	10703.3	1153.4	10732.9	1152.8	10779.1	1152.1	10797.1	1151.2	10806.2
GR	1154.6	10825.1	1154.9	10837.3	1154.9	10862.8	1153.9	10877.2	1172.0	10904.8
GR	1172.1	10912.5	1172.9	10937.3	1173.9	10948.4	1174.1	10956.0		

ET	19.256	9.1	7.1				9175	11047	8680	11047
X1	19.256	94	9786.3	10081.6	470	480	496.96			
GR	1166.7	8382.4	1166.8	8388.5	1167.4	8392.2	1161.6	8407.6	1161.4	8513.9
GR	1161.3	8527.8	1159.0	8552.1	1157.2	8576.2	1157.9	8603.2	1157.5	8642.7
GR	1157.9	8646.2	1158.4	8655.2	1158.4	8661.0	1158.0	8671.4	1158.3	8704.3
GR	1158.1	8707.2	1159.3	8720.8	1157.7	8742.1	1156.8	8786.5	1158.2	8792.6
GR	1158.5	8852.6	1158.5	8870.4	1159.7	8902.9	1159.9	8974.4	1161.3	8989.8
GR	1159.0	9008.6	1159.7	9053.8	1159.5	9104.0	1159.0	9137.0	1159.8	9145.1
GR	1160.1	9162.8	1159.5	9176.2	1156.8	9204.6	1156.6	9241.4	1160.4	9267.4
GR	1160.2	9355.4	1159.8	9375.3	1158.1	9394.5	1156.8	9454.4	1157.5	9490.0
GR	1155.7	9514.0	1154.9	9539.7	1158.0	9556.6	1158.9	9564.0	1158.1	9592.7
GR	1157.8	9606.8	1158.1	9636.5	1158.7	9657.1	1158.3	9786.3	1154.2	9796.2
GR	1154.9	9820.5	1155.0	9858.2	1154.7	9902.3	1154.5	9913.0	1154.0	9918.2
GR	1154.1	9949.5	1153.8	10005.9	1153.6	10013.1	1155.1	10025.9	1155.0	10047.5
GR	1154.7	10054.8	1155.6	10059.4	1161.0	10081.6	1162.4	10114.0	1162.2	10122.4
GR	1160.6	10159.9	1160.5	10193.0	1159.8	10216.9	1159.6	10245.1	1160.4	10260.5
GR	1160.2	10310.7	1159.6	10361.0	1160.3	10416.0	1159.7	10512.3	1160.2	10562.1
GR	1159.2	10630.0	1160.5	10661.0	1160.6	10679.5	1159.6	10701.6	1158.2	10712.5
GR	1159.1	10729.5	1157.3	10759.5	1158.6	10778.7	1158.1	10794.0	1155.3	10811.1
GR	1155.6	10819.6	1155.6	10845.4	1155.3	10859.0	1155.7	10914.1	1154.6	10964.4
GR	1155.0	10999.9	1156.6	11012.9	1158.1	11019.1	1169.2	11047.2		

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ET	19.352		7.1				9150	11292		
X1	19.352	96	9743.4	10064.3	495	480	509.58			
GR	1168.4	8581.6	1168.5	8586.6	1169.3	8589.5	1168.6	8590.8	1166.3	8597.0
GR	1162.9	8605.5	1162.2	8642.1	1162.1	8697.5	1163.0	8716.2	1159.9	8734.1
GR	1158.7	8747.1	1159.1	8760.0	1158.8	8796.4	1159.7	8838.5	1159.7	8846.7
GR	1158.9	8878.9	1159.8	8896.9	1159.2	8947.1	1159.7	8987.5	1159.7	8997.4
GR	1159.0	9002.1	1158.8	9029.5	1159.9	9036.3	1160.1	9049.9	1160.8	9097.8
GR	1160.9	9113.6	1161.4	9148.0	1161.1	9195.5	1160.2	9248.5	1160.4	9255.1
GR	1159.3	9264.2	1159.2	9281.2	1158.2	9293.3	1161.3	9347.8	1160.0	9399.1
GR	1159.7	9449.4	1158.8	9499.6	1158.9	9549.8	1159.7	9584.8	1161.3	9608.5
GR	1161.4	9650.3	1161.0	9700.5	1160.2	9743.4	1157.3	9755.0	1154.6	9786.1
GR	1154.8	9806.8	1155.1	9851.2	1155.2	9895.0	1155.3	9951.8	1157.1	9979.7
GR	1157.4	10001.9	1156.9	10037.2	1162.1	10064.3	1162.2	10102.3	1161.8	10152.5
GR	1162.1	10202.8	1162.4	10218.4	1162.0	10234.4	1161.0	10247.2	1161.0	10250.6
GR	1161.1	10303.2	1159.9	10353.6	1160.5	10397.9	1161.5	10455.2	1161.5	10475.9
GR	1160.7	10515.7	1162.0	10541.7	1160.9	10581.0	1161.4	10604.6	1162.0	10654.8
GR	1162.3	10672.7	1162.4	10705.0	1161.0	10731.3	1162.6	10761.3	1162.7	10767.9
GR	1161.9	10794.6	1161.5	10804.1	1160.5	10837.5	1160.4	10849.0	1159.3	10857.5
GR	1158.7	10865.2	1159.0	10905.9	1158.5	10956.5	1158.9	10963.0	1159.0	11005.4
GR	1159.1	11010.7	1158.8	11053.5	1156.5	11066.6	1156.4	11106.8	1155.1	11158.0
GR	1154.8	11166.1	1161.9	11182.2	1162.7	11205.8	1162.9	11227.2	1159.8	11262.0
GR	1166.0	11320.5								

ET	19.446	9.1	7.1				9170	11361	8878.7	11361.8
X1	19.446	91	9592.8	10078.6	525	450	496.07			
GR	1169.9	8715.4	1169.9	8718.3	1171.0	8722.0	1169.3	8727.7	1164.2	8740.0
GR	1163.7	8777.7	1164.7	8830.3	1165.4	8878.7	1164.8	8894.2	1159.3	8920.9

Effective Model Output  
AGUAFRIA.OUT

GR	1159.0	8926.5	1159.4	8963.4	1159.6	8989.2	1160.9	9002.5	1161.2	9027.9
GR	1162.1	9078.0	1162.2	9117.5	1162.2	9157.2	1160.1	9174.8	1159.7	9206.1
GR	1161.0	9215.2	1160.7	9244.8	1160.8	9258.0	1161.2	9278.1	1161.2	9328.2
GR	1161.1	9378.2	1160.9	9407.9	1161.7	9419.9	1160.6	9446.9	1160.0	9482.0
GR	1160.5	9527.6	1161.3	9539.0	1162.7	9566.6	1162.8	9571.4	1161.1	9578.3
GR	1160.3	9587.4	1159.0	9592.8	1155.9	9603.1	1156.0	9643.3	1156.2	9691.2
GR	1157.5	9712.8	1158.0	9725.2	1157.8	9765.9	1157.9	9790.0	1158.4	9878.6
GR	1158.7	9911.1	1159.4	9930.4	1158.7	9978.7	1159.4	10028.7	1159.0	10056.2
GR	1162.8	10078.6	1163.7	10128.8	1164.2	10178.9	1164.0	10222.3	1163.9	10228.9
GR	1163.8	10279.0	1163.8	10318.4	1163.8	10329.0	1163.3	10356.3	1161.4	10383.8
GR	1163.0	10429.1	1162.8	10479.2	1162.5	10529.2	1163.1	10579.3	1163.2	10629.3
GR	1163.6	10702.6	1163.1	10750.7	1163.2	10829.5	1163.3	10879.5	1163.0	10915.1
GR	1162.7	10959.3	1162.4	10982.8	1159.7	11003.4	1159.3	11029.6	1159.3	11036.6
GR	1159.7	11075.7	1159.2	11115.4	1156.7	11130.8	1156.9	11158.2	1159.1	11173.3
GR	1159.4	11179.5	1158.2	11202.1	1157.6	11233.6	1157.2	11242.5	1157.9	11279.9
GR	1157.7	11282.7	1155.7	11323.5	1157.1	11328.7	1175.6	11349.4	1179.6	11355.8
GR	1180.1	11361.8								

ET	19.542		7.1				9235	11478		
X1	19.542	95	9804.5	10136.3	520	480	506.41			
GR	1171.9	8788.6	1172.7	8792.4	1166.8	8806.0	1167.0	8857.3	1167.7	8871.3
GR	1162.4	8896.7	1162.7	8923.0	1160.8	8934.2	1160.8	8956.3	1162.0	8967.4
GR	1162.8	9002.9	1163.2	9010.1	1163.0	9017.5	1162.6	9041.8	1163.5	9109.3
GR	1164.3	9128.5	1163.2	9160.9	1162.9	9188.7	1163.0	9200.2	1162.6	9247.7
GR	1162.3	9255.6	1163.5	9281.5	1161.6	9292.4	1161.5	9309.4	1162.4	9391.6
GR	1163.6	9419.0	1162.8	9467.1	1162.1	9488.5	1160.1	9512.2	1159.6	9538.6

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GR	1164.2	9551.7	1163.3	9591.7	1160.9	9642.5	1161.1	9643.3	1162.1	9688.2
GR	1162.3	9691.2	1161.3	9707.2	1159.0	9718.7	1160.3	9731.5	1157.5	9739.3
GR	1157.5	9745.5	1160.8	9761.0	1160.2	9776.5	1160.0	9787.5	1160.1	9804.5
GR	1157.0	9821.4	1157.8	9841.7	1157.6	9889.4	1157.8	9949.4	1158.1	9975.3
GR	1158.8	9993.2	1160.6	10010.2	1161.0	10100.2	1160.6	10116.7	1164.7	10136.3
GR	1164.8	10141.0	1163.5	10201.4	1163.7	10222.1	1165.0	10240.9	1165.4	10242.0
GR	1165.1	10264.9	1165.1	10284.8	1164.8	10297.9	1165.4	10341.8	1164.0	10441.8
GR	1164.2	10500.7	1165.0	10541.8	1164.9	10630.4	1164.3	10718.0	1164.4	10745.2
GR	1164.1	10752.7	1164.3	10806.3	1163.7	10841.9	1162.2	10883.7	1165.2	10899.5
GR	1165.2	10941.9	1164.1	10987.3	1165.2	11025.1	1164.6	11066.0	1163.9	11091.7
GR	1164.2	11119.6	1160.8	11141.7	1159.4	11181.6	1158.6	11228.9	1159.9	11248.9
GR	1160.0	11292.0	1159.0	11366.5	1160.0	11386.7	1160.1	11411.1	1159.2	11414.2
GR	1157.9	11433.4	1158.4	11438.1	1158.0	11455.4	1158.1	11469.1	1180.3	11499.6

ET	19.635		7.1				9310	11548		
X1	19.635	94	9886.5	10373.6	495	490	492.64			
GR	1171.5	8844.5	1168.6	8851.4	1168.9	8887.3	1168.3	8944.6	1160.3	8993.3
GR	1159.6	9031.9	1162.1	9063.9	1165.1	9096.2	1165.9	9137.3	1165.5	9155.3
GR	1165.3	9187.3	1163.8	9230.2	1164.2	9287.3	1164.2	9308.2	1163.1	9333.9
GR	1162.7	9336.3	1162.9	9354.5	1162.1	9373.4	1161.9	9382.0	1162.7	9437.3
GR	1164.2	9493.2	1164.6	9587.3	1164.2	9608.7	1164.1	9658.4	1164.3	9687.3
GR	1163.9	9749.5	1164.0	9787.4	1163.4	9803.6	1162.4	9816.2	1160.3	9846.9
GR	1162.8	9873.9	1163.2	9886.5	1163.1	9916.0	1162.8	9937.4	1162.4	9997.1
GR	1161.5	10037.4	1160.3	10075.0	1163.4	10089.0	1163.4	10098.9	1162.7	10106.9
GR	1161.2	10130.5	1162.2	10146.2	1162.1	10178.8	1162.8	10190.5	1163.1	10199.7
GR	1162.9	10222.7	1161.4	10229.5	1161.6	10251.8	1160.9	10270.9	1159.1	10283.4
GR	1159.2	10332.8	1160.2	10341.4	1160.2	10351.7	1165.8	10373.6	1166.6	10387.4
GR	1167.2	10431.8	1166.4	10483.5	1165.9	10494.5	1166.1	10520.6	1166.6	10537.4
GR	1166.8	10587.4	1166.7	10637.4	1166.4	10665.4	1165.2	10693.4	1164.5	10706.0
GR	1165.1	10737.4	1164.4	10755.3	1165.2	10764.6	1165.1	10779.4	1166.2	10793.1
GR	1165.5	10815.7	1166.0	10837.4	1165.3	10875.5	1166.8	10905.4	1167.3	10937.3
GR	1166.5	10987.4	1166.4	11066.8	1166.8	11088.2	1167.1	11137.4	1166.2	11173.0
GR	1163.4	11184.9	1160.3	11203.8	1160.9	11237.4	1160.2	11306.7	1160.4	11308.8
GR	1161.1	11331.1	1160.3	11373.4	1161.1	11387.4	1161.4	11437.4	1161.2	11490.7
GR	1160.8	11508.6	1164.9	11525.1	1165.6	11547.0	1174.0	11562.2		

ET	19.732		7.1				9370	11690		
X1	19.732	92	9814.6	10230.7	510	490	508.23			
GR	1175.5	8868.3	1166.5	8887.2	1167.1	8918.3	1166.9	8968.3	1166.3	8975.6
GR	1166.3	8989.6	1164.8	9004.2	1164.5	9028.0	1166.1	9046.0	1166.3	9051.8
GR	1163.9	9063.8	1164.2	9099.1	1166.0	9119.1	1165.8	9161.8	1166.0	9168.3
GR	1165.3	9218.3	1164.0	9233.7	1163.4	9267.7	1164.3	9334.3	1167.0	9343.5
GR	1167.7	9353.8	1163.5	9366.0	1163.8	9380.2	1164.0	9418.3	1163.7	9464.3
GR	1165.2	9475.2	1165.5	9522.5	1166.1	9568.3	1165.7	9672.0	1165.1	9718.3
GR	1164.4	9738.6	1165.8	9768.3	1165.9	9814.6	1164.9	9817.3	1164.3	9824.3
GR	1163.6	9837.2	1163.7	9868.3	1164.6	9920.1	1163.4	10018.3	1164.0	10029.6
GR	1162.9	10068.3	1160.9	10168.3	1160.9	10215.6	1161.4	10218.3	1166.4	10230.7
GR	1167.7	10234.2	1167.4	10269.8	1167.5	10319.7	1168.3	10368.3	1167.7	10423.8
GR	1166.9	10462.9	1167.3	10474.2	1167.6	10500.5	1167.5	10518.9	1168.1	10568.8
GR	1167.5	10669.2	1166.5	10705.6	1167.5	10718.7	1167.9	10730.6	1166.9	10772.0
GR	1167.2	10796.9	1168.5	10812.7	1168.4	10870.5	1167.5	10903.8	1168.4	10919.1
GR	1169.2	10969.5	1169.1	11019.0	1168.3	11048.0	1168.0	11049.8	1163.4	11067.7
GR	1161.3	11082.6	1161.2	11119.4	1161.9	11170.0	1162.1	11220.2	1162.5	11268.3
GR	1161.7	11352.5	1163.5	11367.7	1164.4	11397.8	1167.9	11411.8	1167.6	11420.9

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GR	1167.3	11518.3	1168.3	11568.3	1168.0	11614.6	1167.6	11617.0	1163.1	11633.5
GR	1163.2	11648.1	1166.2	11662.5	1166.5	11665.8	1166.8	11679.0	1167.9	11690.2
GR	1172.3	11710.0	1175.5	11718.7						
ET	19.827		7.1				9520	11727		
X1	19.827	95	9767.3	10149.0	500	500	501.12			
GR	1178.0	8900.5	1170.0	8912.8	1168.2	8969.2	1167.7	9001.5	1167.9	9005.5

Effective Model Output  
AGUAFRIA.OUT

GR	1165.4	9014.9	1166.3	9049.0	1165.4	9100.4	1165.5	9103.4	1165.6	9143.6
GR	1164.5	9199.0	1164.3	9230.1	1167.4	9242.0	1167.8	9248.0	1169.3	9299.0
GR	1169.3	9354.0	1169.0	9399.0	1167.1	9461.0	1168.2	9494.2	1168.2	9507.6
GR	1167.7	9549.8	1167.1	9560.5	1164.2	9580.6	1164.4	9627.4	1167.0	9635.5
GR	1166.4	9697.8	1166.7	9703.9	1166.7	9749.0	1167.1	9767.3	1164.6	9781.4
GR	1164.3	9788.9	1163.2	9800.0	1163.9	9849.0	1163.2	9888.5	1165.4	9918.7
GR	1165.9	9949.0	1165.0	9999.0	1164.4	10065.3	1166.9	10096.7	1168.3	10106.3
GR	1168.4	10149.0	1167.1	10201.0	1166.5	10211.5	1165.3	10219.7	1165.0	10233.6
GR	1167.7	10253.6	1169.2	10263.2	1169.3	10299.0	1168.9	10351.4	1169.3	10399.0
GR	1168.5	10499.0	1168.2	10549.1	1168.5	10599.0	1167.8	10609.1	1169.0	10622.5
GR	1168.8	10662.7	1167.1	10680.1	1168.8	10712.2	1168.6	10733.0	1168.3	10739.4
GR	1166.8	10749.0	1166.5	10799.9	1165.1	10853.4	1163.8	10898.8	1163.9	10904.9
GR	1165.1	10922.3	1164.1	10948.0	1163.8	10980.6	1163.1	10990.8	1162.4	10996.8
GR	1162.4	11007.9	1162.9	11050.9	1162.9	11103.1	1162.6	11130.8	1164.1	11149.0
GR	1164.0	11160.8	1164.2	11180.7	1167.2	11200.9	1169.8	11211.3	1169.9	11252.0
GR	1169.5	11348.0	1169.1	11399.0	1169.1	11452.8	1168.8	11503.0	1168.4	11594.7
GR	1168.4	11603.4	1169.5	11649.1	1168.9	11665.1	1168.0	11682.1	1164.7	11699.9
GR	1164.7	11717.7	1184.9	11756.7	1185.2	11760.4	1185.5	11775.5	1185.5	11785.4

ET	19.920		7.1				9660	11778		
X1	19.920	92	9744.6	10129.1	485	490	490.63			
GR	1178.8	8936.2	1171.6	8955.1	1171.3	8971.0	1171.5	8979.1	1170.6	9010.6
GR	1166.2	9025.5	1165.5	9076.6	1165.2	9081.9	1164.0	9087.0	1164.6	9106.2
GR	1165.7	9113.5	1166.0	9136.5	1167.7	9149.8	1167.2	9187.5	1169.4	9202.4
GR	1169.9	9229.1	1169.5	9379.1	1170.5	9429.1	1170.2	9479.1	1170.7	9529.1
GR	1170.3	9615.1	1169.1	9744.6	1164.4	9765.4	1164.0	9770.7	1164.4	9779.1
GR	1166.0	9979.1	1166.0	9992.3	1168.1	10020.8	1168.4	10037.3	1168.1	10100.3
GR	1168.3	10129.1	1167.2	10203.9	1169.4	10261.7	1171.0	10283.1	1169.9	10298.8
GR	1169.5	10326.3	1168.8	10347.5	1169.2	10396.8	1167.9	10408.8	1166.6	10448.3
GR	1166.5	10520.7	1168.2	10582.4	1168.0	10634.0	1167.0	10669.2	1167.2	10680.6
GR	1165.8	10699.5	1167.0	10718.9	1167.8	10722.3	1165.2	10737.5	1166.9	10752.3
GR	1166.4	10766.8	1164.3	10783.8	1164.0	10789.8	1165.0	10802.0	1165.1	10823.2
GR	1163.8	10843.8	1164.3	10871.0	1163.9	10886.4	1163.1	10895.5	1162.6	10925.7
GR	1163.9	10934.7	1164.0	10946.7	1165.5	10956.8	1168.4	10991.5	1166.2	11000.3
GR	1164.6	11008.2	1163.7	11016.1	1165.2	11030.7	1165.2	11074.7	1166.8	11106.6
GR	1172.2	11130.2	1172.1	11229.1	1171.1	11429.1	1171.0	11579.1	1170.6	11642.1
GR	1166.0	11658.7	1167.9	11676.5	1168.3	11683.2	1167.3	11706.3	1167.6	11716.6
GR	1168.9	11723.1	1168.6	11738.0	1167.8	11743.5	1168.4	11755.8	1169.8	11771.2
GR	1171.2	11779.0	1172.8	11784.1	1172.7	11786.2	1176.5	11794.7	1177.7	11801.3
GR	1187.7	11829.2	1188.1	11831.7						

ET	20.015		7.1				9700	11518		
X1	20.015	94	9722.6	10149.2	505	495	503.14			
GR	1179.3	8952.8	1167.1	8978.0	1167.6	9049.3	1167.6	9076.1	1167.9	9095.1
GR	1168.2	9099.3	1171.4	9132.8	1171.5	9156.9	1172.2	9199.2	1172.3	9207.0
GR	1172.8	9249.2	1172.5	9291.2	1172.4	9299.2	1172.0	9349.3	1172.1	9398.9
GR	1172.1	9440.9	1172.4	9493.3	1172.2	9549.3	1171.9	9561.2	1170.3	9595.5

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GR	1170.2	9599.5	1170.0	9649.2	1170.6	9691.1	1170.3	9722.6	1166.5	9742.9
GR	1166.9	9799.2	1167.1	9839.7	1167.0	9858.9	1166.6	9899.3	1166.4	9939.4
GR	1166.3	9949.2	1166.3	9998.0	1166.1	10004.0	1169.8	10027.0	1169.2	10089.0
GR	1169.0	10099.3	1169.4	10149.2	1168.9	10188.7	1169.0	10199.2	1168.3	10219.8
GR	1167.7	10245.3	1168.0	10282.1	1169.0	10288.0	1169.0	10298.9	1169.5	10349.2
GR	1170.2	10399.3	1170.1	10410.5	1170.3	10449.3	1171.0	10499.3	1170.6	10537.7
GR	1170.7	10560.8	1170.3	10611.0	1170.4	10649.3	1170.3	10685.4	1170.0	10700.8
GR	1164.7	10731.7	1164.0	10754.1	1166.3	10768.6	1166.0	10805.8	1166.9	10820.8
GR	1165.7	10856.8	1168.7	10876.2	1170.0	10904.5	1169.6	10935.6	1169.1	10949.3
GR	1169.6	10999.3	1169.3	11007.1	1170.1	11050.5	1170.4	11057.6	1170.9	11088.5
GR	1170.8	11118.3	1170.0	11143.6	1166.9	11156.7	1166.9	11187.1	1169.0	11195.1
GR	1169.2	11213.6	1172.6	11223.2	1173.2	11227.3	1173.2	11230.5	1172.0	11244.7
GR	1173.6	11260.5	1173.2	11299.3	1173.5	11335.4	1172.8	11385.3	1172.8	11435.6
GR	1172.8	11439.8	1168.5	11453.0	1170.3	11468.9	1171.6	11479.2	1169.2	11506.8
GR	1170.6	11513.2	1179.2	11538.1	1182.3	11547.9	1184.8	11558.9		

ET	20.111		7.1				9732.7	11308		
X1	20.111	92	9732.8	10159.6	540	470	510.07			
GR	1180.7	8906.1	1170.0	8927.8	1167.7	8932.9	1167.9	8985.7	1168.1	9004.3
GR	1167.7	9015.7	1169.3	9023.9	1172.8	9036.4	1170.5	9059.5	1171.7	9109.4
GR	1172.4	9158.4	1172.5	9195.6	1172.3	9273.5	1172.3	9276.3	1174.7	9299.3
GR	1174.1	9341.9	1172.9	9356.8	1172.6	9408.7	1173.6	9458.8	1173.7	9490.5
GR	1173.9	9508.8	1173.7	9558.9	1174.0	9608.9	1174.0	9643.5	1173.6	9709.1
GR	1173.5	9724.6	1174.1	9732.8	1166.9	9749.6	1166.8	9757.5	1167.5	9809.2
GR	1167.6	9864.0	1167.7	9909.3	1166.9	9946.4	1167.4	9960.0	1167.7	9996.5
GR	1168.1	10005.9	1167.9	10014.0	1169.4	10051.4	1170.6	10075.8	1171.3	10159.6
GR	1171.2	10209.6	1170.3	10239.3	1169.7	10264.0	1169.9	10280.4	1170.9	10309.8
GR	1171.6	10341.4	1171.5	10359.8	1170.4	10409.9	1170.8	10432.8	1170.6	10459.9
GR	1172.0	10500.4	1172.0	10560.1	1172.2	10593.9	1174.4	10618.4	1174.5	10660.2
GR	1174.0	10710.2	1174.7	10760.3	1174.5	10775.1	1174.3	10779.8	1168.6	10812.4
GR	1167.9	10837.9	1165.5	10856.9	1165.3	10865.2	1166.4	10881.8	1167.7	10913.0
GR	1167.7	10951.4	1167.5	10959.4	1169.6	10974.2	1170.6	11011.5	1171.9	11105.2
GR	1171.9	11110.7	1169.8	11159.3	1171.2	11165.9	1169.0	11182.9	1168.9	11198.8
GR	1173.4	11226.5	1172.2	11253.6	1172.4	11258.7	1172.3	11272.3	1171.4	11281.3
GR	1170.1	11291.4	1170.3	11301.8	1172.7	11305.8	1186.5	11331.9	1191.9	11343.1
GR	1190.3	11353.5	1188.8	11376.7	1187.4	11391.8	1188.3	11399.8	1191.6	11420.0
GR	1193.1	11430.5	1194.6	11439.3						

ET	20.207		7.1				9760	11080		
X1	20.207	94	9827.4	10206.3	540	460	504.21			
GR	1180.3	8798.0	1170.5	8820.9	1170.7	8850.9	1170.6	8902.7	1170.6	8912.1
GR	1172.0	8927.7	1170.0	8934.5	1170.0	8960.3	1171.6	8984.1	1172.2	8989.2
GR	1173.6	8997.1	1173.5	8999.6	1174.8	9027.5	1175.2	9031.3	1175.5	9041.5
GR	1176.0	9050.1	1176.1	9085.7	1176.0	9131.3	1175.8	9150.7	1176.4	9196.1

Effective Model Output  
AGUAFRIA.OUT

GR	1176.4	9198.7	1174.1	9220.7	1174.5	9267.9	1174.6	9313.5	1175.2	9351.8
GR	1175.2	9359.0	1175.0	9402.0	1175.3	9455.0	1175.2	9502.5	1175.3	9541.2
GR	1175.2	9552.8	1175.5	9603.1	1175.4	9653.4	1174.7	9670.0	1174.4	9682.7
GR	1170.0	9699.4	1170.2	9718.5	1173.4	9730.4	1173.8	9777.7	1173.8	9785.8
GR	1172.9	9827.4	1167.2	9845.4	1167.2	9854.4	1167.3	9903.1	1167.3	9910.4
GR	1168.3	9947.5	1168.2	9965.0	1167.8	9994.8	1169.6	10015.7	1170.6	10032.0
GR	1169.4	10084.7	1168.6	10109.9	1170.6	10126.9	1169.8	10166.9	1172.0	10206.3
GR	1172.7	10240.2	1173.5	10256.6	1174.2	10296.3	1174.4	10306.8	1174.3	10313.7
GR	1171.9	10340.3	1171.8	10356.7	1172.6	10407.4	1171.9	10452.1	1171.9	10464.5
GR	1172.2	10507.9	1172.5	10554.9	1176.4	10594.0	1175.6	10636.6	1176.1	10658.7

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GR	1175.1	10680.1	1174.7	10699.5	1174.3	10712.4	1172.7	10723.5	1172.8	10747.9
GR	1173.3	10763.9	1173.0	10768.2	1169.6	10786.5	1169.9	10793.8	1170.2	10814.5
GR	1169.5	10828.8	1170.5	10849.8	1171.3	10865.6	1172.5	10881.8	1172.1	10912.0
GR	1171.4	10952.6	1171.5	10966.0	1171.3	10970.0	1168.4	10990.2	1170.3	11012.0
GR	1170.0	11027.0	1169.5	11064.7	1180.4	11080.3	1184.1	11086.0		

ET	20.294		7.1				9740	10900		
X1	20.294	91	9840.3	10156.1	480	425	459.65			
GR	1183.1	8631.8	1183.3	8634.9	1174.5	8657.0	1174.7	8737.2	1173.9	8794.3
GR	1177.6	8816.0	1177.9	8832.2	1178.0	8858.2	1177.8	8894.5	1177.5	8921.8
GR	1177.7	8945.1	1178.3	8974.4	1178.4	8987.4	1176.7	9015.4	1175.0	9040.1
GR	1176.2	9074.2	1177.0	9096.5	1177.2	9147.1	1176.7	9197.6	1176.2	9231.4
GR	1176.1	9248.1	1176.1	9270.2	1175.9	9298.6	1175.5	9319.9	1175.1	9349.1
GR	1174.6	9388.0	1174.6	9399.6	1174.8	9435.3	1174.8	9439.2	1173.9	9450.1
GR	1174.1	9456.6	1174.1	9480.6	1174.9	9495.9	1174.9	9520.8	1174.4	9536.5
GR	1174.6	9543.3	1174.7	9551.1	1174.4	9576.3	1174.3	9579.6	1175.8	9592.7
GR	1175.9	9599.1	1176.0	9622.6	1176.2	9652.1	1175.4	9684.2	1175.0	9704.8
GR	1171.1	9742.7	1171.3	9781.5	1171.8	9804.7	1171.5	9806.9	1174.2	9840.3
GR	1169.6	9855.2	1169.3	9859.1	1169.2	9875.8	1168.9	9904.6	1167.8	9926.9
GR	1166.7	9955.9	1167.9	9973.8	1169.6	9999.9	1169.7	10002.3	1169.9	10022.5
GR	1170.3	10056.1	1170.4	10094.3	1170.5	10106.6	1171.3	10127.3	1171.9	10139.0
GR	1172.1	10156.1	1172.0	10180.7	1171.8	10209.8	1171.4	10253.1	1171.2	10258.1
GR	1171.3	10308.6	1170.7	10352.1	1172.2	10386.1	1172.9	10425.4	1173.1	10469.6
GR	1173.4	10513.8	1173.4	10558.1	1172.8	10611.6	1173.2	10662.1	1172.7	10705.6
GR	1172.7	10722.2	1174.0	10763.1	1173.4	10786.6	1169.8	10803.5	1170.6	10825.9
GR	1171.1	10835.2	1169.0	10851.6	1170.6	10866.0	1170.3	10874.0	1170.4	10890.2
GR	1185.8	10909.1								

ET	20.343	9.1	7.1				9720	10970	8518.4	10970
X1	20.343	92	9833.4	10157.0	250	255	261.59			
GR	1183.7	8518.4	1184.3	8527.2	1177.5	8542.0	1174.6	8549.0	1174.4	8627.7
GR	1175.1	8665.9	1178.5	8687.3	1178.3	8691.2	1179.2	8736.0	1179.0	8786.5
GR	1177.1	8845.0	1177.3	8857.9	1178.0	8887.4	1178.1	8927.5	1177.9	8988.4
GR	1176.6	9089.3	1176.1	9161.7	1175.3	9220.3	1175.5	9240.7	1176.3	9291.2
GR	1177.1	9392.2	1177.1	9442.6	1176.5	9478.0	1176.2	9522.4	1175.7	9543.6
GR	1175.5	9570.2	1175.8	9595.9	1175.5	9599.2	1174.3	9622.0	1173.8	9640.3
GR	1172.4	9656.8	1172.2	9662.9	1172.7	9681.1	1173.9	9690.9	1173.7	9708.3
GR	1172.0	9720.0	1173.0	9772.8	1174.3	9796.0	1174.7	9817.4	1175.5	9827.9
GR	1175.5	9833.4	1174.3	9864.1	1169.2	9880.4	1168.7	9896.9	1168.8	9948.1
GR	1170.1	9997.9	1169.4	10048.4	1173.2	10070.6	1173.6	10100.8	1173.7	10157.0
GR	1173.1	10208.7	1172.4	10233.8	1172.6	10300.7	1170.9	10352.6	1172.3	10374.0
GR	1173.2	10508.3	1173.4	10603.5	1172.3	10681.6	1170.9	10738.2	1173.9	10753.6
GR	1175.2	10761.2	1175.3	10806.7	1175.8	10855.9	1175.9	10906.4	1175.6	10933.4
GR	1175.3	10944.7	1173.6	10962.7	1175.2	10979.9	1175.5	10986.3	1174.9	10995.0
GR	1174.1	11000.8	1175.1	11037.9	1175.6	11044.8	1175.6	11080.8	1174.6	11102.7
GR	1174.6	11107.5	1175.4	11121.0	1176.3	11129.2	1176.1	11133.7	1176.7	11156.7
GR	1177.0	11158.7	1177.1	11198.7	1176.9	11211.4	1176.0	11226.6	1177.7	11247.1
GR	1177.3	11263.8	1175.4	11285.2	1179.7	11293.7	1187.1	11310.2	1193.5	11328.7
GR	1196.3	11336.3	1196.5	11348.3						

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ET	20.388	9.1	7.1				9700	10820	8425.3	10820
X1	20.388	94	9863.1	10226.4	220	220	232.89			
GR	1185.2	8425.3	1182.6	8431.0	1182.4	8432.3	1175.7	8446.9	1176.3	8454.4
GR	1177.0	8516.0	1177.1	8532.1	1179.7	8548.7	1180.1	8583.6	1179.7	8633.4
GR	1178.9	8667.4	1179.5	8735.1	1178.8	8785.6	1178.1	8836.0	1177.2	8886.5
GR	1176.4	8936.9	1176.9	8987.4	1177.3	9048.1	1177.8	9138.8	1178.0	9211.3
GR	1177.9	9239.7	1177.5	9290.1	1177.2	9340.6	1176.4	9386.2	1175.3	9393.7
GR	1175.1	9410.9	1176.6	9423.2	1177.1	9441.4	1176.6	9491.9	1176.3	9542.4
GR	1176.0	9585.5	1173.9	9628.1	1174.1	9633.3	1173.6	9678.1	1173.8	9693.8
GR	1173.0	9722.0	1177.1	9750.7	1177.9	9759.3	1178.1	9795.2	1178.1	9845.8
GR	1177.2	9863.1	1169.2	9883.0	1169.1	9951.8	1168.9	9969.4	1171.5	10028.5
GR	1172.3	10047.0	1172.4	10072.9	1173.7	10088.2	1174.3	10147.9	1174.5	10226.4
GR	1174.4	10248.8	1172.5	10294.5	1171.7	10301.7	1171.7	10336.7	1173.1	10342.4
GR	1172.8	10388.8	1173.3	10396.8	1173.6	10450.6	1173.6	10501.1	1173.9	10551.6
GR	1174.3	10602.0	1173.6	10648.0	1173.7	10685.9	1176.1	10712.0	1176.3	10745.5
GR	1174.5	10767.4	1176.2	10781.9	1175.5	10801.2	1176.8	10853.9	1174.2	10871.8
GR	1174.1	10877.3	1175.2	10891.8	1176.2	10895.9	1177.0	10903.9	1176.1	10906.0
GR	1176.7	10908.5	1176.6	10928.3	1176.2	10941.8	1174.8	10960.0	1173.7	10969.3
GR	1173.7	10989.9	1174.7	10997.7	1174.4	11009.5	1175.5	11024.7	1176.1	11042.0
GR	1177.2	11052.9	1179.3	11067.1	1176.3	11108.0	1176.1	11120.0	1177.0	11136.0
GR	1177.8	11165.7	1178.2	11201.4	1177.8	11234.0	1185.1	11255.5		

ET	20.435	9.1	7.1				9670	10650	8338	10650
X1	20.435	91	9851.4	10253.1	210	270	248.16			
GR	1184.0	8319.7	1185.2	8324.2	1186.1	8337.9	1183.1	8345.3	1176.6	8359.5
GR	1178.1	8374.5	1178.2	8396.4	1179.4	8424.4	1179.4	8441.8	1180.1	8458.0
GR	1180.8	8467.6	1181.8	8500.4	1179.8	8546.1	1178.8	8646.5	1177.9	8699.4

Effective Model Output  
AGUAFRIA.OUT

GR	1177.4	8713.3	1178.3	8797.1	1178.5	8847.4	1178.3	8897.6	1178.6	8948.3
GR	1178.4	9058.1	1178.6	9098.4	1177.5	9230.4	1176.5	9260.7	1177.7	9299.2
GR	1177.4	9359.3	1177.8	9408.2	1177.5	9449.8	1176.4	9537.5	1176.1	9547.1
GR	1174.8	9563.7	1173.1	9580.4	1173.8	9600.4	1173.9	9637.7	1176.7	9664.4
GR	1179.3	9701.7	1179.5	9751.1	1178.5	9801.2	1178.5	9822.5	1178.0	9851.4
GR	1178.6	9901.2	1178.0	9906.1	1177.3	9914.4	1169.2	9937.3	1169.5	9952.3
GR	1169.5	10002.1	1168.8	10040.0	1169.9	10052.4	1171.7	10095.9	1171.8	10135.5
GR	1174.3	10173.4	1174.7	10202.9	1175.0	10253.1	1174.4	10274.5	1172.5	10299.7
GR	1171.8	10325.7	1174.0	10341.3	1174.6	10351.3	1175.4	10403.7	1175.9	10510.3
GR	1175.9	10552.6	1175.2	10630.7	1174.3	10653.3	1173.9	10656.4	1178.0	10670.4
GR	1178.5	10704.9	1178.3	10755.2	1178.9	10805.4	1179.0	10855.6	1178.0	10865.5
GR	1177.1	10913.1	1179.6	10939.4	1180.1	10946.5	1180.2	10961.4	1179.7	10978.1
GR	1179.2	11030.9	1180.5	11053.2	1180.8	11065.3	1181.1	11107.6	1180.2	11156.8
GR	1180.1	11169.5	1178.2	11181.0	1177.7	11186.3	1177.8	11194.5	1178.6	11207.1
GR	1178.0	11210.8	1182.1	11220.8	1180.9	11320.0	1181.1	11333.8	1182.2	11357.6
GR	1182.2	11362.7								

ET	20.483		7.1				9670	10540		
X1	20.483	93	9924.8	10441.0	220	265	252.75			
GR	1186.8	8263.7	1179.7	8280.2	1180.0	8322.1	1180.3	8329.5	1181.4	8372.2
GR	1181.8	8419.8	1181.9	8426.0	1180.1	8444.4	1178.2	8471.9	1179.1	8483.9
GR	1179.2	8522.5	1179.4	8572.6	1179.2	8599.6	1179.3	8622.6	1179.1	8648.5
GR	1179.1	8672.7	1179.4	8701.7	1179.5	8722.8	1179.3	8754.9	1179.2	8772.9
GR	1179.0	8808.1	1178.8	8823.0	1178.7	8861.2	1178.8	8923.1	1179.0	8967.6
GR	1179.5	9023.3	1179.6	9073.9	1179.2	9120.3	1177.6	9174.7	1178.0	9188.8
GR	1178.6	9223.7	1178.1	9262.6	1178.2	9269.2	1178.5	9273.8	1178.5	9286.6

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GR	1178.8	9323.8	1178.6	9356.9	1178.2	9393.0	1177.7	9442.8	1176.9	9467.8
GR	1176.3	9494.6	1175.1	9518.0	1174.9	9524.2	1174.6	9548.7	1174.6	9568.6
GR	1173.9	9585.8	1175.4	9604.3	1176.3	9623.3	1176.3	9630.5	1175.8	9644.6
GR	1175.7	9662.5	1180.0	9677.0	1180.2	9679.5	1179.9	9714.4	1179.5	9765.2
GR	1179.5	9782.9	1179.4	9824.7	1179.4	9828.6	1179.2	9874.1	1179.1	9883.1
GR	1178.4	9904.4	1177.2	9916.7	1178.2	9924.8	1175.3	9975.1	1170.8	9990.8
GR	1170.8	10003.0	1170.5	10028.5	1170.1	10033.8	1173.5	10053.7	1174.0	10070.3
GR	1169.8	10095.7	1170.0	10137.2	1171.6	10174.3	1171.7	10202.8	1173.0	10231.2
GR	1173.4	10258.1	1173.0	10275.4	1172.9	10319.3	1174.2	10338.7	1174.2	10342.3
GR	1175.2	10363.1	1174.9	10375.3	1175.0	10397.1	1174.5	10413.3	1173.9	10422.8
GR	1176.3	10441.0	1176.4	10463.8	1176.3	10472.3	1176.4	10475.8	1176.2	10495.4
GR	1175.5	10525.7	1180.2	10541.1	1194.5	10574.4				

ET	20.579		7.1				9660	10345.6		
X1	20.579	90	9825.6	10324.2	455	540	509.77			
GR	1187.1	8154.9	1187.7	8167.0	1186.3	8171.3	1181.5	8181.2	1180.5	8183.9
GR	1181.5	8211.3	1182.1	8225.6	1180.3	8267.5	1180.0	8285.3	1180.1	8291.4
GR	1181.6	8304.5	1180.1	8325.6	1180.2	8333.6	1181.1	8375.6	1180.9	8475.6
GR	1180.8	8525.6	1180.8	8533.2	1180.7	8575.6	1180.6	8616.2	1180.7	8639.9
GR	1179.3	8655.2	1180.4	8665.9	1180.7	8676.6	1180.9	8725.6	1181.0	8732.8
GR	1181.0	8775.6	1180.9	8782.8	1180.8	8825.6	1181.2	8868.7	1181.2	8882.5
GR	1180.2	8925.6	1179.0	8975.6	1178.6	8985.4	1180.8	9024.9	1181.1	9067.4
GR	1181.2	9082.0	1182.2	9125.3	1182.1	9132.1	1180.2	9175.6	1179.4	9207.4
GR	1179.4	9223.9	1179.0	9275.6	1178.1	9306.4	1177.8	9314.2	1178.8	9325.0
GR	1179.0	9331.8	1178.4	9366.8	1178.6	9375.6	1178.1	9387.0	1178.3	9409.4
GR	1178.2	9419.5	1178.3	9425.2	1177.9	9429.4	1176.8	9470.7	1177.2	9504.7
GR	1179.5	9516.6	1180.9	9522.3	1181.2	9526.6	1181.0	9570.8	1181.3	9593.3
GR	1181.6	9605.0	1181.1	9633.2	1180.5	9675.1	1180.8	9698.9	1180.9	9705.1
GR	1179.3	9722.0	1179.4	9728.3	1178.3	9740.1	1177.1	9774.3	1178.1	9796.9
GR	1178.8	9823.3	1179.0	9825.6	1177.7	9860.0	1176.0	9920.5	1175.8	9925.6
GR	1175.8	9930.5	1176.0	9975.6	1174.7	10003.0	1174.8	10030.3	1175.0	10078.6
GR	1174.6	10130.3	1174.1	10161.8	1172.7	10174.0	1172.6	10202.0	1172.4	10229.9
GR	1171.9	10275.6	1172.4	10309.2	1176.7	10322.2	1177.8	10324.2	1194.8	10345.6

ET	20.675	9.1	7.1				9630	10226.6	8290.2	10226.6
X1	20.675	86	9893.4	10206.8	500	505	502.63			
GR	1187.2	8102.8	1180.9	8117.2	1178.1	8123.8	1179.2	8150.2	1180.2	8195.0
GR	1180.6	8207.9	1181.4	8222.1	1182.5	8243.0	1182.9	8257.2	1183.4	8272.8
GR	1183.8	8281.0	1185.6	8290.2	1182.9	8303.1	1183.0	8309.7	1183.5	8319.5
GR	1183.5	8355.9	1183.3	8403.0	1183.4	8406.4	1182.9	8451.4	1182.4	8455.1
GR	1183.3	8498.6	1183.3	8502.9	1182.5	8553.0	1182.6	8567.0	1183.2	8589.7
GR	1182.8	8607.9	1182.8	8615.6	1183.6	8634.3	1183.5	8655.9	1183.1	8703.0
GR	1183.2	8705.9	1183.8	8753.0	1183.8	8755.9	1183.3	8802.9	1183.3	8805.9
GR	1182.6	8853.0	1181.8	8903.0	1181.1	8952.9	1180.7	8988.8	1180.6	9003.4
GR	1180.4	9019.7	1180.5	9036.3	1180.0	9045.7	1180.1	9046.3	1178.6	9064.4
GR	1178.3	9104.2	1178.1	9119.3	1179.5	9127.2	1179.9	9148.8	1180.6	9158.4
GR	1181.2	9164.0	1181.5	9203.3	1180.1	9218.5	1181.3	9253.0	1180.8	9306.0
GR	1180.4	9353.0	1180.7	9403.0	1180.7	9406.0	1179.8	9453.0	1180.0	9471.2
GR	1180.4	9476.2	1181.4	9503.2	1180.5	9549.9	1180.4	9582.1	1180.7	9604.9
GR	1180.6	9653.8	1180.6	9701.5	1180.6	9706.0	1178.3	9756.0	1177.6	9803.0
GR	1176.5	9840.8	1177.8	9852.9	1177.7	9853.9	1177.4	9893.4	1175.9	9901.2
GR	1174.1	9914.2	1174.7	9956.1	1174.9	10006.1	1174.4	10056.1	1174.1	10103.0
GR	1173.4	10134.7	1171.7	10147.6	1171.3	10152.8	1172.3	10193.6	1172.7	10206.8
GR	1185.4	10226.6								

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ET	20.769	9.1	7.1				9500	10280	8349.4	10280
X1	20.769	95	9822.3	10243.0	465	500	497.97			
GR	1187.2	7959.7	1185.7	7966.3	1184.0	8001.8	1183.2	8030.1	1182.9	8031.8
GR	1182.4	8053.4	1182.2	8081.3	1182.5	8103.4	1181.3	8129.6	1179.9	8153.5
GR	1179.2	8171.1	1179.6	8207.2	1179.7	8232.9	1181.7	8253.6	1182.8	8274.4
GR	1184.3	8313.3	1184.8	8336.1	1187.0	8346.4	1187.4	8349.4	1185.0	8359.0

Effective Model Output  
AGUAFRIA.OUT

GR	1185.1	8403.6	1185.4	8453.6	1185.3	8503.7	1185.3	8542.6	1185.3	8553.7
GR	1185.2	8594.5	1185.1	8612.4	1184.6	8653.8	1184.4	8698.3	1184.4	8703.8
GR	1184.3	8750.2	1183.8	8802.2	1183.7	8805.5	1183.1	8854.7	1182.7	8870.4
GR	1179.6	8891.8	1180.4	8911.9	1181.0	8942.2	1181.9	8953.4	1179.5	8973.2
GR	1182.0	8987.4	1182.5	9004.0	1183.3	9046.9	1183.2	9061.7	1183.0	9104.1
GR	1182.6	9143.5	1182.6	9156.5	1182.2	9204.6	1182.2	9208.4	1183.6	9221.6
GR	1182.0	9254.2	1181.3	9293.0	1181.0	9311.6	1181.7	9331.7	1182.4	9343.6
GR	1179.6	9391.7	1179.2	9398.0	1179.3	9399.9	1178.3	9413.5	1178.4	9453.7
GR	1178.5	9471.2	1180.1	9489.8	1181.2	9554.4	1181.3	9604.4	1181.2	9642.1
GR	1179.5	9656.0	1179.4	9698.0	1179.6	9707.7	1179.3	9715.9	1179.3	9754.5
GR	1179.3	9771.1	1178.5	9804.5	1177.9	9822.3	1175.5	9838.8	1173.2	9852.6
GR	1173.1	9865.1	1174.5	9886.2	1175.4	9907.6	1176.5	9946.4	1177.2	9992.3
GR	1177.1	10007.2	1178.3	10020.8	1178.5	10045.0	1178.5	10059.6	1177.2	10104.8
GR	1177.1	10109.1	1176.7	10154.8	1175.7	10170.6	1173.2	10185.2	1174.0	10193.7
GR	1174.5	10204.4	1175.0	10209.3	1176.1	10243.0	1178.0	10265.1	1186.5	10280.8

GR POINTS MODIFIED - BOTTOM OF GRAVEL MINE RAISED TO ELIMINATE NON-EFFECTIVE FLOW AREA BETWEEN SECTIONS 20.864 TO 8.875.

QT	2	35000	35000				9340	10310	8413.1	10533.4
ET	20.864	9.1	7.1				502.57			
X1	20.864	78	9780.3	10262.5	460	505				
GR	1192.1	8048.2	1193.3	8058.7	1184.3	8078.9	1184.4	8117.8	1182.1	8154.4
GR	1179.9	8175.6	1179.8	8182.8	1179.2	8225.7	1179.8	8277.1	1180.6	8309.6
GR	1183.4	8325.9	1184.2	8376.1	1183.6	8407.5	1186.8	8413.1	1185.0	8422.0
GR	1185.0	8464.0	1185.1	8466.4	1184.1	8491.3	1184.3	8500.7	1184.0	8518.0
GR	1184.0	8750.2	1185.2	8777.2	1185.0	8789.4	1185.4	8839.5	1185.4	8879.7
GR	1184.7	8928.4	1184.4	8977.8	1183.9	9033.9	1183.4	9078.0	1182.9	9142.2
GR	1182.7	9178.3	1181.9	9223.5	1181.4	9243.9	1179.9	9280.7	1179.8	9302.2
GR	1180.0	9334.7	1179.6	9378.9	1180.1	9408.1	1182.7	9436.8	1183.9	9480.7
GR	1184.6	9494.7	1186.1	9509.8	1185.7	9525.0	1185.6	9540.4	1184.2	9550.0
GR	1184.3	9582.7	1184.5	9629.6	1184.1	9679.7	1183.3	9724.5	1180.8	9739.2
GR	1181.6	9780.3	1177.9	9794.7	1176.4	9839.2	1176.0	9855.0	1177.7	9872.2
GR	1179.0	9922.1	1179.2	9933.9	1178.2	9948.4	1178.4	9980.5	1178.1	10009.1
GR	1177.9	10074.3	1177.1	10131.0	1176.7	10181.1	1176.9	10231.2	1177.6	10239.2
GR	1182.0	10262.5	1182.9	10281.4	1182.9	10329.3	1182.9	10331.5	1181.4	10376.0
GR	1181.2	10381.7	1180.5	10422.6	1180.4	10431.8	1180.6	10471.3	1179.5	10486.7
GR	1186.6	10504.1	1197.0	10532.3	1198.1	10533.4				

ET	20.958	9.1	7.1				9250	10383.9	8780	10760
X1	20.958	95	9787.3	10383.8	390	530	496.89			
GR	1188.2	8125.7	1182.5	8139.8	1182.5	8144.8	1181.8	8169.4	1178.3	8186.1
GR	1176.6	8194.6	1171.4	8234.1	1170.3	8245.5	1169.9	8289.9	1170.3	8302.9
GR	1178.6	8350.6	1178.9	8364.3	1180.0	8398.1	1180.3	8401.0	1181.7	8450.2
GR	1182.2	8482.2	1186.0	8500.0	1185.8	8522.0	1185.9	8550.7	1187.0	8601.5
GR	1187.1	8619.9	1186.5	8666.9	1186.0	8727.2	1185.5	8758.0	1188.4	8768.6
GR	1190.7	8779.0	1190.0	8792.4	1188.7	8797.4	1187.1	8806.2	1185.4	8840.8
GR	1184.5	8854.0	1183.3	8880.1	1182.2	8898.2	1181.9	8914.9	1181.9	8958.1

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GR	1182.8	9008.4	1182.7	9012.1	1182.5	9059.2	1182.5	9073.3	1182.2	9129.6
GR	1182.4	9137.1	1184.0	9146.5	1185.8	9160.2	1185.7	9165.1	1185.9	9206.8
GR	1186.6	9262.7	1186.0	9306.7	1186.3	9348.8	1186.5	9364.4	1186.5	9413.0
GR	1185.2	9429.8	1185.6	9446.7	1187.5	9458.7	1187.4	9462.9	1187.8	9482.2
GR	1187.8	9489.3	1185.8	9500.6	1186.7	9505.2	1187.2	9516.8	1186.7	9567.8
GR	1186.5	9606.1	1186.4	9649.0	1186.1	9693.3	1186.0	9707.0	1186.1	9716.3
GR	1186.0	9754.4	1182.9	9766.6	1183.3	9775.2	1183.3	9787.3	1182.8	9819.2
GR	1182.8	9830.2	1178.3	9844.3	1179.2	9873.0	1178.5	9923.9	1178.9	9977.2
GR	1180.5	9987.5	1180.5	10018.6	1180.3	10034.9	1180.5	10076.4	1180.9	10127.3
GR	1180.9	10135.8	1180.7	10177.0	1179.8	10229.0	1178.5	10262.0	1177.5	10292.1
GR	1176.6	10363.7	1181.5	10383.8	1183.9	10392.4	1183.9	10432.5	1184.6	10483.3
GR	1184.6	10534.2	1184.4	10605.2	1182.1	10732.8	1182.1	10742.4	1194.0	10760.0

ET	21.061	9.1	7.1				9250	10350	9030.0	11069.0
X1	21.061	91	9850.0	10325.4	340	655	542.53			
GR	1192.3	8187.5	1193.6	8199.8	1189.5	8209.0	1183.9	8222.8	1181.3	8275.7
GR	1180.7	8281.3	1176.2	8309.6	1172.9	8328.7	1170.6	8354.0	1169.6	8374.3
GR	1170.2	8419.5	1173.2	8441.0	1178.8	8476.8	1179.2	8546.0	1181.2	8600.3
GR	1182.7	8641.1	1183.9	8654.5	1184.0	8682.4	1183.3	8698.6	1186.2	8709.3
GR	1184.9	8751.7	1184.6	8793.6	1184.6	8825.8	1183.8	8864.9	1181.9	8896.9
GR	1181.2	8905.0	1182.6	8920.7	1181.9	8936.5	1184.6	8966.0	1186.2	9012.8
GR	1186.5	9066.3	1186.8	9089.3	1186.6	9135.6	1187.9	9174.9	1187.5	9248.1
GR	1187.1	9253.5	1186.3	9257.6	1188.6	9298.0	1188.2	9312.4	1188.6	9375.9
GR	1188.2	9464.9	1188.1	9524.0	1187.6	9578.3	1187.4	9633.7	1187.6	9687.0
GR	1187.0	9708.5	1187.3	9759.1	1188.0	9819.5	1186.6	9833.7	1184.5	9850.0
GR	1180.3	9895.6	1178.2	9905.8	1176.5	9918.9	1177.1	9938.7	1178.4	9958.7
GR	1177.4	10008.7	1177.7	10013.0	1177.6	10034.7	1179.6	10051.0	1180.8	10057.9
GR	1180.9	10075.4	1180.8	10114.7	1180.4	10128.6	1177.3	10169.8	1179.1	10230.4
GR	1179.5	10284.2	1179.6	10293.5	1183.4	10312.3	1186.3	10325.4	1185.8	10390.7
GR	1185.5	10447.7	1184.9	10502.0	1183.2	10563.5	1184.4	10574.9	1186.2	10597.2
GR	1185.0	10613.0	1186.9	10632.0	1186.2	10655.8	1186.2	10687.3	1184.2	10703.6
GR	1186.2	10721.5	1187.1	10781.1	1186.9	10862.9	1186.7	10908.8	1186.4	10926.9
GR	1186.7	10936.8	1187.1	10987.6	1186.1	11012.0	1185.1	11025.4	1187.9	11045.4
GR	1201.2	11069.0								

NC	.055	.055	.050				9266.8	10400	9266.8	11150
ET	21.157	9.1	7.1				509.07			
X1	21.157	94	9377.3	10376.3	340	630				
GR	1196.0	8182.2	1196.1	8184.4	1192.4	8197.1	1193.5	8208.0	1190.1	8223.3
GR	1192.3	8246.0	1191.3	8258.3	1191.4	8264.6	1185.1	8308.7	1183.7	8336.5
GR	1178.7	8387.1	1178.6	8397.0	1176.3	8432.1	1178.3	8441.8	1178.4	8451.5
GR	1174.2	8500.1	1177.8	8540.9	1176.3	8561.5	1178.2	8580.0	1178.9	8639.9
GR	1178.2	8716.7	1179.2	8747.3	1183.6	8782.5	1186.2	8836.0	1186.5	8874.3
GR	1190.0	8897.8	1188.6	8906.8	1183.1	8932.9	1180.4	8972.1	1185.7	8984.7

Effective Model Output  
AGUAFRIA.OUT

GR	1186.8	9024.0	1187.7	9034.5	1188.7	9146.7	1188.2	9196.4	1192.8	9211.2
GR	1190.5	9217.8	1188.1	9230.5	1188.8	9257.6	1192.1	9266.8	1189.1	9277.5
GR	1189.4	9367.8	1185.9	9377.3	1182.5	9384.7	1181.9	9399.5	1182.3	9456.5
GR	1182.5	9511.2	1184.9	9522.6	1180.2	9540.1	1180.6	9541.0	1177.1	9550.4
GR	1176.6	9577.6	1178.1	9602.3	1183.1	9638.6	1183.9	9649.3	1183.1	9683.8
GR	1184.0	9765.7	1183.5	9878.7	1182.8	9910.1	1182.8	9964.5	1184.0	10008.6
GR	1182.8	10105.5	1181.2	10118.2	1179.8	10219.2	1180.3	10232.0	1181.5	10240.1
GR	1180.0	10253.7	1178.3	10263.7	1179.9	10279.0	1181.6	10309.5	1181.9	10376.3
GR	1182.8	10398.0	1180.6	10404.6	1181.2	10411.2	1189.3	10440.4	1192.8	10455.2
GR	1190.9	10477.1	1189.6	10532.3	1189.2	10587.0	1187.0	10615.5	1188.7	10633.4

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GR	1187.8	10655.0	1189.5	10676.2	1189.4	10771.4	1187.0	10831.3	1189.3	10874.0
GR	1189.6	10891.0	1189.2	10950.8	1189.8	10981.9	1189.6	11039.8	1190.2	11134.4
GR	1189.9	11240.1	1188.9	11348.5	1189.6	11427.1	1197.9	11459.8		

GR POINTS MODIFIED - BOTTOM OF GRAVEL MINE RAISED TO ELIMINATE NON-EFFECTIVE FLOW AREA BETWEEN SECTIONS 21.245 TO 21.621.

ET	21.245	9.1	7.1				9250	10320	9250	10700
X1	21.245	83	9830.3	10274.8	365	530	464.18			
GR	1189.8	8059.3	1182.0	8098.8	1180.6	8259.4	1179.6	8277.2	1181.8	8354.9
GR	1179.6	8508.9	1180.1	8520.4	1180.4	8594.3	1181.9	8612.9	1184.4	8674.1
GR	1186.3	8695.9	1188.1	8708.5	1188.0	8778.1	1191.5	8792.1	1187.5	8814.0
GR	1180.6	8827.9	1166.1	8849.4	1162.8	8855.2	1155.2	8874.7	1153.4	8881.1
GR	1156.5	8986.8	1155.0	9016.0	1153.3	9033.0	1152.1	9074.9	1152.6	9084.2
GR	1155.6	9101.6	1156.7	9127.2	1165.9	9143.3	1166.5	9172.0	1170.4	9186.5
GR	1171.5	9205.4	1174.3	9224.6	1185.3	9251.8	1185.4	9277.5	1178.0	9296.4
GR	1178.0	9417.8	1182.2	9424.6	1186.7	9464.7	1185.4	9495.4	1186.2	9538.0
GR	1190.3	9559.9	1186.7	9576.3	1187.4	9655.7	1186.9	9762.4	1185.8	9815.0
GR	1189.6	9830.3	1188.4	9868.8	1188.2	9917.2	1187.3	9946.4	1184.0	9957.5
GR	1184.0	10259.1	1187.3	10274.8	1191.3	10280.2	1192.0	10343.4	1194.8	10353.8
GR	1193.2	10361.0	1190.5	10380.9	1191.6	10445.1	1191.0	10586.7	1187.8	10629.2
GR	1187.5	10645.3	1192.0	10690.1	1191.2	10765.9	1191.7	10829.0	1190.1	10882.1
GR	1191.2	10907.9	1191.3	10988.3	1188.8	11005.8	1190.8	11025.9	1190.8	11052.0
GR	1190.2	11059.2	1191.3	11115.0	1191.5	11256.0	1190.8	11433.8	1191.5	11600.1
GR	1191.5	11664.2	1193.4	11728.3	1194.9	11740.7	1193.0	11749.4	1197.7	11800.2
GR	1199.0	11807.0	1202.1	11817.5	1204.7	11830.9				

ET	21.337	9.1	7.1				9294	10260	9230	11100
X1	21.337	53	9295.0	10151.3	375	530	483.32			
GR	1194.0	7780.0	1188.1	7798.0	1186.3	7798.5	1186.9	7850.9	1194.2	7877
GR	1188.5	7898.8	1188.5	8011.8	1191.9	8028.8	1191.2	8030.2	1191.8	8048.6
GR	1188.8	8083	1190.4	8214.8	1191.4	8241.5	1186.3	8289.9	1184.4	8373.3
GR	1185.7	8418	1190	8453.9	1191.2	8486.4	1190.5	8547	1194.6	8563
GR	1192.0	8572	1192.0	9178.0	1189.5	9220.3	1186.2	9225.8	1185.8	9237
GR	1190	9242.9	1181.3	9263.3	1180.0	9295.0	1180.0	10151.3	1188.5	10161.6
GR	1182.8	10181.8	1185.1	10219.6	1186.5	10229.9	1185.3	10335.4	1194.1	10351.5
GR	1190.7	10410.9	1193	10592.7	1192	10714.5	1190.2	10759.9	1190.6	10824.7
GR	1194.3	10834.7	1190.2	10849.7	1192.5	10865.6	1193.2	11035.2	1193.6	11182.8
GR	1192.7	11374	1192.4	11530.2	1192.7	11698.9	1192.8	11850.1	1194	12038.7
GR	1195.2	12053.6	1195.2	12071.1	1198	12092.1				

ET	21.431	9.1	7.1				9400	10343.6	9350	10343.6
X1	21.431	75	9467.9	10343.5	465	430	495.67			
GR	1195.9	7596.7	1191.5	7612.7	1191.4	7644.6	1196.1	7665.8	1189.9	7681.7
GR	1191.3	7876.2	1193.0	7887.7	1192.5	8007.9	1185.7	8031.5	1185.9	8041.4
GR	1192.9	8065.9	1190.8	8089.6	1191.6	8356.5	1193.7	8627.3	1195.3	8703.6
GR	1196.7	8717.0	1195.1	8733.0	1205.5	8755.9	1205.1	8780.9	1199.7	8795.6
GR	1196.6	8800.4	1196.9	8892.0	1202.5	8926.6	1201.4	8930.6	1203.4	8949.5
GR	1199.5	8989.0	1195.1	9005.1	1191.3	9141.2	1193.3	9161.8	1194.7	9167.9
GR	1193.7	9177.6	1190.6	9190.7	1190.4	9217.3	1191.3	9222.0	1189.3	9238.6
GR	1190.4	9361.8	1187.8	9437.8	1191.1	9467.9	1181.0	9503.2	1181.0	9799.0
GR	1189.0	9800.0	1189.0	9908.9	1189.0	10297.8	1193.9	10343.5	1192.1	10360.2
GR	1187.6	10374.6	1186.6	10495.9	1187.6	10526.0	1191.0	10541.7	1193.0	10600.4
GR	1189.2	10648.7	1190.5	10725.7	1189.2	10747.4	1192.0	10769.6	1193.8	10884.0
GR	1191.3	10913.5	1192.6	10942.3	1193.3	10978.9	1191.6	11001.4	1193.8	11018.7

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GR	1194.8	11074.7	1193.2	11110.2	1193.9	11147.9	1192.9	11175.9	1194.9	11305.7
GR	1193.2	11532.5	1194.0	11644.1	1192.2	11705.1	1194.0	12017.4	1193.5	12215.3
GR	1194.4	12220.4	1195.6	12414.0	1197.2	12438.2	1206.9	12475.0	1211.6	12485.0

ET	21.524	9.1	7.1				9603.9	10541	9603.9	10572.6
X1	21.524	69	9604.0	10540.4	485	425	491.44			
GR	1194.5	8096.9	1197.9	8136.1	1196	8210.6	1196.7	8238.8	1199.2	8260.9
GR	1199.3	8280.5	1195.9	8294.2	1196.9	8382.3	1200.4	8392.6	1205.2	8422.5
GR	1198.2	8542.8	1194.6	8581.5	1193.7	8640.5	1196.6	8647.3	1190.7	8665
GR	1190.6	8702.8	1194.8	8715.7	1194.5	8741.5	1196.3	8754.3	1196.1	8855
GR	1191.5	8876.7	1191.5	8929.1	1197.6	8948.6	1197	8990.2	1193.8	9012.5
GR	1195.3	9021.3	1194.1	9027.6	1194.1	9058.8	1197.3	9064.9	1195.8	9185.3
GR	1198.5	9215.4	1196.8	9254	1195.4	9259.8	1194.9	9275.9	1190.0	9280.0
GR	1190.0	9545.8	1194.1	9561.9	1190.6	9573.8	1190	9594.8	1193.6	9604
GR	1182	9632.4	1182	10061	1189	10062.2	1189	10486.8	1191.2	10540.4
GR	1192.9	10559.8	1196.7	10572.6	1192.4	10584.3	1193.8	10677.5	1187.2	10691.3
GR	1187.5	10744.6	1194.8	10763.8	1194.7	10840.4	1193	10861.3	1194.8	10882.8
GR	1194.9	11070.1	1192.5	11095.7	1190.8	11198.3	1193.8	11243	1195.2	11594.2
GR	1193.9	11639.9	1195.3	11794.6	1195	12097.6	1195.5	12409.6	1196.4	12718.2
GR	1198.3	12802.6	1222.7	12877.5	1223.1	12907.4	1228.1	12917.1		

ET	21.621	9.1	7.1				9670	10530	9607.6	10560.1
X1	21.621	67	9833.1	10412.0	545	370	511.28			

Effective Model Output  
AGUAFRIA.OUT

GR	1202.3	8823.8	1199.1	8874.1	1199.1	9025.5	1198.1	9043.9	1197.8	9224.8
GR	1197.4	9324.9	1200.0	9338.7	1201.0	9353.8	1196	9395.4	1196	9596.4
GR	1200.9	9607.6	1189.7	9627.5	1186.7	9662.5	1185.7	9667.8	1187.1	9695.0
GR	1182.5	9709.3	1182.5	9815.9	1184.6	9828.7	1186.4	9833.1	1182.5	9862.0
GR	1182.5	10403.7	1182.7	10412.0	1182.6	10431.5	1189	10440	1189	10509.0
GR	1196.8	10560.1	1198.3	10579.3	1194.0	10589.6	1193.9	10605.8	1193.4	10607.1
GR	1195.0	10643.6	1196.2	10652.5	1196.3	10703.4	1188.1	10723.3	1186.8	10761.1
GR	1192.4	10769.9	1194.9	10778.5	1194.5	10787.3	1195.9	10962.8	1195.7	11082.7
GR	1194.7	11117.1	1196.6	11288.4	1196.5	11330.7	1195.6	11365.3	1192.6	11384.3
GR	1192.7	11403.5	1194.9	11434.2	1194.1	11474.7	1195.3	11509.5	1194.5	11541.6
GR	1196.1	11611.9	1196.5	11779.1	1196.3	11953.2	1195.7	12125.2	1195.8	12301.4
GR	1195.9	12470.1	1196.6	12672.7	1196.8	12847.5	1196.5	12957.5	1197.0	12997.9
GR	1199.3	13041.7	1197.6	13052.0	1198.7	13089.7	1201.7	13113.4	1207.9	13147.4
GR	1208.1	13168.6	1214.1	13198.1						

ET	21.716	9.1	7.1				9670	10500	9316.5	10900
X1	21.716	93	9918.5	10440.7	560	350	502.06			

GR	1203.5	9316.5	1202.4	9351.4	1200.0	9370.0	1188.6	9375.6	1188.5	9384.2
GR	1199.2	9393.9	1199.1	9411.5	1200.3	9444.3	1189.6	9409.8	1188.0	9420.6
GR	1196.2	9541.3	1196.8	9572.5	1194.2	9626.9	1193.6	9660.0	1192.3	9667.7
GR	1192.2	9677.1	1192.5	9692.1	1191.8	9714.8	1191.6	9761.0	1191.0	9799.0
GR	1191.9	9873.4	1193.1	9886.0	1192.9	9918.5	1185.5	9936.2	1186.7	9983.1
GR	1188.1	10058.0	1187.7	10083.2	1187.0	10102.2	1186.4	10110.5	1183.3	10122.4
GR	1184.9	10146.5	1185.1	10165.1	1188.1	10178.4	1188.0	10233.0	1183.1	10265.3
GR	1184.3	10307.1	1184.8	10311.7	1184.5	10364.1	1186.8	10379.6	1187.7	10427.6
GR	1188.1	10432.3	1191.0	10440.7	1190.8	10476.4	1188.7	10488.6	1189.9	10524.4
GR	1187.9	10561.8	1186.1	10568.8	1185.7	10592.5	1187.8	10611.9	1188.1	10617.1
GR	1197.9	10646.3	1197.6	10710.5	1196.2	10796.0	1197.0	10881.6	1197.4	11013.1
GR	1196.8	11105.5	1196.5	11240.2	1197.4	11344.5	1197.9	11404.7	1197.8	11451.8
GR	1196.8	11471.4	1196.9	11488.5	1195.2	11502.2	1194.7	11515.8	1194.4	11548.9
GR	1195.5	11571.3	1196.2	11606.1	1196.4	11636.9	1195.3	11732.2	1197.8	11748.1

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GR	1198.1	11776.7	1197.5	11791.1	1197.8	11860.0	1197.5	11908.2	1197.7	12022.3
GR	1196.7	12136.4	1196.3	12250.4	1196.7	12396.7	1197.1	12509.7	1196.9	12649.9
GR	1197.5	12763.7	1197.7	12820.8	1197.5	12934.8	1197.8	13048.9	1198.0	13148.9
GR	1199.0	13225.8	1198.8	13231.9	1198.0	13236.7	1198.7	13250.9	1204.3	13267.7
GR	1206.7	13276.4	1213.4	13296.9	1214.4	13320.7				

NC	.045	.055	.035				9640	10600	9632.5	10775.5
ET	21.798	9.1	7.1							
X1	21.798	95	9649.8	10299.7	450	410	436.18			
GR	1198.9	9632.5	1196.2	9649.8	1194.3	9660.7	1194.3	9664.9	1193.4	9685.3
GR	1193.1	9727.9	1193.2	9748.2	1192.6	9778.0	1191.9	9797.0	1191.9	9806.7
GR	1192.7	9824.1	1192.2	9854.7	1190.9	9882.6	1190.9	9890.3	1188.7	9956.7
GR	1188.0	10020.5	1188.3	10051.9	1189.3	10073.8	1189.5	10085.4	1189.8	10091.5
GR	1189.9	10102.3	1190.6	10118.1	1190.0	10136.8	1193.5	10148.8	1193.4	10157.2
GR	1192.6	10175.8	1192.9	10187.3	1195.5	10254.7	1195.8	10281.9	1195.4	10299.7
GR	1195.9	10322.5	1194.7	10331.7	1192.9	10340.7	1193.1	10347.9	1193.4	10398.8
GR	1193.3	10401.1	1192.5	10404.9	1190.2	10422.2	1190.2	10437.9	1189.0	10506.9
GR	1188.8	10510.4	1185.9	10540.4	1186.5	10568.3	1186.4	10598.8	1192.4	10618.3
GR	1193.4	10681.2	1192.6	10693.8	1192.0	10697.7	1196.5	10737.7	1199.2	10775.5
GR	1199.1	10841.7	1198.7	10913.9	1198.8	10997.8	1199.2	11076.4	1199.9	11132.9
GR	1198.9	11151.6	1199.8	11189.3	1199.7	11249.1	1199.2	11323.2	1198.6	11358.7
GR	1199.4	11415.2	1199.0	11439.7	1195.6	11452.4	1195.1	11482.6	1196.6	11503.9
GR	1196.4	11535.1	1198.4	11553.1	1198.8	11584.6	1198.7	11641.0	1197.7	11702.6
GR	1197.0	11734.0	1198.1	11768.0	1198.7	11801.3	1198.9	11979.8	1198.6	12116.6
GR	1198.7	12249.0	1198.6	12360.2	1198.8	12487.9	1199.1	12600.9	1199.2	12657.3
GR	1199.0	12693.5	1199.2	12826.7	1199.4	12915.7	1199.2	13016.3	1199.5	13137.9
GR	1199.9	13249.0	1199.7	13281.6	1200.2	13300.7	1201.3	13328.2	1201.0	13335.3
GR	1200.8	13374.7	1212.8	13397.7	1215.3	13403.0	1216.0	13407.6	1216.6	13409.1

ET	21.893	9.1	7.1				9558.7	10680	9546.7	11050
X1	21.893	93	9558.8	10146.5	485	515	501.19			
GR	1200.4	9546.7	1199.5	9548.9	1201.2	9558.8	1194.2	9576.0	1195.0	9660.8
GR	1193.5	9708.0	1193.3	9788.3	1192.3	9798.3	1193.8	9857.6	1193.6	9914.6
GR	1189.8	10013.5	1187.4	10023.1	1187.6	10040.6	1191.5	10070.2	1191.0	10096.6
GR	1195.0	10112.4	1196.7	10146.5	1197.2	10313.7	1197.6	10374.9	1194.0	10402.2
GR	1196.6	10443.8	1195.8	10529.3	1192.0	10545.6	1192.0	10653.2	1193.6	10674.7
GR	1194.4	10681.1	1193.8	10686.8	1195.3	10710.7	1195.3	10729.1	1201.1	10751.6
GR	1200.1	10758.1	1202.1	10912.2	1202.4	11070.0	1202.6	11098.0	1197.7	11126.5
GR	1198.0	11174.4	1197.1	11182.9	1199.7	11204.9	1201.2	11232.0	1201.0	11256.9
GR	1198.2	11281.1	1199.3	11293.4	1198.7	11313.6	1200.8	11397.0	1200.5	11454.0
GR	1198.7	11486.0	1200.7	11625.1	1200.4	11796.9	1200.9	11913.0	1199.9	12012.6
GR	1200.7	12055.2	1205.4	12105.2	1207.4	12120.2	1208.8	12124.9	1207.4	12130.3
GR	1203.7	12134.7	1180.2	12172.8	1176.8	12177.0	1173.5	12223.1	1173.5	12236.4
GR	1169.3	12248.6	1167.7	12263.0	1171.1	12283.8	1169.8	12295.3	1165.9	12311.2
GR	1161.5	12326.4	1161.2	12423.3	1163.6	12524.8	1194.5	12550.3	1195.6	12574.7
GR	1203.6	12589.8	1201.3	12595.1	1201.5	12701.2	1199.1	12771.4	1201.4	12782.6
GR	1206.6	12820.3	1201.8	12861.9	1202.0	12938.0	1202.9	12958.4	1205.5	12964.5
GR	1205.6	12967.9	1203.2	12974.5	1203.6	12980.5	1209.1	12994.1	1209.3	13024.5
GR	1205.0	13043.5	1206.6	13126.4	1203.6	13135.0	1204.0	13306.5	1205.1	13378.9
GR	1204.2	13388.4	1202.5	13397.1	1219.7	13455.6				

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ET	21.986	9.1	7.1				9250.4	10665	9250.4	10915
X1	21.986	92	9806.9	10149.8	450	505	490.74			
GR	1204.8	9250.4	1205.6	9253.3	1194.7	9286.4	1195.5	9448.9	1197.0	9471.1
GR	1197.9	9643.8	1195.0	9659.0	1197.7	9806.9	1196.5	9904.0	1194.2	9917.8
GR	1193.2	10090.7	1191.8	10117.0	1199.2	10149.8	1199.7	10243.4	1198.4	10265.9

GR	1197.4	10380.0	1192.9	10394.0	1191.9	10467.0	1196.8	10492.0	1196.5	10527.0
GR	1194.6	10544.0	1199.8	10749.0	1201.4	10915.6	1199.2	10960.2	1200.0	11042.0
GR	1199.0	11130.3	1201.7	11147.5	1203.4	11248.7	1202.1	11290.5	1202.8	11396.2
GR	1209.8	11411.3	1201.8	11417.7	1173.5	11433.4	1171.8	11465.6	1169.4	11489.0
GR	1167.2	11498.5	1166.5	11511.3	1164.3	11522.7	1164.5	11725.5	1164.7	11775.8
GR	1169.1	11790.5	1172.7	11813.8	1168.6	11829.1	1165.4	11833.4	1168.1	11884.2
GR	1179.5	11900.4	1188.2	11911.3	1187.8	11917.9	1183.1	11941.7	1184.0	11943.0
GR	1179.9	11966.9	1169.2	12000.2	1168.0	12054.8	1184.6	12115.2	1185.1	12124.2
GR	1187.2	12131.9	1186.7	12133.7	1182.8	12135.7	1177.9	12150.1	1176.1	12187.8
GR	1177.6	12208.2	1177.4	12226.9	1173.0	12237.9	1167.2	12266.6	1166.1	12268.3
GR	1163.0	12308.0	1161.3	12525.1	1161.9	12620.0	1174.2	12641.1	1172.8	12649.6
GR	1160.1	12680.3	1176.7	12704.8	1192.9	12726.0	1187.6	12736.2	1190.5	12761.7
GR	1194.7	12767.8	1198.2	12770.6	1202.8	12776.8	1207.0	12780.9	1208.4	12784.7
GR	1206.2	12789.3	1204.4	12790.7	1205.2	12948.3	1213.9	12974.4	1214.4	13001.7
GR	1206.1	13027.1	1207.1	13240.4	1208.3	13253.1	1206.9	13268.5	1213.0	13283.6
GR	1221.6	13325.1	1221.7	13331.6						

ET	22.082	9.1	7.1				9010.7	10605	9010.7	11059
X1	22.082	93	9931.7	10230.6	465	525	503.20			
GR	1201.9	9010.7	1199.9	9052.0	1195.8	9063.9	1197.9	9156.3	1197.6	9320.5
GR	1202.1	9382.2	1202.7	9399.4	1201.7	9429.3	1199.1	9442.8	1199.6	9676.3
GR	1198.7	9833.5	1198.2	9931.7	1194.9	9973.5	1196.1	10099.0	1195.5	10107.4
GR	1197.9	10127.6	1199.9	10230.6	1198.4	10290.4	1197.6	10292.8	1193.5	10342.8
GR	1196.2	10409.7	1196.0	10435.2	1194.6	10459.7	1187.4	10483.8	1188.8	10625.2
GR	1188.2	10686.2	1193.3	10702.8	1197.8	10725.7	1196.8	10727.2	1196.8	10729.6
GR	1195.1	10735.0	1193.3	10736.6	1190.3	10753.5	1193.7	10870.8	1193.0	10899.1
GR	1198.8	10922.0	1199.9	10947.3	1199.6	11047.4	1204.6	11059.2	1200.9	11066.2
GR	1202.2	11104.6	1204.0	11112.2	1204.7	11119.1	1204.5	11323.7	1205.2	11478.9
GR	1206.0	11555.5	1211.7	11574.8	1212.4	11585.4	1210.8	11592.3	1208.2	11618.5
GR	1206.1	11629.3	1206.8	11783.4	1207.1	11801.2	1209.4	11815.5	1208.7	11820.9
GR	1205.8	11827.8	1201.1	11844.6	1202.9	11923.6	1205.2	11962.4	1206.8	11971.3
GR	1207.3	11993.4	1221.3	12023.6	1221.4	12027.4	1210.6	12057.9	1213.3	12082.1
GR	1206.7	12096.6	1206.4	12111.8	1207.6	12119.8	1201.8	12147.3	1198.5	12210.2
GR	1197.7	12305.9	1207.3	12326.9	1202.9	12334.9	1204.7	12387.6	1204.4	12559.9
GR	1205.0	12577.9	1209.5	12597.9	1211.0	12634.5	1210.6	12652.5	1212.6	12673.6
GR	1216.5	12682.2	1216.9	12688.5	1214.6	12713.5	1212.6	12721.8	1204.2	12743.4
GR	1206.0	12800.1	1205.3	12859.6	1209.5	12885.4	1206.9	12945.5	1208.5	12961.5
GR	1208.0	13005.6	1219.1	13038.7	1221.7	13051.8				

GR POINTS MODIFIED - BOTTOM OF GRAVEL MINE RAISED TO ELIMINATE NON-EFFECTIVE FLOW AREA BETWEEN SECTIONS 22.177 TO 22.462.

ET	22.177	9.1	7.1				8765.7	10533.7	8765.7	10650
X1	22.177	89	9909.7	10533.6	510	490	506.29			
GR	1207.0	8765.7	1207.1	8786.8	1204.9	8844.5	1203.0	8855.1	1199.5	8865.5
GR	1199.8	8878.3	1197.7	9076.9	1201.5	9111.1	1201.8	9131.3	1203.9	9160.3
GR	1204.1	9366.4	1203.1	9432.5	1200.7	9451.7	1202.2	9529.3	1201.7	9586.2
GR	1202.1	9705.0	1200.6	9773.2	1199.6	9909.7	1197.1	10001.3	1196.9	10057.0
GR	1196.2	10078.7	1201.5	10089.5	1196.9	10231.7	1196.0	10350.6	1196.0	10510.5

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GR	1200.7	10533.6	1197.5	10557.0	1194.4	10565.7	1197.7	10653.0	1196.0	10668.4
GR	1193.8	10790.9	1194.5	10950.2	1197.8	10965.9	1202.7	10979.9	1202.4	11012.5
GR	1201.0	11024.0	1201.8	11036.9	1212.9	11068.5	1203.3	11092.5	1202.5	11126.9
GR	1202.8	11163.1	1207.3	11173.2	1206.9	11197.3	1205.9	11206.1	1207.0	11344.6
GR	1210.4	11352.1	1213.2	11360.4	1207.1	11376.6	1207.1	11600.9	1208.7	11813.7
GR	1213.6	11826.7	1214.6	11832.4	1212.5	11856.3	1214.4	11897.1	1212.8	11966.7
GR	1214.0	12077.6	1211.0	12191.7	1212.2	12252.6	1211.1	12304.1	1211.6	12311.6
GR	1210.8	12326.4	1213.5	12334.0	1206.8	12349.9	1206.8	12409.5	1212.7	12439.6
GR	1212.4	12476.5	1206.8	12489.2	1206.8	12564.8	1211.1	12576.8	1209.7	12583.4
GR	1207.7	12667.9	1213.9	12678.3	1214.7	12678.9	1214.2	12696.7	1210.2	12709.6
GR	1208.5	12713.4	1208.1	12737.7	1220.1	12763.9	1219.5	12790.0	1216.3	12811.3
GR	1219.0	12823.9	1216.4	12834.3	1212.8	12843.9	1213.0	12857.8	1211.9	12881.8
GR	1209.2	12892.3	1208.1	12903.1	1220.1	12936.6	1220.4	12953.7		

ET	22.273	9.1	7.1				8965.3	10635.9	8965.3	10635.9
X1	22.273	94	9923.2	10635.8	505	485	504.12			
GR	1216.5	8965.3	1200.0	8982.4	1199.8	9015.1	1199.7	9021.0	1199.8	9030.0
GR	1200.0	9052.1	1202.0	9138.8	1204.0	9201.5	1204.8	9255.9	1206.1	9298.0
GR	1206.3	9317.7	1205.7	9354.0	1204.5	9390.3	1204.6	9439.9	1202.8	9499.4
GR	1203.1	9524.0	1204.8	9539.1	1205.0	9627.7	1204.1	9638.1	1205.0	9680.9
GR	1204.0	9792.7	1204.0	9923.2	1199.5	9935.3	1197.6	9969.1	1199.0	10007.8
GR	1199.0	10507.8	1200.4	10556.8	1198.0	10615.3	1209.0	10635.8	1208.0	10645.9
GR	1208.4	10662.1	1208.0	10698.5	1208.0	10733.4	1207.2	10770.6	1207.2	10815.5
GR	1207.8	10851.0	1209.1	10881.2	1210.1	10924.5	1210.7	10966.2	1214.0	10975.8
GR	1187.6	11024.3	1188.4	11028.5	1191.5	11086.2	1194.5	11132.1	1194.9	11169.2
GR	1193.4	11262.6	1193.4	11294.0	1203.8	11320.8	1212.0	11335.7	1208.7	11349.1
GR	1208.5	11380.8	1207.7	11389.2	1207.1	11399.1	1207.3	11412.6	1209.5	11427.7
GR	1209.2	11439.0	1209.5	11497.8	1210.5	11533.4	1210.8	11615.4	1209.3	11733.2
GR	1209.6	11748.7	1209.4	11791.8	1210.4	11909.4	1210.0	11943.9	1210.3	11957.2
GR	1209.8	11969.4	1210.8	12001.9	1213.0	12027.0	1211.9	12041.4	1210.5	12052.0
GR	1208.8	12059.2	1209.0	12075.3	1208.5	12114.5	1208.8	12187.2	1208.5	12256.0
GR	1209.1	12284.0	1211.1	12321.0	1210.8	12351.0	1209.0	12408.3	1209.7	12446.0
GR	1209.1	12497.4	1208.9	12592.2	1209.3	12636.1	1208.9	12719.4	1209.3	12732.8
GR	1208.9	12742.0	1208.8	12763.6	1209.5	12833.2	1216.5	12853.8	1209.4	12871.7
GR	1208.9	12885.1	1215.7	12919.6	1218.3	12936.6	1218.8	12947.5		

QT	2	33000	33000				9008.1	11110	9008.1	11110
ET	22.368	9.1	7.1				504.65			
X1	22.368	75	9703.7	10529.3	510	465	504.65			
GR	1214.5	9008.1	1205.2	9017.0	1200.3	9020.4	1200.9	9089.9	1202.6	9110.2
GR	1202.7	9214.9	1205.0	9236.2	1205.5	9249.1	1204.8	9282.0	1206.4	9294.5
GR	1207.0	9335.0	1205.5	9350.4	1206.4	9423.4	1206.8	9654.3	1206.8	9703.7
GR	1204.5	9730.2	1204.5	9855.8	1204.0	9885.1	1203.1	9896.4	1200.8	9906.6

Effective Model Output  
AGUAFRIA.OUT

GR	1201.7	9934.0	1199.6	9985.9	1201.9	10016.8	1200.9	10066.8	1202.8	10116.0
GR	1201.4	10205.3	1199.6	10254.2	1198.8	10262.0	1198.6	10311.6	1200.2	10393.7
GR	1199.9	10407.0	1198.5	10419.3	1198.6	10428.3	1202.7	10456.2	1203.4	10465.0
GR	1204.8	10471.5	1205.9	10498.1	1207.1	10510.5	1212.9	10529.3	1201.0	10567.3
GR	1203.0	10990.7	1201.0	11217.7	1215.0	11252.0	1211.8	11262.8	1212.0	11278.9
GR	1219.8	11306.6	1230.1	11333.1	1241.3	11359.2	1239.2	11399.9	1229.4	11420.1
GR	1227.8	11450.2	1224.1	11481.0	1211.3	11502.8	1205.9	11519.5	1209.4	11563.1
GR	1211.4	11778.9	1210.3	11978.9	1208.3	12003.0	1208.2	12012.5	1209.4	12025.6
GR	1210.3	12028.0	1210.4	12251.3	1210.6	12455.0	1210.8	12713.0	1210.8	12793.2
GR	1208.3	12801.5	1208.2	12809.5	1213.1	12817.3	1211.4	12866.3	1218.0	12880.8
GR	1209.9	12900.1	1212.2	12939.9	1210.1	12950.5	1220.9	12988.8	1220.9	12994.1

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NC	.045	.045	.035							
ET	22.462	9.1	7.1				9040.3	11760	9040.3	11760
X1	22.462	77	9887.4	10318.9	515	450	496.37			
GR	1214.1	9040.3	1204.2	9050.4	1200.9	9054.7	1201.9	9096.6	1203.8	9113.8
GR	1203.8	9121.3	1202.8	9131.0	1202.7	9157.9	1205.0	9180.8	1203.4	9243.2
GR	1205.9	9269.8	1205.1	9286.9	1206.8	9364.8	1206.9	9426.2	1208.3	9443.7
GR	1208.8	9457.7	1208.0	9482.3	1206.3	9500.7	1206.7	9569.8	1208.1	9630.4
GR	1208.0	9753.1	1206.3	9887.4	1203.2	9904.4	1200.3	9916.7	1202.4	9965.0
GR	1202.2	9995.7	1203.8	10034.6	1204.6	10185.7	1204.1	10207.9	1202.3	10213.2
GR	1203.0	10277.6	1202.5	10298.1	1208.7	10318.9	1209.5	10430.6	1208.5	10528.4
GR	1207.3	10553.7	1206.1	10567.0	1203.7	10578.9	1203.5	10588.1	1206.1	10597.7
GR	1205.5	10693.6	1206.9	10714.4	1206.8	10754.0	1205.9	10778.0	1210.3	10789.3
GR	1203.0	10806.5	1203.0	11063.7	1203.1	11084.2	1203.5	11091.6	1203.0	11108.3
GR	1205.2	11122.0	1205.4	11127.3	1204.6	11132.0	1205.1	11135.9	1203.0	11141.3
GR	1203.0	11143.1	1203.0	11674.7	1203.1	11712.6	1203.2	11750.2	1205.2	11762.2
GR	1205.6	11785.7	1205.5	11850.5	1210.5	11868.3	1210.3	11895.4	1211.2	12107.3
GR	1211.4	12348.4	1212.1	12564.8	1212.3	12672.9	1213.1	12727.6	1213.3	12937.8
GR	1213.2	12969.2	1214.0	12976.0	1214.8	13009.5	1218.7	13078.4	1218.7	13121.7
GR	1217.8	13132.1	1225.6	13192.8						

ET	22.558		7.1				9065.5	12000		
X1	22.558	90	9613.8	10050.2	535	420	502.91			
GR	1221.9	9065.5	1202.4	9088.0	1202.5	9111.8	1206.1	9137.5	1206.5	9180.6
GR	1205.8	9235.0	1206.8	9327.2	1208.1	9398.2	1207.5	9446.0	1206.7	9458.9
GR	1208.8	9494.5	1207.1	9513.3	1208.8	9555.4	1208.5	9613.8	1206.7	9646.4
GR	1207.1	9669.4	1206.6	9678.8	1203.8	9690.1	1204.4	9708.0	1203.5	9742.4
GR	1203.4	9833.5	1203.9	9882.1	1206.3	9911.4	1206.3	9942.4	1205.7	9991.1
GR	1203.4	9997.9	1204.3	10025.9	1207.7	10050.2	1208.5	10084.6	1210.9	10100.6
GR	1211.3	10214.4	1210.9	10268.9	1209.7	10312.2	1210.3	10323.3	1211.1	10353.0
GR	1210.3	10432.4	1211.0	10486.5	1210.7	10505.3	1209.2	10540.9	1210.4	10563.4
GR	1207.5	10576.0	1206.6	10596.1	1210.7	10610.6	1207.4	10649.7	1208.0	10704.2
GR	1207.2	10739.7	1207.1	10770.3	1208.1	10813.0	1208.8	10886.0	1210.1	10921.8
GR	1209.2	10954.6	1208.7	10993.6	1209.7	11056.1	1209.9	11152.5	1208.4	11193.7
GR	1207.7	11197.1	1207.5	11248.3	1206.5	11290.1	1207.9	11309.4	1209.3	11347.3
GR	1209.0	11375.8	1211.7	11397.6	1211.8	11418.4	1209.2	11465.1	1210.4	11532.2
GR	1210.6	11574.8	1209.8	11613.7	1206.0	11624.5	1203.6	11632.3	1205.1	11683.6
GR	1204.6	11723.6	1204.6	11761.6	1204.3	11792.4	1204.4	11813.2	1207.4	11822.6
GR	1207.6	11846.8	1206.6	11900.2	1206.7	11955.7	1207.5	11996.2	1212.0	12013.8
GR	1212.2	12118.9	1212.5	12220.3	1212.9	12346.2	1213.3	12499.8	1214.2	12608.6
GR	1215.0	12732.4	1215.2	12766.8	1221.8	12826.3	1224.0	12854.5	1223.8	12866.6

ET	22.651		7.1				9016.1	12095		
X1	22.651	92	9735.3	10132.5	490	450	492.10			
GR	1220.0	9016.1	1209.8	9027.7	1205.5	9032.9	1207.9	9109.5	1207.9	9217.3
GR	1208.0	9234.7	1206.0	9294.9	1204.9	9377.7	1204.8	9397.2	1207.4	9421.5
GR	1207.6	9445.7	1206.3	9480.0	1206.4	9486.0	1209.9	9521.2	1210.4	9546.9
GR	1208.9	9616.7	1208.7	9653.7	1207.7	9689.9	1208.5	9735.3	1208.4	9756.0
GR	1208.8	9795.5	1207.8	9810.0	1207.9	9863.7	1207.5	9926.9	1206.3	10004.4
GR	1205.4	10042.2	1205.3	10083.1	1204.9	10110.4	1205.8	10120.0	1208.6	10132.5
GR	1212.1	10152.5	1212.7	10186.9	1212.1	10234.5	1212.5	10311.4	1212.6	10348.5
GR	1212.3	10376.9	1212.4	10406.9	1210.6	10415.2	1211.3	10430.2	1212.7	10505.6
GR	1209.1	10520.2	1207.4	10593.8	1210.1	10605.3	1209.6	10639.6	1210.5	10725.6
GR	1211.0	10833.3	1210.0	10941.0	1208.7	10979.5	1210.2	10994.9	1211.1	11064.6

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GR	1211.4	11157.2	1210.8	11210.3	1211.6	11264.2	1210.0	11320.2	1212.3	11341.0
GR	1210.1	11398.6	1211.1	11428.3	1211.8	11479.7	1212.6	11508.1	1212.4	11530.8
GR	1211.7	11541.1	1208.4	11561.7	1208.5	11591.1	1207.5	11601.7	1205.5	11616.8
GR	1205.8	11641.3	1205.4	11695.2	1205.4	11741.9	1207.7	11767.3	1208.0	11794.4
GR	1206.8	11805.5	1207.1	11834.7	1208.1	11844.2	1209.9	11965.6	1209.8	12019.5
GR	1208.6	12073.3	1208.9	12088.6	1212.9	12099.2	1213.6	12195.6	1214.0	12272.5
GR	1214.9	12395.5	1215.5	12426.3	1216.0	12503.5	1217.1	12540.9	1218.9	12568.6
GR	1219.1	12611.3	1218.4	12624.9	1222.6	12651.3	1223.5	12666.5	1227.7	12705.8
GR	1226.9	12718.7	1226.9	12727.8						

ET	22.745		7.1				8903.1	12094		
X1	22.745	92	9797.7	10147.8	495	400	496.32			
GR	1225.1	8903.1	1207.9	8919.7	1208.2	8963.5	1207.5	9060.1	1207.7	9092.9
GR	1206.4	9114.7	1206.1	9143.1	1208.9	9172.4	1211.8	9209.3	1212.0	9328.1
GR	1211.9	9402.0	1212.9	9418.9	1212.4	9534.3	1211.5	9563.3	1211.0	9595.9
GR	1211.2	9640.5	1210.6	9677.3	1210.8	9692.3	1209.6	9711.3	1209.4	9723.7
GR	1211.0	9745.9	1211.9	9797.7	1211.1	9835.1	1208.8	9954.1	1207.1	9981.3
GR	1207.0	10008.3	1206.3	10036.6	1207.2	10049.9	1207.2	10119.2	1210.2	10147.8
GR	1210.8	10219.0	1210.4	10251.5	1211.9	10260.4	1211.3	10309.2	1211.7	10324.5
GR	1212.5	10377.1	1211.5	10388.9	1212.2	10429.8	1212.2	10482.5	1211.9	10494.4
GR	1210.2	10515.1	1210.5	10539.3	1212.7	10587.8	1212.6	10693.2	1212.4	10746.0
GR	1212.9	10851.1	1210.4	10874.3	1210.1	10904.0	1212.0	10941.3	1212.2	10956.6

Effective Model Output  
AGUAFRIA.OUT

GR	1211.7	11009.3	1211.2	11028.1	1212.9	11064.9	1212.4	11099.8	1210.7	11127.4
GR	1212.4	11180.0	1212.7	11259.2	1212.5	11272.7	1212.8	11327.7	1209.3	11351.0
GR	1208.3	11378.9	1207.9	11394.3	1206.2	11399.0	1207.0	11430.8	1206.0	11521.2
GR	1209.3	11533.2	1209.6	11536.1	1210.0	11641.5	1210.0	11668.6	1208.1	11687.0
GR	1210.0	11694.4	1209.8	11721.1	1210.6	11746.8	1211.1	11799.5	1210.6	11904.9
GR	1210.8	11957.6	1210.1	12011.8	1209.3	12027.9	1209.6	12051.8	1211.3	12062.3
GR	1211.9	12081.2	1212.6	12088.4	1213.4	12113.3	1214.8	12123.8	1214.9	12168.3
GR	1215.3	12220.9	1215.3	12248.1	1215.9	12273.6	1216.2	12326.3	1217.0	12371.3
GR	1222.8	12402.3	1222.5	12409.2						

ET	22.839		7.1				8721.1	11833		
X1	22.839	94	9701.8	10072.6	495	415	497.66			
GR	1219.4	8721.1	1208.0	8736.0	1208.8	8773.5	1208.3	8903.0	1208.0	8931.6
GR	1208.3	8938.1	1210.5	8956.6	1211.0	9035.9	1210.6	9064.3	1212.6	9085.2
GR	1212.5	9125.5	1214.5	9219.4	1214.8	9241.2	1213.2	9260.8	1214.7	9279.7
GR	1213.4	9298.8	1213.6	9307.1	1212.9	9396.4	1212.4	9406.7	1213.3	9449.0
GR	1213.6	9552.9	1213.6	9612.1	1214.5	9656.9	1214.3	9701.8	1211.2	9723.6
GR	1211.4	9741.1	1210.1	9772.6	1210.2	9812.7	1208.7	9905.9	1209.6	9968.6
GR	1209.1	10004.4	1209.6	10009.2	1209.9	10021.1	1211.5	10029.7	1213.1	10072.6
GR	1212.4	10176.5	1211.6	10200.8	1211.4	10256.0	1211.9	10289.5	1211.6	10330.5
GR	1212.9	10436.3	1213.7	10540.2	1213.7	10592.2	1214.3	10654.0	1213.8	10696.1
GR	1212.9	10714.8	1211.6	10735.7	1212.3	10741.2	1213.8	10767.0	1215.3	10801.9
GR	1215.2	10805.8	1211.5	10842.5	1212.3	10852.3	1213.2	10903.9	1213.1	10927.4
GR	1213.9	11007.9	1214.1	11099.6	1213.2	11146.4	1209.2	11157.3	1207.3	11179.1
GR	1207.5	11222.5	1208.5	11258.6	1207.9	11290.0	1210.8	11302.1	1211.6	11371.6
GR	1210.4	11423.6	1211.3	11443.8	1211.7	11475.5	1211.1	11528.0	1212.7	11579.4
GR	1212.9	11626.0	1212.5	11666.6	1212.7	11683.4	1212.1	11735.3	1212.3	11777.6
GR	1210.5	11785.9	1210.6	11812.1	1214.2	11827.9	1214.8	11858.3	1215.1	11891.2
GR	1216.5	11940.8	1215.4	11952.0	1216.7	11960.2	1217.5	12047.1	1216.5	12067.3
GR	1216.3	12076.8	1217.5	12083.2	1217.5	12095.0	1218.4	12117.4	1218.5	12128.2
GR	1218.1	12152.5	1218.4	12159.4	1224.1	12195.7	1225.2	12219.9		

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ET	22.935		7.1				8478.1	11640		
X1	22.935	94	9530.2	10351.6	465	440	501.48			
GR	1220.0	8478.1	1216.5	8483.9	1209.0	8492.7	1209.0	8541.4	1209.8	8593.0
GR	1209.5	8623.7	1211.8	8638.1	1212.0	8644.8	1211.3	8746.3	1212.4	8772.4
GR	1212.5	8782.3	1210.6	8800.5	1210.0	8839.6	1211.6	8869.5	1213.5	8894.6
GR	1214.2	8936.6	1212.6	8962.1	1212.4	8974.7	1214.6	8991.9	1213.7	9001.1
GR	1213.4	9012.1	1215.7	9027.2	1216.0	9058.6	1214.9	9162.0	1214.4	9213.7
GR	1215.0	9265.5	1215.1	9317.2	1215.4	9331.4	1214.8	9372.3	1216.3	9413.3
GR	1216.3	9472.4	1214.8	9530.2	1210.6	9542.3	1212.1	9575.8	1211.3	9622.6
GR	1211.4	9679.2	1211.9	9699.5	1212.1	9730.9	1213.2	9773.4	1212.1	9822.2
GR	1213.0	9886.1	1213.3	9937.8	1211.6	10017.5	1211.9	10118.3	1211.9	10145.4
GR	1212.2	10156.3	1209.5	10173.6	1210.0	10241.7	1211.4	10250.1	1214.0	10262.0
GR	1214.4	10351.6	1214.2	10403.3	1215.4	10454.7	1215.2	10558.7	1215.2	10662.0
GR	1215.1	10721.9	1215.5	10762.8	1214.4	10819.8	1215.1	10857.4	1214.7	10865.3
GR	1215.6	10897.6	1209.0	10913.6	1209.1	10955.1	1211.9	10967.7	1211.9	10984.9
GR	1209.7	11072.3	1209.9	11083.9	1213.0	11096.7	1213.5	11191.9	1212.7	11282.6
GR	1213.0	11356.1	1214.2	11458.1	1214.1	11547.1	1213.0	11596.6	1213.2	11605.7
GR	1212.0	11613.2	1211.7	11626.3	1214.6	11638.0	1213.8	11653.6	1216.3	11693.4
GR	1213.8	11741.8	1214.3	11745.7	1214.6	11761.9	1215.8	11785.2	1216.8	11831.6
GR	1217.0	11855.2	1217.7	11866.3	1217.2	11872.6	1218.8	11915.0	1223.5	11955.0
GR	1225.3	11975.5	1225.9	12008.2	1227.6	12033.7	1228.2	12069.7		

ET	23.029	9.1	7.1				8450	11460	8450	11893.6
X1	23.029	94	9859.0	10307.0	450	435	500.75			
GR	1225.0	8171.1	1211.1	8185.5	1210.3	8186.5	1210.1	8287.1	1210.9	8331.4
GR	1210.1	8363.9	1211.4	8391.9	1212.5	8404.8	1213.1	8434.8	1212.4	8488.8
GR	1213.9	8502.6	1215.0	8538.0	1214.6	8589.7	1215.3	8641.3	1214.5	8716.9
GR	1214.5	8741.2	1213.9	8759.4	1213.6	8799.3	1217.0	8825.8	1217.5	8847.8
GR	1217.1	8899.4	1216.2	8951.0	1216.4	8999.7	1216.2	9054.3	1216.4	9127.6
GR	1215.7	9209.2	1214.8	9267.9	1211.8	9278.5	1212.1	9312.4	1214.0	9363.0
GR	1213.3	9436.4	1215.2	9460.0	1215.6	9502.1	1217.6	9528.7	1217.7	9579.4
GR	1217.2	9702.6	1216.9	9725.4	1218.2	9777.0	1217.0	9828.8	1217.5	9859.0
GR	1213.8	9873.5	1212.5	9931.8	1212.8	9953.5	1213.2	9961.9	1213.7	9966.2
GR	1214.0	9972.7	1214.0	10024.8	1213.3	10040.6	1213.8	10057.1	1214.3	10090.0
GR	1214.6	10138.4	1214.1	10190.0	1213.3	10241.6	1211.8	10258.5	1212.3	10291.1
GR	1217.0	10307.0	1217.2	10344.9	1216.7	10396.5	1216.4	10499.8	1216.3	10617.9
GR	1216.4	10645.2	1211.5	10656.9	1210.8	10706.3	1212.1	10757.9	1211.8	10812.2
GR	1212.8	10850.2	1212.7	10864.0	1213.7	10876.0	1214.8	11021.7	1214.5	11063.7
GR	1216.0	11085.1	1214.4	11096.4	1214.2	11207.1	1215.1	11223.8	1215.2	11240.8
GR	1214.5	11252.0	1215.1	11274.1	1214.4	11325.8	1214.5	11338.3	1216.0	11357.7
GR	1214.9	11429.4	1214.9	11445.3	1216.5	11459.5	1216.6	11550.8	1217.3	11604.6
GR	1217.4	11628.7	1218.4	11633.5	1220.0	11648.0	1219.9	11738.8	1220.7	11790.4
GR	1222.2	11852.2	1221.5	11856.6	1222.2	11871.7	1224.8	11893.6		

ET	23.124	9.1	7.1				8580	11160	8580	11903
X1	23.124	95	9822.6	10216.3	485	450	499.39			
GR	1232.0	8110.2	1216.0	8128.6	1213.4	8140.2	1213.8	8179.8	1213.8	8229.6
GR	1213.5	8243.9	1213.7	8278.2	1214.2	8308.9	1213.7	8332.4	1212.0	8362.9
GR	1211.9	8370.7	1214.3	8401.9	1213.5	8415.5	1213.5	8454.6	1214.6	8478.9
GR	1216.5	8506.3	1216.8	8539.0	1215.9	8547.5	1215.7	8580.9	1215.2	8617.1
GR	1218.0	8634.7	1219.4	8692.1	1219.2	8743.5	1218.4	8783.9	1217.0	8945.1
GR	1215.4	8971.0	1215.6	9025.2	1216.8	9051.8	1216.5	9103.2	1216.6	9153.4
GR	1214.8	9160.6	1215.6	9205.9	1215.6	9229.5	1214.6	9275.9	1212.8	9288.8

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GR	1214.5	9308.7	1215.5	9338.4	1216.0	9381.1	1215.3	9444.3	1216.0	9460.6
GR	1215.8	9522.5	1215.5	9548.8	1214.5	9572.6	1219.4	9592.6	1218.7	9616.4

Effective Model Output  
AGUAFRIA.OUT

GR	1219.3	9650.9	1219.1	9668.4	1219.7	9770.0	1220.3	9822.6	1219.7	9953.6
GR	1215.3	9963.5	1215.1	10013.8	1217.2	10029.3	1217.5	10064.2	1217.2	10084.2
GR	1214.4	10132.9	1213.9	10163.3	1213.9	10201.9	1217.9	10216.3	1218.0	10387.9
GR	1217.3	10490.6	1217.7	10569.2	1217.4	10603.1	1211.9	10617.9	1212.3	10693.9
GR	1212.8	10712.9	1214.9	10751.6	1215.0	10798.9	1214.1	10842.9	1215.1	10870.3
GR	1215.8	10904.7	1216.1	10953.1	1215.4	11017.4	1216.0	11055.7	1214.9	11140.4
GR	1219.2	11155.6	1218.8	11210.0	1218.9	11261.4	1219.4	11312.8	1218.7	11364.2
GR	1218.7	11467.0	1218.9	11493.0	1221.7	11518.1	1222.3	11573.6	1223.8	11612.9
GR	1221.6	11639.9	1221.2	11672.5	1221.5	11724.1	1222.6	11758.0	1222.4	11765.7
GR	1231.7	11831.5	1232.3	11867.4	1231.9	11878.3	1233.0	11900.5	1232.8	11903.0

ET	23.219	9.1	7.1				8860	11070	8860	11681.3
X1	23.219	93	9549.2	10113.9	490	500	500.52			
GR	1225.0	8130.5	1214.0	8151.1	1219.0	8161.0	1218.6	8162.3	1217.0	8173.5
GR	1214.7	8186.7	1214.5	8253.3	1217.3	8269.6	1217.9	8314.0	1217.2	8365.5
GR	1217.4	8416.9	1216.9	8446.4	1216.9	8465.7	1216.5	8479.8	1215.7	8488.0
GR	1215.6	8611.5	1217.2	8625.4	1220.1	8662.5	1220.1	8737.8	1218.9	8850.5
GR	1217.9	8879.7	1218.2	8964.0	1219.0	8984.1	1218.8	9023.8	1216.3	9081.6
GR	1217.5	9112.0	1217.3	9193.9	1217.8	9205.1	1215.5	9219.5	1215.8	9268.3
GR	1219.3	9293.9	1220.4	9394.0	1219.2	9547.6	1219.2	9549.2	1215.1	9560.8
GR	1217.4	9605.0	1216.8	9625.9	1217.4	9651.1	1216.7	9699.4	1215.9	9717.7
GR	1217.6	9729.7	1218.4	9750.1	1217.7	9780.1	1219.0	9804.8	1220.0	9857.9
GR	1220.4	9908.3	1217.7	9959.7	1217.3	9981.7	1214.7	10002.4	1215.1	10010.5
GR	1215.5	10085.9	1218.7	10113.9	1218.2	10156.9	1219.5	10177.0	1219.6	10216.8
GR	1219.2	10262.7	1219.4	10282.1	1221.1	10293.7	1222.0	10306.1	1219.9	10318.3
GR	1219.6	10371.1	1220.3	10422.5	1219.3	10478.9	1219.0	10558.8	1217.2	10578.3
GR	1217.4	10628.2	1216.8	10710.4	1217.4	10731.1	1216.9	10802.1	1215.4	10819.3
GR	1216.1	10893.4	1215.9	10976.3	1214.8	11047.7	1221.2	11061.1	1221.4	11100.7
GR	1220.9	11142.9	1220.8	11296.8	1221.3	11346.7	1221.8	11350.5	1220.8	11396.7
GR	1219.1	11423.2	1220.9	11443.1	1221.8	11502.5	1221.8	11605.3	1222.3	11674.7
GR	1221.2	11681.3	1222.5	11684.9	1222.0	11708.2	1223.8	11814.1	1224.4	11823.5
GR	1223.9	11829.5	1224.8	11835.4	1227.3	11846.9				

ET	23.314	9.1	7.1				9220	11090	9220	11953.4
X1	23.314	93	9787.2	10063.4	510	490	504.26			
GR	1232.7	7788.5	1222.4	7806.5	1221.4	7935.2	1222.3	7947.3	1216.5	7974.1
GR	1216.4	8110.6	1218.6	8144.7	1219.5	8150.5	1221.2	8191.9	1221.1	8344.5
GR	1220.6	8366.0	1217.7	8384.7	1217.7	8448.3	1218.5	8483.7	1218.8	8616.8
GR	1218.3	8656.2	1216.6	8663.5	1216.9	8751.3	1221.5	8767.8	1221.8	8807.4
GR	1220.7	8859.8	1219.6	8878.7	1219.6	8924.5	1220.9	9025.9	1220.4	9166.6
GR	1219.9	9199.5	1217.8	9218.7	1217.2	9270.4	1217.7	9272.6	1217.5	9300.1
GR	1218.8	9318.2	1221.0	9336.0	1221.0	9423.1	1220.4	9461.6	1221.2	9474.5
GR	1220.2	9579.4	1221.7	9628.4	1222.4	9679.7	1220.6	9739.1	1221.1	9744.8
GR	1220.6	9750.2	1221.7	9775.3	1221.4	9787.2	1217.9	9809.6	1219.0	9833.6
GR	1218.3	9867.1	1219.6	9901.7	1220.0	9936.2	1218.6	9974.6	1216.9	9985.4
GR	1216.1	10040.0	1222.7	10063.4	1222.2	10132.4	1225.7	10154.9	1222.0	10192.7
GR	1223.2	10220.2	1220.5	10244.0	1221.4	10346.6	1221.1	10449.3	1220.2	10496.6
GR	1220.6	10551.9	1220.1	10600.5	1219.2	10616.0	1220.7	10654.5	1221.0	10705.8
GR	1220.3	10757.1	1220.4	10798.7	1219.4	10808.1	1218.8	10881.2	1217.8	10911.0
GR	1216.7	11063.1	1218.5	11091.1	1221.8	11107.3	1222.4	11218.9	1221.9	11314.8
GR	1222.8	11337.6	1222.9	11415.6	1222.3	11430.4	1223.7	11448.7	1224.2	11476.0
GR	1222.3	11492.7	1225.3	11508.2	1223.4	11627.6	1224.1	11745.9	1223.2	11766.1

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GR	1224.2	11787.9	1224.1	11834.0	1225.6	11876.0	1227.3	11895.4	1229.4	11905.2
GR	1230.6	11928.4	1231.5	11932.8	1233.7	11953.4				

ET	23.409	9.1	7.1				9550	10970	9550	12265.5
X1	23.409	95	9675.2	10060.2	515	485	500.34			
GR	1256.3	7735.9	1256.2	7750.9	1230.4	7791.4	1231	7799.5	1230.7	7813.6
GR	1228.9	7829.9	1228.9	7848	1227.5	7854.5	1225.7	7858.5	1225.8	7874.5
GR	1224.7	7925.3	1224.9	8004.6	1224.3	8121.4	1222.9	8128.6	1222.9	8137.8
GR	1224.3	8143.3	1224.4	8147	1218.3	8173.3	1218.8	8283.2	1218.5	8305.9
GR	1221.1	8338.7	1221.5	8349.7	1221.2	8385.4	1222	8419.6	1221.6	8441.4
GR	1221.8	8470.7	1220	8485.1	1220.9	8589.8	1219.3	8692.6	1218.8	8702.3
GR	1218.6	8794.3	1218.2	8808.7	1223	8830.7	1223.6	8845.4	1222.8	8907
GR	1223	8947.6	1222	8977.9	1222	9031.1	1222.9	9049.9	1222.2	9101
GR	1221	9152.2	1221.5	9197.7	1222.5	9217	1223.4	9354.4	1223.7	9356.6
GR	1223	9522.1	1223.7	9561.1	1223.6	9675.2	1220.5	9686.2	1219.3	9713.7
GR	1221.7	9811.5	1222.1	9867.8	1220.9	9918.9	1218.8	9939.5	1222.2	10021.2
GR	1222	10030.4	1225.4	10060.2	1225.1	10154.4	1225.6	10174.6	1221.8	10379
GR	1221.9	10407.3	1222.8	10449.5	1222.4	10582.3	1221.4	10615.1	1222.4	10660.2
GR	1222	10702.4	1221.1	10736.8	1221.1	10769	1217.6	10787.7	1216.7	10796
GR	1218.5	10890.2	1217.9	10919.7	1224	10945.4	1224.1	11043.5	1223.4	11145.8
GR	1222.1	11192.4	1223.1	11350.2	1222.8	11395.3	1220	11409.7	1220.7	11440.1
GR	1218.9	11453.4	1219.4	11481	1223.9	11496.7	1225.8	11510.2	1225.6	11629.8
GR	1226.2	11671.9	1225.8	11708.1	1226	11811.1	1226.4	11983.3	1225.7	11990.8
GR	1227	11995.5	1226.6	12052.6	1229	12177	1234.4	12219.3	1238	12265.5

NC	.055	.045	.035				9680	10880	9680	12068.7
ET	23.504	9.1	7.1							
X1	23.504	92	9706.7	10220.0	505	490	501.26			
GR	1243.0	7885.3	1233.5	7905.3	1233.0	7913.7	1234.9	7921.2	1234.8	7958.2
GR	1230.7	8017.3	1230.5	8105.5	1227.2	8147.9	1227.8	8173.2	1228.9	8176.3
GR	1229.1	8192.1	1226.2	8214.5	1226.4	8225.5	1234.0	8244.4	1234.0	8259.5
GR	1217.6	8304.9	1218.9	8344.9	1227.2	8363.5	1221.0	8376.0	1219.8	8435.3
GR	1210.7	8450.1	1211.8	8459.5	1221.0	8472.3	1220.8	8481.4	1220.5	8506.5
GR	1224.8	8519.1	1223.1	8523.7	1222.8	8533.3	1224.5	8547.0	1205.4	8568.9
GR	1204.1	8591.0	1205.4	8596.8	1195.0	8611.0	1191.8	8617.5	1190.2	8656.9
GR	1189.1	8660.7	1189.7	8674.3	1198.3	8689.5	1201.0	8704.2	1203.4	8709.0
GR	1200.3	8726.4	1202.1	8734.0	1201.0	8756.2	1203.6	8764.0	1202.6	8806.8
GR	1204.7	8811.9	1205.5	8830.8	1192.3	8841.3	1191.8	8858.8	1197.4	8867.9
GR	1195.4	8875.3	1204.4	8892.8	1223.9	8945.6	1225.1	9023.4	1224.1	9044.5

Effective Model Output  
AGUAFRIA.OUT

GR	1221.7	9051.0	1224.3	9060.1	1225.6	9227.4	1225.8	9482.4	1225.5	9530.7
GR	1227.5	9538.4	1224.1	9561.5	1223.9	9632.0	1225.9	9648.6	1226.2	9706.7
GR	1220.8	9721.7	1221.9	9813.3	1224.4	9849.7	1224.1	9992.3	1222.5	10045.3
GR	1224.4	10091.7	1225.6	10098.4	1226.7	10220.0	1223.5	10234.3	1224.5	10469.4
GR	1220.1	10487.3	1219.9	10508.9	1222.3	10535.7	1220.7	10604.3	1218.0	10650.0
GR	1219.6	10695.6	1222.7	10709.0	1222.9	10923.0	1225.4	11063.3	1225.1	11318.3
GR	1223.9	11557.7	1220.7	11567.9	1221.2	11625.5	1227.0	11649.3	1227.9	11919.1
GR	1229.6	12048.1	1232.0	12068.7						
ET	23.598	9.1	7.1				9680	10770	9680	11700.5
X1	23.598	94	9700.2	10260.3	480	490	497.60			
GR	1243.5	8020.4	1234.7	8035.2	1235.1	8047.0	1226.5	8062.4	1226.7	8076.5
GR	1225.6	8097.2	1226.3	8099.3	1225.3	8107.5	1226.6	8134.5	1238.9	8173.5
GR	1238.6	8195.6	1236.0	8207.5	1235.5	8240.7	1235.5	8418.8	1238.0	8431.0
GR	1238.5	8449.3	1197.6	8511.1	1196.4	8545.0	1189.8	8565.2	1187.6	8769.8

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GR	1188.4	8798.9	1185.2	8940.0	1184.6	9041.7	1183.9	9058.5	1178.4	9085.4
GR	1177.0	9108.1	1179.6	9146.3	1181.0	9156.6	1181.3	9168.6	1183.0	9185.2
GR	1184.4	9189.2	1185.8	9199.4	1190.3	9217.8	1190.4	9220.2	1186.2	9236.3
GR	1187.7	9298.3	1188.0	9461.3	1188.1	9499.3	1195.4	9509.6	1195.9	9511.4
GR	1199.7	9516.2	1200.8	9518.7	1211.8	9534.9	1224.5	9558.2	1224.4	9593.6
GR	1225.3	9615.1	1226.7	9619.8	1226.3	9625.3	1226.8	9626.4	1224.5	9631.3
GR	1223.8	9638.4	1224.8	9660.3	1227.2	9668.1	1230.9	9676.9	1227.9	9685.2
GR	1228.0	9700.2	1224.7	9715.3	1225.2	9738.5	1222.7	9765.5	1222.1	9806.4
GR	1223.6	9897.6	1225.3	9952.6	1226.0	10018.1	1225.2	10102.8	1223.9	10141.1
GR	1221.4	10165.0	1223.3	10237.0	1226.4	10260.3	1225.0	10362.6	1223.3	10385.1
GR	1221.5	10460.9	1220.2	10484.6	1224.1	10509.9	1224.9	10561.7	1223.5	10580.0
GR	1223.2	10667.2	1225.5	10681.8	1225.4	10742.0	1226.5	10766.6	1226.6	10891.9
GR	1224.8	10918.6	1226.7	10971.8	1227.1	11124.9	1227.8	11176.0	1227.2	11373.2
GR	1226.2	11431.2	1225.7	11523.7	1222.8	11533.1	1222.9	11579.0	1224.8	11586.6
GR	1226.7	11598.4	1229.5	11628.6	1241.3	11693.7	1241.0	11700.5		

ET	23.692	9.1	7.1				9650	10675	9650	11533.8
X1	23.692	92	9869.5	10339.2	475	475	494.02			
GR	1263	7983.5	1249.2	8010.6	1232	8040.7	1217	8064.8	1206.1	8092.9
GR	1206	8096.9	1201.9	8135.1	1201.4	8210.8	1202.5	8214.5	1212.3	8236.5
GR	1219.1	8249	1223.8	8259	1223.6	8273.3	1208.2	8305.9	1207.7	8359.5
GR	1199.7	8383.2	1198.6	8394.4	1197.8	8409	1198	8412.1	1195.3	8460.9
GR	1194.7	8478.5	1195	8488.3	1193.4	8524.5	1192.8	8550.6	1192.9	8601.8
GR	1192.3	8644.7	1191	8850.7	1190.7	8940.5	1191.1	8982.8	1190.8	9001.7
GR	1191.4	9051	1191	9241	1190.3	9294.9	1190.5	9312.2	1188.8	9461.1
GR	1187.9	9512.2	1187.1	9533.1	1186.7	9600.8	1194	9614.7	1195.8	9616.7
GR	1229.7	9648.2	1229.5	9660.7	1229	9668.2	1229.3	9671.3	1226.8	9681.7
GR	1226.3	9720.8	1229.5	9733.8	1229.9	9767.4	1229.5	9787.1	1229.5	9869.5
GR	1223.9	9897.3	1223.8	9971.6	1224.3	10044.9	1225.7	10077	1227	10124.7
GR	1227	10187.8	1227.5	10194.4	1225.6	10203.5	1226.4	10319.8	1227.4	10339.2
GR	1226.9	10382.2	1226.4	10393.6	1227.6	10444.7	1228.2	10514.5	1228.2	10549.6
GR	1226.1	10559.9	1226	10583	1227.6	10607.5	1227.9	10621.6	1224.3	10637.9
GR	1224.5	10675.4	1228.1	10690.3	1228.8	10839.5	1228.3	10890.4	1228.9	10941.6
GR	1228.3	10992.6	1229	11043.6	1228.1	11095.7	1229.6	11162.5	1229.7	11186.1
GR	1228.9	11247.8	1228.8	11285.6	1227.1	11315.5	1225.5	11324.7	1225.3	11356.5
GR	1226.3	11384.6	1227.1	11396.5	1227.2	11429.5	1225.4	11433.6	1240.7	11468.5
GR	1238	11521.1	1237.8	11533.8						

NC	.055	.055	.035							
QT	2	31000	31000							
ET	23.790	9.1	7.1				9630	10635	9630	11371.5
X1	23.790	94	9641.3	10143.6	500	500	519.17			
GR	1269.4	7697.5	1265.5	7751.3	1265.8	7792.2	1263.7	7829.4	1258.8	7845.4
GR	1257.2	7852.7	1250.2	7900.0	1247.8	7957.1	1248.9	7968.3	1248.3	7971.6
GR	1246.6	7975.7	1242.2	8006.5	1238.2	8026.0	1236.7	8038.2	1232.3	8058.9
GR	1227.8	8118.0	1230.2	8203.5	1223.9	8229.5	1222.6	8263.9	1218.5	8278.3
GR	1214.5	8316.5	1207.4	8347.2	1205.8	8360.1	1205.8	8366.1	1211.1	8377.8
GR	1206.4	8406.3	1196.1	8422.8	1196.0	8453.9	1181.8	8483.6	1179.4	8578.5
GR	1181.9	8591.2	1197.2	8644.4	1199.3	8686.6	1199.7	8771.5	1198.4	8830.3
GR	1196.6	8836.5	1196.3	8842.6	1200.6	8851.9	1202.5	8862.6	1192.5	8889.7
GR	1192.2	8899.3	1194.1	8981.5	1213.5	9007.1	1221.3	9016.3	1220.8	9056.1
GR	1219.9	9076.0	1224.9	9094.7	1225.2	9169.5	1227.1	9208.5	1228.0	9271.2
GR	1230.4	9288.9	1233.0	9355.1	1232.1	9364.3	1232.5	9376.9	1235.1	9394.4
GR	1230.6	9451.0	1226.8	9485.2	1228.9	9609.2	1231.3	9624.8	1231.1	9641.3

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GR	1229.3	9650.9	1229.9	9818.5	1230.9	9833.0	1230.7	9842.4	1228.2	9863.6
GR	1225.8	9990.2	1224.2	10016.7	1225.2	10127.2	1229.8	10143.6	1230.9	10192.5
GR	1229.6	10222.2	1227.9	10283.8	1231.1	10300.2	1231.2	10421.1	1227.8	10440.7
GR	1226.7	10502.7	1229.9	10525.0	1229.9	10631.7	1227.8	10661.4	1228.8	10705.8
GR	1226.6	10719.0	1226.5	10762.1	1228.0	10804.3	1227.9	10823.4	1230.0	10860.3
GR	1230.9	10909.1	1229.2	11054.5	1227.5	11061.2	1227.1	11136.2	1229.7	11153.9
GR	1230.4	11215.4	1228.3	11295.7	1244.0	11336.7	1244.4	11371.5		
ET	23.881	9.1	7.1				9630	10665	9630	11328.4
X1	23.881	91	9682.7	10181.6	460	470	477.96			
GR	1247.1	7671.5	1242.8	7678.8	1240.0	7685.5	1236.6	7722.1	1231.1	7750.1
GR	1229.7	7785.5	1229.4	7834.7	1234.5	7850.8	1230.1	7864.7	1229.9	8052.6
GR	1230.1	8186.6	1229.7	8247.3	1228.8	8255.9	1229.7	8270.7	1229.7	8304.0
GR	1221.8	8322.6	1221.8	8330.2	1225.1	8362.3	1225.0	8400.1	1229.6	8413.1
GR	1230.4	8454.2	1230.0	8463.7	1227.4	8475.0	1215.6	8504.1	1213.9	8531.8
GR	1213.4	8562.6	1211.1	8617.0	1211.2	8665.9	1207.2	8716.9	1224.1	8738.8
GR	1222.5	8747.0	1221.8	8796.0	1225.5	8921.2	1226.7	9074.5	1227.9	9175.9
GR	1225.8	9276.9	1228.4	9301.3	1231.3	9435.3	1230.9	9585.4	1230.9	9612.3

Effective Model Output  
AGUAFRIA.OUT

GR	1232.7	9625.6	1232.7	9644.5	1230.5	9650.0	1230.7	9673.5	1233.3	9682.7
GR	1229.5	9694.0	1228.8	9702.0	1230.3	9720.5	1229.9	9760.4	1228.5	9766.2
GR	1230.0	9787.1	1229.8	9924.8	1227.1	9943.8	1226.0	10026.6	1226.7	10042.9
GR	1225.1	10107.0	1225.2	10142.6	1232.8	10181.6	1232.5	10227.6	1233.1	10249.6
GR	1232.2	10289.8	1233.2	10314.5	1233.1	10402.9	1231.8	10482.3	1233.5	10500.5
GR	1232.9	10520.0	1228.2	10531.0	1227.6	10539.4	1229.6	10555.6	1230.7	10709.4
GR	1230.4	10745.1	1230.0	10765.5	1230.6	10788.0	1230.0	10811.6	1231.3	10858.6
GR	1230.2	10954.1	1229.0	10983.3	1230.3	11021.0	1230.2	11044.6	1231.9	11055.1
GR	1231.4	11098.5	1232.5	11108.6	1231.7	11118.5	1231.8	11201.1	1231.1	11212.1
GR	1233.5	11230.7	1233.2	11253.5	1235.7	11265.0	1236.5	11282.0	1246.4	11317.7
GR	1247.1	11328.4								

NC	.055	.055	.050							
ET	23.974	9.1	7.1				9716	10825	9716	11204.9
X1	23.974	94	9716.2	10115.2	460	500	492.24			
GR	1269.8	7466.3	1269.5	7473.5	1273.0	7482.1	1266.9	7509.6	1265.6	7558.6
GR	1264.4	7562.0	1264.2	7576.0	1262.7	7576.8	1263.1	7578.2	1257.8	7586.6
GR	1254.6	7593.3	1249.1	7602.5	1231.9	7627.3	1231.1	7774.9	1230.1	7821.5
GR	1231.4	7829.1	1230.4	7941.6	1231.4	8024.4	1231.6	8198.2	1235.4	8254.0
GR	1235.5	8318.5	1232.8	8351.1	1234.8	8370.8	1235.9	8403.1	1234.6	8420.3
GR	1229.9	8445.4	1228.7	8464.9	1229.5	8485.0	1234.3	8506.0	1234.8	8543.1
GR	1234.1	8546.0	1234.5	8550.1	1229.2	8565.6	1230.7	8648.0	1230.9	8814.3
GR	1232.0	8898.5	1229.8	9001.5	1229.1	9008.3	1227.9	9102.9	1226.9	9118.2
GR	1222.9	9132.2	1223.3	9177.1	1222.3	9200.2	1226.6	9218.9	1226.0	9358.3
GR	1225.0	9399.9	1226.0	9433.7	1225.4	9465.1	1230.3	9506.7	1230.8	9563.1
GR	1236.6	9583.0	1235.2	9586.4	1228.1	9595.9	1231.8	9621.4	1234.4	9693.0
GR	1238.6	9716.2	1229.1	9729.9	1227.8	9772.7	1227.5	9833.4	1231.8	9891.3
GR	1230.5	9916.5	1230.4	9964.1	1232.0	9977.2	1236.5	9992.0	1232.6	10005.8
GR	1231.9	10010.7	1232.5	10019.0	1234.9	10030.1	1231.9	10036.8	1230.0	10073.5
GR	1230.7	10110.9	1233.1	10115.2	1234.8	10128.6	1232.8	10151.6	1232.2	10212.3
GR	1229.6	10239.8	1230.2	10354.5	1229.1	10371.5	1232.4	10388.9	1232.5	10439.1
GR	1233.5	10490.5	1231.8	10554.8	1233.5	10644.6	1232.4	10714.7	1232.8	10747.3
GR	1231.6	10828.7	1233.7	10842.9	1231.4	10994.6	1230.5	11034.8	1235.7	11058.4
GR	1236.3	11109.1	1237.7	11139.4	1254.2	11185.4	1253.5	11204.9		

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ET	24.067	9.1	7.1				9380	11020	9230	11167.5
X1	24.067	91	9569.2	10188.6	465	505	493.30			
GR	1258	7357.6	1258	7360.4	1262.3	7373.4	1235.2	7415.6	1233	7419.6
GR	1232.8	7441.5	1234.5	7451.6	1232.4	7477.2	1232.1	7504	1233.6	7523.2
GR	1234.5	7659.1	1233.9	7672	1232.1	7687.6	1232.2	7761.5	1230.5	7779.1
GR	1232.6	7794.3	1231.3	7829.8	1232.9	7859	1233.5	7863.6	1231.9	8037.3
GR	1232.2	8130.7	1231.1	8184	1232.5	8227	1231.9	8278.2	1234.5	8330.2
GR	1235.6	8464.1	1235.2	8476	1235.4	8536.7	1234.7	8639.9	1234.9	8682.4
GR	1233.3	8691.6	1233.7	8696.1	1233.4	8802.1	1231.8	8809.5	1230.5	8900.7
GR	1230.8	8925	1232.2	8964.4	1232.8	9001.3	1232.4	9052.9	1233	9104.5
GR	1231.3	9151.4	1232.1	9237.2	1230.6	9311	1231.2	9379.2	1232.6	9414.3
GR	1233	9465.9	1232.8	9517.5	1232.1	9554.3	1232.9	9569.2	1231.9	9599.3
GR	1232	9669.1	1229.9	9677.7	1229.3	9724	1230.6	9795.8	1230	9860
GR	1231.3	9878.9	1234	9907.3	1234.2	9937	1235.1	9962.5	1233.6	9977.6
GR	1232.1	10014.1	1235.6	10026.7	1233.4	10087.2	1233.2	10115.1	1234.4	10145.2
GR	1235.2	10188.6	1235.3	10314.2	1235.7	10343.5	1234.8	10387.8	1235.2	10419.7
GR	1234.3	10464.1	1234.9	10500.7	1233.9	10577.3	1234.4	10600.6	1230.7	10623.3
GR	1230.7	10641.6	1232.6	10700.9	1231.5	10745.2	1233.9	10761.4	1234.4	10788.5
GR	1233.1	10834.7	1235.4	10920.5	1233.8	10936.7	1232.5	10967.9	1233.8	11004.5
GR	1231.8	11021.5	1233.6	11052.2	1241.1	11075.2	1242	11085.3	1258.1	11157.3
GR	1258.1	11167.5								

NC	.045	.045	.035				9310	11185	8750	11568.4
ET	24.165	9.1	7.1				513.78			
X1	24.165	91	9558.3	10173.1	495	520	1249.0	7345.2	1237.9	7368.9
GR	1251.4	7314.9	1252.8	7322.0	1252.2	7339.6	1237.6	7424.4	1237.2	7429.1
GR	1237.2	7372.2	1236.4	7399.7	1239.5	7416.4	1234.4	7762.9	1233.6	7890.1
GR	1237.0	7521.7	1236.1	7573.6	1235.7	7729.0	1233.9	8042.8	1235.2	8092.0
GR	1233.0	7930.3	1234.5	7959.7	1234.8	7989.6	1233.9	8290.6	1234.3	8350.9
GR	1234.2	8108.1	1235.3	8195.4	1235.1	8247.2	1233.7	8446.3	1234.1	8461.2
GR	1232.9	8396.7	1234.0	8417.8	1233.0	8434.2	1235.3	8830.5	1234.9	8840.0
GR	1235.8	8558.1	1236.7	8713.6	1236.4	8781.6	1236.2	8994.5	1233.7	9006.0
GR	1237.1	8850.2	1236.7	8920.8	1237.1	8972.7	1236.2	9143.9	1236.7	9157.0
GR	1233.0	9021.2	1234.3	9119.3	1236.4	9131.6	1237.1	9143.9	1233.2	9335.5
GR	1235.0	9174.9	1233.2	9187.2	1233.1	9211.2	1234.3	9226.1	1231.4	9588.2
GR	1234.0	9392.0	1236.3	9421.0	1236.1	9558.3	1232.0	9573.1	1231.4	9884.4
GR	1232.7	9620.6	1234.1	9750.0	1234.0	9865.1	1233.6	9875.5	1233.8	9884.4
GR	1232.3	10009.8	1232.8	10024.4	1233.5	10059.6	1233.2	10098.5	1234.1	10173.1
GR	1234.0	10330.1	1233.1	10371.8	1233.3	10411.0	1231.9	10468.5	1235.1	10510.4
GR	1236.2	10549.1	1236.8	10727.7	1235.3	10749.0	1236.1	10769.8	1234.1	10784.5
GR	1234.4	10843.0	1235.7	10872.0	1236.4	10967.1	1235.4	10983.1	1236.2	10957.7
GR	1237.1	11103.2	1236.7	11159.2	1235.9	11175.3	1241.8	11199.1	1243.4	11221.8
GR	1244.9	11252.8	1246.8	11315.1	1248.0	11420.9	1247.0	11430.8	1245.7	11464.9
GR	1246.1	11568.4								

ET	24.212	9.1	7.1				9300	11250	8520	11250
X1	24.212	91	9668.7	10099.7	240	250	248.42			
GR	1243.2	7362.8	1240.7	7366.4	1239.7	7392.7	1238.2	7412.5	1237.9	7449.8
GR	1238.6	7553.6	1237.3	7657.4	1236.8	7761.3	1237.6	7813.2	1236.9	7840.8
GR	1235.1	7858.6	1234.7	7917.0	1234.7	8019.2	1234.0	8054.5	1235.4	8090.2
GR	1235.4	8103.3	1236.3	8117.6	1236.4	8153.1	1236.1	8187.7	1236.2	8228.5
GR	1234.4	8280.2	1235.1	8332.3	1234.9	8373.3	1233.6	8416.6	1235.4	8432.8
GR	1236.6	8488.1	1236.8	8533.3	1234.7	8548.5	1235.0	8567.5	1236.4	8591.9

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Effective Model Output  
AGUAFRIA.OUT

GR	1237.2	8643.8	1237.5	8797.2	1237.7	8962.3	1237.8	8997.2	1237.2	9006.5
GR	1236.2	9042.0	1235.6	9050.2	1234.5	9058.3	1234.2	9090.4	1235.0	9235.4
GR	1234.1	9382.3	1234.9	9422.6	1233.9	9488.9	1237.0	9515.3	1237.8	9578.4
GR	1236.6	9625.0	1237.4	9644.2	1237.4	9668.7	1234.8	9678.4	1232.8	9764.6
GR	1234.0	9786.0	1235.4	9889.9	1234.3	9983.5	1231.8	9996.8	1232.6	10011.5
GR	1231.3	10063.7	1235.7	10076.8	1236.2	10099.7	1235.1	10195.0	1233.8	10219.6
GR	1233.8	10262.0	1235.1	10355.3	1235.3	10416.5	1234.6	10460.9	1234.9	10564.8
GR	1233.2	10638.2	1234.0	10668.6	1234.1	10720.8	1233.9	10734.6	1237.7	10823.0
GR	1237.5	10830.9	1234.8	10875.1	1236.4	10980.1	1237.0	11100.4	1236.9	11187.8
GR	1237.5	11214.4	1237.4	11287.5	1236.9	11311.8	1237.1	11334.2	1236.3	11350.7
GR	1236.3	11369.5	1238.8	11376.7	1240.4	11382.6	1242.5	11395.4	1242.6	11404.6
GR	1243.8	11422.9	1244.2	11440.9	1243.9	11459.4	1243.1	11464.2	1243.9	11473.8
GR	1244.4	11494.3								

ET	24.260	9.1	7.1				9280	11261	8290	11487.9
XI	24.260	92	9616.4	10224.2	245	255	254.64			
GR	1262.1	7306.7	1252.3	7325.9	1245.1	7343.4	1241.6	7354.1	1239.4	7389.7
GR	1238.7	7396.3	1239.2	7475.7	1239.5	7495.6	1238.6	7682.8	1238.0	7848.4
GR	1237.1	7942.6	1236.0	7969.1	1235.7	8080.9	1235.4	8125.7	1235.7	8170.2
GR	1237.0	8216.7	1237.9	8234.1	1238.4	8256.8	1236.4	8321.7	1234.9	8395.5
GR	1234.8	8419.9	1237.1	8497.4	1236.8	8575.6	1237.8	8629.0	1236.7	8680.4
GR	1238.5	8784.4	1238.6	8836.4	1238.2	8877.6	1236.2	8896.3	1238.3	8949.3
GR	1238.2	9041.9	1235.5	9053.3	1234.0	9106.4	1234.5	9148.4	1234.4	9175.3
GR	1235.7	9191.7	1235.6	9304.4	1235.9	9321.9	1234.6	9336.5	1234.4	9354.6
GR	1234.9	9356.7	1235.3	9448.2	1235.8	9460.4	1234.9	9568.6	1234.6	9574.1
GR	1238.4	9595.7	1238.2	9603.2	1238.5	9616.4	1238.0	9658.6	1235.4	9667.2
GR	1236.4	9720.9	1236.5	9772.4	1236.1	9811.6	1233.8	9819.9	1233.7	9831.8
GR	1234.6	9848.3	1234.6	9881.5	1236.1	9928.4	1236.0	9979.1	1234.1	10023.3
GR	1231.7	10037.0	1232.1	10038.9	1232.4	10106.1	1235.3	10125.4	1236.3	10162.3
GR	1236.3	10197.0	1237.0	10224.2	1235.3	10292.4	1234.5	10342.6	1235.2	10396.4
GR	1234.7	10532.3	1234.1	10550.8	1235.5	10629.5	1235.2	10773.6	1234.2	10834.8
GR	1234.5	10862.3	1235.5	10879.9	1235.5	10933.6	1236.5	11072.4	1236.6	11109.4
GR	1237.0	11124.4	1237.2	11236.6	1237.7	11251.0	1242.7	11283.1	1244.5	11319.5
GR	1247.1	11335.2	1248.3	11357.8	1249.1	11385.5	1249.3	11414.2	1250.0	11436.4
GR	1249.9	11466.8	1250.4	11487.9						

ET	24.353	9.1	7.1				9244	11272	7860	11307.9
XI	24.353	93	9244.8	10209.4	475	505	493.87			
GR	1262.7	7378.6	1247.9	7415.9	1243.1	7427.3	1242.2	7445.6	1241.4	7478.3
GR	1240.6	7486.5	1240.3	7514.7	1240.9	7523.9	1240.5	7559.9	1239.6	7597.3
GR	1239.5	7614.5	1240.9	7625.3	1240.5	7702.2	1239.4	7806.7	1239.6	7858.9
GR	1239.5	7885.5	1238.0	7909.3	1237.7	7966.3	1238.6	8015.6	1238.4	8067.9
GR	1237.4	8116.0	1238.0	8276.8	1237.6	8329.0	1237.9	8381.2	1237.5	8440.1
GR	1236.9	8447.8	1237.9	8487.2	1238.4	8496.1	1239.0	8603.6	1237.9	8695.6
GR	1239.1	8714.3	1239.2	8764.1	1239.9	8844.3	1239.8	8884.4	1240.0	8903.6
GR	1239.1	9012.5	1239.6	9020.7	1239.3	9032.1	1239.7	9060.3	1239.7	9164.7
GR	1238.8	9187.2	1239.4	9201.4	1239.4	9217.0	1238.3	9244.8	1237.9	9287.7
GR	1235.3	9296.5	1235.6	9427.1	1236.6	9447.5	1237.1	9492.4	1237.0	9530.4
GR	1236.2	9566.3	1236.4	9613.0	1237.7	9687.1	1236.7	9726.8	1236.7	9739.3
GR	1237.1	9746.0	1237.6	9896.0	1236.8	9940.1	1233.6	9953.7	1233.9	10016.3
GR	1233.8	10027.2	1235.9	10048.4	1236.2	10069.9	1235.4	10123.5	1236.7	10131.6
GR	1237.6	10148.2	1238.1	10209.4	1236.4	10366.1	1236.8	10417.1	1235.4	10442.2
GR	1235.0	10481.1	1236.4	10522.8	1236.7	10551.4	1236.0	10560.7	1236.1	10572.7
GR	1237.8	10584.2	1238.5	10596.8	1236.5	10613.4	1236.9	10658.6	1238.3	10668.5

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GR	1237.9	10677.3	1238.4	10731.7	1237.6	10769.7	1238.1	10809.8	1237.4	10862.1
GR	1237.3	10940.9	1235.2	10998.1	1235.3	11045.1	1235.8	11085.2	1235.7	11097.4
GR	1236.8	11258.3	1236.8	11265.7	1256.6	11307.9				

ET	24.449		7.1				9320	11319		
XI	24.449	92	9496.2	10169.3	460	525	502.64			
GR	1263.1	7480.4	1261.5	7489.1	1250.1	7529.5	1249.2	7543.3	1248.2	7549.9
GR	1245.9	7555.7	1247.2	7582.8	1248.9	7594.4	1246.2	7645.6	1245.2	7718.8
GR	1247.2	7752.2	1248.1	7786.1	1247.8	7811.3	1245.8	7857.9	1245.7	7875.1
GR	1245.3	7884.4	1244.3	7893.4	1244.1	7898.5	1240.3	7915.9	1239.3	8016.4
GR	1239.1	8069.2	1239.5	8122.0	1240.1	8156.4	1239.5	8235.2	1239.5	8280.5
GR	1238.4	8322.6	1239.6	8343.5	1239.5	8355.6	1240.2	8439.1	1240.2	8510.9
GR	1239.5	8550.3	1239.9	8597.6	1239.9	8650.4	1239.3	8695.0	1240.0	8709.4
GR	1240.9	8750.2	1240.5	8756.1	1242.0	8876.0	1242.1	9030.7	1241.9	9090.1
GR	1240.3	9161.6	1241.1	9181.1	1241.1	9192.2	1242.2	9231.6	1241.9	9337.3
GR	1240.9	9390.1	1240.2	9496.2	1239.0	9538.6	1237.6	9557.0	1236.8	9573.9
GR	1236.9	9602.7	1238.3	9656.4	1238.3	9678.3	1239.9	9694.6	1238.4	9856.2
GR	1237.8	9864.3	1238.2	9890.0	1236.9	9916.2	1235.0	9982.5	1236.4	10034.9
GR	1238.0	10047.2	1238.4	10084.9	1237.6	10101.9	1236.8	10111.0	1237.1	10131.9
GR	1242.7	10169.3	1243.4	10182.6	1243.3	10247.2	1242.7	10272.2	1239.6	10285.3
GR	1240.2	10341.1	1240.2	10392.7	1239.0	10423.1	1237.8	10552.5	1238.2	10627.8
GR	1238.7	10658.1	1238.7	10763.8	1240.1	10846.9	1239.6	10873.0	1240.3	10904.3
GR	1240.2	10920.1	1240.7	10924.8	1239.7	10968.5	1239.8	10975.1	1237.8	11100.8
GR	1236.8	11143.3	1236.9	11292.1	1236.6	11313.1	1256.8	11340.0	1262.3	11347.9
GR	1266.4	11355.0	1266.2	11372.5						

ET	24.543		7.1				9340	11419		
XI	24.543	91	9646.7	10243.6	495	495	500.50			
GR	1263.5	7211.0	1252.7	7236.5	1251.5	7278.4	1251.6	7286.8	1254.4	7313.5
GR	1253.6	7369.3	1252.4	7377.4	1251.9	7386.5	1249.9	7404.2	1248.7	7467.2
GR	1249.7	7472.7	1252.9	7484.9	1255.5	7497.4	1254.7	7502.0	1254.6	7528.3
GR	1256.3	7533.7	1254.5	7542.2	1252.6	7637.5	1252.0	7691.0	1250.6	7746.3
GR	1249.7	7812.2	1247.4	7826.0	1243.4	7844.8	1242.1	8008.2	1241.3	8113.9
GR	1241.9	8182.1	1241.8	8219.6	1242.3	8252.1	1239.4	8262.4	1242.2	8277.0
GR	1241.9	8339.5	1242.2	8490.8	1242.5	8589.6	1241.9	8649.4	1243.0	8695.3
GR	1243.0	8853.8	1244.5	9012.4	1243.7	9118.1	1244.1	9223.8	1243.7	9281.4

Effective Model Output  
AGUAFRIA.OUT

GR	1242.1	9297.8	1242.1	9329.5	1243.0	9358.2	1240.9	9382.8	1240.8	9435.3
GR	1236.3	9582.1	1235.6	9594.4	1243.3	9622.9	1243.5	9646.7	1241.9	9709.0
GR	1242.3	9742.6	1244.0	9751.8	1245.4	9766.1	1244.5	9793.5	1243.5	9796.0
GR	1242.9	9806.8	1240.2	9821.0	1239.6	9874.8	1240.3	9923.3	1239.0	9952.8
GR	1240.5	9966.8	1240.8	10077.7	1237.6	10212.4	1237.8	10229.1	1243.2	10243.6
GR	1243.4	10280.9	1242.6	10333.8	1242.5	10386.8	1243.4	10439.4	1241.6	10550.6
GR	1239.4	10565.8	1239.2	10598.0	1238.6	10619.5	1240.4	10703.7	1240.8	10780.2
GR	1239.9	10859.1	1240.9	10869.5	1240.8	10915.2	1241.7	11080.7	1239.4	11105.3
GR	1241.4	11119.9	1239.4	11166.5	1239.8	11241.2	1239.5	11244.2	1238.3	11247.1
GR	1238.7	11285.1	1238.3	11331.3	1238.6	11360.1	1236.8	11366.3	1237.7	11413.5
GR	1259.5	11435.6								

NC	.050	.050	.035				9420	11595		
ET	24.631		7.1							

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X1	24.631	93	9445.2	10225.0	450	460	462.47			
GR	1256.3	7653.4	1246.8	7681.4	1246.8	7694.7	1245.6	7709.5	1245.4	7735.3
GR	1246.1	7759.3	1244.9	7923.7	1244.7	7971.1	1243.6	8011.2	1244.4	8020.2
GR	1244.1	8076.9	1244.6	8116.0	1244.5	8129.9	1242.9	8160.0	1244.6	8182.8
GR	1243.3	8288.7	1244.0	8312.3	1244.1	8390.9	1243.8	8432.5	1244.3	8447.5
GR	1243.9	8469.4	1244.5	8553.4	1244.1	8607.0	1243.6	8616.7	1244.3	8659.2
GR	1244.7	8818.1	1245.1	8871.0	1245.0	8993.0	1246.5	9005.4	1246.5	9019.3
GR	1246.0	9032.6	1245.5	9135.7	1246.4	9188.6	1245.9	9295.9	1245.2	9345.9
GR	1243.9	9372.4	1245.1	9445.2	1244.2	9458.1	1243.4	9506.2	1242.9	9515.8
GR	1243.2	9612.1	1241.7	9634.6	1244.1	9652.8	1243.9	9703.9	1244.1	9726.3
GR	1243.6	9823.8	1243.0	9876.8	1242.2	9922.7	1242.7	9982.7	1242.4	10013.0
GR	1240.8	10024.3	1241.4	10058.2	1241.4	10088.5	1240.6	10141.5	1240.1	10194.4
GR	1239.8	10206.2	1240.0	10210.4	1241.4	10215.2	1245.1	10225.0	1244.0	10269.8
GR	1244.1	10303.0	1245.5	10353.2	1245.2	10406.2	1245.3	10433.3	1244.3	10468.3
GR	1244.5	10511.2	1243.9	10551.2	1244.1	10565.0	1243.8	10606.3	1241.7	10613.0
GR	1242.9	10674.7	1242.7	10747.6	1241.4	10894.3	1243.0	10903.4	1243.7	10988.5
GR	1242.6	11030.5	1243.7	11051.6	1241.9	11200.2	1241.4	11221.1	1241.3	11246.9
GR	1239.9	11288.8	1240.7	11359.0	1238.8	11501.9	1239.7	11528.6	1241.9	11571.4
GR	1242.2	11605.1	1242.6	11621.6	1242.6	11672.4	1243.3	11705.0	1238.5	11728.8
GR	1238.2	11739.4	1238.5	11764.0	1248.4	11780.7				

ET	24.721		7.1				9515	11765		
X1	24.721	91	9515.7	10326.1	455	465	474.09			
GR	1261.8	7508.1	1254.9	7540.7	1245.0	7581.6	1243.6	7628.6	1246.0	7647.7
GR	1246.3	7740.8	1245.4	7819.2	1245.8	7923.7	1246.6	7966.6	1246.2	7986.7
GR	1247.0	8029.8	1246.2	8082.9	1246.1	8242.0	1246.2	8390.6	1245.2	8424.5
GR	1246.4	8454.3	1246.3	8510.3	1245.2	8528.8	1245.9	8613.5	1245.6	8636.7
GR	1246.5	8649.8	1246.3	8836.9	1246.6	8887.6	1248.0	8899.0	1247.1	8914.5
GR	1247.5	9091.1	1246.7	9178.7	1248.0	9226.8	1247.4	9323.6	1246.8	9346.6
GR	1245.4	9366.7	1247.2	9383.3	1246.1	9400.5	1247.7	9413.1	1247.9	9426.6
GR	1246.8	9490.0	1247.7	9515.7	1246.8	9587.5	1244.3	9601.4	1244.9	9621.8
GR	1245.7	9727.9	1244.5	9858.3	1243.2	9890.5	1244.7	9940.2	1244.6	9975.5
GR	1241.7	10012.2	1241.1	10093.8	1245.3	10118.8	1246.3	10152.5	1246.1	10205.6
GR	1244.7	10227.0	1245.9	10314.0	1247.4	10326.1	1247.6	10339.1	1247.0	10364.8
GR	1247.3	10417.8	1246.7	10524.0	1245.4	10559.4	1245.9	10674.7	1244.1	10688.3
GR	1244.7	10842.4	1244.6	11001.6	1243.8	11185.7	1243.0	11283.3	1241.2	11292.5
GR	1241.1	11426.8	1245.5	11443.5	1243.7	11458.2	1242.7	11489.2	1243.1	11543.1
GR	1244.4	11571.7	1244.1	11580.0	1242.1	11591.3	1242.0	11622.0	1243.4	11639.3
GR	1244.0	11684.9	1243.8	11727.2	1245.0	11744.2	1245.7	11777.1	1245.5	11885.8
GR	1244.3	11934.3	1244.7	11991.0	1246.2	12005.9	1244.7	12027.6	1245.5	12045.0
GR	1242.9	12107.6	1243.6	12121.8	1243.4	12140.1	1240.6	12155.5	1240.7	12187.2
GR	1272.2	12238.0								

ET	24.816		7.1				9680	12025		
X1	24.816	91	9702.2	10291.0	495	480	500.52			
GR	1260.5	7478.0	1259.3	7480.7	1263.8	7498.9	1248.5	7539.7	1247.4	7692.3
GR	1248.3	7711.0	1246.9	7720.6	1248.1	7731.1	1247.8	7768.6	1246.7	7774.4
GR	1248.0	7798.1	1247.1	7950.3	1248.8	8009.6	1247.6	8059.2	1249.1	8108.6
GR	1248.9	8258.9	1247.6	8282.8	1248.9	8326.8	1247.9	8402.6	1248.1	8449.1
GR	1247.0	8475.7	1248.1	8538.3	1248.1	8623.0	1246.7	8683.0	1247.5	8695.0
GR	1247.8	8857.7	1250.8	8928.0	1249.5	8957.6	1249.8	9110.8	1250.3	9268.2
GR	1250.0	9437.2	1249.5	9504.2	1250.0	9543.0	1248.3	9702.2	1245.7	9743.1
GR	1245.2	9772.3	1247.7	9781.6	1247.9	9785.3	1247.3	9787.7	1248.2	9813.1
GR	1247.4	9814.6	1247.4	9836.5	1241.8	9860.4	1242.0	9903.9	1244.1	9914.8

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GR	1245.4	9967.6	1245.3	10025.7	1247.1	10041.0	1248.3	10133.7	1248.8	10291.0
GR	1248.4	10467.4	1247.8	10536.2	1245.1	10553.7	1245.5	10599.9	1246.4	10626.9
GR	1248.2	10641.7	1247.2	10812.0	1245.9	10970.6	1245.0	11034.0	1243.2	11060.0
GR	1242.4	11235.9	1241.4	11298.6	1246.8	11359.6	1245.5	11457.3	1248.3	11487.7
GR	1248.0	11538.6	1248.7	11616.3	1246.5	11794.4	1245.2	11858.9	1243.4	11863.7
GR	1243.2	11874.1	1244.9	11913.1	1246.0	11956.8	1245.4	11982.9	1247.1	12043.2
GR	1245.3	12069.4	1245.6	12163.7	1247.6	12183.7	1245.9	12366.4	1245.3	12380.4
GR	1242.7	12402.5	1242.8	12428.0	1247.1	12453.6	1247.7	12466.7	1248.2	12517.5
GR	1246.9	12576.8	1243.6	12602.0	1245.9	12615.5	1246.1	12660.3	1245.3	12676.1
GR	1263.5	12713.0								

ET	24.910		7.1				9627	12200		
X1	24.910	92	9627.9	10254.4	485	485	497.86			
GR	1258.8	7560.2	1256.8	7563.9	1265.3	7583.1	1250.8	7617.8	1248.9	7633.4
GR	1250.4	7637.9	1251.2	7647.2	1248.0	7675.5	1249.1	7830.0	1247.5	7940.7
GR	1250.3	7967.8	1249.9	8139.1	1248.8	8174.4	1250.1	8347.8	1251.0	8509.3
GR	1249.2	8536.0	1249.9	8570.8	1251.3	8584.1	1251.5	8761.4	1249.9	8880.8
GR	1250.4	9038.1	1249.5	9091.6	1246.4	9105.5	1246.2	9130.4	1249.1	9148.0
GR	1248.8	9215.2	1250.9	9230.3	1250.0	9277.7	1250.9	9443.4	1251.5	9597.6

Effective Model Output  
AGUAFRIA.OUT

GR	1251.1	9627.9	1247.7	9639.1	1248.8	9715.5	1244.7	9736.3	1249.2	9896.5
GR	1248.7	9923.0	1246.5	9935.6	1247.0	9952.2	1250.1	9962.7	1249.6	10095.8
GR	1251.0	10254.4	1249.5	10415.9	1248.2	10531.8	1246.6	10571.7	1244.7	10723.3
GR	1245.0	10755.1	1247.5	10777.4	1246.9	10964.5	1245.6	11034.9	1243.9	11051.4
GR	1245.0	11153.4	1251.3	11176.2	1250.1	11234.3	1247.1	11263.6	1248.8	11277.2
GR	1248.5	11298.2	1250.2	11324.7	1245.3	11354.7	1249.5	11376.9	1248.6	11435.1
GR	1250.3	11451.1	1250.0	11591.9	1246.2	11675.7	1248.6	11707.1	1250.2	11778.7
GR	1251.1	11788.4	1249.0	11884.2	1250.7	11902.3	1250.5	11989.4	1245.5	12013.2
GR	1245.8	12060.2	1247.9	12096.4	1247.9	12198.2	1247.2	12213.2	1247.9	12350.9
GR	1246.4	12395.9	1244.2	12408.3	1244.1	12427.4	1248.0	12448.8	1248.0	12461.9
GR	1245.8	12473.9	1247.0	12490.3	1247.2	12513.5	1250.1	12532.1	1249.5	12707.2
GR	1249.5	12829.3	1250.5	12862.0	1248.7	12890.4	1248.4	12951.7	1246.7	12964.3
GR	1246.5	12975.7	1259.6	12997.3						

ET	24.996		7.1				9773	12290		
X1	24.996	96	9774.0	10632.3	435	440	453.24			
GR	1254.4	7668.6	1255.6	7682.4	1253.3	7774.4	1252.5	7785.0	1252.9	7828.8
GR	1250.8	7840.2	1249.6	7995.9	1250.5	8047.8	1250.3	8099.7	1248.3	8201.7
GR	1251.3	8255.4	1250.9	8411.0	1250.4	8444.6	1251.5	8463.0	1253.0	8566.7
GR	1250.8	8652.6	1252.5	8696.2	1251.2	8717.9	1252.0	8746.9	1253.0	8753.4
GR	1253.3	8948.2	1252.1	9141.0	1251.8	9301.7	1249.0	9319.2	1250.0	9345.0
GR	1249.7	9404.1	1251.9	9428.2	1253.9	9461.8	1251.9	9472.2	1253.0	9564.4
GR	1252.2	9619.0	1251.5	9625.6	1253.1	9632.6	1253.1	9774.0	1249.9	9791.3
GR	1251.3	9888.4	1248.8	9906.8	1246.5	9913.9	1246.3	9992.8	1251.7	10012.2
GR	1251.9	10171.5	1251.6	10198.7	1250.5	10222.4	1251.0	10358.3	1249.9	10397.4
GR	1247.8	10423.0	1247.9	10562.7	1251.0	10632.3	1251.3	10742.4	1250.8	10781.7
GR	1248.5	10834.6	1246.8	10901.3	1246.9	10937.6	1249.6	10961.7	1249.1	11048.3
GR	1246.4	11064.6	1246.4	11141.1	1250.7	11165.4	1250.6	11205.1	1251.4	11268.0
GR	1248.9	11363.8	1250.7	11381.9	1251.5	11417.3	1250.3	11433.5	1252.5	11592.2
GR	1252.6	11754.2	1251.3	11837.5	1252.5	11924.5	1247.9	11950.2	1249.3	12091.8
GR	1251.6	12125.4	1248.6	12142.4	1248.2	12162.5	1249.1	12171.5	1248.7	12200.8
GR	1248.0	12211.3	1249.8	12369.4	1250.4	12415.7	1248.6	12477.3	1248.6	12575.6
GR	1247.9	12565.5	1251.2	12585.7	1252.4	12638.3	1251.9	12653.4	1252.8	12687.0
GR	1251.6	12800.2	1253.2	12843.0	1252.7	12865.4	1251.6	12881.9	1252.7	12938.1
GR	1250.9	12975.2	1250.9	13009.4	1248.8	13019.0	1250.7	13059.6	1254.0	13074.1

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GR	1270.0	13110.8					9859	12250		
ET	25.098		7.1							
X1	25.098	91	9859.6	10546.5	535	520	539.62			
GR	1263.1	7925.6	1262.8	7930.1	1265.1	7951.6	1260.3	7968.4	1264.8	7995.4
GR	1259.5	8009.4	1258.1	8021.7	1257.3	8046.6	1254.3	8060.4	1253.2	8124.7
GR	1254.0	8215.3	1253.4	8247.2	1251.8	8267.1	1250.8	8316.4	1250.6	8451.7
GR	1251.4	8455.6	1254.7	8496.2	1254.2	8678.5	1253.8	8781.4	1254.8	8911.4
GR	1252.7	8928.9	1253.0	8956.9	1254.9	8967.5	1254.9	9141.7	1254.7	9296.6
GR	1254.0	9455.1	1254.7	9508.0	1254.3	9560.9	1254.9	9648.2	1251.7	9661.4
GR	1250.9	9699.0	1253.7	9845.4	1255.2	9859.6	1252.9	10042.7	1252.9	10047.9
GR	1249.7	10076.5	1250.9	10121.4	1250.2	10248.8	1251.9	10300.9	1251.8	10459.5
GR	1252.8	10546.5	1252.0	10565.2	1252.7	10619.1	1251.8	10643.8	1251.9	10723.8
GR	1250.6	10757.8	1252.5	10784.3	1251.4	10938.4	1251.0	11029.3	1248.9	11041.4
GR	1248.6	11131.0	1253.4	11145.7	1252.4	11217.0	1253.7	11329.6	1252.8	11416.3
GR	1253.9	11569.4	1255.1	11622.4	1254.8	11783.3	1253.0	11885.9	1251.7	11898.4
GR	1252.9	11925.1	1250.7	11938.6	1251.3	12032.1	1250.8	12046.4	1249.0	12071.6
GR	1249.2	12111.2	1251.3	12128.1	1251.6	12138.9	1254.2	12171.0	1254.6	12323.1
GR	1255.1	12353.5	1250.5	12370.6	1251.4	12408.3	1251.0	12451.5	1252.8	12467.5
GR	1252.6	12534.1	1251.9	12546.2	1253.5	12564.8	1253.2	12611.7	1252.4	12627.7
GR	1253.5	12657.6	1252.4	12684.0	1253.1	12696.6	1253.0	12739.9	1251.0	12814.5
GR	1253.6	12841.9	1255.3	12943.2	1257.2	12959.3	1257.1	12967.1	1256.1	12972.0
GR	1259.5	12985.5								

NC	.050	.050	.030							
QT	2	29000	29000							
ET	25.192	9.1	7.1				9850	12000	8282.6	12674.3
X1	25.192	95	9851.9	10463.2	540	495	498.98			
GR	1260.8	8057.2	1259.8	8070.1	1260.2	8075.7	1264.4	8105.0	1260.5	8124.2
GR	1261.4	8130.8	1265.2	8150.7	1256.9	8184.9	1255.9	8212.1	1257.8	8225.3
GR	1257.5	8282.6	1254.4	8303.3	1255.6	8329.0	1256.7	8339.2	1256.2	8342.1
GR	1254.8	8400.4	1253.0	8415.6	1252.8	8537.0	1253.4	8561.9	1253.1	8587.9
GR	1253.9	8638.7	1254.1	8782.1	1255.6	8841.9	1255.9	8999.2	1256.2	9116.9
GR	1254.4	9127.7	1255.0	9143.5	1255.0	9156.4	1256.4	9164.4	1255.9	9197.5
GR	1256.1	9378.4	1255.9	9421.4	1256.6	9464.5	1256.8	9618.6	1256.4	9722.8
GR	1257.2	9813.1	1257.1	9851.9	1254.7	9860.0	1253.1	9867.0	1253.5	9929.4
GR	1253.0	9972.0	1254.1	10013.5	1253.0	10025.8	1252.1	10049.3	1250.4	10071.7
GR	1250.0	10110.2	1251.3	10185.5	1253.3	10215.0	1254.2	10243.6	1251.4	10290.0
GR	1252.9	10343.6	1254.2	10463.2	1253.9	10554.9	1254.3	10607.9	1253.5	10777.0
GR	1253.2	10862.6	1252.3	10888.7	1250.5	10904.0	1250.7	10963.8	1256.0	11005.7
GR	1256.2	11025.3	1253.7	11137.8	1254.3	11190.8	1254.0	11307.0	1254.9	11410.0
GR	1254.9	11483.1	1255.4	11620.7	1253.8	11691.0	1251.2	11756.7	1253.4	11780.4
GR	1253.6	11787.1	1252.6	11819.6	1250.9	11841.8	1250.7	11883.2	1256.0	11905.0
GR	1256.9	12002.6	1256.8	12028.3	1254.1	12072.1	1255.9	12119.8	1255.9	12130.0
GR	1254.2	12139.8	1254.8	12183.4	1253.8	12237.6	1256.4	12258.0	1256.4	12279.7
GR	1255.2	12318.3	1256.2	12333.7	1256.7	12350.8	1256.4	12443.4	1255.1	12497.5
GR	1255.6	12549.5	1255.6	12602.7	1254.4	12630.7	1253.5	12644.3	1264.2	12674.3

ET	25.288		7.1				9800	11825		
X1	25.288	93	9806.4	10365.7	550	500	504.04			
GR	1259.7	8627.7	1265.4	8674.1	1260.9	8701.1	1265.6	8729.3	1260.3	8762.5
GR	1258.1	8818.3	1257.7	8869.0	1256.2	8902.4	1256.3	8978.5	1255.7	8987.7
GR	1255.4	9004.8	1255.6	9041.3	1256.6	9055.8	1256.3	9068.6	1256.5	9118.7
GR	1256.3	9168.8	1257.3	9201.1	1256.1	9220.7	1257.3	9268.9	1257.3	9297.8

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Effective Model Output  
AGUAFRIA.OUT

GR	1256.7	9307.8	1257.2	9323.0	1257.3	9334.0	1257.7	9343.7	1258.1	9474.1
GR	1257.3	9521.8	1258.5	9569.6	1257.9	9619.3	1259.7	9719.4	1259.1	9806.4
GR	1256.5	9817.9	1255.0	9841.1	1253.7	9854.6	1254.4	9876.5	1253.2	9929.5
GR	1251.9	9956.7	1251.4	9982.5	1251.3	10020.7	1252.2	10036.7	1253.5	10088.5
GR	1254.0	10141.4	1255.0	10201.6	1255.3	10242.4	1252.9	10300.4	1252.9	10322.5
GR	1253.4	10343.7	1254.9	10365.7	1254.8	10375.1	1255.2	10386.6	1255.9	10393.3
GR	1256.7	10459.3	1256.1	10618.2	1256.0	10632.1	1254.4	10676.7	1254.9	10707.7
GR	1254.5	10727.1	1256.1	10735.8	1257.1	10778.7	1257.7	10830.1	1257.8	10871.3
GR	1258.3	10907.8	1256.6	10938.0	1255.9	10958.1	1256.7	11086.1	1256.6	11099.8
GR	1255.2	11148.0	1256.4	11262.8	1257.2	11361.9	1256.8	11377.2	1254.6	11423.3
GR	1254.9	11445.2	1254.6	11515.2	1253.7	11562.6	1252.4	11610.0	1255.3	11639.4
GR	1255.8	11655.2	1256.7	11665.0	1257.9	11705.5	1258.0	11725.2	1257.6	11758.3
GR	1258.1	11795.1	1257.9	11854.5	1255.9	11907.2	1256.7	11921.9	1256.5	11972.5
GR	1258.0	11995.4	1258.6	12145.0	1258.4	12170.6	1257.3	12205.8	1257.3	12277.3
GR	1256.4	12316.5	1258.0	12352.3	1260.8	12365.4				

ET	25.382		7.1				9740	11690		
XI	25.382	94	9742.2	10312.4	440	495	497.55			
GR	1263.0	9110.4	1262.0	9141.4	1261.0	9161.4	1260.7	9172.7	1260.9	9176.1
GR	1264.2	9190.8	1267.1	9208.8	1263.7	9218.2	1262.6	9230.0	1262.0	9233.4
GR	1260.9	9263.3	1259.0	9276.5	1258.6	9285.5	1258.1	9291.5	1257.4	9304.2
GR	1257.1	9330.9	1258.7	9343.2	1258.2	9373.3	1258.8	9410.4	1258.5	9415.0
GR	1258.1	9426.6	1258.4	9449.0	1259.3	9474.3	1259.2	9575.3	1259.6	9628.2
GR	1259.0	9683.2	1259.3	9695.9	1259.5	9738.6	1259.4	9742.2	1253.8	9762.6
GR	1255.2	9840.1	1255.1	9946.0	1255.2	9988.9	1253.8	10051.9	1253.7	10109.3
GR	1255.3	10210.7	1255.2	10226.6	1255.5	10268.0	1255.0	10282.6	1256.7	10312.4
GR	1257.6	10369.6	1258.2	10422.9	1256.0	10530.6	1257.9	10546.8	1258.4	10581.5
GR	1257.7	10634.4	1257.6	10740.4	1258.5	10792.6	1258.8	10846.3	1258.4	10952.2
GR	1258.8	11005.1	1258.5	11051.0	1258.5	11090.3	1257.0	11233.3	1256.4	11278.9
GR	1256.9	11309.5	1257.2	11316.9	1257.5	11341.0	1257.3	11359.7	1256.8	11375.8
GR	1257.4	11426.0	1257.2	11452.8	1257.4	11457.7	1259.5	11485.1	1259.1	11503.3
GR	1257.5	11520.3	1257.3	11542.5	1259.5	11562.4	1259.3	11584.1	1260.1	11637.2
GR	1259.9	11692.7	1260.1	11708.0	1258.1	11725.5	1257.6	11747.1	1257.9	11781.6
GR	1257.8	11821.4	1260.1	11848.5	1259.6	11856.9	1259.4	11873.3	1258.8	11888.3
GR	1258.6	11898.8	1259.5	11911.1	1259.5	11919.4	1258.5	11932.5	1258.0	11943.7
GR	1257.6	11962.7	1259.3	11984.4	1259.6	11994.2	1259.4	12014.8	1259.1	12018.3
GR	1259.7	12026.4	1258.3	12062.1	1263.0	12087.9	1265.9	12099.8		

ET	25.478		7.1				9750	11715		
XI	25.478	93	9750.7	10127.1	535	475	506.15			
GR	1266.4	9454.8	1266.3	9462.5	1266.6	9467.0	1264.1	9480.2	1262.3	9493.0
GR	1267.1	9518.7	1262.5	9537.0	1262.0	9559.9	1262.1	9574.0	1258.4	9603.5
GR	1258.9	9613.7	1260.9	9630.3	1261.6	9638.5	1261.9	9668.7	1262.0	9731.0
GR	1261.9	9750.7	1256.0	9783.0	1254.8	9809.7	1255.0	9818.3	1254.8	9843.9
GR	1257.0	9867.9	1256.9	9871.4	1256.5	9925.9	1256.2	9967.1	1256.2	9978.3
GR	1255.4	10002.9	1254.7	10024.1	1254.5	10043.4	1254.3	10083.1	1253.9	10104.4
GR	1253.9	10108.1	1257.7	10127.1	1257.7	10134.0	1258.0	10169.9	1258.2	10187.9
GR	1258.4	10223.6	1258.5	10240.3	1258.5	10263.4	1258.3	10292.7	1257.0	10332.0
GR	1257.6	10345.1	1257.5	10395.5	1257.1	10411.4	1258.2	10417.9	1258.1	10431.7
GR	1257.6	10450.0	1257.5	10504.6	1257.4	10539.4	1257.1	10566.7	1260.3	10593.4
GR	1260.2	10598.2	1261.0	10622.4	1261.1	10659.6	1261.4	10711.1	1261.4	10711.9
GR	1261.0	10764.3	1260.7	10821.9	1260.8	10869.1	1260.7	10883.2	1260.8	10921.5
GR	1260.5	10959.6	1260.3	10981.5	1260.2	11026.3	1260.0	11078.8	1259.8	11101.1
GR	1259.5	11131.2	1259.5	11141.0	1259.8	11183.6	1259.6	11234.0	1260.8	11248.0

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GR	1260.6	11288.4	1260.1	11313.0	1259.7	11329.7	1260.3	11340.8	1260.1	11369.5
GR	1260.0	11382.3	1260.0	11422.5	1260.8	11433.9	1260.5	11477.6	1259.8	11498.0
GR	1260.0	11506.6	1260.8	11539.1	1260.8	11551.3	1260.5	11589.5	1260.4	11591.7
GR	1261.0	11612.2	1259.6	11628.8	1258.8	11665.3	1258.9	11666.4	1259.7	11701.5
GR	1260.5	11739.0	1260.7	11748.7	1270.5	11764.3				

ET	25.526	9.1	7.1				9779	11805	9639.4	11600
XI	25.526	95	9779.3	10104.4	255	255	253.16			
GR	1267.1	9542.2	1262.9	9577.3	1266.7	9597.2	1263.5	9616.8	1263.7	9639.4
GR	1263.5	9661.4	1262.4	9668.4	1262.7	9671.0	1262.7	9696.8	1262.5	9712.4
GR	1262.7	9773.0	1262.5	9779.3	1254.8	9812.3	1254.6	9828.4	1255.5	9842.9
GR	1257.0	9870.7	1257.0	9906.3	1256.7	9922.2	1256.3	9959.7	1256.1	9974.6
GR	1255.5	10027.1	1254.7	10054.4	1253.9	10086.4	1253.7	10090.4	1257.1	10104.4
GR	1257.6	10141.6	1257.8	10184.4	1258.3	10221.3	1258.5	10236.9	1258.8	10266.8
GR	1259.0	10289.3	1258.4	10328.2	1258.2	10342.0	1258.6	10393.6	1259.6	10412.1
GR	1259.7	10446.7	1259.5	10460.3	1259.3	10499.1	1258.5	10551.5	1258.1	10574.0
GR	1257.8	10604.0	1257.9	10636.4	1258.0	10651.3	1258.4	10658.5	1260.6	10670.8
GR	1260.9	10700.5	1262.0	10715.8	1260.9	10758.3	1260.5	10806.2	1260.8	10813.8
GR	1261.1	10834.3	1261.4	10859.6	1261.3	10866.3	1261.2	10898.4	1261.4	10938.2
GR	1261.5	10971.2	1261.3	10999.8	1261.2	11023.6	1261.5	11057.7	1261.3	11097.5
GR	1261.1	11137.4	1260.8	11165.3	1260.9	11193.3	1261.8	11228.0	1261.8	11256.5
GR	1262.0	11285.8	1262.0	11296.2	1261.3	11355.7	1260.6	11388.5	1259.5	11416.0
GR	1261.3	11433.1	1261.3	11435.7	1259.9	11469.9	1259.5	11476.3	1259.4	11483.9
GR	1257.4	11495.7	1257.9	11522.5	1259.0	11562.2	1259.2	11574.1	1259.9	11599.5
GR	1260.1	11606.8	1259.9	11626.7	1261.2	11652.2	1259.6	11677.4	1261.5	11691.2
GR	1261.9	11696.0	1262.2	11720.6	1260.9	11730.3	1261.0	11767.0	1261.1	11778.8
GR	1259.4	11786.2	1259.3	11801.8	1266.3	11813.0	1267.2	11816.6	1269.8	11833.1

ET	25.572	9.1	7.1				9840	11210	9671.0	11498.9
XI	25.572	75	9849.9	10115.3	255	240	245.34			
GR	1265.5	9602.5	1266.5	9616.5	1262.8	9641.1	1268.5	9671.0	1267.5	9677.5
GR	1264.7	9690.9	1264.5	9714.1	1264.1	9729.4	1263.8	9739.2	1263.0	9795.2
GR	1263.4	9803.7	1263.8	9809.2	1262.2	9818.8	1259.6	9830.1	1258.4	9846.0
GR	1257.7	9849.9	1255.8	9858.6	1254.7	9862.5	1255.2	9876.1	1255.3	9881.1
GR	1256.0	9900.3	1256.2	9902.5	1255.9	9913.5	1255.9	9918.4	1255.7	9958.7

Effective Model Output  
AGUAFRIA.OUT

GR	1255.4	10011.1	1255.0	10056.4	1255.2	10098.7	1257.7	10115.3	1258.1	10168.3
GR	1258.2	10198.5	1258.3	10220.8	1258.4	10277.5	1259.4	10325.6	1259.4	10335.1
GR	1260.2	10386.3	1260.3	10412.0	1260.3	10430.4	1260.0	10482.8	1259.3	10535.2
GR	1258.9	10574.3	1258.7	10587.6	1258.4	10613.1	1258.1	10640.1	1258.1	10650.1
GR	1260.7	10664.8	1261.9	10687.0	1261.1	10705.0	1261.2	10710.8	1262.1	10744.9
GR	1262.5	10773.7	1262.3	10813.6	1262.2	10865.4	1262.2	10902.1	1262.1	10918.8
GR	1262.0	10954.4	1261.5	10995.4	1261.0	11045.9	1261.2	11071.8	1261.7	11111.7
GR	1262.3	11148.2	1262.5	11164.1	1262.5	11198.9	1262.1	11258.4	1261.9	11269.4
GR	1260.8	11298.6	1260.0	11321.4	1259.6	11332.0	1258.6	11422.1	1258.6	11428.1
GR	1263.9	11443.4	1269.1	11458.3	1274.7	11471.9	1276.1	11483.8	1276.5	11498.9

ET	25.666	9.1	7.1				9830	10810	9765.6	11195.3
X1	25.666	66	9842.4	10115.1	525	480	496.68			
GR	1275.1	9731.1	1266.5	9742.2	1262.3	9747.3	1268.1	9765.6	1265.6	9789.2
GR	1263.2	9809.0	1261.8	9820.4	1259.6	9837.2	1259.8	9842.4	1255.4	9854.2
GR	1255.5	9869.6	1256.6	9907.7	1256.6	9916.6	1257.0	9929.5	1256.6	9945.6
GR	1256.5	9949.5	1256.5	9960.5	1256.4	9998.6	1256.7	10050.9	1256.2	10095.0
GR	1258.3	10115.1	1259.3	10155.5	1259.4	10170.1	1259.4	10210.2	1259.6	10250.2
GR	1259.6	10260.2	1259.8	10279.0	1260.0	10312.4	1260.4	10354.5	1260.6	10364.7

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GR	1260.6	10388.0	1260.6	10430.0	1260.6	10469.4	1260.5	10490.3	1260.6	10521.7
GR	1261.1	10577.4	1261.3	10588.1	1264.4	10607.2	1264.4	10610.8	1263.8	10643.8
GR	1263.5	10654.2	1264.6	10672.1	1264.3	10700.6	1263.5	10714.3	1263.1	10727.6
GR	1263.3	10732.9	1263.9	10738.0	1264.3	10744.6	1264.1	10757.9	1263.9	10783.2
GR	1263.4	10835.5	1262.7	10890.4	1261.4	10940.1	1260.7	10986.7	1260.2	11013.2
GR	1259.9	11020.1	1260.3	11048.1	1260.3	11069.2	1260.8	11097.6	1260.9	11102.2
GR	1262.5	11108.2	1269.9	11136.7	1272.2	11149.3	1277.0	11186.8	1277.3	11190.7
GR	1278.3	11195.3								

ET	25.691		7.1				9521	10500		
X1	25.691	49	9521.3	10196.0	470	460	460			
GR	1288.0	9103.6	1288.0	9125.2	1287.5	9136.0	1286.0	9156.2	1284.0	9168.9
GR	1282.0	9180.9	1280.8	9183.5	1280.0	9186.4	1274.0	9196.3	1264.0	9213.0
GR	1264.0	9373.5	1263.4	9400.1	1262.5	9485.0	1262.0	9498.9	1262.0	9511.0
GR	1263.6	9521.3	1263.3	9522.6	1262.0	9568.4	1262.0	9659.5	1261.6	9714.1
GR	1260.0	9921.4	1260.0	9938.7	1258.0	9949.6	1258.0	10121.7	1260.0	10129.1
GR	1260.0	10187.9	1262.0	10196.0	1262.0	10287.1	1263.8	10303.5	1264.0	10307.4
GR	1264.0	10370.7	1263.6	10376.4	1263.1	10389.2	1262.0	10401.9	1262.0	10445.4
GR	1262.3	10497.6	1262.0	10555.0	1262.0	10623.2	1263.4	10636.5	1264.0	10644.5
GR	1264.0	10787.1	1264.7	10808.9	1266.0	10847.3	1267.8	10862.2	1268.3	10864.2
GR	1272.0	10873.3	1282.0	10899.4	1284.0	10905.7	1286.9	10913.0		

ET	25.72		7.1				9370	10300		
X1	25.72	19	9925	10075	355	355	375			
GR	1300	8680	1280	8775	1272	8800	1268	8870	1264	9275
GR	1265	9370	1264	9475	1263.6	9635	1264	9785	1265.2	9835
GR	1264	9925	1257.8	10000	1260	10075	1264	10380	1265.2	10500
GR	1264	10630	1264	10665	1280	10715	1282	10770		

ET	25.79		7.1				9300	10250		
X1	25.79	18	9930	10060	350	350	350			
GR	1300	8320	1280	8370	1272	8390	1268	8690	1264	9405
GR	1264	9465	1267	9720	1264	9835	1264	9930	1260	9950
GR	1258.8	10000	1260	10060	1264	10325	1265.5	10400	1264	10480
GR	1264	10500	1276	10530	1280	10620				

ET	25.86		7.1				9150	10201		
X1	25.86	25	9940	10200	400	400	400			
GR	1300	7650	1280	7740	1276	7750	1272	8220	1268	8300
GR	1267.5	8340	1268	8395	1270.8	8500	1268	8615	1267.6	8690
GR	1268	8795	1268	8960	1269	9060	1268	9190	1265.6	9335
GR	1266	9600	1268	9740	1268	9820	1264	9940	1260	9950
GR	1260	10055	1264	10200	1280	10215	1280	10300	1284	10340

NC	0.060	0.065	.035				9080	10280		
ET	25.94		7.1				430			
X1	25.94	21.0	9945	10117	450	420	430			
GR	1276.1	7527	1273	7678	1273.9	7868	1272.1	8087.0	1270.3	8382.0
GR	1270.3	8578.0	1268.1	8600.0	1271.4	8631.0	1271.2	8762.0	1270.1	9101.0
GR	1267.2	9241.0	1271.2	9532.0	1269.2	9945.0	1264.2	10000.0	1267.0	10117.0
GR	1263.4	10185.0	1270.1	10242.0	1270.3	10425.0	1269.7	10480.0	1269.0	10780.0
GR	1276.0	11050.0								

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ET	26.03		7.1				9170	10690		
X1	26.03	22.0	9605	10107	310	500	460			
GR	1277.6	7761.0	1275.0	7965.0	1272.8	8180.0	1274.1	8487.0	1270.2	8635.0
GR	1272.2	8747.0	1272.2	8889.0	1270.7	9174.0	1267.9	9265.0	1270.7	9439.0
GR	1272.1	9605.0	1270.7	9845.0	1266.3	10000.0	1269.6	10107.0	1269.9	10219.0
GR	1273.0	10283.0	1271.8	10664.0	1268.7	11124.0	1272.8	11140.0	1273.1	11345.0
GR	1284.0	11870.0	1300.0	11940.0						

ET	26.12		7.1				9180	11020		
X1	26.12	28.0	9730	10061	410	505	450			
GR	1310.6	7955.0	1276.8	8051.0	1274.9	8267.0	1275.4	8550.0	1272.1	8783.0
GR	1270.2	8813.0	1273.9	8961.0	1269.7	9161.0	1272.6	9271.0	1272.1	9355.0
GR	1269.5	9382.0	1269.2	9454.0	1271.4	9484.0	1273.5	9730.0	1271.8	9883.0
GR	1268.8	9911.0	1267.6	10000.0	1273.8	10061.0	1273.4	10283.0	1270.5	10295.0
GR	1270.5	10363.0	1274.3	10560.0	1271.8	11007.0	1269.0	11312.0	1275.1	11342.0

Effective Model Output  
AGUAFRIA.OUT

GR	1274.1	11756.0	1277.8	11914.0	1278.2	12020.0						
ET	26.20		7.1				9230	11060				
X1	26.20	26.0	9682	10073	460	460	460					
GR	1320.0	8155.0	1277.3	8236.0	1276.5	8710.0	1273.9	8733.0	1273.6	9010.0		
GR	1274.0	9129.0	1271.7	9154.0	1274.9	9355.0	1275.5	9682.0	1274.3	9926.0		
GR	1270.1	9945.0	1269.2	10000.0	1269.9	10056.0	1276.9	10073.0	1276.8	10428.0		
GR	1271.8	10571.0	1276.1	10720.0	1274.9	10973.0	1272.2	11247.0	1277.7	11340.0		
GR	1276.7	11610.0	1277.7	12125.0	1280.9	12452.0	1277.2	12466.0	1311.7	12568.0		
GR	1311.5	12620.0										
ET	26.29		7.1				9380	11060				
X1	26.29	26.0	9696	10120	460	410	440					
GR	1307.9	8275.0	1279.3	8338.0	1278.4	8722.0	1275.7	8754.0	1276.5	8962.0		
GR	1277.4	9349.0	1273.2	9372.0	1276.7	9696.0	1274.9	9925.0	1271.6	9943.0		
GR	1271.6	10000.0	1273.7	10084.0	1278.8	10120.0	1278.2	10393.0	1278.4	10757.0		
GR	1275.0	11021.0	1273.9	11201.0	1279.2	11227.0	1276.8	11724.0	1278.8	11784.0		
GR	1280.5	12462.0	1281.9	12794.0	1279.6	12804.0	1312.6	12882.0	1311.4	13079.0		
GR	1312.6	13190.0										
ET	26.37		7.1				9480	10990				
X1	26.37	28.0	9764	10060	490	460	460					
GR	1341.1	8245.0	1302.1	8325.0	1310.7	8385.0	1284.2	8489.0	1279.3	8679.0		
GR	1280.9	8794.0	1277.2	8820.0	1277.0	9094.0	1279.8	9111.0	1278.4	9552.0		
GR	1272.6	9626.0	1278.0	9764.0	1275.2	9930.0	1271.9	10000.0	1271.9	10035.0		
GR	1276.6	10060.0	1279.7	10278.0	1279.2	10714.0	1274.3	11081.0	1281.5	11109.0		
GR	1277.0	11260.0	1276.8	11323.0	1279.4	11846.0	1281.5	12564.0	1282.1	13117.0		
GR	1292.3	13193.0	1308.9	13246.0	1327.1	13564.0						
NC	0.060	0.070	0.035									
QT	2	27000	27000									
ET	26.47		7.1				9500	10820				
X1	26.47	28.0	9639	10087	510	480	490					
GR	1320.7	8320.0	1318.5	8426.0	1293.6	8594.0	1293.6	8634.0	1285.0	8688.0		
GR	1283.1	8975.0	1280.1	9010.0	1279.7	9341.0	1280.1	9639.0	1275.8	10000.0		
GR	1275.3	10038.0	1280.3	10087.0	1281.9	10375.0	1278.4	10594.0	1276.5	10860.0		
GR	1278.1	11007.0	1282.7	11032.0	1282.6	11262.0	1283.4	11594.0	1281.7	12356.0		
GR	1284.0	13073.0	1288.7	13168.0	1285.7	13183.0	1288.5	13347.0	1317.8	13452.0		
1												
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GR	1321.3	13514.0	1321.3	13579.0	1331.5	13676.0						
ET	26.55		7.1				9600	10730				
X1	26.55	31.0	9728	10117	420	430	430					
GR	1322.8	8495.0	1310.2	8630.0	1303.3	8745.0	1287.3	8834.0	1288.9	8876.0		
GR	1285.1	8930.0	1285.1	8942.0	1289.1	8956.0	1285.3	9217.0	1279.5	9245.0		
GR	1282.0	9507.0	1283.3	9728.0	1278.7	9978.0	1276.9	10000.0	1276.6	10080.0		
GR	1280.0	10117.0	1282.0	10254.0	1278.2	10786.0	1281.2	10897.0	1280.9	10931.0		
GR	1284.3	10981.0	1284.1	11205.0	1283.5	11788.0	1283.8	13009.0	1286.5	13411.0		
GR	1289.8	13440.0	1287.7	13464.0	1295.1	13616.0	1305.6	13865.0	1304.1	14055.0		
GR	1333.3	14131.0										
ET	26.63		7.1				9780	10770				
X1	26.63	22.0	9792	10187	440	470	460					
GR	1310.9	9050.0	1310.0	9116.0	1288.0	9208.0	1286.8	9488.0	1282.7	9510.0		
GR	1282.7	9641.0	1284.1	9792.0	1279.5	10000.0	1281.8	10187.0	1280.9	10467.0		
GR	1279.4	10741.0	1282.9	10861.0	1283.0	11016.0	1285.4	11057.0	1285.6	11351.0		
GR	1283.8	12475.0	1286.4	13757.0	1288.6	13810.0	1348.8	13939.0	1348.8	13956.0		
GR	1345.6	13961.0	1345.6	13967.0								
ET	26.73	9.1	7.1				9870	10850	9355	13648		
X1	26.73	31.0	9898	10125	460	470	490					
GR	1312.2	9355.0	1313.9	9457.0	1289.8	9540.0	1287.5	9720.0	1282.4	9755.0		
GR	1285.6	9834.0	1280.7	9898.0	1279.8	10000.0	1279.9	10125.0	1279.9	10364.0		
GR	1283.4	10385.0	1283.4	10521.0	1280.9	10543.0	1283.2	10628.0	1285.7	11057.0		
GR	1287.2	11263.0	1286.8	11621.0	1286.8	13292.0	1287.3	13590.0	1290.5	13648.0		
GR	1286.3	13673.0	1302.5	13759.0	1293.3	13811.0	1295.0	13870.0	1317.7	13944.0		
GR	1310.7	13981.0	1332.7	14126.0	1350.7	14161.0	1350.7	14176.0	1346.0	14188.0		
GR	1346.0	14190.0										
ET	26.83		7.1				9874	10870				
X1	26.83	25.0	9898	10125	550	330	540					
GR	1303.7	9740.0	1304.8	9785.0	1291.2	9827.0	1289.4	9869.0	1282.6	9898.0		
GR	1282.5	10000.0	1282.3	10125	1282.0	10343.0	1286.0	10362.0	1286.3	10962.0		
GR	1284.8	11136.0	1288.0	11195.0	1288.0	11584.0	1287.5	12676.0	1288.5	13514.0		
GR	1323.9	13589.0	1321.5	13669.0	1323.6	13742.0	1318.5	13788.0	1323.7	13842.0		
GR	1323.6	13996.0	1336.4	14099.0	1350.0	14129.0	1350.0	14147.0	1344.2	14188.0		
ET	26.94		7.1				9806	10710				
X1	26.94	24.0	9944	10174	620	350	590					
GR	1311.5	9330.0	1313.5	9568.0	1301.3	9733.0	1304.3	9766.0	1285.5	9819.0		
GR	1282.1	9944.0	1282.1	10000.0	1282.1	10174.0	1286.5	10203.0	1286.1	10597.0		
GR	1288.8	10687.0	1285.8	10979.0	1288.7	11028.0	1289.1	12153.0	1289.7	13042.0		
GR	1289.8	13168.0	1307.7	13292.0	1311.9	13387.0	1325.6	13469.0	1332.0	13579.0		
GR	1347.6	13613.0	1348.7	13642.0	1344.2	13687.0	1371.6	13825.0				
ET	27.03		7.1				9704	10500				
X1	27.03	23.0	9922	10079	490	340	460					
GR	1307.8	9627.0	1301.5	9679.0	1283.2	9723.0	1281.2	9814.0	1282.6	9900.0		
GR	1287.2	9922.0	1283.5	9949.0	1283.4	10000.0	1283.4	10054.0	1286.2	10079.0		
GR	1288.9	10450.0	1290.7	10553.0	1288.0	10732.0	1291.0	10749.0	1291.0	11081.0		
GR	1291.4	12573.0	1293.7	12649.0	1291.4	12657.0	1301.2	12783.0	1303.3	12821.0		
GR	1300.5	12889.0	1319.6	12961.0	1330.8	13050.0						

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Effective Model Output  
AGUAFRIA.OUT

QT	2	25000	25000				9060	10100		
ET	27.86		7.1							
X1	27.86	26.0	9774	10057	475	475	475			
GR	1358.6	7370.0	1357.4	7490.0	1305.9	7590.0	1305.1	7679.0	1306.9	7724.0
GR	1304.3	7955.0	1306.2	8085.0	1306.5	8344.0	1304.6	8368.0	1302.2	8643.0
GR	1305.5	8831.0	1304.8	8916.0	1301.0	8947.0	1302.8	8992.0	1300.8	9044.0
GR	1303.5	9253.0	1303.9	9557.0	1302.6	9774.0	1302.6	10000.0	1297.5	10057.0
GR	1303.4	10079.0	1307.2	10153.0	1309.6	10215.0	1317.9	10297.0	1326.0	10458.0
GR	1326.0	10470.0								
ET	27.94		7.1				9320	10203		
X1	27.94	24.0	9944	10187	415	440	440			
GR	1360.4	7500.0	1356.7	7704.0	1305.1	7886.0	1307.7	8084.0	1306.0	8202.0
GR	1307.3	8314.0	1308.0	8514.0	1308.2	8676.0	1304.3	8729.0	1304.4	8806.0
GR	1308.0	9057.0	1304.2	9174.0	1306.7	9260.0	1302.0	9309.0	1301.5	9374.0
GR	1303.4	9391.0	1304.1	9657.0	1304.1	9944.0	1299.1	10000.0	1303.6	10035.0
GR	1303.5	10187.0	1309.6	10212.0	1323.7	10246.0	1327.4	10339.0		

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ET	28.04		7.1				9480	10440		
X1	28.04	21.0	9809	10061	550	500	500			
GR	1345.0	8125.0	1309.0	8286.0	1309.0	8455.0	1307.5	8565.0	1310.2	8688.0
GR	1309.6	8882.0	1306.3	8896.0	1305.6	9028.0	1308.7	9235.0	1309.4	9371.0
GR	1303.8	9579.0	1304.6	9809.0	1303.6	10000.0	1307.5	10061.0	1308.3	10293.0
GR	1304.5	10352.0	1305.9	10537.0	1303.6	10605.0	1306.0	10675.0	1308.0	10825.0
GR	1310.1	10866.0								
ET	28.12		7.1				9600	10570		
X1	28.12	27.0	9906	10076	440	460	450			
GR	1357.3	8340.0	1355.3	8384.0	1323.5	8506.0	1320.1	8630.0	1313.6	8697.0
GR	1309.5	8719.0	1311.3	8878.0	1311.1	9108.0	1307.8	9129.0	1307.5	9182.0
GR	1310.6	9258.0	1308.2	9300.0	1310.5	9411.0	1308.6	9524.0	1306.6	9675.0
GR	1304.9	9906.0	1304.6	10000.0	1304.6	10076.0	1310.3	10107.0	1310.7	10411.0
GR	1306.3	10527.0	1307.3	10680.0	1308.6	10781.0	1308.5	10866.0	1310.8	10916.0
GR	1312.7	11051.0	1314.2	11435.0						
ET	28.21	9.1	7.1				9700	10650	9180	12000
X1	28.21	21.0	9798	10069	480	480	480			
GR	1360.5	8595.0	1318.3	8761.0	1314.8	9008.0	1311.1	9043.0	1313.3	9180.0
GR	1310.7	9367.0	1311.9	9409.0	1309.5	9475.0	1309.7	9578.0	1306.9	9798.0
GR	1304.4	10000.0	1304.4	10069.0	1313.2	10109.0	1311.2	10430.0	1307.7	10565.0
GR	1308.3	10866.0	1313.9	10897.0	1314.6	11140.0	1313.1	11286.0	1315.4	11570.0
GR	1316.0	12000.0								

ET	28.31		7.1				9710	10720		
X1	28.31	21.0	9935	10124	465	490	490			
GR	1363.0	8875.0	1361.0	8938.0	1323.3	9094.0	1319.8	9226.0	1315.1	9248.0
GR	1315.1	9282.0	1317.9	9301.0	1315.9	9334.0	1313.8	9558.0	1311.7	9598.0
GR	1307.7	9798.0	1307.7	9935.0	1305.9	10000.0	1307.3	10124.0	1312.9	10196.0
GR	1312.3	10523.0	1309.2	10862.0	1311.1	10975.0	1315.6	11037.0	1315.6	11427.0
GR	1320.0	12570.0								
ET	28.39	9.1	7.1				9870	10730	9750	13160
X1	28.39	23.0	9880	10074	400	435	435			
GR	1325.9	9562.0	1321.1	9645.0	1315.0	9685.0	1317.1	9750.0	1312.5	9816.0
GR	1308.6	9880.0	1306.7	10000.0	1308.8	10074.0	1308.8	10197.0	1307.2	10211.0
GR	1314.8	10356.0	1314.4	10568.0	1310.9	10728.0	1311.8	10810.0	1310.9	10996.0
GR	1312.4	11018.0	1313.8	11151.0	1314.3	11372.0	1311.9	11409.0	1314.4	11493.0
GR	1317.0	11548.0	1319.4	12117.0	1328.1	13160.0				
ET	28.45	9.1	7.1				9936	10440	9475	11299
X1	28.45	34.0	9936	10186	270	460	320			
GR	1363.2	9475.0	1324.8	9653.0	1340.3	9752.0	1348.3	9874.0	1346.7	9911.0
GR	1315.6	9936	1308.3	9942.0	1306.7	10000.0	1309.7	10062.0	1311.0	10186.0
GR	1309.0	10238.0	1315.6	10365.0	1314.4	10688.0	1311.5	10736.0	1312.8	10936.0
GR	1315.4	10998.0	1317.3	11299.0	1313.4	11405.0	1313.3	11473.0	1316.1	11509.0
GR	1315.8	11756.0	1319.7	11971.0	1323.1	12432.0	1332.8	13315.0	1336.2	13540.0
GR	1354.6	13695.0	1355.0	13721.0	1346.2	13742.0	1346.3	13765.0	1370.4	13822.0
GR	1361.3	13854.0	1367.9	13873.0	1372.5	13951.0	1364.0	14007.0		

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ET	28.52	9.1	7.1				9956	10350	9720	11012
X1	28.52	41.0	9967	10204	360	360	360			
GR	1362.7	9720.0	1330.1	9901.0	1330.5	9940.0	1316.5	9957	1307.7	9967.0
GR	1307.1	10000.0	1310.2	10055.0	1311.0	10204.0	1309.6	10300.0	1316.5	10377.0
GR	1315.6	10695.0	1312.4	10733.0	1315.9	10869.0	1313.5	10971.0	1319.2	11012.0
GR	1319.3	11122.0	1316.0	11228.0	1318.8	11283.0	1318.6	11523.0	1316.7	11570.0
GR	1318.9	11623.0	1315.0	11701.0	1318.1	11744.0	1316.7	11993.0	1320.8	12055.0
GR	1321.4	12159.0	1332.8	13289.0	1338.6	13435.0	1330.8	13477.0	1331.4	13502.0
GR	1351.1	13573.0	1351.1	13587.0	1345.3	13602.0	1345.3	13627.0	1352.4	13643.0
GR	1340.1	13684.0	1337.0	13765.0	1340.5	13795.0	1342.1	14131.0	1347.7	14355.0
GR	1348.8	14381.0								
ET	28.58	9.1	7.1				9954	10340	9850	11141
X1	28.58	36.0	9959	10284	340	340	340			
GR	1364.0	9850.0	1358.8	9884.0	1317.7	9955.0	1309.1	9959.0	1309.0	10000.0
GR	1311.5	10097.0	1310.9	10284.0	1317.7	10393.0	1318.3	10497.0	1313.8	10806.0
GR	1316.6	10850.0	1316.2	11038.0	1319.8	11141.0	1318.1	11270.0	1320.0	11326.0
GR	1318.5	11581.0	1319.5	11767.0	1317.2	11833.0	1318.3	12037.0	1322.5	12105.0

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GR	1323.9	12672.0	1327.4	13046.0	1331.4	13073.0	1326.9	13128.0	1338.2	13235.0
GR	1352.5	13297.0	1356.9	13418.0	1361.0	13430.0	1360.6	13462.0	1347.2	13487.0
GR	1347.2	13510.0	1368.5	13544.0	1368.2	13561.0	1361.9	13579.0	1362.7	13754.0
GR	1374.3	13895.0								
ET	28.67	9.1	7.1				9950	10300	9450	11203
X1	28.67	37.0	9964	10192	470	360	460			
GR	1372.7	9450.0	1371.0	9866.0	1319.8	9950.0	1311.5	9964.0	1312.2	10000.0
GR	1312.2	10192.0	1319.8	10514.0	1316.1	10819.0	1318.6	10989.0	1315.2	11044.0
GR	1320.5	11203.0	1321.6	11445.0	1322.3	11634.0	1319.8	11968.0	1318.7	12107.0
GR	1322.5	12170.0	1321.3	12228.0	1325.2	12397.0	1326.4	12792.0	1328.9	12823.0
GR	1324.8	12860.0	1327.4	12972.0	1345.8	13057.0	1345.8	13259.0	1339.7	13321.0
GR	1341.1	13419.0	1352.8	13484.0	1356.1	13572.0	1358.7	13589.0	1358.8	13606.0
GR	1348.0	13629.0	1348.2	13655.0	1363.9	13681.0	1363.8	13698.0	1355.7	13713.0
GR	1356.7	13851.0	1373.9	13912.0						
ET	28.76	9.1	7.1				9910	10260		
X1	28.76	40.0	9920	10203	500	320	475			
GR	1375.0	9510.0	1373.4	9666.0	1367.5	9804.0	1321.2	9920.0	1312.5	9924.0
GR	1312.6	10000.0	1312.9	10109.0	1317.4	10203.0	1321.2	10547.0	1318.1	10699.0
GR	1322.5	11169.0	1317.4	11220.0	1317.7	11274.0	1321.6	11330.0	1323.8	11632.0
GR	1321.5	11931.0	1323.1	11979.0	1321.8	12102.0	1326.0	12160.0	1326.5	12548.0
GR	1325.0	12562.0	1326.6	12626.0	1330.7	13064.0	1340.8	13120.0	1347.4	13338.0
GR	1343.7	13473.0	1341.4	13577.0	1353.0	13637.0	1353.2	13660.0	1357.3	13674.0
GR	1356.5	13694.0	1347.1	13715.0	1347.1	13746.0	1358.4	13761.0	1358.4	13776.0
GR	1353.4	13790.0	1356.3	13886.0	1362.3	13913.0	1362.3	13925.0	1377.2	13966.0
ET	28.86	9.1	7.1				9912	10400	9575	12130
X1	28.86	39.0	9912	10169	550	310	515			
GR	1377.3	9575.0	1375.4	9834.0	1322.7	9912.0	1313.6	9925.0	1313.1	10000.0
GR	1321.3	10169.0	1318.7	10243.0	1319.8	10485.0	1322.7	10549.0	1321.8	10805.0
GR	1324.8	11074.0	1322.6	11285.0	1321.2	11472.0	1322.3	11649.0	1323.8	11963.0
GR	1323.5	12075.0	1327.9	12130.0	1327.9	12182.0	1322.4	12215.0	1325.8	12261.0
GR	1327.7	12491.0	1330.6	12911.0	1335.3	13273.0	1339.5	13314.0	1339.8	13413.0
GR	1343.8	13536.0	1347.4	13697.0	1348.2	13733.0	1352.8	13749.0	1352.8	13773.0

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GR	1345.3	13792.0	1345.3	13807.0	1355.5	13827.0	1355.7	13843.0	1354.0	13855.0
GR	1356.5	13951.0	1361.9	13975.0	1361.0	13989.0	1373.7	14035.0		
ET	28.95	9.1	7.1				9946	10600		
X1	28.95	34.0	9946	10353	500	310	475			
GR	1376.3	9615.0	1376.6	9784.0	1371.6	9871.0	1325.0	9946.0	1314.8	9962.0
GR	1312.3	10000.0	1317.7	10112.0	1321.6	10138.0	1324.5	10353.0	1322.2	10383.0
GR	1322.5	10551.0	1318.3	10659.0	1325.0	10702.0	1324.6	11069.0	1325.8	11366.0
GR	1324.5	11583.0	1322.1	11633.0	1324.9	11727.0	1323.6	12024.0	1329.7	12138.0
GR	1326.2	12496.0	1330.1	12888.0	1335.9	13349.0	1348.0	13760.0	1355.7	13815.0
GR	1355.7	13835.0	1345.5	13852.0	1345.5	13879.0	1354.8	13895.0	1352.9	13945.0
GR	1360.9	14104.0	1364.9	14118.0	1364.9	14138.0	1376.2	14210.0		
ET	29.04	9.1	7.1				9827	10630		
X1	29.04	34.0	9828	10239	550	330	510			
GR	1360.0	9770	1326.7	9808.0	1320.3	9815.0	1317.3	9828.0	1317.2	9859.0
GR	1319.6	9940.0	1317.2	10000.0	1317.2	10048.0	1322.9	10073.0	1324.3	10239.0
GR	1324.4	10414.0	1321.2	10499.0	1319.4	10584.0	1326.7	10638.0	1326.0	10868.0
GR	1326.7	11104.0	1325.3	11444.0	1322.9	11472.0	1324.3	11521.0	1323.1	11750.0
GR	1330.4	11802.0	1330.3	12323.0	1331.2	12554.0	1336.4	12706.0	1332.2	12882.0
GR	1335.8	13217.0	1343.9	13578.0	1351.5	13599.0	1352.4	13621.0	1344.3	13633.0
GR	1344.4	13654.0	1357.1	13668.0	1357.5	13697.0	1379.5	13780.0		
QT	2	23000	23000							
ET	29.14	9.1	7.1				9760	10520		
X1	29.14	34.0	9873	10299	560	340	500			
GR	1376.2	9370.0	1379.7	9507.0	1327.6	9591.0	1321.0	9602.0	1321.0	9646.0
GR	1325.7	9701.0	1325.3	9873.0	1320.7	9899.0	1319.4	10000.0	1319.4	10039.0
GR	1324.1	10116.0	1325.6	10299.0	1321.8	10448.0	1321.0	10467.0	1327.6	10494.0
GR	1327.8	10728.0	1326.8	10991.0	1325.8	11232.0	1324.3	11515.0	1332.2	11545.0
GR	1333.8	11964.0	1338.2	12106.0	1336.1	12544.0	1336.0	12967.0	1336.4	13189.0
GR	1333.3	13210.0	1333.4	13236.0	1349.6	13292.0	1350.1	13310.0	1345.2	13320.0
GR	1345.3	13342.0	1357.9	13361.0	1358.2	13380.0	1381.3	13441.0		
ET	29.23	9.1	7.1				9720	10455		
X1	29.23	31.0	9898	10352	515	360	475			
GR	1354.2	9400.0	1353.8	9413.0	1330.1	9512.0	1324.6	9535.0	1322.5	9679.0
GR	1328.3	9898.0	1323.3	9936.0	1321.4	10000.0	1327.0	10352.0	1326.0	10401.0
GR	1330.1	10458.0	1329.6	10683.0	1328.0	10865.0	1325.6	10966.0	1328.9	11130.0
GR	1325.0	11194.0	1323.8	11253.0	1334.6	11285.0	1335.7	11520.0	1338.6	11716.0
GR	1338.1	12080.0	1340.5	12424.0	1339.8	12782.0	1340.0	13051.0	1353.2	13073.0
GR	1353.2	13090.0	1347.8	13098.0	1347.8	13122.0	1360.6	13147.0	1360.7	13166.0
GR	1377.4	13215.0								
ET	29.30	9.1	7.1				9720	10410		
X1	29.30	30.0	9919	10440	410	360	400			
GR	1359.7	9400.0	1357.5	9491.0	1357.5	9540.0	1326.1	9549.0	1330.2	9683.0
GR	1327.3	9786.0	1326.5	9919.0	1322.3	10000.0	1326.3	10133.0	1330.9	10440.0
GR	1328.1	10578.0	1332.1	10760.0	1329.0	10885.0	1326.0	10907.0	1327.2	10987.0
GR	1338.9	11012.0	1339.1	11172.0	1341.3	11408.0	1339.7	11641.0	1342.9	12019.0
GR	1340.5	12362.0	1341.1	12795.0	1344.0	12823.0	1351.9	12840.0	1351.9	12856.0
GR	1345.7	12873.0	1345.8	12892.0	1357.7	12909.0	1358.4	12928.0	1379.4	12997.0

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ET	29.39		7.1				9693	10300		
X1	29.39	32.0	9694	10254	440	410	440			
GR	1380.0	9270.0	1365.5	9355.0	1363.3	9429.0	1331.1	9492.0	1327.7	9499.0
GR	1327.5	9552.0	1330.8	9578.0	1331.4	9694.0	1328.9	9821.0	1325.1	9838.0
GR	1324.6	10000.0	1329.3	10254.0	1331.1	10457.0	1329.9	10569.0	1326.1	10585.0
GR	1326.3	10620.0	1338.6	10654.0	1336.2	10716.0	1342.8	10892.0	1343.0	11076.0
GR	1343.4	11383.0	1343.2	11756.0	1342.9	12089.0	1344.3	12512.0	1345.0	12555.0
GR	1351.9	12570.0	1352.2	12593.0	1345.9	12600.0	1345.9	12626.0	1355.0	12644.0
GR	1356.0	12662.0	1377.4	12739.0						
ET	29.47		7.1				9660	10211		
X1	29.47	28.0	9798	10210	445	385	445			
GR	1378.6	9155.0	1362.0	9235.0	1336.0	9300.0	1331.0	9314.0	1329.0	9387.0
GR	1330.8	9438.0	1332.2	9618.0	1331.0	9798.0	1325.7	9833.0	1324.1	10000.0
GR	1333.0	10210.0	1332.5	10263.0	1329.4	10289.0	1328.3	10342.0	1336.8	10366.0
GR	1344.3	10505.0	1344.0	10747.0	1345.0	11040.0	1344.9	11416.0	1345.1	11734.0
GR	1346.9	12114.0	1351.5	12127.0	1351.7	12153.0	1345.2	12164.0	1344.9	12188.0
GR	1354.6	12205.0	1354.8	12235.0	1378.9	12335.0				
ET	29.54		7.1				9620	10151		
X1	29.54	30.0	9846	10150	380	380	380			
GR	1378.7	9025.0	1375.5	9068.0	1350.7	9135.0	1348.6	9179.0	1340.7	9198.0
GR	1332.4	9217.0	1333.5	9321.0	1333.9	9460.0	1331.2	9697.0	1328.7	9726.0
GR	1328.4	9758.0	1332.9	9782.0	1332.2	9846.0	1327.0	9882.0	1326.7	10000.0
GR	1326.7	10116.0	1340.7	10150.0	1343.0	10343.0	1346.5	10482.0	1348.3	10927.0
GR	1347.8	11457.0	1349.2	11687.0	1354.2	11697.0	1354.2	11723.0	1345.8	11737.0
GR	1345.8	11763.0	1355.3	11783.0	1355.4	11812.0	1352.6	11829.0	1378.3	11981.0
ET	29.611		7.1				9620	10110		
***** BEARDSLEY CANAL FLUME *										
***** LOW CHORD = 1347.0 ***										
X1	29.611	31.0	9791	10094	315	315	375			
X3	10									
GR	1377.8	8825.0	1353.2	9052.0	1337.2	9136.0	1336.3	9285.0	1332.4	9541.0
GR	1332.9	9713.0	1334.0	9791.0	1328.9	9812.0	1328.9	9849.0	1331.6	10000.0
GR	1331.6	10094.0	1342.3	10133.0	1351.2	10244.0	1345.5	10331.0	1349.1	10528.0
GR	1349.1	10688.0	1349.9	10923.0	1353.4	10966.0	1353.4	11037.0	1345.1	11072.0
GR	1345.1	11124.0	1352.5	11156.0	1352.5	11163.0	1345.4	11178.0	1345.5	11204.0
GR	1353.7	11221.0	1353.4	11251.0	1351.1	11259.0	1353.1	11405.0	1358.4	11533.0
GR	1378.5	11635.0								
SB	1.35	1.6	2.6	0	960	47	14933	5.5	1332	1332
ET	29.624		7.11				9620	10128		
X1	29.624	29.0	9767	10127	70	70	70			
X2	0	0	1	1347	1353.6	0	0	2	0	0
X3	10									
BT	2	9000	1355.7		10160	1353.6				
GR	1371.6	8815.0	1370.5	8845.0	1374.4	8858.0	1348.8	8902.0	1348.6	8912.0
GR	1358.8	8923.0	1351.3	9007.0	1337.7	9083.0	1335.6	9178.0	1335.4	9369.0
GR	1333.5	9493.0	1332.8	9649.0	1335.3	9767.0	1328.6	9785.0	1328.5	9823.0
GR	1331.8	10000.0	1331.8	10091.0	1348.1	10127.0	1352.1	10242.0	1352.5	10401.0
1	22MAR11	10:59:26							PAGE	119
GR	1353.2	10635.0	1349.9	10778.0	1352.7	10855.0	1352.7	10941.0	1350.2	10965.0
GR	1353.0	11161.0	1353.2	11309.0	1359.0	11392.0	1380.4	11515.0		
NC	.055	.055	.04							
ET	29.72		7.1				9560	10225		
X1	29.72	17.0	9817	10224	450	495	495			
X3	10									
GR	1367.4	8825.0	1369.8	8892.0	1339.9	8939.0	1336.9	9010.0	1338.5	9203.0
GR	1336.5	9313.0	1336.3	9454.0	1335.9	9615.0	1333.8	9657.0	1336.5	9817.0
GR	1331.3	9836.0	1331.8	9939.0	1330.5	9949.0	1330.7	10000.0	1335.7	10224.0
GR	1353.0	10253.0	1353.0	10404.0						
ET	29.80		7.1				9820	10460		
X1	29.80	16.0	9882	10205	460	460	460			
GR	1378.4	9270.0	1373.4	9347.0	1338.8	9419.0	1335.4	9475.0	1340.8	9512.0
GR	1342.7	9656.0	1338.9	9882.0	1331.2	9924.0	1331.4	10000.0	1332.7	10180.0
GR	1337.6	10205.0	1337.6	10215.0	1327.7	10335.0	1336.3	10521.0	1344.4	10610.0
GR	1349.2	10676.0								
ET	29.89		7.1				9870	10500		
X1	29.89	17.0	9900	10052	450	440	445			
GR	1371.9	9480.0	1374.2	9576.0	1339.3	9671.0	1341.6	9776.0	1341.1	9900.0
GR	1331.7	9963.0	1331.6	10000.0	1341.0	10052.0	1340.6	10085.0	1332.0	10148.0
GR	1336.2	10205.0	1336.1	10240.0	1330.0	10300.0	1329.6	10438.0	1332.9	10579.0
GR	1342.3	10699.0	1353.3	10755.0						
ET	29.99		7.1				9850	10400		
X1	29.99	17.0	9874	10115	550	500	525			
GR	1367.1	9430.0	1367.3	9523.0	1342.1	9667.0	1340.9	9749.0	1342.2	9809.0
GR	1341.2	9849.0	1346.6	9874.0	1332.9	9962.0	1332.9	10000.0	1334.8	10041.0
GR	1344.1	10115.0	1338.5	10140.0	1335.6	10414.0	1333.7	10430.0	1333.7	10470.0
GR	1346.2	10518.0	1346.4	10533.0						
ET	30.07		7.1				9780	10280		
X1	30.07	17.0	9925	10098	425	500	450			
GR	1369.4	9325.0	1363.9	9463.0	1360.9	9604.0	1341.5	9665.0	1343.1	9728.0
GR	1340.8	9781.0	1340.4	9910.0	1344.6	9925.0	1334.4	9986.0	1334.4	10000.0

Effective Model Output  
AGUAFRIA.OUT

GR	1335.0	10060.0	1344.5	10098.0	1343.6	10114.0	1336.6	10132.0	1334.0	10261.0
GR	1365.9	10306.0	1365.0	10356.0						
ET	30.17		7.1				9740	10160		
X1	30.17	15.0	9868	10092	440	570	520			
GR	1351.4	9624.0	1340.1	9663.0	1340.6	9756.0	1339.8	9868.0	1335.7	9986.0
GR	1335.6	10000.0	1335.6	10053.0	1339.3	10092.0	1336.6	10194.0	1370.4	10266.0
GR	1370.5	10414.0	1375.2	10543.0	1373.4	10597.0	1376.5	10654.0	1386.8	10733.0
ET	30.26		7.1				9748	10260		
X1	30.26	12.0	9749	10135	430	520	485			
GR	1357.2	9625.0	1361.9	9711.0	1342.1	9749.0	1338.9	10000.0	1339.3	10135.0
GR	1341.7	10314.0	1347.9	10338.0	1348.7	10444.0	1341.6	10545.0	1341.7	10604.0
GR	1363.6	10643.0	1389.4	10743.0						

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ET	30.36		7.1				9820	10280		
X1	30.36	16.0	9858	10195	500	535	515			
GR	1376.7	9395.0	1374.8	9555.0	1364.0	9638.0	1364.5	9756.0	1343.5	9796.0
GR	1341.2	9858.0	1341.2	10000.0	1342.8	10195.0	1346.2	10341.0	1351.5	10368.0
GR	1345.2	10764.0	1341.6	10776.0	1345.3	10854.0	1348.9	10876.0	1349.9	11015.0
GR	1408.9	11158.0								
ET	30.46		7.1				9814	10230		
X1	30.46	15.0	9815	10180	475	540	495			
GR	1377.3	9280.0	1380.8	9426.0	1370.4	9483.0	1366.8	9661.0	1368.2	9767.0
GR	1341.2	9815.0	1344.7	9988.0	1343.0	10000.0	1343.1	10180.0	1349.5	10253.0
GR	1352.9	10394.0	1350.2	10653.0	1345.2	10782.0	1351.2	10903.0	1405.7	11016.0
QT	2	21000	21000							
ET	30.55		7.1				9714	10139		
X1	30.55	14.0	9715	10138	500	525	500			
GR	1380.2	9365.0	1377.9	9502.0	1369.1	9590.0	1363.2	9715.0	1343.8	9751.0
GR	1343.7	10000.0	1343.4	10093.0	1353.7	10138.0	1352.6	10356.0	1354.4	10450.0
GR	1350.2	10620.0	1350.8	10718.0	1348.7	10810.0	1393.9	10939.0		
ET	30.65		7.1				9781	10116		
X1	30.65	17.0	9916	10115	535	500	530			
GR	1375.1	9605.0	1374.2	9708.0	1365.7	9756.0	1345.6	9796.0	1346.2	9916.0
GR	1343.7	10000.0	1344.5	10057.0	1354.6	10115.0	1355.0	10394.0	1353.3	10488.0
GR	1356.1	10605.0	1354.2	10776.0	1349.7	10843.0	1353.7	10925.0	1365.9	10956.0
GR	1390.6	11001.0	1388.9	11014.0						
ET	30.73		7.1				9864	10180		
X1	30.73	14.0	9881	10075	445	370	420			
GR	1369.9	9710.0	1369.1	9839.0	1345.2	9881.0	1345.6	10000.0	1345.6	10075.0
GR	1352.6	10148.0	1349.9	10202.0	1355.7	10242.0	1355.7	10397.0	1354.4	10481.0
GR	1357.6	10623.0	1356.4	10951.0	1351.7	11023.0	1394.0	11123.0		
ET	30.82		7.1				9901	10280		
X1	30.82	12.0	9924	10201	500	370	500			
GR	1378.3	9630.0	1379.5	9833.0	1375.4	9865.0	1345.2	9924.0	1346.7	10000.0
GR	1352.0	10201.0	1347.0	10358.0	1353.5	10398.0	1358.1	10582.0	1357.9	10879.0
GR	1354.5	11132.0	1399.1	11244.0						
ET	30.92		7.1				9854	10330		
X1	30.92	11.0	9871	10123	510	530	510			
GR	1383.3	9590.0	1382.2	9806.0	1348.6	9871.0	1346.0	10000.0	1353.7	10123.0
GR	1354.0	10241.0	1349.9	10555.0	1352.5	10616.0	1359.1	10642.0	1360.7	10852.0
GR	1359.8	10997.0								
ET	31.01		7.1				9727	10400		
X1	31.01	12.0	9738	10024	485	620	490			
GR	1387.5	9345.0	1380.0	9680.0	1353.3	9738.0	1349.5	9869.0	1349.5	10000.0
GR	1356.6	10024.0	1358.3	10156.0	1354.4	10429.0	1352.2	10653.0	1359.4	10668.0
GR	1364.2	10863.0	1386.4	10923.0						

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ET	31.11		7.1				9872	10570		
X1	31.11	12.0	9881	10124	480	500	490			
GR	1388.5	9585.0	1386.9	9814.0	1355.2	9881.0	1349.9	9929.0	1349.4	10000.0
GR	1357.9	10124.0	1358.7	10313.0	1352.8	10739.0	1362.3	10762.0	1361.3	10865.0
GR	1367.6	10948.0	1413.4	11050.0						
ET	31.20		7.1				9710	10390		
X1	31.20	19	9897	10062	460	525	510			
GR	1376.0	9500.0	1361.5	9580.0	1354.8	9635.0	1355.7	9713.0	1352.2	9746.0
GR	1356.3	9776.0	1356.3	9804.0	1352.6	9828.0	1357.0	9877.0	1354.9	9897.0
GR	1356.4	9953.0	1349.9	10000.0	1356.6	10062.0	1358.2	10331.0	1355.9	10511.0
GR	1364.1	10544.0	1365.2	10659.0	1410.3	10801.0	1406.2	10811.0		
ET	31.29		7.1				9570	10300		
X1	31.29	14.0	9867	10121	425	490	460			
GR	1362.3	9450.0	1356.9	9562.0	1356.3	9670.0	1363.5	9704.0	1362.8	9867.0
GR	1358.2	9931.0	1355.5	9959.0	1355.5	10000.0	1355.7	10057.0	1359.9	10121.0
GR	1359.7	10244.0	1357.8	10425.0	1367.6	10481.0	1385.4	10512.0		
ET	31.39		7.1				9550	10320		
X1	31.39	17.0	9792	10080	540	500	510			

Effective Model Output  
AGUAFRIA.OUT

GR	1397.8	9290.0	1386.7	9342.0	1392.7	9386.0	1393.4	9470.0	1356.5	9526.0
GR	1354.7	9561.0	1361.2	9643.0	1363.1	9792.0	1359.4	9942.0	1356.8	9978.0
GR	1356.9	10000.0	1357.4	10080.0	1361.5	10242.0	1360.1	10387.0	1368.0	10456.0
GR	1368.6	10528.0	1407.9	10633.0						
ET	31.49		7.1				9600	10300		
X1	31.49	13.0	9935	10295	575	520	545			
GR	1401.4	9275.0	1401.4	9364.0	1386.4	9443.0	1359.9	9480.0	1361.8	9524.0
GR	1361.5	9653.0	1363.0	9779.0	1359.5	9935.0	1359.5	10000.0	1363.8	10295.0
GR	1369.3	10330.0	1370.2	10402.0	1410.5	10504.0				
ET	31.59		7.1				9580	10176		
X1	31.59	11.0	9876	10165	505	520	510			
GR	1403.7	9175.0	1399.5	9323.0	1379.7	9425.0	1358.7	9482.0	1359.8	9608.0
GR	1364.2	9782.0	1364.2	9876.0	1360.1	10000.0	1363.2	10165.0	1389.5	10227.0
GR	1408.6	10379.0								
ET	31.67		7.1				9570	10197		
X1	31.67	12.0	9820	10185	455	445	450			
GR	1403.0	9165.0	1400.8	9363.0	1357.2	9499.0	1361.3	9631.0	1364.2	9664.0
GR	1366.0	9820.0	1361.1	10000.0	1362.8	10185.0	1388.1	10235.0	1390.8	10299.0
GR	1402.4	10478.0	1410.7	10522.0						
ET	31.77		7.1				9550	10120		
X1	31.77	12.0	9862	10101	495	510	500			
GR	1404.1	9155.0	1404.2	9371.0	1356.2	9508.0	1362.5	9560.0	1365.3	9748.0
GR	1365.3	9862.0	1363.9	10000.0	1363.0	10101.0	1389.7	10175.0	1403.9	10358.0
GR	1403.6	10416.0	1414.2	10466.0						

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ET	31.86		7.1				9680	10262		
X1	31.86	10.0	9894	10261	520	490	500			
GR	1411.1	8955.0	1408.4	9155.0	1407.3	9490.0	1362.0	9604.0	1364.9	9727.0
GR	1366.7	9894.0	1366.7	10000.0	1365.3	10261.0	1394.3	10321.0	1420.6	10419.0
QT	2	19000	19000							
ET	31.96		7.1				9730	10247		
X1	31.96	13.0	9907	10236	495	515	505			
GR	1412.2	8900.0	1412.0	9153.0	1401.6	9500.0	1367.6	9598.0	1368.9	9693.0
GR	1366.5	9758.0	1369.2	9812.0	1369.1	9907.0	1366.5	9947.0	1365.6	10000.0
GR	1364.3	10236.0	1403.4	10288.0	1421.5	10361.0				
ET	32.05		7.1				9670	10098		
X1	32.05	14.0	9843	10097	495	520	505			
GR	1414.6	8970.0	1414.1	9304.0	1400.8	9383.0	1367.6	9479.0	1372.5	9564.0
GR	1371.5	9634.0	1369.6	9736.0	1364.1	9843.0	1367.3	9954.0	1362.2	9971.0
GR	1363.3	10000.0	1370.0	10097.0	1424.6	10238.0	1423.4	10242.0		
ET	32.15		7.1				9560	10101		
X1	32.15	10.0	9792	10091	460	495	495			
GR	1417.0	9050.0	1415.5	9264.0	1373.2	9343.0	1369.6	9553.0	1373.8	9792.0
GR	1368.6	9963.0	1366.2	10000.0	1366.2	10091.0	1426.4	10163.0	1436.2	10175.0
ET	32.24		7.1				9500	10070		
X1	32.24	11.0	9738	10069	400	490	475			
GR	1418.4	9090.0	1416.8	9277.0	1371.8	9355.0	1371.9	9564.0	1374.0	9738.0
GR	1372.5	9900.0	1366.9	10000.0	1366.9	10052.0	1387.5	10069.0	1424.1	10243.0
GR	1433.7	10255.0								
NC	.045	.050	.045							
ET	32.34		7.1				9530	10060		
X1	32.34	11.0	9774	10059	490	550	540			
GR	1416.7	9225.0	1414.7	9280.0	1382.5	9377.0	1373.1	9450.0	1371.6	9614.0
GR	1375.9	9774.0	1375.4	9892.0	1368.2	10000.0	1380.6	10059.0	1382.3	10144.0
GR	1433.4	10261.0								
ET	32.43		7.1				9600	10113		
X1	32.43	14.0	9852	10112	545	400	460			
GR	1424.1	9340.0	1415.1	9438.0	1371.3	9508.0	1372.3	9554.0	1363.8	9607.0
GR	1372.6	9692.0	1375.5	9852.0	1373.4	9965.0	1370.7	10000.0	1372.7	10073.0
GR	1383.1	10112.0	1388.9	10373.0	1403.2	10437.0	1436.0	10487.0		
ET	32.52	9.1	7.1				9760	10273	9530	10288
X1	32.52	17.0	9785	10054	550	440	480			
GR	1424.4	9530.0	1419.8	9543.0	1431.9	9657.0	1372.0	9724.0	1372.4	9785.0
GR	1373.1	10000.0	1383.6	10054.0	1373.0	10123.0	1376.4	10253.0	1383.3	10288.0
GR	1383.9	10426.0	1376.8	10505.0	1377.1	10545.0	1383.8	10568.0	1388.7	10667.0
GR	1387.9	10752.0	1431.2	10840.0						

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ET	32.58	9.1	7.1				9841	10412	9675	10467
X1	32.58	19.0	9858	10111	360	295	325			
GR	1432.3	9675.0	1427.7	9750.0	1372.3	9858.0	1370.5	10000.0	1381.3	10111.0
GR	1382.2	10223.0	1401.5	10277.0	1370.6	10331.0	1372.0	10386.0	1400.7	10467.0
GR	1390.9	10528.0	1386.0	10567.0	1378.3	10610.0	1377.3	10650.0	1385.0	10685.0
GR	1385.1	10733.0	1440.1	10800.0	1429.1	10838.0	1445.9	10962.0		
ET	32.64	9.1	7.1				9873	10501	9799	10591
X1	32.64	22.0	9874	10185	335	220	310			

Effective Model Output  
AGUAFRIA.OUT

GR	1403.4	9760.0	1411.9	9799.0	1389.2	9874.0	1366.2	9905.0	1371.9	10000.0
GR	1382.2	10185.0	1388.5	10220.0	1389.6	10245.0	1414.2	10265.0	1413.5	10304.0
GR	1385.4	10402.0	1372.1	10418.0	1371.6	10483.0	1396.7	10527.0	1410.1	10591.0
GR	1410.8	10626.0	1403.7	10675.0	1380.0	10728.0	1379.6	10770.0	1388.0	10819.0
GR	1387.4	10870.0	1403.0	10883.0						
ET	32.72	9.1	7.1				9617	10453	9435	10524
X1	32.72	28.0	9879	10150	480	190	420			
GR	1434.8	9435.0	1432.6	9475.0	1394.5	9555.0	1393.9	9576.0	1380.1	9626.0
GR	1383.9	9726.0	1399.6	9817.0	1396.5	9879.0	1372.0	9942.0	1369.9	9977.0
GR	1365.7	10000.0	1364.0	10009.0	1363.8	10024.0	1383.9	10045.0	1406.8	10150.0
GR	1409.3	10188.0	1395.8	10272.0	1401.6	10321.0	1372.1	10380.0	1373.6	10439.0
GR	1397.0	10476.0	1408.2	10524.0	1404.1	10567.0	1380.2	10630.0	1379.6	10680.0
GR	1389.5	10710.0	1390.0	10780.0	1442.6	10849.0				
ET	32.79		7.1				9700	10320		
X1	32.79	19	9846	10070	400	410	380			
GR	1396.1	9575.0	1395.5	9589.0	1385.6	9639.0	1385.2	9684.0	1381.5	9725.0
GR	1386.5	9788.0	1387.9	9846.0	1372.1	9956.0	1367.2	10000.0	1367.2	10046.0
GR	1392.6	10070.0	1419.4	10140.0	1427.7	10180.0	1379.0	10254.0	1382.6	10313.0
GR	1398.6	10406.0	1404.1	10492.0	1421.2	10559.0	1430.8	10623.0		
ET	32.86		7.1				9807	10332		
X1	32.86	12.0	9928	10155	280	580	380			
GR	1423.4	9670.0	1424.3	9719.0	1386.4	9797.0	1381.2	9855.0	1380.4	9928.0
GR	1374.9	10000.0	1380.6	10079.0	1386.5	10155.0	1382.6	10239.0	1386.6	10279.0
GR	1385.4	10331.0	1421.4	10564.0						
ET	32.92	9.1	7.1				9876	10180	9680	10180
X1	32.92	9.0	9891	10143	290	370	310			
GR	1433.1	9680.0	1429.0	9769.0	1382.7	9891.0	1381.0	10000.0	1383.1	10143.0
GR	1390.8	10230.0	1387.5	10331.0	1411.9	10412.0	1427.5	10507.0		
ET	32.979		7.1				9857	10099		
X1	32.979	9.0	9933	10098	310	330	315			
GR	1432.3	9535.0	1430.2	9748.0	1384.4	9876.0	1384.7	9933.0	1379.7	10000.0
GR	1394.4	10098.0	1422.7	10157.0	1424.6	10252.0	1424.1	10335.0		
ET	32.984		7.11				9824	10082		

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\*\*\*\*\*  
\*\*\*\*\* STATE ROUTE 74 \*\*\*\*\*  
\*\*\*\*\* LOW CHORD = 1427.0 \*\*\*\*\*  
\*\*\*\*\*

X1	32.984	33	9962	10011	28	28	28			
BT	18	9750	1432.8	1427.7	9823	1432.6	1427.6	9823.1	1432.6	1391.6
BT	9833.0	1432.6	1389.7	9833.1	1432.6	1427.6	9909	1432.5	1427.4	9909.1
BT	1432.5	1385.8	9919.0	1432.5	1386.6	9919.1	1432.5	1427.4	9985	1432.3
BT	1427.3	9985.1	1432.3	1380.0	9995.0	1432.3	1380.0	9995.1	1432.3	1427.3
BT	10065	1432.2	1427.1	10065.1	1432.2	1387.9	10075.0	1432.2	1390.7	10075.1
BT	1432.2	1427.1	10150.1	1432.0	1427					
GR	1427.7	9750.0	1425.2	9750.1	1391.6	9820	1391.6	9823	1391.6	9823.1
GR	1389.7	9833	1389.7	9833.1	1389.7	9837	1385.5	9851	1384	9900
GR	1385.8	9904	1385.8	9909	1385.8	9909.1	1386.6	9919	1386.6	9919.1
GR	1386.6	9962	1380.0	9985	1380.0	9985.1	1380.0	9995	1380	9995.1
GR	1378.4	9997	1380.2	10011	1382.2	10018	1384.2	10050	1386.8	10053
GR	1387.9	10065	1387.9	10065.1	1390.7	10075	1390.7	10075.1	1392.3	10091
GR	1423.8	10149.9	1426.0	10150.0	1427.0	10150.1				
ET	32.993		7.1				9816	10093		
X1	32.993				45	45	45			
X2	0	0	0	0	0	0	1	0	0	0
ET	32.998		7.1				9842	10109		
X1	32.998	9.0	9851	10108	27	27	27			
GR	1434.1	9610.0	1433.1	9762.0	1389.0	9851.0	1386.3	9920.0	1381.4	10000.0
GR	1393.1	10108.0	1413.1	10164.0	1417.9	10358.0	1440.7	10405.0		
NC	.045	.045	.050							
ET	33.06		7.1				9729	10090		
X1	33.06	10.0	9885	10083	275	330	320			
GR	1433.2	9430.0	1434.4	9648.0	1383.1	9755.0	1386.0	9885.0	1384.0	9965.0
GR	1385.8	10000.0	1394.7	10083.0	1412.4	10166.0	1412.2	10236.0	1461.2	10364.0
ET	33.12		7.1				9600	10090		
X1	33.12	12.0	9817	10089	260	330	320			
GR	1436.1	9300.0	1435.4	9426.0	1426.7	9493.0	1384.4	9559.0	1384.2	9612.0
GR	1386.6	9690.0	1386.9	9817.0	1385.4	9947.0	1384.4	10000.0	1388.0	10089.0
GR	1422.1	10150.0	1448.5	10215.0						
ET	33.19		7.1				9440	10029		
X1	33.19	10.0	9805	10028.0	290	350	350			
GR	1437.2	9055.0	1435.6	9224.0	1387.3	9371.0	1386.4	9418.0	1389.9	9502.0
GR	1390.3	9651.0	1389.5	9805.0	1385.8	10000.0	1400.0	10028.0	1455.1	10136.0
ET	33.25	9.1	7.1				9600	10099	9700	10200
X1	33.25	14.0	9870	10098	310	320	315			
GR	1437.7	9075.0	1418.5	9151.0	1417.4	9211.0	1434.6	9275.0	1425.7	9365.0
GR	1385.6	9455.0	1390.4	9589.0	1392.2	9739.0	1391.2	9870.0	1385.2	10000.0
GR	1398.0	10098.0	1407.1	10225.0	1412.2	10344.0	1438.7	10448.0		

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Effective Model Output  
AGUAFRIA.OUT

ET	33.29	9.1	7.1				9740	10059	9750	10100
X1	33.29	14.0	9872	10058	215	250	235			
GR	1440.1	9130.0	1437.9	9172.0	1419.1	9296.0	1402.4	9445.0	1389.6	9530.0
GR	1389.7	9723.0	1393.2	9872.0	1390.5	9975.0	1380.3	10000.0	1398.2	10058.0
GR	1405.1	10189.0	1407.5	10322.0	1402.8	10386.0	1435.3	10459.0		
ET	33.30		7.1				9786	10091		
X1	33.30	13.0	9818	10090	50	50	50			
GR	1441.0	9115.0	1435.0	9249.0	1417.5	9395.0	1406.4	9506.0	1399.7	9641.0
GR	1396.2	9818.0	1387.9	9858.0	1380.4	10000.0	1399.7	10090.0	1407.2	10248.0
GR	1415.4	10343.0	1413.0	10361.0	1420.0	10450.0				
ET	33.36		7.1				9848	10327		
X1	33.36	16.0	9849	10087	230	305	305			
GR	1446.5	9535.0	1437.7	9580.0	1436.0	9678.0	1437.9	9714.0	1418.4	9849.0
GR	1381.9	9963.0	1381.9	10000.0	1381.9	10036.0	1402.2	10087.0	1396.9	10167.0
GR	1389.3	10260.0	1400.9	10353.0	1406.8	10493.0	1427.4	10566.0	1424.9	10609.0
GR	1439.9	10650.0								
ET	33.41		7.1				9943	10367		
X1	33.41	12.0	9944	10366	250	335	275			
GR	1448.1	9750.0	1426.7	9864.0	1408.3	9944.0	1386.9	10000.0	1389.1	10157.0
GR	1406.8	10366.0	1404.5	10483.0	1409.5	10576.0	1422.7	10626.0	1423.4	10668.0
GR	1433.5	10685.0	1437.7	10687.0						
QT	2	9000	9000				9880	10230	9670	10368
ET	33.46	9.1	7.1				275			
X1	33.46	15.0	9881	10186	250	355	275			
GR	1448.8	9670.0	1446.4	9707.0	1409.3	9812.0	1405.4	9881.0	1381.9	9969.0
GR	1381.9	10000.0	1381.9	10036.0	1392.5	10078.0	1397.0	10186.0	1409.6	10368.0
GR	1409.0	10422.0	1396.9	10499.0	1408.2	10645.0	1420.2	10700.0	1420.3	10726.0
ET	33.54		7.1				9851	10230		
X1	33.54	15.0	9852	10229	390	410	400			
GR	1447.6	9735.0	1406.1	9852.0	1384.4	9974.0	1384.4	10000.0	1384.4	10025.0
GR	1393.5	10087.0	1398.7	10160.0	1410.4	10229.0	1408.0	10299.0	1411.9	10394.0
GR	1409.1	10472.0	1410.8	10564.0	1427.2	10627.0	1436.0	10700.0	1439.4	10747.0
ET	33.63		7.1				9856	10141		
X1	33.63	9.0	9857	10140	525	475	510			
GR	1461.1	9715.0	1406.1	9857.0	1390.8	9961.0	1384.0	9979.0	1384.0	10000.0
GR	1404.5	10140.0	1410.0	10280.0	1417.6	10394.0	1450.8	10580.0		
ET	33.73		7.1				9803	10110		
X1	33.73	12.0	9922	10103	500	480	490			
GR	1442.7	9700.0	1397.2	9814.0	1397.6	9855.0	1409.0	9922.0	1391.0	9990.0
GR	1390.5	10000.0	1397.0	10103.0	1411.9	10246.0	1422.7	10303.0	1410.5	10352.0
GR	1426.9	10398.0	1446.2	10468.0						

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ET	33.82		7.1				9708	10069		
X1	33.82	20.0	9861	10068	500	500	500			
GR	1454.2	9465.0	1454.2	9506.0	1434.5	9527.0	1434.5	9538.0	1450.5	9565.0
GR	1408.8	9662.0	1402.1	9714.0	1409.2	9795.0	1417.1	9861.0	1387.4	9966.0
GR	1387.4	10000.0	1387.4	10023.0	1405.9	10068.0	1408.6	10117.0	1426.7	10204.0
GR	1425.4	10292.0	1433.9	10347.0	1428.1	10416.0	1427.2	10466.0	1450.9	10600.0

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SECNO	DEPTH	CWSEL	CRWS	WSELK	EG	HV	HL	OLOSS	L-BANK ELEV
Q	QLOB	QCH	QROB	ALOB	ACH	AROB	VOL	TWA	R-BANK ELEV
TIME	VLOB	VCH	VROB	XNL	XNCH	XNR	WTN	ELMIN	SSTA
SLOPE	XLOBL	XLCH	XLOBR	ITRIAL	IDC	ICONT	CORAR	TOPWID	ENDST

\*PROF 1

CRITICAL DEPTH TO BE CALCULATED AT ALL CROSS SECTIONS

CCHV= .100 CEHV= .300  
1490 NH CARD USED  
\*SECNO .160

3265 DIVIDED FLOW

AGUA FRIA DETAILED FDR PREPARED FOR THE FLOOD CONTROL DISTRICT OF MARICOPA COUNTY BY COE & VAN LOO CONSULTANTS, INC., 1996.  
THE CONTROL LINE ON THE MAIN CHANNEL OF THE AGUA FRIA RIVER IS STATION 10,000. ALL SECTIONS ARE STATIONED IN RIVER MILES FROM THE CONFLUENCE WITH THE GILA RIVER. ENCROACHMENT CARDS (ET) WERE USED IN SOME CASES TO BETTER MODEL DEAD OR NON-EFFECTIVE FLOW AREAS. CONSEQUENTLY, "SSTA" AND "ENDST" DO NOT REPRESENT THE ACTUAL FLOODING LIMITS, AND THE DELINEATION WAS ESTABLISHED BASED ON THE CROSS SECTION POINT ELEVATIONS AND THE TOPOGRAPHY. IN SOME CASES "TOPWID" DOES NOT REPRESENT THE FULL WIDTH OF THE FLOODPLAIN DUE TO NON-EFFECTIVE FLOW AREAS OR LOW ISLANDS WITHIN THE FLOODPLAIN. THE RUN WAS STARTED BASED SLOPE-AREA METHOD. THE HIGH WATER IN THE GILA RIVER WAS NOT USED TO START THE RUN, DUE TO THE DIFFERENCE IN THE TIME TO PEAK.

ENCROACHMENTS ARE PLACED ON THE UPSTREAM SECTION OF THE BRIDGES TO REPRESENT THE 1:1 CONTRACTION OF FLOW. IN ADDITION, ENCROACHMENTS ARE PLACED ON THE DOWNSTREAM SECTION OF THE BRIDGES TO REPRESENT THE 4:1 EXPANSION OF FLOW.

\*\*\*\*\*  
\*\*\*\*\* BEGIN NONSTRUCTURAL DIKES \*\*\*\*\*  
\*\*\*\*\* CONSIDERED NONEFFECTIVE \*\*\*\*\*  
\*\*\*\*\*

.160	8.26	916.56	914.69	916.39	916.97	.41	.00	.00	911.80
50900.0	11615.5	17777.7	21506.8	2595.7	2423.0	7677.7	.0	.0	923.00
.00	4.47	7.34	2.80	.045	.035	.077	.000	908.30	8341.80
.003027	0.	0.	0.	0	15	4	.00	4294.83	15428.20

FLOW DISTRIBUTION FOR SECNO= .16 CWSEL= 916.56

STA=	8342.	9494.	9620.	9720.	10167.	10477.	11042.	11265.	11500.	11664.	11830.	12628.	15428.
PER Q=	12.3	5.2	5.3	34.9	4.1	8.2	3.7	8.5	6.0	7.2	4.4	.2	
AREA=	1540.4	549.3	506.0	2423.0	767.7	1050.2	669.7	1118.5	1066.6	1196.8	1632.7	175.6	
VEL=	4.1	4.8	5.4	7.3	2.7	4.0	2.8	3.9	2.9	3.1	1.4	.5	
DEPTH=	1.3	4.4	5.1	5.6	2.5	1.9	3.0	4.8	6.5	7.2	2.0	.1	

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SECNO	DEPTH	CWSEL	CRISW	WSELK	EG	HV	HL	OLOSS	L-BANK ELEV
Q	QLOB	QCH	QROB	ALOB	ACH	AROB	VOL	TWA	R-BANK ELEV
TIME	VLOB	VCH	VROB	XNL	XNCH	XNR	WTN	ELMIN	SSTA
SLOPE	XLOBL	XLCH	XLOBR	ITRIAL	IDC	ICONT	CORAR	TOPWID	ENDST

1490 NH CARD USED  
\*SECNO .250

3265 DIVIDED FLOW

.250	7.21	918.11	916.99	.00	918.55	.44	1.57	.01	913.50
50900.0	22994.5	12802.5	15103.0	4947.6	1529.8	8238.8	153.9	56.8	922.50
.03	4.65	8.37	1.83	.047	.035	.092	.000	910.90	8257.13
.003339	505.	495.	480.	2	19	0	.00	5866.30	15619.22

FLOW DISTRIBUTION FOR SECNO= .25 CWSEL= 918.11

STA=	8257.	9109.	9486.	9620.	9958.	10230.	10650.	11054.	12126.	12846.	15619.
PER Q=	3.6	19.0	6.4	16.2	25.2	6.1	6.9	10.1	5.6	1.0	
AREA=	979.1	1793.6	617.4	1557.4	1529.8	1021.0	1609.8	3009.8	1805.5	792.7	
VEL=	1.9	5.4	5.3	5.3	8.4	3.0	2.2	1.7	1.6	.7	
DEPTH=	1.1	4.8	4.6	4.6	6.3	2.4	4.0	2.8	2.5	.3	

1490 NH CARD USED  
\*SECNO .350

3265 DIVIDED FLOW

.350	8.21	919.61	918.37	.00	919.98	.37	1.43	.01	915.10
50900.0	24010.5	13338.1	13551.4	6389.0	1673.7	9446.3	333.3	134.7	923.30
.06	3.76	7.97	1.43	.049	.035	.100	.000	911.40	7635.16
.002617	485.	485.	485.	2	10	0	.00	8121.07	15794.62

FLOW DISTRIBUTION FOR SECNO= .35 CWSEL= 919.61

STA=	7635.	8850.	9069.	9474.	9640.	9965.	10223.	11060.	12132.	13457.	15795.
PER Q=	3.2	4.8	19.6	6.4	13.1	26.2	6.8	14.5	3.6	1.7	
AREA=	1508.1	681.8	2024.4	724.3	1450.5	1673.7	2286.5	4025.2	1632.4	1502.3	
VEL=	1.1	3.6	4.9	4.5	4.6	8.0	1.5	1.8	1.1	.6	
DEPTH=	1.2	3.1	5.0	4.4	4.5	7.1	2.7	3.8	1.2	.6	

1490 NH CARD USED  
\*SECNO .440

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SECNO	DEPTH	CWSEL	CRISW	WSELK	EG	HV	HL	OLOSS	L-BANK ELEV
Q	QLOB	QCH	QROB	ALOB	ACH	AROB	VOL	TWA	R-BANK ELEV
TIME	VLOB	VCH	VROB	XNL	XNCH	XNR	WTN	ELMIN	SSTA
SLOPE	XLOBL	XLCH	XLOBR	ITRIAL	IDC	ICONT	CORAR	TOPWID	ENDST

3265 DIVIDED FLOW

.440	8.08	920.88	919.21	.00	921.15	.26	1.15	.01	916.70
50900.0	25410.1	16776.8	8713.1	6926.8	3034.8	7819.1	539.1	228.5	925.20
.10	3.67	5.53	1.11	.046	.035	.100	.000	912.80	7488.57
.001966	520.	505.	500.	2	14	0	.00	8028.40	15768.64

FLOW DISTRIBUTION FOR SECNO= .44 CWSEL= 920.88

STA=	7489.	8640.	8999.	9710.	9798.	10420.	11076.	11365.	12229.	13644.	15769.
PER Q=	8.9	16.3	22.0	2.7	33.0	5.4	3.6	3.6	3.5	1.0	

Effective Model Output  
AGUAFRIA.OUT

AREA= 1721.9 1878.8 2958.0 368.1 3034.8 1969.4 1100.1 1743.5 2027.3 978.7  
 VEL= 2.6 4.4 3.8 3.8 5.5 1.4 1.7 1.1 .9 .5  
 DEPTH= 1.5 5.2 4.2 4.2 5.0 3.0 3.8 2.0 1.4 .5

1490 NH CARD USED  
 \*SECNO .540

3265 DIVIDED FLOW

.540 8.26 921.96 920.74 .00 922.29 .33 1.12 .02 917.20  
 50900.0 26166.1 12719.0 12014.9 7098.6 1706.6 8476.8 744.5 325.8 927.50  
 .13 3.69 7.45 1.42 .047 .035 .086 .000 913.70 6959.29  
 .002408 530. 505. 495. 2 14 0 .00 8732.60 15871.39

FLOW DISTRIBUTION FOR SECNO= .54 CWSEL= 921.96

STA= 6959. 8647. 8997. 9446. 9720. 9904. 10199. 10515. 11525. 13063. 15871.  
 PER Q= 3.6 15.3 14.7 10.1 7.6 25.0 6.6 9.9 4.6 2.5  
 AREA= 1542.9 1684.5 1821.0 1193.5 856.7 1706.6 998.0 3119.5 2299.4 2059.9  
 VEL= 1.2 4.6 4.1 4.3 4.5 7.5 3.4 1.6 1.0 .6  
 DEPTH= .9 4.8 4.1 4.4 4.7 6.8 3.2 3.1 1.5 .7

1490 NH CARD USED  
 \*SECNO .630

3265 DIVIDED FLOW

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SECNO	DEPTH	CWSEL	CRISW	WSELK	EG	HV	HL	OLOSS	L-BANK ELEV
Q	QLOB	QCH	QROB	ALOB	ACH	AROB	VOL	TWA	R-BANK ELEV
TIME	VLOB	VCH	VROB	XNL	XNCH	XNR	WTN	ELMIN	SSTA
SLOPE	XLOBL	XLCH	XLOBR	ITRIAL	IDC	ICONT	CORAR	TOPWID	ENDST

3470 ENCROACHMENT STATIONS= 6600.0 16199.0 TYPE= 1 TARGET= 9599.000  
 .630 7.59 923.29 922.39 .00 923.61 .32 1.32 .00 919.60  
 50900.0 18365.2 13175.1 19359.7 5420.2 1712.6 10516.3 946.6 423.4 929.00  
 .17 3.39 7.69 1.84 .048 .035 .079 .000 915.70 7182.83  
 .002819 525. 505. 490. 2 14 0 .00 8199.52 15492.44

FLOW DISTRIBUTION FOR SECNO= .63 CWSEL= 923.29

STA= 7183. 8772. 9149. 9522. 9740. 9888. 10209. 10424. 10644. 11646. 12511. 13595. 14582.  
 PER Q= 3.3 15.4 8.2 5.0 4.2 25.9 11.1 5.1 9.7 3.9 4.0 3.3  
 AREA= 1418.2 1662.0 1132.7 683.8 523.4 1712.6 1074.9 728.3 2964.1 1632.1 1828.5 1566.2  
 VEL= 1.2 4.7 3.7 3.8 4.1 7.7 5.3 3.6 1.7 1.2 1.1 1.1  
 DEPTH= .9 4.4 3.0 3.1 3.5 6.3 5.0 3.3 3.0 1.9 1.7 1.6

STA= 14582. 15492.  
 PER Q= 1.0  
 AREA= 722.3  
 VEL= .7  
 DEPTH= .8

1490 NH CARD USED  
 \*SECNO .730

3265 DIVIDED FLOW

.730 7.77 924.67 922.98 .00 924.95 .28 1.33 .00 920.00  
 50900.0 21743.3 9996.7 19160.0 6253.3 1377.6 7546.6 1134.3 520.6 928.80  
 .20 3.48 7.26 2.54 .050 .035 .066 .000 916.90 6254.15  
 .002527 510. 500. 490. 2 14 0 .00 8818.85 15161.71

FLOW DISTRIBUTION FOR SECNO= .73 CWSEL= 924.67

STA= 6254. 8800. 8982. 9126. 9195. 9760. 9917. 10162. 10479. 10591. 10794. 11725. 15162.  
 PER Q= 3.7 4.7 8.5 3.1 16.8 5.8 19.6 18.9 6.0 3.0 7.5 2.3  
 AREA= 1665.8 632.0 817.2 336.2 2131.4 670.8 1377.6 1867.9 636.0 671.3 2581.1 1790.3  
 VEL= 1.1 3.8 5.3 4.8 4.0 4.4 7.3 5.2 4.8 2.3 1.5 .6  
 DEPTH= .7 3.5 5.7 4.9 3.8 4.3 6.3 5.9 5.7 3.3 2.8 .5

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SECNO	DEPTH	CWSEL	CRISW	WSELK	EG	HV	HL	OLOSS	L-BANK ELEV
Q	QLOB	QCH	QROB	ALOB	ACH	AROB	VOL	TWA	R-BANK ELEV
TIME	VLOB	VCH	VROB	XNL	XNCH	XNR	WTN	ELMIN	SSTA
SLOPE	XLOBL	XLCH	XLOBR	ITRIAL	IDC	ICONT	CORAR	TOPWID	ENDST

1490 NH CARD USED  
 \*SECNO .830

3265 DIVIDED FLOW

.830 8.61 925.91 924.41 .00 926.14 .24 1.19 .00 920.90

50900.0 24978.8 10152.2 15769.0 9403.3 1392.2 8379.3 1329.5 625.0 925.90  
 .25 2.66 7.29 1.88 .056 .035 .070 .000 917.30 4842.36  
 .002279 495. 495. 495. 2 11 0 .00 9559.34 14433.17

FLOW DISTRIBUTION FOR SECNO= .83 CWSSEL= 925.91

STA= 4842. 8616. 8920. 9120. 9540. 9770. 9925. 10128. 10277. 10717. 11882. 14360. 14433.  
 PER Q= 5.8 4.3 9.5 15.7 7.7 6.1 19.9 9.9 8.7 7.0 5.3 .0  
 AREA= 3612.5 1218.0 1031.2 1871.7 956.0 714.0 1392.2 988.2 1420.6 2757.9 3186.8 25.8  
 VEL= .8 1.8 4.7 4.3 4.1 4.4 7.3 5.1 3.1 1.3 .9 .4  
 DEPTH= 1.0 4.0 5.2 4.5 4.2 4.6 6.9 6.6 3.2 2.4 1.3 .4

1490 NH CARD USED  
 \*SECNO .920

3265 DIVIDED FLOW

.920 7.55 926.85 925.68 .00 927.16 .31 1.00 .02 923.30  
 50900.0 15989.1 21311.3 13599.6 5941.4 3346.5 8363.7 1516.3 714.9 930.70  
 .28 2.69 6.37 1.63 .049 .035 .080 .000 919.30 5271.86  
 .002229 445. 440. 440. 2 16 0 .00 8129.20 13964.74

FLOW DISTRIBUTION FOR SECNO= .92 CWSSEL= 926.85

STA= 5272. 8611. 9039. 9200. 9614. 10222. 10397. 10903. 12062. 13900. 13965.  
 PER Q= 4.4 6.7 6.7 13.7 41.9 4.5 6.2 9.9 6.1 .0  
 AREA= 2345.1 1134.3 742.2 1719.7 3346.5 643.9 1239.8 3402.3 3059.8 17.8  
 VEL= 1.0 3.0 4.6 4.0 6.4 3.5 2.6 1.5 1.0 .3  
 DEPTH= .7 2.7 4.6 4.2 5.7 3.7 2.5 2.9 1.7 .3

1490 NH CARD USED  
 \*SECNO 1.010

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SECNO	DEPTH	CWSSEL	CRISWS	WSELK	EG	HV	HL	OLOSS	L-BANK ELEV
Q	QLOB	QCH	QROB	ALOB	ACH	AROB	VOL	TWA	R-BANK ELEV
TIME	VLOB	VCH	VROB	XNL	XNCH	XNR	WTN	ELMIN	SSTA
SLOPE	XLOBL	XLCH	XLOBR	ITRIAL	IDC	ICONT	CORAR	TOPWID	ENDST

3265 DIVIDED FLOW

1.010 6.59 927.79 926.20 .00 928.20 .41 1.01 .03 924.90  
 50900.0 9118.7 26987.0 14794.4 2059.1 4208.7 7093.9 1673.0 775.7 931.40  
 .30 4.43 6.41 2.09 .045 .035 .071 .000 921.20 9192.46  
 .002353 440. 440. 440. 2 23 0 .00 3917.41 13197.17

FLOW DISTRIBUTION FOR SECNO= 1.01 CWSSEL= 927.79

STA= 9192. 9300. 9400. 9682. 10471. 10677. 10830. 11259. 12194. 13197.  
 PER Q= 4.7 6.6 6.6 53.0 4.6 5.0 7.3 9.1 3.1  
 AREA= 505.6 618.6 934.9 4208.7 684.1 661.9 1240.0 2910.1 1597.9  
 VEL= 4.7 5.4 3.6 6.4 3.4 3.8 3.0 1.6 1.0  
 DEPTH= 4.7 6.2 3.3 5.5 3.3 4.3 2.9 3.1 1.6

1490 NH CARD USED  
 \*SECNO 1.100

3265 DIVIDED FLOW

1.100 9.31 928.81 926.40 .00 929.13 .32 .92 .01 923.20  
 50900.0 13129.2 28426.5 9344.2 3246.2 5281.1 6206.8 1828.6 820.4 934.30  
 .33 4.04 5.38 1.51 .045 .035 .077 .000 919.50 8913.49  
 .001562 500. 490. 470. 2 8 0 .00 4213.90 13308.20

FLOW DISTRIBUTION FOR SECNO= 1.10 CWSSEL= 928.81

STA= 8913. 9267. 9325. 9660. 9719. 10678. 10913. 11128. 11660. 13150. 13308.  
 PER Q= 5.1 5.4 13.0 2.2 55.8 4.5 4.0 4.1 5.8 .0  
 AREA= 744.0 502.2 1702.9 297.1 5281.1 778.5 716.4 1642.6 3005.3 64.0  
 VEL= 3.5 5.5 3.9 3.8 5.4 2.9 2.8 1.3 1.0 .3  
 DEPTH= 2.1 8.7 5.1 5.0 5.7 3.3 3.3 3.1 2.0 .4

1490 NH CARD USED  
 \*SECNO 1.170

3265 DIVIDED FLOW

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SECNO	DEPTH	CWSSEL	CRISWS	WSELK	EG	HV	HL	OLOSS	L-BANK ELEV
Q	QLOB	QCH	QROB	ALOB	ACH	AROB	VOL	TWA	R-BANK ELEV
TIME	VLOB	VCH	VROB	XNL	XNCH	XNR	WTN	ELMIN	SSTA
SLOPE	XLOBL	XLCH	XLOBR	ITRIAL	IDC	ICONT	CORAR	TOPWID	ENDST

1.170	6.20	929.80	928.62	.00	930.23	.43	1.07	.03	927.20
50900.0	8828.5	26810.0	15261.5	2955.3	3944.6	6457.6	1996.8	873.8	933.00
.36	2.99	6.80	2.36	.045	.035	.070	.000	923.60	8149.64
.002658	560.	540.	490.	2	11	0	.00	4764.36	12948.76

FLOW DISTRIBUTION FOR SECNO= 1.17 CWSEL= 929.80

STA=	8150.	9032.	9439.	9778.	9917.	10654.	11220.	11765.	12280.	12949.
PER Q=	6.4	4.3	4.1	2.6	52.7	18.2	4.7	5.1	2.0	
AREA=	1022.5	814.3	729.1	389.3	3944.6	2312.7	1544.5	1596.9	1003.4	
VEL=	3.2	2.7	2.8	3.4	6.8	4.0	1.5	1.6	1.0	
DEPTH=	1.2	2.0	2.2	2.8	5.5	4.1	2.8	3.1	1.5	

1490 NH CARD USED  
\*SECNO 1.250

3265 DIVIDED FLOW

1.250	6.62	931.02	930.54	.00	931.89	.86	1.53	.13	929.10
50900.0	7695.4	33443.1	9761.5	2589.6	3733.7	3458.8	2125.9	920.8	933.60
.38	2.97	8.96	2.82	.045	.035	.066	.000	924.40	8456.84
.003781	480.	485.	490.	2	5	0	.00	3678.81	12152.72

FLOW DISTRIBUTION FOR SECNO= 1.25 CWSEL= 931.02

STA=	8457.	8831.	9204.	9974.	10571.	10702.	11240.	12013.	12153.
PER Q=	4.2	5.2	5.7	65.7	9.5	3.6	5.7	.4	
AREA=	693.8	793.1	1102.8	3733.7	770.5	724.4	1798.9	165.0	
VEL=	3.1	3.4	2.6	9.0	6.3	2.5	1.6	1.2	
DEPTH=	1.9	2.1	1.4	6.4	5.9	1.3	2.3	1.2	

1490 NH CARD USED  
\*SECNO 1.330

3265 DIVIDED FLOW

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\*\*\*\*\* END NONSTRUCTURAL DIKES \*\*\*\*\*  
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SECNO	DEPTH	CWSEL	CRISW	WSELK	EG	HV	HL	OLOSS	L-BANK ELEV
Q	QLOB	QCH	QROB	ALOB	ACH	AROB	VOL	TWA	R-BANK ELEV
TIME	VLOB	VCH	VROB	XNL	XNCH	XNR	WTN	ELMIN	SSTA
SLOPE	XLOBL	XLCH	XLOBR	ITRIAL	IDC	ICONT	CORAR	TOPWID	ENDST
1.330	7.45	932.95	932.04	.00	933.43	.47	1.50	.04	929.10
50900.0	19132.1	25166.6	6601.2	6708.4	3457.3	2131.1	2250.6	967.4	932.00
.41	2.85	7.28	3.10	.049	.035	.051	.000	925.50	6424.93
.002506	485.	495.	500.	2	6	0	.00	4579.95	11363.67

FLOW DISTRIBUTION FOR SECNO= 1.33 CWSEL= 932.95

STA=	6425.	8339.	8777.	9282.	9911.	10456.	10701.	11200.	11364.
PER Q=	7.3	5.9	7.8	16.5	49.4	9.1	3.6	.3	
AREA=	2184.5	1031.9	1286.7	2205.3	3457.3	1125.4	849.9	155.8	
VEL=	1.7	2.9	3.1	3.8	7.3	4.1	2.1	1.1	
DEPTH=	1.1	2.4	2.5	3.5	6.3	4.6	1.7	1.0	

\*SECNO 1.400

3265 DIVIDED FLOW

1.400	7.06	934.16	934.00	.00	935.11	.95	1.54	.14	931.60
50900.0	14177.7	31592.0	5130.3	4295.1	3314.2	1305.4	2361.0	1010.8	935.20
.43	3.30	8.53	3.93	.045	.035	.050	.000	927.10	6178.61
.004663	430.	475.	485.	2	12	0	.00	3913.30	10865.99

FLOW DISTRIBUTION FOR SECNO= 1.40 CWSEL= 934.16

STA=	6179.	6523.	6958.	7717.	8132.	8517.	8913.	9748.	10305.	10330.	10380.	10500.	10717.
PER Q=	1.7	2.2	.0	1.2	1.5	5.6	15.6	62.1	.6	2.6	2.7	3.5	
AREA=	373.2	471.3	5.0	325.4	344.9	798.8	1976.6	3314.2	67.3	235.9	338.1	502.8	
VEL=	2.4	2.4	1.9	1.9	2.2	3.6	4.0	9.5	4.2	5.7	4.0	3.6	
DEPTH=	1.1	1.1	.0	.8	.9	2.0	2.4	6.0	2.7	4.7	2.8	2.3	

STA= 10717. 10866.  
PER Q= .7  
AREA= 161.4  
VEL= 2.1  
DEPTH= 1.1

\*SECNO 1.480

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SECNO	DEPTH	CWSEL	CRISW	WSELK	EG	HV	HL	OLOSS	L-BANK ELEV
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Q	QLOB	QCH	QROB	ALOB	ACH	AROB	VOL	TWA	R-BANK ELEV
TIME	VLOB	VCH	VROB	XNL	XNCH	XNR	WTN	ELMIN	SSTA
SLOPE	XLOBL	XLCH	XLOBR	ITRIAL	IDC	ICONT	CORAR	TOPWID	ENDST

3265 DIVIDED FLOW

3301 HV CHANGED MORE THAN HVINS

3302 WARNING: CONVEYANCE CHANGE OUTSIDE OF ACCEPTABLE RANGE, KRATIO = 1.75

1.480	9.29	935.99	934.56	.00	936.37	.38	1.20	.06	932.90
50900.0	17702.1	32934.9	262.9	7370.0	5604.3	143.3	2481.6	1052.8	933.30
.46	2.40	5.88	1.83	.045	.035	.050	.000	926.70	6274.27
.001522	450.	505.	520.	2	8	0	.00	3962.32	10355.62

FLOW DISTRIBUTION FOR SECNO= 1.48 CWSEL= 935.99

STA=	6274.	6699.	7062.	7639.	8044.	8368.	8794.	9118.	9441.	10279.	10356.
PER Q=	3.4	5.7	3.4	3.2	4.0	6.0	4.1	4.9	64.7	.5	
AREA=	805.0	1086.2	836.0	806.9	839.9	1189.5	856.1	950.4	5604.3	143.3	
VEL=	2.2	2.7	2.0	2.0	2.4	2.6	2.5	2.6	5.9	1.8	
DEPTH=	1.9	3.0	1.4	2.0	2.6	2.8	2.6	2.9	6.7	1.9	

\*SECNO 1.560

3265 DIVIDED FLOW

3302 WARNING: CONVEYANCE CHANGE OUTSIDE OF ACCEPTABLE RANGE, KRATIO = 1.63

1.560	10.45	936.55	932.42	.00	936.78	.23	.40	.01	932.20
50900.0	19593.4	31306.6	.0	10442.5	6687.9	.0	2627.9	1087.4	939.00
.49	1.88	4.68	.00	.045	.035	.000	.000	926.10	6487.80
.000574	370.	495.	515.	2	14	0	.00	3645.60	10166.90

FLOW DISTRIBUTION FOR SECNO= 1.56 CWSEL= 936.55

STA=	6488.	6879.	7321.	7715.	8292.	8654.	9082.	9202.	9494.	10172.
PER Q=	4.6	3.6	5.1	7.2	3.6	5.2	3.5	5.7	61.5	
AREA=	1279.0	1157.6	1399.4	2001.8	1106.3	1470.5	695.3	1332.6	6687.9	
VEL=	1.8	1.6	1.8	1.8	1.7	1.8	2.6	2.2	4.7	
DEPTH=	3.3	2.6	3.6	3.5	3.1	3.4	5.8	4.6	9.9	

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SECNO	DEPTH	CWSEL	CRISW	WSELK	EG	HV	HL	OLOSS	L-BANK ELEV
Q	QLOB	QCH	QROB	ALOB	ACH	AROB	VOL	TWA	R-BANK ELEV
TIME	VLOB	VCH	VROB	XNL	XNCH	XNR	WTN	ELMIN	SSTA
SLOPE	XLOBL	XLCH	XLOBR	ITRIAL	IDC	ICONT	CORAR	TOPWID	ENDST

\*SECNO 1.640

3265 DIVIDED FLOW

1.640	8.92	936.82	932.62	.00	937.09	.26	.29	.01	931.30
50900.0	10176.5	40661.5	62.0	6148.4	8979.7	91.8	2792.6	1122.1	935.20
.53	1.66	4.53	.68	.045	.035	.050	.000	927.90	6727.81
.000682	380.	510.	540.	2	14	0	.00	3658.96	10424.44

FLOW DISTRIBUTION FOR SECNO= 1.64 CWSEL= 936.82

STA=	6728.	7308.	7651.	7989.	8543.	8988.	9224.	10311.	10424.
PER Q=	3.6	3.3	3.2	4.1	3.2	2.7	79.9	.1	
AREA=	1138.6	972.7	929.3	1319.9	1052.1	735.7	8979.7	91.8	
VEL=	1.6	1.7	1.7	1.6	1.5	1.9	4.5	.7	
DEPTH=	2.0	2.8	2.7	2.4	2.4	3.1	8.3	.8	

\*SECNO 1.710

3265 DIVIDED FLOW

1.710	8.97	937.17	933.72	.00	937.45	.28	.36	.01	935.80
50900.0	10127.9	40750.0	22.2	5802.1	8712.6	34.5	2944.6	1158.3	935.90
.56	1.75	4.68	.64	.045	.035	.050	.000	928.20	6281.60
.000859	370.	495.	525.	2	14	0	.00	4024.60	10338.71

FLOW DISTRIBUTION FOR SECNO= 1.71 CWSEL= 937.17

STA=	6282.	7016.	7198.	7542.	8306.	9091.	10284.	10339.
PER Q=	4.4	3.2	5.3	3.7	3.2	80.1	.0	
AREA=	1416.9	668.5	1201.3	1269.7	1245.8	8712.6	34.5	
VEL=	1.6	2.4	2.2	1.5	1.3	4.7	.6	
DEPTH=	1.9	3.7	3.5	1.7	1.6	7.3	.6	

\*SECNO 1.790

3265 DIVIDED FLOW

1.790	8.37	937.57	934.66	.00	937.99	.42	.50	.04	936.40
50900.0	5216.1	45656.6	27.4	3373.9	8308.1	33.7	3071.1	1190.1	936.30
.58	1.55	5.50	.81	.045	.035	.050	.000	929.20	6226.12
.001371	270.	500.	540.	2	14	0	.00	4010.49	10305.46

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SECNO	DEPTH	CWSEL	CRWS	WSELK	EG	HV	HL	OLOSS	L-BANK ELEV
Q	QLOB	QCH	QROB	ALOB	ACH	AROB	VOL	TWA	R-BANK ELEV
TIME	VLOB	VCH	VROB	XNL	XNCH	XNR	WTN	ELMIN	SSTA
SLOPE	XLOBL	XLCH	XLOBR	ITRIAL	IDC	ICONT	CORAR	TOPWID	ENDST

FLOW DISTRIBUTION FOR SECNO= 1.79 CWSEL= 937.57

STA=	6226.	7227.	7523.	8749.	8983.	10252.	10305.
PER Q=	3.2	3.1	3.5	.5	89.7	.1	
AREA=	1120.4	716.5	1311.1	225.9	8308.1	33.7	
VEL=	1.4	2.2	1.3	1.2	5.5	.8	
DEPTH=	1.1	2.4	1.1	1.0	6.5	.6	

\*SECNO 1.870

3265 DIVIDED FLOW

3470 ENCROACHMENT STATIONS= 6000.0 10051.0 TYPE= 1 TARGET= 4051.000

\*\*\*\*\*  
\*\*\*\*\* BEGIN WEST BANK LEVEE \*\*\*\*\*  
\*\*\*\*\*

1.870	7.41	938.21	936.02	.00	938.76	.56	.73	.04	934.40
50900.0	5014.2	45877.4	8.5	2686.5	7310.4	7.0	3170.4	1216.0	931.20
.60	1.87	6.28	1.21	.045	.035	.050	.000	930.80	6224.13
.001982	200.	475.	510.	2	14	0	.00	3779.28	10051.00

FLOW DISTRIBUTION FOR SECNO= 1.87 CWSEL= 938.21

STA=	6224.	7508.	8428.	8841.	10050.	10051.
PER Q=	5.6	3.1	1.1	90.1	.0	
AREA=	1427.3	927.9	331.3	7310.4	7.0	
VEL=	2.0	1.7	1.7	6.3	1.2	
DEPTH=	1.1	1.0	.8	6.0	7.0	

\*SECNO 1.940

3265 DIVIDED FLOW

1.940	6.95	939.25	937.28	.00	939.67	.42	.89	.01	938.20
50900.0	7608.3	43291.7	.0	3689.9	7789.9	.0	3275.3	1242.9	944.50
.63	2.06	5.56	.00	.045	.035	.000	.000	932.30	6252.38
.001749	200.	520.	540.	2	14	0	.00	3759.83	10058.70

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SECNO	DEPTH	CWSEL	CRWS	WSELK	EG	HV	HL	OLOSS	L-BANK ELEV
Q	QLOB	QCH	QROB	ALOB	ACH	AROB	VOL	TWA	R-BANK ELEV
TIME	VLOB	VCH	VROB	XNL	XNCH	XNR	WTN	ELMIN	SSTA
SLOPE	XLOBL	XLCH	XLOBR	ITRIAL	IDC	ICONT	CORAR	TOPWID	ENDST

FLOW DISTRIBUTION FOR SECNO= 1.94 CWSEL= 939.25

STA=	6252.	6964.	7592.	8375.	8655.	10063.
PER Q=	6.1	4.1	3.7	1.1	85.1	
AREA=	1408.8	933.5	996.8	350.8	7789.9	
VEL=	2.2	2.2	1.9	1.6	5.6	
DEPTH=	2.0	1.5	1.3	1.3	5.5	

\*SECNO 2.020

3265 DIVIDED FLOW

2.020	7.35	940.05	938.57	.00	940.44	.39	.77	.00	938.10
50900.0	14556.3	36343.7	.0	5359.3	6445.4	.0	3374.9	1268.8	944.80
.65	2.72	5.64	.00	.045	.035	.000	.000	932.70	6530.23
.001944	220.	470.	475.	2	12	0	.00	3496.83	10070.43

FLOW DISTRIBUTION FOR SECNO= 2.02 CWSEL= 940.05

STA=	6530.	6935.	7244.	7688.	8390.	8839.	10077.
PER Q=	8.0	6.5	3.3	6.8	4.0	71.4	
AREA=	1282.8	1022.3	738.1	1437.0	879.1	6445.4	
VEL=	3.2	3.2	2.3	2.4	2.3	5.6	

DEPTH= 3.2 3.3 1.7 2.0 2.0 5.2

\*SECNO 2.100

3265 DIVIDED FLOW

2.100	6.54	940.84	939.63	.00	941.37	.54	.89	.05	938.70
50900.0	11233.1	39666.9	.0	4004.8	6096.5	.0	3468.3	1294.7	946.70
.67	2.80	6.51	.00	.045	.035	.000	.000	934.30	6926.31
.002579	280.	440.	450.	2	19	0	.00	3200.74	10158.57

FLOW DISTRIBUTION FOR SECNO= 2.10 CWSEL= 940.84

STA=	6926.	7284.	7595.	7601.	7638.	7696.	7784.	7910.	8142.	8570.	8855.	8998.	10165.
PER Q=	2.2	5.5	.0	.0	1.6	1.8	.3	1.2	6.0	2.5	1.1	77.9	
AREA=	505.7	849.3	9.8	7.3	203.3	261.5	99.3	298.0	1022.1	508.4	240.1	6096.5	
VEL=	2.2	3.3	2.1	1.9	3.9	3.5	1.4	2.0	3.0	2.5	2.4	6.5	
DEPTH=	1.4	2.7	1.5	.2	3.5	3.0	.8	1.3	2.4	1.8	1.7	5.3	

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SECNO	DEPTH	CWSEL	CRISWS	WSELK	EG	HV	HL	OLOSS	L-BANK ELEV
Q	QLOB	QCH	QROB	ALOB	ACH	AROB	VOL	TWA	R-BANK ELEV
TIME	VLOB	VCH	VROB	XNL	XNCH	XNR	WTN	ELMIN	SSTA
SLOPE	XLOBL	XLCH	XLOBR	ITRIAL	IDC	ICONT	CORAR	TOPWID	ENDST

\*SECNO 2.180

2.180	7.35	941.75	940.48	.00	942.25	.51	.88	.00	938.30
50900.0	13050.7	37849.3	.0	4749.3	5901.3	.0	3551.6	1317.7	947.10
.69	2.75	6.41	.00	.045	.035	.000	.000	934.40	7350.13
.002170	280.	400.	420.	2	11	0	.00	3048.62	10398.75

FLOW DISTRIBUTION FOR SECNO= 2.18 CWSEL= 941.75

STA=	7350.	7376.	7879.	8327.	8469.	8769.	9030.	9391.	10405.
PER Q=	.1	4.6	4.7	2.0	4.6	3.1	6.6	74.4	
AREA=	20.3	979.3	941.8	362.6	793.1	588.4	1063.8	5901.3	
VEL=	1.3	2.4	2.5	2.9	2.9	2.6	3.2	6.4	
DEPTH=	.8	1.9	2.1	2.5	2.6	2.3	3.0	5.9	

\*SECNO 2.250

2.250	7.68	942.68	941.73	.00	943.35	.67	1.04	.05	938.30
50900.0	17880.0	33020.0	.0	5223.5	4262.6	.0	3638.5	1339.3	949.30
.71	3.42	7.75	.00	.045	.035	.000	.000	935.00	7655.51
.002860	260.	490.	510.	2	15	0	.00	2702.61	10358.12

FLOW DISTRIBUTION FOR SECNO= 2.25 CWSEL= 942.68

STA=	7656.	7676.	8187.	8478.	8490.	8646.	8690.	8963.	9280.	9684.	10366.
PER Q=	.1	6.5	4.3	.1	1.1	.9	6.2	4.5	11.5	64.9	
AREA=	23.7	1111.4	692.4	22.7	238.4	131.9	838.5	738.6	1426.0	4262.6	
VEL=	1.9	3.0	3.1	2.8	2.3	3.7	3.7	3.1	4.1	7.7	
DEPTH=	1.1	2.2	2.4	2.0	1.5	3.0	3.1	2.3	3.5	6.3	

\*SECNO 2.330

2.330	7.78	943.98	942.42	.00	944.45	.46	1.08	.02	940.30
50900.0	19857.6	31042.4	.0	5872.8	4804.7	.0	3737.9	1364.3	949.60
.74	3.38	6.46	.00	.045	.035	.000	.000	936.20	7725.70
.002050	380.	490.	490.	2	16	0	.00	2601.73	10327.43

FLOW DISTRIBUTION FOR SECNO= 2.33 CWSEL= 943.98

STA=	7726.	7809.	7839.	7935.	8402.	8650.	8698.	8937.	8955.	9281.	9549.	10339.
PER Q=	.2	.1	.8	9.0	7.0	1.2	3.8	.4	9.4	7.2	61.0	
AREA=	70.4	37.5	180.4	1439.3	965.3	171.4	653.4	60.0	1280.5	1014.6	4804.7	
VEL=	1.3	1.8	2.3	3.2	3.7	3.5	2.9	3.3	3.7	3.6	6.5	
DEPTH=	.8	1.3	1.9	3.1	3.9	3.6	2.7	3.3	3.9	3.8	6.2	

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SECNO	DEPTH	CWSEL	CRISWS	WSELK	EG	HV	HL	OLOSS	L-BANK ELEV
Q	QLOB	QCH	QROB	ALOB	ACH	AROB	VOL	TWA	R-BANK ELEV
TIME	VLOB	VCH	VROB	XNL	XNCH	XNR	WTN	ELMIN	SSTA
SLOPE	XLOBL	XLCH	XLOBR	ITRIAL	IDC	ICONT	CORAR	TOPWID	ENDST

\*SECNO 2.410

2.410	7.54	944.94	943.71	.00	945.48	.54	1.01	.02	941.60
50900.0	15513.6	32918.8	2467.6	4413.3	4772.2	781.4	3838.7	1388.0	940.60
.76	3.52	6.90	3.16	.045	.035	.050	.000	937.40	8290.50
.002498	350.	500.	500.	2	14	0	.00	2513.02	10803.51

FLOW DISTRIBUTION FOR SECNO= 2.41 CWSEL= 944.94

STA=	8290.	8424.	8908.	9149.	9517.	9736.	10550.	10633.	10800.	10804.
------	-------	-------	-------	-------	-------	-------	--------	--------	--------	--------

PER Q=	1.1	11.4	5.7	7.8	4.5	64.7	1.9	2.9	.0
AREA=	229.2	1591.5	792.8	1133.8	666.0	4772.2	283.9	491.6	5.9
VEL=	2.4	3.6	3.6	3.5	3.5	6.9	3.4	3.0	1.7
DEPTH=	1.7	3.3	3.3	3.1	3.0	5.9	3.4	2.9	1.7

```
*SECNO 2.510
 2.510      7.37   946.07   944.16      .00   946.56      .49   1.08      .01   943.90
50900.0    9445.2  41249.1   205.7    3040.8   6798.8    104.2  3951.6   1414.7   943.70
      .78     3.11     6.07     1.97     .045     .035     .050     .000     938.70   8616.18
.001913    510.     495.     345.      2        19        0        .00    2202.47  10818.65
```

FLOW DISTRIBUTION FOR SECNO= 2.51 CWSEL= 946.07

STA=	8616.	8652.	9047.	9180.	9212.	9609.	10760.	10809.	10819.
PER Q=	.2	7.7	4.0	.9	5.8	81.0	.4	.0	
AREA=	50.7	1255.2	546.1	127.1	1061.8	6798.8	96.6	7.6	
VEL=	1.8	3.1	3.7	3.6	2.8	6.1	2.0	1.1	
DEPTH=	1.4	3.2	4.1	4.0	2.7	5.9	2.0	.8	

```
*SECNO 2.600
 2.600      7.52   947.12   945.38      .00   947.59      .46   1.02      .00   944.80
50900.0    5079.1  42887.4   2933.6   1790.3   7397.8    853.8  4071.9   1444.0   943.60
      .81     2.84     5.80     3.44     .040     .035     .040     .000     939.60   8593.04
.002054    640.     505.     230.      2        15        0        .00    2550.49  11143.53
```

FLOW DISTRIBUTION FOR SECNO= 2.60 CWSEL= 947.12

STA=	8593.	8730.	9057.	9437.	10850.	11141.	11144.
PER Q=	.6	4.4	4.9	84.3	5.8	.0	
AREA=	166.1	760.5	863.6	7397.8	850.7	3.1	
VEL=	1.9	3.0	2.9	5.8	3.4	1.5	
DEPTH=	1.2	2.3	2.3	5.2	2.9	1.2	

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SECNO	DEPTH	CWSEL	CRISW	WSELK	EG	HV	HL	OLOSS	L-BANK ELEV
Q	QLOB	QCH	QROB	ALOB	ACH	AROB	VOL	TWA	R-BANK ELEV
TIME	VLOB	VCH	VROB	XNL	XNCH	XNR	WTN	ELMIN	SSTA
SLOPE	XLOBL	XLCH	XLOBR	ITRIAL	IDC	ICONT	CORAR	TOPWID	ENDST

```
*SECNO 2.700
 2.700      7.78   948.18   946.05      .00   948.51      .33   .91      .01   945.20
50900.0    4443.6  46456.4      .00   1713.8   9721.4      .0   4204.5   1478.4   955.50
      .84     2.59     4.78     .00     .040     .035     .000     .000     940.40   8550.55
.001501    790.     500.     265.      2        19        0        .00    2678.92  11229.47
```

FLOW DISTRIBUTION FOR SECNO= 2.70 CWSEL= 948.18

STA=	8551.	8597.	9107.	9268.	11238.
PER Q=	.2	6.3	2.2	91.3	
AREA=	61.9	1236.8	415.1	9721.4	
VEL=	1.7	2.6	2.7	4.8	
DEPTH=	1.3	2.4	2.6	5.0	

\*SECNO 2.800

```
*****
***** EAST BANK LEVEE *****
***** CROSS SECTIONS 2.80 & 2.89 *****
*****
 2.800      6.88   948.88   946.24      .00   949.19      .31   .68      .00   943.40
50900.0    2865.6  48034.4      .00   862.7   10562.0      .0   4334.5   1506.3   956.60
      .87     3.32     4.55     .00     .040     .035     .000     .000     942.00   8957.87
.001256    460.     500.     390.      2        11        0        .00    2250.71  11208.58
```

FLOW DISTRIBUTION FOR SECNO= 2.80 CWSEL= 948.88

STA=	8958.	9061.	9200.	11222.
PER Q=	.8	4.8	94.4	
AREA=	205.0	657.7	10562.0	
VEL=	2.1	3.7	4.5	
DEPTH=	2.0	4.7	5.3	

\*SECNO 2.890

```
*****
***** EAST BANK LEVEE *****
***** CROSS SECTIONS 2.80 & 2.89 *****
*****
 2.890      6.71   949.51   946.83      .00   949.83      .32   .63      .00   943.80
50900.0    16590.6  34309.4      .00   3645.0   7636.4      .0   4460.9   1531.0   958.00
      .90     4.55     4.49     .00     .040     .035     .000     .000     942.80   9059.70
.001365    485.     485.     415.      0        11        0        .00    2187.95  11247.66
```

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SECNO	DEPTH	CWSEL	CRISW	WSELK	EG	HV	HL	OLOSS	L-BANK ELEV
-------	-------	-------	-------	-------	----	----	----	-------	-------------

Effective Model Output  
AGUAFRIA.OUT

Q	QLOB	QCH	QROB	ALOB	ACH	AROB	VOL	TWA	R-BANK ELEV
TIME	VLOB	VCH	VROB	XNL	XNCH	XNR	WTN	ELMIN	SSTA
SLOPE	XLOBL	XLCH	XLOBR	ITRIAL	IDC	ICONT	CORAR	TOPWID	ENDST

FLOW DISTRIBUTION FOR SECNO= 2.89 CWSEL= 949.51

STA=	9060.	9073.	9143.	9349.	9383.	9673.	11261.
PER Q=	.1	3.0	13.3	1.9	14.3	67.4	
AREA=	25.0	368.0	1386.5	210.0	1655.5	7636.4	
VEL=	2.1	4.2	4.9	4.6	4.4	4.5	
DEPTH=	1.9	5.3	6.7	6.2	5.7	4.8	

*SECNO 2.990	2.990	7.85	950.15	947.07	.00	950.46	.31	.64	.00	948.60
50900.0	2040.3	48859.6	.0	857.8	10776.5	.0	4595.1	1558.1	959.00	
.93	2.38	4.53	.00	.040	.035	.000	.000	942.30	8808.48	
.001147	510.	510.	430.	1	19	0	.00	2437.41	11245.90	

FLOW DISTRIBUTION FOR SECNO= 2.99 CWSEL= 950.15

STA=	8808.	9080.	9220.	9298.	9323.	11261.
PER Q=	.2	2.2	1.4	.1	96.0	
AREA=	129.1	428.4	260.9	39.3	10776.5	
VEL=	.8	2.6	2.8	1.7	4.5	
DEPTH=	.5	3.0	3.3	1.5	5.6	

\*SECNO 3.080

3265 DIVIDED FLOW

3.080	8.19	950.69	947.04	.00	950.99	.30	.52	.00	951.40
50900.0	212.6	50687.4	.0	263.3	11531.5	.0	4730.2	1585.9	960.00
.97	.81	4.40	.00	.040	.035	.000	.000	942.50	8930.05
.000947	550.	500.	380.	2	11	0	.00	2309.63	11262.86

FLOW DISTRIBUTION FOR SECNO= 3.08 CWSEL= 950.69

STA=	8930.	9339.	9373.	11278.
PER Q=	.4	.0	99.6	
AREA=	242.8	20.5	11531.5	
VEL=	.8	.8	4.4	
DEPTH=	.6	.6	6.2	

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SECNO	DEPTH	CWSEL	CRISW	WSELK	EG	HV	HL	OLOSS	L-BANK ELEV
Q	QLOB	QCH	QROB	ALOB	ACH	AROB	VOL	TWA	R-BANK ELEV
TIME	VLOB	VCH	VROB	XNL	XNCH	XNR	WTN	ELMIN	SSTA
SLOPE	XLOBL	XLCH	XLOBR	ITRIAL	IDC	ICONT	CORAR	TOPWID	ENDST

\*SECNO 3.180

3265 DIVIDED FLOW

3.180	7.78	951.18	948.33	.00	951.62	.44	.59	.04	952.20
50900.0	35.0	50865.0	.0	63.3	9543.8	.0	4853.7	1611.5	959.20
.99	.55	5.33	.00	.040	.035	.000	.000	943.40	8874.25
.001500	680.	500.	350.	2	11	0	.00	1897.77	11199.32

FLOW DISTRIBUTION FOR SECNO= 3.18 CWSEL= 951.18

STA=	8874.	9140.	11211.
PER Q=	.1	99.9	
AREA=	63.3	9543.8	
VEL=	.6	5.3	
DEPTH=	.2	5.8	

\*SECNO 3.270

3.270	7.45	951.95	949.35	.00	952.52	.57	.86	.04	950.70
50900.0	129.9	50770.1	.0	108.9	8382.1	.0	4959.7	1632.3	960.50
1.01	1.19	6.06	.00	.040	.035	.000	.000	944.50	9518.41
.001926	575.	510.	420.	2	14	0	.00	1601.76	11120.17

FLOW DISTRIBUTION FOR SECNO= 3.27 CWSEL= 951.95

STA=	9518.	9693.	11131.
PER Q=	.3	99.7	
AREA=	108.9	8382.1	
VEL=	1.2	6.1	
DEPTH=	.6	5.9	

\*SECNO 3.370

3.370	9.48	952.88	949.91	.00	953.46	.59	.94	.01	950.90
50900.0	934.4	49965.6	.0	529.5	8060.0	.0	5060.3	1652.2	961.90
1.04	1.76	6.20	.00	.040	.035	.000	.000	943.40	9253.56
.001754	585.	510.	460.	2	11	0	.00	1698.69	10952.25

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SECNO	DEPTH	CWSEL	CRISW	WSELK	EG	HV	HL	OLOSS	L-BANK ELEV
Q	QLOB	QCH	QROB	ALOB	ACH	AROB	VOL	TWA	R-BANK ELEV
TIME	VLOB	VCH	VROB	XNL	XNCH	XNR	WTN	ELMIN	SSTA
SLOPE	XLOBL	XLCH	XLOBR	ITRIAL	IDC	ICONT	CORAR	TOPWID	ENDST

FLOW DISTRIBUTION FOR SECNO= 3.37 CWSEL= 952.88

STA= 9254. 9667. 9717. 10970.  
 PER Q= 1.3 .5 98.2  
 AREA= 429.2 100.3 8060.0  
 VEL= 1.6 2.5 6.2  
 DEPTH= 1.0 2.0 6.5

\*SECNO 3.400

3265 DIVIDED FLOW

3301 HV CHANGED MORE THAN HVINS

7185 MINIMUM SPECIFIC ENERGY  
 3720 CRITICAL DEPTH ASSUMED

\*\*\*\*\*  
 DIVIDED FLOW AT TRANSMISSION TOWER  
 \*\*\*\*\*

SECNO	DEPTH	CWSEL	CRISW	WSELK	EG	HV	HL	OLOSS	L-BANK ELEV
3.400	7.70	952.80	952.80	.00	954.74	1.94	.62	.40	952.00
50900.0	183.7	50716.3	.0	76.2	4534.1	.0	5086.8	1658.2	963.20
1.04	2.41	11.19	.00	.040	.035	.000	.000	945.10	9579.10
.010675	175.	175.	175.	0	12	0	.00	1290.49	10914.47

FLOW DISTRIBUTION FOR SECNO= 3.40 CWSEL= 952.80

STA= 9579. 9684. 9761. 10929.  
 PER Q= .1 .3 99.6  
 AREA= 26.2 50.0 4534.1  
 VEL= 1.5 2.9 11.2  
 DEPTH= .2 .6 4.1

\*SECNO 3.430

3301 HV CHANGED MORE THAN HVINS

3302 WARNING: CONVEYANCE CHANGE OUTSIDE OF ACCEPTABLE RANGE, KRATIO = 1.88

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SECNO	DEPTH	CWSEL	CRISW	WSELK	EG	HV	HL	OLOSS	L-BANK ELEV
Q	QLOB	QCH	QROB	ALOB	ACH	AROB	VOL	TWA	R-BANK ELEV
TIME	VLOB	VCH	VROB	XNL	XNCH	XNR	WTN	ELMIN	SSTA
SLOPE	XLOBL	XLCH	XLOBR	ITRIAL	IDC	ICONT	CORAR	TOPWID	ENDST

3.430	8.78	954.78	952.81	.00	955.69	.91	.85	.10	952.80
50900.0	465.5	50434.5	.0	156.5	6574.8	.0	5108.3	1662.9	963.70
1.05	2.97	7.67	.00	.040	.035	.000	.000	946.00	9665.32
.003011	165.	165.	160.	2	15	0	.00	1191.45	10856.76

FLOW DISTRIBUTION FOR SECNO= 3.43 CWSEL= 954.78

STA= 9665. 9684. 9759. 10873.  
 PER Q= .1 .9 99.1  
 AREA= 16.8 139.7 6574.8  
 VEL= 1.9 3.1 7.7  
 DEPTH= .9 1.9 6.0

\*SECNO 3.470

3.470	9.29	955.39	953.07	.00	956.25	.85	.55	.01	953.20
50900.0	1125.6	49774.4	.0	547.4	6640.7	.0	5140.2	1669.2	965.10
1.06	2.06	7.50	.00	.040	.035	.000	.000	946.10	9241.47
.002565	200.	200.	200.	3	15	0	.00	1555.91	10797.38

FLOW DISTRIBUTION FOR SECNO= 3.47 CWSEL= 955.39

STA= 9241. 9695. 9779. 10811.  
 PER Q= 1.3 .9 97.8  
 AREA= 383.3 164.1 6640.7  
 VEL= 1.7 2.9 7.5  
 DEPTH= .8 1.9 6.5

\*SECNO 3.550

3.550	8.41	956.41	954.76	.00	957.41	.99	1.12	.04	952.30
50900.0	4412.8	46487.2	.0	1317.8	5602.0	.0	5204.2	1683.3	964.00
1.07	3.35	8.30	.00	.040	.035	.000	.000	948.00	9117.53

.003147 395. 395. 395. 2 19 0 .00 1555.33 10672.86

FLOW DISTRIBUTION FOR SECNO= 3.55 CWSEL= 956.41

STA= 9118. 9751. 9814. 10685.  
PER Q= 6.3 2.3 91.3  
AREA= 1081.0 236.8 5602.0  
VEL= 3.0 5.0 8.3  
DEPTH= 1.7 3.8 6.5

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SECNO	DEPTH	CWSEL	CRIS	WSELK	EG	HV	HL	OLOSS	L-BANK ELEV
Q	QLOB	QCH	QROB	ALOB	ACH	AROB	VOL	TWA	R-BANK ELEV
TIME	VLOB	VCH	VROB	XNL	XNCH	XNR	WTN	ELMIN	SSTA
SLOPE	XLOBL	XLCH	XLOBR	ITRIAL	IDC	ICONT	CORAR	TOPWID	ENDST

\*SECNO 3.640  
3.640 9.04 957.84 956.14 .00 959.23 1.39 1.71 .12 963.20  
50900.0 .0 50900.0 .0 .0 5381.1 .0 5272.0 1696.4 965.20  
1.08 .00 9.46 .00 .000 .035 .000 .000 948.80 9765.06  
.004049 480. 480. 480. 2 15 0 .00 818.99 10584.04

FLOW DISTRIBUTION FOR SECNO= 3.64 CWSEL= 957.84

STA= 9765. 10594.  
PER Q= 100.0  
AREA= 5381.1  
VEL= 9.5  
DEPTH= 6.6

\*SECNO 3.690  
3.690 7.97 958.97 957.84 .00 960.36 1.39 1.12 .00 960.00  
50900.0 .0 50900.0 .0 .0 5382.2 .0 5301.6 1701.4 966.00  
1.09 .00 9.46 .00 .000 .035 .000 .000 951.00 9531.57  
.005471 240. 240. 240. 2 15 0 .00 1028.78 10560.35

FLOW DISTRIBUTION FOR SECNO= 3.69 CWSEL= 958.97

STA= 9532. 10575.  
PER Q= 100.0  
AREA= 5382.2  
VEL= 9.5  
DEPTH= 5.2

\*SECNO 3.729

3301 HV CHANGED MORE THAN HVINS

3302 WARNING: CONVEYANCE CHANGE OUTSIDE OF ACCEPTABLE RANGE, KRATIO = 2.44

3.729	8.32	960.52	956.09	.00	960.94	.43	.49	.10	968.00
50900.0	.0	50900.0	.0	.0	9717.0	.0	5347.6	1708.1	967.20
1.10	.00	5.24	.00	.000	.035	.000	.000	952.20	9422.37
.000919	260.	265.	270.	2	11	0	.00	1173.95	10596.32

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SECNO	DEPTH	CWSEL	CRIS	WSELK	EG	HV	HL	OLOSS	L-BANK ELEV
Q	QLOB	QCH	QROB	ALOB	ACH	AROB	VOL	TWA	R-BANK ELEV
TIME	VLOB	VCH	VROB	XNL	XNCH	XNR	WTN	ELMIN	SSTA
SLOPE	XLOBL	XLCH	XLOBR	ITRIAL	IDC	ICONT	CORAR	TOPWID	ENDST

FLOW DISTRIBUTION FOR SECNO= 3.73 CWSEL= 960.52

STA= 9422. 10603.  
PER Q= 100.0  
AREA= 9717.0  
VEL= 5.2  
DEPTH= 8.3

CCHV= .300 CEHV= .500  
\*SECNO 3.734

3370 NORMAL BRIDGE, NRD= 61 MIN ELTRD= 971.10 MAX ELLC= 967.60

\*\*\*\*\*  
\*\*\*\*\* BUCKEYE ROAD \*\*\*\*\*  
\*\*\*\*\* LOW CHORD = 967.4 \*\*\*\*\*  
\*\*\*\*\*

3.734	8.20	960.50	956.40	.00	961.02	.51	.03	.04	967.50
50900.0	.0	50900.0	.0	.0	8842.4	.0	5352.9	1708.8	967.60
1.11	.00	5.76	.00	.000	.035	.000	.000	952.30	9407.85
.001461	25.	25.	25.	2	18	0	-810.09	1184.90	10592.76

FLOW DISTRIBUTION FOR SECNO= 3.73 CWSEL= 960.50

STA= 9408. 10599.  
PER Q= 100.0  
AREA= 8842.4  
VEL= 5.8  
DEPTH= 7.5

\*SECNO 3.747

3370 NORMAL BRIDGE, NRD= 61 MIN ELTRD= 971.10 MAX ELLC= 967.60

3.747	8.32	960.62	956.40	.00	961.12	.50	.10	.00	967.50
50900.0	.0	50900.0	.0	.0	8971.6	.0	5367.2	1710.7	967.60
1.11	.00	5.67	.00	.000	.035	.000	.000	952.30	9407.74
.001397	70.	70.	70.	2	18	0	-821.96	1185.13	10592.87

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SECNO	DEPTH	CWSEL	CRISW	WSELK	EG	HV	HL	OLOSS	L-BANK ELEV
Q	QLOB	QCH	QROB	ALOB	ACH	AROB	VOL	TWA	R-BANK ELEV
TIME	VLOB	VCH	VROB	XNL	XNCH	XNR	WTN	ELMIN	SSTA
SLOPE	XLOBL	XLCH	XLOBR	ITRIAL	IDC	ICONT	CORAR	TOPWID	ENDST

FLOW DISTRIBUTION FOR SECNO= 3.75 CWSEL= 960.62

STA= 9408. 10599.  
PER Q= 100.0  
AREA= 8971.6  
VEL= 5.7  
DEPTH= 7.6

\*SECNO 3.757

3.757	8.63	960.73	956.27	.00	961.19	.46	.06	.01	966.50
50900.0	.0	50900.0	.0	.0	9360.8	.0	5377.7	1712.0	967.70
1.11	.00	5.44	.00	.000	.035	.000	.000	952.10	9436.78
.000962	50.	50.	50.	2	8	0	.00	1110.62	10547.40

FLOW DISTRIBUTION FOR SECNO= 3.76 CWSEL= 960.73

STA= 9437. 10555.  
PER Q= 100.0  
AREA= 9360.8  
VEL= 5.4  
DEPTH= 8.4

\*SECNO 3.767

3265 DIVIDED FLOW

3302 WARNING: CONVEYANCE CHANGE OUTSIDE OF ACCEPTABLE RANGE, KRATIO = .59

3370 NORMAL BRIDGE, NRD= 76 MIN ELTRD= 970.90 MAX ELLC= 970.90

\*\*\*\*\*  
\*\*\*\*\* SO. PACIFIC R.R. \*\*\*\*\*  
\*\*\*\*\* LOW CHORD = 966.1 \*\*\*\*\*  
\*\*\*\*\*

3.767	7.75	960.65	957.45	.00	961.42	.77	.08	.16	966.90
50900.0	.0	50900.0	.0	.0	7216.0	.0	5387.2	1713.3	970.90
1.11	.00	7.05	.00	.000	.035	.000	.000	952.90	9441.23
.002786	50.	50.	50.	2	15	0	-825.27	1053.57	10559.12

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SECNO	DEPTH	CWSEL	CRISW	WSELK	EG	HV	HL	OLOSS	L-BANK ELEV
Q	QLOB	QCH	QROB	ALOB	ACH	AROB	VOL	TWA	R-BANK ELEV
TIME	VLOB	VCH	VROB	XNL	XNCH	XNR	WTN	ELMIN	SSTA
SLOPE	XLOBL	XLCH	XLOBR	ITRIAL	IDC	ICONT	CORAR	TOPWID	ENDST

FLOW DISTRIBUTION FOR SECNO= 3.77 CWSEL= 960.65

STA= 9441. 10572.  
PER Q= 100.0  
AREA= 7216.0  
VEL= 7.1  
DEPTH= 6.8

\*SECNO 3.770

3265 DIVIDED FLOW

3370 NORMAL BRIDGE, NRD= 76 MIN ELTRD= 970.90 MAX ELLC= 970.90

3.770	7.82	960.72	957.45	.00	961.48	.76	.05	.00	966.90
50900.0	.0	50900.0	.0	.0	7286.1	.0	5390.6	1713.8	970.90
1.11	.00	6.99	.00	.000	.035	.000	.000	952.90	9441.07
.002707	20.	20.	20.	2	15	0	-833.30	1053.87	10559.26

FLOW DISTRIBUTION FOR SECNO= 3.77 CWSEL= 960.72

STA= 9441. 10572.  
PER Q= 100.0  
AREA= 7286.1  
VEL= 7.0  
DEPTH= 6.9

CCHV= .100 CEHV= .300  
\*SECNO 3.780

3302 WARNING: CONVEYANCE CHANGE OUTSIDE OF ACCEPTABLE RANGE, KRATIO = 1.75

3.780	8.11	961.01	957.16	.00	961.55	.55	.05	.02	968.00
52000.0	.0	52000.0	.0	.0	8753.8	.0	5397.0	1714.6	968.00
1.12	.00	5.94	.00	.000	.030	.000	.000	952.90	9453.58
.000922	35.	35.	35.	2	11	0	.00	1109.91	10563.49

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SECNO	DEPTH	CWSEL	CRISW	WSELK	EG	HV	HL	OLOSS	L-BANK ELEV
Q	QLOB	QCH	QROB	ALOB	ACH	AROB	VOL	TWA	R-BANK ELEV
TIME	VLOB	VCH	VROB	XNL	XNCH	XNR	WTN	ELMIN	SSTA
SLOPE	XLOBL	XLCH	XLOBR	ITRIAL	IDC	ICONT	CORAR	TOPWID	ENDST

FLOW DISTRIBUTION FOR SECNO= 3.78 CWSEL= 961.01

STA= 9454. 10572.  
PER Q= 100.0  
AREA= 8753.8  
VEL= 5.9  
DEPTH= 7.9

\*SECNO 3.800

3.800	8.02	961.12	957.35	.00	961.67	.55	.12	.00	967.50
52000.0	.0	52000.0	.0	.0	8717.6	.0	5422.1	1717.8	968.20
1.12	.00	5.96	.00	.000	.030	.000	.000	953.10	9450.26
.000948	125.	125.	125.	2	11	0	.00	1123.21	10573.47

FLOW DISTRIBUTION FOR SECNO= 3.80 CWSEL= 961.12

STA= 9450. 10590.  
PER Q= 100.0  
AREA= 8717.6  
VEL= 6.0  
DEPTH= 7.8

\*SECNO 3.810

3265 DIVIDED FLOW

3.810	7.80	961.10	957.79	.00	961.80	.70	.09	.04	967.50
52000.0	.0	52000.0	.0	.0	7740.3	.0	5437.2	1719.8	968.50
1.13	.00	6.72	.00	.000	.030	.000	.000	953.30	9456.07
.001258	85.	80.	75.	2	11	0	.00	1025.13	10566.47

FLOW DISTRIBUTION FOR SECNO= 3.81 CWSEL= 961.10

STA= 9456. 10596.  
PER Q= 100.0  
AREA= 7740.3  
VEL= 6.7  
DEPTH= 7.6

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SECNO	DEPTH	CWSEL	CRISW	WSELK	EG	HV	HL	OLOSS	L-BANK ELEV
Q	QLOB	QCH	QROB	ALOB	ACH	AROB	VOL	TWA	R-BANK ELEV
TIME	VLOB	VCH	VROB	XNL	XNCH	XNR	WTN	ELMIN	SSTA
SLOPE	XLOBL	XLCH	XLOBR	ITRIAL	IDC	ICONT	CORAR	TOPWID	ENDST

\*SECNO 3.830

3.830	8.61	961.41	957.43	.00	961.93	.52	.11	.02	968.00
52000.0	.0	52000.0	.0	.0	9009.5	.0	5457.4	1722.4	968.20
1.13	.00	5.77	.00	.000	.030	.000	.000	952.80	9434.55
.000863	105.	105.	105.	2	14	0	.00	1135.18	10569.73

FLOW DISTRIBUTION FOR SECNO= 3.83 CWSEL= 961.41

STA= 9435. 10577.  
PER Q= 100.0  
AREA= 9009.5  
VEL= 5.8  
DEPTH= 7.9

*SECNO 3.930										
3.930	8.34	961.84	958.22	.00	962.42	.58	.47	.02	969.10	
52000.0	.0	52000.0	.0	.0	8516.8	.0	5558.0	1735.3	970.60	
1.15	.00	6.11	.00	.000	.030	.000	.000	953.50	9453.42	
.001012	500.	500.	500.	2	11	0	.00	1112.22	10565.64	

FLOW DISTRIBUTION FOR SECNO= 3.93 CWSEL= 961.84

STA= 9453. 10577.  
PER Q= 100.0  
AREA= 8516.8  
VEL= 6.1  
DEPTH= 7.7

*SECNO 4.020										
4.020	8.46	962.36	958.33	.00	962.88	.52	.46	.01	971.50	
52000.0	.0	52000.0	.0	.0	8964.7	.0	5658.3	1748.1	970.60	
1.18	.00	5.80	.00	.000	.030	.000	.000	953.90	9452.83	
.000853	500.	500.	500.	2	11	0	.00	1112.03	10564.85	

FLOW DISTRIBUTION FOR SECNO= 4.02 CWSEL= 962.36

STA= 9453. 10577.  
PER Q= 100.0  
AREA= 8964.7  
VEL= 5.8  
DEPTH= 8.1

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SECNO	DEPTH	CWSEL	CRISW	WSELK	EG	HV	HL	OLOSS	L-BANK ELEV
Q	QLOB	QCH	QROB	ALOB	ACH	AROB	VOL	TWA	R-BANK ELEV
TIME	VLOB	VCH	VROB	XNL	XNCH	XNR	WTN	ELMIN	SSTA
SLOPE	XLOBL	XLCH	XLOBR	ITRIAL	IDC	ICONT	CORAR	TOPWID	ENDST

\*SECNO 4.040

3265 DIVIDED FLOW

4.040	7.83	962.33	959.07	.00	963.05	.72	.10	.06	972.20
52000.0	.0	52000.0	.0	.0	7639.5	.0	5677.3	1750.5	971.10
1.18	.00	6.81	.00	.000	.030	.000	.000	954.50	9461.15
.001296	100.	100.	100.	2	11	0	.00	1013.61	10572.37

FLOW DISTRIBUTION FOR SECNO= 4.04 CWSEL= 962.33

STA= 9461. 10582.  
PER Q= 100.0  
AREA= 7639.5  
VEL= 6.8  
DEPTH= 7.5

*SECNO 4.060									
4.060	7.71	962.61	959.08	.00	963.20	.59	.14	.01	973.40
52000.0	.0	52000.0	.0	.0	8413.9	.0	5699.5	1753.5	971.60
1.19	.00	6.18	.00	.000	.030	.000	.000	954.90	9454.74
.001055	120.	120.	120.	2	11	0	.00	1112.42	10567.17

FLOW DISTRIBUTION FOR SECNO= 4.06 CWSEL= 962.61

STA= 9455. 10578.  
PER Q= 100.0  
AREA= 8413.9  
VEL= 6.2  
DEPTH= 7.6

*SECNO 4.092									
4.092	7.58	962.78	959.31	.00	963.38	.60	.18	.00	973.30
52000.0	.0	52000.0	.0	.0	8360.5	.0	5732.2	1757.8	973.00
1.19	.00	6.22	.00	.000	.030	.000	.000	955.20	9454.53
.001077	170.	170.	170.	2	11	0	.00	1111.99	10566.52

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SECNO	DEPTH	CWSEL	CRISW	WSELK	EG	HV	HL	OLOSS	L-BANK ELEV
Q	QLOB	QCH	QROB	ALOB	ACH	AROB	VOL	TWA	R-BANK ELEV

Effective Model Output  
AGUAFRIA.OUT

TIME	VLOB	VCH	VROB	XNL	XNCH	XNR	WTN	ELMIN	SSTA
SLOPE	XLOBL	XLCH	XLOBR	ITRIAL	IDC	ICONT	CORAR	TOPWID	ENDST

FLOW DISTRIBUTION FOR SECNO= 4.09 CWSEL= 962.78

STA= 9455. 10578.  
PER Q= 100.0  
AREA= 8360.5  
VEL= 6.2  
DEPTH= 7.5

\*SECNO 4.094

3301 HV CHANGED MORE THAN HVINS

7185 MINIMUM SPECIFIC ENERGY

3720 CRITICAL DEPTH ASSUMED

4.094	4.11	962.61	962.61	.00	964.67	2.06	.02	.44	973.30
52000.0	.0	52000.0	.0	.0	4513.5	.0	5733.7	1758.0	973.00
1.19	.00	11.52	.00	.000	.030	.000	.000	958.50	9458.06
.008315	10.	10.	10.	0	11	0	.00	1105.60	10563.66

FLOW DISTRIBUTION FOR SECNO= 4.09 CWSEL= 962.61

STA= 9458. 10578.  
PER Q= 100.0  
AREA= 4513.5  
VEL= 11.5  
DEPTH= 4.1

\*SECNO 4.160

3301 HV CHANGED MORE THAN HVINS

3302 WARNING: CONVEYANCE CHANGE OUTSIDE OF ACCEPTABLE RANGE, KRATIO = 2.40

4.160	7.84	965.04	962.20	.00	965.75	.71	.95	.13	973.60
52000.0	.0	52000.0	.0	.0	7669.2	.0	5779.8	1766.5	974.30
1.21	.00	6.78	.00	.000	.030	.000	.000	957.20	9461.40
.001447	330.	330.	330.	2	11	0	.00	1120.20	10581.59

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SECNO	DEPTH	CWSEL	CRWS	WSELK	EG	HV	HL	OLOSS	L-BANK ELEV
Q	QLOB	QCH	QROB	ALOB	ACH	AROB	VOL	TWA	R-BANK ELEV
TIME	VLOB	VCH	VROB	XNL	XNCH	XNR	WTN	ELMIN	SSTA
SLOPE	XLOBL	XLCH	XLOBR	ITRIAL	IDC	ICONT	CORAR	TOPWID	ENDST

FLOW DISTRIBUTION FOR SECNO= 4.16 CWSEL= 965.04

STA= 9461. 10600.  
PER Q= 100.0  
AREA= 7669.2  
VEL= 6.8  
DEPTH= 6.8

\*SECNO 4.260

4.260	8.75	965.75	963.02	.00	966.50	.74	.73	.01	975.70
52000.0	.0	52000.0	.0	.0	7530.4	.0	5866.2	1779.2	974.40
1.23	.00	6.91	.00	.000	.030	.000	.000	957.00	9427.01
.001523	495.	495.	495.	3	15	0	.00	1113.03	10540.04

FLOW DISTRIBUTION FOR SECNO= 4.26 CWSEL= 965.75

STA= 9427. 10556.  
PER Q= 100.0  
AREA= 7530.4  
VEL= 6.9  
DEPTH= 6.8

\*SECNO 4.270

3265 DIVIDED FLOW

4.270	8.78	965.88	962.95	.00	966.66	.78	.15	.01	974.90
52000.0	.0	52000.0	.0	.0	7317.4	.0	5883.2	1781.6	974.40
1.23	.00	7.11	.00	.000	.030	.000	.000	957.10	9458.96
.001499	100.	100.	100.	2	14	0	.00	1016.78	10573.50

FLOW DISTRIBUTION FOR SECNO= 4.27 CWSEL= 965.88

STA= 9459. 10588.  
PER Q= 100.0  
AREA= 7317.4  
VEL= 7.1  
DEPTH= 7.2

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SECNO	DEPTH	CWSEL	CRISW	WSELK	EG	HV	HL	OLOSS	L-BANK ELEV
Q	QLOB	QCH	QROB	ALOB	ACH	AROB	VOL	TWA	R-BANK ELEV
TIME	VLOB	VCH	VROB	XNL	XNCH	XNR	WTN	ELMIN	SSTA
SLOPE	XLOBL	XLCH	XLOBR	ITRIAL	IDC	ICONT	CORAR	TOPWID	ENDST
*SECNO 4.300									
4.300	8.59	966.19	962.92	.00	966.83	.64	.15	.01	974.80
52000.0	.0	52000.0	.0	.0	8127.6	.0	5903.6	1784.4	974.90
1.24	.00	6.40	.00	.000	.030	.000	.000	957.60	9467.63
.001183	115.	115.	115.	2	14	0	.00	1113.12	10580.75

FLOW DISTRIBUTION FOR SECNO= 4.30 CWSEL= 966.19

STA= 9468. 10594.  
PER Q= 100.0  
AREA= 8127.6  
VEL= 6.4  
DEPTH= 7.3

*SECNO 4.390									
4.390	9.17	966.77	963.29	.00	967.37	.60	.54	.00	976.10
52000.0	.0	52000.0	.0	.0	8391.0	.0	5994.6	1796.7	976.20
1.26	.00	6.20	.00	.000	.030	.000	.000	957.60	9452.43
.001071	515.	480.	445.	2	14	0	.00	1119.10	10571.53

FLOW DISTRIBUTION FOR SECNO= 4.39 CWSEL= 966.77

STA= 9452. 10590.  
PER Q= 100.0  
AREA= 8391.0  
VEL= 6.2  
DEPTH= 7.5

*SECNO 4.480									
4.480	9.53	967.33	963.38	.00	967.86	.53	.48	.01	978.30
52000.0	.0	52000.0	.0	.0	8893.5	.0	6093.8	1809.6	975.70
1.28	.00	5.85	.00	.000	.030	.000	.000	957.80	9451.96
.000881	535.	500.	465.	0	14	0	.00	1118.08	10570.05

FLOW DISTRIBUTION FOR SECNO= 4.48 CWSEL= 967.33

STA= 9452. 10586.  
PER Q= 100.0  
AREA= 8893.5  
VEL= 5.8  
DEPTH= 8.0

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SECNO	DEPTH	CWSEL	CRISW	WSELK	EG	HV	HL	OLOSS	L-BANK ELEV
Q	QLOB	QCH	QROB	ALOB	ACH	AROB	VOL	TWA	R-BANK ELEV
TIME	VLOB	VCH	VROB	XNL	XNCH	XNR	WTN	ELMIN	SSTA
SLOPE	XLOBL	XLCH	XLOBR	ITRIAL	IDC	ICONT	CORAR	TOPWID	ENDST

\*SECNO 4.500

3265 DIVIDED FLOW

4.500	9.58	967.38	963.38	.00	967.98	.60	.10	.02	978.40
52000.0	.0	52000.0	.0	.0	8373.8	.0	6115.6	1812.2	975.90
1.29	.00	6.21	.00	.000	.030	.000	.000	957.80	9453.77
.000950	110.	110.	110.	2	11	0	.00	1010.03	10565.56

FLOW DISTRIBUTION FOR SECNO= 4.50 CWSEL= 967.38

STA= 9454. 10576.  
PER Q= 100.0  
AREA= 8373.8  
VEL= 6.2  
DEPTH= 8.3

*SECNO 4.520									
4.520	9.57	967.57	963.59	.00	968.10	.53	.11	.01	976.50
52000.0	.0	52000.0	.0	.0	8872.3	.0	6139.4	1815.2	976.00
1.29	.00	5.86	.00	.000	.030	.000	.000	958.00	9450.06
.000877	115.	120.	125.	2	14	0	.00	1106.92	10556.97

FLOW DISTRIBUTION FOR SECNO= 4.52 CWSEL= 967.57

STA= 9450. 10567.  
PER Q= 100.0

AREA= 8872.3  
VEL= 5.9  
DEPTH= 8.0

SECNO	DEPTH	CWSEL	CRIS	WSELK	EG	HV	HL	OLOSS	L-BANK ELEV
*SECNO 4.600									
4.600	9.85	967.95	963.87	.00	968.47	.52	.36	.00	978.90
52000.0	.0	52000.0	.0	.0	9007.8	.0	6226.6	1826.0	976.90
1.31	.00	5.77	.00	.000	.030	.000	.000	958.10	9459.72
.000838	430.	425.	420.	0	14	0	.00	1111.27	10571.00

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SECNO	DEPTH	CWSEL	CRIS	WSELK	EG	HV	HL	OLOSS	L-BANK ELEV
Q	QLOB	QCH	QROB	ALOB	ACH	AROB	VOL	TWA	R-BANK ELEV
TIME	VLOB	VCH	VROB	XNL	XNCH	XNR	WTN	ELMIN	SSTA
SLOPE	XLOBL	XLCH	XLOBR	ITRIAL	IDC	ICONT	CORAR	TOPWID	ENDST

FLOW DISTRIBUTION FOR SECNO= 4.60 CWSEL= 967.95

STA= 9460. 10581.  
PER Q= 100.0  
AREA= 9007.8  
VEL= 5.8  
DEPTH= 8.1

SECNO	DEPTH	CWSEL	CRIS	WSELK	EG	HV	HL	OLOSS	L-BANK ELEV
*SECNO 4.700									
4.700	9.26	968.36	964.68	.00	968.93	.57	.45	.02	978.40
52000.0	.0	52000.0	.0	.0	8579.6	.0	6327.5	1838.7	978.80
1.34	.00	6.06	.00	.000	.030	.000	.000	959.10	9460.50
.000983	500.	500.	500.	1	11	0	.00	1107.42	10567.92

FLOW DISTRIBUTION FOR SECNO= 4.70 CWSEL= 968.36

STA= 9460. 10579.  
PER Q= 100.0  
AREA= 8579.6  
VEL= 6.1  
DEPTH= 7.7

\*SECNO 4.754

3370 NORMAL BRIDGE, NRD= 44 MIN ELTRD= 988.10 MAX ELLC= 988.10

3495 OVERBANK AREA ASSUMED NON-EFFECTIVE, ELLEA= 988.10 ELREA= 981.20

\*\*\*\*\*  
\*\*\*\*\* VAN BUREN \*\*\*\*\*  
\*\*\*\*\* LOW CHORD = 980.6 \*\*\*\*\*  
\*\*\*\*\*

SECNO	DEPTH	CWSEL	CRIS	WSELK	EG	HV	HL	OLOSS	L-BANK ELEV
4.754	8.28	968.58	964.65	.00	969.18	.60	.24	.01	988.10
52000.0	.0	52000.0	.0	.0	8351.9	.0	6371.3	1844.5	981.20
1.35	.00	6.23	.00	.000	.030	.000	.000	960.30	9438.46
.001154	150.	225.	310.	0	26	0	-887.65	1123.93	10562.39

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SECNO	DEPTH	CWSEL	CRIS	WSELK	EG	HV	HL	OLOSS	L-BANK ELEV
Q	QLOB	QCH	QROB	ALOB	ACH	AROB	VOL	TWA	R-BANK ELEV
TIME	VLOB	VCH	VROB	XNL	XNCH	XNR	WTN	ELMIN	SSTA
SLOPE	XLOBL	XLCH	XLOBR	ITRIAL	IDC	ICONT	CORAR	TOPWID	ENDST

FLOW DISTRIBUTION FOR SECNO= 4.75 CWSEL= 968.58

STA= 9438. 10572.  
PER Q= 100.0  
AREA= 8351.9  
VEL= 6.2  
DEPTH= 7.4

\*SECNO 4.759

3370 NORMAL BRIDGE, NRD= 44 MIN ELTRD= 988.10 MAX ELLC= 988.10

3495 OVERBANK AREA ASSUMED NON-EFFECTIVE, ELLEA= 988.10 ELREA= 981.20

SECNO	DEPTH	CWSEL	CRIS	WSELK	EG	HV	HL	OLOSS	L-BANK ELEV
4.759	8.39	968.69	964.65	.00	969.27	.59	.09	.00	988.10
52000.0	.0	52000.0	.0	.0	8468.2	.0	6386.1	1846.5	981.20
1.35	.00	6.14	.00	.000	.030	.000	.000	960.30	9438.36
.001105	77.	77.	77.	2	26	0	-899.96	1124.12	10562.48

FLOW DISTRIBUTION FOR SECNO= 4.76 CWSEL= 968.69

STA= 9438. 10572.

PER Q= 100.0  
AREA= 8468.2  
VEL= 6.1  
DEPTH= 7.5

\*SECNO 4.790

3302 WARNING: CONVEYANCE CHANGE OUTSIDE OF ACCEPTABLE RANGE, KRATIO = .70

4.790	7.65	968.75	966.78	.00	969.68	.94	.31	.11	980.20
52000.0	.0	52000.0	.0	.0	6687.1	.0	6420.9	1851.6	980.80
1.36	.00	7.78	.00	.000	.030	.000	.000	961.10	9458.38
.002270	280.	200.	110.	2	19	0	.00	1115.25	10573.63

FLOW DISTRIBUTION FOR SECNO= 4.79 CWSEL= 968.75

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SECNO	DEPTH	CWSEL	CRISW	WSELK	EG	HV	HL	OLOSS	L-BANK ELEV
Q	QLOB	QCH	QROB	ALOB	ACH	AROB	VOL	TWA	R-BANK ELEV
TIME	VLOB	VCH	VROB	XNL	XNCH	XNR	WTN	ELMIN	SSTA
SLOPE	XLOBL	XLCH	XLOBR	ITRIAL	IDC	ICONT	CORAR	TOPWID	ENDST

STA= 9458. 10590.  
PER Q= 100.0  
AREA= 6687.1  
VEL= 7.8  
DEPTH= 6.0

*SECNO 4.890	4.890	8.09	969.89	967.58	.00	970.68	.79	.99	.01	982.30
	52000.0	.0	52000.0	.0	.0	7273.2	.0	6498.6	1864.3	982.00
	1.38	.00	7.15	.00	.000	.030	.000	.000	961.80	9396.01
	.001829	455.	485.	510.	2	19	0	.00	1169.84	10565.86

FLOW DISTRIBUTION FOR SECNO= 4.89 CWSEL= 969.89

STA= 9396. 10582.  
PER Q= 100.0  
AREA= 7273.2  
VEL= 7.1  
DEPTH= 6.2

*SECNO 4.980	4.980	8.08	970.88	968.06	.00	971.50	.62	.80	.02	983.50
	52000.0	.0	52000.0	.0	.0	8198.0	.0	6590.1	1878.6	985.30
	1.40	.00	6.34	.00	.000	.030	.000	.000	962.80	9362.94
	.001342	515.	515.	520.	2	14	0	.00	1250.71	10613.65

FLOW DISTRIBUTION FOR SECNO= 4.98 CWSEL= 970.88

STA= 9363. 10630.  
PER Q= 100.0  
AREA= 8198.0  
VEL= 6.3  
DEPTH= 6.6

\*SECNO 5.000

3265 DIVIDED FLOW

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SECNO	DEPTH	CWSEL	CRISW	WSELK	EG	HV	HL	OLOSS	L-BANK ELEV
Q	QLOB	QCH	QROB	ALOB	ACH	AROB	VOL	TWA	R-BANK ELEV
TIME	VLOB	VCH	VROB	XNL	XNCH	XNR	WTN	ELMIN	SSTA
SLOPE	XLOBL	XLCH	XLOBR	ITRIAL	IDC	ICONT	CORAR	TOPWID	ENDST

5.000	7.58	970.98	968.00	.00	971.63	.65	.12	.01	983.30
52000.0	.0	52000.0	.0	.0	8052.6	.0	6606.5	1881.1	985.70
1.40	.00	6.46	.00	.000	.030	.000	.000	963.40	9358.10
.001310	90.	88.	85.	2	11	0	.00	1169.86	10622.12

FLOW DISTRIBUTION FOR SECNO= 5.00 CWSEL= 970.98

STA= 9358. 10638.  
PER Q= 100.0  
AREA= 8052.6  
VEL= 6.5  
DEPTH= 6.9

*SECNO 5.020	5.020	7.00	971.10	968.63	.00	971.78	.67	.14	.01	983.20
	52000.0	.0	52000.0	.0	.0	7891.3	.0	6624.8	1883.9	985.00
	1.41	.00	6.59	.00	.000	.030	.000	.000	964.10	9355.88

.001574 100. 100. 100. 0 14 0 .00 1281.89 10637.77

FLOW DISTRIBUTION FOR SECNO= 5.02 CWSEL= 971.10

STA= 9356. 10657.  
PER Q= 100.0  
AREA= 7891.3  
VEL= 6.6  
DEPTH= 6.2

\*SECNO 5.100  
5.100 6.58 971.78 970.21 .00 972.66 .88 .82 .06 985.30  
52000.0 .0 52000.0 .0 .0 6891.1 .0 6694.4 1896.3 985.90  
1.42 .00 7.55 .00 .000 .030 .000 .000 965.20 9322.67  
.002635 405. 410. 415. 2 19 0 .00 1344.91 10667.57

FLOW DISTRIBUTION FOR SECNO= 5.10 CWSEL= 971.78

STA= 9323. 10682.  
PER Q= 100.0  
AREA= 6891.1  
VEL= 7.5  
DEPTH= 5.1

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SECNO	DEPTH	CWSEL	CRISW	WSELK	EG	HV	HL	OLOSS	L-BANK ELEV
Q	QLOB	QCH	QROB	ALOB	ACH	AROB	VOL	TWA	R-BANK ELEV
TIME	VLOB	VCH	VROB	XLN	XNCH	XNR	WTN	ELMIN	SSTA
SLOPE	XLOBL	XLCH	XLOBR	ITRIAL	IDC	ICONT	CORAR	TOPWID	ENDST
*SECNO 5.150									
5.150	5.08	972.48	971.86	.00	973.77	1.29	.98	.12	986.00
52000.0	.0	52000.0	.0	.0	5711.8	.0	6734.2	1904.9	986.00
1.43	.00	9.10	.00	.000	.030	.000	.000	967.40	9306.95
.005136	215.	275.	330.	2	19	0	.00	1388.65	10695.61

FLOW DISTRIBUTION FOR SECNO= 5.15 CWSEL= 972.48

STA= 9307. 10713.  
PER Q= 100.0  
AREA= 5711.8  
VEL= 9.1  
DEPTH= 4.1

\*SECNO 5.201  
5.201 4.81 973.91 972.62 .00 974.85 .94 1.05 .03 987.00  
52000.0 .0 52000.0 .0 .0 6680.4 .0 6772.6 1913.5 987.00  
1.44 .00 7.78 .00 .000 .030 .000 .000 969.10 9304.89  
.003061 180. 270. 360. 2 19 0 .00 1392.04 10696.92

FLOW DISTRIBUTION FOR SECNO= 5.20 CWSEL= 973.91

STA= 9305. 10713.  
PER Q= 100.0  
AREA= 6680.4  
VEL= 7.8  
DEPTH= 4.8

\*SECNO 5.203  
3301 HV CHANGED MORE THAN HVINS  
7185 MINIMUM SPECIFIC ENERGY  
3720 CRITICAL DEPTH ASSUMED

SECNO	DEPTH	CWSEL	CRISW	WSELK	EG	HV	HL	OLOSS	L-BANK ELEV
Q	QLOB	QCH	QROB	ALOB	ACH	AROB	VOL	TWA	R-BANK ELEV
TIME	VLOB	VCH	VROB	XLN	XNCH	XNR	WTN	ELMIN	SSTA
SLOPE	XLOBL	XLCH	XLOBR	ITRIAL	IDC	ICONT	CORAR	TOPWID	ENDST
5.203	3.52	973.52	973.52	.00	975.29	1.77	.05	.25	987.00
52000.0	.0	52000.0	.0	.0	4876.1	.0	6773.9	1913.8	987.00
1.44	.00	10.66	.00	.000	.030	.000	.000	970.00	9306.07
.008712	10.	10.	10.	0	15	0	.00	1389.49	10695.56

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SECNO	DEPTH	CWSEL	CRISW	WSELK	EG	HV	HL	OLOSS	L-BANK ELEV
Q	QLOB	QCH	QROB	ALOB	ACH	AROB	VOL	TWA	R-BANK ELEV
TIME	VLOB	VCH	VROB	XLN	XNCH	XNR	WTN	ELMIN	SSTA
SLOPE	XLOBL	XLCH	XLOBR	ITRIAL	IDC	ICONT	CORAR	TOPWID	ENDST
FLOW DISTRIBUTION FOR SECNO=	5.20	CWSEL=	973.52						
STA=	9306.	10713.							
PER Q=	100.0								
AREA=	4876.1								
VEL=	10.7								
DEPTH=	3.5								

\*SECNO 5.250

3301 HV CHANGED MORE THAN HVINS

3302 WARNING: CONVEYANCE CHANGE OUTSIDE OF ACCEPTABLE RANGE, KRATIO = 1.49

5.250	5.43	975.63	974.67	.00	976.73	1.10	1.38	.07	987.90
52000.0	.0	52000.0	.0	.0	6165.1	.0	6804.9	1921.6	996.10
1.45	.00	8.43	.00	.000	.030	.000	.000	970.20	9308.63
.003940	265.	245.	220.	1	11	0	.00	1377.96	10686.59

FLOW DISTRIBUTION FOR SECNO= 5.25 CWSEL= 975.63

STA= 9309. 10735.  
PER Q= 100.0  
AREA= 6165.1  
VEL= 8.4  
DEPTH= 4.5

\*SECNO 5.270

3265 DIVIDED FLOW

5.270	5.33	976.03	975.21	.00	977.31	1.28	.53	.05	987.20
52000.0	.0	52000.0	.0	.0	5734.1	.0	6822.0	1925.4	989.00
1.45	.00	9.07	.00	.000	.030	.000	.000	970.70	9329.95
.004504	125.	125.	125.	2	15	0	.00	1266.62	10659.78

FLOW DISTRIBUTION FOR SECNO= 5.27 CWSEL= 976.03

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SECNO	DEPTH	CWSEL	CRISW	WSELK	EG	HV	HL	OLOSS	L-BANK ELEV
Q	QLOB	QCH	QROB	ALOB	ACH	AROB	VOL	TWA	R-BANK ELEV
TIME	VLOB	VCH	VROB	XNL	XNCH	XNR	WTN	ELMIN	SSTA
SLOPE	XLOBL	XLCH	XLOBR	ITRIAL	IDC	ICONT	CORAR	TOPWID	ENDST

STA= 9330. 10676.  
PER Q= 100.0  
AREA= 5734.1  
VEL= 9.1  
DEPTH= 4.5

\*SECNO 5.290

3370 NORMAL BRIDGE, NRD= 82 MIN ELTRD= 994.50 MAX ELLC= 997.70

\*\*\*\*\*  
\*\*\*\* I-10 EAST BOUND \*\*\*\*  
\*\*\*\* LOW CHORD = 986.4 \*\*\*\*  
\*\*\*\*\*

5.290	5.45	976.95	975.19	.00	977.80	.85	.44	.04	986.40
52000.0	.0	52000.0	.0	.0	7030.2	.0	6840.3	1929.2	997.70
1.46	.00	7.40	.00	.000	.030	.000	.000	971.50	9267.73
.002866	115.	125.	150.	2	21	0	-479.02	1385.94	10653.67

FLOW DISTRIBUTION FOR SECNO= 5.29 CWSEL= 976.95

STA= 9268. 10672.  
PER Q= 100.0  
AREA= 7030.2  
VEL= 7.4  
DEPTH= 5.1

\*SECNO 5.305

3370 NORMAL BRIDGE, NRD= 82 MIN ELTRD= 994.50 MAX ELLC= 997.70

5.305	5.68	977.18	975.19	.00	977.96	.78	.16	.01	986.40
52000.0	.0	52000.0	.0	.0	7315.0	.0	6850.2	1931.1	997.70
1.46	.00	7.11	.00	.000	.030	.000	.000	971.50	9267.33
.002531	60.	60.	60.	1	21	0	-498.43	1386.66	10653.99

FLOW DISTRIBUTION FOR SECNO= 5.30 CWSEL= 977.18

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SECNO	DEPTH	CWSEL	CRISW	WSELK	EG	HV	HL	OLOSS	L-BANK ELEV
Q	QLOB	QCH	QROB	ALOB	ACH	AROB	VOL	TWA	R-BANK ELEV
TIME	VLOB	VCH	VROB	XNL	XNCH	XNR	WTN	ELMIN	SSTA
SLOPE	XLOBL	XLCH	XLOBR	ITRIAL	IDC	ICONT	CORAR	TOPWID	ENDST

STA= 9267. 10672.



SLOPE	XLOBL	XLCH	XLOBR	ITRIAL	IDC	ICONT	CORAR	TOPWID	ENDST
3265 DIVIDED FLOW									
3470 ENCROACHMENT STATIONS= 9320.0 10584.0 TYPE= 1 TARGET= 1264.000									
5.510	6.97	979.67	978.19	.00	980.81	1.14	.36	.10	973.40
54400.0	127.3	54272.7	.0	31.3	6321.7	.0	7031.5	1963.6	990.10
1.50	4.06	8.59	.00	.040	.030	.000	.000	972.70	9320.00
.003057	150.	150.	100.	2	15	0	.00	1138.12	10554.65

FLOW DISTRIBUTION FOR SECNO= 5.51 CWSEL= 979.67

STA= 9320. 9325. 10567.  
 PER Q= .2 99.8  
 AREA= 31.3 6321.7  
 VEL= 4.1 8.6  
 DEPTH= 6.3 5.6

\*SECNO 5.540

3470 ENCROACHMENT STATIONS= 9330.0 10562.0 TYPE= 1 TARGET= 1232.000									
5.540	7.61	980.21	978.57	.00	981.22	1.01	.40	.01	972.60
54400.0	390.0	54010.0	.0	76.1	6679.3	.0	7052.5	1967.4	988.40
1.50	5.13	8.09	.00	.040	.030	.000	.000	972.60	9330.00
.002703	130.	140.	150.	2	15	0	.00	1209.04	10539.04

FLOW DISTRIBUTION FOR SECNO= 5.54 CWSEL= 980.21

STA= 9330. 9340. 10550.  
 PER Q= .7 99.3  
 AREA= 76.1 6679.3  
 VEL= 5.1 8.1  
 DEPTH= 7.6 5.6

\*SECNO 5.650

5.650	8.73	981.63	978.75	.00	982.37	.74	1.12	.03	987.40
54400.0	.0	54400.0	.0	.0	7881.6	.0	7150.0	1982.9	993.20
1.53	.00	6.90	.00	.000	.030	.000	.000	972.90	9419.23
.001457	580.	580.	580.	2	15	0	.00	1126.80	10546.03

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SECNO	DEPTH	CWSEL	CRISW	WSELK	EG	HV	HL	OLOSS	L-BANK ELEV
Q	QLOB	QCH	QROB	ALOB	ACH	AROB	VOL	TWA	R-BANK ELEV
TIME	VLOB	VCH	VROB	XNL	XNCH	XNR	WTN	ELMIN	SSTA
SLOPE	XLOBL	XLCH	XLOBR	ITRIAL	IDC	ICONT	CORAR	TOPWID	ENDST

FLOW DISTRIBUTION FOR SECNO= 5.65 CWSEL= 981.63

STA= 9419. 10577.  
 PER Q= 100.0  
 AREA= 7881.6  
 VEL= 6.9  
 DEPTH= 7.0

\*SECNO 5.689

3370 NORMAL BRIDGE, NRD= 40 MIN ELTRD= 996.90 MAX ELLC= 996.80

\*\*\*\*\*  
 \*\*\*\*\* MCDOWELL ROAD \*\*\*\*\*  
 \*\*\*\*\* LOW CHORD = 990.8 \*\*\*\*\*  
 \*\*\*\*\*

5.689	8.22	982.07	978.18	.00	982.66	.59	.27	.01	990.80
54400.0	.0	54400.0	.0	.0	8811.9	.0	7190.2	1988.4	990.80
1.54	.00	6.17	.00	.000	.030	.000	.000	973.85	9385.82
.001135	210.	210.	210.	0	18	0	-550.40	1152.46	10538.28

FLOW DISTRIBUTION FOR SECNO= 5.69 CWSEL= 982.07

STA= 9386. 10553.  
 PER Q= 100.0  
 AREA= 8811.9  
 VEL= 6.2  
 DEPTH= 7.6

\*SECNO 5.700

3370 NORMAL BRIDGE, NRD= 40 MIN ELTRD= 996.90 MAX ELLC= 996.80

5.700	8.29	982.14	978.18	.00	982.73	.58	.07	.00	990.80
54400.0	.0	54400.0	.0	.0	8890.8	.0	7202.4	1990.0	990.80
1.54	.00	6.12	.00	.000	.030	.000	.000	973.85	9385.70
.001103	60.	60.	60.	0	18	0	-555.30	1152.70	10538.40

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SECNO	DEPTH	CWSEL	CRISW	WSELK	EG	HV	HL	OLOSS	L-BANK ELEV
Q	QLOB	QCH	QROB	ALOB	ACH	AROB	VOL	TWA	R-BANK ELEV
TIME	VLOB	VCH	VROB	XNL	XNCH	XNR	WTN	ELMIN	SSTA
SLOPE	XLOBL	XLCH	XLOBR	ITRIAL	IDC	ICONT	CORAR	TOPWID	ENDST

FLOW DISTRIBUTION FOR SECNO= 5.70 CWSEL= 982.14

STA= 9386. 10553.  
PER Q= 100.0  
AREA= 8890.8  
VEL= 6.1  
DEPTH= 7.7

*SECNO	DEPTH	CWSEL	CRISW	WSELK	EG	HV	HL	OLOSS	L-BANK ELEV
5.750	8.74	982.44	979.31	.00	983.13	.70	.37	.04	990.30
54400.0	.0	54400.0	.0	.0	8112.6	.0	7262.9	1998.1	989.20
1.55	.00	6.71	.00	.000	.030	.000	.000	973.70	9452.74
.001312	310.	310.	310.	2	19	0	.00	1119.25	10571.99

FLOW DISTRIBUTION FOR SECNO= 5.75 CWSEL= 982.44

STA= 9453. 10579.  
PER Q= 100.0  
AREA= 8112.6  
VEL= 6.7  
DEPTH= 7.2

*SECNO	DEPTH	CWSEL	CRISW	WSELK	EG	HV	HL	OLOSS	L-BANK ELEV
5.770	9.12	982.62	979.53	.00	983.33	.70	.19	.00	989.40
54400.0	.0	54400.0	.0	.0	8081.7	.0	7289.9	2001.8	991.10
1.56	.00	6.73	.00	.000	.030	.000	.000	973.50	9435.38
.001336	140.	145.	150.	1	19	0	.00	1123.63	10559.01

FLOW DISTRIBUTION FOR SECNO= 5.77 CWSEL= 982.62

STA= 9435. 10568.  
PER Q= 100.0  
AREA= 8081.7  
VEL= 6.7  
DEPTH= 7.2

\*SECNO 5.790

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SECNO	DEPTH	CWSEL	CRISW	WSELK	EG	HV	HL	OLOSS	L-BANK ELEV
Q	QLOB	QCH	QROB	ALOB	ACH	AROB	VOL	TWA	R-BANK ELEV
TIME	VLOB	VCH	VROB	XNL	XNCH	XNR	WTN	ELMIN	SSTA
SLOPE	XLOBL	XLCH	XLOBR	ITRIAL	IDC	ICONT	CORAR	TOPWID	ENDST

3265 DIVIDED FLOW

5.790	8.04	982.64	980.59	.00	983.70	1.06	.27	.11	992.30
54400.0	.0	54400.0	.0	.0	6574.2	.0	7316.0	2005.6	990.20
1.56	.00	8.27	.00	.000	.030	.000	.000	974.60	9443.50
.002340	150.	155.	160.	2	14	0	.00	1015.97	10557.55

FLOW DISTRIBUTION FOR SECNO= 5.79 CWSEL= 982.64

STA= 9443. 10567.  
PER Q= 100.0  
AREA= 6574.2  
VEL= 8.3  
DEPTH= 6.5

*SECNO	DEPTH	CWSEL	CRISW	WSELK	EG	HV	HL	OLOSS	L-BANK ELEV
5.810	8.69	983.29	980.19	.00	984.00	.71	.26	.04	990.80
54400.0	.0	54400.0	.0	.0	8071.5	.0	7341.2	2009.3	991.00
1.57	.00	6.74	.00	.000	.030	.000	.000	974.60	9449.75
.001325	160.	150.	140.	2	19	0	.00	1110.69	10560.44

FLOW DISTRIBUTION FOR SECNO= 5.81 CWSEL= 983.29

STA= 9450. 10570.  
PER Q= 100.0  
AREA= 8071.5  
VEL= 6.7  
DEPTH= 7.3

*SECNO	DEPTH	CWSEL	CRISW	WSELK	EG	HV	HL	OLOSS	L-BANK ELEV
5.900	8.56	983.96	981.21	.00	984.73	.77	.72	.02	993.00
54400.0	.0	54400.0	.0	.0	7700.7	.0	7431.7	2022.0	991.10

1.59	.00	7.06	.00	.000	.030	.000	.000	975.40	9439.50
.001551	495.	500.	500.	2	14	0	.00	1112.51	10552.01

FLOW DISTRIBUTION FOR SECNO= 5.90 CWSEL= 983.96

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SECNO	DEPTH	CWSEL	CRISW	WSELK	EG	HV	HL	OLOSS	L-BANK ELEV
Q	QLOB	QCH	QROB	ALOB	ACH	AROB	VOL	TWA	R-BANK ELEV
TIME	VLOB	VCH	VROB	XNL	XNCH	XNR	WTN	ELMIN	SSTA
SLOPE	XLOBL	XLCH	XLOBR	ITRIAL	IDC	ICONT	CORAR	TOPWID	ENDST

STA= 9439. 10561.  
PER Q= 100.0  
AREA= 7700.7  
VEL= 7.1  
DEPTH= 6.9

*SECNO 5.990									
5.990	9.23	984.73	981.95	.00	985.51	.78	.77	.00	992.50
54400.0	.0	54400.0	.0	.0	7700.1	.0	7520.1	2034.8	993.20
1.61	.00	7.06	.00	.000	.030	.000	.000	975.50	9439.35
.001545	515.	500.	485.	2	19	0	.00	1109.63	10548.99

FLOW DISTRIBUTION FOR SECNO= 5.99 CWSEL= 984.73

STA= 9439. 10561.  
PER Q= 100.0  
AREA= 7700.1  
VEL= 7.1  
DEPTH= 6.9

*SECNO 6.070									
6.070	8.68	985.38	982.47	.00	986.13	.75	.61	.00	992.70
54400.0	.0	54400.0	.0	.0	7853.0	.0	7593.3	2045.3	992.40
1.63	.00	6.93	.00	.000	.030	.000	.000	976.70	9424.20
.001452	400.	410.	420.	1	14	0	.00	1112.14	10536.34

FLOW DISTRIBUTION FOR SECNO= 6.07 CWSEL= 985.38

STA= 9424. 10545.  
PER Q= 100.0  
AREA= 7853.0  
VEL= 6.9  
DEPTH= 7.1

*SECNO 6.160									
6.160	7.01	986.11	983.45	.00	986.90	.79	.76	.01	994.00
54400.0	.0	54400.0	.0	.0	7628.8	.0	7682.1	2058.0	993.20
1.64	.00	7.13	.00	.000	.030	.000	.000	979.10	9428.99
.001605	500.	500.	500.	1	8	0	.00	1114.84	10543.83

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SECNO	DEPTH	CWSEL	CRISW	WSELK	EG	HV	HL	OLOSS	L-BANK ELEV
Q	QLOB	QCH	QROB	ALOB	ACH	AROB	VOL	TWA	R-BANK ELEV
TIME	VLOB	VCH	VROB	XNL	XNCH	XNR	WTN	ELMIN	SSTA
SLOPE	XLOBL	XLCH	XLOBR	ITRIAL	IDC	ICONT	CORAR	TOPWID	ENDST

FLOW DISTRIBUTION FOR SECNO= 6.16 CWSEL= 986.11

STA= 9429. 10553.  
PER Q= 100.0  
AREA= 7628.8  
VEL= 7.1  
DEPTH= 6.8

*SECNO 6.260									
6.260	6.73	986.93	985.00	.00	987.92	.99	.96	.06	994.10
54400.0	.0	54400.0	.0	.0	6805.7	.0	7765.0	2070.8	993.30
1.66	.00	7.99	.00	.000	.030	.000	.000	980.20	9435.08
.002347	510.	500.	495.	2	19	0	.00	1115.70	10550.78

FLOW DISTRIBUTION FOR SECNO= 6.26 CWSEL= 986.93

STA= 9435. 10559.  
PER Q= 100.0  
AREA= 6805.7  
VEL= 8.0  
DEPTH= 6.1

*SECNO 6.350									
6.350	7.60	988.10	985.86	.00	989.02	.92	1.09	.01	996.30
54400.0	.0	54400.0	.0	.0	7056.9	.0	7844.5	2083.5	996.30

1.68	.00	7.71	.00	.000	.030	.000	.000	980.50	9455.46
.002032	525.	500.	475.	2	15	0	.00	1094.92	10550.39

FLOW DISTRIBUTION FOR SECNO= 6.35 CWSEL= 988.10

STA= 9455. 10560.  
PER Q= 100.0  
AREA= 7056.9  
VEL= 7.7  
DEPTH= 6.4

*SECNO 6.430									
6.430	8.00	989.00	987.47	.00	990.20	1.20	1.09	.08	996.50
54400.0	.0	54400.0	.0	.0	6187.8	.0	7912.2	2094.6	996.10
1.69	.00	8.79	.00	.000	.030	.000	.000	981.00	9461.07
.003037	510.	445.	380.	2	15	0	.00	1066.53	10527.60

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SECNO	DEPTH	CWSEL	CRISW	WSELK	EG	HV	HL	OLOSS	L-BANK ELEV
Q	QLOB	QCH	QROB	ALOB	ACH	AROB	VOL	TWA	R-BANK ELEV
TIME	VLOB	VCH	VROB	XLN	XLNCH	XNR	WTN	ELMIN	SSTA
SLOPE	XLOBL	XLCH	XLOBR	ITRIAL	IDC	ICONT	CORAR	TOPWID	ENDST

FLOW DISTRIBUTION FOR SECNO= 6.43 CWSEL= 989.00

STA= 9461. 10537.  
PER Q= 100.0  
AREA= 6187.8  
VEL= 8.8  
DEPTH= 5.8

\*SECNO 6.520

3301 HV CHANGED MORE THAN HVINS

3302 WARNING: CONVEYANCE CHANGE OUTSIDE OF ACCEPTABLE RANGE, KRATIO = 1.56

6.520	8.88	990.38	987.11	.00	991.06	.69	.81	.05	997.60
54400.0	.0	54400.0	.0	.0	8177.3	.0	7984.7	2105.5	997.60
1.71	.00	6.65	.00	.000	.030	.000	.000	981.50	9469.62
.001245	510.	440.	370.	2	19	0	.00	1095.24	10564.86

FLOW DISTRIBUTION FOR SECNO= 6.52 CWSEL= 990.38

STA= 9470. 10571.  
PER Q= 100.0  
AREA= 8177.3  
VEL= 6.7  
DEPTH= 7.5

\*SECNO 6.540

3265 DIVIDED FLOW

6.540	7.87	990.27	988.10	.00	991.32	1.04	.15	.11	997.90
54400.0	.0	54400.0	.0	.0	6634.2	.0	8000.0	2107.6	997.50
1.72	.00	8.20	.00	.000	.030	.000	.000	982.40	9473.14
.002223	100.	90.	75.	2	14	0	.00	1001.00	10572.97

FLOW DISTRIBUTION FOR SECNO= 6.54 CWSEL= 990.27

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SECNO	DEPTH	CWSEL	CRISW	WSELK	EG	HV	HL	OLOSS	L-BANK ELEV
Q	QLOB	QCH	QROB	ALOB	ACH	AROB	VOL	TWA	R-BANK ELEV
TIME	VLOB	VCH	VROB	XLN	XLNCH	XNR	WTN	ELMIN	SSTA
SLOPE	XLOBL	XLCH	XLOBR	ITRIAL	IDC	ICONT	CORAR	TOPWID	ENDST

STA= 9473. 10583.  
PER Q= 100.0  
AREA= 6634.2  
VEL= 8.2  
DEPTH= 6.6

*SECNO 6.560									
6.560	8.69	990.79	987.82	.00	991.52	.74	.17	.03	998.10
54400.0	.0	54400.0	.0	.0	7905.9	.0	8016.7	2110.1	997.70
1.72	.00	6.88	.00	.000	.030	.000	.000	982.10	9473.24
.001412	115.	100.	85.	2	19	0	.00	1107.89	10581.13

FLOW DISTRIBUTION FOR SECNO= 6.56 CWSEL= 990.79

STA= 9473. 10591.  
PER Q= 100.0  
AREA= 7905.9  
VEL= 6.9  
DEPTH= 7.1

*SECNO 6.590	6.590	9.31	991.11	987.44	.00	991.72	.61	.18	.01	998.50
54400.0	.0	54400.0	.0	.0	8703.7	.0	8045.3	2113.9	998.00	
1.73	.00	6.25	.00	.000	.030	.000	.000	981.80	9462.66	
.001031	165.	150.	155.	2	14	0	.00	1112.03	10574.69	

FLOW DISTRIBUTION FOR SECNO= 6.59 CWSEL= 991.11

STA= 9463. 10584.  
PER Q= 100.0  
AREA= 8703.7  
VEL= 6.3  
DEPTH= 7.8

\*SECNO 6.610

3265 DIVIDED FLOW

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SECNO	DEPTH	CWSEL	CRISW	WSELK	EG	HV	HL	OLOSS	L-BANK ELEV
Q	QLOB	QCH	QROB	ALOB	ACH	AROB	VOL	TWA	R-BANK ELEV
TIME	VLOB	VCH	VROB	XNL	XNCH	XNR	WTN	ELMIN	SSTA
SLOPE	XLOBL	XLCH	XLOBR	ITRIAL	IDC	ICONT	CORAR	TOPWID	ENDST
6.610	9.24	991.04	988.47	.00	991.94	.90	.14	.09	998.80
54400.0	.0	54400.0	.0	.0	7156.5	.0	8063.5	2116.4	998.20
1.73	.00	7.60	.00	.000	.030	.000	.000	981.80	9448.77
.001885	115.	100.	85.	2	16	0	.00	1066.40	10562.54

FLOW DISTRIBUTION FOR SECNO= 6.61 CWSEL= 991.04

STA= 9449. 10570.  
PER Q= 100.0  
AREA= 7156.5  
VEL= 7.6  
DEPTH= 6.7

*SECNO 6.640	6.640	9.10	991.50	988.30	.00	992.19	.69	.23	.02	999.30
54400.0	.0	54400.0	.0	.0	8182.3	.0	8089.9	2120.1	998.40	
1.74	.00	6.65	.00	.000	.030	.000	.000	982.40	9454.60	
.001266	165.	150.	135.	2	14	0	.00	1112.14	10566.75	

FLOW DISTRIBUTION FOR SECNO= 6.64 CWSEL= 991.50

STA= 9455. 10575.  
PER Q= 100.0  
AREA= 8182.3  
VEL= 6.6  
DEPTH= 7.4

*SECNO 6.660	6.660	9.40	991.60	989.01	.00	992.43	.83	.20	.04	999.60
54400.0	.0	54400.0	.0	.0	7434.5	.0	8114.1	2123.6	999.00	
1.74	.00	7.32	.00	.000	.030	.000	.000	982.20	9476.36	
.001746	150.	135.	120.	2	19	0	.00	1112.30	10588.65	

FLOW DISTRIBUTION FOR SECNO= 6.66 CWSEL= 991.60

STA= 9476. 10599.  
PER Q= 100.0  
AREA= 7434.5  
VEL= 7.3  
DEPTH= 6.7

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SECNO	DEPTH	CWSEL	CRISW	WSELK	EG	HV	HL	OLOSS	L-BANK ELEV	
Q	QLOB	QCH	QROB	ALOB	ACH	AROB	VOL	TWA	R-BANK ELEV	
TIME	VLOB	VCH	VROB	XNL	XNCH	XNR	WTN	ELMIN	SSTA	
SLOPE	XLOBL	XLCH	XLOBR	ITRIAL	IDC	ICONT	CORAR	TOPWID	ENDST	
*SECNO 6.690	6.690	9.78	991.98	988.54	.00	992.63	.65	.17	.02	1000.00
54400.0	.0	54400.0	.0	.0	8436.5	.0	8136.9	2126.8	998.80	
1.75	.00	6.45	.00	.000	.030	.000	.000	982.20	9462.53	
.001144	145.	125.	100.	2	19	0	.00	1112.59	10575.13	

FLOW DISTRIBUTION FOR SECNO= 6.69 CWSEL= 991.98

STA= 9463. 10585.  
PER Q= 100.0  
AREA= 8436.5  
VEL= 6.4  
DEPTH= 7.6

\*SECNO 6.710

3265 DIVIDED FLOW

6.710	10.61	992.11	988.17	.00	992.76	.65	.14	.00	1000.30
54400.0	.0	54400.0	.0	.0	8414.0	.0	8161.1	2129.8	999.10
1.75	.00	6.47	.00	.000	.030	.000	.000	981.50	9463.26
.001026	130.	125.	115.	2	19	0	.00	1013.34	10574.14

FLOW DISTRIBUTION FOR SECNO= 6.71 CWSEL= 992.11

STA= 9463. 10585.  
PER Q= 100.0  
AREA= 8414.0  
VEL= 6.5  
DEPTH= 8.3

\*SECNO 6.730

6.730	9.90	992.30	988.46	.00	992.88	.58	.11	.01	1000.50
54400.0	.0	54400.0	.0	.0	8908.1	.0	8183.0	2132.5	999.30
1.76	.00	6.11	.00	.000	.030	.000	.000	982.40	9461.58
.000954	110.	110.	110.	2	11	0	.00	1112.35	10573.93

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SECNO	DEPTH	CWSEL	CRISW	WSELK	EG	HV	HL	OLOSS	L-BANK ELEV
Q	QLOB	QCH	QROB	ALOB	ACH	AROB	VOL	TWA	R-BANK ELEV
TIME	VLOB	VCH	VROB	XNL	XNCH	XNR	WTN	ELMIN	SSTA
SLOPE	XLOBL	XLCH	XLOBR	ITRIAL	IDC	ICONT	CORAR	TOPWID	ENDST

FLOW DISTRIBUTION FOR SECNO= 6.73 CWSEL= 992.30

STA= 9462. 10584.  
PER Q= 100.0  
AREA= 8908.1  
VEL= 6.1  
DEPTH= 8.0

\*SECNO 6.770

3301 HV CHANGED MORE THAN HVINS

3302 WARNING: CONVEYANCE CHANGE OUTSIDE OF ACCEPTABLE RANGE, KRATIO = .39

6.770	6.78	991.88	991.55	.00	993.71	1.83	.46	.38	1002.10
54400.0	.0	54400.0	.0	.0	5009.6	.0	8219.7	2138.4	1001.40
1.76	.00	10.86	.00	.000	.030	.000	.000	985.10	9457.39
.006409	215.	230.	245.	3	14	0	.00	1102.91	10560.30

FLOW DISTRIBUTION FOR SECNO= 6.77 CWSEL= 991.88

STA= 9457. 10574.  
PER Q= 100.0  
AREA= 5009.6  
VEL= 10.9  
DEPTH= 4.5

\*SECNO 6.790

3265 DIVIDED FLOW

3301 HV CHANGED MORE THAN HVINS

6.790	8.63	992.33	991.50	.00	994.26	1.33	.49	.05	1002.90
54400.0	.0	54400.0	.0	.0	5885.7	.0	8233.5	2141.0	1002.20
1.77	.00	9.24	.00	.000	.030	.000	.000	984.30	9456.73
.003311	110.	110.	110.	3	8	0	.00	1001.19	10561.16

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SECNO	DEPTH	CWSEL	CRISW	WSELK	EG	HV	HL	OLOSS	L-BANK ELEV
Q	QLOB	QCH	QROB	ALOB	ACH	AROB	VOL	TWA	R-BANK ELEV
TIME	VLOB	VCH	VROB	XNL	XNCH	XNR	WTN	ELMIN	SSTA
SLOPE	XLOBL	XLCH	XLOBR	ITRIAL	IDC	ICONT	CORAR	TOPWID	ENDST

FLOW DISTRIBUTION FOR SECNO= 6.79 CWSEL= 992.93

STA= 9457. 10573.  
PER Q= 100.0  
AREA= 5885.7  
VEL= 9.2  
DEPTH= 5.9

*SECNO 6.820	6.820	8.93	993.73	991.24	.00	994.58	.85	.27	.05	1002.70
	54400.0	.0	54400.0	.0	.0	7358.7	.0	8250.9	2143.8	1001.00
	1.77	.00	7.39	.00	.000	.030	.000	.000	984.80	9457.95
	.001788	115.	115.	115.	2	19	0	.00	1106.10	10564.05

FLOW DISTRIBUTION FOR SECNO= 6.82 CWSEL= 993.73

STA= 9458. 10573.  
PER Q= 100.0  
AREA= 7358.7  
VEL= 7.4  
DEPTH= 6.7

\*SECNO 6.890

3301 HV CHANGED MORE THAN HVINS

3302 WARNING: CONVEYANCE CHANGE OUTSIDE OF ACCEPTABLE RANGE, KRATIO = .54

6.890	4.78	994.18	993.79	.00	995.96	1.79	1.11	.28	1004.20
54400.0	.0	54400.0	.0	.0	5071.2	.0	8303.0	2153.1	1002.70
1.78	.00	10.73	.00	.000	.030	.000	.000	989.40	9454.42
.006210	365.	365.	365.	3	8	0	.00	1110.40	10564.82

FLOW DISTRIBUTION FOR SECNO= 6.89 CWSEL= 994.18

STA= 9454. 10577.  
PER Q= 100.0  
AREA= 5071.2  
VEL= 10.7  
DEPTH= 4.6

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SECNO	DEPTH	CWSEL	CRWS	WSELK	EG	HV	HL	OLOSS	L-BANK ELEV
Q	QLOB	QCH	QROB	ALOB	ACH	AROB	VOL	TWA	R-BANK ELEV
TIME	VLOB	VCH	VROB	XNL	XNCH	XNR	WTN	ELMIN	SSTA
SLOPE	XLOBL	XLCH	XLOBR	ITRIAL	IDC	ICONT	CORAR	TOPWID	ENDST

\*SECNO 6.910

3265 DIVIDED FLOW

6.910	5.31	994.81	994.32	.00	996.62	1.81	.65	.01	1002.80
54400.0	.0	54400.0	.0	.0	5036.9	.0	8315.8	2155.8	1002.70
1.78	.00	10.80	.00	.000	.030	.000	.000	989.50	9443.21
.005685	105.	110.	115.	2	5	0	.00	1018.43	10568.00

FLOW DISTRIBUTION FOR SECNO= 6.91 CWSEL= 994.81

STA= 9443. 10579.  
PER Q= 100.0  
AREA= 5036.9  
VEL= 10.8  
DEPTH= 4.9

\*SECNO 6.930

3301 HV CHANGED MORE THAN HVINS

3302 WARNING: CONVEYANCE CHANGE OUTSIDE OF ACCEPTABLE RANGE, KRATIO = 1.58

6.930	6.21	996.11	994.12	.00	997.07	.96	.36	.09	1004.80
54400.0	.0	54400.0	.0	.0	6915.7	.0	8330.2	2158.4	1003.90
1.79	.00	7.87	.00	.000	.030	.000	.000	989.90	9432.07
.002268	105.	105.	105.	3	15	0	.00	1131.93	10564.01

FLOW DISTRIBUTION FOR SECNO= 6.93 CWSEL= 996.11

STA= 9432. 10573.  
PER Q= 100.0  
AREA= 6915.7  
VEL= 7.9  
DEPTH= 6.1

\*SECNO 6.970

Effective Model Output  
AGUAFRIA.OUT

6.970	6.23	996.63	994.68	.00	997.59	.96	.52	.00	1004.20
54400.0	.0	54400.0	.0	.0	6931.4	.0	8366.7	2164.4	1004.60
1.79	.00	7.85	.00	.000	.030	.000	.000	990.40	9415.89
.002278	220.	230.	240.	2	14	0	.00	1143.00	10558.89

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SECNO	DEPTH	CWSEL	CRISW	WSELK	EG	HV	HL	OLOSS	L-BANK ELEV
Q	QLOB	QCH	QROB	ALOB	ACH	AROB	VOL	TWA	R-BANK ELEV
TIME	VLOB	VCH	VROB	XNL	XNCH	XNR	WTN	ELMIN	SSTA
SLOPE	XLOBL	XLCH	XLOBR	ITRIAL	IDC	ICONT	CORAR	TOPWID	ENDST

FLOW DISTRIBUTION FOR SECNO= 6.97 CWSEL= 996.63

STA= 9416. 10570.  
PER Q= 100.0  
AREA= 6931.4  
VEL= 7.8  
DEPTH= 6.1

\*SECNO 6.990

3265 DIVIDED FLOW

3301 HV CHANGED MORE THAN HVINS

6.990	6.39	996.59	995.55	.00	998.05	1.46	.31	.15	1003.40
54400.0	.0	54400.0	.0	.0	5603.4	.0	8381.8	2167.0	1003.50
1.80	.00	9.71	.00	.000	.030	.000	.000	990.20	9419.31
.004061	95.	105.	115.	2	15	0	.00	1032.44	10549.14

FLOW DISTRIBUTION FOR SECNO= 6.99 CWSEL= 996.59

STA= 9419. 10559.  
PER Q= 100.0  
AREA= 5603.4  
VEL= 9.7  
DEPTH= 5.4

\*SECNO 7.020

3301 HV CHANGED MORE THAN HVINS

3302 WARNING: CONVEYANCE CHANGE OUTSIDE OF ACCEPTABLE RANGE, KRATIO = 1.54

7.020	8.51	997.61	995.04	.00	998.43	.82	.31	.06	1004.50
54400.0	.0	54400.0	.0	.0	7493.2	.0	8400.6	2170.1	1004.00
1.80	.00	7.26	.00	.000	.030	.000	.000	989.10	9444.65
.001702	120.	125.	130.	3	11	0	.00	1115.41	10560.07

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SECNO	DEPTH	CWSEL	CRISW	WSELK	EG	HV	HL	OLOSS	L-BANK ELEV
Q	QLOB	QCH	QROB	ALOB	ACH	AROB	VOL	TWA	R-BANK ELEV
TIME	VLOB	VCH	VROB	XNL	XNCH	XNR	WTN	ELMIN	SSTA
SLOPE	XLOBL	XLCH	XLOBR	ITRIAL	IDC	ICONT	CORAR	TOPWID	ENDST

FLOW DISTRIBUTION FOR SECNO= 7.02 CWSEL= 997.61

STA= 9445. 10570.  
PER Q= 100.0  
AREA= 7493.2  
VEL= 7.3  
DEPTH= 6.7

\*SECNO 7.060

7.060	8.36	997.96	995.68	.00	998.88	.91	.41	.03	1006.00
54400.0	.0	54400.0	.0	.0	7090.4	.0	8438.3	2175.8	1004.80
1.81	.00	7.67	.00	.000	.030	.000	.000	989.60	9457.82
.001990	210.	225.	235.	2	19	0	.00	1092.76	10550.58

FLOW DISTRIBUTION FOR SECNO= 7.06 CWSEL= 997.96

STA= 9458. 10559.  
PER Q= 100.0  
AREA= 7090.4  
VEL= 7.7  
DEPTH= 6.5

\*SECNO 7.080

3265 DIVIDED FLOW

7.080	7.58	998.08	996.04	.00	999.17	1.09	.24	.05	1006.60
54400.0	.0	54400.0	.0	.0	6502.9	.0	8455.5	2178.4	1005.60
1.81	.00	8.37	.00	.000	.030	.000	.000	990.50	9466.81
.002371	110.	110.	110.	2	14	0	.00	998.41	10554.88

FLOW DISTRIBUTION FOR SECNO= 7.08 CWSEL= 998.08

STA= 9467. 10563.  
PER Q= 100.0  
AREA= 6502.9  
VEL= 8.4  
DEPTH= 6.5

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SECNO	DEPTH	CWSEL	CRISW	WSELK	EG	HV	HL	OLOSS	L-BANK ELEV
Q	QLOB	QCH	QROB	ALOB	ACH	AROB	VOL	TWA	R-BANK ELEV
TIME	VLOB	VCH	VROB	XNL	XNCH	XNR	WTN	ELMIN	SSTA
SLOPE	XLOBL	XLCH	XLOBR	ITRIAL	IDC	ICONT	CORAR	TOPWID	ENDST

*SECNO 7.100	7.100	7.45	998.35	996.82	.00	999.52	1.18	.33	.03	1006.30
54400.0	.0	54400.0	.0	.0	6250.8	.0	8473.8	2181.4	1006.10	
1.82	.00	8.70	.00	.000	.030	.000	.000	990.90	9451.71	
.002994	125.	125.	125.	0	15	0	.00	1082.37	10534.08	

FLOW DISTRIBUTION FOR SECNO= 7.10 CWSEL= 998.35

STA= 9452. 10543.  
PER Q= 100.0  
AREA= 6250.8  
VEL= 8.7  
DEPTH= 5.8

\*SECNO 7.200

3302 WARNING: CONVEYANCE CHANGE OUTSIDE OF ACCEPTABLE RANGE, KRATIO = 1.45

7.200	9.10	999.80	996.77	.00	1000.56	.76	.99	.04	1006.90
54400.0	.0	54400.0	.0	.0	7770.1	.0	8554.2	2193.7	1007.20
1.84	.00	7.00	.00	.000	.030	.000	.000	990.70	9482.05
.001417	515.	500.	490.	2	15	0	.00	1063.27	10545.31

FLOW DISTRIBUTION FOR SECNO= 7.20 CWSEL= 999.80

STA= 9482. 10558.  
PER Q= 100.0  
AREA= 7770.1  
VEL= 7.0  
DEPTH= 7.3

\*SECNO 7.290

7.290	7.28	1000.48	998.55	.00	1001.57	1.08	.91	.10	1008.90
54400.0	.0	54400.0	.0	.0	6508.4	.0	8636.2	2205.7	1009.10
1.85	.00	8.36	.00	.000	.030	.000	.000	993.20	9483.22
.002423	490.	500.	510.	2	11	0	.00	1022.39	10505.61

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SECNO	DEPTH	CWSEL	CRISW	WSELK	EG	HV	HL	OLOSS	L-BANK ELEV
Q	QLOB	QCH	QROB	ALOB	ACH	AROB	VOL	TWA	R-BANK ELEV
TIME	VLOB	VCH	VROB	XNL	XNCH	XNR	WTN	ELMIN	SSTA
SLOPE	XLOBL	XLCH	XLOBR	ITRIAL	IDC	ICONT	CORAR	TOPWID	ENDST

FLOW DISTRIBUTION FOR SECNO= 7.29 CWSEL= 1000.48

STA= 9483. 10529.  
PER Q= 100.0  
AREA= 6508.4  
VEL= 8.4  
DEPTH= 6.4

\*SECNO 7.390

7.390	7.89	1001.69	999.05	.00	1002.60	.91	1.02	.02	1008.80
54400.0	.0	54400.0	.0	.0	7105.8	.0	8713.5	2217.2	1009.90
1.87	.00	7.66	.00	.000	.030	.000	.000	993.80	9507.39
.001762	500.	495.	495.	2	19	0	.00	1002.00	10509.40

FLOW DISTRIBUTION FOR SECNO= 7.39 CWSEL= 1001.69

STA= 9507. 10536.  
PER Q= 100.0  
AREA= 7105.8  
VEL= 7.7

DEPTH= 7.1

\*SECNO 7.490

7.490	7.39	1002.59	1000.13	.00	1003.57	.98	.95	.02	1009.50
54400.0	.0	54400.0	.0	.0	6846.1	.0	8796.0	2228.9	1010.90
1.89	.00	7.95	.00	.000	.030	.000	.000	995.20	9517.21
.001936	575.	515.	515.	2	14	0	.00	979.92	10497.13

FLOW DISTRIBUTION FOR SECNO= 7.49 CWSEL= 1002.59

STA= 9517. 10525.  
PER Q= 100.0  
AREA= 6846.1  
VEL= 7.9  
DEPTH= 7.0

\*SECNO 7.580

7.580	8.15	1003.55	1000.36	.00	1004.38	.83	.79	.02	1010.30
54400.0	.0	54400.0	.0	.0	7454.1	.0	8874.8	2239.6	1010.90
1.91	.00	7.30	.00	.000	.030	.000	.000	995.40	9517.08
.001426	540.	480.	405.	2	14	0	.00	965.56	10482.64

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SECNO	DEPTH	CWSEL	CRISW	WSELK	EG	HV	HL	OLOSS	L-BANK ELEV
Q	QLOB	QCH	QROB	ALOB	ACH	AROB	VOL	TWA	R-BANK ELEV
TIME	VLOB	VCH	VROB	XNL	XNCH	XNR	WTN	ELMIN	SSTA
SLOPE	XLOBL	XLCH	XLOBR	ITRIAL	IDC	ICONT	CORAR	TOPWID	ENDST

FLOW DISTRIBUTION FOR SECNO= 7.58 CWSEL= 1003.55

STA= 9517. 10529.  
PER Q= 100.0  
AREA= 7454.1  
VEL= 7.3  
DEPTH= 7.7

\*SECNO 7.670

3302 WARNING: CONVEYANCE CHANGE OUTSIDE OF ACCEPTABLE RANGE, KRATIO = 1.48

3495 OVERBANK AREA ASSUMED NON-EFFECTIVE, ELLEA= 1009.90 ELREA= 1010.10

7.670	10.09	1004.39	999.25	.00	1004.89	.50	.47	.03	1009.90
54400.0	.0	54400.0	.0	.0	9607.4	.0	8974.7	2251.2	1010.10
1.93	.00	5.66	.00	.000	.030	.000	.000	994.30	9521.35
.000653	480.	510.	530.	1	14	0	.00	1010.05	10531.40

FLOW DISTRIBUTION FOR SECNO= 7.67 CWSEL= 1004.39

STA= 9521. 10552.  
PER Q= 100.0  
AREA= 9607.4  
VEL= 5.7  
DEPTH= 9.5

\*SECNO 7.770

3495 OVERBANK AREA ASSUMED NON-EFFECTIVE, ELLEA= 1010.50 ELREA= 1010.90

7.770	8.58	1004.68	1001.05	.00	1005.37	.68	.42	.06	1010.50
54400.0	.0	54400.0	.0	.0	8203.9	.0	9076.9	2262.9	1010.90
1.96	.00	6.63	.00	.000	.030	.000	.000	996.10	9499.02
.001134	510.	500.	500.	2	8	0	.00	1031.78	10530.80

FLOW DISTRIBUTION FOR SECNO= 7.77 CWSEL= 1004.68

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SECNO	DEPTH	CWSEL	CRISW	WSELK	EG	HV	HL	OLOSS	L-BANK ELEV
Q	QLOB	QCH	QROB	ALOB	ACH	AROB	VOL	TWA	R-BANK ELEV
TIME	VLOB	VCH	VROB	XNL	XNCH	XNR	WTN	ELMIN	SSTA
SLOPE	XLOBL	XLCH	XLOBR	ITRIAL	IDC	ICONT	CORAR	TOPWID	ENDST

STA= 9499. 10556.  
PER Q= 100.0  
AREA= 8203.9  
VEL= 6.6  
DEPTH= 8.0

\*SECNO 7.870

3495 OVERBANK AREA ASSUMED NON-EFFECTIVE, ELLEA= 1010.50 ELREA= 1013.10

7.870	7.88	1005.28	1002.02	.00	1005.96	.68	.59	.00	1010.50
54400.0	.0	54400.0	.0	.0	8245.7	.0	9171.3	2275.2	1013.10
1.98	.00	6.60	.00	.000	.030	.000	.000	997.40	9460.36
.001234	650.	500.	410.	2	11	0	.00	1113.52	10573.88

FLOW DISTRIBUTION FOR SECNO= 7.87 CWSEL= 1005.28

STA= 9460. 10589.  
PER Q= 100.0  
AREA= 8245.7  
VEL= 6.6  
DEPTH= 7.4

\*SECNO 7.960

3495 OVERBANK AREA ASSUMED NON-EFFECTIVE, ELLEA= 1013.00 ELREA= 1012.40

7.960	7.37	1005.97	1002.61	.00	1006.50	.53	.53	.01	1013.00
54400.0	.0	54400.0	.0	.0	9308.8	.0	9266.0	2288.3	1012.40
2.00	.00	5.84	.00	.000	.030	.000	.000	998.60	9346.52
.001028	460.	470.	470.	2	8	0	.00	1315.04	10661.56

FLOW DISTRIBUTION FOR SECNO= 7.96 CWSEL= 1005.97

STA= 9347. 10669.  
PER Q= 100.0  
AREA= 9308.8  
VEL= 5.8  
DEPTH= 7.1

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SECNO	DEPTH	CWSEL	CRISW	WSELK	EG	HV	HL	OLOSS	L-BANK ELEV
Q	QLOB	QCH	QROB	ALOB	ACH	AROB	VOL	TWA	R-BANK ELEV
TIME	VLOB	VCH	VROB	XNL	XNCH	XNR	WTN	ELMIN	SSTA
SLOPE	XLOBL	XLCH	XLOBR	ITRIAL	IDC	ICONT	CORAR	TOPWID	ENDST

\*SECNO 7.990

3495 OVERBANK AREA ASSUMED NON-EFFECTIVE, ELLEA= 1014.90 ELREA= 1014.80

7.990	7.08	1006.18	1002.86	.00	1006.68	.50	.18	.00	1014.90
54400.0	.0	54400.0	.0	.0	9569.4	.0	9303.9	2293.8	1014.80
2.01	.00	5.68	.00	.000	.030	.000	.000	999.10	9318.01
.001003	175.	175.	175.	1	8	0	.00	1385.60	10703.62

FLOW DISTRIBUTION FOR SECNO= 7.99 CWSEL= 1006.18

STA= 9318. 10732.  
PER Q= 100.0  
AREA= 9569.4  
VEL= 5.7  
DEPTH= 6.9

CCHV= .300 CEHV= .500

\*SECNO 8.000

3370 NORMAL BRIDGE, NRD= 68 MIN ELTRD= 1021.30 MAX ELLC= 1013.30

\*\*\*\*\*  
\*\*\*\*\* INDIAN SCHOOL ROAD \*\*\*\*\*  
\*\*\*\*\* LOW CHORD = 1013.3 \*\*\*\*\*  
\*\*\*\*\*

8.000	6.98	1006.18	1003.12	.00	1006.80	.62	.06	.06	1013.30
54400.0	.0	54400.0	.0	.0	8640.8	.0	9314.4	2295.4	1013.30
2.01	.00	6.30	.00	.000	.030	.000	.000	999.20	9249.43
.001515	50.	50.	50.	2	18	0	-1471.77	1461.69	10711.12

FLOW DISTRIBUTION FOR SECNO= 8.00 CWSEL= 1006.18

STA= 9249. 10725.  
PER Q= 100.0  
AREA= 8640.8  
VEL= 6.3  
DEPTH= 5.9

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SECNO	DEPTH	CWSEL	CRISW	WSELK	EG	HV	HL	OLOSS	L-BANK ELEV
Q	QLOB	QCH	QROB	ALOB	ACH	AROB	VOL	TWA	R-BANK ELEV
TIME	VLOB	VCH	VROB	XNL	XNCH	XNR	WTN	ELMIN	SSTA
SLOPE	XLOBL	XLCH	XLOBR	ITRIAL	IDC	ICONT	CORAR	TOPWID	ENDST

\*SECNO 8.010

3370 NORMAL BRIDGE, NRD= 68 MIN ELTRD= 1021.30 MAX ELLC= 1013.30

8.010	7.13	1006.33	1003.12	.00	1006.92	.59	.11	.01	1013.30
54400.0	.0	54400.0	.0	.0	8818.5	.0	9329.4	2297.9	1013.30
2.01	.00	6.17	.00	.000	.030	.000	.000	999.20	9249.15
.001422	75.	75.	75.	2	18	0	-1501.83	1462.25	10711.40

FLOW DISTRIBUTION FOR SECNO= 8.01 CWSEL= 1006.33

STA= 9249. 10725.  
PER Q= 100.0  
AREA= 8818.5  
VEL= 6.2  
DEPTH= 6.0

CCHV= .100 CEHV= .300  
\*SECNO 8.030

3302 WARNING: CONVEYANCE CHANGE OUTSIDE OF ACCEPTABLE RANGE, KRATIO = .70

3470 ENCROACHMENT STATIONS=	9440.0	10904.0	TYPE=	1	TARGET=	1464.000			
8.030	6.99	1006.19	1004.79	.00	1007.12	.93	.10	.10	1009.80
54400.0	.0	54400.0	.0	.0	7047.5	.0	9338.5	2299.6	1013.00
2.01	.00	7.72	.00	.000	.030	.000	.000	999.20	9451.49
.002925	50.	50.	50.	2	15	0	.00	1436.45	10887.94

FLOW DISTRIBUTION FOR SECNO= 8.03 CWSEL= 1006.19

STA= 9451. 10903.  
PER Q= 100.0  
AREA= 7047.5  
VEL= 7.7  
DEPTH= 4.9

\*SECNO 8.105

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SECNO	DEPTH	CWSEL	CRISW	WSELK	EG	HV	HL	OLOSS	L-BANK ELEV
Q	QLOB	QCH	QROB	ALOB	ACH	AROB	VOL	TWA	R-BANK ELEV
TIME	VLOB	VCH	VROB	XNL	XNCH	XNR	WTN	ELMIN	SSTA
SLOPE	XLOBL	XLCH	XLOBR	ITRIAL	IDC	ICONT	CORAR	TOPWID	ENDST

3470 ENCROACHMENT STATIONS=	9381.0	10980.0	TYPE=	1	TARGET=	1599.000			
8.105	6.90	1007.40	1005.31	.00	1008.04	.64	.90	.03	1001.80
54400.0	2509.1	51890.9	.0	516.7	7989.9	.0	9408.8	2313.2	1014.40
2.03	4.86	6.49	.00	.040	.030	.000	.000	1000.50	9395.59
.001816	280.	398.	620.	2	19	0	.00	1575.09	10970.68

FLOW DISTRIBUTION FOR SECNO= 8.10 CWSEL= 1007.40

STA= 9396. 9401. 9405. 9414. 9416. 9423. 9433. 9494. 10979.  
PER Q= .0 .1 .4 .1 .5 .5 2.9 95.4  
AREA= 8.1 14.7 48.7 15.0 47.2 55.6 327.4 7989.9  
VEL= 1.9 3.6 4.8 4.8 5.6 5.1 4.8 6.5  
DEPTH= 1.5 4.2 5.4 6.0 6.7 5.9 5.4 5.4

\*SECNO 8.198

3470 ENCROACHMENT STATIONS=	9458.6	10971.1	TYPE=	1	TARGET=	1512.500			
8.198	6.79	1008.29	1006.43	.00	1009.03	.74	.96	.03	1014.90
54400.0	.0	54400.0	.0	.0	7882.2	.0	9500.6	2330.4	1015.80
2.05	.00	6.90	.00	.000	.030	.000	.000	1001.50	9470.48
.002120	420.	490.	620.	2	19	0	.00	1493.30	10963.78

FLOW DISTRIBUTION FOR SECNO= 8.20 CWSEL= 1008.29

STA= 9470. 10971.  
PER Q= 100.0  
AREA= 7882.2  
VEL= 6.9  
DEPTH= 5.3

\*SECNO 8.325

3470 ENCROACHMENT STATIONS=	9479.9	11053.1	TYPE=	1	TARGET=	1573.199			
8.325	7.90	1010.00	1008.31	.00	1010.76	.76	1.73	.01	1013.10
54400.0	.0	51757.3	2642.7	.0	7354.9	435.3	9621.1	2353.8	1004.70
2.08	.00	7.04	6.07	.000	.035	.040	.000	1002.10	9483.50
.003204	645.	669.	705.	2	15	0	.00	1556.63	11040.13

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SECNO	DEPTH	CWSEL	CRISW	WSELK	EG	HV	HL	OLOSS	L-BANK ELEV
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Effective Model Output  
AGUAFRIA.OUT

Q	QLOB	QCH	QROB	ALOB	ACH	AROB	VOL	TWA	R-BANK ELEV
TIME	VLOB	VCH	VROB	XLN	XLNCH	XNR	WTN	ELMIN	SSTA
SLOPE	XLOBL	XLCH	XLOBR	ITRIAL	IDC	ICONT	CORAR	TOPWID	ENDST

FLOW DISTRIBUTION FOR SECNO= 8.32 CWSEL= 1010.00

STA=	9483.	10950.	11032.	11040.
PER Q=	95.1	4.7		.1
AREA=	7354.9	416.7	18.5	
VEL=	7.0	6.2	3.4	
DEPTH=	5.0	5.1	2.4	

\*SECNO 8.433

3265 DIVIDED FLOW

3470 ENCROACHMENT STATIONS=	9009.5	11000.0	TYPE=	1	TARGET=	1990.500			
8.433	6.98	1011.98	1010.79	.00	1012.96	.97	2.13	.06	1010.00
54400.0	14139.5	40091.7	168.7	2214.4	4767.2	91.9	9717.8	2374.9	1013.80
2.10	6.39	8.41	1.84	.040	.035	.040	.000	1005.00	9018.94
.004476	510.	573.	660.	2	19	0	.00	1666.40	10992.81

FLOW DISTRIBUTION FOR SECNO= 8.43 CWSEL= 1011.98

STA=	9019.	9131.	9195.	9401.	9517.	9583.	10598.	10993.
PER Q=	8.2	4.7	7.7	3.5	1.9	73.7		.3
AREA=	591.2	337.5	728.8	356.7	200.1	4767.2	91.9	
VEL=	7.6	7.5	5.8	5.3	5.2	8.4	1.8	
DEPTH=	5.3	5.3	3.5	3.1	3.0	5.1	.2	

\*SECNO 8.534

3280 CROSS SECTION 8.53 EXTENDED 1.18 FEET

3301 HV CHANGED MORE THAN HVINS

3470 ENCROACHMENT STATIONS=	8509.0	11252.0	TYPE=	1	TARGET=	2743.000			
8.534	6.58	1014.38	1012.87	.00	1014.82	.43	1.80	.05	1013.00
54400.0	13874.2	28868.7	11657.2	2478.5	5597.1	2222.3	9824.0	2401.0	1012.20
2.13	5.60	5.16	5.25	.040	.035	.040	.000	1007.80	8512.76
.002652	540.	531.	525.	2	16	0	.00	2607.48	11120.24

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SECNO	DEPTH	CWSEL	CRISW	WSELK	EG	HV	HL	OLOSS	L-BANK ELEV
Q	QLOB	QCH	QROB	ALOB	ACH	AROB	VOL	TWA	R-BANK ELEV
TIME	VLOB	VCH	VROB	XLN	XLNCH	XNR	WTN	ELMIN	SSTA
SLOPE	XLOBL	XLCH	XLOBR	ITRIAL	IDC	ICONT	CORAR	TOPWID	ENDST

FLOW DISTRIBUTION FOR SECNO= 8.53 CWSEL= 1014.38

STA=	8513.	8680.	8906.	9054.	9067.	10612.	10766.	11096.	11120.
PER Q=	3.9	17.4	4.0	.2	53.1	3.7	17.2	.5	
AREA=	501.4	1440.1	499.7	37.2	5597.1	488.1	1662.1	72.1	
VEL=	4.2	6.6	4.3	3.6	5.2	4.1	5.6	3.9	
DEPTH=	3.0	6.4	3.4	2.7	3.6	3.2	5.0	2.9	

\*SECNO 8.646

3470 ENCROACHMENT STATIONS=	8692.3	11500.0	TYPE=	1	TARGET=	2807.700			
8.646	7.95	1015.75	1013.59	.00	1016.14	.39	1.32	.00	1013.00
54400.0	11389.9	33620.8	9389.4	2281.5	6379.9	2374.8	9968.4	2435.9	1014.60
2.16	4.99	5.27	3.95	.040	.035	.040	.000	1007.80	8772.94
.001910	575.	592.	600.	2	15	0	.00	2548.87	11321.82

FLOW DISTRIBUTION FOR SECNO= 8.65 CWSEL= 1015.75

STA=	8773.	8896.	9024.	9124.	9269.	10601.	11062.	11142.	11288.	11322.
PER Q=	5.3	8.4	4.3	2.9	61.8	6.5	3.6	6.7	.5	
AREA=	517.9	818.5	495.8	449.4	6379.9	1125.7	406.5	749.3	93.4	
VEL=	5.5	5.6	4.8	3.5	5.3	3.1	4.8	4.8	3.2	
DEPTH=	4.2	6.4	5.0	3.1	4.8	2.4	5.0	5.1	2.8	

\*SECNO 8.768

3265 DIVIDED FLOW

3302 WARNING: CONVEYANCE CHANGE OUTSIDE OF ACCEPTABLE RANGE, KRATIO = .65

3470 ENCROACHMENT STATIONS=	8182.6	11500.0	TYPE=	1	TARGET=	3317.400			
8.768	8.86	1017.26	1016.64	.00	1018.03	.77	1.78	.11	1014.30
54400.0	16261.4	22948.9	15189.7	2564.9	2693.8	3053.2	10109.6	2476.6	1015.80
2.18	6.34	8.52	4.97	.040	.035	.040	.000	1008.40	8182.95
.004499	620.	642.	640.	2	8	0	.00	3037.83	11299.11

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SECNO	DEPTH	CWSEL	CRISW	WSELK	EG	HV	HL	OLOSS	L-BANK ELEV
Q	QLOB	QCH	QROB	ALOB	ACH	AROB	VOL	TWA	R-BANK ELEV
TIME	VLOB	VCH	VROB	XNL	XNCH	XNR	WTN	ELMIN	SSTA
SLOPE	XLOBL	XLCH	XLOBR	ITRIAL	IDC	ICONT	CORAR	TOPWID	ENDST

FLOW DISTRIBUTION FOR SECNO= 8.77 CWSEL= 1017.26

STA=	8183.	9187.	9230.	9377.	9575.	9585.	10103.	10461.	10650.	11251.	11299.
PER Q=	3.3	4.2	16.9	5.3	.2	42.2	3.5	3.4	20.8	.3	
AREA=	696.4	269.9	1015.5	558.7	24.3	2693.8	559.7	428.3	2019.5	45.7	
VEL=	2.6	8.5	9.0	5.1	4.7	8.5	3.4	4.3	5.6	3.5	
DEPTH=	.7	6.3	6.9	2.8	2.6	5.2	1.6	2.3	3.4	.9	

\*SECNO 8.875

3265 DIVIDED FLOW

3470 ENCROACHMENT STATIONS=	8600.0	11500.0	TYPE=	1	TARGET=	2900.000				
8.875	10.42	1019.52	1018.82	.00	1020.29	.77	2.26	.00	1016.30	
54400.0	10454.6	35287.4	8658.1	2356.9	4313.1	2246.6	10219.5	2513.9	1017.30	
2.21	4.44	8.18	3.85	.040	.035	.040	.000	1009.10	8600.00	
.003660	570.	565.	530.	2	8	0	.00	2837.14	11450.46	

FLOW DISTRIBUTION FOR SECNO= 8.88 CWSEL= 1019.52

STA=	8600.	8979.	9417.	9586.	9642.	10399.	10607.	11316.	11450.
PER Q=	5.2	5.3	4.8	3.9	64.9	3.4	11.9	.6	
AREA=	781.4	778.8	494.9	301.9	4313.1	472.5	1648.1	126.1	
VEL=	3.6	3.7	5.2	7.0	8.2	3.9	3.9	2.6	
DEPTH=	2.1	1.8	2.9	5.4	5.7	2.3	2.3	.9	

\*SECNO 8.992

3265 DIVIDED FLOW

3302 WARNING: CONVEYANCE CHANGE OUTSIDE OF ACCEPTABLE RANGE, KRATIO = 1.48

3470 ENCROACHMENT STATIONS=	9300.0	11545.0	TYPE=	1	TARGET=	2245.000				
8.992	13.24	1021.34	1018.77	.00	1021.78	.44	1.46	.03	1017.80	
54400.0	3186.2	50412.8	801.0	1106.5	9214.0	209.5	10355.3	2548.6	1019.00	
2.24	2.88	5.47	3.82	.040	.035	.040	.000	1008.10	9300.00	
.001670	660.	620.	470.	2	8	0	.00	2206.57	11513.83	

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SECNO	DEPTH	CWSEL	CRISW	WSELK	EG	HV	HL	OLOSS	L-BANK ELEV
Q	QLOB	QCH	QROB	ALOB	ACH	AROB	VOL	TWA	R-BANK ELEV
TIME	VLOB	VCH	VROB	XNL	XNCH	XNR	WTN	ELMIN	SSTA
SLOPE	XLOBL	XLCH	XLOBR	ITRIAL	IDC	ICONT	CORAR	TOPWID	ENDST

FLOW DISTRIBUTION FOR SECNO= 8.99 CWSEL= 1021.34

STA=	9300.	9666.	9819.	11459.	11514.
PER Q=	3.2	2.7	92.7	1.5	
AREA=	647.6	458.9	9214.0	209.5	
VEL=	2.7	3.2	5.5	3.8	
DEPTH=	1.8	3.0	5.6	3.8	

\*SECNO 9.098

3470 ENCROACHMENT STATIONS=	9707.9	11720.1	TYPE=	1	TARGET=	2012.199				
9.098	12.32	1022.22	1019.38	.00	1022.64	.42	.85	.00	1015.80	
54400.0	534.9	53804.3	60.9	195.5	10328.2	27.3	10491.3	2574.8	1017.90	
2.27	2.74	5.21	2.23	.040	.035	.040	.000	1009.90	9732.91	
.001386	630.	562.	235.	2	14	0	.00	1825.25	11558.16	

FLOW DISTRIBUTION FOR SECNO= 9.10 CWSEL= 1022.22

STA=	9733.	9750.	9760.	9773.	9796.	9817.	9821.	11546.	11558.
PER Q=	.0	.0	.1	.2	.4	.2	98.9	.1	
AREA=	8.9	13.3	21.4	54.4	74.6	23.0	10328.2	27.3	
VEL=	1.0	1.6	1.9	2.5	3.2	3.8	5.2	2.2	
DEPTH=	.5	1.2	1.7	2.4	3.6	5.2	6.0	2.2	

CCHV= .300 CEHV= .500

\*SECNO 9.177

3470 ENCROACHMENT STATIONS= 9836.0 11608.0 TYPE= 1 TARGET= 1772.000

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\*\*\*\*\* CAMELBACK ROAD \*\*\*\*\*  
\*\*\*\*\* LOW CHORD = 1027.5 \*\*\*\*\*  
\*\*\*\*\*

9.177	12.42	1022.82	1020.28	.00	1023.31	.49	.64	.04	1023.70
54400.0	.0	54400.0	.0	.0	9687.1	.0	10587.9	2591.6	1024.70
2.29	.00	5.62	.00	.000	.035	.000	.000	1010.40	9885.95
.001713	460.	416.	220.	2	14	0	.00	1692.83	11578.78

FLOW DISTRIBUTION FOR SECNO= 9.18 CWSEL= 1022.82

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SECNO	DEPTH	CWSEL	CRISW	WSELK	EG	HV	HL	OLOSS	L-BANK ELEV
Q	QLOB	QCH	QROB	ALOB	ACH	AROB	VOL	TWA	R-BANK ELEV
TIME	VLOB	VCH	VROB	XNL	XNCH	XNR	WTN	ELMIN	SSTA
SLOPE	XLOBL	XLCH	XLOBR	ITRIAL	IDC	ICONT	CORAR	TOPWID	ENDST

STA= 9886. 11586.  
PER Q= 100.0  
AREA= 9687.1  
VEL= 5.6  
DEPTH= 5.7

SPECIAL BRIDGE

SB	XK	XKOR	COFQ	RDLEN	BWC	BWP	BAREA	SS	ELCHU	ELCHD
1.05	1.56	2.70	.00	1650.00	84.00	18351.47	3.00	1016.00	1016.00	

\*SECNO 9.191  
BTCARD, BRIDGE STENCL= 9850.00 STENCR= 11610.00  
CLASS A LOW FLOW

3420 BRIDGE W.S.= 1022.78 BRIDGE VELOCITY= 5.06 CALCULATED CHANNEL AREA= 10752.

EGPRS	EGLWC	H3	QWEIR	QLOW	BAREA	TRAPEZOID AREA	ELLC	ELTRD	WEIRLN
.00	1023.35	.06	0.	54400.	18351.	25492.	1031.80	1034.20	0.

3470 ENCROACHMENT STATIONS= 9850.0 11610.0 TYPE= 1 TARGET= 1760.000

9.191	12.18	1022.88	.00	.00	1023.35	.47	.04	.00	1032.50
54400.0	.0	54400.0	.0	.0	9899.7	.0	10601.4	2594.0	1032.30
2.29	.00	5.50	.00	.000	.035	.000	.000	1010.70	9888.19
.001584	60.	60.	60.	0	0	0	.00	1685.90	11574.09

FLOW DISTRIBUTION FOR SECNO= 9.19 CWSEL= 1022.88

STA= 9888. 11607.  
PER Q= 100.0  
AREA= 9899.7  
VEL= 5.5  
DEPTH= 5.9

\*SECNO 9.198  
3280 CROSS SECTION 9.20 EXTENDED 5.32 FEET

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SECNO	DEPTH	CWSEL	CRISW	WSELK	EG	HV	HL	OLOSS	L-BANK ELEV
Q	QLOB	QCH	QROB	ALOB	ACH	AROB	VOL	TWA	R-BANK ELEV
TIME	VLOB	VCH	VROB	XNL	XNCH	XNR	WTN	ELMIN	SSTA
SLOPE	XLOBL	XLCH	XLOBR	ITRIAL	IDC	ICONT	CORAR	TOPWID	ENDST

3470 ENCROACHMENT STATIONS= 9862.4 11582.2 TYPE= 1 TARGET= 1719.800

9.198	11.82	1022.92	1020.55	.00	1023.44	.52	.06	.03	1022.50
54400.0	.1	54399.9	.0	.2	9406.4	.0	10609.0	2595.3	1024.10
2.29	.43	5.78	.00	.050	.035	.000	.000	1011.10	9884.46
.001887	34.	34.	34.	2	14	0	.00	1692.50	11576.97

FLOW DISTRIBUTION FOR SECNO= 9.20 CWSEL= 1022.92

STA= 9884. 9886. 11582.  
PER Q= .0 100.0  
AREA= .2 9406.4  
VEL= .4 5.8  
DEPTH= .2 5.6

\*SECNO 9.266

3470 ENCROACHMENT STATIONS= 9439.6 11700.0 TYPE= 1 TARGET= 2260.400

9.266	9.99	1023.69	1021.32	.00	1024.11	.42	.65	.03	1022.10
54400.0	976.5	52093.1	1330.4	504.5	9825.6	400.8	10691.9	2611.5	1021.50
2.31	1.94	5.30	3.32	.050	.035	.050	.000	1013.70	9441.69

.001723 355. 359. 340. 2 14 0 .00 2258.31 11700.00

FLOW DISTRIBUTION FOR SECNO= 9.27 CWSEL= 1023.69  
 STA= 9442. 9530. 9576. 9662. 9726. 11607. 11635. 11661. 11700.  
 PER Q= .2 .4 .9 .3 95.8 .5 1.1 .8  
 AREA= 89.1 110.8 208.9 95.7 9825.6 99.7 147.6 153.5  
 VEL= 1.3 2.2 2.2 1.6 5.3 2.9 4.0 3.0  
 DEPTH= 1.0 2.4 2.4 1.5 5.2 3.6 5.8 3.9

CCHV= .100 CEHV= .300  
 \*SECNO 9.343

3265 DIVIDED FLOW

3470 ENCROACHMENT STATIONS= 9408.8 12100.0 TYPE= 1 TARGET= 2691.200  
 9.343 9.99 1024.39 1022.12 .00 1024.92 .52 .78 .03 1022.60  
 54400.0 7.0 53506.5 886.5 8.6 9132.5 604.9 10787.7 2633.9 1023.70  
 2.33 .81 5.86 1.47 .050 .035 .050 .000 1014.40 9496.60  
 .002121 400. 407. 420. 2 19 0 .00 2503.80 12100.00

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SECNO	DEPTH	CWSEL	CRISW	WSELK	EG	HV	HL	OLOSS	L-BANK ELEV
Q	QLOB	QCH	QROB	ALOB	ACH	AROB	VOL	TWA	R-BANK ELEV
TIME	VLOB	VCH	VROB	XLN	XNCH	XNR	WTN	ELMIN	SSTA
SLOPE	XLOBL	XLCH	XLOBR	ITRIAL	IDC	ICONT	CORAR	TOPWID	ENDST

FLOW DISTRIBUTION FOR SECNO= 9.34 CWSEL= 1024.39

STA= 9497. 9619. 11377. 12100.  
 PER Q= .0 98.4 1.6  
 AREA= 8.5 9132.5 604.9  
 VEL= .8 5.9 1.5  
 DEPTH= .1 5.2 .8

\*SECNO 9.435

3265 DIVIDED FLOW

3470 ENCROACHMENT STATIONS= 8158.2 11839.2 TYPE= 1 TARGET= 3681.000  
 9.435 10.18 1025.38 1023.14 .00 1025.93 .56 1.01 .01 1025.00  
 54400.0 113.9 53473.1 813.0 105.2 8857.5 559.4 10894.5 2660.7 1025.80  
 2.36 1.08 6.04 1.45 .050 .035 .050 .000 1015.20 9363.65  
 .002055 475. 482. 495. 2 14 0 .00 2307.82 11822.13

FLOW DISTRIBUTION FOR SECNO= 9.44 CWSEL= 1025.38

STA= 9364. 9490. 9549. 11146. 11347. 11396. 11715. 11800. 11817. 11822.  
 PER Q= .1 .1 98.3 .2 .1 .8 .4 .1 .0  
 AREA= 56.1 49.1 8857.5 57.0 36.3 311.8 124.6 24.8 4.9  
 VEL= 1.0 1.2 6.0 1.6 1.1 1.3 1.7 1.7 1.2  
 DEPTH= .4 .8 5.6 .3 .7 1.0 1.5 1.4 .9

\*SECNO 9.519

3470 ENCROACHMENT STATIONS= 9353.8 11803.0 TYPE= 1 TARGET= 2449.200  
 9.519 10.03 1026.33 1024.44 .00 1026.96 .63 1.00 .02 1025.30  
 54400.0 315.9 52684.2 1399.9 194.4 8116.8 816.1 10989.9 2685.0 1024.80  
 2.38 1.63 6.49 1.72 .050 .035 .050 .000 1016.30 9358.27  
 .002481 450. 446. 445. 1 14 0 .00 2436.07 11794.34

FLOW DISTRIBUTION FOR SECNO= 9.52 CWSEL= 1026.33

STA= 9358. 9530. 11038. 11794.  
 PER Q= .6 96.8 2.6  
 AREA= 194.4 8116.8 816.1  
 VEL= 1.6 6.5 1.7  
 DEPTH= 1.1 5.4 1.1

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SECNO	DEPTH	CWSEL	CRISW	WSELK	EG	HV	HL	OLOSS	L-BANK ELEV
Q	QLOB	QCH	QROB	ALOB	ACH	AROB	VOL	TWA	R-BANK ELEV
TIME	VLOB	VCH	VROB	XLN	XNCH	XNR	WTN	ELMIN	SSTA
SLOPE	XLOBL	XLCH	XLOBR	ITRIAL	IDC	ICONT	CORAR	TOPWID	ENDST

\*SECNO 9.605

3265 DIVIDED FLOW

3470 ENCROACHMENT STATIONS= 9333.0 11778.8 TYPE= 1 TARGET= 2445.800

9.605	8.72	1027.42	1025.29	.00	1028.08	.66	1.11	.01	1026.20
54400.0	119.0	53791.4	489.6	99.4	8222.1	381.5	11082.7	2708.9	1026.70
2.39	1.20	6.54	1.28	.050	.035	.050	.000	1018.70	9338.06
.002430	450.	453.	455.	2	23	0	.00	2156.08	11770.33

FLOW DISTRIBUTION FOR SECNO= 9.60 CWSEL= 1027.42

STA= 9338. 9528. 11013. 11770.  
 PER Q= .2 98.9 .9  
 AREA= 99.4 8222.1 381.5  
 VEL= 1.2 6.5 1.3  
 DEPTH= .5 5.5 .5

\*SECNO 9.696

3470 ENCROACHMENT STATIONS=	9015.0	11702.1	TYPE=	1	TARGET=	2687.100			
9.696	10.02	1028.72	1025.81	.00	1029.08	.36	.97	.03	1026.20
54400.0	19398.7	33916.6	1084.7	4128.6	6859.3	813.4	11198.1	2735.4	1026.90
2.42	4.70	4.94	1.33	.050	.035	.050	.000	1018.70	9021.69
.001624	530.	484.	430.	2	14	0	.00	2678.25	11699.95

FLOW DISTRIBUTION FOR SECNO= 9.70 CWSEL= 1028.72

STA= 9022. 9101. 9317. 9420. 9588. 9603. 10996. 11700.  
 PER Q= 3.2 20.6 6.3 5.3 .2 62.3 2.0  
 AREA= 415.0 2070.7 760.5 833.1 49.3 6859.3 813.4  
 VEL= 4.2 5.4 4.5 4.5 3.5 2.7 4.9 1.3  
 DEPTH= 5.2 9.6 7.4 5.0 3.5 4.9 1.2

\*SECNO 9.790

3302 WARNING: CONVEYANCE CHANGE OUTSIDE OF ACCEPTABLE RANGE, KRATIO = .63

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SECNO	DEPTH	CWSEL	CRISW	WSELK	EG	HV	HL	OLOSS	L-BANK ELEV
Q	QLOB	QCH	QROB	ALOB	ACH	AROB	VOL	TWA	R-BANK ELEV
TIME	VLOB	VCH	VROB	XLN	XLNCH	XNR	WTN	ELMIN	SSTA
SLOPE	XLOBL	XLCH	XLOBR	ITRIAL	IDC	ICONT	CORAR	TOPWID	ENDST

3470 ENCROACHMENT STATIONS=	9136.2	11950.0	TYPE=	1	TARGET=	2813.800			
9.790	10.08	1029.58	1026.99	.00	1029.82	.24	.73	.01	1029.10
30000.0	746.7	26737.7	2515.7	563.1	6418.4	1486.3	11313.6	2764.7	1029.40
2.46	1.33	4.17	1.69	.050	.035	.050	.000	1019.50	9140.72
.001229	570.	493.	365.	2	18	0	.00	2809.28	11950.00

FLOW DISTRIBUTION FOR SECNO= 9.79 CWSEL= 1029.58

STA= 9141. 9555. 10924. 11617. 11842. 11950.  
 PER Q= 2.5 89.1 3.2 3.3 1.9  
 AREA= 563.1 6418.4 676.6 524.9 284.9  
 VEL= 1.3 4.2 1.4 1.9 2.0  
 DEPTH= 1.4 4.7 1.0 2.3 2.6

\*SECNO 9.885

3302 WARNING: CONVEYANCE CHANGE OUTSIDE OF ACCEPTABLE RANGE, KRATIO = .65

3470 ENCROACHMENT STATIONS=	9327.8	12100.0	TYPE=	1	TARGET=	2772.200			
9.885	9.28	1030.38	1029.34	.00	1030.77	.40	.90	.05	1031.30
30000.0	.0	26162.4	3837.6	.0	4889.3	1710.7	11399.2	2794.4	1029.90
2.49	.00	5.35	2.24	.000	.035	.050	.000	1021.10	9331.20
.002931	520.	504.	460.	2	14	0	.00	2494.57	11825.77

FLOW DISTRIBUTION FOR SECNO= 9.89 CWSEL= 1030.38

STA= 9331. 10707. 11099. 11325. 11748. 11826.  
 PER Q= 87.2 3.1 3.3 5.5 .8  
 AREA= 4889.3 480.8 413.7 699.1 117.1  
 VEL= 5.4 1.9 2.4 2.4 2.2  
 DEPTH= 3.6 1.2 1.8 1.7 1.5

\*SECNO 9.981

3265 DIVIDED FLOW

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SECNO	DEPTH	CWSEL	CRISW	WSELK	EG	HV	HL	OLOSS	L-BANK ELEV
Q	QLOB	QCH	QROB	ALOB	ACH	AROB	VOL	TWA	R-BANK ELEV
TIME	VLOB	VCH	VROB	XLN	XLNCH	XNR	WTN	ELMIN	SSTA
SLOPE	XLOBL	XLCH	XLOBR	ITRIAL	IDC	ICONT	CORAR	TOPWID	ENDST

3470 ENCROACHMENT STATIONS= 9288.0 12300.0 TYPE= 1 TARGET= 3012.000  
 9.981 8.90 1031.70 1030.20 .00 1032.07 .37 1.29 .00 1033.50  
 30000.0 .0 25255.9 4744.1 .0 4829.4 2188.2 11472.4 2820.0 1029.70  
 2.52 .00 5.23 2.17 .000 .035 .050 .000 1022.80 9308.54  
 .002427 620. 504. 380. 2 12 0 .00 2526.00 12300.00

FLOW DISTRIBUTION FOR SECNO= 9.98 CWSEL= 1031.70

STA= 9309. 10529. 10835. 11180. 11499. 12300.  
 PER Q= 84.2 3.7 3.8 5.9 2.4  
 AREA= 4829.4 527.9 558.7 692.0 409.6  
 VEL= 5.2 2.1 2.0 2.6 1.8  
 DEPTH= 4.0 1.7 1.6 2.2 .5

\*SECNO 10.071

3265 DIVIDED FLOW

3280 CROSS SECTION 10.07 EXTENDED .63 FEET

3470 ENCROACHMENT STATIONS= 9170.0 12311.1 TYPE= 1 TARGET= 3141.100  
 10.071 7.93 1032.83 1031.25 .00 1033.25 .41 1.16 .01 1032.60  
 30000.0 95.8 26403.3 3500.9 58.8 4831.0 1948.1 11542.3 2846.0 1031.50  
 2.54 1.63 5.47 1.80 .050 .035 .050 .000 1024.90 9231.57  
 .002652 625. 475. 355. 2 15 0 .00 2994.69 12278.55

FLOW DISTRIBUTION FOR SECNO= 10.07 CWSEL= 1032.83

STA= 9232. 9290. 10511. 10853. 11470. 12179. 12279.  
 PER Q= .3 88.0 3.6 5.0 3.0 .0  
 AREA= 58.8 4831.0 525.2 813.4 588.9 20.6  
 VEL= 1.6 5.5 2.0 1.9 1.5 .7  
 DEPTH= 1.0 4.0 1.5 1.3 .8 .2

\*SECNO 10.167

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SECNO	DEPTH	CWSEL	CRISW	WSELK	EG	HV	HL	OLOSS	L-BANK ELEV
Q	QLOB	QCH	QROB	ALOB	ACH	AROB	VOL	TWA	R-BANK ELEV
TIME	VLOB	VCH	VROB	XNL	XNCH	XNR	WTN	ELMIN	SSTA
SLOPE	XLOBL	XLCH	XLOBR	ITRIAL	IDC	ICONT	CORAR	TOPWID	ENDST

3265 DIVIDED FLOW

3280 CROSS SECTION 10.17 EXTENDED .72 FEET

3470 ENCROACHMENT STATIONS= 9380.0 11989.1 TYPE= 1 TARGET= 2609.100  
 10.167 10.52 1033.82 1031.21 .00 1034.24 .42 .99 .00 1033.50  
 30000.0 6.3 27375.1 2618.6 11.2 5055.6 1910.9 11618.7 2874.5 1031.00  
 2.57 .57 5.41 1.37 .050 .035 .050 .000 1023.30 9380.00  
 .001534 575. 512. 400. 2 5 0 .00 2573.33 11977.56

FLOW DISTRIBUTION FOR SECNO= 10.17 CWSEL= 1033.82

STA= 9380. 9413. 10272. 10848. 11483. 11978.  
 PER Q= .0 91.3 3.2 3.1 2.4  
 AREA= 11.2 5055.6 687.3 705.0 518.6  
 VEL= .6 5.4 1.4 1.3 1.4  
 DEPTH= .3 5.9 1.2 1.1 1.0

\*SECNO 10.265

3265 DIVIDED FLOW

3280 CROSS SECTION 10.27 EXTENDED .09 FEET

3301 HV CHANGED MORE THAN HVINS

3302 WARNING: CONVEYANCE CHANGE OUTSIDE OF ACCEPTABLE RANGE, KRATIO = .61

3470 ENCROACHMENT STATIONS= 9550.0 11664.3 TYPE= 1 TARGET= 2114.300  
 10.265 8.08 1034.48 1033.19 .00 1035.66 1.18 1.19 .23 1032.90  
 30000.0 475.2 28423.4 1101.4 223.0 3184.6 579.7 11679.9 2897.2 1033.70  
 2.58 2.13 8.93 1.90 .050 .035 .050 .000 1026.40 9550.00  
 .004092 515. 512. 400. 2 14 0 .00 1915.23 11653.06

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SECNO	DEPTH	CWSEL	CRISW	WSELK	EG	HV	HL	OLOSS	L-BANK ELEV
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Effective Model Output  
AGUAFRIA.OUT

Q	QLOB	QCH	QROB	ALOB	ACH	AROB	VOL	TWA	R-BANK ELEV
TIME	VLOB	VCH	VROB	XNL	XNCH	XNR	WTN	ELMIN	SSTA
SLOPE	XLOBL	XLCH	XLOBR	ITRIAL	IDC	ICONT	CORAR	TOPWID	ENDST

FLOW DISTRIBUTION FOR SECNO= 10.27 CWSEL= 1034.48

STA=	9550.	9737.	10271.	11360.	11653.
PER Q=	1.6	94.7	3.0	.7	
AREA=	223.0	3184.6	468.8	111.0	
VEL=	2.1	8.9	1.9	1.8	
DEPTH=	1.2	6.0	.4	.4	

\*SECNO 10.343

3265 DIVIDED FLOW

3280 CROSS SECTION 10.34 EXTENDED 1.29 FEET

3470 ENCROACHMENT STATIONS=	9750.0	11416.0	TYPE=	1	TARGET=	1666.000			
10.343	9.89	1036.59	1034.85	.00	1037.31	.72	1.60	.05	1032.90
30000.0	762.7	24930.9	4306.4	157.2	3398.1	1584.4	11720.1	2910.8	1035.20
2.60	4.85	7.34	2.72	.050	.045	.050	.000	1026.70	9750.00
.003915	395.	411.	295.	2	5	0	.00	1641.25	11407.72

FLOW DISTRIBUTION FOR SECNO= 10.34 CWSEL= 1036.59

STA=	9750.	9782.	10289.	10842.	10989.	11092.	11388.	11408.
PER Q=	2.5	83.1	3.6	3.4	3.4	3.8	3.8	.1
AREA=	157.2	3398.1	556.0	324.8	279.5	405.2	18.8	
VEL=	4.9	7.3	2.0	3.2	3.6	2.8	1.9	
DEPTH=	4.9	6.7	1.0	2.2	2.7	1.4	1.0	

\*SECNO 10.442

3280 CROSS SECTION 10.44 EXTENDED 1.62 FEET

3470 ENCROACHMENT STATIONS=	9625.7	11448.0	TYPE=	1	TARGET=	1822.300			
10.442	9.12	1038.52	1036.33	.00	1038.92	.40	1.58	.03	1041.90
30000.0	.0	24172.2	5827.8	.0	4361.4	2294.2	11788.2	2929.9	1037.30
2.63	.00	5.54	2.54	.000	.045	.050	.000	1029.40	9632.42
.002480	465.	528.	455.	0	19	0	.00	1807.29	11439.71

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SECNO	DEPTH	CWSEL	CRISW	WSELK	EG	HV	HL	GLOSS	L-BANK ELEV
Q	QLOB	QCH	QROB	ALOB	ACH	AROB	VOL	TWA	R-BANK ELEV
TIME	VLOB	VCH	VROB	XNL	XNCH	XNR	WTN	ELMIN	SSTA
SLOPE	XLOBL	XLCH	XLOBR	ITRIAL	IDC	ICONT	CORAR	TOPWID	ENDST

FLOW DISTRIBUTION FOR SECNO= 10.44 CWSEL= 1038.52

STA=	9632.	10334.	10536.	10733.	10873.	11138.	11339.	11440.
PER Q=	80.6	3.1	4.4	3.2	3.8	4.0	1.0	
AREA=	4361.4	396.9	480.5	353.4	458.4	461.4	143.5	
VEL=	5.5	2.3	2.7	2.8	2.5	2.6	2.0	
DEPTH=	6.2	2.0	2.4	2.5	1.7	2.3	1.4	

\*SECNO 10.538

3280 CROSS SECTION 10.54 EXTENDED 2.85 FEET

3470 ENCROACHMENT STATIONS=	9514.9	11058.0	TYPE=	1	TARGET=	1543.100			
10.538	8.95	1039.65	1036.44	.00	1039.96	.31	1.03	.01	1035.00
30000.0	773.4	26835.1	2391.5	217.7	5755.2	1183.0	11869.1	2949.7	1037.90
2.66	3.55	4.66	2.02	.050	.045	.050	.000	1030.70	9528.27
.001693	460.	505.	530.	2	14	0	.00	1529.73	11058.00

FLOW DISTRIBUTION FOR SECNO= 10.54 CWSEL= 1039.65

STA=	9528.	9574.	10478.	10707.	11058.
PER Q=	2.6	89.5	4.1	3.9	
AREA=	217.7	5755.2	553.5	629.5	
VEL=	3.6	4.7	2.2	1.9	
DEPTH=	4.8	6.4	2.4	1.8	

\*SECNO 10.632

3280 CROSS SECTION 10.63 EXTENDED .50 FEET

3470 ENCROACHMENT STATIONS=	9414.6	10612.0	TYPE=	1	TARGET=	1197.400			
10.632	8.80	1040.50	1037.24	.00	1040.89	.39	.90	.02	1038.20
30000.0	523.7	29049.7	426.5	218.9	5735.0	270.3	11945.4	2965.2	1039.30
2.69	2.39	5.07	1.58	.050	.045	.050	.000	1031.70	9422.36
.001961	465.	496.	510.	2	14	0	.00	1189.63	10612.00

FLOW DISTRIBUTION FOR SECNO= 10.63 CWSEL= 1040.50

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SECNO	DEPTH	CWSEL	CRISW	WSELK	EG	HV	HL	CLOSS	L-BANK ELEV
Q	QLOB	QCH	QROB	ALOB	ACH	AROB	VOL	TWA	R-BANK ELEV
TIME	VLOB	VCH	VROB	XNL	XNCH	XNR	WTN	ELMIN	SSTA
SLOPE	XLOBL	XLCH	XLOBR	ITRIAL	IDC	ICONT	CORAR	TOPWID	ENDST

STA=	9422.	9434.	9459.	9514.	10402.	10435.	10612.		
PER Q=	.2	.8	.8	.8	.4	.4	1.1		
AREA=	28.9	78.7	111.3	5735.0	58.0	212.3			
VEL=	2.2	2.9	2.1	5.1	1.9	1.5			
DEPTH=	2.4	3.3	2.0	6.5	1.8	1.2			

\*SECNO 10.752

3470 ENCROACHMENT STATIONS=	9335.0	10329.9	TYPE=	1	TARGET=	994.900			
10.752	10.52	1041.82	1038.53	.00	1042.42	.61	1.47	.07	1041.00
30000.0	807.8	29192.2	.0	409.0	4619.2	.0	12026.5	2980.9	1042.80
2.72	1.98	6.32	.00	.050	.045	.000	.000	1031.30	9335.00
.002824	605.	629.	630.	2	12	0	.00	991.16	10326.16

FLOW DISTRIBUTION FOR SECNO= 10.75 CWSEL= 1041.82

STA=	9335.	9342.	9354.	9361.	9652.	10330.			
PER Q=	.1	.5	.1	2.0	97.3				
AREA=	13.4	40.5	15.6	339.5	4619.2				
VEL=	2.3	3.5	2.7	1.7	6.3				
DEPTH=	2.0	3.3	2.4	1.2	6.8				

\*SECNO 10.846

3280 CROSS SECTION 10.85 EXTENDED .96 FEET

3470 ENCROACHMENT STATIONS=	8855.0	10402.4	TYPE=	1	TARGET=	1547.400			
10.846	11.56	1043.16	1039.88	.00	1043.75	.58	1.32	.00	1039.00
30000.0	2450.7	27234.7	314.6	1134.3	4253.3	150.3	12087.3	2995.5	1042.90
2.74	2.16	6.40	2.09	.050	.045	.050	.000	1031.60	8855.00
.002481	510.	501.	480.	2	15	0	.00	1544.22	10399.22

FLOW DISTRIBUTION FOR SECNO= 10.85 CWSEL= 1043.16

STA=	8855.	9621.	9756.	10308.	10399.				
PER Q=	3.2	4.9	90.8	1.0					
AREA=	690.4	444.0	4253.3	150.3					
VEL=	1.4	3.3	6.4	2.1					
DEPTH=	.9	3.3	7.7	1.7					

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SECNO	DEPTH	CWSEL	CRISW	WSELK	EG	HV	HL	CLOSS	L-BANK ELEV
Q	QLOB	QCH	QROB	ALOB	ACH	AROB	VOL	TWA	R-BANK ELEV
TIME	VLOB	VCH	VROB	XNL	XNCH	XNR	WTN	ELMIN	SSTA
SLOPE	XLOBL	XLCH	XLOBR	ITRIAL	IDC	ICONT	CORAR	TOPWID	ENDST

\*SECNO 10.942

3265 DIVIDED FLOW

3470 ENCROACHMENT STATIONS=	9130.0	10627.0	TYPE=	1	TARGET=	1497.000			
10.942	10.13	1044.33	1040.09	.00	1044.73	.40	.96	.02	1041.00
30000.0	1153.2	28505.3	341.6	784.0	5503.8	313.8	12158.2	3013.3	1042.10
2.77	1.47	5.18	1.09	.050	.045	.095	.000	1034.20	9130.00
.001508	550.	504.	450.	2	8	0	.00	1416.65	10555.06

FLOW DISTRIBUTION FOR SECNO= 10.94 CWSEL= 1044.33

STA=	9130.	9678.	9702.	10379.	10555.				
PER Q=	3.4	.5	95.0	1.1					
AREA=	719.5	64.5	5503.8	313.8					
VEL=	1.4	2.2	5.2	1.1					
DEPTH=	1.3	2.6	8.1	1.8					

\*SECNO 11.029

3470 ENCROACHMENT STATIONS=	9240.0	10467.9	TYPE=	1	TARGET=	1227.900			
11.029	10.39	1045.09	1041.22	.00	1045.44	.35	.71	.00	1045.10
30000.0	.0	29864.7	135.3	.0	6244.8	122.3	12226.7	3025.8	1042.30
2.80	.00	4.78	1.11	.000	.045	.095	.000	1034.70	9513.14
.001568	485.	460.	415.	2	14	0	.00	946.80	10459.94

FLOW DISTRIBUTION FOR SECNO= 11.03 CWSEL= 1045.09

STA=	9513.	10404.	10423.	10450.	10460.				
------	-------	--------	--------	--------	--------	--	--	--	--

PER Q= 99.5 .2 .2 .0  
 AREA= 6244.8 54.2 60.4 7.7  
 VEL= 4.8 1.2 1.1 .5  
 DEPTH= 7.0 2.8 2.2 .8

\*SECNO 11.128

3470 ENCROACHMENT STATIONS= 9340.0 10398.5 TYPE= 1 TARGET= 1058.500  
 11.128 10.55 1045.95 1042.42 .00 1046.28 .32 .83 .00 1038.70  
 30000.0 5241.2 24702.6 56.2 1216.2 5334.0 76.4 12305.1 3037.8 1045.40  
 2.83 4.31 4.63 .74 .050 .045 .095 .000 1035.40 9340.00  
 .001597 535. 525. 500. 2 18 0 .00 1044.79 10384.79

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SECNO	DEPTH	CWSEL	CRISW	WSELK	EG	HV	HL	OLOSS	L-BANK ELEV
Q	QLOB	QCH	QROB	ALOB	ACH	AROB	VOL	TWA	R-BANK ELEV
TIME	VLOB	VCH	VROB	XNL	XNCH	XNR	WTN	ELMIN	SSTA
SLOPE	XLOBL	XLCH	XLOBR	ITRIAL	IDC	ICONT	CORAR	TOPWID	ENDST

FLOW DISTRIBUTION FOR SECNO= 11.13 CWSEL= 1045.95

STA= 9340. 9341. 9366. 9388. 9515. 10325. 10367. 10385.  
 PER Q= .0 2.9 2.3 12.2 82.3 .1 .0  
 AREA= 7.0 188.3 159.2 861.8 5334.0 57.2 19.2  
 VEL= 1.1 4.5 4.4 4.3 4.6 .8 .7  
 DEPTH= 7.0 7.5 7.2 6.8 6.6 1.4 1.1

\*SECNO 11.224

3470 ENCROACHMENT STATIONS= 9450.0 10350.0 TYPE= 1 TARGET= 900.000  
 11.224 8.72 1046.82 1043.75 .00 1047.33 .51 1.00 .06 1041.90  
 30000.0 5502.5 24437.7 59.8 1134.5 4124.5 58.3 12373.6 3048.8 1046.50  
 2.85 4.85 5.92 1.03 .050 .045 .095 .000 1038.10 9450.00  
 .002585 470. 507. 535. 2 11 0 .00 862.29 10312.29

FLOW DISTRIBUTION FOR SECNO= 11.22 CWSEL= 1046.82

STA= 9450. 9640. 10262. 10289. 10300. 10312.  
 PER Q= 18.3 81.5 .0 .1 .1  
 AREA= 1134.5 4124.5 14.3 22.6 21.4  
 VEL= 4.9 5.9 .5 1.3 1.1  
 DEPTH= 6.0 6.6 .5 2.1 1.7

\*SECNO 11.325

3265 DIVIDED FLOW

3301 HV CHANGED MORE THAN HVINS

3302 WARNING: CONVEYANCE CHANGE OUTSIDE OF ACCEPTABLE RANGE, KRATIO = .55

3470 ENCROACHMENT STATIONS= 9570.0 10784.1 TYPE= 1 TARGET= 1214.100  
 11.325 8.90 1048.30 1047.22 .00 1049.96 1.66 2.28 .34 1048.20  
 30000.0 830.2 28972.0 197.7 199.1 2760.7 85.4 12423.9 3057.7 1046.20  
 2.87 4.17 10.49 2.31 .050 .045 .095 .000 1039.40 9570.00  
 .008668 480. 532. 575. 3 11 0 .00 617.64 10244.31

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SECNO	DEPTH	CWSEL	CRISW	WSELK	EG	HV	HL	OLOSS	L-BANK ELEV
Q	QLOB	QCH	QROB	ALOB	ACH	AROB	VOL	TWA	R-BANK ELEV
TIME	VLOB	VCH	VROB	XNL	XNCH	XNR	WTN	ELMIN	SSTA
SLOPE	XLOBL	XLCH	XLOBR	ITRIAL	IDC	ICONT	CORAR	TOPWID	ENDST

FLOW DISTRIBUTION FOR SECNO= 11.32 CWSEL= 1048.30

STA= 9570. 9585. 9599. 9722. 9748. 10184. 10196. 10208. 10223. 10244.  
 PER Q= 1.2 .3 1.1 .2 96.6 .3 .2 .1 .0  
 AREA= 61.8 24.7 92.0 20.6 2760.7 33.6 28.5 12.9 10.5  
 VEL= 5.9 4.0 3.4 2.4 10.5 3.0 2.5 1.3 .9  
 DEPTH= 4.0 1.8 .7 .8 6.3 3.0 2.3 .8 .5

CCHV= .300 CEHV= .500

\*SECNO 11.410

3301 HV CHANGED MORE THAN HVINS

3302 WARNING: CONVEYANCE CHANGE OUTSIDE OF ACCEPTABLE RANGE, KRATIO = 1.60

3470 ENCROACHMENT STATIONS= 9640.0 10253.1 TYPE= 1 TARGET= 613.100

```
*****
**** GLENDALE ROAD *****
**** LOW CHORD = 1057.5 ****
*****
11.410   9.91  1051.71  1048.76   .00  1052.52   .81   2.31   .25  1056.60
30000.0   .0  29914.5   85.5     .0  4129.0   40.7  12461.2  3063.8  1045.50
2.88     .00   7.25   2.10   .000  .045   .095   .000  1041.80  9650.66
.003398  330.  451.   580.    3     15     0     .00   577.29  10227.95
```

FLOW DISTRIBUTION FOR SECNO= 11.41 CWSEL= 1051.71

```
STA= 9651. 10214. 10219. 10222. 10226. 10228.
PER Q= 99.7 .2 .1 .0 .0
AREA= 4129.0 23.5 10.1 6.1 .9
VEL= 7.2 2.5 1.8 1.2 .5
DEPTH= 7.3 5.1 3.2 1.6 .5
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SECNO	DEPTH	CWSEL	CRISW	WSELK	EG	HV	HL	OLOSS	L-BANK ELEV
Q	QLOB	QCH	QROB	ALOB	ACH	AROB	VOL	TWA	R-BANK ELEV
TIME	VLOB	VCH	VROB	XNL	XNCH	XNR	WTN	ELMIN	SSTA
SLOPE	XLOBL	XLCH	XLOBR	ITRIAL	IDC	ICONT	CORAR	TOPWID	ENDST

SPECIAL BRIDGE

```
SB XK   XKOR   COFQ   RDLEN   BWC   BWP   BAREA   SS   ELCHU   ELCHD
1.05  1.56  2.70   .00  535.00  15.00  7069.00  1.50  1044.40  1044.40
```

\*SECNO 11.428  
BTCARD, BRIDGE STENCL= 9600.00 STENCR= 10253.10

3301 HV CHANGED MORE THAN HVINS

CLASS A LOW FLOW

3420 BRIDGE W.S.= 1051.65 BRIDGE VELOCITY= 7.80 CALCULATED CHANNEL AREA= 3846.

EGPRS	EGLWC	H3	QWEIR	QLOW	BAREA	TRAPEZOID AREA	ELLC	ELTRD	WEIRLN
.00	1053.12	.07	0.	30000.	7069.	7069.	1057.50	1065.40	0.

```
3470 ENCROACHMENT STATIONS= 9600.0 10253.1 TYPE= 1 TARGET= 653.100
11.428 9.98 1051.78 .00 .00 1053.12 1.33 .59 .00 1049.80
30000.0 1025.5 28974.5 .0 332.8 3078.5 .0 12473.8 3065.7 1060.10
2.89 3.08 9.41 .00 .050 .045 .000 .000 1041.80 9625.44
.004996 145. 145. 145. 0 0 0 .00 566.42 10191.85
```

FLOW DISTRIBUTION FOR SECNO= 11.43 CWSEL= 1051.78

```
STA= 9625. 9632. 9641. 9714. 9725. 9750. 9764. 9787. 9795. 9814. 10227.
PER Q= .0 .2 1.4 .2 .5 .3 .4 .1 .4 96.6
AREA= 6.0 15.0 131.3 19.3 44.6 24.6 41.2 14.1 36.6 3078.5
VEL= 1.9 3.1 3.1 3.1 3.1 3.1 3.1 3.1 3.2 9.4
DEPTH= .9 1.8 1.8 1.8 1.8 1.8 1.8 1.8 1.9 8.2
```

\*SECNO 11.460

3301 HV CHANGED MORE THAN HVINS

```
3470 ENCROACHMENT STATIONS= 9515.0 10610.0 TYPE= 1 TARGET= 1095.000
11.460 25.05 1052.25 1050.79 .00 1054.21 1.96 .78 .31 1052.00
34500.0 721.6 33647.0 131.4 647.8 2956.2 41.5 12487.3 3068.1 1046.80
2.89 1.11 11.38 3.17 .150 .035 .055 .000 1027.20 9527.60
.004444 165. 167. 165. 2 21 0 .00 685.31 10212.91
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SECNO	DEPTH	CWSEL	CRISW	WSELK	EG	HV	HL	OLOSS	L-BANK ELEV
Q	QLOB	QCH	QROB	ALOB	ACH	AROB	VOL	TWA	R-BANK ELEV
TIME	VLOB	VCH	VROB	XNL	XNCH	XNR	WTN	ELMIN	SSTA
SLOPE	XLOBL	XLCH	XLOBR	ITRIAL	IDC	ICONT	CORAR	TOPWID	BNDST

FLOW DISTRIBUTION FOR SECNO= 11.46 CWSEL= 1052.25

```
STA= 9528. 9543. 9570. 9688. 9812. 9829. 10194. 10197. 10213.
PER Q= .1 .2 .9 .9 .0 97.5 .2 .2
AREA= 20.8 60.1 266.3 278.4 22.2 2956.2 15.0 26.5
VEL= .9 1.1 1.1 1.1 .8 11.4 4.3 2.5
DEPTH= 1.3 2.3 2.3 2.3 1.3 8.1 4.4 1.7
```

\*SECNO 11.557

3470 ENCROACHMENT STATIONS= 8970.0 10122.1 TYPE= 1 TARGET= 1152.100  
 11.557 31.64 1054.44 1053.33 .00 1056.49 2.05 2.23 .04 1051.20  
 34500.0 7048.9 27451.1 .0 4039.4 2135.7 .0 12544.8 3078.7 1058.90  
 2.91 1.75 12.85 .00 .150 .035 .000 .000 1022.80 8970.00  
 .004289 510. 511. 510. 3 11 0 .00 1122.12 10092.12

FLOW DISTRIBUTION FOR SECNO= 11.56 CWSEL= 1054.44

STA= 8970. 9126. 9260. 9410. 9550. 9702. 9845. 9882. 10101.  
 PER Q= 3.5 3.0 3.4 3.2 3.4 3.2 .8 79.6  
 AREA= 694.0 591.5 668.7 620.8 671.4 636.3 156.8 2135.7  
 VEL= 1.7 1.8 1.8 1.8 1.8 1.8 1.7 12.9  
 DEPTH= 4.4 4.4 4.4 4.4 4.4 4.4 4.3 10.1

\*SECNO 11.653

3265 DIVIDED FLOW

3301 HV CHANGED MORE THAN HVINS

3470 ENCROACHMENT STATIONS= 8420.0 10245.0 TYPE= 1 TARGET= 1825.000  
 11.653 35.11 1057.21 1055.48 .00 1058.45 1.23 1.72 .24 1057.30  
 34500.0 10401.5 24098.5 .0 6983.9 2268.1 .0 12635.1 3095.1 1058.00  
 2.92 1.49 10.62 .00 .150 .035 .000 .000 1022.10 8420.00  
 .002715 510. 509. 510. 3 9 0 .00 1678.23 10120.01

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SECNO	DEPTH	CWSEL	CRINS	WSELK	EG	HV	HL	OLOSS	L-BANK ELEV
Q	QLOB	QCH	QROB	ALOB	ACH	AROB	VOL	TWA	R-BANK ELEV
TIME	VLOB	VCH	VROB	XNL	XNCH	XNR	WTN	ELMIN	SSTA
SLOPE	XLOBL	XLCH	XLOBR	ITRIAL	IDC	ICONT	CORAR	TOPWID	ENDST

FLOW DISTRIBUTION FOR SECNO= 11.65 CWSEL= 1057.21

STA= 8420. 8599. 8746. 8944. 9077. 9223. 9377. 9529. 9827. 9908. 10123.  
 PER Q= 4.1 3.2 4.6 3.1 3.4 3.6 3.6 3.4 1.1 69.9  
 AREA= 932.5 727.1 1033.6 694.3 757.8 805.8 790.2 942.8 300.0 2268.1  
 VEL= 1.5 1.5 1.6 1.6 1.6 1.6 1.6 1.2 1.3 10.6  
 DEPTH= 5.2 4.9 5.2 5.2 5.2 5.2 5.2 3.2 3.7 10.7

\*SECNO 11.750

3265 DIVIDED FLOW

3301 HV CHANGED MORE THAN HVINS

3470 ENCROACHMENT STATIONS= 7870.0 10170.0 TYPE= 1 TARGET= 2300.000  
 11.750 36.56 1058.46 1057.59 .00 1060.35 1.89 1.57 .33 1061.00  
 34500.0 7184.5 27250.3 65.2 5223.4 2196.3 33.6 12732.9 3117.1 1056.10  
 2.94 1.38 12.41 1.94 .150 .035 .055 .000 1021.90 7870.00  
 .003530 510. 511. 510. 2 9 0 .00 2086.93 10133.45

FLOW DISTRIBUTION FOR SECNO= 11.75 CWSEL= 1058.46

STA= 7870. 8069. 8497. 8659. 8833. 8983. 9433. 9896. 10107. 10133.  
 PER Q= 3.0 3.0 3.2 3.6 3.1 3.1 1.8 79.0 .2  
 AREA= 707.6 828.1 705.1 775.0 669.7 811.0 727.0 2196.3 33.6  
 VEL= 1.5 1.3 1.6 1.6 1.6 1.3 .9 12.4 1.9  
 DEPTH= 3.6 1.9 4.3 4.5 4.5 1.8 1.6 11.1 1.3

\*SECNO 11.847

3265 DIVIDED FLOW

3301 HV CHANGED MORE THAN HVINS

3302 WARNING: CONVEYANCE CHANGE OUTSIDE OF ACCEPTABLE RANGE, KRATIO = 1.50

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SECNO	DEPTH	CWSEL	CRINS	WSELK	EG	HV	HL	OLOSS	L-BANK ELEV
Q	QLOB	QCH	QROB	ALOB	ACH	AROB	VOL	TWA	R-BANK ELEV
TIME	VLOB	VCH	VROB	XNL	XNCH	XNR	WTN	ELMIN	SSTA
SLOPE	XLOBL	XLCH	XLOBR	ITRIAL	IDC	ICONT	CORAR	TOPWID	ENDST

3470 ENCROACHMENT STATIONS= 7310.0 10173.0 TYPE= 1 TARGET= 2863.000  
 11.847 40.65 1060.95 1058.69 .00 1061.81 .86 1.15 .31 1063.40

34500.0 11206.1 22915.2 378.6 10666.5 2513.1 130.5 12854.6 3145.9 1052.10  
 2.96 1.05 9.12 2.90 .150 .035 .055 .000 1020.30 7310.00  
 .001562 510. 512. 510. 3 9 0 .00 2826.52 10147.92

FLOW DISTRIBUTION FOR SECNO= 11.85 CWSEL= 1060.95

STA= 7310. 7557. 7741. 7963. 8333. 8592. 8792. 8993. 9243. 9804. 9908. 10113. 10148.  
 PER Q= 4.0 3.0 3.2 3.3 4.2 3.2 3.3 3.9 3.1 1.3 66.4 1.1  
 AREA= 1230.4 911.1 1023.0 1189.0 1280.9 985.2 997.6 1195.0 1421.9 432.3 2513.1 130.5  
 VEL= 1.1 1.1 1.1 .9 1.1 1.1 1.1 1.1 .7 1.0 9.1 2.9  
 DEPTH= 5.0 4.9 4.6 3.2 4.9 4.9 4.9 4.8 2.5 4.2 12.9 3.8

\*SECNO 11.900

3265 DIVIDED FLOW

3301 HV CHANGED MORE THAN HVINS

3470 ENCROACHMENT STATIONS= 6880.0 10198.5 TYPE= 1 TARGET= 3318.500  
 11.900 15.92 1061.12 1060.38 .00 1062.82 1.70 .59 .42 1064.40  
 34500.0 6198.4 27907.0 394.6 5990.7 2405.2 150.6 12935.9 3167.2 1058.50  
 2.97 1.03 11.60 2.62 .150 .035 .055 .000 1045.20 6880.00  
 .002770 340. 273. 275. 3 19 0 .00 2732.91 10156.61

FLOW DISTRIBUTION FOR SECNO= 11.90 CWSEL= 1061.12

STA= 6880. 7198. 7581. 8069. 8654. 8973. 9877. 10093. 10157.  
 PER Q= 3.2 3.0 3.0 3.9 3.2 1.6 80.9 1.1  
 AREA= 994.1 985.6 1000.0 1235.5 996.9 778.6 2405.2 150.6  
 VEL= 1.1 1.1 1.0 1.1 1.1 .7 11.6 2.6  
 DEPTH= 3.1 2.6 2.1 2.1 3.1 .9 12.2 2.4

\*SECNO 11.943

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SECNO	DEPTH	CWSEL	CRISWS	WSELK	EG	HV	HL	OLOSS	L-BANK ELEV
Q	QLOB	QCH	QROB	ALOB	ACH	AROB	VOL	TWA	R-BANK ELEV
TIME	VLOB	VCH	VROB	XNL	XNCH	XNR	WTN	ELMIN	SSTA
SLOPE	XLOBL	XLCH	XLOBR	ITRIAL	IDC	ICONT	CORAR	TOPWID	ENDST

3265 DIVIDED FLOW

3301 HV CHANGED MORE THAN HVINS

3470 ENCROACHMENT STATIONS= 6800.0 10182.0 TYPE= 1 TARGET= 3382.000  
 11.943 33.33 1062.73 1060.65 .00 1063.52 .79 .43 .27 1067.50  
 34500.0 12590.1 21590.4 319.5 12096.4 2403.9 115.5 12980.8 3177.8 1054.60  
 2.98 1.04 8.98 2.76 .150 .035 .055 .000 1029.40 6800.00  
 .001544 150. 236. 235. 4 21 0 .00 3137.64 10120.03

FLOW DISTRIBUTION FOR SECNO= 11.94 CWSEL= 1062.73

STA= 6800. 7035. 7354. 7642. 7853. 8097. 8297. 8595. 8905. 9136. 9870. 10085. 10120.  
 PER Q= 3.6 4.8 3.2 3.2 3.7 3.0 4.5 4.7 3.4 2.6 62.6 .9  
 AREA= 1126.0 1507.0 1124.6 1000.1 1152.7 944.8 1407.3 1464.0 1078.0 1291.9 2403.9 115.5  
 VEL= 1.1 1.1 1.0 1.1 1.1 1.1 1.1 1.1 1.1 1.1 .7 9.0 2.8  
 DEPTH= 4.8 4.7 3.9 4.7 4.7 4.7 4.7 4.7 4.7 4.7 1.8 12.7 3.3

\*SECNO 12.042

3470 ENCROACHMENT STATIONS= 6350.0 10165.0 TYPE= 1 TARGET= 3815.000  
 12.042 15.47 1063.97 1061.28 .00 1064.31 .34 .65 .14 1063.00  
 34500.0 20161.4 14311.7 26.9 19635.3 1996.0 30.7 13190.0 3217.4 1062.00  
 3.02 1.03 7.17 .88 .150 .035 .055 .000 1048.50 6350.00  
 .001081 500. 520. 540. 2 16 0 .00 3751.17 10101.17

FLOW DISTRIBUTION FOR SECNO= 12.04 CWSEL= 1063.97

STA= 6350. 8556. 8806. 8999. 9181. 9367. 9668. 9840. 9903. 10070. 10101.  
 PER Q= 38.6 3.1 3.4 3.2 3.1 3.6 3.0 .5 41.5 .1  
 AREA= 12723.9 1149.0 1112.2 1051.7 1036.0 1345.3 995.7 221.4 1996.0 30.7  
 VEL= 1.0 .9 1.0 1.0 1.0 .9 1.0 .8 7.2 .9  
 DEPTH= 5.8 4.6 5.8 5.8 5.6 4.5 5.8 3.5 12.0 1.0

\*SECNO 12.141

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SECNO	DEPTH	CWSEL	CRISWS	WSELK	EG	HV	HL	OLOSS	L-BANK ELEV
Q	QLOB	QCH	QROB	ALOB	ACH	AROB	VOL	TWA	R-BANK ELEV
TIME	VLOB	VCH	VROB	XNL	XNCH	XNR	WTN	ELMIN	SSTA
SLOPE	XLOBL	XLCH	XLOBR	ITRIAL	IDC	ICONT	CORAR	TOPWID	ENDST

3265 DIVIDED FLOW

12.141	15.33	1064.63	1061.67	.00	1064.87	.24	.53	.03	1062.90
34500.0	22821.6	11678.4	.0	22055.5	1755.9	.0	13457.0	3261.8	1066.00
3.07	1.03	6.65	.00	.150	.035	.000	.000	1049.30	6195.39
.000983	510.	526.	535.	2	14	0	.00	3820.05	10073.80

FLOW DISTRIBUTION FOR SECNO= 12.14 CWSEL= 1064.63

STA=	6195.	8718.	8894.	9204.	9395.	9598.	9783.	9923.	10076.
PER Q=	47.6	3.3	3.2	3.3	3.9	3.3	1.6	33.9	
AREA=	15643.0	1098.4	1199.9	1111.0	1264.1	1106.2	632.8	1755.9	
VEL=	1.0	1.1	.9	1.0	1.1	1.0	.9	6.7	
DEPTH=	6.2	6.2	3.9	5.8	6.2	6.0	4.5	11.7	

\*SECNO 12.247

12.247	14.51	1065.21	1061.63	.00	1065.39	.17	.49	.02	1062.60
34500.0	23877.1	10622.9	.0	23002.1	1824.1	.0	13743.8	3306.2	1066.00
3.13	1.04	5.82	.00	.150	.035	.000	.000	1050.70	6360.03
.000899	510.	560.	565.	2	13	0	.00	3722.30	10082.33

FLOW DISTRIBUTION FOR SECNO= 12.25 CWSEL= 1065.21

STA=	6360.	6587.	6778.	6966.	9628.	9796.	9899.	10086.
PER Q=	4.3	3.8	3.2	53.4	3.2	1.2	30.8	
AREA=	1445.4	1258.3	1115.9	17600.0	1085.6	496.9	1824.1	
VEL=	1.0	1.0	1.0	1.0	1.0	.9	5.8	
DEPTH=	6.4	6.6	5.9	6.6	6.4	4.9	9.9	

\*SECNO 12.359

12.359	13.86	1065.56	1060.88	.00	1065.74	.19	.35	.01	1065.30
34500.0	15253.7	18800.3	446.0	19697.9	4048.1	206.6	14029.7	3348.0	1054.70
3.18	.77	4.64	2.16	.150	.035	.055	.000	1051.70	6629.96
.000496	500.	586.	580.	2	11	0	.00	3463.94	10093.90

FLOW DISTRIBUTION FOR SECNO= 12.36 CWSEL= 1065.56

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SECNO	DEPTH	CWSEL	CRISWS	WSELK	EG	HV	HL	OLOSS	L-BANK ELEV
Q	QLOB	QCH	QROB	ALOB	ACH	AROB	VOL	TWA	R-BANK ELEV
TIME	VLOB	VCH	VROB	XNL	XNCH	XNR	WTN	ELMIN	SSTA
SLOPE	XLOBL	XLCH	XLOBR	ITRIAL	IDC	ICONT	CORAR	TOPWID	ENDST

STA=	6630.	6857.	7092.	7342.	8875.	9179.	9379.	9582.	9692.	10061.	10094.
PER Q=	3.0	3.6	3.3	23.7	3.0	3.1	3.1	1.3	54.5	1.3	
AREA=	1384.7	1590.4	1538.0	10354.8	1489.5	1353.3	1370.2	617.0	4048.1	206.6	
VEL=	.8	.8	.7	.8	.7	.8	.8	.7	4.6	2.2	
DEPTH=	6.1	6.8	6.2	6.8	4.9	6.8	6.8	5.6	11.0	6.3	

\*SECNO 12.420

3265 DIVIDED FLOW

3470 ENCROACHMENT STATIONS=	7000.0	10782.8	TYPE=	1	TARGET=	3782.800
12.420	11.74	1065.74	1059.41	.00	1065.89	.15
34500.0	3811.6	30444.4	244.0	6825.1	9140.5	253.0
3.21	.56	3.33	.96	.150	.035	.055
.000365	380.	302.	270.	2	18	0

FLOW DISTRIBUTION FOR SECNO= 12.42 CWSEL= 1065.74

STA=	7000.	7606.	7929.	8388.	9014.	10111.	10232.
PER Q=	3.4	3.1	3.8	.8	88.2	.7	
AREA=	1991.8	1785.0	2300.6	747.8	9140.5	253.0	
VEL=	.6	.6	.6	.4	3.3	1.0	
DEPTH=	3.3	5.5	5.0	1.2	8.3	2.1	

CCHV= .100 CEHV= .300

\*SECNO 12.470

3265 DIVIDED FLOW

3470 ENCROACHMENT STATIONS=	7298.5	11052.3	TYPE=	1	TARGET=	3753.800
12.470	10.94	1065.84	1062.20	.00	1066.01	.18
34500.0	9672.3	24798.0	29.7	4796.6	6557.9	45.4
3.23	2.02	3.78	.65	.045	.035	.040
.000580	230.	255.	240.	0	15	0

FLOW DISTRIBUTION FOR SECNO= 12.47 CWSEL= 1065.84

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SECNO	DEPTH	CWSEL	CRISW	WSELK	EG	HV	HL	OLOSS	L-BANK ELEV
Q	QLOB	QCH	QROB	ALOB	ACH	AROB	VOL	TWA	R-BANK ELEV
TIME	VLOB	VCH	VROB	XNL	XNCH	XNR	WTN	ELMIN	SSTA
SLOPE	XLOBL	XLCH	XLOBR	ITRIAL	IDC	ICONT	CORAR	TOPWID	ENDST

STA= 7366. 7653. 7780. 8135. 8437. 8555. 9382. 10296. 10379.  
 PER Q= 4.8 3.3 5.2 8.7 3.8 2.3 71.9 .1  
 AREA= 791.7 538.9 1026.9 1361.9 572.4 504.9 6557.9 45.4  
 VEL= 2.1 2.1 1.8 2.2 2.3 1.5 3.8 .7  
 DEPTH= 2.8 4.3 2.9 4.5 4.8 .6 7.2 .5

\*SECNO 12.529

3265 DIVIDED FLOW

3470 ENCROACHMENT STATIONS= 7465.8 10393.3 TYPE= 1 TARGET= 2927.500  
 12.529 9.89 1065.99 1062.16 .00 1066.22 .23 .19 .02 1062.10  
 34500.0 7294.4 27078.4 127.3 3748.2 6400.8 70.6 14342.5 3405.0 1060.50  
 3.25 1.95 4.23 1.80 .045 .035 .040 .000 1056.10 7547.27  
 .000632 210. 345. 390. 0 11 0 .00 2180.77 10388.06

FLOW DISTRIBUTION FOR SECNO= 12.53 CWSEL= 1065.99

STA= 7547. 7775. 7886. 8325. 8475. 8625. 9552. 10362. 10388.  
 PER Q= 3.3 3.2 3.6 4.2 4.4 2.5 78.5 .4  
 AREA= 564.5 489.0 875.8 657.6 672.6 488.7 6400.8 70.6  
 VEL= 2.0 2.2 1.4 2.2 2.3 1.7 4.2 1.8  
 DEPTH= 2.5 4.4 2.0 4.4 4.5 .5 7.9 2.7

\*SECNO 12.630

3265 DIVIDED FLOW

3470 ENCROACHMENT STATIONS= 8085.7 10770.0 TYPE= 1 TARGET= 2684.300  
 12.630 10.45 1066.35 1063.19 .00 1066.61 .27 .38 .01 1061.30  
 34500.0 4685.4 25202.9 4611.7 2235.0 5492.0 1581.9 14461.4 3430.1 1061.90  
 3.29 2.10 4.59 2.92 .045 .035 .040 .000 1055.90 8093.08  
 .000832 520. 533. 550. 2 19 0 .00 1967.20 10755.30

FLOW DISTRIBUTION FOR SECNO= 12.63 CWSEL= 1066.35

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SECNO	DEPTH	CWSEL	CRISW	WSELK	EG	HV	HL	OLOSS	L-BANK ELEV
Q	QLOB	QCH	QROB	ALOB	ACH	AROB	VOL	TWA	R-BANK ELEV
TIME	VLOB	VCH	VROB	XNL	XNCH	XNR	WTN	ELMIN	SSTA
SLOPE	XLOBL	XLCH	XLOBR	ITRIAL	IDC	ICONT	CORAR	TOPWID	ENDST

STA= 8093. 8208. 8583. 8705. 8850. 9640. 10397. 10582. 10648. 10732. 10755.  
 PER Q= 3.1 3.4 3.3 3.2 .6 73.1 6.9 3.0 3.2 .3  
 AREA= 445.2 676.7 478.5 496.5 138.2 5492.0 822.5 332.8 376.3 50.4  
 VEL= 2.4 1.8 2.4 2.2 1.5 4.6 2.9 3.1 2.9 1.8  
 DEPTH= 3.9 1.8 3.9 3.4 .2 7.3 4.4 5.0 4.5 2.2

\*SECNO 12.725

3265 DIVIDED FLOW

3302 WARNING: CONVEYANCE CHANGE OUTSIDE OF ACCEPTABLE RANGE, KRATIO = .64

3470 ENCROACHMENT STATIONS= 8342.9 10654.0 TYPE= 1 TARGET= 2311.100  
 12.725 19.91 1066.71 1064.47 .00 1067.33 .63 .61 .11 1065.40  
 34500.0 1155.2 31089.8 2254.9 620.5 4699.6 663.8 14549.3 3450.3 1063.30  
 3.31 1.86 6.62 3.40 .045 .035 .040 .000 1046.80 8504.69  
 .002006 530. 500. 470. 0 24 0 .00 1503.27 10634.65

FLOW DISTRIBUTION FOR SECNO= 12.73 CWSEL= 1066.71

STA= 8505. 8962. 9682. 10404. 10623. 10635.  
 PER Q= 3.0 .3 90.1 6.5 .1  
 AREA= 538.2 82.3 4699.6 648.8 15.0  
 VEL= 1.9 1.4 6.6 3.4 1.9  
 DEPTH= 1.2 .1 6.5 3.0 1.3

\*SECNO 12.816

3265 DIVIDED FLOW

3470 ENCROACHMENT STATIONS= 8483.3 10488.0 TYPE= 1 TARGET= 2004.700  
 12.816 25.99 1067.59 1065.31 .00 1068.56 .97 1.12 .10 1063.60

34500.0	235.8	32922.8	1341.4	173.6	4090.0	310.1	14607.6	3464.2	1064.10
3.33	1.36	8.05	4.33	.045	.035	.040	.000	1041.60	8544.21
.002759	520.	482.	440.	2	11	0	.00	970.49	10473.14

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SECNO	DEPTH	CWSEL	CRISWS	WSELK	EG	HV	HL	OLOSS	L-BANK ELEV
Q	QLOB	QCH	QROB	ALOB	ACH	AROB	VOL	TWA	R-BANK ELEV
TIME	VLOB	VCH	VROB	XNL	XNCH	XNR	WTN	ELMIN	SSTA
SLOPE	XLOBL	XLCH	XLOBR	ITRIAL	IDC	ICONT	CORAR	TOPWID	ENDST

FLOW DISTRIBUTION FOR SECNO= 12.82 CWSEL= 1067.59

STA=	8544.	8570.	8605.	8926.	9018.	9781.	10376.	10426.	10464.	10473.
PER Q=	.0	.0	.3	.2	.1	.1	95.4	2.3	1.5	.1
AREA=	8.7	6.8	83.8	59.3	15.0	4090.0	177.3	120.2	12.6	
VEL=	.8	.8	1.3	1.3	2.5	8.0	4.5	4.2	2.4	
DEPTH=	.3	.2	.3	.6	.0	6.9	3.5	3.2	1.4	

\*SECNO 12.913

3265 DIVIDED FLOW

3470 ENCROACHMENT STATIONS=	8680.0	10318.0	TYPE=	1	TARGET=	1638.000			
12.913	29.29	1068.99	1066.76	.00	1070.17	1.18	1.55	.06	1071.20
34500.0	168.0	34170.9	161.1	149.2	3896.8	40.9	14658.7	3475.5	1063.70
3.34	1.13	8.77	3.94	.045	.035	.040	.000	1039.70	8907.29
.003314	510.	513.	535.	2	9	0	.00	952.33	10301.15

FLOW DISTRIBUTION FOR SECNO= 12.91 CWSEL= 1068.99

STA=	8907.	8915.	8974.	9037.	9222.	9356.	10286.	10301.
PER Q=	.0	.2	.1	.2	.0	.0	99.0	.5
AREA=	4.3	40.7	30.6	63.9	9.8	3896.8	40.9	
VEL=	1.3	1.5	1.2	.9	.6	8.8	3.9	
DEPTH=	.5	.7	.5	.3	.1	6.8	2.6	

\*SECNO 13.007

3265 DIVIDED FLOW

3301 HV CHANGED MORE THAN HVINS

3470 ENCROACHMENT STATIONS=	8750.0	10239.0	TYPE=	1	TARGET=	1489.000			
13.007	8.43	1070.43	1068.71	.00	1072.21	1.78	1.86	.18	1072.30
34500.0	3.0	33732.7	764.3	6.4	3127.9	123.1	14700.3	3483.8	1062.00
3.36	.47	10.78	6.21	.045	.035	.040	.000	1062.00	8846.44
.004322	490.	494.	495.	2	17	0	.00	513.10	10215.30

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SECNO	DEPTH	CWSEL	CRISWS	WSELK	EG	HV	HL	OLOSS	L-BANK ELEV
Q	QLOB	QCH	QROB	ALOB	ACH	AROB	VOL	TWA	R-BANK ELEV
TIME	VLOB	VCH	VROB	XNL	XNCH	XNR	WTN	ELMIN	SSTA
SLOPE	XLOBL	XLCH	XLOBR	ITRIAL	IDC	ICONT	CORAR	TOPWID	ENDST

FLOW DISTRIBUTION FOR SECNO= 13.01 CWSEL= 1070.43

STA=	8846.	9296.	10186.	10215.
PER Q=	.0	97.8	2.2	
AREA=	6.4	3127.9	123.1	
VEL=	.5	10.8	6.2	
DEPTH=	.0	7.6	4.2	

\*SECNO 13.103

3301 HV CHANGED MORE THAN HVINS

3302 WARNING: CONVEYANCE CHANGE OUTSIDE OF ACCEPTABLE RANGE, KRATIO = 1.63

3470 ENCROACHMENT STATIONS=	8600.0	10342.0	TYPE=	1	TARGET=	1742.000			
13.103	10.23	1072.73	1068.82	.00	1073.57	.84	1.26	.09	1071.60
34500.0	1162.3	33329.2	8.5	904.0	4465.5	6.0	14750.3	3495.9	1070.80
3.38	1.29	7.46	1.42	.045	.035	.040	.000	1062.50	8751.98
.001623	505.	505.	515.	2	15	0	.00	1572.65	10324.63

FLOW DISTRIBUTION FOR SECNO= 13.10 CWSEL= 1072.73

STA=	8752.	9823.	9830.	10318.	10325.
PER Q=	3.3	.0	96.6	.0	

AREA= 896.4 7.4 4465.5 6.0  
VEL= 1.3 1.4 7.5 1.4  
DEPTH= .8 1.0 9.2 1.0

\*SECNO 13.200

3265 DIVIDED FLOW

3470 ENCROACHMENT STATIONS= 9150.0 10419.0 TYPE= 1 TARGET= 1269.000  
13.200 10.63 1073.63 1068.35 .00 1074.23 .60 .64 .02 1071.70  
34500.0 482.8 33344.8 672.5 410.6 5285.7 218.4 14816.7 3511.0 1063.00  
3.40 1.18 6.31 3.08 .045 .035 .045 .000 1063.00 9245.83  
.000978 510. 513. 515. 2 11 0 .00 996.54 10355.81

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SECNO	DEPTH	CWSEL	CRISW	WSELK	EG	HV	HL	OLOSS	L-BANK ELEV
Q	QLOB	QCH	QROB	ALOB	ACH	AROB	VOL	TWA	R-BANK ELEV
TIME	VLOB	VCH	VROB	XNL	XNCH	XNR	WTN	ELMIN	SSTA
SLOPE	XLOBL	XLCH	XLOBR	ITRIAL	IDC	ICONT	CORAR	TOPWID	ENDST

FLOW DISTRIBUTION FOR SECNO= 13.20 CWSEL= 1073.63

STA= 9246. 9806. 10315. 10356.  
PER Q= 1.4 96.7 1.9  
AREA= 410.6 5285.7 218.4  
VEL= 1.2 6.3 3.1  
DEPTH= .7 10.4 5.3

\*SECNO 13.296

3265 DIVIDED FLOW

3470 ENCROACHMENT STATIONS= 9000.0 10380.0 TYPE= 1 TARGET= 1380.000  
13.296 10.73 1074.23 1068.61 .00 1074.67 .44 .43 .02 1073.50  
34500.0 434.7 33799.1 266.2 394.2 6280.6 98.2 14890.8 3522.5 1065.60  
3.42 1.10 5.38 2.71 .045 .035 .045 .000 1063.50 9229.18  
.000735 500. 510. 500. 2 11 0 .00 999.91 10342.82

FLOW DISTRIBUTION FOR SECNO= 13.30 CWSEL= 1074.23

STA= 9229. 9702. 10321. 10343.  
PER Q= 1.3 98.0 .8  
AREA= 394.2 6280.6 98.2  
VEL= 1.1 5.4 2.7  
DEPTH= .8 10.1 4.4

\*SECNO 13.395

3265 DIVIDED FLOW

3302 WARNING: CONVEYANCE CHANGE OUTSIDE OF ACCEPTABLE RANGE, KRATIO = .57

13.395 10.73 1074.73 1072.22 .00 1075.35 .61 .62 .05 1075.20  
34500.0 14.0 34485.0 1.1 12.4 5492.3 1.2 14964.3 3534.6 1073.80  
3.45 1.13 6.28 .91 .045 .035 .045 .000 1064.00 9228.97  
.002267 505. 522. 515. 2 14 0 .00 1022.96 10325.92

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SECNO	DEPTH	CWSEL	CRISW	WSELK	EG	HV	HL	OLOSS	L-BANK ELEV
Q	QLOB	QCH	QROB	ALOB	ACH	AROB	VOL	TWA	R-BANK ELEV
TIME	VLOB	VCH	VROB	XNL	XNCH	XNR	WTN	ELMIN	SSTA
SLOPE	XLOBL	XLCH	XLOBR	ITRIAL	IDC	ICONT	CORAR	TOPWID	ENDST

FLOW DISTRIBUTION FOR SECNO= 13.40 CWSEL= 1074.73

STA= 9229. 9241. 9252. 10323. 10326.  
PER Q= .0 .0 100.0 .0  
AREA= 6.3 6.1 5492.3 1.2  
VEL= 1.2 1.1 6.3 .9  
DEPTH= .5 .6 5.5 .5

CCHV= .300 CEHV= .500

\*SECNO 13.450

3302 WARNING: CONVEYANCE CHANGE OUTSIDE OF ACCEPTABLE RANGE, KRATIO = 1.58

\*\*\*\*\*  
\*\*\*\*\* OLIVE AVENUE \*\*\*\*\*  
\*\*\*\*\* LOW CHORD = 1086.4 \*\*\*\*\*  
\*\*\*\*\*

13.450 11.75 1075.55 1072.17 .00 1075.84 .29 .40 .10 1071.40

34500.0	557.2	33942.8	.0	299.5	7772.5	.0	15009.6	3542.6	1084.50
3.47	1.86	4.37	.00	.045	.035	.000	.000	1063.80	8840.22
.000910	290.	290.	290.	2	14	0	.00	1382.19	10222.41

FLOW DISTRIBUTION FOR SECNO= 13.45 CWSEL= 1075.55

STA=	8840.	8869.	8879.	8917.	8990.	10252.
PER Q=	.0	.0	.2	1.3	98.4	
AREA=	9.2	8.8	59.1	222.4	7772.5	
VEL=	.5	.9	1.3	2.1	4.4	
DEPTH=	.3	.9	1.5	3.0	6.3	

SPECIAL BRIDGE

SB	XK	XKOR	COFQ	RDLEN	BWC	BWP	BAREA	SS	ELCHU	ELCHD
	1.05	1.56	2.70	.00	1400.00	99.00	21608.27	3.00	1070.00	1070.00

\*SECNO 13.467  
CLASS A LOW FLOW

3420 BRIDGE W.S.= 1075.49 BRIDGE VELOCITY= 4.77 CALCULATED CHANNEL AREA= 7236.

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SECNO	DEPTH	CWSEL	CRISW	WSELK	EG	HV	HL	OLOSS	L-BANK ELEV
Q	QLOB	QCH	QROB	ALOB	ACH	AROB	VOL	TWA	R-BANK ELEV
TIME	VLOB	VCH	VROB	XNL	XNCH	XNR	WTN	ELMIN	SSTA
SLOPE	XLOBL	XLCH	XLOBR	ITRIAL	IDC	ICONT	CORAR	TOPWID	ENDST

EGPRS	EGLWC	H3	QWEIR	QLOW	BAREA	TRAPEZOID AREA	ELLC	ELTRD	WEIRLN
.00	1075.89	.04	0.	34500.	21608.	27647.	1090.30	1092.80	0.
13.467	11.49	1075.59	.00	.00	1075.89	.30	.05	.00	1090.90
34500.0	.0	34500.0	.0	.0	7809.2	.0	15026.0	3545.5	1090.60
3.47	.00	4.42	.00	.000	.035	.000	.000	1064.10	8785.78
.001115	90.	90.	90.	0	0	0	.00	1417.38	10203.16

FLOW DISTRIBUTION FOR SECNO= 13.47 CWSEL= 1075.59

STA=	8786.	10287.
PER Q=	100.0	
AREA=	7809.2	
VEL=	4.4	
DEPTH=	5.5	

\*SECNO 13.518

3265 DIVIDED FLOW

3302 WARNING: CONVEYANCE CHANGE OUTSIDE OF ACCEPTABLE RANGE, KRATIO = .48

3470 ENCROACHMENT STATIONS=	8560.0	10214.0	TYPE=	1	TARGET=	1654.000
13.518	11.73	1075.93	1074.69	.00	1076.64	.71
34500.0	2387.5	31872.6	239.9	516.5	4610.9	46.6
3.48	4.62	6.91	5.15	.045	.035	.045
.004791	260.	270.	260.	2	14	0
						.00
						1472.32
						10200.28

FLOW DISTRIBUTION FOR SECNO= 13.52 CWSEL= 1075.93

STA=	8614.	8618.	8672.	8701.	8772.	8800.	10190.	10200.
PER Q=	.0	1.2	1.4	3.2	1.1	92.4	.7	
AREA=	2.2	112.1	95.9	223.5	82.7	4610.9	46.6	
VEL=	1.6	3.7	5.0	4.9	4.6	6.9	5.1	
DEPTH=	.6	2.1	3.2	3.2	2.9	3.6	4.4	

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SECNO	DEPTH	CWSEL	CRISW	WSELK	EG	HV	HL	OLOSS	L-BANK ELEV
Q	QLOB	QCH	QROB	ALOB	ACH	AROB	VOL	TWA	R-BANK ELEV
TIME	VLOB	VCH	VROB	XNL	XNCH	XNR	WTN	ELMIN	SSTA
SLOPE	XLOBL	XLCH	XLOBR	ITRIAL	IDC	ICONT	CORAR	TOPWID	ENDST

CCHV= .100 CEHV= .300  
\*SECNO 13.565

3265 DIVIDED FLOW

13.565	11.38	1077.18	1075.87	.00	1077.78	.59	1.12	.01	1074.20
34500.0	3677.9	30822.1	.0	954.7	4822.0	.0	15097.7	3563.8	1088.90
3.49	3.85	6.39	.00	.045	.035	.000	.000	1065.80	7935.71
.004148	245.	252.	255.	3	9	0	.00	1799.17	10231.13

FLOW DISTRIBUTION FOR SECNO= 13.56 CWSEL= 1077.18

STA= 7936. 8684. 8788. 8887. 10248.  
 PER Q= 3.4 3.9 3.4 89.3  
 AREA= 372.9 305.2 276.5 4822.0  
 VEL= 3.2 4.4 4.2 6.4  
 DEPTH= .5 2.9 2.8 3.6

\*SECNO 13.663

3265 DIVIDED FLOW

13.663	13.47	1079.17	1077.75	.00	1079.72	.55	1.94	.00	1075.70
34500.0	6588.1	27556.1	355.8	1657.2	4344.6	79.2	15167.5	3584.6	1074.40
3.52	3.98	6.34	4.49	.045	.035	.045	.000	1065.70	7515.68
.003453	505.	515.	535.	2	9	0	.00	1735.81	10354.50

FLOW DISTRIBUTION FOR SECNO= 13.66 CWSEL= 1079.17

STA= 7516. 8856. 8938. 9039. 9207. 9228. 10330. 10354.  
 PER Q= 3.4 3.6 4.5 6.6 .9 79.9 1.0  
 AREA= 410.6 283.0 351.3 541.3 71.1 4344.6 79.2  
 VEL= 2.8 4.4 4.4 4.2 4.4 6.3 4.5  
 DEPTH= .3 3.5 3.5 3.2 3.4 4.1 3.2

\*SECNO 13.760

3265 DIVIDED FLOW

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SECNO	DEPTH	CWSEL	CRISW	WSELK	EG	HV	HL	OLOSS	L-BANK ELEV
Q	QLOB	QCH	QROB	ALOB	ACH	AROB	VOL	TWA	R-BANK ELEV
TIME	VLOB	VCH	VROB	XNL	XNCH	XNR	WTN	ELMIN	SSTA
SLOPE	XLOBL	XLCH	XLOBR	ITRIAL	IDC	ICONT	CORAR	TOPWID	ENDST
13.760	13.01	1080.91	1079.48	.00	1081.44	.52	1.71	.00	1077.50
34500.0	8105.4	15978.5	10416.1	2186.2	2619.0	1573.6	15240.5	3605.4	1071.20
3.54	3.71	6.10	6.62	.045	.035	.045	.000	1067.90	7041.87
.003266	505.	511.	515.	2	9	0	.00	1827.66	10427.50

FLOW DISTRIBUTION FOR SECNO= 13.76 CWSEL= 1080.91

STA= 7042. 9097. 9204. 9305. 9402. 9505. 9522. 10175. 10207. 10256. 10306. 10343. 10379.  
 PER Q= 7.7 3.6 3.8 3.9 3.8 .6 46.3 7.4 5.8 3.9 3.1 4.7  
 AREA= 850.4 315.3 322.3 320.5 325.4 52.4 2619.0 300.9 306.9 248.1 192.6 243.5  
 VEL= 3.1 3.9 4.1 4.2 4.1 4.0 6.1 8.4 6.5 5.5 5.6 6.7  
 DEPTH= .4 3.0 3.2 3.3 3.2 3.1 4.0 9.5 6.3 5.0 5.2 6.7

STA= 10379. 10406. 10427.  
 PER Q= 4.2 1.1  
 AREA= 199.1 82.6  
 VEL= 7.2 4.4  
 DEPTH= 7.5 3.8

\*SECNO 13.856

3265 DIVIDED FLOW

3470 ENCROACHMENT STATIONS= 6800.0 10448.0 TYPE= 1 TARGET= 3648.000  
 13.856 11.02 1082.22 1080.33 .00 1082.87 .66 1.40 .04 1078.20  
 34500.0 3234.5 24210.9 7054.6 1286.4 3330.1 1497.5 15313.4 3625.1 1075.70  
 3.57 2.51 7.27 4.71 .045 .035 .045 .000 1071.20 6932.59  
 .002345 505. 510. 510. 2 16 0 .00 1553.74 10419.95

FLOW DISTRIBUTION FOR SECNO= 13.86 CWSEL= 1082.22

STA= 6933. 9259. 9552. 9609. 10108. 10146. 10210. 10265. 10353. 10420.  
 PER Q= 3.1 4.9 1.4 70.2 4.4 5.6 3.4 4.3 2.8  
 AREA= 516.0 614.2 156.2 3330.1 262.5 370.3 260.8 363.1 240.8  
 VEL= 2.1 2.7 3.1 7.3 5.7 5.2 4.5 4.1 3.9  
 DEPTH= .2 2.1 2.7 6.7 6.8 5.9 4.7 4.1 3.6

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SECNO	DEPTH	CWSEL	CRISW	WSELK	EG	HV	HL	OLOSS	L-BANK ELEV
Q	QLOB	QCH	QROB	ALOB	ACH	AROB	VOL	TWA	R-BANK ELEV
TIME	VLOB	VCH	VROB	XNL	XNCH	XNR	WTN	ELMIN	SSTA
SLOPE	XLOBL	XLCH	XLOBR	ITRIAL	IDC	ICONT	CORAR	TOPWID	ENDST

\*SECNO 13.952

3265 DIVIDED FLOW

3470 ENCROACHMENT STATIONS= 6900.0 10583.0 TYPE= 1 TARGET= 3683.000  
 13.952 10.22 1083.52 1082.57 .00 1084.59 1.07 1.59 .12 1083.00  
 34500.0 482.7 30528.5 3488.8 252.3 3513.6 817.8 15375.8 3641.6 1081.40  
 3.58 1.91 8.69 4.27 .045 .035 .045 .000 1073.30 7144.00  
 .004377 505. 508. 510. 2 12 0 .00 1280.95 10384.79

FLOW DISTRIBUTION FOR SECNO= 13.95 CWSEL= 1083.52

STA= 7144. 9433. 10076. 10213. 10321. 10385.  
 PER Q= 1.4 88.5 4.0 4.6 1.4  
 AREA= 252.3 3513.6 343.3 340.7 133.8  
 VEL= 1.9 8.7 4.0 4.7 3.7  
 DEPTH= .1 5.5 2.5 3.2 2.1

\*SECNO 14.049

3265 DIVIDED FLOW

3470 ENCROACHMENT STATIONS= 7100.0 10644.0 TYPE= 1 TARGET= 3544.000  
 14.049 11.31 1085.81 1084.52 .00 1086.61 .80 2.00 .03 1084.70  
 34500.0 581.8 31380.1 2538.1 326.2 4220.2 599.6 15432.8 3657.9 1083.20  
 3.60 1.78 7.44 4.23 .045 .035 .045 .000 1074.50 7310.47  
 .003508 500. 512. 505. 2 6 0 .00 1507.92 10310.43

FLOW DISTRIBUTION FOR SECNO= 14.05 CWSEL= 1085.81

STA= 7310. 9288. 10115. 10275. 10310.  
 PER Q= 1.7 91.0 5.9 1.4  
 AREA= 326.2 4220.2 488.0 111.7  
 VEL= 1.8 7.4 4.2 4.4  
 DEPTH= .2 5.1 3.0 3.2

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SECNO	DEPTH	CWSEL	CRISW	WSELK	EG	HV	HL	OLOSS	L-BANK ELEV
Q	QLOB	QCH	QROB	ALOB	ACH	AROB	VOL	TWA	R-BANK ELEV
TIME	VLOB	VCH	VROB	XNL	XNCH	XNR	WTN	ELMIN	SSTA
SLOPE	XLOBL	XLCH	XLOBR	ITRIAL	IDC	ICONT	CORAR	TOPWID	ENDST

\*SECNO 14.145

3265 DIVIDED FLOW

3470 ENCROACHMENT STATIONS= 7300.0 10478.0 TYPE= 1 TARGET= 3178.000  
 14.145 10.59 1087.49 1085.49 .00 1087.95 .47 1.31 .03 1090.70  
 34500.0 1015.2 32169.1 1315.7 597.2 5712.0 432.1 15502.1 3677.4 1085.00  
 3.63 1.70 5.63 3.04 .045 .035 .045 .000 1076.90 7621.29  
 .001964 500. 510. 500. 2 14 0 .00 1848.01 10431.13

FLOW DISTRIBUTION FOR SECNO= 14.15 CWSEL= 1087.49

STA= 7621. 8858. 10280. 10413. 10431.  
 PER Q= 2.9 93.2 3.6 .2  
 AREA= 597.2 5712.0 397.5 34.6  
 VEL= 1.7 5.6 3.1 2.4  
 DEPTH= .5 5.2 3.0 1.9

\*SECNO 14.240

3265 DIVIDED FLOW

3470 ENCROACHMENT STATIONS= 7500.0 10710.0 TYPE= 1 TARGET= 3210.000  
 14.240 8.31 1088.61 1086.99 .00 1089.05 .44 1.09 .00 1089.90  
 34500.0 1205.4 30075.5 3219.0 600.7 5418.9 909.7 15579.5 3698.4 1087.50  
 3.66 2.01 5.55 3.54 .045 .035 .045 .000 1080.30 7931.55  
 .002445 365. 500. 550. 2 14 0 .00 2079.36 10698.97

FLOW DISTRIBUTION FOR SECNO= 14.24 CWSEL= 1088.61

STA= 7932. 8913. 8934. 10391. 10627. 10699.  
 PER Q= 3.3 .2 87.2 7.0 2.3  
 AREA= 567.9 32.8 5418.9 686.3 223.4  
 VEL= 2.0 2.2 5.6 3.5 3.6  
 DEPTH= .6 1.6 4.3 2.9 3.1

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SECNO	DEPTH	CWSEL	CRISW	WSELK	EG	HV	HL	OLOSS	L-BANK ELEV
Q	QLOB	QCH	QROB	ALOB	ACH	AROB	VOL	TWA	R-BANK ELEV
TIME	VLOB	VCH	VROB	XNL	XNCH	XNR	WTN	ELMIN	SSTA
SLOPE	XLOBL	XLCH	XLOBR	ITRIAL	IDC	ICONT	CORAR	TOPWID	ENDST

\*SECNO 14.335

3265 DIVIDED FLOW

3280 CROSS SECTION 14.34 EXTENDED .04 FEET

3470 ENCROACHMENT STATIONS=	7700.0	10875.0	TYPE=	1	TARGET=	3175.000			
14.335	10.14	1089.94	1088.61	.00	1090.42	.48	1.36	.01	1089.50
34500.0	1700.9	28985.9	3813.2	573.4	4912.2	1094.5	15656.2	3721.6	1088.40
3.68	2.97	5.90	3.48	.045	.035	.045	.000	1079.80	8022.95
.003089	400.	499.	530.	2	8	0	.00	2089.42	10875.00

FLOW DISTRIBUTION FOR SECNO= 14.34 CWSEL= 1089.94

STA=	8023.	8314.	9119.	10358.	10616.	10708.	10868.	10875.
PER Q=	3.0	1.9	84.0	3.3	4.5	3.1	.1	
AREA=	303.1	270.2	4912.2	404.3	349.1	331.5	9.6	
VEL=	3.4	2.5	5.9	2.8	4.5	3.3	2.1	
DEPTH=	1.0	.3	4.0	1.6	3.8	2.1	1.4	

\*SECNO 14.430

3265 DIVIDED FLOW

3470 ENCROACHMENT STATIONS=	7800.0	10984.0	TYPE=	1	TARGET=	3184.000			
14.430	8.23	1091.43	1090.15	.00	1091.91	.48	1.49	.00	1092.10
34500.0	1948.1	28675.2	3876.7	772.8	4816.7	1146.8	15732.6	3746.2	1090.10
3.71	2.52	5.95	3.38	.045	.035	.045	.000	1083.20	8083.92
.002839	410.	503.	540.	2	18	0	.00	2266.94	10846.66

FLOW DISTRIBUTION FOR SECNO= 14.43 CWSEL= 1091.43

STA=	8084.	8428.	9104.	10301.	10623.	10721.	10831.	10847.
PER Q=	3.0	2.6	83.1	4.4	3.5	3.3	.0	
AREA=	336.1	436.7	4816.7	508.9	314.3	316.4	7.2	
VEL=	3.1	2.1	6.0	3.0	3.9	3.6	1.1	
DEPTH=	1.0	.6	4.3	1.6	3.2	2.9	.5	

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SECNO	DEPTH	CWSEL	CRISW	WSELK	EG	HV	HL	OLOSS	L-BANK ELEV
Q	QLOB	QCH	QROB	ALOB	ACH	AROB	VOL	TWA	R-BANK ELEV
TIME	VLOB	VCH	VROB	XNL	XNCH	XNR	WTN	ELMIN	SSTA
SLOPE	XLOBL	XLCH	XLOBR	ITRIAL	IDC	ICONT	CORAR	TOPWID	ENDST

\*SECNO 14.525

3265 DIVIDED FLOW

3470 ENCROACHMENT STATIONS=	7800.0	10815.3	TYPE=	1	TARGET=	3015.300			
14.525	9.51	1092.71	1090.68	.00	1093.11	.40	1.19	.01	1093.90
34500.0	1209.0	26082.3	7208.7	586.4	4833.4	1750.7	15813.2	3770.1	1092.30
3.74	2.06	5.40	4.12	.045	.035	.045	.000	1083.20	8329.84
.001967	425.	504.	545.	2	10	0	.00	1955.33	10760.37

FLOW DISTRIBUTION FOR SECNO= 14.52 CWSEL= 1092.71

STA=	8330.	8981.	9137.	10233.	10465.	10583.	10637.	10718.	10760.
PER Q=	3.1	.4	75.6	4.0	9.0	4.5	3.1	.2	
AREA=	485.1	101.3	4833.4	412.8	670.3	320.7	295.5	51.3	
VEL=	2.2	1.3	5.4	3.4	4.7	4.8	3.6	1.7	
DEPTH=	.7	.6	4.9	1.8	5.7	6.0	3.7	1.2	

\*SECNO 14.619

3265 DIVIDED FLOW

3302 WARNING: CONVEYANCE CHANGE OUTSIDE OF ACCEPTABLE RANGE, KRATIO = .69

3470 ENCROACHMENT STATIONS=	8100.0	10802.2	TYPE=	1	TARGET=	2702.200			
14.619	7.53	1093.83	1092.87	.00	1094.60	.77	1.38	.11	1095.20
34500.0	1545.8	29422.2	3532.0	550.3	3951.5	883.4	15884.7	3791.4	1092.10
3.76	2.81	7.45	4.00	.045	.035	.045	.000	1086.30	8442.02
.004192	410.	494.	540.	2	19	0	.00	1858.61	10785.59

FLOW DISTRIBUTION FOR SECNO= 14.62 CWSEL= 1093.83

STA=	8442.	9076.	9201.	10198.	10643.	10738.	10786.
PER Q=	3.2	1.2	85.3	3.1	4.2	3.0	
AREA=	405.4	144.9	3951.5	408.1	297.7	177.6	
VEL=	2.8	2.9	7.4	2.6	4.8	5.8	

DEPTH= .6 1.2 4.5 .9 3.1 3.7

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SECNO	DEPTH	CWSEL	CRISW	WSELK	EG	HV	HL	OLOSS	L-BANK ELEV
Q	QLOB	QCH	QROB	ALOB	ACH	AROB	VOL	TWA	R-BANK ELEV
TIME	VLOB	VCH	VROB	XLN	XNCH	XNR	WTN	ELMIN	SSTA
SLOPE	XLOBL	XLCH	XLOBR	ITRIAL	IDC	ICONT	CORAR	TOPWID	ENDST

\*SECNO 14.708

3265 DIVIDED FLOW

3470 ENCROACHMENT STATIONS=	8350.0	11257.9	TYPE=	1	TARGET=	2907.900			
14.708	7.28	1095.68	1094.85	.00	1096.33	.65	1.72	.01	1095.10
34500.0	4048.6	27277.4	3174.0	1327.0	3835.6	1279.8	15948.4	3814.8	1092.60
	3.78	3.05	7.11	2.48	.045	.035	.045	.000	1088.40
.003234	425.	471.	500.	3	15	0	.00	2497.73	11149.31

FLOW DISTRIBUTION FOR SECNO= 14.71 CWSEL= 1095.68

STA=	8511.	8722.	8815.	9223.	9428.	10187.	10503.	10903.	11149.
PER Q=	4.5	3.1	3.3	.8	79.1	3.1	3.1	3.1	3.1
AREA=	463.0	268.4	489.2	106.5	3835.6	408.4	472.4	399.0	
VEL=	3.4	4.0	2.4	2.5	7.1	2.6	2.2	2.6	
DEPTH=	2.2	2.9	1.2	.5	5.1	1.3	1.2	1.6	

\*SECNO 14.809

3265 DIVIDED FLOW

3470 ENCROACHMENT STATIONS=	8474.0	10252.8	TYPE=	1	TARGET=	1778.800			
14.809	10.00	1097.10	1095.06	.00	1098.01	.91	1.60	.08	1095.90
34500.0	1333.6	33086.7	79.7	669.0	4239.2	42.6	16017.5	3839.8	1095.20
	3.80	1.99	7.80	1.87	.045	.035	.045	.000	1087.10
.002837	510.	531.	540.	2	8	0	.00	1657.00	10235.61

FLOW DISTRIBUTION FOR SECNO= 14.81 CWSEL= 1097.10

STA=	8562.	9403.	9537.	10196.	10236.
PER Q=	3.0	.8	95.9	.2	
AREA=	520.6	148.3	4239.2	42.6	
VEL=	2.0	2.0	7.8	1.9	
DEPTH=	.6	1.1	6.4	1.1	

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SECNO	DEPTH	CWSEL	CRISW	WSELK	EG	HV	HL	OLOSS	L-BANK ELEV
Q	QLOB	QCH	QROB	ALOB	ACH	AROB	VOL	TWA	R-BANK ELEV
TIME	VLOB	VCH	VROB	XLN	XNCH	XNR	WTN	ELMIN	SSTA
SLOPE	XLOBL	XLCH	XLOBR	ITRIAL	IDC	ICONT	CORAR	TOPWID	ENDST

\*SECNO 14.905

3302 WARNING: CONVEYANCE CHANGE OUTSIDE OF ACCEPTABLE RANGE, KRATIO = 1.44

3470 ENCROACHMENT STATIONS=	8974.3	10303.0	TYPE=	1	TARGET=	1328.700			
14.905	10.01	1098.61	1095.53	.00	1099.03	.43	.97	.05	1095.00
34500.0	2505.9	26072.1	5922.0	1028.9	4642.1	1380.5	16087.4	3857.0	1092.80
	3.82	2.44	5.62	4.29	.045	.035	.045	.000	1088.60
.001374	500.	509.	510.	2	19	0	.00	1313.41	10298.75

FLOW DISTRIBUTION FOR SECNO= 14.90 CWSEL= 1098.61

STA=	8985.	9118.	9380.	9392.	10080.	10149.	10197.	10249.	10299.
PER Q=	3.5	3.4	.4	75.6	5.7	4.8	4.5	2.1	
AREA=	434.2	548.3	46.3	4642.1	455.6	356.5	355.9	212.5	
VEL=	2.8	2.1	2.9	5.6	4.3	4.7	4.4	3.4	
DEPTH=	3.3	2.1	3.7	6.8	6.6	7.5	6.8	4.3	

\*SECNO 15.000

3470 ENCROACHMENT STATIONS=	9175.6	10600.0	TYPE=	1	TARGET=	1424.400			
15.000	10.59	1099.39	1097.22	.00	1099.91	.52	.85	.03	1098.00
34500.0	781.7	26291.8	7426.5	298.5	4191.4	1816.4	16163.9	3872.2	1097.00
	3.85	2.62	6.27	4.09	.045	.035	.045	.000	1088.80
.002152	500.	501.	495.	2	9	0	.00	1339.16	10522.95

FLOW DISTRIBUTION FOR SECNO= 15.00 CWSEL= 1099.39

STA=	9184.	9346.	10082.	10241.	10362.	10457.	10495.	10523.
PER Q=	2.3	76.2	4.5	6.3	6.8	3.2	.6	

AREA= 298.5 4191.4 480.5 533.3 504.2 224.0 74.4  
VEL= 2.6 6.3 3.2 4.1 4.7 4.9 2.9  
DEPTH= 1.8 5.7 3.0 4.4 5.3 5.8 2.7

\*SECNO 15.094

3470 ENCROACHMENT STATIONS= 9293.4 11152.4 TYPE= 1 TARGET= 1859.000  
15.094 10.58 1100.48 1098.37 .00 1100.92 .44 1.00 .01 1099.10  
34500.0 75.2 26088.3 8336.5 43.2 4458.4 2582.5 16240.2 3889.2 1094.70  
3.87 1.74 5.85 3.23 .045 .035 .045  
.001894 495. 496. 495. 2 15 0 .00 1653.78 10955.45

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SECNO	DEPTH	CWSEL	CRISW	WSELK	EG	HV	HL	OLOSS	L-BANK ELEV
Q	QLOB	QCH	QROB	ALOB	ACH	AROB	VOL	TWA	R-BANK ELEV
TIME	VLOB	VCH	VROB	XNL	XNCH	XNR	WTN	ELMIN	SSTA
SLOPE	XLOBL	XLCH	XLOBR	ITRIAL	IDC	ICONT	CORAR	TOPWID	ENDST

FLOW DISTRIBUTION FOR SECNO= 15.09 CWSEL= 1100.48

STA= 9302. 9336. 10125. 10190. 10349. 10524. 10641. 10828. 10931. 10955.  
PER Q= .2 75.6 3.6 5.0 5.4 3.4 3.6 3.0 .2  
AREA= 43.2 4458.4 302.3 534.4 578.2 369.1 436.8 327.5 34.2  
VEL= 1.7 5.9 4.1 3.2 3.2 3.2 2.8 3.2 1.8  
DEPTH= 1.3 5.7 4.7 3.4 3.3 3.2 2.3 3.2 1.4

\*SECNO 15.188

3265 DIVIDED FLOW

3470 ENCROACHMENT STATIONS= 9360.1 11050.0 TYPE= 1 TARGET= 1689.900  
15.188 12.32 1101.32 1099.99 .00 1102.25 .93 1.19 .15 1097.30  
34500.0 50.2 29547.6 4902.2 17.7 3575.2 1509.6 16306.7 3905.5 1100.40  
3.89 2.84 8.26 3.25 .045 .035 .045  
.003307 550. 495. 435. 2 8 0 .00 1414.78 11050.00

FLOW DISTRIBUTION FOR SECNO= 15.19 CWSEL= 1101.32

STA= 9496. 9505. 10076. 10342. 10424. 10520. 11030. 11050.  
PER Q= .1 85.6 3.7 3.4 3.3 3.4 .3  
AREA= 17.7 3575.2 433.6 274.8 290.2 470.2 40.8  
VEL= 2.8 8.3 2.9 4.3 4.0 2.5 2.9  
DEPTH= 2.0 6.3 1.6 3.4 3.0 .9 2.0

\*SECNO 15.281

3265 DIVIDED FLOW

3470 ENCROACHMENT STATIONS= 9602.8 10950.0 TYPE= 1 TARGET= 1347.200  
15.281 10.27 1102.87 1102.28 .00 1103.94 1.07 1.65 .04 1098.10  
34500.0 1930.1 23872.9 8697.0 367.2 2485.1 2255.5 16361.7 3919.6 1101.40  
3.91 5.26 9.61 3.86 .045 .035 .045  
.003562 560. 491. 425. 2 14 0 .00 1293.97 10950.00

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SECNO	DEPTH	CWSEL	CRISW	WSELK	EG	HV	HL	OLOSS	L-BANK ELEV
Q	QLOB	QCH	QROB	ALOB	ACH	AROB	VOL	TWA	R-BANK ELEV
TIME	VLOB	VCH	VROB	XNL	XNCH	XNR	WTN	ELMIN	SSTA
SLOPE	XLOBL	XLCH	XLOBR	ITRIAL	IDC	ICONT	CORAR	TOPWID	ENDST

FLOW DISTRIBUTION FOR SECNO= 15.28 CWSEL= 1102.87

STA= 9656. 9743. 10078. 10295. 10420. 10502. 10651. 10882. 10950.  
PER Q= 5.6 69.2 4.7 4.9 3.4 3.1 7.9 1.2  
AREA= 367.2 2485.1 470.8 396.3 269.2 310.3 676.8 132.2  
VEL= 5.3 9.6 3.5 4.3 4.4 3.4 4.0 3.1  
DEPTH= 4.2 7.4 2.2 3.2 3.3 2.1 2.9 1.9

\*SECNO 15.374

3265 DIVIDED FLOW

3301 HV CHANGED MORE THAN HVINS

3470 ENCROACHMENT STATIONS= 9822.0 10770.0 TYPE= 1 TARGET= 948.000  
15.374 10.46 1104.26 1104.11 .00 1106.15 1.88 1.96 .24 1101.30  
34500.0 14.0 26434.1 8051.8 5.0 2144.3 1755.6 16408.5 3930.6 1101.90  
3.92 2.81 12.33 4.59 .040 .035 .045  
.004942 540. 491. 400. 2 5 0 .00 936.64 10770.00

FLOW DISTRIBUTION FOR SECNO= 15.37 CWSEL= 1104.26

STA=	9829.	9832.	10086.	10190.	10263.	10352.	10505.	10594.	10757.	10770.
PER Q=	.0	76.6	3.1	4.0	3.1	3.6	4.5	4.7	.4	
AREA=	5.0	2144.3	244.7	255.3	236.7	302.8	300.6	380.5	35.1	
VEL=	2.8	12.3	4.4	5.4	4.5	4.1	5.2	4.2	3.9	
DEPTH=	1.5	8.5	2.3	3.5	2.7	2.0	3.3	2.3	2.6	

\*SECNO 15.469

3265 DIVIDED FLOW

3301 HV CHANGED MORE THAN HVINS

3302 WARNING: CONVEYANCE CHANGE OUTSIDE OF ACCEPTABLE RANGE, KRATIO = 1.61

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SECNO	DEPTH	CWSEL	CRISW	WSELK	EG	HV	HL	OLOSS	L-BANK ELEV
Q	QLOB	QCH	QROB	ALOB	ACH	AROB	VOL	TWA	R-BANK ELEV
TIME	VLOB	VCH	VROB	XNL	XNCH	XNR	WTN	ELMIN	SSTA
SLOPE	XLOBL	XLCH	XLOBR	ITRIAL	IDC	ICONT	CORAR	TOPWID	ENDST

3470 ENCROACHMENT STATIONS= 9701.0 10500.0 TYPE= 1 TARGET= 799.000

15.469	11.66	1106.86	1104.25	.00	1107.67	.81	1.42	.11	1097.50
34500.0	6918.6	18842.4	8739.1	1033.0	2233.0	2072.7	16459.3	3939.8	1100.40
3.94	6.70	8.44	4.22	.040	.035	.045	.000	1095.20	9709.79
.001905	515.	502.	440.	2	15	0	.00	785.78	10500.00

FLOW DISTRIBUTION FOR SECNO= 15.47 CWSEL= 1106.86

STA=	9710.	9778.	9804.	9830.	9848.	10077.	10129.	10199.	10298.	10389.	10446.	10496.	10500.
PER Q=	7.6	4.2	4.6	3.6	54.6	5.0	3.8	4.6	4.8	3.4	3.6	.1	
AREA=	413.1	218.7	229.0	172.2	2233.0	339.5	328.0	418.5	414.1	281.6	276.5	14.5	
VEL=	6.3	6.7	7.0	7.2	8.4	5.1	4.0	3.8	4.0	4.2	4.5	2.2	
DEPTH=	6.0	8.4	8.9	9.3	9.8	6.6	4.6	4.2	4.6	4.9	5.5	4.0	

\*SECNO 15.564

3470 ENCROACHMENT STATIONS= 9539.0 10300.0 TYPE= 1 TARGET= 761.000

15.564	11.66	1107.86	1105.26	.00	1108.74	.88	1.04	.02	1101.80
34500.0	21377.3	9592.7	3529.9	2969.4	1055.3	927.7	16517.1	3948.1	1103.60
3.96	7.20	9.09	3.81	.040	.035	.045	.000	1096.20	9559.99
.002320	520.	502.	435.	3	15	0	.00	740.01	10300.00

FLOW DISTRIBUTION FOR SECNO= 15.56 CWSEL= 1107.86

STA=	9560.	9613.	9664.	9765.	9784.	9801.	9819.	9862.	9893.	9920.	9936.	10047.	10124.
PER Q=	6.2	9.0	18.6	4.2	3.7	3.2	6.9	4.6	3.8	1.9	27.8	3.4	
AREA=	329.1	424.5	858.3	180.9	159.6	151.8	334.9	231.1	194.5	104.8	1055.3	298.5	
VEL=	6.5	7.3	7.5	8.0	8.0	7.3	7.1	6.8	6.7	6.2	9.1	3.9	
DEPTH=	6.2	8.3	8.5	9.5	9.4	8.3	7.9	7.4	7.3	6.5	9.5	3.9	

STA= 10124. 10218. 10300.

PER Q=	3.0	3.8
AREA=	298.6	330.6
VEL=	3.5	3.9
DEPTH=	3.2	4.0

\*SECNO 15.658

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SECNO	DEPTH	CWSEL	CRISW	WSELK	EG	HV	HL	OLOSS	L-BANK ELEV
Q	QLOB	QCH	QROB	ALOB	ACH	AROB	VOL	TWA	R-BANK ELEV
TIME	VLOB	VCH	VROB	XNL	XNCH	XNR	WTN	ELMIN	SSTA
SLOPE	XLOBL	XLCH	XLOBR	ITRIAL	IDC	ICONT	CORAR	TOPWID	ENDST

3470 ENCROACHMENT STATIONS= 9447.0 10150.0 TYPE= 1 TARGET= 703.000

15.658	11.96	1109.06	1105.80	.00	1109.88	.82	1.14	.01	1107.70
34500.0	24078.2	9290.6	1131.1	3313.4	1231.6	264.6	16573.8	3956.4	1103.10
3.98	7.27	7.54	4.27	.040	.035	.040	.000	1097.10	9451.44
.002159	520.	497.	450.	2	19	0	.00	698.56	10150.00

FLOW DISTRIBUTION FOR SECNO= 15.66 CWSEL= 1109.06

STA=	9451.	9484.	9526.	9568.	9593.	9624.	9661.	9693.	9732.	9772.	9843.	9920.	10084.
PER Q=	4.3	9.0	9.7	5.8	7.0	9.3	7.7	8.7	4.5	3.2	.6	26.9	
AREA=	221.5	400.4	419.4	251.0	302.3	391.6	324.8	381.6	259.1	265.1	96.6	1231.6	
VEL=	6.6	7.7	8.0	8.0	8.0	8.2	8.2	7.9	6.0	4.2	2.0	7.5	
DEPTH=	6.9	9.5	10.0	10.0	9.9	10.4	10.4	9.8	6.5	3.7	1.2	7.5	

STA= 10084. 10150.  
PER Q= 3.3  
AREA= 264.6  
VEL= 4.3  
DEPTH= 4.0

\*SECNO 15.719

3470 ENCROACHMENT STATIONS=	9385.2	10150.0	TYPE=	1	TARGET=	764.800				
15.719	16.05	1109.75	1106.17	.00	1110.59	.83	.70	.00	1109.40	
34500.0	21462.0	13038.0	.0	3176.7	1592.4	.0	16611.3	3961.7	1114.50	
3.99	6.76	8.19	.00	.040	.035	.000	.000	1093.70	9387.19	
.001969	350.	323.	310.	2	9	0	.00	666.37	10053.56	

FLOW DISTRIBUTION FOR SECNO= 15.72 CWSEL= 1109.75

STA=	9387.	9508.	9559.	9593.	9632.	9674.	9771.	9885.	10060.
PER Q=	27.3	11.2	7.3	7.0	4.5	3.1	1.7	37.8	
AREA=	1209.4	505.1	335.4	341.8	272.6	303.7	208.6	1592.4	
VEL=	7.8	7.7	7.5	7.1	5.7	3.5	2.8	8.2	
DEPTH=	10.0	10.0	9.8	8.9	6.4	3.1	1.8	9.5	

\*SECNO 15.814

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SECNO	DEPTH	CWSEL	CRWS	WSELK	EG	HV	HL	OLOSS	L-BANK ELEV
Q	QLOB	QCH	QROB	ALOB	ACH	AROB	VOL	TWA	R-BANK ELEV
TIME	VLOB	VCH	VROB	XNL	XNCH	XNR	WTN	ELMIN	SSTA
SLOPE	XLOBL	XLCH	XLOBR	ITRIAL	IDC	ICONT	CORAR	TOPWID	ENDST

3470 ENCROACHMENT STATIONS=	9375.0	10150.0	TYPE=	1	TARGET=	775.000			
15.814	16.25	1110.65	1107.97	.00	1111.82	1.17	1.13	.10	1108.90
34500.0	15596.8	18903.2	.0	2261.2	1903.6	.0	16662.9	3969.4	1115.90
4.01	6.90	9.93	.00	.040	.035	.000	.000	1094.40	9384.62
.002585	505.	502.	505.	2	12	0	.00	653.15	10037.77

FLOW DISTRIBUTION FOR SECNO= 15.81 CWSEL= 1110.65

STA=	9385.	9412.	9430.	9447.	9473.	9499.	9522.	9550.	9580.	9741.	9850.	10049.
PER Q=	3.1	6.4	6.1	7.4	5.0	3.7	4.2	3.2	4.9	1.3	54.8	
AREA=	160.9	222.3	205.7	280.0	217.1	177.8	202.1	178.1	446.8	170.5	1903.6	
VEL=	6.7	9.9	10.2	9.1	7.9	7.2	7.1	6.2	3.8	2.6	9.9	
DEPTH=	5.9	12.1	12.5	10.6	8.5	7.5	7.3	6.0	2.8	1.6	10.1	

\*SECNO 15.909

3470 ENCROACHMENT STATIONS=	9330.0	10200.0	TYPE=	1	TARGET=	870.000			
15.909	14.27	1112.07	1107.88	.00	1112.77	.70	.91	.05	1108.70
34500.0	15160.3	19339.7	.0	2937.8	2510.5	.0	16717.8	3977.1	1114.10
4.03	5.16	7.70	.00	.040	.035	.000	.000	1097.80	9347.63
.001354	495.	499.	505.	2	14	0	.00	708.55	10056.19

FLOW DISTRIBUTION FOR SECNO= 15.91 CWSEL= 1112.07

STA=	9348.	9386.	9439.	9485.	9533.	9565.	9647.	9717.	9832.	10060.
PER Q=	6.3	12.2	7.4	5.1	3.4	3.1	3.6	2.8	56.1	
AREA=	353.9	606.6	423.1	344.4	231.6	314.6	328.9	334.7	2510.5	
VEL=	6.2	6.9	6.0	5.1	5.1	3.4	3.8	2.9	7.7	
DEPTH=	9.2	11.4	9.3	7.2	7.2	3.8	4.7	2.9	11.2	

\*SECNO 16.004

3470 ENCROACHMENT STATIONS=	9257.0	10250.0	TYPE=	1	TARGET=	993.000			
16.004	13.17	1112.87	1108.05	.00	1113.35	.48	.56	.02	1108.90
34500.0	17238.8	17261.2	.0	3872.0	2663.5	.0	16787.0	3985.9	1122.80
4.05	4.45	6.48	.00	.040	.035	.000	.000	1099.70	9260.63
.000933	505.	501.	500.	2	11	0	.00	802.26	10062.89

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SECNO	DEPTH	CWSEL	CRWS	WSELK	EG	HV	HL	OLOSS	L-BANK ELEV
Q	QLOB	QCH	QROB	ALOB	ACH	AROB	VOL	TWA	R-BANK ELEV
TIME	VLOB	VCH	VROB	XNL	XNCH	XNR	WTN	ELMIN	SSTA
SLOPE	XLOBL	XLCH	XLOBR	ITRIAL	IDC	ICONT	CORAR	TOPWID	ENDST

FLOW DISTRIBUTION FOR SECNO= 16.00 CWSEL= 1112.87

STA=	9261.	9330.	9366.	9418.	9504.	9589.	9646.	9808.	9831.	10077.
PER Q=	5.4	3.0	3.1	11.2	15.6	6.6	4.6	.6	50.0	
AREA=	452.7	252.3	295.5	781.0	949.5	480.2	583.6	77.2	2663.5	
VEL=	4.1	4.1	3.6	4.9	5.7	4.7	2.7	2.5	6.5	
DEPTH=	6.6	6.9	5.8	9.1	11.2	8.4	3.6	3.3	11.5	

\*SECNO 16.099

3470 ENCROACHMENT STATIONS= 9192.0 10300.0 TYPE= 1 TARGET= 1108.000  
 16.099 12.52 1113.32 1109.90 .00 1113.91 .60 .52 .04 1105.50  
 34500.0 13293.7 21206.3 .0 3198.9 2943.6 .0 16860.1 3995.4 1120.70  
 4.08 4.16 7.20 .00 .040 .035 .000 .000 1100.80 9228.22  
 .001173 505. 500. 495. 2 16 0 .00 839.07 10067.29

FLOW DISTRIBUTION FOR SECNO= 16.10 CWSEL= 1113.32

STA= 9228. 9274. 9313. 9366. 9467. 9568. 9624. 9668. 9705. 9753. 9804. 10081.  
 PER Q= 3.5 4.3 3.6 4.3 3.2 3.0 4.3 3.5 4.0 5.0 61.5  
 AREA= 270.3 296.6 303.5 437.7 363.2 279.3 315.3 258.3 309.8 364.8 2943.6  
 VEL= 4.4 4.9 4.1 3.4 3.0 3.7 4.7 4.7 4.4 4.7 7.2  
 DEPTH= 5.9 7.7 5.7 4.3 3.6 5.0 7.1 7.0 6.5 7.1 11.2

\*SECNO 16.195

3265 DIVIDED FLOW

3301 HV CHANGED MORE THAN HVINS

3470 ENCROACHMENT STATIONS= 9252.0 10350.0 TYPE= 1 TARGET= 1098.000  
 16.195 12.90 1113.70 1110.27 .00 1114.85 1.15 .77 .17 1105.40  
 34500.0 2928.8 31571.2 .0 668.1 3546.0 .0 16920.6 4003.5 1122.50  
 4.09 4.38 8.90 .00 .040 .035 .000 .000 1100.80 9345.85  
 .002027 510. 507. 505. 2 15 0 .00 561.69 10076.91

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SECNO	DEPTH	CWSEL	CRISWS	WSELK	EG	HV	HL	OLOSS	L-BANK ELEV
Q	QLOB	QCH	QROB	ALOB	ACH	AROB	VOL	TWA	R-BANK ELEV
TIME	VLOB	VCH	VROB	XNL	XNCH	XNR	WTN	ELMIN	SSTA
SLOPE	XLOBL	XLCH	XLOBR	ITRIAL	IDC	ICONT	CORAR	TOPWID	ENDST

FLOW DISTRIBUTION FOR SECNO= 16.19 CWSEL= 1113.70

STA= 9346. 9351. 9357. 9534. 9567. 9582. 9615. 9644. 9662. 9691. 9721. 9729. 10090.  
 PER Q= .0 .0 .1 1.4 .6 .3 .0 .3 1.8 2.8 1.0 91.5  
 AREA= 4.5 5.3 12.5 121.3 53.9 52.4 10.0 38.0 134.8 177.8 57.7 3546.0  
 VEL= 1.5 1.5 2.1 4.0 3.9 2.3 .8 2.7 4.7 5.5 6.2 8.9  
 DEPTH= .9 .9 .1 3.7 3.5 1.6 .3 2.1 4.6 5.9 7.4 10.2

\*SECNO 16.289

3470 ENCROACHMENT STATIONS= 9353.0 10350.0 TYPE= 1 TARGET= 997.000  
 16.289 13.89 1114.69 1110.94 .00 1115.88 1.18 1.02 .01 1111.70  
 34500.0 325.6 34174.4 .0 116.1 3895.6 .0 16967.9 4009.4 1121.80  
 4.11 2.81 8.77 .00 .040 .035 .000 .000 1100.80 9623.39  
 .002048 510. 500. 500. 2 16 0 .00 455.08 10078.46

FLOW DISTRIBUTION FOR SECNO= 16.29 CWSEL= 1114.69

STA= 9623. 9648. 9684. 10090.  
 PER Q= .1 .8 99.1  
 AREA= 26.1 90.0 3895.6  
 VEL= 1.8 3.1 8.8  
 DEPTH= 1.1 2.5 9.9

\*SECNO 16.385

3301 HV CHANGED MORE THAN HVINS

7185 MINIMUM SPECIFIC ENERGY  
 3720 CRITICAL DEPTH ASSUMED

3470 ENCROACHMENT STATIONS= 9392.8 10250.0 TYPE= 1 TARGET= 857.200  
 16.385 11.92 1115.62 1115.62 .00 1118.56 2.94 1.90 .53 1114.50  
 34500.0 746.3 33753.7 .0 153.8 2429.5 .0 17006.2 4014.8 1127.10  
 4.12 4.85 13.89 .00 .040 .035 .000 .000 1103.70 9617.34  
 .008958 505. 507. 505. 0 15 0 .00 470.37 10087.71

FLOW DISTRIBUTION FOR SECNO= 16.39 CWSEL= 1115.62

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SECNO	DEPTH	CWSEL	CRISWS	WSELK	EG	HV	HL	OLOSS	L-BANK ELEV
Q	QLOB	QCH	QROB	ALOB	ACH	AROB	VOL	TWA	R-BANK ELEV
TIME	VLOB	VCH	VROB	XNL	XNCH	XNR	WTN	ELMIN	SSTA
SLOPE	XLOBL	XLCH	XLOBR	ITRIAL	IDC	ICONT	CORAR	TOPWID	ENDST

STA= 9617. 9621. 9663. 9713. 10106.  
 PER Q= .0 1.0 1.1 97.8  
 AREA= 2.9 71.6 79.2 2429.5

VEL= 2.7 5.1 4.8 13.9  
DEPTH= .7 1.7 1.6 6.5

\*SECNO 16.471

3301 HV CHANGED MORE THAN HVINS

3302 WARNING: CONVEYANCE CHANGE OUTSIDE OF ACCEPTABLE RANGE, KRATIO = 2.17

3470 ENCROACHMENT STATIONS= 9307.0 10263.5 TYPE= 1 TARGET= 956.500  
 16.471 13.72 1119.12 1115.46 .00 1120.41 1.29 1.69 .16 1112.00  
 36000.0 .1118.8 34642.3 238.9 242.5 3740.1 57.8 17040.6 4019.5 1113.60  
 4.13 4.61 9.26 4.14 .040 .035 .040 .000 1105.40 9741.13  
 .002069 410. 454. 580. 2 15 0 .00 438.30 10179.43

FLOW DISTRIBUTION FOR SECNO= 16.47 CWSSEL= 1119.12

STA= 9741. 9761. 9765. 9771. 9802. 9807. 10163. 10170. 10179.  
 PER Q= .1 .1 .2 2.2 .5 96.2 .5 .2  
 AREA= 23.5 9.3 18.0 158.6 33.1 3740.1 35.3 22.5  
 VEL= 1.9 3.0 3.5 5.0 5.9 9.3 5.0 2.8  
 DEPTH= 1.2 2.3 3.2 5.1 6.6 10.5 5.1 2.4

CCHV= .300 CEHV= .500

\*SECNO 16.482

3470 ENCROACHMENT STATIONS= 9750.0 10290.0 TYPE= 1 TARGET= 540.000  
 \*\*\*\*\*  
 \*\*\*\*\* GRAND AVENUE \*\*\*\*\*  
 \*\*\*\*\* LOW CHORD = 1126.6 \*\*\*\*\*  
 \*\*\*\*\*  
 16.482 14.05 1119.65 1114.86 .00 1120.61 .96 .10 .10 1122.10  
 36000.0 .0 35997.2 2.8 .0 4567.4 2.4 17046.3 4020.0 1117.60  
 4.14 .00 7.88 1.17 .000 .035 .040 .000 1105.60 9788.39  
 .001505 45. 58. 70. 2 19 0 .00 437.96 10226.35

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SECNO	DEPTH	CWSSEL	CRISWS	WSELK	EG	HV	HL	OLOSS	L-BANK ELEV
Q	QLOB	QCH	QROB	ALOB	ACH	AROB	VOL	TWA	R-BANK ELEV
TIME	VLOB	VCH	VROB	XNL	XNCH	XNR	WTN	ELMIN	SSTA
SLOPE	XLOBL	XLCH	XLOBR	ITRIAL	IDC	ICONT	CORAR	TOPWID	ENDST

FLOW DISTRIBUTION FOR SECNO= 16.48 CWSSEL= 1119.65

STA= 9788. 10220. 10226.  
 PER Q= 100.0 .0  
 AREA= 4567.4 2.4  
 VEL= 7.9 1.2  
 DEPTH= 10.6 .4

SPECIAL BRIDGE

SB	XK	XKOR	COFQ	RDLEN	BWC	BWP	BAREA	SS	ELCHU	ELCHD
1.05	1.56	2.70	.00	400.00	27.00	8080.20	3.50	1109.00	1109.00	

\*SECNO 16.506

ETCARD, BRIDGE STENCL= 9730.00 STENCR= 10265.00  
 CLASS A LOW FLOW

3420 BRIDGE W.S.= 1119.49 BRIDGE VELOCITY= 8.38 CALCULATED CHANNEL AREA= 4297.

EGPRS	EGLWC	H3	QWEIR	QLOW	BAREA	TRAPEZOID AREA	ELLC	ELTRD	WEIRLN
.00	1120.80	.17	0.	36000.	8080.	9221.	1129.70	1130.60	0.

3470 ENCROACHMENT STATIONS= 9730.0 10265.0 TYPE= 1 TARGET= 535.000  
 16.506 14.42 1119.82 .00 .00 1120.80 .98 .19 .00 1122.20  
 36000.0 .0 36000.0 .0 .0 4529.6 .0 17059.6 4021.3 1122.40  
 4.14 .00 7.95 .00 .000 .035 .000 .000 1105.40 9777.90  
 .001674 125. 127. 125. 0 0 0 .00 460.30 10238.20

FLOW DISTRIBUTION FOR SECNO= 16.51 CWSSEL= 1119.82

STA= 9778. 10245.  
 PER Q= 100.0  
 AREA= 4529.6  
 VEL= 7.9  
 DEPTH= 9.8

\*SECNO 16.514

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SECNO	DEPTH	CWSEL	CRISW	WSELK	EG	HV	HL	OLOSS	L-BANK ELEV
Q	QLOB	QCH	QROB	ALOB	ACH	AROB	VOL	TWA	R-BANK ELEV
TIME	VLOB	VCH	VROB	XLN	XNCH	XNR	WTN	ELMIN	SSTA
SLOPE	XLOBL	XLCH	XLOBR	ITRIAL	IDC	ICONT	CORAR	TOPWID	ENDST

3470 ENCROACHMENT STATIONS= 9780.0 10251.0 TYPE= 1 TARGET= 471.000

\*\*\*\*\*  
\*\*\*\*\* SANTA FE R.R. \*\*\*\*\*  
\*\*\*\*\* LOW CHORD = 1129.9 \*\*\*\*\*  
\*\*\*\*\*

16.514	13.97	1119.67	1116.35	.00	1121.12	1.45	.08	.23	1117.10
36000.0	3.8	35389.3	606.9	2.4	3635.3	156.3	17063.6	4021.8	1115.60
4.14	1.54	9.73	3.88	.040	.035	.040	.000	1105.70	9798.59
.002440	42.	42.	42.	2	19	0	.00	425.34	10223.93

FLOW DISTRIBUTION FOR SECNO= 16.51 CWSEL= 1119.67

STA=	9799.	9801.	10163.	10176.	10197.	10208.	10220.	10224.
PER Q=	.0	98.3	.7	.7	.2	.1	.0	
AREA=	2.4	3635.3	55.3	67.2	20.5	12.6	.7	
VEL=	1.5	9.7	4.7	3.9	2.9	1.9	.6	
DEPTH=	1.3	10.0	4.1	3.2	2.0	1.0	.2	

SPECIAL BRIDGE

SB	XK	XKOR	COFQ	RDLEN	BWC	BWP	BAREA	SS	ELCHU	ELCHD
1.05	1.56	2.60	.00	390.00	72.00	7100.00	2.00	1110.00	1110.00	

\*SECNO 16.518  
BTCARD, BRIDGE STENCL= 9775.00 STENCR= 10260.00  
CLASS A LOW FLOW

3420 BRIDGE W.S.= 1118.09 BRIDGE VELOCITY= 13.32 CALCULATED CHANNEL AREA= 2703.

EGPRS	EGLWC	H3	QWEIR	QLOW	BAREA	TRAPEZOID AREA	ELLC	ELTRD	WEIRLN
.00	1122.00	1.13	0.	36000.	7100.	7120.	1129.90	1132.00	0.

3470 ENCROACHMENT STATIONS= 9775.0 10260.0 TYPE= 1 TARGET= 485.000

16.518	15.10	1120.80	.00	.00	1122.00	1.20	.88	.00	1113.30
36000.0	383.8	34900.2	716.0	95.3	3914.0	201.8	17067.3	4022.2	1115.20
4.14	4.03	8.92	3.55	.050	.040	.050	.000	1105.70	9794.61
.002368	40.	40.	40.	0	0	0	.00	435.14	10229.75

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SECNO	DEPTH	CWSEL	CRISW	WSELK	EG	HV	HL	OLOSS	L-BANK ELEV
Q	QLOB	QCH	QROB	ALOB	ACH	AROB	VOL	TWA	R-BANK ELEV
TIME	VLOB	VCH	VROB	XLN	XNCH	XNR	WTN	ELMIN	SSTA
SLOPE	XLOBL	XLCH	XLOBR	ITRIAL	IDC	ICONT	CORAR	TOPWID	ENDST

FLOW DISTRIBUTION FOR SECNO= 16.52 CWSEL= 1120.80

STA=	9795.	9802.	9817.	10174.	10186.	10217.	10225.	10230.
PER Q=	.1	1.0	96.9	.7	1.1	.2	.0	
AREA=	14.3	81.0	3914.0	58.6	115.3	21.6	6.3	
VEL=	2.3	4.3	8.9	4.3	3.4	2.8	1.6	
DEPTH=	1.8	5.4	11.0	5.1	3.6	2.7	1.3	

CCHV= .100 CEHV= .300

\*SECNO 16.612

3470 ENCROACHMENT STATIONS= 9793.5 10286.5 TYPE= 1 TARGET= 493.000

16.612	13.64	1121.94	1117.34	.00	1123.14	1.20	1.13	.00	1112.10
36000.0	140.7	35607.6	251.7	45.0	4033.8	77.9	17114.6	4026.7	1115.60
4.16	3.13	8.83	3.23	.050	.040	.050	.000	1108.30	9799.05
.002207	545.	499.	260.	2	14	0	.00	387.02	10186.07

FLOW DISTRIBUTION FOR SECNO= 16.61 CWSEL= 1121.94

STA=	9799.	9808.	10161.	10168.	10186.
PER Q=	.4	98.9	.4	.3	
AREA=	45.0	4033.8	35.1	42.8	
VEL=	3.1	8.8	4.2	2.4	
DEPTH=	4.9	11.4	5.5	2.3	

\*SECNO 16.707

3470 ENCROACHMENT STATIONS= 9790.4 10276.3 TYPE= 1 TARGET= 485.899

16.707	15.40	1123.10	1118.11	.00	1124.22	1.12	1.08	.01	1112.60
36000.0	181.0	35819.0	.0	55.4	4205.6	.0	17162.9	4031.1	1124.60
4.18	3.27	8.52	.00	.050	.040	.000	.000	1107.70	9794.94
.002096	500.	500.	510.	0	15	0	.00	383.73	10178.67

FLOW DISTRIBUTION FOR SECNO= 16.71 CWSEL= 1123.10

STA= 9795. 9806. 10185.  
PER Q= .5 99.5  
AREA= 55.4 4205.6  
VEL= 3.3 8.5  
DEPTH= 5.2 11.3

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SECNO	DEPTH	CWSEL	CRISW	WSELK	EG	HV	HL	OLOSS	L-BANK ELEV
Q	QLOB	QCH	QROB	ALOB	ACH	AROB	VOL	TWA	R-BANK ELEV
TIME	VLOB	VCH	VROB	XNL	XNCH	XNR	WTN	ELMIN	SSTA
SLOPE	XLOBL	XLCH	XLOBR	ITRIAL	IDC	ICONT	CORAR	TOPWID	ENDST

\*SECNO 16.801

3470 ENCROACHMENT STATIONS= 9711.5 10200.0 TYPE= 1 TARGET= 488.500  
16.801 21.52 1124.22 1118.49 .00 1125.17 .95 .93 .02 1112.70  
36000.0 1620.7 34379.3 .0 418.2 4315.3 .0 17214.3 4035.8 1128.10  
4.19 3.88 7.97 .00 .050 .040 .000 1102.70 9737.88  
.001675 495. 498. 495. 2 8 0 .00 430.35 10168.23

FLOW DISTRIBUTION FOR SECNO= 16.80 CWSEL= 1124.22

STA= 9738. 9811. 10182.  
PER Q= 4.5 95.5  
AREA= 418.2 4315.3  
VEL= 3.9 8.0  
DEPTH= 5.8 12.1

\*SECNO 16.895

3470 ENCROACHMENT STATIONS= 9810.8 10200.0 TYPE= 1 TARGET= 389.200  
16.895 15.19 1124.99 1119.57 .00 1126.07 1.08 .86 .04 1113.20  
36000.0 290.1 35665.0 44.8 83.7 4261.1 22.9 17266.1 4040.3 1120.90  
4.21 3.47 8.37 1.96 .050 .040 .050 .000 1109.80 9815.51  
.001814 500. 495. 505. 2 14 0 .00 373.30 10188.81

FLOW DISTRIBUTION FOR SECNO= 16.90 CWSEL= 1124.99

STA= 9816. 9830. 10178. 10189.  
PER Q= .8 99.1 .1  
AREA= 83.7 4261.1 22.9  
VEL= 3.5 8.4 2.0  
DEPTH= 5.9 12.2 2.0

\*SECNO 16.990

3470 ENCROACHMENT STATIONS= 9725.4 10150.0 TYPE= 1 TARGET= 424.600  
16.990 35.26 1125.86 1120.49 .00 1127.08 1.22 .96 .04 1113.30  
36000.0 441.9 35558.1 .0 110.6 3993.6 .0 17314.7 4044.4 1125.60  
4.23 4.00 8.90 .01 .050 .040 .050 .000 1090.60 9792.38  
.002053 495. 500. 475. 1 18 0 .00 343.41 10135.79

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SECNO	DEPTH	CWSEL	CRISW	WSELK	EG	HV	HL	OLOSS	L-BANK ELEV
Q	QLOB	QCH	QROB	ALOB	ACH	AROB	VOL	TWA	R-BANK ELEV
TIME	VLOB	VCH	VROB	XNL	XNCH	XNR	WTN	ELMIN	SSTA
SLOPE	XLOBL	XLCH	XLOBR	ITRIAL	IDC	ICONT	CORAR	TOPWID	ENDST

FLOW DISTRIBUTION FOR SECNO= 16.99 CWSEL= 1125.86

STA= 9792. 9810. 10135.  
PER Q= 1.2 98.8  
AREA= 110.6 3993.6  
VEL= 4.0 8.9  
DEPTH= 6.3 12.3

\*SECNO 17.085

3470 ENCROACHMENT STATIONS= 9678.3 10150.0 TYPE= 1 TARGET= 471.700  
17.085 38.14 1127.04 1122.14 .00 1128.11 1.07 1.02 .01 1121.80  
36000.0 41.8 35512.0 446.2 18.9 4246.6 117.2 17363.5 4048.8 1122.40  
4.24 2.21 8.36 3.81 .050 .040 .050 .000 1088.90 9728.47  
.002025 570. 501. 430. 2 10 0 .00 409.76 10138.24

FLOW DISTRIBUTION FOR SECNO= 17.08 CWSEL= 1127.04

STA= 9728. 9736. 10113. 10118. 10127. 10138.  
PER Q= .1 98.6 .3 .7 .3  
AREA= 18.9 4246.6 26.1 55.1 36.0

VEL= 2.2 8.4 4.0 4.5 2.6  
DEPTH= 2.6 11.3 5.4 6.2 3.1

\*SECNO 17.180

3470 ENCROACHMENT STATIONS= 9468.1 10150.0 TYPE= 1 TARGET= 681.900  
17.180 40.42 1128.12 1123.27 .00 1129.16 1.04 1.04 .00 1124.80  
36000.0 879.1 35120.9 .0 347.6 4244.5 .0 17415.5 4054.4 1130.90  
4.26 2.53 8.27 .00 .050 .040 .000 .000 1087.70 9569.10  
.002125 645. 502. 350. 2 10 0 .00 536.58 10105.68

FLOW DISTRIBUTION FOR SECNO= 17.18 CWSEL= 1128.12

STA= 9569. 9574. 9615. 9655. 9668. 9711. 10113.  
PER Q= .0 .5 .6 .3 1.0 97.6  
AREA= 6.5 81.4 94.4 39.2 126.0 4244.5  
VEL= 1.5 2.2 2.4 2.9 2.8 8.3  
DEPTH= 1.4 2.0 2.4 3.0 2.9 10.8

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SECNO	DEPTH	CWSEL	CRISWS	WSELK	EG	HV	HL	OLOSS	L-BANK ELEV
Q	QLOB	QCH	QROB	ALOB	ACH	AROB	VOL	TWA	R-BANK ELEV
TIME	VLOB	VCH	VROB	XNL	XNCH	XNR	WTN	ELMIN	SSTA
SLOPE	XLOBL	XLCH	XLOBR	ITRIAL	IDC	ICONT	CORAR	TOPWID	ENDST

\*SECNO 17.277

3265 DIVIDED FLOW

3301 HV CHANGED MORE THAN HVINS

3302 WARNING: CONVEYANCE CHANGE OUTSIDE OF ACCEPTABLE RANGE, KRATIO = 1.98

3470 ENCROACHMENT STATIONS= 9081.6 10370.0 TYPE= 1 TARGET= 1288.400  
17.277 41.94 1129.54 1123.01 .00 1129.76 .22 .52 .08 1120.80  
36000.0 14401.2 19587.6 2011.2 4623.4 4559.1 861.1 17510.3 4065.3 1126.20  
4.30 3.11 4.30 2.34 .050 .040 .050 .000 1087.60 9230.33  
.000544 700. 512. 305. 2 18 0 .00 1122.82 10370.00

FLOW DISTRIBUTION FOR SECNO= 17.28 CWSEL= 1129.54

STA= 9230. 9398. 9556. 9624. 9800. 10208. 10312. 10370.  
PER Q= 4.1 14.5 8.5 12.9 54.4 4.9 .7  
AREA= 620.1 1610.4 832.1 1560.8 4559.1 698.6 162.6  
VEL= 2.4 3.2 3.7 3.0 4.3 2.5 1.5  
DEPTH= 3.7 10.1 12.3 8.9 11.2 6.8 2.8

\*SECNO 17.370

3470 ENCROACHMENT STATIONS= 8536.2 10208.5 TYPE= 1 TARGET= 1672.300  
17.370 43.24 1129.84 1123.65 .00 1130.07 .22 .30 .00 1120.50  
36000.0 15417.7 20533.4 48.9 5544.4 4660.5 37.1 17638.7 4080.0 1124.40  
4.34 2.78 4.41 1.32 .050 .040 .050 .000 1086.60 8986.58  
.000571 635. 487. 270. 2 13 0 .00 1187.56 10174.14

FLOW DISTRIBUTION FOR SECNO= 17.37 CWSEL= 1129.84

STA= 8987. 9169. 9256. 9431. 9555. 9724. 9740. 10161. 10174.  
PER Q= 11.3 4.1 5.4 12.4 8.7 .9 57.0 .1  
AREA= 1431.3 579.4 914.1 1304.1 1195.7 119.9 4660.5 37.1  
VEL= 2.8 2.5 2.1 3.4 2.6 2.7 4.4 1.3  
DEPTH= 7.8 6.7 5.2 10.5 7.0 7.5 11.1 2.7

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SECNO	DEPTH	CWSEL	CRISWS	WSELK	EG	HV	HL	OLOSS	L-BANK ELEV
Q	QLOB	QCH	QROB	ALOB	ACH	AROB	VOL	TWA	R-BANK ELEV
TIME	VLOB	VCH	VROB	XNL	XNCH	XNR	WTN	ELMIN	SSTA
SLOPE	XLOBL	XLCH	XLOBR	ITRIAL	IDC	ICONT	CORAR	TOPWID	ENDST

\*SECNO 17.458

3265 DIVIDED FLOW

3470 ENCROACHMENT STATIONS= 8689.6 10450.0 TYPE= 1 TARGET= 1760.400  
17.458 38.94 1130.14 1124.84 .00 1130.40 .26 .32 .01 1126.40  
36000.0 5833.9 29810.2 355.9 2049.1 6883.6 227.6 17743.9 4093.5 1129.30  
4.37 2.85 4.33 1.56 .050 .040 .050 .000 1091.20 9014.04  
.000848 485. 467. 350. 2 19 0 .00 1330.00 10350.05

FLOW DISTRIBUTION FOR SECNO= 17.46 CWSEL= 1130.14  
 STA= 9014. 9069. 9174. 9292. 9371. 10225. 10350.  
 PER Q= 3.0 6.3 4.7 2.2 82.8 1.0  
 AREA= 345.8 725.4 633.7 344.3 6883.6 227.6  
 VEL= 3.1 3.1 2.7 2.3 4.3 1.6  
 DEPTH= 6.3 6.9 5.4 4.4 8.1 1.8

\*SECNO 17.548

3265 DIVIDED FLOW

3302 WARNING: CONVEYANCE CHANGE OUTSIDE OF ACCEPTABLE RANGE, KRATIO = .67

3470 ENCROACHMENT STATIONS= 8808.5 10334.4 TYPE= 1 TARGET= 1525.900  
 17.548 25.61 1130.61 1126.99 .00 1131.02 .41 .57 .04 1126.80  
 36000.0 5570.5 30429.5 .0 1352.8 5752.6 .0 17831.8 4107.3 1136.20  
 4.40 4.12 5.29 .00 .050 .040 .000 .000 1105.00 8990.19  
 .001903 465. 473. 445. 2 15 0 .00 1228.55 10234.03

FLOW DISTRIBUTION FOR SECNO= 17.55 CWSEL= 1130.61

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SECNO	DEPTH	CWSEL	CRISW	WSELK	EG	HV	HL	OLOSS	L-BANK ELEV
Q	QLOB	QCH	QROB	ALOB	ACH	AROB	VOL	TWA	R-BANK ELEV
TIME	VLOB	VCH	VROB	XNL	XNCH	XNR	WTN	ELMIN	SSTA
SLOPE	XLOBL	XLCH	XLOBR	ITRIAL	IDC	ICONT	CORAR	TOPWID	ENDST

STA= 8990. 9001. 9033. 9051. 9063. 9094. 9119. 9147. 9155. 9183. 9203. 9217. 9247.  
 PER Q= .1 1.8 .9 .5 1.4 1.1 1.8 .8 4.3 1.1 .4 1.4  
 AREA= 22.3 163.1 86.5 53.5 140.6 110.7 159.7 60.0 265.9 104.3 49.2 137.0  
 VEL= 2.0 3.9 3.7 3.5 3.5 3.5 4.1 4.8 5.8 3.7 2.9 3.6  
 DEPTH= 2.0 5.2 4.9 4.5 4.5 4.4 5.7 8.1 9.5 5.2 3.5 4.6

STA= 9247. 10256.  
 PER Q= 84.5  
 AREA= 5752.6  
 VEL= 5.3  
 DEPTH= 5.9

\*SECNO 17.638

3265 DIVIDED FLOW

3301 HV CHANGED MORE THAN HVINS

7185 MINIMUM SPECIFIC ENERGY  
 3720 CRITICAL DEPTH ASSUMED

3470 ENCROACHMENT STATIONS= 8744.2 10386.4 TYPE= 1 TARGET= 1642.200  
 17.638 27.46 1133.86 1133.86 .00 1135.53 1.67 2.19 .38 1130.80  
 37500.0 22065.7 15423.0 11.3 2176.3 1445.0 5.6 17891.0 4120.4 1134.60  
 4.41 10.14 10.67 2.01 .050 .040 .050 .000 1106.40 9158.67  
 .020216 490. 476. 450. 0 10 0 .00 1135.41 10319.92

FLOW DISTRIBUTION FOR SECNO= 17.64 CWSEL= 1133.86

SECNO	DEPTH	CWSEL	CRISW	WSELK	EG	HV	HL	OLOSS	L-BANK ELEV
Q	QLOB	QCH	QROB	ALOB	ACH	AROB	VOL	TWA	R-BANK ELEV
TIME	VLOB	VCH	VROB	XNL	XNCH	XNR	WTN	ELMIN	SSTA
SLOPE	XLOBL	XLCH	XLOBR	ITRIAL	IDC	ICONT	CORAR	TOPWID	ENDST

\*SECNO 17.730

3265 DIVIDED FLOW

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SECNO	DEPTH	CWSEL	CRISW	WSELK	EG	HV	HL	OLOSS	L-BANK ELEV
Q	QLOB	QCH	QROB	ALOB	ACH	AROB	VOL	TWA	R-BANK ELEV
TIME	VLOB	VCH	VROB	XNL	XNCH	XNR	WTN	ELMIN	SSTA
SLOPE	XLOBL	XLCH	XLOBR	ITRIAL	IDC	ICONT	CORAR	TOPWID	ENDST

3301 HV CHANGED MORE THAN HVINS

3302 WARNING: CONVEYANCE CHANGE OUTSIDE OF ACCEPTABLE RANGE, KRATIO = 2.34

3470 ENCROACHMENT STATIONS= 8355.0 10373.1 TYPE= 1 TARGET= 2018.100  
 17.730 38.44 1138.24 1137.30 .00 1139.09 .85 3.48 .08 1136.40

37500.0	7213.3	29532.5	754.2	2395.6	3608.0	227.0	17945.4	4137.0	1134.40
4.43	3.01	8.19	3.32	.050	.040	.050	.000	1099.80	8381.71
.003678	475.	486.	490.	5	16	0	.00	1886.93	10361.85

FLOW DISTRIBUTION FOR SECNO= 17.73 CWSEL= 1138.24

STA=	8382.	8619.	9015.	9187.	9375.	9543.	9719.	9727.	10247.	10362.
PER Q=	3.1	3.1	3.2	3.5	3.1	3.2	.1	78.8	2.0	
AREA=	382.3	427.5	384.7	422.8	375.7	389.6	13.0	3608.0	227.0	
VEL=	3.1	2.7	3.1	3.1	3.1	3.1	2.6	8.2	3.3	
DEPTH=	1.6	1.1	2.2	2.2	2.2	2.2	1.7	6.9	2.0	

\*SECNO 17.821

3265 DIVIDED FLOW

3302 WARNING: CONVEYANCE CHANGE OUTSIDE OF ACCEPTABLE RANGE, KRATIO = 1.49

3470 ENCROACHMENT STATIONS=	8350.0	10270.0	TYPE=	1	TARGET=	1920.000			
17.821	9.61	1139.61	1137.83	.00	1140.25	.64	1.14	.02	1137.00
37500.0	8665.4	28620.8	213.8	3320.3	3971.4	101.7	18020.0	4157.4	1138.70
4.45	2.61	7.21	2.10	.045	.035	.050	.000	1130.00	8350.00
.001663	475.	478.	480.	3	18	0	.00	1850.84	10270.00

FLOW DISTRIBUTION FOR SECNO= 17.82 CWSEL= 1139.61

STA=	8350.	8496.	8865.	9042.	9239.	9478.	9666.	9765.	10228.	10270.
PER Q=	3.1	4.0	3.1	3.5	4.2	3.3	1.8	76.3	.6	
AREA=	315.9	657.0	460.9	515.9	623.6	489.3	257.7	3971.4	101.7	
VEL=	3.7	2.3	2.6	2.6	2.6	2.6	2.6	7.2	2.1	
DEPTH=	2.2	1.8	2.6	2.6	2.6	2.6	2.6	8.6	2.4	

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SECNO	DEPTH	CWSEL	CRISWS	WSELK	EG	HV	HL	OLOSS	L-BANK ELEV
Q	QLOB	QCH	QROB	ALOB	ACH	AROB	VOL	TWA	R-BANK ELEV
TIME	VLOB	VCH	VROB	XNL	XNCH	XNR	WTN	ELMIN	SSTA
SLOPE	XLOBL	XLCH	XLOBR	ITRIAL	IDC	ICONT	CORAR	TOPWID	ENDST

\*SECNO 17.910

3302 WARNING: CONVEYANCE CHANGE OUTSIDE OF ACCEPTABLE RANGE, KRATIO = 1.49

3470 ENCROACHMENT STATIONS=	8380.0	10930.0	TYPE=	1	TARGET=	2550.000			
17.910	10.47	1140.47	1136.54	.00	1140.78	.31	.50	.03	1138.00
37500.0	5554.6	26479.8	5465.6	3361.8	5136.2	2461.4	18115.6	4179.9	1133.30
4.48	1.65	5.16	2.22	.045	.035	.050	.000	1130.00	8380.00
.000750	445.	475.	400.	2	14	0	.00	2550.00	10930.00

FLOW DISTRIBUTION FOR SECNO= 17.91 CWSEL= 1140.47

STA=	8380.	8696.	8972.	9252.	9563.	9740.	10288.	10515.	10702.	10930.
PER Q=	3.4	3.0	3.1	3.4	1.9	70.6	8.4	5.1	1.1	
AREA=	781.0	681.9	692.5	769.4	437.1	5136.2	1241.7	852.6	367.1	
VEL=	1.6	1.7	1.7	1.7	1.7	5.2	2.5	2.2	1.1	
DEPTH=	2.5	2.5	2.5	2.5	2.5	9.4	5.5	4.6	1.6	

\*SECNO 18.000

3265 DIVIDED FLOW

3470 ENCROACHMENT STATIONS=	8450.0	10900.0	TYPE=	1	TARGET=	2450.000			
18.000	10.86	1140.86	1137.21	.00	1141.20	.33	.41	.01	1135.20
37500.0	3462.1	23969.4	10068.5	2199.6	4449.7	3260.6	18228.4	4206.0	1136.70
4.51	1.57	5.39	3.09	.045	.035	.050	.000	1130.00	8450.00
.000993	435.	475.	500.	2	19	0	.00	2374.79	10844.31

FLOW DISTRIBUTION FOR SECNO= 18.00 CWSEL= 1140.86

STA=	8450.	8960.	9345.	9656.	10206.	10381.	10435.	10476.	10689.	10844.
PER Q=	4.0	3.0	2.2	63.9	6.0	5.5	5.5	7.8	2.1	
AREA=	950.3	717.3	532.0	4449.7	841.7	496.0	451.9	1056.4	414.7	
VEL=	1.6	1.6	1.6	5.4	2.7	4.1	4.6	2.8	1.9	
DEPTH=	1.9	1.9	1.7	8.1	4.8	9.1	10.9	5.0	2.7	

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SECNO	DEPTH	CWSEL	CRISWS	WSELK	EG	HV	HL	OLOSS	L-BANK ELEV
Q	QLOB	QCH	QROB	ALOB	ACH	AROB	VOL	TWA	R-BANK ELEV
TIME	VLOB	VCH	VROB	XNL	XNCH	XNR	WTN	ELMIN	SSTA
SLOPE	XLOBL	XLCH	XLOBR	ITRIAL	IDC	ICONT	CORAR	TOPWID	ENDST

\*SECNO 18.093

3265 DIVIDED FLOW

3470 ENCROACHMENT STATIONS=	8520.0	10855.0	TYPE=	1	TARGET=	2335.000				
18.093	11.47	1141.37	1138.46	.00	1141.89	.51	.64	.05	1138.20	
37500.0	2474.7	24879.4	10145.9	1465.5	3829.3	2425.3	18327.4	4229.7	1137.80	
4.54	1.69	6.50	4.18	.045	.035	.050	.000	1129.90	8520.00	
.001727	430.	491.	525.	2	16	0	.00	2053.04	10665.07	

FLOW DISTRIBUTION FOR SECNO= 18.09 CWSSEL= 1141.37

STA=	8520.	9145.	9692.	10232.	10428.	10499.	10542.	10653.	10665.
PER Q=	3.9	2.7	66.3	8.9	6.2	7.1	4.9	.1	
AREA=	859.2	606.3	3829.3	944.9	496.9	449.3	514.8	19.3	
VEL=	1.7	1.7	6.5	3.5	4.7	5.9	3.5	1.6	
DEPTH=	1.4	1.1	7.1	4.8	7.1	10.4	4.6	1.6	

\*SECNO 18.182

3265 DIVIDED FLOW

3470 ENCROACHMENT STATIONS=	8640.0	10730.0	TYPE=	1	TARGET=	2090.000				
18.182	12.37	1142.17	1139.93	.00	1142.91	.74	.95	.07	1137.10	
37500.0	2442.3	25591.5	9466.2	1263.5	3244.0	2158.9	18404.5	4250.0	1138.30	
4.56	1.93	7.89	4.38	.045	.035	.050	.000	1129.80	8640.00	
.002397	410.	467.	500.	2	11	0	.00	1928.79	10622.06	

FLOW DISTRIBUTION FOR SECNO= 18.18 CWSSEL= 1142.17

STA=	8640.	9179.	9739.	10176.	10391.	10470.	10516.	10548.	10588.	10622.
PER Q=	3.0	3.5	68.2	8.3	3.5	4.3	4.3	4.0	.8	
AREA=	630.4	633.1	3244.0	854.3	342.7	309.4	269.6	282.1	100.8	
VEL=	1.8	2.1	7.9	3.6	3.9	5.2	5.9	5.4	3.0	
DEPTH=	1.2	1.1	7.4	4.0	4.3	6.8	8.2	7.1	3.0	

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SECNO	DEPTH	CWSSEL	CRISW	WSELK	EG	HV	HL	OLOSS	L-BANK ELEV
Q	QLOB	QCH	QROB	ALOB	ACH	AROB	VOL	TWA	R-BANK ELEV
TIME	VLOB	VCH	VROB	XNL	XNCH	XNR	WTN	ELMIN	SSTA
SLOPE	XLOBL	XLCH	XLOBR	ITRIAL	IDC	ICONT	CORAR	TOPWID	ENDST

\*SECNO 18.275

3470 ENCROACHMENT STATIONS=	8740.0	10715.0	TYPE=	1	TARGET=	1975.000				
18.275	13.31	1143.41	1141.78	.00	1144.11	.70	1.19	.00	1139.50	
37500.0	4623.5	25511.1	7365.4	1741.6	3279.3	1865.0	18480.6	4270.8	1140.10	
4.58	2.65	7.78	3.95	.045	.035	.050	.000	1130.10	8779.86	
.002453	450.	491.	515.	3	8	0	.00	1873.00	10652.87	

FLOW DISTRIBUTION FOR SECNO= 18.27 CWSSEL= 1143.41

STA=	8780.	9188.	9580.	9699.	9752.	10211.	10415.	10517.	10612.	10653.
PER Q=	3.1	4.6	3.3	1.3	68.0	6.6	4.4	6.7	1.9	
AREA=	569.0	670.0	354.6	147.8	3279.3	726.0	429.8	538.0	171.1	
VEL=	2.0	2.6	3.5	3.3	7.8	3.4	3.8	4.7	4.1	
DEPTH=	1.4	1.7	3.0	2.8	7.2	3.6	4.2	5.7	4.2	

\*SECNO 18.369

3302 WARNING: CONVEYANCE CHANGE OUTSIDE OF ACCEPTABLE RANGE, KRATIO = .68

3470 ENCROACHMENT STATIONS=	8820.0	10759.0	TYPE=	1	TARGET=	1939.000				
18.369	20.92	1145.02	1144.24	.00	1145.90	.89	1.74	.06	1144.70	
37500.0	6451.8	17960.5	13087.8	1733.0	1919.9	2169.4	18552.7	4290.9	1141.70	
4.60	3.72	9.35	6.03	.045	.035	.050	.000	1124.10	8820.00	
.005324	435.	499.	540.	3	17	0	.00	1820.37	10640.37	

FLOW DISTRIBUTION FOR SECNO= 18.37 CWSSEL= 1145.02

STA=	8820.	9007.	9170.	9319.	9467.	9651.	9784.	10148.	10260.	10328.	10361.	10394.	10535.
PER Q=	3.9	3.4	3.1	3.1	3.4	.4	47.9	4.5	3.5	3.9	4.4	10.8	
AREA=	377.0	329.9	301.3	297.8	344.4	82.7	1919.9	360.9	251.8	201.1	217.4	661.6	
VEL=	3.8	3.8	3.8	3.8	3.7	1.9	9.4	4.7	5.2	7.2	7.6	6.1	
DEPTH=	2.0	2.0	2.0	2.0	1.9	.6	5.3	3.2	3.7	6.0	6.6	4.7	
STA=	10535.	10590.	10623.	10640.									
PER Q=	4.2	3.3	.3										
AREA=	258.0	182.9	35.8										
VEL=	6.1	6.8	3.4										
DEPTH=	4.7	5.5	2.1										

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AREA= 417.6 307.7 339.9 308.8 322.1 3391.8  
VEL= 3.2 3.7 3.6 5.0 5.5 9.0  
DEPTH= 1.7 2.3 2.3 3.9 4.5 6.4

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SECNO	DEPTH	CWSEL	CRISW	WSELK	EG	HV	HL	OLOSS	L-BANK ELEV
Q	QLOB	QCH	QROB	ALOB	ACH	AROB	VOL	TWA	R-BANK ELEV
TIME	VLOB	VCH	VROB	XNL	XNCH	XNR	WTN	ELMIN	SSTA
SLOPE	XLOBL	XLCH	XLOBR	ITRIAL	IDC	ICONT	CORAR	TOPWID	ENDST

\*SECNO 18.839

3265 DIVIDED FLOW

3302 WARNING: CONVEYANCE CHANGE OUTSIDE OF ACCEPTABLE RANGE, KRATIO = 1.46

3470 ENCROACHMENT STATIONS= 9250.0 10375.0 TYPE= 1 TARGET= 1125.000  
18.839 34.12 1153.92 1150.97 .00 1154.67 .74 1.19 .03 1149.20  
37500.0 4534.2 32941.0 24.9 1517.4 4516.3 12.7 18880.0 4366.8 1150.10  
4.70 2.99 7.29 1.96 .045 .035 .050 .000 1119.80 9250.00  
.001785 430. 480. 500. 2 12 0 .00 1083.25 10343.97

FLOW DISTRIBUTION FOR SECNO= 18.84 CWSEL= 1153.92

STA= 9250. 9446. 9665. 9775. 9788. 10337. 10344.  
PER Q= 3.3 4.6 3.3 .9 87.8 .1  
AREA= 469.4 619.3 354.6 74.1 4516.3 12.7  
VEL= 2.7 2.8 3.5 4.4 7.3 2.0  
DEPTH= 2.4 2.8 3.2 5.6 8.2 1.8

\*SECNO 18.937

3470 ENCROACHMENT STATIONS= 9364.7 10482.5 TYPE= 1 TARGET= 1117.800  
18.937 9.40 1155.10 1151.65 .00 1155.53 .43 .83 .03 1149.20  
37500.0 11841.8 17244.9 8413.3 2700.9 2857.8 1802.4 18955.8 4378.8 1149.70  
4.72 4.38 6.03 4.67 .045 .035 .050 .000 1145.70 9368.09  
.001547 430. 513. 555. 2 25 0 .00 1094.44 10462.53

FLOW DISTRIBUTION FOR SECNO= 18.94 CWSEL= 1155.10

STA= 9368. 9445. 9558. 9608. 9710. 9783. 9816. 10231. 10277. 10330. 10419. 10446. 10463.  
PER Q= 3.8 8.9 3.8 7.5 5.3 2.4 46.0 3.2 5.6 10.1 3.1 .5  
AREA= 357.2 734.0 314.6 638.9 453.4 202.8 2857.8 294.1 434.1 770.3 237.4 66.5  
VEL= 4.0 4.5 4.5 4.4 4.4 4.4 6.0 4.0 4.8 4.9 4.9 2.7  
DEPTH= 4.6 6.5 6.4 6.2 6.2 6.1 6.9 6.3 8.3 8.6 8.7 4.0

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SECNO	DEPTH	CWSEL	CRISW	WSELK	EG	HV	HL	OLOSS	L-BANK ELEV
Q	QLOB	QCH	QROB	ALOB	ACH	AROB	VOL	TWA	R-BANK ELEV
TIME	VLOB	VCH	VROB	XNL	XNCH	XNR	WTN	ELMIN	SSTA
SLOPE	XLOBL	XLCH	XLOBR	ITRIAL	IDC	ICONT	CORAR	TOPWID	ENDST

CCHV= .300 CEHV= .500

\*SECNO 18.962

3470 ENCROACHMENT STATIONS= 9391.2 10535.6 TYPE= 1 TARGET= 1144.399  
\*\*\*\*\*  
\*\*\*\*\* BELL ROAD \*\*\*\*\*  
\*\*\*\*\* LOW CHORD = 1160.5 \*\*\*\*\*  
\*\*\*\*\*  
18.962 9.08 1155.28 1152.41 .00 1155.80 .52 .23 .05 1150.40  
37500.0 10930.6 16614.2 9955.1 2311.6 2468.6 1909.9 18976.3 4381.9 1149.10  
4.73 4.73 6.73 5.21 .045 .035 .050 .000 1146.20 9418.37  
.002105 110. 132. 145. 2 23 0 .00 1065.08 10483.44

FLOW DISTRIBUTION FOR SECNO= 18.96 CWSEL= 1155.28

STA= 9418. 9435. 9840. 10224. 10226. 10251. 10260. 10281. 10287. 10416. 10466. 10483.  
PER Q= .4 28.7 44.3 .2 2.8 1.2 2.3 .5 13.6 5.4 .5  
AREA= 52.2 2259.4 2468.6 17.5 197.4 78.1 162.0 36.9 972.0 383.2 62.8  
VEL= 3.1 4.8 6.7 4.7 5.4 5.8 5.3 4.9 5.2 5.3 3.0  
DEPTH= 3.1 5.6 6.4 6.5 7.9 8.8 7.7 6.8 7.5 7.7 3.5

SPECIAL BRIDGE

SB	XK	XKOR	COFQ	RDLEN	BWC	BWP	BAREA	SS	ELCHU	ELCHD
1	1.05	1.56	2.70	.00	1050.00	60.00	16107.00	2.50	1149.50	1149.50

\*SECNO 18.978

BTCARD, BRIDGE STENCL= 9397.30 STENCR= 10543.50

CLASS A LOW FLOW

3420 BRIDGE W.S.= 1155.19 BRIDGE VELOCITY= 6.57 CALCULATED CHANNEL AREA= 5712.

EGPRS	EGLWC	H3	QWEIR	QLOW	BAREA	TRAPEZOID AREA	ELLC	ELTRD	WEIRLN
.00	1155.98	.08	0.	37500.	16107.	17230.	1166.20	1168.40	0.

3470 ENCROACHMENT STATIONS=	9397.3	10543.5	TYPE=	1	TARGET=	1146.200			
18.978	7.86	1155.36	.00	.00	1155.98	.61	.17	.00	1151.20
37500.0	10359.3	16983.6	10157.0	2138.3	2345.0	1733.8	18989.5	4384.1	1147.80
4.73	4.84	7.24	5.86	.045	.035	.050	.000	1147.50	9425.06
.002641	90.	86.	90.	0	0	0	.00	1067.58	10492.64

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SECNO	DEPTH	CWSEL	CRISW	WSELK	EG	HV	HL	OLOSS	L-BANK ELEV
Q	QLOB	QCH	QROB	ALOB	ACH	AROB	VOL	TWA	R-BANK ELEV
TIME	VLOB	VCH	VROB	XNL	XNCH	XNR	WTN	ELMIN	SSTA
SLOPE	XLOBL	XLCH	XLOBR	ITRIAL	IDC	ICONT	CORAR	TOPWID	ENDST

FLOW DISTRIBUTION FOR SECNO= 18.98 CWSEL= 1155.36

STA=	9425.	9440.	9450.	9863.	9871.	10258.	10439.	10447.	10477.	10478.	10493.
PER Q=	.3	.8	26.1	.4	45.3	22.2	1.0	3.3	.1	.4	
AREA=	40.4	57.9	2007.1	32.9	2345.0	1399.2	62.9	216.5	7.3	48.0	
VEL=	3.2	5.3	4.9	4.4	7.2	6.0	6.0	5.8	5.3	3.2	
DEPTH=	2.8	5.6	4.9	4.2	6.1	7.7	7.9	7.3	6.6	3.2	

\*SECNO 19.066

3470 ENCROACHMENT STATIONS=	9302.8	10778.8	TYPE=	1	TARGET=	1476.000			
19.066	7.26	1156.66	1155.11	.00	1157.38	.72	1.35	.05	1155.00
37500.0	9986.2	20978.9	6534.9	1999.5	2653.8	1230.9	19051.6	4396.4	1154.30
4.75	4.99	7.91	5.31	.045	.035	.045	.000	1149.40	9356.48
.003401	395.	465.	490.	2	19	0	.00	1354.76	10711.24

FLOW DISTRIBUTION FOR SECNO= 19.07 CWSEL= 1156.66

STA=	9356.	9451.	9521.	9649.	9744.	9870.	9886.	10349.	10555.	10595.	10627.	10685.	10711.
PER Q=	7.6	4.7	7.4	3.7	3.0	.1	55.9	3.6	3.8	4.3	4.2	4.2	1.5
AREA=	476.8	325.1	547.6	317.5	310.5	21.9	2653.8	383.5	232.5	226.3	282.7	106.0	
VEL=	6.0	5.5	5.1	4.3	3.6	2.4	7.9	3.5	6.2	7.2	5.6	5.1	
DEPTH=	5.0	4.7	4.3	3.3	2.5	1.4	5.7	1.9	5.8	7.2	4.9	4.0	

CCHV= .100 CEHV= .300

\*SECNO 19.162

3265 DIVIDED FLOW

3470 ENCROACHMENT STATIONS=	9000.0	10956.0	TYPE=	1	TARGET=	1956.000			
19.162	7.52	1158.42	1157.10	.00	1159.07	.65	1.69	.01	1158.30
37500.0	5515.0	19813.0	12172.0	1501.1	2560.4	2381.9	19121.8	4414.5	1155.10
4.78	3.67	7.74	5.11	.045	.035	.045	.000	1150.90	9000.00
.003367	480.	505.	500.	2	15	0	.00	1851.71	10884.08

FLOW DISTRIBUTION FOR SECNO= 19.16 CWSEL= 1158.42

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SECNO	DEPTH	CWSEL	CRISW	WSELK	EG	HV	HL	OLOSS	L-BANK ELEV
Q	QLOB	QCH	QROB	ALOB	ACH	AROB	VOL	TWA	R-BANK ELEV
TIME	VLOB	VCH	VROB	XNL	XNCH	XNR	WTN	ELMIN	SSTA
SLOPE	XLOBL	XLCH	XLOBR	ITRIAL	IDC	ICONT	CORAR	TOPWID	ENDST

STA=	9000.	9175.	9426.	9495.	9804.	10262.	10387.	10418.	10468.	10548.	10703.	10779.	10825.
PER Q=	3.3	4.9	3.8	2.6	52.8	5.6	3.4	3.8	3.0	3.8	5.7	4.6	
AREA=	308.7	518.8	289.1	384.6	2560.4	425.5	194.3	250.6	262.0	388.2	380.6	273.1	
VEL=	4.0	3.5	5.0	2.6	7.7	5.0	6.6	5.6	4.4	3.7	5.6	6.3	
DEPTH=	1.8	2.1	4.2	1.2	5.6	3.4	6.4	5.0	3.3	2.5	5.0	5.9	

STA= 10825. 10884.

PER Q= 2.5  
AREA= 207.6  
VEL= 4.5  
DEPTH= 3.5

\*SECNO 19.256

3265 DIVIDED FLOW

3301 HV CHANGED MORE THAN HVINS

3302 WARNING: CONVEYANCE CHANGE OUTSIDE OF ACCEPTABLE RANGE, KRATIO = .69

3470 ENCROACHMENT STATIONS= 8680.0 11047.0 TYPE= 1 TARGET= 2367.000  
 19.256 6.72 1160.32 1160.29 .00 1161.52 1.20 2.29 .16 1158.30  
 37500.0 9690.2 17982.9 9826.9 1939.3 1621.1 1464.9 19185.5 4436.4 1161.00  
 4.79 5.00 11.09 6.71 .045 .035 .045 .000 1153.60 8680.00  
 .007012 470. 497. 480. 2 12 0 .00 2122.51 11024.73

FLOW DISTRIBUTION FOR SECNO= 19.26 CWSEL= 1160.32

STA= 8680. 8787. 9104. 9241. 9454. 9514. 9557. 9786. 10082. 10811. 10845. 10914. 10964.  
 PER Q= 3.5 3.1 3.5 3.4 3.4 4.0 5.1 48.0 4.0 3.4 7.0 5.7  
 AREA= 255.5 333.9 251.7 255.8 202.4 194.6 445.5 1621.1 429.7 163.3 332.1 260.3  
 VEL= 5.1 3.5 5.2 4.9 6.3 7.7 4.3 11.1 3.5 7.8 7.9 8.3  
 DEPTH= 2.4 1.1 1.8 1.2 3.4 4.6 1.9 5.5 .6 4.8 4.8 5.2

STA= 10964. 11000. 11025.  
 PER Q= 4.5 1.5  
 AREA= 196.1 83.5  
 VEL= 8.6 6.8  
 DEPTH= 5.5 3.4

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SECNO	DEPTH	CWSEL	CRISW	WSELK	EG	HV	HL	OLOSS	L-BANK ELEV
Q	QLOB	QCH	QROB	ALOB	ACH	AROB	VOL	TWA	R-BANK ELEV
TIME	VLOB	VCH	VROB	XNL	XNCH	XNR	WTN	ELMIN	SSTA
SLOPE	XLOBL	XLCH	XLOBR	ITRIAL	IDC	ICONT	CORAR	TOPWID	ENDST

\*SECNO 19.352

3265 DIVIDED FLOW

3301 HV CHANGED MORE THAN HVINS

3302 WARNING: CONVEYANCE CHANGE OUTSIDE OF ACCEPTABLE RANGE, KRATIO = 1.75

19.352 8.38 1162.98 1161.69 .00 1163.44 .46 1.84 .07 1160.20  
 37500.0 10532.0 15992.9 10975.1 3131.6 2193.0 2986.2 19261.1 4463.5 1162.10  
 4.82 3.36 7.29 3.68 .045 .035 .045 .000 1154.60 8605.31  
 .002284 495. 510. 480. 2 8 0 .00 2686.04 11291.97

FLOW DISTRIBUTION FOR SECNO= 19.35 CWSEL= 1162.98

STA= 8605. 8839. 8947. 9030. 9249. 9348. 9500. 9585. 9743. 10064. 10398. 10761. 10906.  
 PER Q= 4.6 3.8 3.1 3.6 3.2 4.2 3.5 2.2 42.6 3.4 3.0 3.2  
 AREA= 500.6 385.1 303.7 487.9 337.1 463.7 335.8 317.8 2193.0 530.6 531.9 352.6  
 VEL= 3.4 3.7 3.8 2.7 3.6 3.4 3.9 2.6 7.3 2.4 2.1 3.4  
 DEPTH= 2.1 3.5 3.7 2.2 3.4 3.1 3.9 2.0 6.8 1.6 1.5 2.4

STA= 10906. 11005. 11107. 11158. 11292.  
 PER Q= 4.5 6.8 5.8 2.6  
 AREA= 412.4 525.3 370.0 263.5  
 VEL= 4.1 4.9 5.9 3.7  
 DEPTH= 4.1 5.2 7.2 2.0

\*SECNO 19.446

3265 DIVIDED FLOW

3470 ENCROACHMENT STATIONS= 8878.7 11361.8 TYPE= 1 TARGET= 2483.100  
 19.446 8.38 1164.08 1162.15 .00 1164.52 .44 1.08 .00 1159.00  
 37500.0 7377.4 18888.8 11233.9 2176.8 2919.7 2795.5 19352.1 4491.7 1162.80  
 4.84 3.39 6.47 4.02 .045 .035 .045 .000 1155.70 8897.66  
 .002130 525. 496. 450. 2 19 0 .00 2403.39 11336.52

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SECNO	DEPTH	CWSEL	CRISW	WSELK	EG	HV	HL	OLOSS	L-BANK ELEV
Q	QLOB	QCH	QROB	ALOB	ACH	AROB	VOL	TWA	R-BANK ELEV
TIME	VLOB	VCH	VROB	XNL	XNCH	XNR	WTN	ELMIN	SSTA
SLOPE	XLOBL	XLCH	XLOBR	ITRIAL	IDC	ICONT	CORAR	TOPWID	ENDST

FLOW DISTRIBUTION FOR SECNO= 19.45 CWSEL= 1164.08

STA= 8898. 8989. 9157. 9258. 9408. 9528. 9593. 10079. 10915. 11076. 11131. 11158. 11202.  
 PER Q= 4.2 3.0 3.4 3.7 4.0 1.4 50.4 3.0 4.7 3.4 3.1 3.1  
 AREA= 382.0 401.9 356.7 445.4 420.8 170.0 2919.7 703.8 486.6 278.7 199.7 241.4  
 VEL= 4.1 2.8 3.6 3.2 3.6 3.0 6.5 1.6 3.6 4.5 5.7 4.7  
 DEPTH= 4.2 2.4 3.5 3.0 3.5 2.6 6.0 .8 3.0 5.1 7.3 5.5

STA= 11202. 11243. 11280. 11324. 11337.  
 PER Q= 3.5 3.5 4.9 .8  
 AREA= 254.5 244.5 319.0 67.3  
 VEL= 5.2 5.3 5.7 4.6  
 DEPTH= 6.3 6.5 7.3 5.2

\*SECNO 19.542

3265 DIVIDED FLOW

19.542 8.24 1165.24 1163.59 .00 1165.71 .48 1.18 .01 1160.10  
 37500.0 10872.9 14474.0 12153.1 2821.6 2011.0 2745.8 19441.1 4520.1 1164.70  
 4.87 3.85 7.20 4.43 .045 .035 .045 .000 1157.00 8883.11  
 .002609 520. 506. 480. 2 15 0 .00 2559.01 11478.90

FLOW DISTRIBUTION FOR SECNO= 19.54 CWSEL= 1165.24

STA= 8883. 9003. 9248. 9392. 9539. 9688. 9739. 9777. 9805. 10136. 10987. 11182. 11229.  
 PER Q= 3.7 3.9 4.3 4.8 4.1 3.2 3.2 1.9 38.6 3.0 3.6 4.5  
 AREA= 370.2 515.1 444.5 459.0 429.0 243.5 215.7 144.6 2011.0 639.9 359.6 294.9  
 VEL= 3.7 2.8 3.6 3.9 3.6 4.9 5.5 5.0 7.2 1.8 3.8 5.7  
 DEPTH= 3.1 2.1 3.1 3.1 2.9 4.8 5.8 5.2 6.1 .8 1.9 6.2

STA= 11229. 11292. 11367. 11411. 11455. 11479.  
 PER Q= 4.9 6.2 3.4 4.8 2.0  
 AREA= 347.5 427.3 242.4 300.7 133.4  
 VEL= 5.3 5.4 5.2 6.0 5.5  
 DEPTH= 5.5 5.7 5.4 6.8 5.7

\*SECNO 19.635

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SECNO	DEPTH	CWSEL	CRISW	WSELK	EG	HV	HL	OLOSS	L-BANK ELEV
Q	QLOB	QCH	QROB	ALOB	ACH	AROB	VOL	TWA	R-BANK ELEV
TIME	VLOB	VCH	VROB	XNL	XNCH	XNR	WTN	ELMIN	SSTA
SLOPE	XLOBL	XLCH	XLOBR	ITRIAL	IDC	ICONT	CORAR	TOPWID	ENDST

3265 DIVIDED FLOW

19.635 7.50 1166.60 1164.92 .00 1167.03 .43 1.32 .00 1163.20  
 37500.0 11565.1 14830.3 11104.6 2865.4 2343.5 2272.5 19526.3 4547.2 1165.80  
 4.90 4.04 6.33 4.89 .045 .035 .045 .000 1159.10 8954.96  
 .002747 495. 493. 490. 2 16 0 .00 2241.18 11548.81

FLOW DISTRIBUTION FOR SECNO= 19.64 CWSEL= 1166.60

STA= 8955. 9032. 9096. 9334. 9437. 9587. 9750. 9847. 9887. 10374. 11237. 11307. 11373.  
 PER Q= 5.4 3.6 3.6 5.2 3.4 3.3 4.1 2.3 39.5 6.0 6.4 5.9  
 AREA= 377.3 280.8 461.7 432.7 382.8 393.4 355.0 181.6 2343.5 635.5 419.1 393.1  
 VEL= 5.3 4.9 2.9 4.5 3.3 3.1 4.3 4.8 6.3 3.5 5.7 5.6  
 DEPTH= 4.9 4.4 1.9 4.2 2.6 2.4 3.6 4.6 4.8 .7 6.0 5.9

STA= 11373. 11437. 11491. 11549.  
 PER Q= 5.0 4.0 2.3  
 AREA= 350.0 282.4 192.5  
 VEL= 5.4 5.3 4.5  
 DEPTH= 5.5 5.3 3.3

\*SECNO 19.732

3265 DIVIDED FLOW

19.732 7.13 1168.03 1166.55 .00 1168.52 .49 1.47 .02 1165.90  
 37500.0 10032.9 14205.8 13261.3 2576.7 2063.9 2562.0 19611.0 4574.4 1166.40  
 4.92 3.89 6.88 5.18 .045 .035 .045 .000 1160.90 8883.98  
 .003120 510. 508. 490. 2 19 0 .00 2480.32 11690.80

FLOW DISTRIBUTION FOR SECNO= 19.73 CWSEL= 1168.03

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SECNO	DEPTH	CWSEL	CRISW	WSELK	EG	HV	HL	OLOSS	L-BANK ELEV
Q	QLOB	QCH	QROB	ALOB	ACH	AROB	VOL	TWA	R-BANK ELEV
TIME	VLOB	VCH	VROB	XNL	XNCH	XNR	WTN	ELMIN	SSTA
SLOPE	XLOBL	XLCH	XLOBR	ITRIAL	IDC	ICONT	CORAR	TOPWID	ENDST

STA= 8884. 9099. 9234. 9334. 9418. 9523. 9718. 9815. 10231. 11119. 11170. 11220. 11268.  
 PER Q= 4.6 3.1 5.5 3.3 4.1 3.8 2.4 37.9 7.1 5.6 4.9 4.3  
 AREA= 479.4 334.8 425.8 278.3 358.3 445.2 254.8 2063.9 655.8 328.0 302.8 275.7  
 VEL= 3.6 3.4 4.8 4.4 4.3 3.2 3.6 6.9 4.1 6.4 6.1 5.9  
 DEPTH= 2.2 2.5 4.2 3.3 3.4 2.3 2.6 5.0 .7 6.5 6.0 5.7

STA= 11268. 11353. 11518. 11691.  
 PER Q= 8.1 3.2 2.2  
 AREA= 499.5 291.1 209.1

Effective Model Output  
AGUAFRIA.OUT

VEL= 6.0 4.1 3.9  
DEPTH= 5.9 1.8 1.2

\*SECNO 19.827

3265 DIVIDED FLOW

19.827	7.25	1169.65	1168.11	.00	1170.06	.41	1.54	.01	1167.10
37500.0	9226.5	10952.3	17321.2	2232.5	1721.3	3644.3	19696.0	4604.1	1168.40
4.95	4.13	6.36	4.75	.045	.035	.045	.000	1162.40	8923.64
.003021	500.	501.	500.	2	15	0	.00	2703.35	11727.27

FLOW DISTRIBUTION FOR SECNO= 19.83 CWSSEL= 1169.65

STA=	8924.	9100.	9199.	9248.	9581.	9627.	9749.	9767.	10149.	10299.	10800.	10899.	10948.
PER Q=	4.7	5.6	3.0	3.4	3.7	3.7	.5	29.2	3.0	4.0	5.9	3.7	
AREA=	449.1	432.7	221.0	460.5	250.6	368.2	50.4	1721.3	314.5	608.6	442.5	255.0	
VEL=	3.9	4.9	5.1	2.7	5.6	3.8	3.6	6.4	3.6	2.4	5.0	5.4	
DEPTH=	2.5	4.4	4.5	1.4	5.4	3.0	2.8	4.5	2.1	1.2	4.5	5.2	

STA=	10948.	10991.	11051.	11103.	11131.	11181.	11718.	11727.
PER Q=	3.9	7.5	6.1	3.4	4.6	4.0	.2	
AREA=	249.2	423.1	352.6	191.2	291.4	492.5	23.7	
VEL=	5.9	6.7	6.5	6.6	5.9	3.0	3.1	
DEPTH=	5.8	7.0	6.8	6.9	5.8	.9	2.5	

\*SECNO 19.920

3265 DIVIDED FLOW

19.920	8.43	1171.03	1169.13	.00	1171.41	.38	1.34	.00	1169.10
37500.0	5279.6	11009.9	21210.6	1461.3	1831.0	4587.2	19782.9	4632.6	1168.30
4.98	3.61	6.01	4.62	.045	.035	.045	.000	1162.60	8995.54
.002509	485.	491.	490.	2	14	0	.00	2373.74	11778.05

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SECNO	DEPTH	CWSSEL	CRISW	WSELK	EG	HV	HL	OLOSS	L-BANK ELEV
Q	QLOB	QCH	QROB	ALOB	ACH	AROB	VOL	TWA	R-BANK ELEV
TIME	VLOB	VCH	VROB	XLN	XLNCH	XNR	WTN	ELMIN	SSTA
SLOPE	XLOBL	XLCH	XLOBR	ITRIAL	IDC	ICONT	CORAR	TOPWID	ENDST

FLOW DISTRIBUTION FOR SECNO= 19.92 CWSSEL= 1171.03

STA=	8996.	9077.	9114.	9188.	9745.	10129.	10262.	10448.	10521.	10634.	10719.	10784.	10823.
PER Q=	3.8	3.6	3.6	3.1	29.4	3.7	3.1	3.9	3.8	3.9	4.0	3.7	
AREA=	307.1	235.0	309.7	609.4	1831.0	403.2	382.5	324.4	378.3	344.5	315.0	247.7	
VEL=	4.7	5.7	4.4	1.9	6.0	3.5	3.0	4.5	3.7	4.2	4.8	5.6	
DEPTH=	3.8	6.4	4.2	1.1	4.8	3.0	2.0	4.5	3.3	4.1	4.9	6.3	

STA=	10823.	10871.	10926.	10957.	11016.	11075.	11677.	11778.
PER Q=	5.2	7.3	3.5	3.4	5.1	3.6	2.3	
AREA=	325.4	422.3	218.4	273.2	352.6	332.7	267.0	
VEL=	5.9	6.5	6.1	4.7	5.5	4.0	3.3	
DEPTH=	6.8	7.7	7.0	4.6	6.0	.6	2.6	

\*SECNO 20.015

3265 DIVIDED FLOW

20.015	8.40	1172.40	1171.15	.00	1172.93	.52	1.47	.04	1170.30
37500.0	4922.3	14788.7	17789.1	1138.7	2059.5	3704.1	19867.5	4659.2	1169.40
5.00	4.32	7.18	4.80	.045	.035	.045	.000	1164.00	8967.04
.003512	505.	503.	495.	1	10	0	.00	2259.36	11518.43

FLOW DISTRIBUTION FOR SECNO= 20.01 CWSSEL= 1172.40

STA=	8967.	9049.	9095.	9691.	9723.	10149.	10245.	10299.	10399.	10611.	10732.	10754.	10806.
PER Q=	5.8	3.2	3.6	.5	39.4	4.5	3.1	3.0	3.2	4.0	3.8	6.2	
AREA=	389.7	217.3	470.1	61.7	2059.5	354.8	227.9	286.9	396.9	344.1	180.5	338.0	
VEL=	5.6	5.5	2.9	3.1	7.2	4.7	5.2	4.0	3.0	4.3	7.9	6.8	
DEPTH=	4.7	4.7	.8	2.0	4.8	3.7	4.3	2.9	1.9	2.9	8.1	6.5	

STA=	10806.	10857.	10936.	11051.	11187.	11518.
PER Q=	5.4	3.3	3.6	4.7	2.7	
AREA=	309.2	268.6	335.3	386.1	275.6	
VEL=	6.5	4.6	4.0	4.5	3.7	
DEPTH=	6.1	3.4	2.9	2.8	.8	

\*SECNO 20.111

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SECNO	DEPTH	CWSSEL	CRISW	WSELK	EG	HV	HL	OLOSS	L-BANK ELEV
Q	QLOB	QCH	QROB	ALOB	ACH	AROB	VOL	TWA	R-BANK ELEV
TIME	VLOB	VCH	VROB	XLN	XLNCH	XNR	WTN	ELMIN	SSTA
SLOPE	XLOBL	XLCH	XLOBR	ITRIAL	IDC	ICONT	CORAR	TOPWID	ENDST

3265 DIVIDED FLOW

20.111	8.69	1173.99	1172.48	.00	1174.51	.52	1.58	.00	1174.10
37500.0	5255.0	16666.9	15578.0	1291.8	2342.1	3409.0	19946.7	4684.4	1171.30
5.03	4.07	7.12	4.57	.045	.035	.045	.000	1165.30	8919.71
.002914	540.	510.	470.	2	12	0	.00	2129.88	11308.24

FLOW DISTRIBUTION FOR SECNO= 20.11 CWSEL= 1173.99

STA=	8920.	8986.	9024.	9196.	9731.	10160.	10264.	10360.	10460.	10812.	10857.	10882.	10913.
PER Q=	5.7	3.5	3.3	1.6	44.4	3.5	3.2	3.3	3.2	4.7	4.0	3.7	3.7
AREA=	369.1	225.8	387.2	309.8	2342.1	331.7	305.6	319.0	392.3	284.8	206.4	216.5	216.5
VEL=	5.8	5.8	3.2	1.9	7.1	3.9	3.9	3.9	3.1	6.2	7.3	6.5	6.5
DEPTH=	5.6	5.9	2.3	.6	5.5	3.2	3.2	3.2	1.1	6.4	8.3	6.9	6.9

STA=	10913.	10951.	11012.	11159.	11254.	11308.
PER Q=	3.9	3.7	4.0	3.1	1.2	1.2
AREA=	241.5	276.7	420.7	280.1	133.8	133.8
VEL=	6.1	5.0	3.6	4.1	3.5	3.5
DEPTH=	6.3	4.6	2.8	3.0	2.4	2.4

\*SECNO 20.207

3265 DIVIDED FLOW

20.207	8.17	1175.37	1174.08	.00	1176.07	.69	1.50	.05	1172.90
37500.0	6103.1	19660.2	11736.6	1425.1	2399.6	2571.4	20022.6	4707.6	1172.00
5.05	4.28	8.19	4.56	.045	.035	.045	.000	1167.20	8809.51
.003191	540.	504.	460.	2	16	0	.00	1929.41	11073.11

FLOW DISTRIBUTION FOR SECNO= 20.21 CWSEL= 1175.37

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SECNO	DEPTH	CWSEL	CRISW	WSELK	EG	HV	HL	OLOSS	L-BANK ELEV
Q	QLOB	QCH	QROB	ALOB	ACH	AROB	VOL	TWA	R-BANK ELEV
TIME	VLOB	VCH	VROB	XNL	XNCH	XNR	WTN	ELMIN	SSTA
SLOPE	XLOBL	XLCH	XLOBR	ITRIAL	IDC	ICONT	CORAR	TOPWID	ENDST

STA=	8810.	8903.	8960.	9699.	9827.	10206.	10357.	10452.	10555.	10794.	10850.	10953.	11012.
PER Q=	5.7	3.9	3.3	3.4	52.4	3.1	3.2	3.6	3.1	4.6	4.3	4.7	4.7
AREA=	415.6	276.8	408.8	324.0	2399.6	336.8	300.4	329.3	309.7	302.0	366.8	311.3	311.3
VEL=	5.1	5.3	3.0	3.9	8.2	3.4	4.0	4.1	3.7	5.7	4.4	5.7	5.7
DEPTH=	4.5	4.8	.6	2.5	6.3	2.2	3.1	3.2	1.3	5.4	3.6	5.2	5.2

STA=	11012.	11065.	11073.
PER Q=	4.5	.2	.2
AREA=	290.3	24.7	24.7
VEL=	5.8	3.4	3.4
DEPTH=	5.5	2.9	2.9

\*SECNO 20.294

3265 DIVIDED FLOW

20.294	10.05	1176.75	1175.06	.00	1177.29	.55	1.21	.01	1174.20
37500.0	5497.2	17011.4	14991.4	1774.4	2255.2	3357.4	20093.7	4727.8	1172.10
5.07	3.10	7.54	4.47	.045	.035	.045	.000	1166.70	8651.34
.002304	480.	460.	425.	1	8	0	.00	1940.71	10898.00

FLOW DISTRIBUTION FOR SECNO= 20.29 CWSEL= 1176.75

STA=	8651.	9349.	9551.	9782.	9840.	10156.	10210.	10258.	10309.	10352.	10425.	10514.	10612.
PER Q=	3.2	3.1	5.3	3.0	45.4	3.1	3.2	3.7	3.4	4.1	3.2	3.4	3.4
AREA=	530.5	433.3	548.3	262.4	2255.2	257.0	250.4	278.0	250.3	345.6	320.8	344.1	344.1
VEL=	2.3	2.7	3.6	4.3	7.5	4.5	4.7	4.9	5.1	4.5	3.7	3.7	3.7
DEPTH=	.8	2.1	2.4	4.5	7.1	4.8	5.2	5.5	5.8	4.7	3.6	3.5	3.5

STA=	10612.	10706.	10804.	10852.	10890.	10898.
PER Q=	3.6	3.8	4.6	3.8	.2	.2
AREA=	355.1	365.4	311.7	254.3	24.8	24.8
VEL=	3.8	3.9	5.5	5.6	2.9	2.9
DEPTH=	3.8	3.7	6.5	6.6	3.2	3.2

\*SECNO 20.343

3265 DIVIDED FLOW

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SECNO	DEPTH	CWSEL	CRISW	WSELK	EG	HV	HL	OLOSS	L-BANK ELEV
Q	QLOB	QCH	QROB	ALOB	ACH	AROB	VOL	TWA	R-BANK ELEV
TIME	VLOB	VCH	VROB	XNL	XNCH	XNR	WTN	ELMIN	SSTA
SLOPE	XLOBL	XLCH	XLOBR	ITRIAL	IDC	ICONT	CORAR	TOPWID	ENDST

3470 ENCROACHMENT STATIONS= 8518.4 10970.0 TYPE= 1 TARGET= 2451.600  
 20.343 8.70 1177.40 1175.93 .00 1177.95 .55 .66 .00 1175.50  
 37500.0 6581.9 15301.2 15617.0 1871.1 2001.2 3279.8 20136.4 4739.6 1173.70  
 5.08 3.52 7.65 4.76 .045 .035 .045 .000 1168.70 8542.24  
 .002871 250. 262. 255. 2 19 0 .00 2107.67 10970.00

FLOW DISTRIBUTION FOR SECNO= 20.34 CWSEL= 1177.40

STA= 8542. 8666. 9570. 9681. 9773. 9833. 10157. 10234. 10301. 10353. 10508. 10604. 10682.  
 PER Q= 3.2 3.1 4.0 5.4 1.9 40.8 4.0 4.5 4.4 10.1 4.7 4.6  
 AREA= 339.2 571.6 361.5 415.0 183.8 2001.2 323.7 328.0 293.4 749.0 390.6 355.5  
 VEL= 3.5 2.0 4.2 4.9 3.8 7.6 4.6 5.1 5.6 5.1 4.5 4.9  
 DEPTH= 2.7 .6 3.3 4.5 3.0 6.2 4.2 4.9 5.7 4.8 4.1 4.6

STA= 10682. 10738. 10906. 10970.  
 PER Q= 5.0 3.2 1.2  
 AREA= 328.4 366.2 145.1  
 VEL= 5.7 3.2 3.1  
 DEPTH= 5.8 2.2 2.3

\*SECNO 20.388

3265 DIVIDED FLOW

3470 ENCROACHMENT STATIONS= 8425.3 10820.0 TYPE= 1 TARGET= 2394.700  
 20.388 9.08 1177.98 1177.01 .00 1178.79 .81 .76 .08 1177.20  
 37500.0 5112.4 19186.9 13200.7 1416.6 2174.4 2397.0 20170.2 4750.0 1174.50  
 5.09 3.61 8.82 5.51 .045 .035 .045 .000 1168.90 8441.92  
 .003999 220. 233. 220. 0 12 0 .00 1989.66 10820.00

FLOW DISTRIBUTION FOR SECNO= 20.39 CWSEL= 1177.98

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SECNO	DEPTH	CWSEL	CRISWS	WSELK	EG	HV	HL	OLOSS	L-BANK ELEV
Q	QLOB	QCH	QROB	ALOB	ACH	AROB	VOL	TWA	R-BANK ELEV
TIME	VLOB	VCH	VROB	XNL	XNCH	XNR	WTN	ELMIN	SSTA
SLOPE	XLOBL	XLCH	XLOBR	ITRIAL	IDC	ICONT	CORAR	TOPWID	ENDST

STA= 8442. 9411. 9628. 9694. 9863. 10226. 10295. 10337. 10389. 10451. 10501. 10552. 10648.  
 PER Q= 3.3 3.5 3.9 3.0 51.2 4.2 4.9 4.4 4.4 3.3 3.1 5.3  
 AREA= 529.2 390.0 273.2 224.2 2174.4 286.4 262.3 265.4 283.4 221.4 213.8 381.4  
 VEL= 2.3 3.3 5.4 5.0 8.8 5.5 7.1 6.2 5.8 5.6 5.5 5.2  
 DEPTH= .5 1.8 4.2 1.3 6.0 4.2 6.2 5.1 4.6 4.4 4.2 4.0

STA= 10648. 10712. 10820.  
 PER Q= 3.4 2.2  
 AREA= 244.8 238.1  
 VEL= 5.2 3.5  
 DEPTH= 3.8 2.2

\*SECNO 20.435

3265 DIVIDED FLOW

3470 ENCROACHMENT STATIONS= 8338.0 10650.0 TYPE= 1 TARGET= 2312.000  
 20.435 10.10 1178.90 1178.29 .00 1179.87 .97 1.03 .05 1178.00  
 37500.0 5753.1 22917.4 8829.6 1556.6 2464.1 1578.3 20202.9 4760.6 1175.00  
 5.10 3.70 9.30 5.59 .045 .035 .045 .000 1168.80 8354.46  
 .004296 210. 248. 270. 2 8 0 .00 1987.51 10650.00

FLOW DISTRIBUTION FOR SECNO= 20.43 CWSEL= 1178.90

STA= 8354. 9299. 9547. 9600. 9638. 9851. 10253. 10300. 10326. 10404. 10510. 10611. 10650.  
 PER Q= 3.2 3.2 4.1 3.2 1.6 61.1 3.8 3.6 5.4 4.4 4.0 2.2  
 AREA= 561.8 394.3 249.2 188.5 162.8 2464.1 227.4 175.6 344.3 347.0 322.0 161.9  
 VEL= 2.1 3.0 6.2 6.4 3.8 9.3 6.3 7.7 5.9 4.8 4.7 5.2  
 DEPTH= .6 1.6 4.7 5.1 .8 6.1 4.9 6.8 4.4 3.3 3.2 4.1

\*SECNO 20.483

3265 DIVIDED FLOW

20.483 10.09 1179.89 1178.24 .00 1180.75 .86 .86 .01 1178.20  
 37500.0 6725.5 29341.7 1432.8 2093.7 3570.7 347.2 20235.4 4771.5 1176.30  
 5.11 3.21 8.22 4.13 .045 .035 .045 .000 1169.80 8279.77  
 .002854 220. 253. 265. 2 11 0 .00 2079.63 10540.07

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SECNO	DEPTH	CWSEL	CRISWS	WSELK	EG	HV	HL	OLOSS	L-BANK ELEV
Q	QLOB	QCH	QROB	ALOB	ACH	AROB	VOL	TWA	R-BANK ELEV

TIME SLOPE	VLOB XLOBL	VCH XLCH	VROB XLOBR	XNL ITRIAL	XNCH IDC	XNR ICONT	WTN CORAR	ELMIN TOPWID	SSTA ENDST
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FLOW DISTRIBUTION FOR SECNO= 20.48 CWSEL= 1179.89

STA=	8280.	9224.	9495.	9549.	9604.	9825.	9925.	10441.	10526.	10540.
PER Q=	3.1	3.6	3.4	4.3	3.0	.6	78.2	3.6	.2	
AREA=	658.6	484.2	254.1	299.0	294.8	102.8	3570.7	315.7	31.5	
VEL=	1.7	2.8	5.0	5.4	3.8	2.1	8.2	4.2	2.9	
DEPTH=	.7	1.8	4.7	5.4	1.3	1.0	6.9	3.7	2.2	

\*SECNO 20.579

3265 DIVIDED FLOW

20.579	9.45	1181.35	1180.37	.00	1182.45	1.09	1.63	.07	1179.00
37500.0	7126.4	30353.6	20.1	2038.0	3308.1	8.0	20299.5	4793.7	1177.80
5.13	3.50	9.18	2.52	.045	.035	.045	.000	1171.90	8181.59
.003757	455.	510.	540.	2	11	0	.00	2022.27	10328.68

FLOW DISTRIBUTION FOR SECNO= 20.58 CWSEL= 1181.35

STA=	8182.	9025.	9314.	9420.	9505.	9797.	9826.	10324.	10329.
PER Q=	3.1	3.0	3.3	4.7	3.9	.9	80.9	.1	
AREA=	586.3	342.3	304.1	344.9	378.1	82.4	3308.1	8.0	
VEL=	2.0	3.3	4.1	5.2	3.9	4.1	9.2	2.5	
DEPTH=	.7	1.2	2.9	4.0	1.3	2.9	6.6	1.8	

\*SECNO 20.675

3265 DIVIDED FLOW

3470 ENCROACHMENT STATIONS=	8290.2	10226.6	TYPE=	1	TARGET=	1936.399	
20.675	11.70	1183.00	1181.72	.00	1183.98	.98	
37500.0	11068.3	26069.1	362.7	3030.1	2837.6	82.8	
5.15	3.65	9.19	4.38	.045	.035	.045	
.002485	500.	503.	505.	1	8	0	
							1936.399
							1.52
							.01
							1177.40
							82.8
							20364.5
							4814.1
							1172.70
							.000
							1171.30
							8302.58
							.00
							1530.60
							10222.87

FLOW DISTRIBUTION FOR SECNO= 20.67 CWSEL= 1183.00

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SECNO	DEPTH	CWSEL	CRISW	WSELK	EG	HV	HL	OLOSS	L-BANK ELEV
Q	QLOB	QCH	QROB	ALOB	ACH	AROB	VOL	TWA	R-BANK ELEV
TIME	VLOB	VCH	VROB	XNL	XNCH	XNR	WTN	ELMIN	SSTA
SLOPE	XLOBL	XLCH	XLOBR	ITRIAL	IDC	ICONT	CORAR	TOPWID	ENDST

STA=	8303.	9064.	9119.	9306.	9453.	9654.	9803.	9841.	9893.	10207.	10223.
PER Q=	3.1	3.1	3.4	3.0	3.8	5.9	3.2	4.0	69.5	1.0	
AREA=	442.9	254.0	425.1	372.6	477.3	541.3	225.2	291.7	2837.6	82.8	
VEL=	2.6	4.6	3.0	3.1	3.0	4.1	5.4	5.2	9.2	4.4	
DEPTH=	.6	4.6	2.3	2.5	2.4	3.6	6.0	5.5	9.1	5.2	

\*SECNO 20.769

3470 ENCROACHMENT STATIONS=	8349.4	10280.0	TYPE=	1	TARGET=	1930.600	
20.769	11.33	1184.43	1182.11	.00	1185.03	.60	
37500.0	11718.8	24822.0	959.2	3413.3	3438.5	201.1	
5.17	3.43	7.22	4.77	.045	.035	.045	
.001760	465.	498.	500.	2	19	0	
							1.01
							.04
							1177.90
							201.1
							20436.4
							4831.0
							1173.10
							8692.68
							.00
							1584.29
							10276.97

FLOW DISTRIBUTION FOR SECNO= 20.77 CWSEL= 1184.43

STA=	8693.	8953.	9205.	9392.	9454.	9554.	9698.	9755.	9805.	9822.	10243.	10277.
PER Q=	3.1	3.0	3.8	4.3	4.5	5.0	3.1	3.1	1.4	66.2	2.6	
AREA=	404.9	486.3	505.0	362.2	443.8	544.1	286.4	269.6	110.8	3438.5	201.1	
VEL=	2.8	2.3	2.8	4.5	3.8	3.4	4.1	4.3	4.7	7.2	4.8	
DEPTH=	1.6	1.9	2.7	5.8	4.4	3.8	5.1	5.4	6.2	8.2	5.9	

\*SECNO 20.864

3265 DIVIDED FLOW

3470 ENCROACHMENT STATIONS=	8413.1	10533.4	TYPE=	1	TARGET=	2120.301	
20.864	9.35	1185.35	1183.03	.00	1185.88	.54	
35000.0	7419.3	24580.3	3000.4	2575.8	3653.7	886.5	
5.19	2.88	6.73	3.38	.045	.035	.045	
.001692	460.	503.	505.	2	14	0	
							.85
							.01
							1181.60
							20515.3
							4850.5
							1176.00
							8420.29
							.000
							1176.00
							1990.23
							10501.03

FLOW DISTRIBUTION FOR SECNO= 20.86 CWSEL= 1185.35

STA=	8420.	9142.	9281.	9335.	9408.	9739.	9780.	10263.	10423.	10487.	10501.
PER Q=	3.6	4.4	3.6	4.9	3.1	1.7	70.2	4.7	3.6	.3	
AREA=	745.9	477.9	295.2	405.7	480.7	170.4	3653.7	526.6	318.1	41.9	
VEL=	1.7	3.2	4.2	4.2	2.2	3.5	6.7	3.1	4.0	2.6	

DEPTH= 1.0 3.5 5.5 5.5 1.5 4.1 7.6 3.3 5.0 2.9  
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SECNO	DEPTH	CWSEL	CRISWS	WSELK	EG	HV	HL	OLOSS	L-BANK ELEV
Q	QLOB	QCH	QROB	ALOB	ACH	AROB	VOL	TWA	R-BANK ELEV
TIME	VLOB	VCH	VROB	XNL	XNCH	XNR	WTN	ELMIN	SSTA
SLOPE	XLOBL	XLCH	XLOBR	ITRIAL	IDC	ICONT	CORAR	TOPWID	ENDST

\*SECNO 20.958

3265 DIVIDED FLOW

3470 ENCROACHMENT STATIONS=	8780.0	10760.0	TYPE=	1	TARGET=	1980.000			
20.958	16.30	1186.20	1184.39	.00	1186.87	.67	.95	.04	1183.30
35000.0	4508.5	28018.5	2473.0	1261.6	3919.1	851.2	20586.2	4868.6	1181.50
5.21	3.57	7.15	2.91	.045	.035	.045	.000	1169.90	8824.55
.002312	390.	497.	530.	2	17	0	.00	1556.13	10748.46

FLOW DISTRIBUTION FOR SECNO= 20.96 CWSEL= 1186.20

STA=	8825.	8958.	9059.	9137.	9787.	10384.	10605.	10733.	10748.
PER Q=	4.3	4.1	3.3	1.2	80.1	3.0	3.5	.5	
AREA=	400.4	375.8	298.1	187.4	3919.1	423.2	376.2	51.8	
VEL=	3.7	3.8	3.9	2.3	7.1	2.5	3.3	3.6	
DEPTH=	3.0	3.7	3.8	.3	6.6	1.9	2.9	3.3	

\*SECNO 21.061

3265 DIVIDED FLOW

3470 ENCROACHMENT STATIONS=	9030.0	11069.0	TYPE=	1	TARGET=	2039.000			
21.061	17.64	1187.24	1185.08	.00	1188.35	1.11	1.35	.13	1184.50
35000.0	175.8	32555.5	2268.7	119.1	3717.1	886.7	20652.2	4886.6	1186.30
5.23	1.48	8.76	2.56	.045	.035	.045	.000	1169.60	9030.00
.002754	340.	543.	655.	1	10	0	.00	1407.65	11040.63

FLOW DISTRIBUTION FOR SECNO= 21.06 CWSEL= 1187.24

STA=	9030.	9850.	10325.	10564.	11041.
PER Q=	.5	93.0	4.0	2.5	
AREA=	119.1	3717.1	473.3	413.4	
VEL=	1.5	8.8	3.0	2.1	
DEPTH=	.1	7.8	2.0	.9	

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SECNO	DEPTH	CWSEL	CRISWS	WSELK	EG	HV	HL	OLOSS	L-BANK ELEV
Q	QLOB	QCH	QROB	ALOB	ACH	AROB	VOL	TWA	R-BANK ELEV
TIME	VLOB	VCH	VROB	XNL	XNCH	XNR	WTN	ELMIN	SSTA
SLOPE	XLOBL	XLCH	XLOBR	ITRIAL	IDC	ICONT	CORAR	TOPWID	ENDST

\*SECNO 21.157

3265 DIVIDED FLOW

3301 HV CHANGED MORE THAN HVINS

3470 ENCROACHMENT STATIONS=	9266.8	11150.0	TYPE=	1	TARGET=	1883.200			
21.157	15.04	1189.24	1185.32	.00	1189.56	.33	1.13	.08	1185.90
35000.0	23.7	33317.3	1659.0	17.8	7146.9	570.1	20726.8	4903.3	1181.90
5.26	1.34	4.66	2.91	.055	.050	.055	.000	1174.20	9277.03
.001793	340.	509.	630.	2	21	0	.00	1306.41	10952.50

FLOW DISTRIBUTION FOR SECNO= 21.16 CWSEL= 1189.24

STA=	9277.	9377.	10376.	10411.	10952.
PER Q=	.1	95.2	3.1	1.6	
AREA=	17.7	7146.9	254.1	316.0	
VEL=	1.3	4.7	4.3	1.8	
DEPTH=	.2	7.2	7.3	.6	

\*SECNO 21.245

3265 DIVIDED FLOW

3302 WARNING: CONVEYANCE CHANGE OUTSIDE OF ACCEPTABLE RANGE, KRATIO = .64

3470 ENCROACHMENT STATIONS=	9250.0	10700.0	TYPE=	1	TARGET=	1450.000			
21.245	38.07	1190.17	1187.93	.00	1190.81	.64	1.15	.09	1189.60

35000.0	22307.1	12397.1	295.8	3260.9	2189.3	119.1	20794.5	4915.6	1187.30
5.28	6.84	5.66	2.48	.055	.050	.055	.000	1152.10	9250.00
.004343	365.	464.	530.	2	17	0	.00	1101.63	10671.90

FLOW DISTRIBUTION FOR SECNO= 21.25 CWSEL= 1190.17

STA=	9250.	9296.	9418.	9465.	9538.	9656.	9762.	9830.	10275.	10672.
PER Q=	5.1	39.8	5.2	4.2	3.2	3.4	2.8	35.4	.8	
AREA=	293.5	1477.7	298.0	312.8	317.5	322.5	238.9	2189.3	119.1	
VEL=	6.1	9.4	6.1	4.7	3.6	3.7	4.2	5.7	2.5	
DEPTH=	6.3	12.2	6.4	4.3	2.7	3.0	3.5	4.9	.3	

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SECNO	DEPTH	CWSEL	CRISW	WSELK	EG	HV	HL	OLOSS	L-BANK ELEV
Q	QLOB	QCH	QROB	ALOB	ACH	AROB	VOL	TWA	R-BANK ELEV
TIME	VLOB	VCH	VROB	XNL	XNCH	XNR	WTN	ELMIN	SSTA
SLOPE	XLOBL	XLCH	XLOBR	ITRIAL	IDC	ICONT	CORAR	TOPWID	ENDST

\*SECNO 21.337

3265 DIVIDED FLOW

3302 WARNING: CONVEYANCE CHANGE OUTSIDE OF ACCEPTABLE RANGE, KRATIO = 2.97

3470 ENCROACHMENT STATIONS=	9230.0	11100.0	TYPE=	1	TARGET=	1870.000			
21.337	11.20	1191.20	1183.66	.00	1191.35	.16	.49	.05	1180.00
35000.0	1232.6	31626.7	2140.7	503.7	9586.1	1184.9	20883.9	4928.2	1180.00
5.32	2.45	3.30	1.81	.055	.050	.055	.000	1180.00	9230.00
.000492	375.	483.	530.	2	24	0	.00	1265.96	10856.58

FLOW DISTRIBUTION FOR SECNO= 21.34 CWSEL= 1191.20

STA=	9230.	9295.	10151.	10230.	10346.	10857.
PER Q=	3.5	90.4	3.0	3.0	.1	
AREA=	503.7	9586.1	513.0	590.4	81.5	
VEL=	2.4	3.3	2.1	1.8	.4	
DEPTH=	7.7	11.2	6.5	5.1	.2	

\*SECNO 21.431

3301 HV CHANGED MORE THAN HVINS

3302 WARNING: CONVEYANCE CHANGE OUTSIDE OF ACCEPTABLE RANGE, KRATIO = .25

3470 ENCROACHMENT STATIONS=	9350.0	10343.6	TYPE=	1	TARGET=	993.600			
21.431	10.28	1191.28	1189.96	.00	1192.20	.92	.62	.23	1191.10
35000.0	884.4	34115.6	.0	232.3	4394.9	.0	20973.2	4940.6	1193.90
5.34	3.81	7.76	.00	.055	.050	.000	.000	1181.00	9350.00
.007747	465.	496.	430.	3	14	0	.00	969.11	10319.11

FLOW DISTRIBUTION FOR SECNO= 21.43 CWSEL= 1191.28

STA=	9350.	9362.	9438.	9468.	10344.
PER Q=	.1	1.9	.6	97.5	
AREA=	11.1	166.0	55.2	4394.9	
VEL=	2.2	4.0	3.5	7.8	
DEPTH=	.9	2.2	1.8	5.2	

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SECNO	DEPTH	CWSEL	CRISW	WSELK	EG	HV	HL	OLOSS	L-BANK ELEV
Q	QLOB	QCH	QROB	ALOB	ACH	AROB	VOL	TWA	R-BANK ELEV
TIME	VLOB	VCH	VROB	XNL	XNCH	XNR	WTN	ELMIN	SSTA
SLOPE	XLOBL	XLCH	XLOBR	ITRIAL	IDC	ICONT	CORAR	TOPWID	ENDST

\*SECNO 21.524

3301 HV CHANGED MORE THAN HVINS

3302 WARNING: CONVEYANCE CHANGE OUTSIDE OF ACCEPTABLE RANGE, KRATIO = 2.08

3470 ENCROACHMENT STATIONS=	9603.9	10572.6	TYPE=	1	TARGET=	968.699			
21.524	11.49	1193.49	1187.87	.00	1193.86	.37	1.60	.06	1193.60
35000.0	.0	34959.0	41.0	.0	7185.8	28.6	21040.0	4951.4	1191.20
5.37	.00	4.87	1.44	.000	.050	.055	.000	1182.00	9604.26
.001790	485.	491.	425.	2	11	0	.00	957.53	10561.79

FLOW DISTRIBUTION FOR SECNO= 21.52 CWSEL= 1193.49

STA= 9604. 10540. 10560. 10562.  
PER Q= 99.9 .1 .0  
AREA= 7185.8 28.0 .6  
VEL= 4.9 1.5 .5  
DEPTH= 7.7 1.4 .3

\*SECNO 21.621

3302 WARNING: CONVEYANCE CHANGE OUTSIDE OF ACCEPTABLE RANGE, KRATIO = 1.63

3470 ENCROACHMENT STATIONS= 9607.6 10560.1 TYPE= 1 TARGET= 952.500  
21.621 11.68 1194.18 1186.80 .00 1194.40 .22 .53 .01 1186.40  
35000.0 6669.5 26481.6 1848.9 2034.4 6704.0 741.3 21137.5 4962.3 1182.70  
5.41 3.28 3.95 2.49 .055 .050 .055 .000 1182.50 9619.54  
.000675 545. 511. 370. 2 18 0 .00 923.39 10542.93

FLOW DISTRIBUTION FOR SECNO= 21.62 CWSEL= 1194.18

STA= 9620. 9695. 9816. 9833. 10412. 10509. 10543.  
PER Q= 3.4 14.0 1.6 75.7 5.0 .3  
AREA= 481.0 1379.1 174.2 6704.0 653.4 87.9  
VEL= 2.5 3.6 3.2 4.0 2.7 1.3  
DEPTH= 6.4 11.4 10.1 11.6 6.7 2.6

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SECNO	DEPTH	CWSEL	CRISW	WSELK	EG	HV	HL	OLOSS	L-BANK ELEV
Q	QLOB	QCH	QROB	ALOB	ACH	AROB	VOL	TWA	R-BANK ELEV
TIME	VLOB	VCH	VROB	XNL	XNCH	XNR	WTN	ELMIN	SSTA
SLOPE	XLOBL	XLCH	XLOBR	ITRIAL	IDC	ICONT	CORAR	TOPWID	ENDST

\*SECNO 21.716

3302 WARNING: CONVEYANCE CHANGE OUTSIDE OF ACCEPTABLE RANGE, KRATIO = .48

3470 ENCROACHMENT STATIONS= 9316.5 10900.0 TYPE= 1 TARGET= 1583.500  
21.716 11.44 1194.54 1191.17 .00 1195.12 .58 .61 .11 1192.90  
35000.0 1976.7 27743.4 5279.9 703.3 4267.1 1091.7 21225.7 4973.3 1191.00  
5.43 2.81 6.50 4.84 .055 .050 .055 .000 1183.10 9619.78  
.002933 560. 502. 350. 2 19 0 .00 1016.51 10636.29

FLOW DISTRIBUTION FOR SECNO= 21.72 CWSEL= 1194.54

STA= 9620. 9799. 9919. 10441. 10524. 10569. 10593. 10636.  
PER Q= 3.2 2.5 79.3 4.3 3.6 3.6 3.5  
AREA= 397.6 305.7 4267.1 376.0 263.7 204.8 247.2  
VEL= 2.8 2.9 6.5 4.0 4.8 6.2 5.0  
DEPTH= 2.2 2.6 8.2 4.5 5.9 8.6 5.6

\*SECNO 21.798

3470 ENCROACHMENT STATIONS= 9632.5 10775.5 TYPE= 1 TARGET= 1143.000  
21.798 10.07 1195.97 1194.45 .00 1196.80 .83 1.60 .07 1196.20  
35000.0 .0 21340.9 13659.1 .0 2742.2 2110.5 21279.5 4983.6 1195.40  
5.44 .00 7.78 6.47 .000 .035 .055 .000 1185.90 9651.11  
.004923 450. 436. 410. 3 18 0 .00 1081.89 10733.00

FLOW DISTRIBUTION FOR SECNO= 21.80 CWSEL= 1195.97

STA= 9651. 10300. 10422. 10507. 10540. 10568. 10599. 10681. 10733.  
PER Q= 61.0 3.3 9.8 6.4 6.7 7.1 4.6 1.2  
AREA= 2742.2 290.6 530.2 283.4 272.6 290.4 321.3 121.9  
VEL= 7.8 4.0 6.4 7.9 8.7 8.5 5.0 3.4  
DEPTH= 4.2 2.4 6.3 8.5 9.8 9.5 3.9 2.4

\*SECNO 21.893

3470 ENCROACHMENT STATIONS= 9546.7 11050.0 TYPE= 1 TARGET= 1503.300  
21.893 37.07 1198.27 1197.25 .00 1199.27 1.00 2.42 .05 1201.20  
35000.0 .0 27058.5 7941.5 .0 3077.1 1716.9 21335.6 4996.8 1196.70  
5.46 .00 8.79 4.63 .000 .035 .055 .000 1161.20 9566.00  
.004663 485. 501. 515. 2 19 0 .00 1174.62 10740.62

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SECNO	DEPTH	CWSEL	CRISW	WSELK	EG	HV	HL	OLOSS	L-BANK ELEV
Q	QLOB	QCH	QROB	ALOB	ACH	AROB	VOL	TWA	R-BANK ELEV
TIME	VLOB	VCH	VROB	XNL	XNCH	XNR	WTN	ELMIN	SSTA
SLOPE	XLOBL	XLCH	XLOBR	ITRIAL	IDC	ICONT	CORAR	TOPWID	ENDST

FLOW DISTRIBUTION FOR SECNO= 21.89 CWSEL= 1198.27

STA= 9566. 10147. 10444. 10653. 10711. 10741.  
 PER Q= 77.3 3.6 14.6 3.7 .7  
 AREA= 3077.1 464.8 922.8 257.6 71.7  
 VEL= 8.8 2.7 5.5 5.1 3.5  
 DEPTH= 5.3 1.6 4.4 4.5 2.4

\*SECNO 21.986

3470 ENCROACHMENT STATIONS= 9250.4 10915.0 TYPE= 1 TARGET= 1664.600  
 21.986 40.48 1200.58 1198.97 .00 1201.13 .56 1.81 .04 1197.70  
 35000.0 11063.7 14865.2 9071.0 2268.1 1978.8 2222.5 21398.6 5012.1 1199.20  
 5.49 4.88 7.51 4.08 .045 .035 .055 .000 1160.10 9268.54  
 .003037 450. 491. 505. 0 10 0 .00 1561.66 10830.21

FLOW DISTRIBUTION FOR SECNO= 21.99 CWSEL= 1200.58

STA= 9269. 9449. 9644. 9807. 10150. 10380. 10467. 10527. 10749. 10830.  
 PER Q= 14.9 7.3 9.3 42.5 3.2 11.3 3.7 7.7 .1  
 AREA= 943.0 636.7 688.4 1978.8 446.0 673.2 293.3 778.4 31.7  
 VEL= 5.5 4.0 4.7 7.5 2.5 5.9 4.4 3.5 .8  
 DEPTH= 5.2 3.3 4.2 5.8 1.9 7.7 4.9 3.5 .4

\*SECNO 22.082

3265 DIVIDED FLOW

3302 WARNING: CONVEYANCE CHANGE OUTSIDE OF ACCEPTABLE RANGE, KRATIO = 1.85

3470 ENCROACHMENT STATIONS= 9010.7 11059.0 TYPE= 1 TARGET= 2048.300  
 22.082 14.34 1201.74 1196.67 .00 1201.92 .19 .75 .04 1198.20  
 35000.0 5652.8 5190.3 24156.9 2603.8 1441.4 6555.9 21497.3 5032.4 1199.90  
 5.53 2.17 3.60 3.68 .045 .035 .055 .000 1187.40 9014.20  
 .000884 465. 503. 525. 2 18 0 .00 1986.96 11052.43

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SECNO	DEPTH	CWSEL	CRISWS	WSELK	EG	HV	HL	OLOSS	L-BANK ELEV
Q	QLOB	QCH	QROB	ALOB	ACH	AROB	VOL	TWA	R-BANK ELEV
TIME	VLOB	VCH	VROB	XNL	XNCH	XNR	WTN	ELMIN	SSTA
SLOPE	XLOBL	XLCH	XLOBR	ITRIAL	IDC	ICONT	CORAR	TOPWID	ENDST

FLOW DISTRIBUTION FOR SECNO= 22.08 CWSEL= 1201.74

STA= 9014. 9156. 9321. 9676. 9932. 10231. 10343. 10410. 10484. 10625. 10686. 10726. 10871.  
 PER Q= 4.0 4.6 3.4 4.1 14.8 3.1 3.8 5.1 25.2 10.4 3.1 14.1  
 AREA= 531.7 653.6 690.7 727.8 1441.4 472.3 460.3 559.7 1927.3 807.1 323.8 1370.9  
 VEL= 2.7 2.5 1.7 2.0 3.6 2.3 2.9 3.2 4.6 4.5 3.3 3.6  
 DEPTH= 3.7 4.0 1.9 2.8 4.8 4.2 6.9 7.6 13.6 13.2 8.2 9.4

STA= 10871. 10922. 11052.  
 PER Q= 3.2 1.0  
 AREA= 370.7 263.8  
 VEL= 3.0 1.3  
 DEPTH= 7.2 2.0

\*SECNO 22.177

3265 DIVIDED FLOW

3301 HV CHANGED MORE THAN HVINS

3302 WARNING: CONVEYANCE CHANGE OUTSIDE OF ACCEPTABLE RANGE, KRATIO = .40

3470 ENCROACHMENT STATIONS= 8765.7 10650.0 TYPE= 1 TARGET= 1884.300  
 22.177 8.27 1202.07 1201.20 .00 1203.07 1.00 .90 .24 1199.60  
 35000.0 5430.3 25627.0 3942.7 1197.3 2911.8 635.2 21585.3 5052.3 1200.70  
 5.54 4.54 8.80 6.21 .045 .035 .055 .000 1193.80 8857.86  
 .005530 510. 506. 490. 3 11 0 .00 1455.72 10650.00

FLOW DISTRIBUTION FOR SECNO= 22.18 CWSEL= 1202.07

STA= 8858. 9077. 9910. 10534. 10650.  
 PER Q= 10.8 4.7 73.2 11.3  
 AREA= 700.6 496.7 2911.8 635.2  
 VEL= 5.4 3.3 8.8 6.2  
 DEPTH= 3.2 .6 4.7 5.5

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SECNO	DEPTH	CWSEL	CRISWS	WSELK	EG	HV	HL	OLOSS	L-BANK ELEV
Q	QLOB	QCH	QROB	ALOB	ACH	AROB	VOL	TWA	R-BANK ELEV
TIME	VLOB	VCH	VROB	XNL	XNCH	XNR	WTN	ELMIN	SSTA

SLOPE	XLOBL	XLCH	XLOBR	ITRIAL	IDC	ICONT	CORAR	TOPWID	ENDST
*SECNO 22.273									
3265 DIVIDED FLOW									
3470 ENCROACHMENT STATIONS=	8965.3	10635.9	TYPE=	1	TARGET=	1670.601			
22.273	16.86	1204.46	1203.06	.00	1205.43	.97	2.36	.00	1204.00
35000.0	3857.0	31143.0	.0	895.3	3780.3	.0	21639.7	5068.0	1209.00
5.56	4.31	8.24	.00	.045	.035	.000	.000	1187.60	8977.78
.004024	505.	504.	485.	3	15	0	.00	1253.72	10627.34

FLOW DISTRIBUTION FOR SECNO= 22.27 CWSEL= 1204.46

STA=	8978.	9021.	9139.	9923.	10636.
PER Q=	3.0	6.5	1.5	89.0	
AREA=	187.2	443.1	265.1	3780.3	
VEL=	5.6	5.1	2.0	8.2	
DEPTH=	4.3	3.8	.3	5.4	

*SECNO 22.368									
3265 DIVIDED FLOW									
3301 HV CHANGED MORE THAN HVINS									
3470 ENCROACHMENT STATIONS=	9008.1	11110.0	TYPE=	1	TARGET=	2101.900			
22.368	8.05	1206.55	1204.56	.00	1206.91	.36	1.42	.06	1206.80
33000.0	4370.8	20511.9	8117.3	1122.9	3772.0	2462.9	21708.4	5085.6	1212.90
5.59	3.89	5.44	3.30	.045	.035	.055	.000	1198.50	9015.71
.002073	510.	505.	465.	2	18	0	.00	1819.20	11110.00

FLOW DISTRIBUTION FOR SECNO= 22.37 CWSEL= 1206.55

STA=	9016.	9090.	9215.	9511.	10529.	10991.	11110.
PER Q=	6.3	5.9	1.1	62.2	20.1	4.5	
AREA=	427.5	506.0	189.4	3772.0	1976.5	486.4	
VEL=	4.9	3.8	1.9	5.4	3.4	3.1	
DEPTH=	5.8	4.0	.6	4.7	4.3	4.1	

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SECNO	DEPTH	CWSEL	CRISWS	WSELK	EG	HV	HL	OLOSS	L-BANK ELEV
Q	QLOB	QCH	QROB	ALOB	ACH	AROB	VOL	TWA	R-BANK ELEV
TIME	VLOB	VCH	VROB	XNL	XNCH	XNR	WTN	ELMIN	SSTA
SLOPE	XLOBL	XLCH	XLOBR	ITRIAL	IDC	ICONT	CORAR	TOPWID	ENDST

*SECNO 22.462									
3265 DIVIDED FLOW									
3470 ENCROACHMENT STATIONS=	9040.3	11760.0	TYPE=	1	TARGET=	2719.700			
22.462	7.33	1207.63	1205.50	.00	1207.92	.28	1.00	.01	1206.30
33000.0	4594.7	9468.6	18936.7	1360.6	1848.2	4747.5	21792.3	5108.2	1208.70
5.62	3.38	5.12	3.99	.045	.035	.045	.000	1200.30	9046.90
.002081	515.	496.	450.	2	23	0	.00	2272.01	11760.00

FLOW DISTRIBUTION FOR SECNO= 22.46 CWSEL= 1207.63

STA=	9047.	9097.	9158.	9243.	9887.	10319.	11064.	11127.	11675.	11750.	11760.
PER Q=	4.3	3.6	3.2	2.8	28.7	18.0	3.1	31.7	4.3	.3	
AREA=	288.9	284.3	300.7	486.8	1848.2	1597.5	259.8	2512.6	342.1	35.4	
VEL=	4.9	4.2	3.5	1.9	5.1	3.7	3.9	4.2	4.1	3.0	
DEPTH=	5.8	4.6	3.5	.8	4.3	2.1	4.1	4.6	4.5	3.6	

*SECNO 22.558									
3265 DIVIDED FLOW									
3302 WARNING: CONVEYANCE CHANGE OUTSIDE OF ACCEPTABLE RANGE, KRATIO = .52									
22.558	6.48	1208.88	1208.58	.00	1209.82	.93	1.71	.20	1208.50
33000.0	6353.0	16203.7	10443.3	1084.6	1727.8	1823.0	21859.7	5130.6	1207.70
5.64	5.86	9.38	5.73	.045	.035	.045	.000	1202.40	9080.51
.007817	535.	503.	420.	2	12	0	.00	1893.33	12001.64

FLOW DISTRIBUTION FOR SECNO= 22.56 CWSEL= 1208.88

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SECNO	DEPTH	CWSEL	CRISW	WSELK	EG	HV	HL	OLOSS	L-BANK ELEV
Q	QLOB	QCH	QROB	ALOB	ACH	AROB	VOL	TWA	R-BANK ELEV
TIME	VLOB	VCH	VROB	XNL	XNCH	XNR	WTN	ELMIN	SSTA
SLOPE	XLOBL	XLCH	XLOBR	ITRIAL	IDC	ICONT	CORAR	TOPWID	ENDST

STA=	9081.	9112.	9181.	9327.	9614.	10050.	10704.	11290.	11684.	11724.	11762.	11792.	11847.
PER Q=	5.1	4.7	6.6	2.9	49.1	3.0	3.7	7.0	3.6	3.8	3.3	3.2	3.2
AREA=	177.6	229.6	387.9	289.4	1727.8	246.3	340.3	322.6	161.6	163.0	136.8	156.2	156.2
VEL=	9.5	6.8	5.6	3.3	9.4	4.0	3.6	7.1	7.4	7.7	7.9	6.7	6.7
DEPTH=	5.7	3.3	2.6	1.0	4.0	.4	.6	.8	4.0	4.3	4.4	2.9	2.9

STA=	11847.	11956.	12002.
PER Q=	3.1	1.0	
AREA=	220.0	76.3	
VEL=	4.7	4.2	
DEPTH=	2.0	1.7	

\*SECNO 22.651

3265 DIVIDED FLOW

3301 HV CHANGED MORE THAN HVINS

3302 WARNING: CONVEYANCE CHANGE OUTSIDE OF ACCEPTABLE RANGE, KRATIO = 1.78

22.651	6.69	1211.49	1209.71	.00	1211.82	.33	1.94	.06	1208.50
33000.0	12228.8	10066.7	10704.5	2802.8	1764.7	2997.9	21926.2	5154.9	1208.60
5.67	4.36	5.70	3.57	.045	.035	.045	.000	1204.80	9025.78
.002475	490.	492.	450.	2	19	0	.00	2611.76	12095.46

FLOW DISTRIBUTION FOR SECNO= 22.65 CWSEL= 1211.49

STA=	9026.	9110.	9217.	9295.	9378.	9422.	9480.	9654.	9735.	10133.	10605.	11065.	11617.
PER Q=	5.4	4.5	4.4	8.3	4.3	3.3	3.9	3.0	30.5	3.1	3.2	3.2	3.2
AREA=	388.4	386.8	331.8	500.0	260.4	252.2	410.5	272.9	1764.7	316.1	538.0	396.0	396.0
VEL=	4.6	3.9	4.3	5.4	5.4	4.4	3.1	3.7	5.7	3.3	2.0	2.7	2.7
DEPTH=	4.6	3.6	4.3	6.0	5.9	4.3	2.4	3.3	4.4	.7	1.2	.7	.7

STA=	11617.	11695.	11742.	11806.	11966.	12095.
PER Q=	7.5	4.7	3.5	5.0	2.1	
AREA=	460.4	284.3	269.4	471.5	262.2	
VEL=	5.3	5.5	4.3	3.5	2.7	
DEPTH=	5.9	6.1	4.2	2.9	2.0	

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SECNO	DEPTH	CWSEL	CRISW	WSELK	EG	HV	HL	OLOSS	L-BANK ELEV
Q	QLOB	QCH	QROB	ALOB	ACH	AROB	VOL	TWA	R-BANK ELEV
TIME	VLOB	VCH	VROB	XNL	XNCH	XNR	WTN	ELMIN	SSTA
SLOPE	XLOBL	XLCH	XLOBR	ITRIAL	IDC	ICONT	CORAR	TOPWID	ENDST

\*SECNO 22.745

3265 DIVIDED FLOW

22.745	6.78	1212.78	1211.56	.00	1213.17	.38	1.33	.02	1211.90
33000.0	9789.5	9083.1	14127.4	2076.1	1428.7	3487.4	22001.8	5183.7	1210.20
5.70	4.72	6.36	4.05	.045	.035	.045	.000	1206.00	8914.99
.003441	495.	496.	400.	3	15	0	.00	3110.28	12094.09

FLOW DISTRIBUTION FOR SECNO= 22.75 CWSEL= 1212.78

STA=	8915.	8964.	9060.	9115.	9143.	9209.	9711.	9798.	10148.	10377.	10941.	11379.	11431.
PER Q=	3.5	8.1	5.3	3.8	3.7	3.5	1.7	27.5	3.2	3.4	3.3	5.6	5.6
AREA=	218.8	476.5	295.0	185.5	244.6	488.6	167.1	1428.7	361.2	449.4	390.2	295.7	295.7
VEL=	5.3	5.6	6.0	6.8	5.0	2.4	3.3	6.4	2.9	2.5	2.8	6.2	6.2
DEPTH=	4.5	4.9	5.4	6.5	3.7	1.0	1.9	4.1	1.6	.8	.9	5.7	5.7

STA=	11431.	11521.	11642.	11721.	11905.	12052.	12094.
PER Q=	11.4	5.0	3.1	3.5	4.0	.4	
AREA=	568.0	385.6	248.7	371.9	365.5	51.2	
VEL=	6.6	4.3	4.2	3.1	3.6	2.7	
DEPTH=	6.3	3.2	3.1	2.0	2.5	1.2	

\*SECNO 22.839

3265 DIVIDED FLOW

22.839	7.00	1214.30	1212.92	.00	1214.65	.34	1.48	.00	1214.30
33000.0	10198.8	8944.9	13856.4	2227.4	1512.8	3621.7	22077.0	5214.9	1213.10
5.72	4.58	5.91	3.83	.045	.035	.045	.000	1207.30	8727.76
.002980	495.	498.	415.	2	15	0	.00	2967.78	11833.17

FLOW DISTRIBUTION FOR SECNO= 22.84 CWSEL= 1214.30

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SECNO	DEPTH	CWSEL	CRISW	WSELK	EG	HV	HL	OLOSS	L-BANK ELEV
Q	QLOB	QCH	QROB	ALOB	ACH	AROB	VOL	TWA	R-BANK ELEV
TIME	VLOB	VCH	VROB	XNL	XNCH	XNR	WTN	ELMIN	SSTA
SLOPE	XLOBL	XLCH	XLOBR	ITRIAL	IDC	ICONT	CORAR	TOPWID	ENDST

STA=	8728.	8774.	8903.	8932.	9036.	9396.	9702.	10073.	10256.	10436.	11008.	11223.	11259.
PER Q=	4.2	13.1	3.2	5.7	3.4	1.2	27.1	3.4	3.9	3.1	8.9	4.2	
AREA=	247.4	745.1	176.0	412.6	425.0	221.3	1512.8	372.2	410.9	508.8	523.9	227.6	
VEL=	5.6	5.8	6.1	4.6	2.7	1.8	5.9	3.0	3.1	2.0	5.6	6.2	
DEPTH=	5.4	5.8	6.2	4.0	1.2	.7	4.1	2.0	2.3	.9	2.4	6.3	

STA=	11259.	11290.	11372.	11476.	11626.	11812.	11833.						
PER Q=	3.5	3.4	3.9	3.4	3.9	.2							
AREA=	191.7	275.7	330.5	346.1	404.0	30.4							
VEL=	6.0	4.1	3.9	3.2	3.2	2.7							
DEPTH=	6.1	3.4	3.2	2.3	2.2	1.4							

\*SECNO 22.935

3265 DIVIDED FLOW

22.935	6.62	1215.62	1214.01	.00	1215.91	.28	1.25	.01	1214.80
33000.0	10364.5	13712.3	8923.1	2435.9	2863.2	2657.2	22158.8	5246.9	1214.40
5.75	4.25	4.79	3.36	.045	.035	.045	.000	1209.00	8484.93
.002413	465.	501.	440.	2	16	0	.00	3101.86	11781.76

FLOW DISTRIBUTION FOR SECNO= 22.93 CWSEL= 1215.62

STA=	8485.	8541.	8593.	8638.	8746.	8840.	8937.	9530.	10352.	10955.	11072.	11192.	11356.
PER Q=	5.8	5.3	4.0	5.0	5.6	3.4	2.3	41.6	6.5	7.6	3.7	4.1	
AREA=	348.3	321.1	255.0	417.4	412.1	295.8	386.3	2863.2	647.5	550.1	346.9	432.6	
VEL=	5.5	5.5	5.2	4.0	4.4	3.7	2.0	4.8	3.3	4.6	3.5	3.1	
DEPTH=	6.2	6.2	5.7	3.9	4.4	3.0	.7	3.5	1.1	4.7	2.9	2.6	

STA=	11356.	11597.	11782.										
PER Q=	3.3	1.9											
AREA=	440.0	240.1											
VEL=	2.5	2.6											
DEPTH=	1.8	1.3											

\*SECNO 23.029

3265 DIVIDED FLOW

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SECNO	DEPTH	CWSEL	CRISW	WSELK	EG	HV	HL	OLOSS	L-BANK ELEV
Q	QLOB	QCH	QROB	ALOB	ACH	AROB	VOL	TWA	R-BANK ELEV
TIME	VLOB	VCH	VROB	XNL	XNCH	XNR	WTN	ELMIN	SSTA
SLOPE	XLOBL	XLCH	XLOBR	ITRIAL	IDC	ICONT	CORAR	TOPWID	ENDST

3470 ENCROACHMENT STATIONS=	8450.0	11893.6	TYPE=	1	TARGET=	3443.600			
23.029	6.93	1217.03	1216.06	.00	1217.47	.45	1.52	.05	1217.50
33000.0	9492.6	9677.9	13829.5	2129.6	1488.5	2740.2	22234.3	5277.1	1217.00
5.78	4.46	6.50	5.05	.045	.035	.045	.000	1210.10	8450.00
.004722	450.	501.	435.	2	12	0	.00	2685.04	11583.72

FLOW DISTRIBUTION FOR SECNO= 23.03 CWSEL= 1217.03

STA=	8450.	8503.	8641.	8759.	9128.	9312.	9363.	9436.	9831.	10307.	10706.	10758.	10812.
PER Q=	3.8	3.7	3.3	3.2	5.7	3.5	3.8	1.6	29.3	7.7	6.2	5.6	
AREA=	223.3	313.7	273.8	324.9	395.9	201.3	248.0	148.7	1488.5	480.0	287.8	275.8	
VEL=	5.7	3.9	4.0	3.3	4.8	5.7	5.1	3.6	6.5	5.3	7.1	6.7	
DEPTH=	4.2	2.3	2.3	.9	2.1	4.0	3.4	.4	3.3	1.2	5.6	5.1	

STA=	10812.	10850.	11022.	11207.	11326.	11584.							
PER Q=	3.5	7.3	5.9	3.1	2.6								
AREA=	179.7	509.8	460.6	263.1	283.3								
VEL=	6.4	4.8	4.2	3.9	3.0								
DEPTH=	4.7	3.0	2.5	2.2	1.1								

\*SECNO 23.124

3265 DIVIDED FLOW

3470 ENCROACHMENT STATIONS=	8580.0	11903.0	TYPE=	1	TARGET=	3323.000			
23.124	7.21	1219.11	1217.95	.00	1219.51	.40	2.03	.00	1220.30
33000.0	12100.2	5553.2	15346.6	2668.0	912.5	3011.3	22304.5	5304.8	1217.90
5.81	4.54	6.09	5.10	.045	.035	.045	.000	1211.90	8580.00
.003910	485.	499.	450.	2	12	0	.00	2453.18	11494.80

FLOW DISTRIBUTION FOR SECNO= 23.12 CWSEL= 1219.11

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SECNO	DEPTH	CWSEL	CRWS	WSELK	EG	HV	HL	OLOSS	L-BANK ELEV
Q	QLOB	QCH	QROB	ALOB	ACH	AROB	VOL	TWA	R-BANK ELEV
TIME	VLOB	VCH	VROB	XNL	XNCH	XNR	WTN	ELMIN	SSTA
SLOPE	XLOBL	XLCH	XLOBR	ITRIAL	IDC	ICONT	CORAR	TOPWID	ENDST

STA=	8580.	8945.	9025.	9153.	9206.	9276.	9309.	9381.	9444.	9523.	9591.	9669.	10216.
PER Q=	4.4	3.8	3.9	3.1	4.1	3.4	4.0	3.1	3.5	3.3	.0	16.8	
AREA=	442.4	270.3	331.2	201.2	268.3	178.2	264.9	218.1	254.4	231.6	7.4	912.5	
VEL=	3.3	4.7	3.9	5.1	5.1	6.4	4.9	4.7	4.5	4.7	.7	6.1	
DEPTH=	1.2	3.4	2.6	3.8	3.8	5.4	3.7	3.5	3.3	3.4	.1	3.5	

STA=	10216.	10569.	10694.	10752.	10799.	10843.	10905.	11017.	11140.	11495.			
PER Q=	3.6	13.7	6.6	3.2	3.4	4.0	5.1	6.4	.5				
AREA=	472.4	650.6	327.7	196.4	200.3	248.9	368.0	439.5	107.5				
VEL=	2.5	6.9	6.6	5.3	5.7	5.3	4.5	4.8	1.6				
DEPTH=	1.3	5.2	5.7	4.2	4.6	4.0	3.3	3.6	.3				

\*SECNO 23.219

3265 DIVIDED FLOW

3470 ENCROACHMENT STATIONS=	8860.0	11681.3	TYPE=	1	TARGET=	2821.300							
23.219	6.97	1220.97	1219.67	.00	1221.37	.39	1.86	.00	1219.20				
33000.0	7591.7	11330.6	14077.8	1788.3	1951.5	2954.7	22380.2	5332.6	1218.70				
5.83	4.25	5.81	4.76	.045	.035	.045	.000	1214.00	8860.00				
.003591	490.	501.	500.	2	15	0	.00	2418.08	11447.95				

FLOW DISTRIBUTION FOR SECNO= 23.22 CWSEL= 1220.97

STA=	8860.	8964.	9082.	9194.	9268.	9548.	9549.	10114.	10371.	10628.	10710.	10802.	10893.
PER Q=	3.6	4.0	6.0	6.3	3.1	.0	34.3	3.4	5.4	4.7	5.2	8.4	
AREA=	300.4	327.9	416.5	360.4	380.4	2.8	1951.5	388.9	503.8	318.4	351.6	470.0	
VEL=	4.0	4.0	4.8	5.7	2.7	2.9	5.8	2.9	3.5	4.9	4.8	5.9	
DEPTH=	2.9	2.8	3.7	4.8	1.4	1.8	3.5	1.5	2.0	3.9	3.8	5.1	

STA=	10893.	10976.	11048.	11448.									
PER Q=	7.2	7.6	.8										
AREA=	412.3	401.5	108.0										
VEL=	5.8	6.3	2.4										
DEPTH=	5.0	5.6	.3										

\*SECNO 23.314

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SECNO	DEPTH	CWSEL	CRWS	WSELK	EG	HV	HL	OLOSS	L-BANK ELEV
Q	QLOB	QCH	QROB	ALOB	ACH	AROB	VOL	TWA	R-BANK ELEV
TIME	VLOB	VCH	VROB	XNL	XNCH	XNR	WTN	ELMIN	SSTA
SLOPE	XLOBL	XLCH	XLOBR	ITRIAL	IDC	ICONT	CORAR	TOPWID	ENDST

3265 DIVIDED FLOW

3470 ENCROACHMENT STATIONS=	9220.0	11953.4	TYPE=	1	TARGET=	2733.400							
23.314	6.85	1222.95	1222.14	.00	1223.55	.60	2.12	.06	1221.40				
33000.0	6970.4	9741.0	16288.6	1413.4	1205.7	3054.2	22451.0	5358.9	1222.70				
5.86	4.93	8.08	5.33	.045	.035	.045	.000	1216.10	9220.00				
.005109	510.	504.	490.	2	12	0	.00	2174.56	11496.08				

FLOW DISTRIBUTION FOR SECNO= 23.31 CWSEL= 1222.95

STA=	9220.	9270.	9300.	9423.	9579.	9787.	10063.	10449.	10552.	10655.	10799.	10881.	11063.
PER Q=	5.7	3.5	4.5	4.3	3.1	29.5	4.6	3.2	4.2	4.2	5.4	5.4	22.6
AREA=	275.3	159.3	311.5	351.0	316.3	1205.7	458.8	250.2	293.4	334.5	310.4	1006.3	
VEL=	6.9	7.2	4.8	4.0	3.3	8.1	3.3	4.3	4.8	4.2	5.7	7.4	
DEPTH=	5.5	5.4	2.5	2.2	1.5	4.4	1.2	2.4	2.9	2.3	3.8	5.5	

STA=	11063.	11091.	11496.										
PER Q=	3.3	1.8											
AREA=	149.9	250.7											
VEL=	7.2	2.4											
DEPTH=	5.4	.6											

\*SECNO 23.409

3265 DIVIDED FLOW

3470 ENCROACHMENT STATIONS=	9550.0	12265.5	TYPE=	1	TARGET=	2715.500							
23.409	8.53	1225.23	1223.99	.00	1225.74	.51	2.18	.01	1223.60				
33000.0	548.7	10869.1	21582.2	198.2	1593.5	4150.6	22516.8	5381.7	1225.40				

5.88 2.77 6.82 5.20 .045 .035 .045 .000 1216.70 9550.00  
.003875 515. 500. 485. 2 8 0 .00 1865.86 11506.14

FLOW DISTRIBUTION FOR SECNO= 23.41 CWSEL= 1225.23

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SECNO	DEPTH	CWSEL	CRISWS	WSELK	EG	HV	HL	OLOSS	L-BANK ELEV
Q	QLOB	QCH	QROB	ALOB	ACH	AROB	VOL	TWA	R-BANK ELEV
TIME	VLOB	VCH	VROB	XNL	XNCH	XNR	WTN	ELMIN	SSTA
SLOPE	XLOBL	XLCH	XLOBR	ITRIAL	IDC	ICONT	CORAR	TOPWID	ENDST

STA= 9550. 9675. 10060. 10407. 10582. 10660. 10737. 10788. 10890. 10920. 11146. 11350. 11440.  
PER Q= 1.7 32.9 4.2 5.7 3.6 3.5 4.3 19.0 4.7 3.8 6.2 4.6  
AREA= 198.2 1593.5 414.7 470.6 259.3 254.4 242.9 785.7 207.3 376.9 530.3 306.2  
VEL= 2.8 6.8 3.3 4.0 4.6 4.6 5.9 8.0 7.5 3.3 3.9 5.0  
DEPTH= 1.6 4.2 1.2 2.7 3.3 3.3 4.8 7.7 7.0 1.7 2.6 3.4

STA= 11440. 11481. 11506.  
PER Q= 4.9 .8  
AREA= 240.0 62.5  
VEL= 6.7 4.4  
DEPTH= 5.9 2.5

\*SECNO 23.504

3470 ENCROACHMENT STATIONS= 9680.0 12068.7 TYPE= 1 TARGET= 2388.700  
23.504 37.97 1227.07 1225.17 .00 1227.43 .36 1.67 .02 1226.20  
33000.0 34.5 8037.4 24928.1 25.0 1613.9 5209.2 22589.2 5403.5 1226.70  
5.91 1.38 4.98 4.79 .055 .035 .045 .000 1189.10 9680.00  
.002996 505. 501. 490. 2 17 0 .00 1989.13 11669.13

FLOW DISTRIBUTION FOR SECNO= 23.50 CWSEL= 1227.07

STA= 9680. 9707. 10220. 10469. 10509. 10604. 10650. 10696. 10923. 11063. 11318. 11558. 11626.  
PER Q= .1 24.4 8.6 4.4 9.4 7.5 8.4 14.6 4.6 3.8 6.3 7.2  
AREA= 25.0 1613.9 749.0 237.9 541.7 352.6 376.9 992.2 409.1 463.1 614.3 400.9  
VEL= 1.4 5.0 3.8 6.1 5.8 7.1 7.4 4.8 3.7 2.7 3.4 5.9  
DEPTH= .9 3.1 3.0 6.0 5.7 7.7 8.3 4.4 2.9 1.8 2.6 5.9

STA= 11626. 11669.  
PER Q= .8  
AREA= 71.3  
VEL= 3.6  
DEPTH= 1.6

\*SECNO 23.598

3470 ENCROACHMENT STATIONS= 9680.0 11700.5 TYPE= 1 TARGET= 2020.500  
23.598 51.50 1228.50 1226.47 .00 1228.96 .46 1.50 .03 1228.00  
33000.0 8.6 15689.0 17302.4 8.7 2476.3 3916.3 22664.0 5425.7 1226.40  
5.93 .98 6.34 4.42 .055 .035 .045 .000 1177.00 9683.54  
.003075 480. 498. 490. 2 13 0 .00 1934.27 11617.81

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SECNO	DEPTH	CWSEL	CRISWS	WSELK	EG	HV	HL	OLOSS	L-BANK ELEV
Q	QLOB	QCH	QROB	ALOB	ACH	AROB	VOL	TWA	R-BANK ELEV
TIME	VLOB	VCH	VROB	XNL	XNCH	XNR	WTN	ELMIN	SSTA
SLOPE	XLOBL	XLCH	XLOBR	ITRIAL	IDC	ICONT	CORAR	TOPWID	ENDST

FLOW DISTRIBUTION FOR SECNO= 23.60 CWSEL= 1228.50

STA= 9684. 9700. 10260. 10363. 10461. 10485. 10510. 10580. 10667. 10742. 10919. 11125. 11524.  
PER Q= .0 47.5 3.2 10.0 3.9 3.0 4.0 7.4 3.0 3.6 3.5 4.7  
AREA= 8.7 2476.3 286.4 560.2 181.3 160.7 285.9 449.1 244.2 381.8 391.2 591.0  
VEL= 1.0 6.3 3.6 5.9 7.1 6.2 4.7 5.5 4.1 3.1 2.9 2.6  
DEPTH= .5 4.4 2.8 5.7 7.6 6.3 4.1 5.1 3.3 2.2 1.9 1.5

STA= 11524. 11579. 11618.  
PER Q= 5.1 1.0  
AREA= 299.3 85.3  
VEL= 5.7 3.8  
DEPTH= 5.4 2.2

\*SECNO 23.692

3470 ENCROACHMENT STATIONS= 9650.0 11533.8 TYPE= 1 TARGET= 1883.800  
23.692 43.49 1230.19 1229.54 .00 1231.04 .85 1.97 .12 1229.50  
33000.0 1009.2 19142.9 12847.9 294.3 2173.4 2591.0 22727.5 5446.2 1227.40  
5.95 3.43 8.81 4.96 .055 .035 .045 .000 1186.70 9650.00  
.005594 475. 494. 475. 2 25 0 .00 1794.53 11444.53

FLOW DISTRIBUTION FOR SECNO= 23.69 CWSEL= 1230.19

Effective Model Output  
AGUAFRIA.OUT

STA=	9650.	9870.	10339.	10445.	10560.	10608.	10675.	10840.	11044.	11316.	11357.	11397.	11445.
PER Q=	3.1	58.0	5.4	3.4	3.2	7.0	3.9	3.3	3.5	3.9	3.2	2.2	
AREA=	294.3	2173.4	334.2	261.1	178.7	318.3	317.8	324.7	360.6	188.2	164.9	142.5	
VEL=	3.4	8.8	5.3	4.3	6.0	7.2	4.0	3.4	3.2	6.8	6.4	5.1	
DEPTH=	1.3	4.6	3.2	2.3	3.8	4.7	1.9	1.6	1.3	4.6	4.1	3.0	

\*SECNO 23.790

3470 ENCROACHMENT STATIONS=	9630.0	11371.5	TYPE=	1	TARGET=	1741.500							
23.790	53.24	1232.64	1231.19	.00	1233.10	.47	2.02	.04	1231.10				
31000.0	28.8	16927.7	14043.5	16.6	2525.5	3954.2	22794.9	5466.4	1229.80				
5.98	1.74	6.70	3.55	.055	.035	.055	.000	1179.40	9630.00				
.002901	500.	519.	500.	2	22	0	.00	1677.02	11307.02				

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SECNO	DEPTH	CWSEL	CRISWS	WSELK	EG	HV	HL	OLOSS	L-BANK ELEV
Q	QLOB	QCH	QROB	ALOB	ACH	AROB	VOL	TWA	R-BANK ELEV
TIME	VLOB	VCH	VROB	XNL	XNCH	XNR	WTN	ELMIN	SSTA
SLOPE	XLOBL	XLCH	XLOBR	ITRIAL	IDC	ICONT	CORAR	TOPWID	ENDST

FLOW DISTRIBUTION FOR SECNO= 23.79 CWSEL= 1232.64

STA=	9630.	9641.	10144.	10284.	10503.	10632.	10706.	10762.	10804.	10909.	11055.	11136.	11296.
PER Q=	.1	54.6	4.3	7.0	3.9	3.7	5.0	3.3	3.5	3.3	6.1	5.1	
AREA=	16.6	2525.5	421.8	626.1	388.4	304.8	327.4	227.2	332.0	375.7	428.8	497.6	
VEL=	1.7	6.7	3.1	3.5	3.1	3.7	4.7	4.5	3.3	2.7	4.4	3.1	
DEPTH=	1.5	5.0	3.0	2.9	3.0	4.1	5.8	5.4	3.2	2.6	5.2	3.1	

STA= 11296. 11307.

PER Q= .2  
AREA= 24.5  
VEL= 2.3  
DEPTH= 2.2

\*SECNO 23.881

3470 ENCROACHMENT STATIONS=	9630.0	11328.4	TYPE=	1	TARGET=	1698.400							
23.881	26.73	1233.93	1232.54	.00	1234.61	.68	1.44	.06	1233.30				
31000.0	369.9	21662.6	8967.4	126.7	2839.5	2762.0	22861.3	5484.3	1232.80				
6.00	2.92	7.63	3.25	.055	.035	.055	.000	1207.20	9630.00				
.003193	460.	478.	470.	2	16	0	.00	1626.86	11256.86				

FLOW DISTRIBUTION FOR SECNO= 23.88 CWSEL= 1233.93

STA=	9630.	9683.	10182.	10539.	10709.	10788.	10954.	11021.	11201.	11257.
PER Q=	1.2	69.9	3.4	8.2	3.2	5.9	3.7	3.9	.5	
AREA=	126.7	2839.5	477.7	667.8	278.5	543.6	287.8	434.4	72.1	
VEL=	2.9	7.6	2.2	3.8	3.6	3.4	4.0	2.8	2.2	
DEPTH=	2.4	5.7	1.3	3.9	3.5	3.3	4.3	2.4	1.3	

\*SECNO 23.974

3265 DIVIDED FLOW

3470 ENCROACHMENT STATIONS=	9716.0	11204.9	TYPE=	1	TARGET=	1488.900							
23.974	13.72	1236.02	1234.23	.00	1236.48	.45	1.84	.02	1238.60				
31000.0	.0	14021.5	16978.5	.0	2244.5	3681.6	22927.7	5501.3	1233.10				
6.03	.00	6.25	4.61	.000	.050	.055	.000	1222.30	9719.92				
.004390	460.	492.	500.	2	16	0	.00	1362.59	11085.76				

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SECNO	DEPTH	CWSEL	CRISWS	WSELK	EG	HV	HL	OLOSS	L-BANK ELEV
Q	QLOB	QCH	QROB	ALOB	ACH	AROB	VOL	TWA	R-BANK ELEV
TIME	VLOB	VCH	VROB	XNL	XNCH	XNR	WTN	ELMIN	SSTA
SLOPE	XLOBL	XLCH	XLOBR	ITRIAL	IDC	ICONT	CORAR	TOPWID	ENDST

FLOW DISTRIBUTION FOR SECNO= 23.97 CWSEL= 1236.02

STA=	9720.	10115.	10212.	10355.	10389.	10491.	10645.	10747.	10829.	10995.	11035.	11086.
PER Q=	45.2	3.6	16.0	3.7	4.3	6.8	4.1	4.4	7.6	3.5	.8	
AREA=	2244.5	292.8	843.3	200.1	334.8	519.9	327.1	311.3	574.9	204.0	73.4	
VEL=	6.2	3.8	5.9	5.8	4.0	4.0	3.9	4.4	4.1	5.3	3.4	
DEPTH=	5.7	3.0	5.9	5.8	3.3	3.4	3.2	3.8	3.5	5.1	1.4	

\*SECNO 24.067

3302 WARNING: CONVEYANCE CHANGE OUTSIDE OF ACCEPTABLE RANGE, KRATIO = 1.49

3470 ENCROACHMENT STATIONS=	9230.0	11167.5	TYPE=	1	TARGET=	1937.500							
24.067	8.39	1237.69	1234.96	.00	1237.91	.21	1.41	.02	1232.90				
31000.0	7526.2	13434.4	10039.4	1945.1	3317.7	3270.9	23009.8	5519.6	1235.20				
6.06	3.87	4.05	3.07	.055	.050	.055	.000	1229.30	9230.00				



PER Q=	4.1	3.5	3.4	3.1	3.9	4.5	6.1	4.5	.8	29.3	4.1	8.6
AREA=	449.5	437.6	599.0	360.9	340.0	476.2	596.8	468.6	103.8	2357.9	431.3	823.5
VEL=	2.8	2.5	1.8	2.7	3.5	2.9	3.1	3.0	2.4	3.9	2.9	3.2
DEPTH=	3.5	2.8	1.6	2.3	4.9	3.7	4.2	3.9	2.2	3.9	3.6	4.3

STA= 10532. 10630. 10774. 10835. 10934. 11072. 11261.  
 PER Q= 4.7 5.5 3.0 4.2 3.9 2.8  
 AREA= 441.2 563.8 279.2 412.2 452.8 413.9  
 VEL= 3.3 3.0 3.3 3.2 2.7 2.1  
 DEPTH= 4.5 3.9 4.6 4.2 3.3 2.2

\*SECNO 24.353

3470 ENCROACHMENT STATIONS= 7860.0 11307.9 TYPE= 1 TARGET= 3447.900  
 24.353 6.42 1240.02 1238.63 .00 1240.25 .22 .81 .02 1238.30  
 31000.0 4193.1 15134.9 11671.9 1917.6 3421.8 3457.1 23326.3 5611.5 1238.10  
 6.18 2.19 4.42 3.38 .045 .035 .045 .000 1233.60 7860.00  
 .002009 475. 494. 505. 2 18 0 .00 3412.57 11272.57

FLOW DISTRIBUTION FOR SECNO= 24.35 CWSSEL= 1240.02

STA=	7860.	8116.	8277.	8440.	8696.	9245.	10209.	10366.	10442.	10523.	10659.	10862.	10998.
PER Q=	3.2	3.1	3.1	3.0	1.1	48.8	4.1	3.1	4.8	4.5	3.3	4.4	
AREA=	440.3	373.5	371.4	428.6	303.8	3421.8	434.5	273.0	367.8	432.1	425.6	426.4	
VEL=	2.2	2.6	2.6	2.2	1.2	4.4	2.9	3.5	4.1	3.3	2.4	3.2	
DEPTH=	1.7	2.3	2.3	1.7	.6	3.5	2.8	3.6	4.6	3.2	2.1	3.1	

STA= 10998. 11045. 11258. 11273.  
 PER Q= 3.0 10.0 .3  
 AREA= 224.3 838.5 34.9  
 VEL= 4.2 3.7 2.8  
 DEPTH= 4.8 3.9 2.4

\*SECNO 24.449

3265 DIVIDED FLOW

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SECNO	DEPTH	CWSSEL	CRISWS	WSELK	EG	HV	HL	OLOSS	L-BANK ELEV
Q	QLOB	QCH	QROB	ALOB	ACH	AROB	VOL	TWA	R-BANK ELEV
TIME	VLOB	VCH	VROB	XNL	XNCH	XNR	WTN	ELMIN	SSTA
SLOPE	XLOBL	XLCH	XLOBR	ITRIAL	IDC	ICONT	CORAR	TOPWID	ENDST

3302 WARNING: CONVEYANCE CHANGE OUTSIDE OF ACCEPTABLE RANGE, KRATIO = .68

24.449	6.31	1241.31	1240.50	.00	1241.74	.42	1.43	.06	1240.20
31000.0	4334.2	14108.6	12557.2	1499.3	2251.5	2769.1	23414.6	5646.8	1242.70
6.21	2.89	6.27	4.53	.045	.035	.045	.000	1235.00	7911.24
.004281	460.	503.	525.	2	9	0	.00	2827.36	11319.38

FLOW DISTRIBUTION FOR SECNO= 24.45 CWSSEL= 1241.31

STA=	7911.	8122.	8323.	8550.	9496.	10169.	10553.	10628.	10764.	10975.	11101.	11143.	11292.
PER Q=	3.9	3.7	3.0	3.4	45.5	7.1	3.9	4.9	3.0	4.1	3.0	12.6	
AREA=	373.2	353.7	330.4	442.1	2251.5	572.7	249.8	363.5	320.5	316.4	170.7	664.7	
VEL=	3.2	3.2	2.8	2.4	6.3	3.8	4.8	4.2	2.9	4.0	5.5	5.9	
DEPTH=	1.8	1.8	1.5	.5	3.4	1.5	3.3	2.7	1.5	2.5	4.0	4.5	

STA= 11292. 11319.  
 PER Q= 2.0  
 AREA= 110.7  
 VEL= 5.6  
 DEPTH= 4.1

\*SECNO 24.543

3265 DIVIDED FLOW

24.543	7.75	1243.35	1242.15	.00	1243.67	.32	1.92	.01	1243.50
31000.0	8352.8	8420.6	14226.6	2243.9	1616.9	3152.8	23491.7	5680.5	1243.20
6.24	3.72	5.21	4.51	.045	.035	.045	.000	1235.60	7851.23
.003504	495.	501.	495.	2	8	0	.00	3080.30	11419.23

FLOW DISTRIBUTION FOR SECNO= 24.54 CWSSEL= 1243.35

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SECNO	DEPTH	CWSSEL	CRISWS	WSELK	EG	HV	HL	OLOSS	L-BANK ELEV
Q	QLOB	QCH	QROB	ALOB	ACH	AROB	VOL	TWA	R-BANK ELEV
TIME	VLOB	VCH	VROB	XNL	XNCH	XNR	WTN	ELMIN	SSTA
SLOPE	XLOBL	XLCH	XLOBR	ITRIAL	IDC	ICONT	CORAR	TOPWID	ENDST

STA= 7851. 8182. 8491. 9435. 9582. 9623. 10244. 10598. 10704. 10859. 11081. 11167. 11241.  
 PER Q= 3.1 3.6 3.8 12.6 3.9 27.2 3.5 6.6 5.7 5.3 3.2 4.3

Effective Model Output  
AGUAFRIA.OUT

AREA=	391.6	439.1	506.5	704.5	202.1	1616.9	352.2	419.7	446.9	492.2	249.3	280.0
VEL=	2.4	2.5	2.3	5.6	5.9	5.2	3.1	4.9	4.0	3.3	4.0	4.7
DEPTH=	1.2	1.4	.5	4.8	5.0	3.0	1.0	4.0	2.9	2.2	2.9	3.7

STA=	11241.	11285.	11331.	11366.	11414.	11419.
PER Q=	3.7	4.0	3.2	6.1	.2	
AREA=	208.3	224.0	176.1	287.9	16.2	
VEL=	5.5	5.6	5.7	6.5	3.1	
DEPTH=	4.7	4.8	5.0	6.1	2.8	

\*SECNO 24.631

3265 DIVIDED FLOW

24.631	6.92	1245.12	1244.10	.00	1245.46	.34	1.79	.01	1245.10
31000.0	1545.8	9863.1	19591.2	858.6	1928.2	4210.9	23565.4	5714.6	1245.10
6.27	1.80	5.12	4.65	.050	.035	.050	.000	1238.20	7893.28
.004350	450.	462.	460.	1	16	0	.00	3428.53	11775.17

FLOW DISTRIBUTION FOR SECNO= 24.63 CWSEL= 1245.12

STA=	7893.	8469.	9445.	10225.	10675.	10894.	11200.	11289.	11359.	11502.	11529.	11571.	11672.
PER Q=	3.1	1.9	31.8	3.7	7.9	6.8	5.8	6.1	14.9	3.2	3.1	3.4	
AREA=	495.0	363.6	1928.2	413.5	620.0	646.9	359.4	338.5	767.7	156.8	185.0	276.6	
VEL=	1.9	1.6	5.1	2.7	4.0	3.3	5.0	5.6	6.0	6.4	5.2	3.9	
DEPTH=	.9	.4	2.5	.9	2.8	2.1	4.1	4.8	5.4	5.9	4.3	2.7	

STA=	11672.	11739.	11764.	11775.
PER Q=	4.0	3.8	.5	
AREA=	243.1	166.6	37.0	
VEL=	5.1	7.0	3.9	
DEPTH=	3.6	6.8	3.3	

\*SECNO 24.721

3265 DIVIDED FLOW

24.721	6.43	1247.03	1245.92	.00	1247.28	.25	1.81	.01	1247.70
31000.0	2646.7	8166.8	20186.5	1368.3	1817.3	5031.8	23646.8	5753.7	1247.40
6.30	1.93	4.49	4.01	.050	.035	.050	.000	1240.60	7573.23
.003470	455.	474.	465.	1	14	0	.00	3933.35	12197.40

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SECNO	DEPTH	CWSEL	CRWS	WSELK	EG	HV	HL	OLOSS	L-BANK ELEV
Q	QLOB	QCH	QROB	ALOB	ACH	AROB	VOL	TWA	R-BANK ELEV
TIME	VLOB	VCH	VROB	XNL	XNCH	XNR	WTN	ELMIN	SSTA
SLOPE	XLOBL	XLCH	XLOBR	ITRIAL	IDC	ICONT	CORAR	TOPWID	ENDST

FLOW DISTRIBUTION FOR SECNO= 24.72 CWSEL= 1247.03

STA=	7573.	7924.	8614.	9496.	10326.	10842.	11002.	11186.	11283.	11427.	11543.	11622.	11685.
PER Q=	3.9	3.5	1.1	26.3	5.9	3.8	5.9	4.7	15.2	6.1	4.6	3.0	
AREA=	501.8	626.3	240.3	1817.3	634.7	378.2	520.2	353.9	834.4	438.8	313.8	226.5	
VEL=	2.4	1.7	1.4	4.5	2.9	3.1	3.5	4.1	5.7	4.3	4.5	4.1	
DEPTH=	1.4	.9	.3	2.4	1.2	2.4	2.8	3.6	5.8	3.8	4.0	3.6	

STA=	11685.	11886.	12045.	12140.	12187.	12197.
PER Q=	3.6	3.2	3.6	5.2	.4	
AREA=	386.9	337.5	295.0	279.5	32.3	
VEL=	2.9	2.9	3.8	5.8	3.4	
DEPTH=	1.9	2.1	3.1	5.9	3.2	

\*SECNO 24.816

3265 DIVIDED FLOW

24.816	7.30	1248.70	1247.39	.00	1248.95	.25	1.67	.00	1248.30
31000.0	1705.9	5361.5	23932.5	1017.4	1261.8	5916.3	23738.3	5798.7	1248.80
6.33	1.68	4.25	4.05	.050	.035	.050	.000	1241.40	7539.16
.003391	495.	501.	480.	2	10	0	.00	4089.19	12683.00

FLOW DISTRIBUTION FOR SECNO= 24.82 CWSEL= 1248.70

STA=	7539.	8476.	9702.	10291.	10627.	10971.	11060.	11236.	11299.	11360.	11488.	11859.	11913.
PER Q=	3.2	2.4	17.3	3.4	4.3	4.4	18.9	8.6	4.3	3.1	3.4	4.1	
AREA=	608.0	409.3	1261.8	332.8	533.1	325.9	1038.4	426.6	280.8	304.3	436.1	258.8	
VEL=	1.6	1.8	4.2	3.1	2.5	4.2	5.7	6.2	4.8	3.1	2.4	4.9	
DEPTH=	.6	.3	2.3	1.0	1.6	3.6	5.9	6.8	4.6	2.4	1.2	4.8	

STA=	11913.	12043.	12164.	12366.	12428.	12602.	12683.
PER Q=	4.2	4.4	3.5	4.9	3.1	2.7	
AREA=	368.5	372.4	398.9	299.2	306.8	233.7	
VEL=	3.5	3.7	2.7	5.1	3.1	3.6	
DEPTH=	2.8	3.1	2.0	4.9	1.8	2.9	

\*SECNO 24.910

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SECNO	DEPTH	CWSEL	CRISW	WSELK	EG	HV	HL	OLOSS	L-BANK ELEV
Q	QLOB	QCH	QROB	ALOB	ACH	AROB	VOL	TWA	R-BANK ELEV
TIME	VLOB	VCH	VROB	XNL	XNCH	XNR	WTN	ELMIN	SSTA
SLOPE	XLOBL	XLCH	XLOBR	ITRIAL	IDC	ICONT	CORAR	TOPWID	ENDST

3265 DIVIDED FLOW

24.910	6.49	1250.39	1248.97	.00	1250.62	.23	1.67	.00	1251.10
31000.0	3033.6	4091.8	23874.6	1270.1	1062.7	6018.7	23830.8	5845.7	1251.00
6.37	2.39	3.85	3.97	.050	.035	.050	.000	1243.90	7621.16
.003472	485.	498.	485.	1	17	0	.00	4324.22	12982.12

FLOW DISTRIBUTION FOR SECNO= 24.91 CWSEL= 1250.39

STA=	7621.	7941.	9130.	9350.	10254.	10723.	10755.	10965.	11035.	11153.	11377.	11707.	12060.
PER Q=	4.8	3.7	1.3	13.2	14.3	3.1	8.6	4.2	12.9	3.4	3.7	4.8	
AREA=	553.5	544.5	172.2	1062.7	1059.2	176.2	689.3	291.5	699.0	350.0	412.7	405.2	
VEL=	2.7	2.1	2.3	3.9	4.2	5.5	3.9	4.5	5.7	3.0	2.8	3.6	
DEPTH=	1.7	.5	.8	1.9	2.3	5.5	3.3	4.1	5.9	1.6	1.2	1.1	

STA=	12060.	12198.	12351.	12427.	12490.	12952.	12982.
PER Q=	4.3	4.9	5.1	3.2	3.3	1.1	
AREA=	381.7	433.7	328.1	231.5	469.1	91.5	
VEL=	3.5	3.5	4.8	4.2	2.2	3.7	
DEPTH=	2.8	2.8	4.3	3.7	1.0	3.0	

\*SECNO 24.996

3265 DIVIDED FLOW

24.996	5.78	1252.08	1251.07	.00	1252.35	.27	1.72	.01	1253.10
31000.0	4399.9	9186.3	17413.8	1485.8	1912.5	4266.4	23912.0	5887.3	1251.00
6.40	2.96	4.80	4.08	.050	.035	.050	.000	1246.30	7833.25
.004372	435.	453.	440.	2	17	0	.00	3903.65	13065.66

FLOW DISTRIBUTION FOR SECNO= 25.00 CWSEL= 1252.08

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SECNO	DEPTH	CWSEL	CRISW	WSELK	EG	HV	HL	OLOSS	L-BANK ELEV
Q	QLOB	QCH	QROB	ALOB	ACH	AROB	VOL	TWA	R-BANK ELEV
TIME	VLOB	VCH	VROB	XNL	XNCH	XNR	WTN	ELMIN	SSTA
SLOPE	XLOBL	XLCH	XLOBR	ITRIAL	IDC	ICONT	CORAR	TOPWID	ENDST

STA=	7833.	8048.	8202.	8653.	9628.	10632.	10901.	10938.	11048.	11141.	11364.	12002.	12163.
PER Q=	3.9	4.3	3.0	2.9	29.6	7.4	3.6	4.4	9.9	4.0	4.7	3.2	
AREA=	402.5	370.8	387.4	325.1	1912.5	566.9	189.8	328.7	505.1	395.4	479.3	309.1	
VEL=	3.0	3.6	2.4	2.8	4.8	4.0	5.9	4.1	6.1	3.1	3.1	3.2	
DEPTH=	1.9	2.4	.9	.3	2.2	2.1	5.2	3.0	5.4	1.8	.8	1.9	

STA=	12163.	12369.	12558.	13066.
PER Q=	9.2	6.9	2.8	
AREA=	666.0	530.1	295.9	
VEL=	4.3	4.0	3.0	
DEPTH=	3.2	2.8	.6	

\*SECNO 25.098

3265 DIVIDED FLOW

25.098	5.78	1254.38	1253.33	.00	1254.67	.29	2.31	.00	1255.20
31000.0	5194.4	8538.7	17266.9	1474.2	1610.7	4372.0	24003.6	5933.4	1252.80
6.43	3.52	5.30	3.95	.050	.035	.050	.000	1248.60	8060.03
.004384	535.	540.	520.	2	15	0	.00	3697.04	12888.47

FLOW DISTRIBUTION FOR SECNO= 25.10 CWSEL= 1254.38

STA=	8060.	8316.	8452.	9699.	9845.	9852.	10547.	10724.	10938.	11029.	11131.	11416.	12032.
PER Q=	3.0	7.5	3.0	3.2	.0	27.5	4.4	6.7	4.0	11.0	3.4	7.1	
AREA=	320.5	498.1	348.7	304.7	2.2	1610.7	401.7	556.2	289.2	558.2	403.4	649.4	
VEL=	2.9	4.7	2.7	3.2	1.0	5.3	3.4	3.7	4.3	6.1	2.6	3.4	
DEPTH=	1.3	3.7	.3	2.1	.3	2.6	2.3	2.6	3.2	5.5	1.4	1.1	

STA=	12032.	12111.	12408.	12534.	12815.	12888.
PER Q=	6.6	4.1	3.4	4.4	.7	
AREA=	369.7	312.7	289.1	467.2	75.2	
VEL=	5.6	4.0	3.6	2.9	2.7	
DEPTH=	4.7	1.1	2.3	1.7	1.0	

\*SECNO 25.192

3265 DIVIDED FLOW

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SECNO	DEPTH	CWSEL	CRISW	WSELK	EG	HV	HL	OLOSS	L-BANK ELEV
Q	QLOB	QCH	QROB	ALOB	ACH	AROB	VOL	TWA	R-BANK ELEV
TIME	VLOB	VCH	VROB	XNL	XNCH	XNR	WTN	ELMIN	SSTA
SLOPE	XLOBL	XLCH	XLOBR	ITRIAL	IDC	ICONT	CORAR	TOPWID	ENDST

3470 ENCROACHMENT STATIONS= 8282.6 12674.3 TYPE= 1 TARGET= 4391.700  
 25.192 6.15 1256.15 1255.23 .00 1256.51 .36 1.82 .02 1257.10  
 29000.0 3665.2 13551.1 11783.8 1329.4 2153.4 3815.9 24089.0 5976.0 1254.20  
 6.46 2.76 6.29 3.09 .050 .030 .050 .000 1250.00 8291.70  
 .002995 540. 499. 495. 2 10 0 .00 3604.25 12651.69

FLOW DISTRIBUTION FOR SECNO= 25.19 CWSEL= 1256.15

STA=	8292.	8537.	8639.	8842.	9436.	10463.	10777.	10889.	10964.	11191.	11410.	11757.	11842.
PER Q=	5.5	3.2	3.4	.6	46.7	6.4	3.8	7.0	3.2	3.4	5.3	4.1	
AREA=	504.9	284.7	383.5	156.4	2153.4	677.7	327.0	403.6	364.6	404.7	573.3	304.7	
VEL=	3.2	3.2	2.5	1.0	6.3	2.7	3.3	5.0	2.5	2.5	2.7	3.9	
DEPTH=	2.1	2.8	1.9	.3	3.5	2.2	2.9	5.4	1.6	1.8	1.7	3.6	

STA=	11842.	11883.	12550.	12652.
PER Q=	3.8	3.1	.6	
AREA=	221.0	439.4	99.9	
VEL=	5.0	2.1	1.9	
DEPTH=	5.3	.7	1.0	

\*SECNO 25.288

3265 DIVIDED FLOW

25.288	6.39	1257.69	1257.35	.00	1258.48	.80	1.85	.13	1259.10
29000.0	1398.6	19166.9	8434.5	573.5	2254.4	2507.3	24162.8	6012.6	1254.90
6.49	2.44	8.50	3.36	.050	.030	.050	.000	1251.30	8869.25
.004529	550.	504.	500.	2	5	0	.00	2605.54	12345.34

FLOW DISTRIBUTION FOR SECNO= 25.29 CWSEL= 1257.69

STA=	8869.	9119.	9537.	10366.	10618.	10727.	11148.	11423.	11515.	11610.	11973.	12345.
PER Q=	3.5	1.4	66.1	3.4	3.8	3.4	3.9	3.8	6.9	3.3	.5	
AREA=	369.6	203.9	2254.4	368.4	286.0	400.0	407.1	270.1	387.6	295.5	92.5	
VEL=	2.7	1.9	8.5	2.7	3.9	2.5	2.8	4.1	5.2	3.3	1.4	
DEPTH=	1.5	.5	4.1	1.5	2.6	1.0	1.5	2.9	4.1	.8	.2	

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SECNO	DEPTH	CWSEL	CRISW	WSELK	EG	HV	HL	OLOSS	L-BANK ELEV
Q	QLOB	QCH	QROB	ALOB	ACH	AROB	VOL	TWA	R-BANK ELEV
TIME	VLOB	VCH	VROB	XNL	XNCH	XNR	WTN	ELMIN	SSTA
SLOPE	XLOBL	XLCH	XLOBR	ITRIAL	IDC	ICONT	CORAR	TOPWID	ENDST

\*SECNO 25.382

3265 DIVIDED FLOW

25.382	5.91	1259.61	1259.12	.00	1260.37	.76	1.89	.00	1259.40
29000.0	654.2	21625.1	6720.7	347.0	2709.8	2589.4	24224.8	6042.0	1256.70
6.51	1.89	7.98	2.60	.050	.030	.050	.000	1253.70	9272.29
.003255	440.	498.	495.	2	15	0	.00	2671.20	12069.27

FLOW DISTRIBUTION FOR SECNO= 25.38 CWSEL= 1259.61

STA=	9272.	9742.	10312.	10531.	10740.	11233.	11341.	11485.	11963.	12069.
PER Q=	2.3	74.6	5.2	3.4	4.7	3.4	3.2	3.0	.3	
AREA=	347.0	2709.8	501.2	383.1	644.8	296.2	312.9	393.1	58.1	
VEL=	1.9	8.0	3.0	2.6	2.1	3.3	2.9	2.2	1.4	
DEPTH=	.7	4.8	2.3	1.8	1.3	2.8	2.2	.8	.5	

\*SECNO 25.478

3265 DIVIDED FLOW

25.478	7.30	1261.20	1260.93	.00	1262.29	1.09	1.82	.10	1261.90
29000.0	217.1	19972.4	8810.5	79.7	2031.0	2552.2	24283.0	6068.1	1257.70
6.52	2.72	9.83	3.45	.050	.030	.050	.000	1253.90	9581.13
.004123	535.	506.	475.	2	11	0	.00	1988.18	11749.51

FLOW DISTRIBUTION FOR SECNO= 25.48 CWSEL= 1261.20

STA=	9581.	9634.	10127.	10224.	10332.	10396.	10505.	10567.	11184.	11665.	11750.
PER Q=	.7	68.9	4.3	4.6	3.7	6.0	3.9	3.4	3.5	1.0	
AREA=	79.7	2031.0	304.3	330.5	235.4	388.4	238.7	460.2	477.7	117.0	
VEL=	2.7	9.8	4.1	4.0	4.6	4.5	4.7	2.2	2.1	2.5	
DEPTH=	1.5	5.5	3.2	3.0	3.7	3.6	3.8	.7	1.0	1.4	

\*SECNO 25.526

3265 DIVIDED FLOW

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SECNO	DEPTH	CWSEL	CRISW	WSELK	EG	HV	HL	OLOSS	L-BANK ELEV
Q	QLOB	QCH	QROB	ALOB	ACH	AROB	VOL	TWA	R-BANK ELEV
TIME	VLOB	VCH	VROB	XNL	XNCH	XNR	WTN	ELMIN	SSTA
SLOPE	XLOBL	XLCH	XLOBR	ITRIAL	IDC	ICONT	CORAR	TOPWID	ENDST

3470 ENCROACHMENT STATIONS= 9639.4 11600.0 TYPE= 1 TARGET= 1960.600  
 25.526 8.71 1262.41 1261.34 .00 1263.12 .71 .79 .04 1262.50  
 29000.0 .0 17266.8 11733.2 .0 2062.4 3686.5 24313.4 6079.3 1257.10  
 6.53 .01 8.37 3.18 .000 .030 .050 .000 1253.70 9668.29  
 .002443 255. 253. 255. 2 8 0 .00 1820.60 11600.00

FLOW DISTRIBUTION FOR SECNO= 25.53 CWSEL= 1262.41

STA=	9668.	10104.	10184.	10267.	10342.	10412.	10552.	10604.	10659.	11024.	11470.	11562.	11600.
PER Q=	59.5	5.7	4.4	3.4	3.3	4.7	3.0	3.4	3.0	3.4	4.8	1.2	
AREA=	2062.4	390.4	336.5	280.6	268.7	435.4	226.7	244.9	474.5	542.8	372.6	113.6	
VEL=	8.4	4.2	3.8	3.5	3.6	3.2	3.9	4.0	1.8	1.8	3.8	3.0	
DEPTH=	6.4	4.9	4.1	3.7	3.8	3.1	4.3	4.5	1.3	1.2	4.0	3.0	

\*SECNO 25.572

3470 ENCROACHMENT STATIONS= 9671.0 11498.9 TYPE= 1 TARGET= 1827.900  
 25.572 8.18 1262.88 1261.85 .00 1263.78 .90 .60 .06 1257.70  
 29000.0 356.9 18111.4 10531.6 104.4 1945.8 3217.8 24344.0 6088.8 1257.70  
 6.54 3.42 9.31 3.27 .050 .030 .050 .000 1254.70 9814.71  
 .002486 255. 245. 240. 2 15 0 .00 1625.75 11440.46

FLOW DISTRIBUTION FOR SECNO= 25.57 CWSEL= 1262.88

STA=	9815.	9850.	10115.	10168.	10221.	10278.	10386.	10535.	10613.	10665.	11199.	11422.	11440.
PER Q=	1.2	62.5	3.9	3.5	3.6	4.6	4.4	4.0	3.1	3.0	5.6	.6	
AREA=	104.4	1945.8	264.0	246.2	256.9	382.4	427.6	312.6	224.1	532.8	519.0	52.2	
VEL=	3.4	9.3	4.3	4.2	4.1	3.5	3.0	3.8	4.0	1.6	3.1	3.1	
DEPTH=	3.0	7.3	5.0	4.7	4.5	3.5	2.9	4.0	4.3	1.0	2.3	2.8	

\*SECNO 25.666

3265 DIVIDED FLOW

3470 ENCROACHMENT STATIONS= 9765.6 11195.3 TYPE= 1 TARGET= 1429.700  
 25.666 8.64 1264.04 1262.90 .00 1265.02 .99 1.22 .03 1259.80  
 29000.0 309.3 19379.5 9311.3 99.0 2051.9 2665.3 24400.4 6104.6 1258.30  
 6.56 3.12 9.44 3.49 .050 .030 .050 .000 1255.40 9802.11  
 .002477 525. 497. 480. 2 15 0 .00 1218.05 11114.11

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SECNO	DEPTH	CWSEL	CRISW	WSELK	EG	HV	HL	OLOSS	L-BANK ELEV
Q	QLOB	QCH	QROB	ALOB	ACH	AROB	VOL	TWA	R-BANK ELEV
TIME	VLOB	VCH	VROB	XNL	XNCH	XNR	WTN	ELMIN	SSTA
SLOPE	XLOBL	XLCH	XLOBR	ITRIAL	IDC	ICONT	CORAR	TOPWID	ENDST

FLOW DISTRIBUTION FOR SECNO= 25.67 CWSEL= 1264.04

STA=	9802.	9842.	10115.	10156.	10210.	10260.	10355.	10430.	10522.	10940.	11048.	11114.
PER Q=	1.1	66.8	3.3	3.6	3.1	4.9	3.0	3.7	3.6	4.4	2.4	
AREA=	99.0	2051.9	211.5	254.3	225.8	381.1	260.4	317.6	431.8	371.8	211.0	
VEL=	3.1	9.4	4.5	4.1	4.0	3.8	3.4	3.4	2.4	3.4	3.3	
DEPTH=	2.5	7.5	5.2	4.6	4.5	4.0	3.4	3.5	1.0	3.4	3.2	

\*SECNO 25.691

25.691 7.52 1265.52 1264.13 .00 1266.09 .57 1.02 .04 1263.60  
 29000.0 1405.6 23272.4 4322.1 628.6 3506.6 1608.3 24456.2 6119.7 1262.00  
 6.58 2.24 6.64 2.69 .050 .030 .050 .000 1258.00 9210.46  
 .001997 470. 460. 460. 2 16 0 .00 1622.66 10833.12

FLOW DISTRIBUTION FOR SECNO= 25.69 CWSEL= 1265.52

STA=	9210.	9485.	9521.	10196.	10287.	10445.	10555.	10787.	10833.
PER Q=	3.7	1.2	80.2	3.4	3.3	3.8	4.3	.2	
AREA=	512.5	116.1	3506.6	320.7	373.9	369.4	508.9	35.4	
VEL=	2.1	2.9	6.6	3.1	2.5	3.0	2.4	1.3	
DEPTH=	1.9	3.2	5.2	3.5	2.4	3.4	2.2	.8	

\*SECNO 25.720

3301 HV CHANGED MORE THAN HVINS

7185 MINIMUM SPECIFIC ENERGY  
3720 CRITICAL DEPTH ASSUMED

25.720	8.59	1266.39	1266.39	.00	1267.75	1.37	1.17	.24	1264.00
29000.0	6290.3	12748.7	9961.0	1717.5	973.0	1876.9	24499.3	6133.1	1260.00
6.60	3.66	13.10	5.31	.050	.030	.050	.000	1257.80	9033.37
.005799	355.	375.	355.	0	11	0	.00	1639.09	10672.46

FLOW DISTRIBUTION FOR SECNO= 25.72 CWSEL= 1266.39

STA=	9033.	9370.	9635.	9785.	9925.	10075.	10380.	10630.	10672.
PER Q=	4.7	8.4	5.7	2.9	44.0	28.0	5.1	1.2	
AREA=	467.5	611.9	388.0	250.1	973.0	1337.9	446.6	92.4	
VEL=	2.9	4.0	4.3	3.3	13.1	6.1	3.3	3.9	
DEPTH=	1.4	2.3	2.6	1.8	6.5	4.4	1.8	2.2	

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SECNO	DEPTH	CWSEL	CRIWS	WSELK	EG	HV	HL	OLOSS	L-BANK ELEV
Q	QLOB	QCH	QROB	ALOB	ACH	AROB	VOL	TWA	R-BANK ELEV
TIME	VLOB	VCH	VROB	XNL	XNCH	XNR	WTN	ELMIN	SSTA
SLOPE	XLOBL	XLCH	XLOBR	ITRIAL	IDC	ICONT	CORAR	TOPWID	ENDST

\*SECNO 25.790

3301 HV CHANGED MORE THAN HVINS

3302 WARNING: CONVEYANCE CHANGE OUTSIDE OF ACCEPTABLE RANGE, KRATIO = 1.71

25.790	9.55	1268.35	1267.23	.00	1268.93	.58	1.10	.08	1264.00
29000.0	9093.9	10203.0	9703.1	3414.3	1111.6	2351.7	24545.3	6147.1	1260.00
6.61	2.66	9.18	4.13	.050	.030	.050	.000	1258.80	8663.71
.001972	350.	350.	350.	2	6	0	.00	1847.17	10510.88

FLOW DISTRIBUTION FOR SECNO= 25.79 CWSEL= 1268.35

STA=	8664.	9405.	9465.	9720.	9835.	9930.	10060.	10325.	10400.	10480.	10500.	10511.
PER Q=	13.5	3.2	6.7	3.0	5.0	35.2	26.3	2.9	3.1	1.1	1.1	.2
AREA=	1685.3	261.0	726.9	327.8	413.3	1111.6	1682.9	270.0	288.0	87.0	23.7	
VEL=	2.3	3.5	2.7	2.7	3.5	9.2	4.5	3.1	3.1	3.5	2.1	
DEPTH=	2.3	4.4	2.9	2.9	4.4	8.6	6.4	3.6	3.6	4.4	2.2	

\*SECNO 25.860

3265 DIVIDED FLOW

3301 HV CHANGED MORE THAN HVINS

7185 MINIMUM SPECIFIC ENERGY  
3720 CRITICAL DEPTH ASSUMED

25.860	8.84	1268.84	1268.84	.00	1270.39	1.55	1.02	.29	1264.00
29000.0	6593.5	22379.7	26.8	2309.5	1987.9	11.0	24596.6	6163.6	1264.00
6.63	2.85	11.26	2.44	.050	.030	.050	.000	1260.00	8283.24
.003443	400.	400.	400.	0	11	0	.00	1729.92	10204.54

FLOW DISTRIBUTION FOR SECNO= 25.86 CWSEL= 1268.84

STA=	8283.	9335.	9600.	9940.	10200.	10205.
PER Q=	5.8	10.2	6.8	77.2	.1	
AREA=	839.5	805.1	665.0	1987.9	11.0	
VEL=	2.0	3.7	3.0	11.3	2.4	
DEPTH=	.8	3.0	2.0	7.6	2.4	

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SECNO	DEPTH	CWSEL	CRIWS	WSELK	EG	HV	HL	OLOSS	L-BANK ELEV
Q	QLOB	QCH	QROB	ALOB	ACH	AROB	VOL	TWA	R-BANK ELEV
TIME	VLOB	VCH	VROB	XNL	XNCH	XNR	WTN	ELMIN	SSTA
SLOPE	XLOBL	XLCH	XLOBR	ITRIAL	IDC	ICONT	CORAR	TOPWID	ENDST

\*SECNO 25.940

3301 HV CHANGED MORE THAN HVINS

7185 MINIMUM SPECIFIC ENERGY  
3720 CRITICAL DEPTH ASSUMED

25.940	8.37	1271.77	1271.77	.00	1272.71	.94	2.06	.06	1269.20
29000.0	9070.7	11475.6	8453.7	2860.1	1000.9	1992.1	24647.7	6186.3	1267.00
6.64	3.17	11.47	4.24	.060	.035	.065	.000	1263.40	8140.96
.006981	450.	430.	420.	0	10	0	.00	2745.91	10886.87

FLOW DISTRIBUTION FOR SECNO= 25.94 CWSEL= 1271.77

STA=	8141.	8578.	9101.	9241.	9532.	9945.	10117.	10185.	10242.	10480.	10780.	10887.
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PER Q=	3.7	4.7	6.7	10.0	6.3	39.6	10.3	5.5	3.5	8.6	1.2
AREA=	465.5	560.8	436.9	748.1	648.7	1000.9	446.8	286.2	384.8	726.2	148.1
VEL=	2.3	2.4	4.4	3.9	2.8	11.5	6.7	5.6	2.6	3.4	2.4
DEPTH=	1.1	1.1	3.1	2.6	1.6	5.8	6.6	5.0	1.6	2.4	1.4

\*SECNO 26.030

3301 HV CHANGED MORE THAN HVINS

3302 WARNING: CONVEYANCE CHANGE OUTSIDE OF ACCEPTABLE RANGE, KRATIO = 1.74

26.030	7.81	1274.11	1272.50	.00	1274.35	.24	1.57	.07	1272.10
29000.0	9163.9	11802.3	8033.8	3659.5	2180.1	3404.4	24718.7	6213.6	1269.60
6.68	2.50	5.41	2.36	.060	.035	.065	.000	1266.30	8051.78
.002295	310.	460.	500.	3	14	0	.00	3341.97	11393.75

FLOW DISTRIBUTION FOR SECNO= 26.03 CWSEL= 1274.11

STA=	8052.	8747.	9174.	9265.	9439.	9605.	10107.	10219.	10664.	11124.	11394.
PER Q=	5.5	7.7	5.1	9.8	3.6	40.7	4.9	4.8	16.5	1.5	
AREA=	903.9	1030.2	437.9	837.3	450.2	2180.1	488.6	822.7	1776.5	316.7	
VEL=	1.8	2.2	3.4	3.4	2.3	5.4	2.9	1.7	2.7	1.4	
DEPTH=	1.3	2.4	4.8	4.8	2.7	4.3	4.4	1.8	3.9	1.2	

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SECNO	DEPTH	CWSEL	CRISWS	WSELK	EG	HV	HL	OLOSS	L-BANK ELEV
Q	QLOB	QCH	QROB	ALOB	ACH	AROB	VOL	TWA	R-BANK ELEV
TIME	VLOB	VCH	VROB	XNL	XNCH	XNR	WTN	ELMIN	SSTA
SLOPE	XLOBL	XLCH	XLOBR	ITRIAL	IDC	ICONT	CORAR	TOPWID	ENDST

\*SECNO 26.120

3265 DIVIDED FLOW

26.120	7.63	1275.23	1273.52	.00	1275.45	.22	1.10	.00	1273.50
29000.0	10602.5	8165.6	10231.9	3725.8	1434.4	4109.5	24815.7	6249.4	1273.80
6.71	2.85	5.69	2.49	.060	.035	.065	.000	1267.60	8229.61
.002549	410.	450.	505.	3	14	0	.00	3465.64	11804.21

FLOW DISTRIBUTION FOR SECNO= 26.12 CWSEL= 1275.23

STA=	8230.	8813.	8961.	9161.	9271.	9382.	9454.	9730.	10061.	10363.	10560.	11007.	11312.
PER Q=	3.4	4.4	6.7	4.9	3.5	5.9	7.7	28.2	5.9	4.4	6.5	16.7	
AREA=	504.7	470.5	685.8	448.7	361.4	423.3	831.5	1434.4	722.5	557.3	973.9	1472.8	
VEL=	2.0	2.7	2.8	3.2	2.8	4.1	2.7	5.7	2.4	2.3	1.9	3.3	
DEPTH=	.9	3.2	3.4	4.1	3.3	5.9	3.0	4.3	2.4	2.8	2.2	4.8	

STA= 11312. 11804.

PER Q=	1.6
AREA=	382.9
VEL=	1.2
DEPTH=	.8

\*SECNO 26.200

3265 DIVIDED FLOW

3302 WARNING: CONVEYANCE CHANGE OUTSIDE OF ACCEPTABLE RANGE, KRATIO = .63

26.200	7.59	1276.79	1276.07	.00	1277.30	.52	1.77	.09	1275.50
29000.0	10200.8	11192.4	7606.8	2582.0	1405.1	2176.9	24897.2	6280.9	1276.90
6.74	3.95	7.97	3.49	.060	.035	.065	.000	1269.20	8536.79
.006429	460.	460.	460.	2	10	0	.00	2504.92	11657.59

FLOW DISTRIBUTION FOR SECNO= 26.20 CWSEL= 1276.79

STA=	8537.	9010.	9129.	9355.	9682.	10073.	10571.	10720.	11247.	11658.
PER Q=	12.5	5.1	12.7	4.9	38.6	4.1	5.4	14.8	2.0	
AREA=	904.7	356.1	800.5	520.7	1405.1	356.4	423.5	1215.4	181.7	
VEL=	4.0	4.1	4.6	2.7	8.0	3.4	3.7	3.5	3.1	
DEPTH=	1.9	3.0	3.5	1.6	3.6	.7	2.8	2.3	.4	

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SECNO	DEPTH	CWSEL	CRISWS	WSELK	EG	HV	HL	OLOSS	L-BANK ELEV
Q	QLOB	QCH	QROB	ALOB	ACH	AROB	VOL	TWA	R-BANK ELEV
TIME	VLOB	VCH	VROB	XNL	XNCH	XNR	WTN	ELMIN	SSTA
SLOPE	XLOBL	XLCH	XLOBR	ITRIAL	IDC	ICONT	CORAR	TOPWID	ENDST

\*SECNO 26.290

3265 DIVIDED FLOW

26.290	7.41	1279.01	1277.95	.00	1279.44	.43	2.13	.01	1276.70
29000.0	9458.2	13409.6	6132.1	2946.0	1895.0	2480.3	24964.9	6310.2	1278.80
6.76	3.21	7.08	2.47	.060	.035	.065	.000	1271.60	8461.54
.003781	460.	440.	410.	2	14	0	.00	3366.23	11867.93

FLOW DISTRIBUTION FOR SECNO= 26.29 CWSEL= 1279.01

STA=	8462.	8962.	9349.	9696.	10120.	11021.	11201.	11724.	11868.
PER Q=	7.2	6.8	18.6	46.2	6.6	10.9	3.2	.4	
AREA=	747.6	797.4	1401.0	1895.0	1008.0	820.9	570.0	81.5	
VEL=	2.8	2.5	3.9	7.1	1.9	3.9	1.6	1.5	
DEPTH=	1.5	2.1	4.0	4.5	1.1	4.6	1.1	.6	

\*SECNO 26.370

3265 DIVIDED FLOW

26.370	8.69	1280.59	1279.21	.00	1280.91	.32	1.45	.01	1278.00
29000.0	8261.3	10810.2	9928.5	2885.9	1616.8	4500.8	25053.2	6347.6	1276.60
6.79	2.86	6.69	2.21	.060	.035	.065	.000	1271.90	8629.11
.002584	490.	460.	460.	3	5	0	.00	3563.63	12251.68

FLOW DISTRIBUTION FOR SECNO= 26.37 CWSEL= 1280.59

STA=	8629.	9094.	9552.	9626.	9764.	10060.	10278.	11081.	11323.	11846.	12252.
PER Q=	10.1	4.0	4.8	9.6	37.3	3.9	16.0	4.1	9.6	.7	
AREA=	1087.2	692.7	376.4	729.5	1616.8	531.2	1903.6	524.9	1300.4	240.7	
VEL=	2.7	1.7	3.7	3.8	6.7	2.1	2.4	2.3	2.1	.8	
DEPTH=	2.3	1.5	5.1	5.3	5.5	2.4	2.4	2.2	2.5	.6	

\*SECNO 26.470

3265 DIVIDED FLOW

26.470	6.75	1282.05	1280.98	.00	1282.58	.53	1.61	.06	1280.10
27000.0	3717.6	14392.7	8889.7	1372.8	1934.2	2697.3	25137.7	6380.6	1280.30
6.82	2.71	7.44	3.30	.060	.035	.070	.000	1275.30	8987.28
.004373	510.	490.	480.	2	14	0	.00	2305.19	12464.30

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SECNO	DEPTH	CWSEL	CRISW	WSELK	EG	HV	HL	OLOSS	L-BANK ELEV
Q	QLOB	QCH	QROB	ALOB	ACH	AROB	VOL	TWA	R-BANK ELEV
TIME	VLOB	VCH	VROB	XNL	XNCH	XNR	WTN	ELMIN	SSTA
SLOPE	XLOBL	XLCH	XLOBR	ITRIAL	IDC	ICONT	CORAR	TOPWID	ENDST

FLOW DISTRIBUTION FOR SECNO= 26.47 CWSEL= 1282.05

STA=	8987.	9010.	9341.	9639.	10087.	10375.	10594.	10860.	11007.	11028.	12356.	12464.
PER Q=	.1	7.2	6.5	53.3	1.4	3.3	17.6	10.2	.3	.0	.0	.0
AREA=	22.1	710.8	639.9	1934.2	272.8	415.5	1222.9	697.9	42.3	27.0	18.8	
VEL=	1.6	2.7	2.7	7.4	1.4	2.2	3.9	4.0	2.2	.4	.4	
DEPTH=	1.0	2.1	2.1	4.3	.9	1.9	4.6	4.7	2.0	.0	.2	

\*SECNO 26.550

3265 DIVIDED FLOW

26.550	7.39	1283.99	1282.97	.00	1284.45	.47	1.87	.01	1283.30
27000.0	3752.5	12379.9	10867.6	1191.9	1672.1	3651.1	25199.2	6409.0	1280.00
6.84	3.15	7.40	2.98	.060	.035	.070	.000	1276.60	9223.34
.004355	420.	430.	430.	3	11	0	.00	3474.63	13036.77

FLOW DISTRIBUTION FOR SECNO= 26.55 CWSEL= 1283.99

STA=	9223.	9245.	9507.	9728.	10117.	10254.	10786.	10897.	10931.	10976.	11788.	13009.	13037.
PER Q=	.5	11.2	2.2	45.9	4.4	26.5	6.5	1.1	.5	.2	1.0	.0	.0
AREA=	48.6	848.0	295.4	1672.1	409.2	2067.7	475.8	99.8	70.0	115.0	410.9	2.6	
VEL=	2.8	3.6	2.0	7.4	2.9	3.5	3.7	2.9	1.9	.5	.7	.3	
DEPTH=	2.2	3.2	1.3	4.3	3.0	3.9	4.3	2.9	1.5	.1	.3	.1	

\*SECNO 26.630

26.630	6.36	1285.76	1283.99	.00	1286.04	.28	1.57	.02	1284.10
27000.0	1955.5	10765.5	14279.1	783.5	1780.7	6051.5	25279.8	6448.7	1281.80
6.88	2.50	6.05	2.36	.060	.035	.070	.000	1279.40	9493.56
.002723	440.	460.	470.	2	14	0	.00	3949.67	13443.23

FLOW DISTRIBUTION FOR SECNO= 26.63 CWSEL= 1285.76

STA=	9494.	9510.	9641.	9792.	10187.	10467.	10741.	10861.	11016.	11057.	11351.	12475.	13443.
PER Q=	.2	4.1	3.0	39.9	13.6	19.9	6.3	3.6	.4	.1	5.1	3.9	
AREA=	25.2	401.3	356.9	1780.7	1235.8	1538.1	553.6	436.1	64.1	77.5	1195.6	950.6	
VEL=	1.7	2.7	2.3	6.0	3.0	3.5	3.1	2.2	1.5	.5	1.2	1.1	
DEPTH=	1.5	3.1	2.4	4.5	4.4	5.6	4.6	2.8	1.6	.3	1.1	1.0	

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SECNO	DEPTH	CWSEL	CRISW	WSELK	EG	HV	HL	OLOSS	L-BANK ELEV
Q	QLOB	QCH	QROB	ALOB	ACH	AROB	VOL	TWA	R-BANK ELEV
TIME	VLOB	VCH	VROB	XNL	XNCH	XNR	WTN	ELMIN	SSTA
SLOPE	XLOBL	XLCH	XLOBR	ITRIAL	IDC	ICONT	CORAR	TOPWID	ENDST

\*SECNO 26.730

3265 DIVIDED FLOW

3470 ENCROACHMENT STATIONS=	9355.0	13648.0	TYPE=	1	TARGET=	4293.000			
26.730	7.09	1286.89	1285.00	.00	1287.47	.58	1.34	.09	1280.70
27000.0	1547.1	12856.6	12596.3	538.8	1559.8	4103.7	25360.3	6488.0	1279.90
6.90	2.87	8.24	3.07	.060	.035	.070	.000	1279.80	9724.11
.002885	460.	490.	470.	2	15	0	.00	3319.57	13352.24

FLOW DISTRIBUTION FOR SECNO= 26.73 CWSEL= 1286.89

STA=	9724.	9898.	10125.	10364.	10521.	10628.	11057.	13352.	
PER Q=	5.7	47.6	25.9	6.0	6.2	8.1	.5		
AREA=	538.8	1559.8	1673.3	586.4	516.9	1051.6	275.6		
VEL=	2.9	8.2	4.2	2.8	3.3	2.1	.4		
DEPTH=	3.1	6.9	7.0	3.7	4.8	2.5	.1		

\*SECNO 26.830

26.830	6.37	1288.37	1287.90	.00	1289.18	.80	1.64	.07	1282.60
27000.0	248.7	13188.4	13562.9	71.1	1341.2	4534.4	25414.9	6515.5	1282.30
6.92	3.50	9.83	2.99	.060	.035	.070	.000	1282.00	9873.37
.005022	550.	540.	330.	2	12	0	.00	3536.39	13409.76

FLOW DISTRIBUTION FOR SECNO= 26.83 CWSEL= 1288.37

STA=	9873.	9898.	10125.	10343.	10362.	10962.	11136.	11195.	11584.	12676.	13410.
PER Q=	.9	48.8	25.6	1.2	12.7	5.5	1.0	.4	2.8	1.0	
AREA=	71.1	1341.2	1357.2	83.1	1335.4	491.6	116.6	146.1	683.2	321.2	
VEL=	3.5	9.8	5.1	4.0	2.6	3.0	2.4	.8	1.1	.9	
DEPTH=	2.9	5.9	6.2	4.4	2.2	2.8	2.0	.4	.6	.4	

\*SECNO 26.940

3302 WARNING: CONVEYANCE CHANGE OUTSIDE OF ACCEPTABLE RANGE, KRATIO = 1.52

26.940	8.07	1290.17	1288.62	.00	1290.76	.58	1.56	.02	1282.10
27000.0	3222.6	14797.8	8979.6	827.4	1856.7	5095.8	25481.6	6545.0	1282.10
6.94	3.90	7.97	1.76	.060	.035	.070	.000	1282.10	9805.83
.002176	620.	590.	350.	2	8	0	.00	3364.75	13170.58

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SECNO	DEPTH	CWSEL	CRISW	WSELK	EG	HV	HL	OLOSS	L-BANK ELEV
Q	QLOB	QCH	QROB	ALOB	ACH	AROB	VOL	TWA	R-BANK ELEV
TIME	VLOB	VCH	VROB	XNL	XNCH	XNR	WTN	ELMIN	SSTA
SLOPE	XLOBL	XLCH	XLOBR	ITRIAL	IDC	ICONT	CORAR	TOPWID	ENDST

FLOW DISTRIBUTION FOR SECNO= 26.94 CWSEL= 1290.17

STA=	9806.	9819.	9944.	10174.	10203.	10597.	10687.	10979.	11028.	12153.	13042.	13168.	13171.
PER Q=	.2	11.7	54.8	2.0	13.8	1.8	6.2	1.1	6.2	2.1	.1	.1	.0
AREA=	30.8	796.6	1856.7	170.3	1525.9	245.0	838.8	143.2	1431.9	687.0	53.3	.5	.5
VEL=	2.0	4.0	8.0	3.2	2.4	1.9	2.0	2.0	1.2	.8	.6	.3	.3
DEPTH=	2.3	6.4	8.1	5.9	3.9	2.7	2.9	2.9	1.3	.8	.4	.2	.2

\*SECNO 27.030

27.030	10.01	1291.21	1289.08	.00	1292.01	.80	1.19	.07	1287.20
27000.0	11337.4	10646.8	5015.8	1836.8	1136.2	2019.4	25540.2	6567.8	1286.20
6.96	6.17	9.37	2.48	.060	.035	.070	.000	1281.20	9703.74
.003492	490.	460.	340.	2	5	0	.00	2165.38	11869.11

FLOW DISTRIBUTION FOR SECNO= 27.03 CWSEL= 1291.21

STA=	9704.	9723.	9814.	9900.	9922.	10079.	10450.	10553.	10732.	10749.	11081.	11869.
PER Q=	1.0	19.2	19.2	2.5	39.4	15.0	.8	2.3	.2	.1	.1	.1
AREA=	77.2	820.0	800.8	138.8	1136.2	1358.3	145.4	333.2	29.1	70.2	83.3	.3
VEL=	3.5	6.3	6.5	4.9	9.4	3.0	1.6	1.9	1.8	.4	.3	.3
DEPTH=	4.0	9.0	9.3	6.3	7.2	3.7	1.4	1.9	1.7	.2	.1	.1

\*SECNO 27.110

3301 HV CHANGED MORE THAN HVINS

27.110	9.00	1292.70	1289.58	.00	1292.94	.24	.87	.06	1288.00
27000.0	20045.2	5734.7	1220.1	5595.9	1089.4	1206.8	25588.1	6586.5	1291.30
6.99	3.58	5.26	1.01	.060	.035	.070	.000	1283.70	8827.30
.002059	280.	420.	360.	2	14	0	.00	2599.07	11426.37

FLOW DISTRIBUTION FOR SECNO= 27.11 CWSEL= 1292.70

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SECNO	DEPTH	CWSEL	CRISW	WSELK	EG	HV	HL	OLOSS	L-BANK ELEV				
Q	QLOB	QCH	QROB	ALOB	ACH	AROB	VOL	TWA	R-BANK ELEV				
TIME	VLOB	VCH	VROB	XNL	XNCH	XNR	WTN	ELMIN	SSTA				
SLOPE	XLOBL	XLCH	XLOBR	ITRIAL	IDC	ICONT	CORAR	TOPWID	ENDST				
STA=	8827.	9000.	9045.	9071.	9124.	9203.	9376.	9435.	9548.	9601.	9650.	9709.	9764.
PER Q=	5.9	5.6	3.2	5.9	9.7	4.7	3.6	9.4	4.7	3.1	6.7	4.7	
AREA=	610.7	346.5	198.9	378.9	600.3	522.2	296.7	683.6	331.2	248.1	427.7	335.5	
VEL=	2.6	4.4	4.3	4.2	4.3	2.4	3.3	3.7	3.8	3.3	4.2	3.7	
DEPTH=	3.5	7.7	7.6	7.1	7.6	3.0	5.0	6.0	6.2	5.1	7.2	6.1	
STA=	9764.	9895.	10136.	11244.	11426.								
PER Q=	7.2	21.2	4.5	.0									
AREA=	615.6	1089.4	1179.5	27.3									
VEL=	3.2	5.3	1.0	.3									
DEPTH=	4.7	4.5	1.1	.1									
*SECNO 27.190													
27.190	7.80	1293.80	1291.59	.00	1294.12	.32	1.16	.02	1288.20				
27000.0	17007.7	9987.8	4.5	5581.4	1588.4	20.5	25683.1	6613.7	1293.60				
7.02	3.05	6.29	.22	.060	.035	.070	.000	1286.00	8158.08				
.002216	600.	420.	360.	2	14	0	.00	2092.48	10250.56				

FLOW DISTRIBUTION FOR SECNO= 27.19 CWSEL= 1293.80

SECNO	DEPTH	CWSEL	CRISW	WSELK	EG	HV	HL	OLOSS	L-BANK ELEV				
Q	QLOB	QCH	QROB	ALOB	ACH	AROB	VOL	TWA	R-BANK ELEV				
TIME	VLOB	VCH	VROB	XNL	XNCH	XNR	WTN	ELMIN	SSTA				
SLOPE	XLOBL	XLCH	XLOBR	ITRIAL	IDC	ICONT	CORAR	TOPWID	ENDST				
STA=	8158.	8411.	8531.	8627.	8712.	8771.	9084.	9165.	9274.	9357.	9734.	9765.	10049.
PER Q=	3.1	11.3	7.9	7.9	3.7	4.0	6.7	4.4	3.6	8.7	1.6	37.0	
AREA=	451.5	762.4	561.9	535.8	295.2	601.4	470.1	414.8	332.5	1016.0	139.6	1588.4	
VEL=	1.9	4.0	3.8	4.0	3.4	1.8	3.8	2.9	2.9	2.3	3.2	6.3	
DEPTH=	1.8	6.4	5.9	6.3	5.0	1.9	5.8	3.8	4.0	2.7	4.5	5.6	
STA=	10049.	10251.											
PER Q=	.0												
AREA=	20.5												
VEL=	.2												
DEPTH=	.1												
*SECNO 27.300													
27.300	6.16	1295.36	1294.12	.00	1295.74	.38	1.60	.02	1292.20				
27000.0	16479.5	10520.5	.0	5736.6	1498.0	.0	25790.8	6646.7	1296.10				
7.06	2.87	7.02	.00	.060	.035	.000	.000	1289.20	7740.50				
.002870	670.	580.	470.	2	14	0	.00	2337.77	10078.27				

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SECNO	DEPTH	CWSEL	CRISW	WSELK	EG	HV	HL	OLOSS	L-BANK ELEV				
Q	QLOB	QCH	QROB	ALOB	ACH	AROB	VOL	TWA	R-BANK ELEV				
TIME	VLOB	VCH	VROB	XNL	XNCH	XNR	WTN	ELMIN	SSTA				
SLOPE	XLOBL	XLCH	XLOBR	ITRIAL	IDC	ICONT	CORAR	TOPWID	ENDST				
FLOW DISTRIBUTION FOR SECNO=	27.30												
STA=	7741.	7925.	7979.	8050.	8258.	8477.	8614.	8873.	8939.	9195.	9395.	9632.	9803.
PER Q=	4.3	3.9	3.1	9.9	7.4	7.8	3.9	4.6	4.0	3.1	3.1	5.8	
AREA=	421.1	270.5	263.3	793.9	694.8	597.2	507.4	317.2	499.8	401.8	428.8	540.7	
VEL=	2.8	3.9	3.2	3.4	2.9	3.5	2.1	3.9	2.2	2.1	2.0	2.9	
DEPTH=	2.3	5.0	3.7	3.8	3.2	4.4	2.0	4.8	2.0	2.0	1.8	3.2	
STA=	9803.	10081.											
PER Q=	39.0												
AREA=	1498.0												
VEL=	7.0												
DEPTH=	5.4												
*SECNO 27.390													
27.390	6.72	1297.02	1295.62	.00	1297.41	.39	1.67	.00	1290.30				
27000.0	18166.3	8552.7	281.0	5978.1	1119.1	96.8	25898.2	6685.4	1290.80				
7.10	3.04	7.64	2.90	.055	.035	.055	.000	1290.30	7398.65				
.002606	690.	470.	470.	2	11	0	.00	2701.47	10100.12				

FLOW DISTRIBUTION FOR SECNO= 27.39 CWSEL= 1297.02

SECNO	DEPTH	CWSEL	CRISW	WSELK	EG	HV	HL	OLOSS	L-BANK ELEV				
Q	QLOB	QCH	QROB	ALOB	ACH	AROB	VOL	TWA	R-BANK ELEV				
TIME	VLOB	VCH	VROB	XNL	XNCH	XNR	WTN	ELMIN	SSTA				
SLOPE	XLOBL	XLCH	XLOBR	ITRIAL	IDC	ICONT	CORAR	TOPWID	ENDST				
STA=	7399.	7479.	7777.	7946.	8028.	8208.	8404.	8656.	8865.	8947.	9808.	9900.	10069.
PER Q=	3.1	3.6	11.3	3.0	6.1	5.9	4.5	4.9	4.2	10.3	10.4	31.7	
AREA=	237.4	481.7	776.6	268.5	524.5	554.7	472.0	522.7	324.8	1227.6	587.7	1119.1	
VEL=	3.6	2.0	3.9	3.0	3.1	2.8	2.6	2.5	3.5	2.3	4.8	7.6	
DEPTH=	3.0	1.6	4.6	3.3	2.9	2.8	1.9	2.5	4.0	1.4	6.4	6.6	
STA=	10069.	10100.											
PER Q=	1.0												
AREA=	96.8												



7.23 3.69 8.30 3.81 .055 .035 .055 .000 1297.40 7526.74  
.004253 480. 490. 500. 2 14 0 .00 2082.98 10104.59

FLOW DISTRIBUTION FOR SECNO= 27.77 CWSEL= 1304.47

STA= 7527. 8601. 8671. 8733. 8890. 9025. 9261. 9378. 9481. 9692. 9810. 9836. 10090.  
PER Q= 4.5 5.4 5.1 9.1 7.5 3.8 8.6 3.8 4.3 6.1 .5 40.6  
AREA= 607.2 309.1 283.0 583.3 488.0 369.6 499.0 290.0 402.8 408.9 51.1 1318.9  
VEL= 2.0 4.7 4.8 4.2 4.2 2.8 4.6 3.5 2.9 4.0 2.8 8.3  
DEPTH= .6 4.4 4.6 3.7 3.6 1.6 4.3 2.8 1.9 3.5 2.0 5.2

STA= 10090. 10105.  
PER Q= .7  
AREA= 51.5  
VEL= 3.8  
DEPTH= 3.5

\*SECNO 27.860

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SECNO	DEPTH	CWSEL	CRISW	WSELK	EG	HV	HL	OLOSS	L-BANK ELEV
Q	QLOB	QCH	QROB	ALOB	ACH	AROB	VOL	TWA	R-BANK ELEV
TIME	VLOB	VCH	VROB	XNL	XNCH	XNR	WTN	ELMIN	SSTA
SLOPE	XLOBL	XLCH	XLOBR	ITRIAL	IDC	ICONT	CORAR	TOPWID	ENDST

3265 DIVIDED FLOW

27.860 8.55 1306.05 1304.91 .00 1306.55 .50 1.51 .01 1302.60  
25000.0 10924.9 13459.4 615.7 4177.5 1843.6 191.7 26312.7 6840.3 1297.50  
7.25 2.62 7.30 3.21 .055 .035 .055 .000 1297.50 7589.71  
.002430 475. 475. 475. 2 8 0 .00 2169.40 10130.63

FLOW DISTRIBUTION FOR SECNO= 27.86 CWSEL= 1306.05

STA= 7590. 8643. 8831. 8992. 9044. 9253. 9557. 9774. 10057. 10131.  
PER Q= 8.9 3.7 4.1 3.1 10.8 6.7 6.4 53.8 2.5  
AREA= 1043.8 413.8 361.1 221.1 815.3 714.7 607.8 1843.6 191.7  
VEL= 2.1 2.3 2.8 3.5 3.3 2.4 2.6 7.3 3.2  
DEPTH= 1.0 2.2 2.2 4.3 3.9 2.4 2.8 6.5 2.6

\*SECNO 27.940

3265 DIVIDED FLOW

3302 WARNING: CONVEYANCE CHANGE OUTSIDE OF ACCEPTABLE RANGE, KRATIO = .70

27.940 8.34 1307.44 1306.56 .00 1308.00 .56 1.44 .02 1304.10  
25000.0 15475.9 9430.6 93.5 3890.8 1132.0 31.8 26367.3 6859.9 1303.50  
7.27 3.98 8.33 2.94 .055 .035 .055 .000 1299.10 7877.74  
.004963 415. 440. 440. 2 10 0 .00 1900.05 10203.16

FLOW DISTRIBUTION FOR SECNO= 27.94 CWSEL= 1307.44

STA= 7878. 8729. 8806. 9018. 9260. 9374. 9657. 9944. 10187. 10203.  
PER Q= 3.6 3.8 3.2 3.8 11.4 19.7 16.3 37.7 .4  
AREA= 449.4 238.1 322.6 333.1 521.5 1066.9 959.2 1132.0 31.8  
VEL= 2.0 4.0 2.5 2.8 5.5 4.6 4.3 8.3 2.9  
DEPTH= .5 3.1 1.5 1.4 4.6 3.8 3.3 4.7 2.0

\*SECNO 28.040

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SECNO	DEPTH	CWSEL	CRISW	WSELK	EG	HV	HL	OLOSS	L-BANK ELEV
Q	QLOB	QCH	QROB	ALOB	ACH	AROB	VOL	TWA	R-BANK ELEV
TIME	VLOB	VCH	VROB	XNL	XNCH	XNR	WTN	ELMIN	SSTA
SLOPE	XLOBL	XLCH	XLOBR	ITRIAL	IDC	ICONT	CORAR	TOPWID	ENDST

3265 DIVIDED FLOW

3302 WARNING: CONVEYANCE CHANGE OUTSIDE OF ACCEPTABLE RANGE, KRATIO = 1.43

28.040 5.91 1309.51 1307.67 .00 1309.80 .29 1.77 .03 1304.60  
25000.0 9712.0 7864.8 7423.2 3187.0 1274.9 2406.6 26439.8 6885.9 1307.50  
7.31 3.05 6.17 3.08 .055 .035 .055 .000 1303.60 8283.72  
.002432 550. 500. 500. 2 11 0 .00 2344.96 10854.48

FLOW DISTRIBUTION FOR SECNO= 28.04 CWSEL= 1309.51

STA= 8284. 9028. 9235. 9579. 9809. 10061. 10352. 10537. 10605. 10675. 10825. 10854.  
PER Q= 7.6 4.6 6.8 19.8 31.5 4.8 11.3 4.9 4.9 3.7 .1  
AREA= 809.2 488.6 667.9 1221.3 1274.9 557.0 797.4 323.7 329.7 376.5 22.3

VEL=	2.4	2.4	2.5	4.1	6.2	2.2	3.5	3.8	3.7	2.5	1.1
DEPTH=	1.1	2.4	1.9	5.3	5.1	1.9	4.3	4.8	4.7	2.5	.8

\*SECNO 28.120

3265 DIVIDED FLOW

28.120	6.09	1310.69	1309.88	.00	1311.39	.70	1.46	.12	1304.90
25000.0	9689.4	9733.5	5577.1	2319.5	1021.5	1519.5	26500.2	6907.8	1304.60
7.33	4.18	9.53	3.67	.055	.035	.055	.000	1304.60	8712.61
.004611	440.	450.	460.	2	11	0	.00	1908.06	10913.64

FLOW DISTRIBUTION FOR SECNO= 28.12 CWSEL= 1310.69

STA=	8713.	9182.	9411.	9675.	9906.	10076.	10527.	10680.	10781.	10914.
PER Q=	3.1	3.1	8.3	24.3	38.9	4.9	10.8	4.0	2.6	
AREA=	254.3	327.9	595.8	1141.5	1021.5	413.0	595.4	276.9	234.2	
VEL=	3.0	2.3	3.5	5.3	9.5	3.0	4.5	3.6	2.8	
DEPTH=	.5	1.4	2.3	4.9	6.0	.9	3.9	2.7	1.8	

\*SECNO 28.210

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SECNO	DEPTH	CWSEL	CRISWS	WSELK	EG	HV	HL	OLOSS	L-BANK ELEV
Q	QLOB	QCH	QROB	ALOB	ACH	AROB	VOL	TWA	R-BANK ELEV
TIME	VLOB	VCH	VROB	XNL	XNCH	XNR	WTN	ELMIN	SSTA
SLOPE	XLOBL	XLCH	XLOBR	ITRIAL	IDC	ICONT	CORAR	TOPWID	ENDST

3265 DIVIDED FLOW

3470 ENCROACHMENT STATIONS=	9180.0	12000.0	TYPE=	1	TARGET=	2820.000
28.210	7.96	1312.36	1310.77	.00	1312.95	.58
25000.0	4131.2	14508.0	6360.8	1435.2	1906.9	2008.4
7.35	2.88	7.61	3.17	.055	.035	.055
.002381	480.	480.	480.	1	8	0

FLOW DISTRIBUTION FOR SECNO= 28.21 CWSEL= 1312.36

STA=	9247.	9367.	9409.	9475.	9578.	9798.	10069.	10105.	10430.	10565.	10866.	10889.
PER Q=	.5	.2	.8	3.0	12.0	58.0	1.9	.4	4.2	18.5	.4	
AREA=	100.1	44.9	110.1	285.1	895.0	1906.9	144.3	109.5	394.0	1314.8	45.8	
VEL=	1.2	1.4	1.9	2.6	3.4	7.6	3.3	.9	2.7	3.5	2.1	
DEPTH=	.8	1.1	1.7	2.8	4.1	7.0	4.0	.3	2.9	4.4	2.0	

\*SECNO 28.310

28.310	7.73	1313.63	1312.55	.00	1314.34	.70	1.36	.04	1307.70
25000.0	7248.0	11746.2	6005.8	1631.8	1314.6	1999.6	26613.5	6943.0	1307.30
7.38	4.44	8.94	3.00	.055	.035	.055	.000	1305.90	9561.35
.003336	465.	490.	490.	2	12	0	.00	1448.44	11009.78

FLOW DISTRIBUTION FOR SECNO= 28.31 CWSEL= 1313.63

STA=	9561.	9598.	9798.	9935.	10124.	10196.	10523.	10862.	10975.	11010.
PER Q=	.2	12.2	16.6	47.0	3.7	2.1	12.3	5.6	.3	
AREA=	35.3	784.9	811.6	1314.6	253.8	335.0	974.4	392.6	43.9	
VEL=	1.5	3.9	5.1	8.9	3.6	1.6	3.2	3.6	1.8	
DEPTH=	1.0	3.9	5.9	7.0	3.5	1.0	2.9	3.5	1.3	

\*SECNO 28.390

3470 ENCROACHMENT STATIONS=	9750.0	13160.0	TYPE=	1	TARGET=	3410.000
28.390	8.33	1315.03	1313.50	.00	1315.62	.59
25000.0	1160.1	11777.8	12062.1	333.2	1425.4	3696.1
7.40	3.48	8.26	3.26	.055	.035	.055
.002652	400.	435.	435.	2	11	0

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SECNO	DEPTH	CWSEL	CRISWS	WSELK	EG	HV	HL	OLOSS	L-BANK ELEV
Q	QLOB	QCH	QROB	ALOB	ACH	AROB	VOL	TWA	R-BANK ELEV
TIME	VLOB	VCH	VROB	XNL	XNCH	XNR	WTN	ELMIN	SSTA
SLOPE	XLOBL	XLCH	XLOBR	ITRIAL	IDC	ICONT	CORAR	TOPWID	ENDST

FLOW DISTRIBUTION FOR SECNO= 28.39 CWSEL= 1315.03

STA=	9780.	9880.	10074.	10197.	10356.	10728.	10810.	10996.	11151.	11493.	11506.
PER Q=	4.6	47.1	14.5	10.3	4.1	4.0	9.1	3.2	3.2	.0	
AREA=	333.2	1425.4	766.9	683.6	474.0	302.2	685.5	331.9	447.7	4.3	
VEL=	3.5	8.3	4.7	3.7	2.2	3.3	3.3	2.4	1.8	.6	
DEPTH=	3.3	7.3	6.2	4.3	1.3	3.7	3.7	2.1	1.3	.3	

\*SECNO 28.450

3470 ENCROACHMENT STATIONS= 9475.0 11299.0 TYPE= 1 TARGET= 1824.000  
 28.450 9.24 1315.94 1314.89 .00 1317.02 1.09 1.25 .15 1315.60  
 25000.0 .0 16631.5 8368.5 .0 1686.3 2112.6 26707.8 6972.9 1311.00  
 7.41 .02 9.86 3.96 .055 .035 .055 .000 1306.70 9955.73  
 .004314 270. 320. 460. 2 5 0 .00 1147.67 11083.40

FLOW DISTRIBUTION FOR SECNO= 28.45 CWSEL= 1315.94

STA= 9936. 10186. 10238. 10365. 10688. 10736. 10936. 10998. 11083.  
 PER Q= 66.5 7.2 7.8 2.1 2.1 13.1 1.2 .1  
 AREA= 1686.3 308.8 462.2 303.3 143.5 757.8 114.0 23.0  
 VEL= 9.9 5.8 4.2 1.7 3.7 4.3 2.7 .7  
 DEPTH= 6.7 5.9 3.6 .9 3.0 3.8 1.8 .3

\*SECNO 28.520

3470 ENCROACHMENT STATIONS= 9720.0 11012.0 TYPE= 1 TARGET= 1292.000  
 28.520 10.33 1317.43 1315.63 .00 1318.30 .87 1.25 .02 1307.70  
 25000.0 194.8 16274.1 8531.0 53.9 1832.5 2374.3 26741.1 6981.9 1311.00  
 7.42 3.62 8.88 3.59 .055 .035 .055 .000 1307.10 9955.87  
 .002863 360. 360. 360. 2 8 0 .00 1043.43 10999.30

FLOW DISTRIBUTION FOR SECNO= 28.52 CWSEL= 1317.43

STA= 9956. 9967. 10204. 10300. 10377. 10695. 10733. 10869. 10971. 10999.  
 PER Q= .8 65.1 14.7 5.2 3.2 1.7 5.7 3.2 .5  
 AREA= 53.9 1832.5 684.9 337.6 440.1 130.5 446.6 278.9 55.7  
 VEL= 3.6 8.9 5.4 3.9 1.8 3.3 3.2 2.8 2.3  
 DEPTH= 4.8 7.7 7.1 4.4 1.4 3.4 3.3 2.7 2.0

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SECNO	DEPTH	CWSEL	CRISW	WSELK	EG	HV	HL	OLOSS	L-BANK ELEV
Q	QLOB	QCH	QROB	ALOB	ACH	AROB	VOL	TWA	R-BANK ELEV
TIME	VLOB	VCH	VROB	XNL	XNCH	XNR	WTN	ELMIN	SSTA
SLOPE	XLOBL	XLCH	XLOBR	ITRIAL	IDC	ICONT	CORAR	TOPWID	ENDST

\*SECNO 28.580

3470 ENCROACHMENT STATIONS= 9850.0 11141.0 TYPE= 1 TARGET= 1291.000  
 28.580 9.32 1318.32 1316.36 .00 1319.21 .89 .91 1309.10  
 25000.0 43.4 20567.5 4389.1 20.0 2495.2 1737.6 26774.3 6990.5 1310.90  
 7.44 2.17 8.24 2.53 .055 .035 .055 .000 1309.00 9953.92  
 .002489 340. 340. 340. 2 16 0 .00 1144.81 11098.73

FLOW DISTRIBUTION FOR SECNO= 28.58 CWSEL= 1318.32

STA= 9954. 9959. 10284. 10393. 10497. 10806. 10850. 11038. 11099.  
 PER Q= .2 82.3 6.0 .1 6.5 1.6 3.0 .4  
 AREA= 20.0 2495.2 438.5 33.6 702.2 137.4 361.5 64.5  
 VEL= 2.2 8.2 3.4 .6 2.3 2.9 2.1 1.4  
 DEPTH= 3.9 7.7 4.0 .3 2.3 3.1 1.9 1.1

\*SECNO 28.670

3265 DIVIDED FLOW

3470 ENCROACHMENT STATIONS= 9450.0 11203.0 TYPE= 1 TARGET= 1753.000  
 28.670 8.01 1319.51 1318.69 .00 1320.62 1.11 1.34 .07 1311.50  
 25000.0 208.0 16841.0 7951.0 54.1 1678.8 2398.5 26813.8 7000.8 1312.20  
 7.45 3.85 10.03 3.32 .055 .035 .055 .000 1311.50 9950.49  
 .003897 470. 460. 360. 2 16 0 .00 1186.25 11173.23

FLOW DISTRIBUTION FOR SECNO= 28.67 CWSEL= 1319.51

STA= 9950. 9964. 10192. 10502. 10819. 10989. 11044. 11173.  
 PER Q= .8 67.4 18.1 4.6 4.1 1.8 3.1  
 AREA= 54.1 1678.8 1131.3 478.6 366.8 143.4 278.3  
 VEL= 3.8 10.0 4.0 2.4 2.8 3.2 2.8  
 DEPTH= 4.0 7.4 3.7 1.5 2.2 2.6 2.2

\*SECNO 28.760

3265 DIVIDED FLOW

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SECNO	DEPTH	CWSEL	CRISW	WSELK	EG	HV	HL	OLOSS	L-BANK ELEV
Q	QLOB	QCH	QROB	ALOB	ACH	AROB	VOL	TWA	R-BANK ELEV
TIME	VLOB	VCH	VROB	XNL	XNCH	XNR	WTN	ELMIN	SSTA
SLOPE	XLOBL	XLCH	XLOBR	ITRIAL	IDC	ICONT	CORAR	TOPWID	ENDST

28.760 8.56 1321.06 1320.26 .00 1322.34 1.28 1.67 .05 1321.20  
 25000.0 .0 20938.6 4061.4 .0 2126.3 1631.0 26849.7 7010.5 1317.40

7.47 .00 9.85 2.49 .000 .035 .055 .000 1312.50 9920.06  
.003751 500. 475. 320. 2 8 0 .00 1215.71 11322.31

FLOW DISTRIBUTION FOR SECNO= 28.76 CWSEL= 1321.06

STA= 9920. 10203. 10535. 10699. 11016. 11220. 11274. 11322.  
PER Q= 83.8 6.0 1.9 4.0 .7 2.9 .8  
AREA= 2126.3 607.9 215.5 469.4 67.1 189.8 81.3  
VEL= 9.8 2.5 2.2 2.2 2.5 3.8 2.3  
DEPTH= 7.5 1.8 1.3 1.5 .3 3.5 1.7

\*SECNO 28.860

3265 DIVIDED FLOW

3470 ENCROACHMENT STATIONS= 9575.0 12130.0 TYPE= 1 TARGET= 2555.000  
28.860 9.92 1323.02 1322.76 .00 1324.30 1.28 1.96 .00 1322.70  
25000.0 .0 18409.5 6590.5 .1 1773.2 2015.3 26885.7 7021.7 1321.30  
7.48 .02 10.38 3.27 .055 .035 .055 .000 1313.10 9911.52  
.004624 550. 515. 310. 2 8 0 .00 1559.51 11800.58

FLOW DISTRIBUTION FOR SECNO= 28.86 CWSEL= 1323.02

STA= 9912. 10169. 10243. 10485. 10549. 10805. 10915. 11285. 11472. 11649. 11801.  
PER Q= 73.6 3.4 16.3 1.2 1.2 .4 .0 1.7 1.9 .2  
AREA= 1773.2 223.8 913.3 113.5 198.2 67.2 8.6 210.2 225.5 54.9  
VEL= 10.4 3.8 4.5 2.7 1.5 1.3 .7 2.0 2.2 .9  
DEPTH= 6.9 3.0 3.8 1.8 .8 .6 .0 1.1 1.3 .4

\*SECNO 28.950

3265 DIVIDED FLOW

28.950 13.01 1325.31 1324.34 .00 1326.09 .78 1.74 .05 1325.00  
25000.0 .0 18621.8 6378.2 .1 2321.5 2162.0 26922.9 7035.3 1324.50  
7.50 .02 8.02 2.95 .055 .035 .055 .000 1312.30 9945.50  
.003542 500. 475. 310. 3 9 0 .00 1907.72 12055.97

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SECNO	DEPTH	CWSEL	CRWS	WSELK	EG	HV	HL	OLOSS	L-BANK ELEV
Q	QLOB	QCH	QROB	ALOB	ACH	AROB	VOL	TWA	R-BANK ELEV
TIME	VLOB	VCH	VROB	XNL	XNCH	XNR	WTN	ELMIN	SSTA
SLOPE	XLOBL	XLCH	XLOBR	ITRIAL	IDC	ICONT	CORAR	TOPWID	ENDST

FLOW DISTRIBUTION FOR SECNO= 28.95 CWSEL= 1325.31

STA= 9946. 10353. 10551. 10659. 11069. 11727. 12056.  
PER Q= 74.5 7.2 9.9 3.2 3.1 2.3  
AREA= 2321.5 556.2 530.4 344.9 388.1 342.4  
VEL= 8.0 3.2 4.6 2.3 2.0 1.7  
DEPTH= 5.7 2.8 4.9 .8 .6 1.0

\*SECNO 29.040

29.040 9.62 1326.82 1324.72 .00 1327.28 .46 1.15 .03 1317.30  
25000.0 529.1 16828.1 7642.8 127.5 2648.6 3024.4 26972.5 7051.7 1324.30  
7.52 4.15 6.35 2.53 .055 .035 .055 .000 1317.20 9807.87  
.001871 550. 510. 330. 2 11 0 .00 1968.62 11776.49

FLOW DISTRIBUTION FOR SECNO= 29.04 CWSEL= 1326.82

STA= 9808. 9828. 10239. 10414. 10499. 10584. 11444. 11750. 11776.  
PER Q= 2.1 67.3 3.7 4.0 9.0 4.0 9.4 .3  
AREA= 127.5 2648.6 431.9 341.5 554.0 699.8 947.8 49.2  
VEL= 4.2 6.4 2.1 3.0 4.1 1.4 2.5 1.8  
DEPTH= 6.3 6.4 2.5 4.0 6.5 .8 3.1 1.9

\*SECNO 29.140

29.140 8.42 1327.82 1326.25 .00 1328.24 .42 .96 .00 1325.30  
23000.0 3298.3 13988.0 5713.7 984.0 2249.7 2170.4 27028.0 7069.2 1325.60  
7.55 3.35 6.22 2.63 .055 .035 .055 .000 1319.40 9590.64  
.002336 560. 500. 340. 2 14 0 .00 1937.73 11528.37

FLOW DISTRIBUTION FOR SECNO= 29.14 CWSEL= 1327.82

STA= 9591. 9646. 9701. 9873. 10299. 10448. 10494. 11232. 11515. 11528.  
PER Q= 6.6 3.8 4.0 60.8 9.0 3.6 3.3 8.8 .2  
AREA= 338.8 245.9 399.2 2249.7 614.0 217.1 531.7 784.1 23.5  
VEL= 4.5 3.5 2.3 6.2 3.4 3.8 1.4 2.6 1.9  
DEPTH= 6.1 4.5 2.3 5.3 4.1 4.7 .7 2.8 1.8

\*SECNO 29.230

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SECNO	DEPTH	CWSEL	CRISW	WSELK	EG	HV	HL	OLOSS	L-BANK ELEV
Q	QLOB	QCH	QROB	ALOB	ACH	AROB	VOL	TWA	R-BANK ELEV
TIME	VLOB	VCH	VROB	XNL	XNCH	XNR	WTN	ELMIN	SSTA
SLOPE	XLOBL	XLCH	XLOBR	ITRIAL	IDC	ICONT	CORAR	TOPWID	ENDST

3265 DIVIDED FLOW

29.230	7.55	1328.95	1327.13	.00	1329.40	.45	1.16	.01	1328.30
23000.0	5997.3	14052.9	2949.8	1595.4	2215.1	1164.9	27081.4	7085.5	1327.00
7.58	3.76	6.34	2.53	.055	.035	.055	.000	1321.40	9516.80
.002701	515.	475.	360.	2	19	0	.00	1436.82	11268.27

FLOW DISTRIBUTION FOR SECNO= 29.23 CWSEL= 1328.95

STA=	9517.	9535.	9679.	9898.	10352.	10401.	10442.	10865.	10966.	11130.	11194.	11253.	11268.
PER Q=	.4	14.6	11.1	61.1	1.3	.5	.2	2.2	2.4	1.2	4.5	.4	
AREA=	39.6	777.9	777.9	2215.1	120.2	60.6	51.6	217.4	279.2	128.1	268.6	39.3	
VEL=	2.3	4.3	3.3	6.3	2.6	1.8	.9	2.3	2.0	2.2	3.9	2.5	
DEPTH=	2.2	5.4	3.6	4.9	2.5	1.5	.1	2.2	1.7	2.0	4.6	2.6	

\*SECNO 29.300

3265 DIVIDED FLOW

3301 HV CHANGED MORE THAN HVINS

3302 WARNING: CONVEYANCE CHANGE OUTSIDE OF ACCEPTABLE RANGE, KRATIO = .59

29.300	7.98	1330.28	1329.90	.00	1331.27	1.00	1.71	.16	1326.50
23000.0	4049.2	16330.2	2620.5	893.5	1798.2	622.5	27118.9	7097.3	1330.90
7.59	4.53	9.08	4.21	.055	.035	.055	.000	1322.30	9547.80
.007853	410.	400.	360.	3	5	0	.00	1216.80	10993.57

FLOW DISTRIBUTION FOR SECNO= 29.30 CWSEL= 1330.28

STA=	9548.	9549.	9683.	9786.	9919.	10440.	10578.	10677.	10885.	10907.	10987.	10994.
PER Q=	.0	4.9	2.2	10.5	71.0	1.3	1.2	.3	1.2	7.3	.1	
AREA=	2.5	284.9	157.2	449.0	1798.2	116.7	107.7	32.8	61.1	294.1	10.1	
VEL=	1.7	4.0	3.2	5.4	9.1	2.5	2.5	1.8	4.7	5.7	3.0	
DEPTH=	2.1	2.1	1.5	3.4	3.8	.8	1.1	.2	2.8	3.7	1.5	

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SECNO	DEPTH	CWSEL	CRISW	WSELK	EG	HV	HL	OLOSS	L-BANK ELEV
Q	QLOB	QCH	QROB	ALOB	ACH	AROB	VOL	TWA	R-BANK ELEV
TIME	VLOB	VCH	VROB	XNL	XNCH	XNR	WTN	ELMIN	SSTA
SLOPE	XLOBL	XLCH	XLOBR	ITRIAL	IDC	ICONT	CORAR	TOPWID	ENDST

\*SECNO 29.390

3302 WARNING: CONVEYANCE CHANGE OUTSIDE OF ACCEPTABLE RANGE, KRATIO = 1.88

29.390	7.88	1332.48	1330.44	.00	1332.98	.50	1.66	.05	1331.40
23000.0	1501.4	18698.1	2800.5	528.0	3027.7	1027.5	27158.2	7109.0	1329.30
7.61	2.84	6.18	2.73	.055	.035	.055	.000	1324.60	9489.31
.002232	440.	440.	410.	2	15	0	.00	1147.76	10637.07

FLOW DISTRIBUTION FOR SECNO= 29.39 CWSEL= 1332.48

STA=	9489.	9499.	9552.	9578.	9694.	10254.	10457.	10569.	10585.	10620.	10637.
PER Q=	.2	4.1	1.1	1.1	81.3	4.4	1.9	1.1	4.1	.6	
AREA=	23.4	258.4	86.5	159.6	3027.7	462.1	221.3	71.6	219.7	52.7	
VEL=	2.4	3.7	2.8	1.6	6.2	2.2	2.0	3.4	4.3	2.6	
DEPTH=	2.4	4.9	3.3	1.4	5.4	2.3	2.0	4.5	6.3	3.1	

\*SECNO 29.470

29.470	9.28	1333.38	1331.59	.00	1334.10	.72	1.05	.06	1331.00
23000.0	2675.7	19147.5	1176.8	1090.1	2605.8	372.8	27201.4	7119.9	1333.00
7.63	2.45	7.35	3.16	.055	.035	.055	.000	1324.10	9307.34
.002565	445.	445.	385.	3	8	0	.00	1049.00	10356.34

FLOW DISTRIBUTION FOR SECNO= 29.47 CWSEL= 1333.38

STA=	9307.	9314.	9387.	9438.	9618.	9798.	10210.	10263.	10289.	10342.	10356.
PER Q=	.1	3.3	2.4	3.1	2.8	83.2	.1	.7	3.9	.4	
AREA=	7.9	246.6	177.4	338.1	320.1	2605.8	33.3	63.1	240.0	36.4	
VEL=	1.5	3.1	3.1	2.1	2.0	7.3	1.0	2.5	3.7	2.4	
DEPTH=	1.2	3.4	3.5	1.9	1.8	6.3	.6	2.4	4.5	2.5	

\*SECNO 29.540

3301 HV CHANGED MORE THAN HVINS

29.540	7.49	1334.19	1333.18	.00	1335.51	1.32	1.23	.18	1332.20
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23000.0	3469.2	19530.8	.0	1083.0	1968.4	.0	27232.5	7128.5	1340.70
7.64	3.20	9.92	.00	.055	.035	.000	.000	1326.70	9212.90
.004250	380.	380.	380.	2	15	0	.00	921.29	10134.19

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SECNO	DEPTH	CWSEL	CRISW	WSELK	EG	HV	HL	OLOSS	L-BANK ELEV
Q	QLOB	QCH	QROB	ALOB	ACH	AROB	VOL	TWA	R-BANK ELEV
TIME	VLOB	VCH	VROB	XNL	XNCH	XNR	WTN	ELMIN	SSTA
SLOPE	XLOBL	XLCH	XLOBR	ITRIAL	IDC	ICONT	CORAR	TOPWID	ENDST

FLOW DISTRIBUTION FOR SECNO= 29.54 CWSEL= 1334.19

STA=	9213.	9217.	9321.	9460.	9697.	9726.	9758.	9782.	9846.	10150.
PER Q=	.0	1.1	.3	4.1	2.5	4.4	1.5	1.1	84.9	
AREA=	3.7	129.0	68.2	388.8	123.0	180.5	85.0	105.0	1968.4	
VEL=	1.5	2.0	1.1	2.4	4.6	5.6	4.0	2.4	9.9	
DEPTH=	.9	1.2	.5	1.6	4.2	5.6	3.5	1.6	6.8	

\*SECNO 29.611

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\*\*\*\*\* BEARDSLEY CANAL FLUME \*  
\*\*\*\*\* LOW CHORD = 1347.0 \*\*\*  
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29.611	7.12	1336.02	1335.65	.00	1337.47	1.45	1.92	.04	1334.00
23000.0	5152.7	17716.2	131.1	1213.4	1648.2	35.7	27256.5	7135.1	1331.60
7.65	4.25	10.75	3.67	.055	.035	.055	.000	1328.90	9302.95
.006718	315.	375.	315.	2	11	0	.00	807.19	10110.13

FLOW DISTRIBUTION FOR SECNO= 29.61 CWSEL= 1336.02

STA=	9303.	9541.	9713.	9791.	10094.	10110.
PER Q=	6.2	12.6	3.6	77.0	.6	
AREA=	431.7	580.8	201.0	1648.2	35.7	
VEL=	3.3	5.0	4.2	10.7	3.7	
DEPTH=	1.8	3.4	2.6	5.4	2.2	

SPECIAL BRIDGE

SB	XK	XKOR	COFQ	RDLEN	BWC	BWP	BAREA	SS	ELCHU	ELCHD
1.35		1.60	2.60	.00	960.00	47.00	14933.00	5.50	1332.00	1332.00

\*SECNO 29.624

CLASS A LOW FLOW

3420 BRIDGE W.S.= 1335.94 BRIDGE VELOCITY= 6.25 CALCULATED CHANNEL AREA= 3679.

EGPRS	EGLWC	H3	QWEIR	QLOW	BAREA	TRAPEZOID AREA	ELLC	ELTRD	WEIRLN
.00	1337.82	.81	0.	23000.	14933.	14933.	1347.00	1353.60	0.

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SECNO	DEPTH	CWSEL	CRISW	WSELK	EG	HV	HL	OLOSS	L-BANK ELEV
Q	QLOB	QCH	QROB	ALOB	ACH	AROB	VOL	TWA	R-BANK ELEV
TIME	VLOB	VCH	VROB	XNL	XNCH	XNR	WTN	ELMIN	SSTA
SLOPE	XLOBL	XLCH	XLOBR	ITRIAL	IDC	ICONT	CORAR	TOPWID	ENDST

3495 OVERBANK AREA ASSUMED NON-EFFECTIVE, ELLEA= 1335.30 ELREA= 1348.10

29.624	8.33	1336.83	.00	.00	1337.82	.98	.35	.00	1335.30
23000.0	4803.8	18196.2	.0	1488.1	2071.8	.0	27261.7	7136.6	1348.10
7.66	3.23	8.78	.00	.055	.035	.000	.000	1328.50	9122.17
.003806	70.	70.	70.	0	0	0	.00	979.94	10102.12

FLOW DISTRIBUTION FOR SECNO= 29.62 CWSEL= 1336.83

STA=	9122.	9178.	9369.	9493.	9649.	9767.	10127.
PER Q=	.2	2.2	3.8	9.9	4.7	79.1	
AREA=	34.4	254.8	295.6	574.7	328.5	2071.8	
VEL=	1.2	2.0	3.0	4.0	3.3	8.8	
DEPTH=	.6	1.3	2.4	3.7	2.8	6.2	

\*SECNO 29.720

29.720	8.35	1338.85	1337.18	.00	1339.42	.57	1.56	.04	1336.50
23000.0	5414.6	17570.9	14.5	1966.8	2610.8	8.3	27306.2	7148.6	1335.70
7.68	2.75	6.73	1.74	.055	.040	.055	.000	1330.50	8963.76
.002761	450.	495.	495.	2	15	0	.00	1265.53	10229.29

FLOW DISTRIBUTION FOR SECNO= 29.72 CWSEL= 1338.85

STA=	8964.	9010.	9203.	9313.	9454.	9615.	9657.	9817.	10224.	10229.
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PER Q=	.3	1.5	1.1	3.9	5.4	2.6	8.8	76.4	.1
AREA=	45.2	222.7	148.9	346.0	443.3	168.2	592.6	2610.8	8.3
VEL=	1.4	1.6	1.7	2.6	2.8	3.6	3.4	6.7	1.7
DEPTH=	1.0	1.2	1.4	2.5	2.8	4.0	3.7	6.4	1.6

\*SECNO 29.800

3265 DIVIDED FLOW

29.800	12.28	1339.98	1335.53	.00	1340.33	.35	.89	.02	1338.90
23000.0	483.7	12930.8	9585.4	269.2	2414.7	2461.8	27357.6	7159.6	1337.60
7.71	1.80	5.36	3.89	.055	.040	.055	.000	1327.70	9416.55
.001428	460.	460.	460.	2	11	0	.00	833.44	10561.43

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SECNO	DEPTH	CWSEL	CRISW	WSELK	EG	HV	HL	OLOSS	L-BANK ELEV
Q	QLOB	QCH	QROB	ALOB	ACH	AROB	VOL	TWA	R-BANK ELEV
TIME	VLOB	VCH	VROB	XNL	XNCH	XNR	WTN	ELMIN	SSTA
SLOPE	XLOBL	XLCH	XLOBR	ITRIAL	IDC	ICONT	CORAR	TOPWID	ENDST

FLOW DISTRIBUTION FOR SECNO= 29.80 CWSEL= 1339.98

STA=	9417.	9475.	9506.	9882.	10205.	10215.	10335.	10521.	10561.
PER Q=	1.5	.6	.1	56.2	.2	14.7	26.3	.5	
AREA=	162.7	71.8	34.6	2414.7	23.8	879.5	1484.1	74.4	
VEL=	2.1	1.8	.7	5.4	1.8	3.8	4.1	1.5	
DEPTH=	2.8	2.3	.1	7.5	2.4	7.3	8.0	1.8	

\*SECNO 29.890

3265 DIVIDED FLOW

29.890	11.09	1340.69	1335.68	.00	1340.98	.29	.64	.01	1341.10
23000.0	37.7	3744.1	19218.1	46.6	833.5	4489.7	27410.9	7168.0	1341.00
7.73	.81	4.49	4.28	.055	.040	.055	.000	1329.60	9667.22
.001472	450.	445.	440.	2	8	0	.00	815.30	10678.42

FLOW DISTRIBUTION FOR SECNO= 29.89 CWSEL= 1340.69

STA=	9667.	9734.	10052.	10148.	10205.	10240.	10300.	10438.	10579.	10678.
PER Q=	.2	16.3	3.3	5.9	2.0	8.0	33.3	26.8	4.3	
AREA=	46.6	833.5	276.7	375.5	158.8	458.3	1502.5	1330.7	387.1	
VEL=	.8	4.5	2.8	3.6	2.8	4.0	5.1	4.6	2.6	
DEPTH=	.7	5.7	2.9	6.6	4.5	7.6	10.9	9.4	3.9	

\*SECNO 29.990

3265 DIVIDED FLOW

3301 HV CHANGED MORE THAN HVINS

3302 WARNING: CONVEYANCE CHANGE OUTSIDE OF ACCEPTABLE RANGE, KRATIO = .45

29.990	8.63	1341.53	1340.40	.00	1342.66	1.12	1.43	.25	1346.60
23000.0	26.4	10713.9	12259.8	25.4	1062.6	1789.9	27458.8	7176.6	1344.10
7.75	1.04	10.08	6.85	.055	.040	.055	.000	1332.90	9705.79
.007374	550.	525.	500.	2	20	0	.00	648.86	10500.08

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SECNO	DEPTH	CWSEL	CRISW	WSELK	EG	HV	HL	OLOSS	L-BANK ELEV
Q	QLOB	QCH	QROB	ALOB	ACH	AROB	VOL	TWA	R-BANK ELEV
TIME	VLOB	VCH	VROB	XNL	XNCH	XNR	WTN	ELMIN	SSTA
SLOPE	XLOBL	XLCH	XLOBR	ITRIAL	IDC	ICONT	CORAR	TOPWID	ENDST

FLOW DISTRIBUTION FOR SECNO= 29.99 CWSEL= 1341.53

STA=	9706.	9749.	9778.	9851.	10115.	10140.	10414.	10430.	10470.	10500.
PER Q=	.1	.0	.0	46.6	.3	33.7	4.0	12.5	2.9	
AREA=	13.7	9.2	2.5	1062.6	20.5	1228.2	110.1	313.3	117.8	
VEL=	1.1	1.1	.7	10.1	3.0	6.3	8.4	9.2	5.6	
DEPTH=	.3	.3	.0	5.7	.8	4.5	6.9	7.8	3.9	

\*SECNO 30.070

3265 DIVIDED FLOW

30.070	10.36	1344.36	1342.19	.00	1345.27	.91	2.59	.02	1344.60
23000.0	2939.6	10430.0	9630.4	782.9	1190.6	1325.9	27492.3	7183.3	1344.50
7.77	3.75	8.76	7.26	.055	.040	.055	.000	1334.00	9656.01
.004246	425.	450.	500.	3	11	0	.00	614.20	10275.61

FLOW DISTRIBUTION FOR SECNO= 30.07 CWSEL= 1344.36

STA=	9656.	9665.	9728.	9781.	9910.	9924.	10098.	10114.	10132.	10261.	10276.
PER Q=	.1	1.6	1.8	9.0	.3	45.3	.0	1.5	38.9	1.5	
AREA=	12.8	129.7	127.6	484.8	28.0	1190.6	5.1	76.6	1168.5	75.7	
VEL=	2.2	2.8	3.2	4.3	2.7	8.8	.9	4.4	7.7	4.6	
DEPTH=	1.4	2.1	2.4	3.8	2.0	7.0	.3	4.3	9.1	5.2	

\*SECNO 30.170

3302 WARNING: CONVEYANCE CHANGE OUTSIDE OF ACCEPTABLE RANGE, KRATIO = 1.52

30.170	10.54	1346.14	1342.65	.00	1346.70	.56	1.40	.04	1339.80
23000.0	4682.3	14091.1	4226.6	1265.1	2032.8	931.4	27536.6	7190.1	1339.30
7.79	3.70	6.93	4.54	.055	.040	.055	.000	1335.60	9642.18
.001842	440.	520.	570.	2	19	0	.00	572.13	10214.31

FLOW DISTRIBUTION FOR SECNO= 30.17 CWSEL= 1346.14

STA=	9642.	9663.	9756.	9868.	10092.	10194.	10214.
PER Q=	.6	8.7	11.0	61.3	17.1	1.3	
AREA=	62.8	537.8	664.5	2032.8	834.7	96.8	
VEL=	2.4	3.7	3.8	6.9	4.7	3.1	
DEPTH=	3.0	5.8	5.9	9.1	8.2	4.8	

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SECNO	DEPTH	CWSEL	CRISWS	WSELK	EG	HV	HL	OLOSS	L-BANK ELEV
Q	QLOB	QCH	QROB	ALOB	ACH	AROB	VOL	TWA	R-BANK ELEV
TIME	VLOB	VCH	VROB	XNL	XNCH	XNR	WTN	ELMIN	SSTA
SLOPE	XLOBL	XLCH	XLOBR	ITRIAL	IDC	ICONT	CORAR	TOPWID	ENDST

\*SECNO 30.260

3265 DIVIDED FLOW

30.260	8.27	1347.17	1343.91	.00	1347.61	.44	.89	.01	1342.10
23000.0	48.6	16234.0	6717.4	24.6	2761.9	1823.3	27586.1	7197.5	1339.30
7.82	1.97	5.88	3.68	.055	.040	.055	.000	1338.90	9739.28
.001815	430.	485.	520.	2	14	0	.00	743.79	10613.73

FLOW DISTRIBUTION FOR SECNO= 30.26 CWSEL= 1347.17

STA=	9739.	9749.	10135.	10314.	10335.	10545.	10604.	10614.
PER Q=	.2	70.6	21.2	.6	2.2	5.1	.2	
AREA=	24.6	2761.9	1193.2	57.8	220.3	325.4	26.6	
VEL=	2.0	5.9	4.1	2.2	2.3	3.6	2.1	
DEPTH=	2.5	7.2	6.7	2.7	1.0	5.5	2.7	

\*SECNO 30.360

3265 DIVIDED FLOW

30.360	7.03	1348.23	1346.35	.00	1348.92	.69	1.24	.08	1341.20
23000.0	1893.2	16532.7	4574.1	385.9	2213.2	1300.8	27637.1	7207.2	1342.80
7.84	4.91	7.47	3.52	.055	.040	.055	.000	1341.20	9786.99
.003287	500.	515.	535.	2	14	0	.00	862.74	10871.91

FLOW DISTRIBUTION FOR SECNO= 30.36 CWSEL= 1348.23

STA=	9787.	9796.	9858.	10195.	10341.	10351.	10764.	10776.	10854.	10872.
PER Q=	.2	8.0	71.9	8.8	.1	2.6	1.1	7.1	.2	
AREA=	21.3	364.6	2213.2	544.6	10.5	288.6	58.0	372.9	26.2	
VEL=	2.5	5.0	7.5	3.7	1.5	2.0	4.3	4.4	2.0	
DEPTH=	2.4	5.9	6.6	3.7	1.0	.7	4.8	4.8	1.5	

\*SECNO 30.460

3265 DIVIDED FLOW

30.460	8.62	1349.82	1347.90	.00	1350.76	.94	1.77	.07	1341.20
23000.0	265.5	20321.8	2412.7	66.1	2479.1	749.9	27678.9	7216.3	1343.10
7.86	4.02	8.20	3.22	.055	.040	.055	.000	1341.20	9799.67
.003787	475.	495.	540.	2	11	0	.00	679.04	10875.19

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SECNO	DEPTH	CWSEL	CRISWS	WSELK	EG	HV	HL	OLOSS	L-BANK ELEV
Q	QLOB	QCH	QROB	ALOB	ACH	AROB	VOL	TWA	R-BANK ELEV
TIME	VLOB	VCH	VROB	XNL	XNCH	XNR	WTN	ELMIN	SSTA
SLOPE	XLOBL	XLCH	XLOBR	ITRIAL	IDC	ICONT	CORAR	TOPWID	ENDST

FLOW DISTRIBUTION FOR SECNO= 30.46 CWSEL= 1349.82

STA=	9800.	9815.	10180.	10253.	10782.	10875.
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PER Q= 1.2 88.4 4.3 3.5 2.7  
 AREA= 66.1 2479.1 257.0 277.6 215.3  
 VEL= 4.0 8.2 3.8 2.9 2.9  
 DEPTH= 4.3 6.8 3.5 .5 2.3

\*SECNO 30.550

3265 DIVIDED FLOW

30.550	8.18	1351.58	1348.51	.00	1352.33	.75	1.55	.02	1363.20
21000.0	.0	20446.8	553.2	.0	2898.1	324.2	27716.6	7224.1	1353.70
7.88	.00	7.06	1.71	.000	.040	.055	.000	1343.40	9736.57
.002530	500.	500.	525.	2	11	0	.00	646.17	10818.21

FLOW DISTRIBUTION FOR SECNO= 30.55 CWSEL= 1351.58

STA= 9737. 10138. 10620. 10718. 10810. 10818.  
 PER Q= 97.4 .2 .7 1.6 .1  
 AREA= 2898.1 38.5 105.7 168.2 11.8  
 VEL= 7.1 1.1 1.4 2.0 1.7  
 DEPTH= 7.4 .1 1.1 1.8 1.4

\*SECNO 30.650

3265 DIVIDED FLOW

3301 HV CHANGED MORE THAN HVINS

30.650	9.36	1353.06	1351.13	.00	1354.34	1.28	1.85	.16	1346.20
21000.0	6397.2	14059.4	543.3	914.2	1401.9	199.5	27751.4	7230.6	1354.60
7.90	7.00	10.03	2.72	.055	.040	.055	.000	1343.70	9781.16
.005106	535.	530.	500.	2	11	0	.00	443.80	10911.83

FLOW DISTRIBUTION FOR SECNO= 30.65 CWSEL= 1353.06

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SECNO	DEPTH	CWSEL	CRISWS	WSELK	EG	HV	HL	OLOSS	L-BANK ELEV
Q	QLOB	QCH	QROB	ALOB	ACH	AROB	VOL	TWA	R-BANK ELEV
TIME	VLOB	VCH	VROB	XNL	XNCH	XNR	WTN	ELMIN	SSTA
SLOPE	XLOBL	XLCH	XLOBR	ITRIAL	IDC	ICONT	CORAR	TOPWID	ENDST

STA= 9781. 9796. 9916. 10115. 10843. 10912.  
 PER Q= 1.1 29.3 66.9 1.1 1.5  
 AREA= 55.3 858.9 1401.9 83.9 115.5  
 VEL= 4.3 7.2 10.0 2.7 2.7  
 DEPTH= 3.7 7.2 7.4 .1 1.7

\*SECNO 30.730

3265 DIVIDED FLOW

30.730	9.64	1354.84	1352.45	.00	1356.07	1.23	1.72	.00	1345.20
21000.0	333.1	17423.6	3243.3	81.6	1815.7	793.9	27776.2	7234.8	1345.60
7.91	4.08	9.60	4.09	.055	.040	.055	.000	1345.20	9864.07
.003382	445.	420.	370.	3	12	0	.00	475.04	11030.42

FLOW DISTRIBUTION FOR SECNO= 30.73 CWSEL= 1354.84

STA= 9864. 9881. 10075. 10148. 10202. 10236. 10481. 10500. 11023. 11030.  
 PER Q= 1.6 83.0 10.0 3.4 1.1 .0 .0 .8 .1  
 AREA= 81.6 1815.7 418.8 193.7 84.0 6.2 4.2 75.4 11.6  
 VEL= 4.1 9.6 5.0 3.7 2.9 .6 .6 2.1 2.0  
 DEPTH= 4.8 9.4 5.7 3.6 2.5 .0 .2 .1 1.6

\*SECNO 30.820

3265 DIVIDED FLOW

3301 HV CHANGED MORE THAN HVINS

3302 WARNING: CONVEYANCE CHANGE OUTSIDE OF ACCEPTABLE RANGE, KRATIO = 1.43

30.820	11.55	1356.75	1352.90	.00	1357.22	.47	1.08	.08	1345.20
21000.0	426.9	14339.4	6233.7	130.6	2311.9	1810.9	27812.2	7241.0	1352.00
7.94	3.27	6.20	3.44	.055	.040	.055	.000	1345.20	9901.41
.001647	500.	500.	370.	1	15	0	.00	801.24	11137.68

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SECNO	DEPTH	CWSEL	CRISWS	WSELK	EG	HV	HL	OLOSS	L-BANK ELEV
Q	QLOB	QCH	QROB	ALOB	ACH	AROB	VOL	TWA	R-BANK ELEV
TIME	VLOB	VCH	VROB	XNL	XNCH	XNR	WTN	ELMIN	SSTA

SLOPE	XLOBL	XLCH	XLOBR	ITRIAL	IDC	ICONT	CORAR	TOPWID	ENDST
FLOW DISTRIBUTION FOR SECNO= 30.82 CWSEL= 1356.75									
STA=	9901.	9924.	10201.	10358.	10398.	10529.	11132.	11138.	
PER Q=	2.0	68.3	22.3	4.7	1.5	1.1	1.1	.0	
AREA=	130.6	2311.9	1140.4	260.5	213.0	190.6	6.4		
VEL=	3.3	6.2	4.1	3.8	1.5	1.2	1.1		
DEPTH=	5.8	8.3	7.3	6.5	1.6	.3	1.1		
*SECNO 30.920									
30.920	11.60	1357.60	1354.26	.00	1357.97	.36	.74	.01	1348.60
21000.0	188.8	13027.7	7783.5	78.4	2283.1	2660.5	27867.5	7250.5	1353.70
7.97	2.41	5.71	2.93	.055	.040	.055	.000	1346.00	9853.58
.001251	510.	510.	530.	2	16	0	.00	782.53	10636.11

SLOPE	XLOBL	XLCH	XLOBR	ITRIAL	IDC	ICONT	CORAR	TOPWID	ENDST
FLOW DISTRIBUTION FOR SECNO= 30.92 CWSEL= 1357.60									
STA=	9854.	9871.	10123.	10241.	10555.	10616.	10636.		
PER Q=	.9	62.0	4.9	25.6	6.1	.4			
AREA=	78.4	2283.1	443.0	1775.5	390.7	51.3			
VEL=	2.4	5.7	2.3	3.0	3.3	1.7			
DEPTH=	4.5	9.1	3.8	5.7	6.4	2.6			
*SECNO 31.010									
31.010	8.83	1358.33	1355.92	.00	1358.92	.59	.89	.07	1353.30
21000.0	62.3	15258.2	5679.5	27.5	2192.4	1825.0	27925.2	7261.9	1356.60
7.99	2.27	6.96	3.11	.055	.040	.055	.000	1349.50	9727.07
.002333	485.	490.	620.	2	11	0	.00	938.71	10665.78

SLOPE	XLOBL	XLCH	XLOBR	ITRIAL	IDC	ICONT	CORAR	TOPWID	ENDST
FLOW DISTRIBUTION FOR SECNO= 31.01 CWSEL= 1358.33									
STA=	9727.	9738.	10024.	10156.	10429.	10653.	10666.		
PER Q=	.3	72.7	.7	5.3	20.6	.5			
AREA=	27.5	2192.4	116.7	541.6	1127.6	39.2			
VEL=	2.3	7.0	1.2	2.1	3.8	2.6			
DEPTH=	2.5	7.7	.9	2.0	5.0	3.1			
*SECNO 31.110									
31.110	10.18	1359.58	1357.68	.00	1360.31	.73	1.35	.04	1355.20
21000.0	49.3	14165.9	6784.7	20.3	1779.3	1933.1	27969.4	7272.3	1357.90
8.01	2.43	7.96	3.51	.055	.040	.055	.000	1349.40	9871.73
.003240	480.	490.	500.	2	9	0	.00	883.70	10755.43

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SECNO	DEPTH	CWSEL	CRISW	WSELK	EG	HV	HL	OLOSS	L-BANK ELEV
Q	QLOB	QCH	QROB	ALOB	ACH	AROB	VOL	TWA	R-BANK ELEV
TIME	VLOB	VCH	VROB	XNL	XNCH	XNR	WTN	ELMIN	SSTA
SLOPE	XLOBL	XLCH	XLOBR	ITRIAL	IDC	ICONT	CORAR	TOPWID	ENDST

SLOPE	XLOBL	XLCH	XLOBR	ITRIAL	IDC	ICONT	CORAR	TOPWID	ENDST
FLOW DISTRIBUTION FOR SECNO= 31.11 CWSEL= 1359.58									
STA=	9872.	9881.	10124.	10313.	10739.	10755.			
PER Q=	.2	67.5	2.1	29.3	.9				
AREA=	20.3	1779.3	243.1	1634.2	55.7				
VEL=	2.4	8.0	1.8	3.8	3.3				
DEPTH=	2.2	7.3	1.3	3.8	3.4				
*SECNO 31.200									
31.200	11.39	1361.29	1358.83	.00	1361.66	.37	1.31	.04	1354.90
21000.0	7516.9	7643.4	5839.7	1825.3	1196.5	1866.8	28019.4	7283.1	1356.60
8.04	4.12	6.39	3.13	.055	.040	.055	.000	1349.90	9581.75
.002121	460.	510.	525.	2	9	0	.00	950.93	10532.68

SLOPE	XLOBL	XLCH	XLOBR	ITRIAL	IDC	ICONT	CORAR	TOPWID	ENDST
FLOW DISTRIBUTION FOR SECNO= 31.20 CWSEL= 1361.29									
STA=	9582.	9635.	9713.	9746.	9776.	9804.	9828.	9877.	9897.
PER Q=	2.2	9.3	5.4	4.6	2.4	3.5	6.5	1.9	36.4
AREA=	172.7	470.9	242.1	211.1	139.6	164.1	317.9	106.7	1196.5
VEL=	2.7	4.1	4.7	4.5	3.6	4.4	4.3	3.8	6.4
DEPTH=	3.2	6.0	7.3	7.0	5.0	6.8	6.5	5.3	7.3

\*SECNO 31.290

3265 DIVIDED FLOW

3280 CROSS SECTION 31.29 EXTENDED .22 FEET

3302 WARNING: CONVEYANCE CHANGE OUTSIDE OF ACCEPTABLE RANGE, KRATIO = .62

SLOPE	XLOBL	XLCH	XLOBR	ITRIAL	IDC	ICONT	CORAR	TOPWID	ENDST
31.290	7.02	1362.52	1361.29	.00	1363.23	.71	1.47	.10	1362.80
21000.0	5879.1	10308.8	4812.2	1056.9	1272.1	1079.5	28063.1	7292.5	1359.90
8.06	5.56	8.10	4.46	.055	.040	.055	.000	1355.50	9450.00
.005450	425.	460.	490.	0	8	0	.00	830.37	10451.95

FLOW DISTRIBUTION FOR SECNO= 31.29 CWSSEL= 1362.52

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SECNO	DEPTH	CWSSEL	CRISWS	WSELK	EG	HV	HL	OLOSS	L-BANK ELEV
Q	QLOB	QCH	QROB	ALOB	ACH	AROB	VOL	TWA	R-BANK ELEV
TIME	VLOB	VCH	VROB	XNL	XNCH	XNR	WTN	ELMIN	SSTA
SLOPE	XLOBL	XLCH	XLOBR	ITRIAL	IDC	ICONT	CORAR	TOPWID	ENDST

STA= 9450. 9562. 9670. 9699. 10121. 10244. 10425. 10452.  
 PER Q= 6.3 19.9 1.8 49.1 6.2 15.7 1.1  
 AREA= 326.7 639.0 91.2 1272.1 334.1 681.8 63.6  
 VEL= 4.1 6.5 4.2 8.1 3.9 4.8 3.5  
 DEPTH= 2.9 5.9 3.1 5.1 2.7 3.8 2.4

\*SECNO 31.390

3302 WARNING: CONVEYANCE CHANGE OUTSIDE OF ACCEPTABLE RANGE, KRATIO = 1.43

31.390	10.07	1364.77	1362.48	.00	1365.16	.39	1.90	.03	1363.10
21000.0	5955.4	9139.9	5904.7	1322.5	1552.0	1532.7	28109.4	7302.8	1357.40
8.09	4.50	5.89	3.85	.055	.040	.055	.000	1354.70	9513.45
.002661	540.	510.	500.	2	8	0	.00	914.34	10427.79

FLOW DISTRIBUTION FOR SECNO= 31.39 CWSSEL= 1364.77

STA= 9513. 9526. 9561. 9643. 9792. 10080. 10242. 10387. 10428.  
 PER Q= .8 9.3 13.3 4.9 43.5 17.4 9.6 1.1  
 AREA= 51.9 321.0 559.2 390.4 1552.0 861.8 575.7 95.2  
 VEL= 3.2 6.1 5.0 2.6 5.9 4.2 3.5 2.4  
 DEPTH= 4.1 9.2 6.8 2.6 5.4 5.3 4.0 2.3

\*SECNO 31.490

31.490	6.84	1366.34	1364.26	.00	1366.81	.47	1.62	.02	1359.50
21000.0	9512.0	11451.2	36.8	2185.1	1828.3	20.5	28162.9	7314.0	1363.80
8.12	4.35	6.26	1.79	.055	.040	.055	.000	1359.50	9471.01
.003256	575.	545.	520.	3	14	0	.00	840.16	10311.17

FLOW DISTRIBUTION FOR SECNO= 31.49 CWSSEL= 1366.34

STA= 9471. 9480. 9524. 9653. 9779. 9935. 10295. 10311.  
 PER Q= .4 5.5 12.4 9.7 17.2 54.5 .2  
 AREA= 29.0 241.6 605.0 515.4 794.1 1828.3 20.5  
 VEL= 2.9 4.8 4.3 3.9 4.6 6.3 1.8  
 DEPTH= 3.2 5.5 4.7 4.1 5.1 5.1 1.3

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SECNO	DEPTH	CWSSEL	CRISWS	WSELK	EG	HV	HL	OLOSS	L-BANK ELEV
Q	QLOB	QCH	QROB	ALOB	ACH	AROB	VOL	TWA	R-BANK ELEV
TIME	VLOB	VCH	VROB	XNL	XNCH	XNR	WTN	ELMIN	SSTA
SLOPE	XLOBL	XLCH	XLOBR	ITRIAL	IDC	ICONT	CORAR	TOPWID	ENDST

\*SECNO 31.590

31.590	9.07	1367.77	1364.70	.00	1368.17	.40	1.35	.01	1364.20
21000.0	11187.2	9761.4	51.4	2523.5	1705.8	24.6	28211.2	7323.0	1363.20
8.15	4.43	5.72	2.09	.055	.040	.055	.000	1358.70	9457.39
.002225	505.	510.	520.	2	15	0	.00	718.38	10175.77

FLOW DISTRIBUTION FOR SECNO= 31.59 CWSSEL= 1367.77

STA= 9457. 9482. 9608. 9782. 9876. 10165. 10176.  
 PER Q= 1.8 27.2 19.6 4.8 46.5 .2  
 AREA= 111.6 1073.2 1003.5 335.3 1705.8 24.6  
 VEL= 3.3 5.3 4.1 3.0 5.7 2.1  
 DEPTH= 4.5 8.5 5.8 3.6 5.9 2.3

\*SECNO 31.670

31.670	11.52	1368.72	1365.46	.00	1369.08	.36	.91	.00	1366.00
21000.0	9494.6	11428.9	76.5	2218.8	2183.1	34.6	28256.4	7330.6	1362.80
8.17	4.28	5.24	2.21	.055	.040	.055	.000	1357.20	9463.07
.001829	455.	450.	445.	2	12	0	.00	733.63	10196.70

FLOW DISTRIBUTION FOR SECNO= 31.67 CWSSEL= 1368.72

STA= 9463. 9499. 9631. 9664. 9820. 10185. 10197.  
 PER Q= 3.5 30.8 3.6 7.3 54.4 .4  
 AREA= 207.0 1250.1 197.0 564.7 2183.1 34.6  
 VEL= 3.6 5.2 3.8 2.7 5.2 2.2  
 DEPTH= 5.8 9.5 6.0 3.6 6.0 3.0

\*SECNO 31.770

31.770	13.56	1369.76	1367.01	.00	1370.25	.49	1.13	.04	1365.30
21000.0	12252.0	8549.1	199.0	2413.9	1349.4	63.3	28303.5	7338.5	1363.00

8.20 5.08 6.34 3.14 .055 .040 .055 .000 1356.20 9469.30  
.002892 495. 500. 510. 2 10 0 .00 650.44 10119.74

FLOW DISTRIBUTION FOR SECNO= 31.77 CWSEL= 1369.76

STA= 9469. 9508. 9560. 9748. 9862. 10101. 10120.  
PER Q= 6.3 17.8 24.8 9.5 40.7 .9  
AREA= 262.4 541.3 1101.7 508.5 1349.4 63.3  
VEL= 5.0 6.9 4.7 3.9 6.3 3.1  
DEPTH= 6.8 10.4 5.9 4.5 5.6 3.4

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SECNO	DEPTH	CWSEL	CRIS	WSELK	EG	HV	HL	OLOSS	L-BANK ELEV
Q	QLOB	QCH	QROB	ALOB	ACH	AROB	VOL	TWA	R-BANK ELEV
TIME	VLOB	VCH	VROB	XLN	XNCH	XNR	WTN	ELMIN	SSTA
SLOPE	XLOBL	XLCH	XLOBR	ITRIAL	IDC	ICONT	CORAR	TOPWID	ENDST

\*SECNO 31.860  
31.860 9.26 1371.26 1368.72 .00 1371.73 .47 1.48 .00 1366.70  
21000.0 9997.4 10899.9 102.7 1977.8 1853.2 36.6 28348.7 7346.3 1365.30  
8.22 5.05 5.88 2.80 .055 .040 .055 .000 1362.00 9580.72  
.002893 520. 500. 490. 2 9 0 .00 692.60 10273.31

FLOW DISTRIBUTION FOR SECNO= 31.86 CWSEL= 1371.26

STA= 9581. 9604. 9727. 9894. 10261. 10273.  
PER Q= 2.0 26.1 19.5 51.9 .5  
AREA= 107.7 959.6 910.5 1853.2 36.6  
VEL= 3.8 5.7 4.5 5.9 2.8  
DEPTH= 4.6 7.8 5.5 5.0 3.0

\*SECNO 31.960  
31.960 8.18 1372.48 1370.06 .00 1373.00 .52 1.26 .01 1369.10  
19000.0 4271.3 14605.3 123.4 1314.3 2306.1 44.5 28392.0 7354.1 1364.30  
8.25 3.25 6.33 2.77 .055 .040 .055 .000 1364.30 9583.92  
.002167 495. 505. 515. 2 14 0 .00 662.96 10246.88

FLOW DISTRIBUTION FOR SECNO= 31.96 CWSEL= 1372.48

STA= 9584. 9598. 9693. 9758. 9812. 9907. 10236. 10247.  
PER Q= .4 7.0 5.8 4.6 4.7 76.9 .6  
AREA= 34.4 402.1 310.9 250.2 316.7 2306.1 44.5  
VEL= 2.2 3.3 3.6 3.5 2.8 6.3 2.8  
DEPTH= 2.4 4.2 4.8 4.6 3.3 7.0 4.1

\*SECNO 32.050  
32.050 11.33 1373.53 1370.61 .00 1374.12 .59 1.10 .02 1364.10  
19000.0 5194.0 13777.4 28.6 1473.9 1999.3 16.1 28433.1 7361.6 1370.00  
8.27 3.52 6.89 1.77 .055 .040 .055 .000 1362.20 9461.84  
.002209 495. 505. 520. 2 8 0 .00 644.28 10106.13

FLOW DISTRIBUTION FOR SECNO= 32.05 CWSEL= 1373.53

STA= 9462. 9479. 9564. 9634. 9736. 9843. 10097. 10106.  
PER Q= .7 4.5 1.0 4.2 16.9 72.5 .2  
AREA= 50.9 296.1 107.4 304.3 715.2 1999.3 16.1  
VEL= 2.5 2.9 1.7 2.6 4.5 6.9 1.8  
DEPTH= 3.0 3.5 1.5 3.0 6.7 7.9 1.8

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SECNO	DEPTH	CWSEL	CRIS	WSELK	EG	HV	HL	OLOSS	L-BANK ELEV
Q	QLOB	QCH	QROB	ALOB	ACH	AROB	VOL	TWA	R-BANK ELEV
TIME	VLOB	VCH	VROB	XLN	XNCH	XNR	WTN	ELMIN	SSTA
SLOPE	XLOBL	XLCH	XLOBR	ITRIAL	IDC	ICONT	CORAR	TOPWID	ENDST

\*SECNO 32.150  
32.150 8.69 1374.89 1373.61 .00 1375.59 .69 1.43 .03 1373.80  
19000.0 5839.3 12984.7 176.0 1500.4 1700.5 45.2 28470.2 7369.3 1366.20  
8.29 3.89 7.64 3.89 .055 .040 .055 .000 1366.20 9339.83  
.004164 460. 495. 495. 2 14 0 .00 761.57 10101.40

FLOW DISTRIBUTION FOR SECNO= 32.15 CWSEL= 1374.89

STA= 9340. 9343. 9553. 9792. 10091. 10101.  
PER Q= .0 15.5 15.2 68.3 .9  
AREA= 2.7 734.0 763.7 1700.5 45.2  
VEL= 1.4 4.0 3.8 7.6 3.9  
DEPTH= .8 3.5 3.2 5.7 4.3

\*SECNO 32.240  
32.240 9.82 1376.72 1374.88 .00 1377.25 .53 1.64 .02 1374.00  
19000.0 6985.0 12015.0 .0 1694.3 1814.2 .0 28504.3 7376.6 1387.50





3265 DIVIDED FLOW

3302 WARNING: CONVEYANCE CHANGE OUTSIDE OF ACCEPTABLE RANGE, KRATIO = .60

32.860	10.61	1385.51	1384.87	.00	1387.21	1.70	2.07	.13	1380.40
19000.0	3728.2	14767.7	504.1	447.1	1333.7	133.6	28736.3	7413.1	1386.50
8.46	8.34	11.07	3.77	.045	.045	.050	.000	1374.90	9806.95
.009852	280.	380.	580.	3	14	0	.00	432.33	10331.70

FLOW DISTRIBUTION FOR SECNO= 32.86 CWSEL= 1385.51

STA=	9807.	9855.	9928.	10155.	10239.	10268.	10332.
PER Q=	3.0	16.7	77.7	1.8	.8	.0	.0
AREA=	103.5	343.7	1333.7	91.1	42.3	.3	.3
VEL=	5.5	9.2	11.1	3.8	3.8	.4	.4
DEPTH=	2.2	4.7	6.2	1.1	1.5	.0	.0

\*SECNO 32.920

3470 ENCROACHMENT STATIONS=	9680.0	10180.0	TYPE=	1	TARGET=	500.000			
32.920	7.40	1388.40	1387.46	.00	1390.20	1.81	2.97	.03	1382.70
19000.0	261.6	17851.5	887.0	42.8	1621.3	135.4	28749.6	7415.8	1383.10
8.46	6.12	11.01	6.55	.045	.045	.050	.000	1381.00	9875.99
.009291	290.	310.	370.	2	14	0	.00	304.01	10180.00

FLOW DISTRIBUTION FOR SECNO= 32.92 CWSEL= 1388.40

STA=	9876.	9891.	10143.	10180.
PER Q=	1.4	94.0	4.7	
AREA=	42.8	1621.3	135.4	
VEL=	6.1	11.0	6.6	
DEPTH=	2.8	6.4	3.7	

\*SECNO 32.979

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SECNO	DEPTH	CWSEL	CRISWS	WSELK	EG	HV	HL	OLOSS	L-BANK ELEV
Q	QLOB	QCH	QROB	ALOB	ACH	AROB	VOL	TWA	R-BANK ELEV
TIME	VLOB	VCH	VROB	XNL	XNCH	XNR	WTN	ELMIN	SSTA
SLOPE	XLOBL	XLCH	XLOBR	ITRIAL	IDC	ICONT	CORAR	TOPWID	ENDST

3301 HV CHANGED MORE THAN HVINS

32.979	11.42	1391.12	1390.50	.00	1393.73	2.61	3.29	.24	1384.70
19000.0	5212.3	13787.7	.0	437.8	1032.8	.0	28761.4	7417.7	1394.40
8.47	11.91	13.35	.00	.045	.045	.000	.000	1379.70	9857.21
.011836	310.	315.	330.	2	14	0	.00	218.94	10076.15

FLOW DISTRIBUTION FOR SECNO= 32.98 CWSEL= 1391.12

STA=	9857.	9876.	9933.	10098.
PER Q=	2.6	24.9	72.6	
AREA=	63.2	374.7	1032.8	
VEL=	7.7	12.6	13.4	
DEPTH=	3.4	6.6	7.2	

\*SECNO 32.984

3370 NORMAL BRIDGE, NRD= 18 MIN ELTRD= 1432.00 MAX ELLC= 1427.30

\*\*\*\*\* STATE ROUTE 74 \*\*\*\*\*  
\*\*\*\*\* LOW CHORD = 1427.0 \*\*\*\*\*

32.984	12.98	1391.39	1390.95	.00	1394.15	2.77	.37	.05	1386.60
19000.0	8245.1	5074.1	5680.7	645.0	380.3	402.0	28762.3	7417.8	1380.20
8.47	12.78	13.34	14.13	.045	.045	.050	.000	1378.40	9824.22
.015007	28.	28.	28.	2	18	0	-192.47	257.69	10081.91

FLOW DISTRIBUTION FOR SECNO= 32.98 CWSEL= 1391.39

STA=	9824.	9900.	9909.	9962.	10011.	10018.	10050.	10065.	10082.
PER Q=	27.3	3.7	12.4	26.7	6.3	20.4	3.3	.0	.0
AREA=	384.9	53.9	206.3	380.3	71.3	261.9	66.1	2.7	.0
VEL=	13.5	13.0	11.4	13.3	16.7	14.8	9.4	1.6	.0
DEPTH=	5.1	6.0	3.9	7.8	10.2	8.2	4.4	.2	.0

\*SECNO 32.993

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SECNO	DEPTH	CWSEL	CRISWS	WSELK	EG	HV	HL	OLOSS	L-BANK ELEV
Q	QLOB	QCH	QROB	ALOB	ACH	AROB	VOL	TWA	R-BANK ELEV
TIME	VLOB	VCH	VROB	XNL	XNCH	XNR	WTN	ELMIN	SSTA

SLOPE	XLOBL	XLCH	XLOBR	ITRIAL	IDC	ICONT	CORAR	TOPWID	ENDST
3301 HV CHANGED MORE THAN HVINS									
3302 WARNING: CONVEYANCE CHANGE OUTSIDE OF ACCEPTABLE RANGE, KRATIO = 1.40									
3370 NORMAL BRIDGE, NRD= 18 MIN ELTRD= 1432.00 MAX ELLC= 1427.30									
32.993	14.57	1392.97	1390.95	.00	1394.72	1.75	.47	.10	1386.60
19000.0	8911.3	4497.6	5591.1	839.6	442.1	509.2	28764.0	7418.1	1380.20
8.47	10.61	10.17	10.98	.045	.045	.050	.000	1378.40	9817.15
.007615	45.	45.	45.	4	18	0	-255.19	275.10	10092.25

FLOW DISTRIBUTION FOR SECNO= 32.99 CWSEL= 1392.97

STA=	9817.	9851.	9900.	9909.	9962.	10011.	10018.	10050.	10065.	10092.
PER Q=	3.9	24.9	3.9	14.2	23.7	5.7	19.5	3.9	.4	
AREA=	94.4	402.7	68.1	274.4	442.1	82.4	312.6	89.8	24.5	
VEL=	7.9	11.7	10.8	9.9	10.2	13.1	11.8	8.2	3.2	
DEPTH=	2.8	8.2	7.6	5.2	9.0	11.8	9.8	6.0	.9	

\*SECNO 32.998

32.998	11.76	1393.16	1391.65	.00	1394.94	1.78	.21	.01	1389.00
19000.0	78.8	18921.2	.0	17.5	1763.5	.0	28765.1	7418.3	1393.10
8.47	4.51	10.73	.03	.045	.045	.050	.000	1381.40	9842.60
.008130	27.	27.	27.	3	19	0	.00	265.57	10108.17

FLOW DISTRIBUTION FOR SECNO= 33.00 CWSEL= 1393.16

STA=	9843.	9851.	10108.
PER Q=	.4	99.6	
AREA=	17.5	1763.5	
VEL=	4.5	10.7	
DEPTH=	2.1	6.9	

\*SECNO 33.060

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SECNO	DEPTH	CWSEL	CRISW	WSELK	EG	HV	HL	OLOSS	L-BANK ELEV
Q	QLOB	QCH	QROB	ALOB	ACH	AROB	VOL	TWA	R-BANK ELEV
TIME	VLOB	VCH	VROB	XNL	XNCH	XNR	WTN	ELMIN	SSTA
SLOPE	XLOBL	XLCH	XLOBR	ITRIAL	IDC	ICONT	CORAR	TOPWID	ENDST

3301 HV CHANGED MORE THAN HVINS									
3302 WARNING: CONVEYANCE CHANGE OUTSIDE OF ACCEPTABLE RANGE, KRATIO = 2.14									
33.060	12.42	1395.52	1390.31	.00	1396.08	.56	1.02	.12	1386.00
19000.0	10509.2	8489.6	1.2	1586.8	1650.4	1.6	28782.7	7420.5	1394.70
8.49	6.62	5.14	.76	.045	.050	.045	.000	1383.10	9729.10
.001779	275.	320.	330.	2	14	0	.00	357.74	10086.84

FLOW DISTRIBUTION FOR SECNO= 33.06 CWSEL= 1395.52

STA=	9729.	9755.	9885.	10083.	10087.
PER Q=	3.7	51.6	44.7	.0	
AREA=	160.8	1425.9	1650.4	1.6	
VEL=	4.4	6.9	5.1	.8	
DEPTH=	6.2	11.0	8.3	.4	

\*SECNO 33.120

3302 WARNING: CONVEYANCE CHANGE OUTSIDE OF ACCEPTABLE RANGE, KRATIO = 1.84

33.120	11.99	1396.19	1389.28	.00	1396.37	.18	.25	.04	1386.90
19000.0	9898.2	8995.5	106.3	2779.7	2793.2	60.0	28812.3	7423.6	1388.00
8.51	3.56	3.22	1.77	.045	.050	.045	.000	1384.20	9540.60
.000526	260.	320.	330.	2	18	0	.00	563.05	10103.65

FLOW DISTRIBUTION FOR SECNO= 33.12 CWSEL= 1396.19

STA=	9541.	9559.	9612.	9690.	9817.	10089.	10104.
PER Q=	1.3	13.1	16.4	21.4	47.3	.6	
AREA=	108.5	630.3	841.8	1199.1	2793.2	60.0	
VEL=	2.2	3.9	3.7	3.4	3.2	1.8	
DEPTH=	5.9	11.9	10.8	9.4	10.3	4.1	

\*SECNO 33.190

33.190	10.58	1396.38	1391.75	.00	1396.60	.22	.22	.01	1389.50
19000.0	12133.1	6866.9	.0	3198.8	1812.9	.0	28850.9	7428.1	1400.00
8.53	3.79	3.79	.00	.045	.050	.000	.000	1385.80	9343.36
.000966	290.	350.	350.	2	8	0	.00	677.50	10020.86

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SECNO	DEPTH	CWSEL	CRWS	WSELK	EG	HV	HL	OLOSS	L-BANK ELEV
Q	QLOB	QCH	QROB	ALOB	ACH	AROB	VOL	TWA	R-BANK ELEV
TIME	VLOB	VCH	VROB	XNL	XNCH	XNR	WTN	ELMIN	SSTA
SLOPE	XLOBL	XLCH	XLOBR	ITRIAL	IDC	ICONT	CORAR	TOPWID	ENDST

FLOW DISTRIBUTION FOR SECNO= 33.19 CWSEL= 1396.38

STA=	9343.	9371.	9418.	9502.	9651.	9805.	10028.
PER Q=	1.8	10.9	15.2	17.2	18.7	36.1	
AREA=	125.5	448.0	691.4	935.9	998.1	1812.9	
VEL=	2.7	4.6	4.2	3.5	3.6	3.8	
DEPTH=	4.5	9.5	8.2	6.3	6.5	8.4	

\*SECNO 33.250

3301 HV CHANGED MORE THAN HVINS

3302 WARNING: CONVEYANCE CHANGE OUTSIDE OF ACCEPTABLE RANGE, KRATIO = .40

3470 ENCROACHMENT STATIONS=	9700.0	10200.0	TYPE=	1	TARGET=	500.000			
33.250	11.23	1396.43	1394.62	.00	1397.47	1.04	.62	.25	1391.20
19000.0	5623.5	13376.5	.0	793.2	1552.0	.0	28877.3	7431.9	1398.00
8.54	7.09	8.62	.00	.045	.050	.000	.000	1385.20	9700.00
.006096	310.	315.	320.	2	15	0	.00	385.96	10085.96

FLOW DISTRIBUTION FOR SECNO= 33.25 CWSEL= 1396.43

STA=	9700.	9739.	9870.	10098.
PER Q=	5.9	23.7	70.4	
AREA=	174.0	619.2	1552.0	
VEL=	6.5	7.3	8.6	
DEPTH=	4.5	4.7	7.2	

\*SECNO 33.290

3470 ENCROACHMENT STATIONS=	9750.0	10100.0	TYPE=	1	TARGET=	350.000			
33.290	17.43	1397.73	1395.69	.00	1398.97	1.23	1.44	.06	1393.20
19000.0	6138.2	12861.8	.0	728.1	1407.0	.0	28889.1	7433.7	1398.20
8.55	8.43	9.14	.00	.045	.050	.000	.000	1380.30	9750.00
.006515	215.	235.	250.	2	15	0	.00	306.49	10056.49

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SECNO	DEPTH	CWSEL	CRWS	WSELK	EG	HV	HL	OLOSS	L-BANK ELEV
Q	QLOB	QCH	QROB	ALOB	ACH	AROB	VOL	TWA	R-BANK ELEV
TIME	VLOB	VCH	VROB	XNL	XNCH	XNR	WTN	ELMIN	SSTA
SLOPE	XLOBL	XLCH	XLOBR	ITRIAL	IDC	ICONT	CORAR	TOPWID	ENDST

FLOW DISTRIBUTION FOR SECNO= 33.29 CWSEL= 1397.73

STA=	9750.	9872.	10058.
PER Q=	32.3	67.7	
AREA=	728.1	1407.0	
VEL=	8.4	9.1	
DEPTH=	6.0	7.6	

\*SECNO 33.300

3301 HV CHANGED MORE THAN HVINS

3302 WARNING: CONVEYANCE CHANGE OUTSIDE OF ACCEPTABLE RANGE, KRATIO = 2.00

33.300	18.21	1398.61	1391.29	.00	1399.18	.57	.14	.07	1396.20
19000.0	221.9	18778.1	.0	147.3	3089.8	.0	28892.1	7434.1	1399.70
8.55	1.51	6.08	.00	.045	.050	.000	.000	1380.40	9695.95
.001621	50.	50.	50.	2	14	0	.00	388.98	10084.93

FLOW DISTRIBUTION FOR SECNO= 33.30 CWSEL= 1398.61

STA=	9696.	9818.	10090.
PER Q=	1.2	98.8	
AREA=	147.3	3089.8	
VEL=	1.5	6.1	
DEPTH=	1.2	11.6	

\*SECNO 33.360

3265 DIVIDED FLOW

33.360	17.20	1399.10	1393.30	.00	1399.76	.65	.55	.03	1418.40
19000.0	.0	14563.4	4436.6	.0	2089.1	979.4	28914.1	7436.6	1402.20
8.57	.00	6.97	4.53	.000	.050	.045	.000	1381.90	9909.28
.002030	230.	305.	305.	2	14	0	.00	374.69	10338.56

FLOW DISTRIBUTION FOR SECNO= 33.36 CWSEL= 1399.10

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SECNO	DEPTH	CWSEL	CRISW	WSELK	EG	HV	HL	OLOSS	L-BANK ELEV
Q	QLOB	QCH	QROB	ALOB	ACH	AROB	VOL	TWA	R-BANK ELEV
TIME	VLOB	VCH	VROB	XNL	XNCH	XNR	WTN	ELMIN	SSTA
SLOPE	XLOBL	XLCH	XLOBR	ITRIAL	IDC	ICONT	CORAR	TOPWID	ENDST

STA= 9909. 10087. 10167. 10260. 10339.  
 PER Q= 76.6 .3 14.4 8.7  
 AREA= 2089.1 36.5 557.9 384.9  
 VEL= 7.0 1.6 4.9 4.3  
 DEPTH= 12.3 .5 6.0 4.9

*SECNO 33.410	33.410	12.84	1399.74	1395.03	.00	1400.49	.75	.70	.03	1408.30
	19000.0	.0	19000.0	.0	.0	2726.0	.0	28933.0	7439.0	1406.80
	8.58	.00	6.97	.00	.000	.050	.000	1386.90	9966.41	
	.003148	250.	275.	335.	2	14	0	.00	316.18	10282.59

FLOW DISTRIBUTION FOR SECNO= 33.41 CWSEL= 1399.74

STA= 9966. 10366.  
 PER Q= 100.0  
 AREA= 2726.0  
 VEL= 7.0  
 DEPTH= 8.6

\*SECNO 33.460

3301 HV CHANGED MORE THAN HVINS

3470 ENCROACHMENT STATIONS= 9670.0 10368.0 TYPE= 1 TARGET= 698.000

33.460	18.87	1400.77	1389.02	.00	1400.89	.12	.34	.06	1405.40
9000.0	.0	8899.8	100.2	.0	3150.1	102.5	28952.0	7441.1	1397.00
8.61	.00	2.83	.98	.000	.050	.045	.000	1381.90	9898.35
.000378	250.	275.	355.	2	11	0	.00	342.06	10240.41

FLOW DISTRIBUTION FOR SECNO= 33.46 CWSEL= 1400.77

STA= 9898. 10186. 10240.  
 PER Q= 98.9 1.1  
 AREA= 3150.1 102.5  
 VEL= 2.8 1.0  
 DEPTH= 11.0 1.9

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SECNO	DEPTH	CWSEL	CRISW	WSELK	EG	HV	HL	OLOSS	L-BANK ELEV
Q	QLOB	QCH	QROB	ALOB	ACH	AROB	VOL	TWA	R-BANK ELEV
TIME	VLOB	VCH	VROB	XNL	XNCH	XNR	WTN	ELMIN	SSTA
SLOPE	XLOBL	XLCH	XLOBR	ITRIAL	IDC	ICONT	CORAR	TOPWID	ENDST

\*SECNO 33.540

33.540	16.53	1400.93	1391.71	.00	1401.10	.17	.19	.01	1406.10
9000.0	.0	9000.0	.0	.0	2720.4	.0	28979.4	7444.0	1410.40
8.64	.00	3.31	.00	.000	.050	.000	.000	1384.40	9881.08
.000639	390.	400.	410.	2	18	0	.00	292.05	10173.14

FLOW DISTRIBUTION FOR SECNO= 33.54 CWSEL= 1400.93

STA= 9881. 10229.  
 PER Q= 100.0  
 AREA= 2720.4  
 VEL= 3.3  
 DEPTH= 9.3

\*SECNO 33.630

33.630	17.28	1401.28	1393.78	.00	1401.59	.31	.45	.04	1406.10
9000.0	.0	9000.0	.0	.0	2004.5	.0	29007.1	7447.0	1404.50
8.67	.00	4.49	.00	.000	.050	.000	.000	1384.00	9889.80
.001283	525.	510.	475.	2	14	0	.00	228.18	10117.98

FLOW DISTRIBUTION FOR SECNO= 33.63 CWSEL= 1401.28

STA= 9890. 10140.  
 PER Q= 100.0

AREA= 2004.5  
VEL= 4.5  
DEPTH= 8.8

\*SECNO 33.730

3265 DIVIDED FLOW

3302 WARNING: CONVEYANCE CHANGE OUTSIDE OF ACCEPTABLE RANGE, KRATIO = .67

33.730	11.52	1402.02	1398.96	.00	1402.56	.54	.91	.07	1409.00
9000.0	1195.3	7408.5	396.2	276.3	1194.7	121.2	29027.4	7449.9	1397.00
8.69	4.33	6.20	3.27	.045	.050	.045	.000	1390.50	9801.91
.002891	500.	490.	480.	2	11	0	.00	281.98	10151.23

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SECNO	DEPTH	CWSEL	CRISW	WSELK	EG	HV	HL	OLOSS	L-BANK ELEV
Q	QLOB	QCH	QROB	ALOB	ACH	AROB	VOL	TWA	R-BANK ELEV
TIME	VLOB	VCH	VROB	XNL	XNCH	XNR	WTN	ELMIN	SSTA
SLOPE	XLOBL	XLCH	XLOBR	ITRIAL	IDC	ICONT	CORAR	TOPWID	ENDST

FLOW DISTRIBUTION FOR SECNO= 33.73 CWSEL= 1402.02

STA=	9802.	9814.	9855.	9881.	10103.	10151.
PER Q=	1.0	10.4	1.9	82.3	4.4	
AREA=	29.2	189.6	57.5	1194.7	121.2	
VEL=	3.0	4.9	3.0	6.2	3.3	
DEPTH=	2.4	4.6	2.2	7.7	2.5	

\*SECNO 33.820

3265 DIVIDED FLOW

33.820	15.71	1403.11	1395.32	.00	1403.58	.47	1.01	.01	1417.10
9000.0	7.9	8992.1	.0	9.8	1632.2	.0	29045.9	7452.5	1405.90
8.72	.81	5.51	.00	.045	.050	.000	.000	1387.40	9706.15
.001502	500.	500.	500.	2	14	0	.00	170.17	10061.22

FLOW DISTRIBUTION FOR SECNO= 33.82 CWSEL= 1403.11

STA=	9706.	9714.	9726.	10068.
PER Q=	.0	.1	99.9	
AREA=	4.0	5.8	1632.2	
VEL=	.8	.8	5.5	
DEPTH=	.5	.5	10.8	

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T1 AGUA FRIA RIVER FLOODPLAIN DELINEATION RE-STUDY  
T1 PREPARED FOR THE FLOOD CONTROL DISTRICT OF MARICOPA COUNTY (FCDMC #95-05)  
T1 PREPARED BY COE & VAN LOO CONSULTANTS, INC. (CVL #95-0067-01)  
T2 AGUA FRIA RIVER, GILA RIVER TO THE NEW WADDELL DAM  
T3 100-YEAR EVENT FLOODWAY CONDITION FILE NAME - H2REACH1

J1	ICHECK	INQ	NINV	IDIR	STRT	METRIC	HVINS	Q	WSEL	FQ
	0	3	0	0	0.003	0	0	0	917.21	0
J2	NPROF	IPLLOT	PRFVS	XSECV	XSECH	FN	ALLDC	IBW	CHNIM	ITRACE
	2	0	-1	0	0	0	-1	0	0	0

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SECNO	DEPTH	CWSEL	CRISW	WSELK	EG	HV	HL	OLOSS	L-BANK ELEV
Q	QLOB	QCH	QROB	ALOB	ACH	AROB	VOL	TWA	R-BANK ELEV
TIME	VLOB	VCH	VROB	XNL	XNCH	XNR	WTN	ELMIN	SSTA
SLOPE	XLOBL	XLCH	XLOBR	ITRIAL	IDC	ICONT	CORAR	TOPWID	ENDST

\*PROF 2

CRITICAL DEPTH TO BE CALCULATED AT ALL CROSS SECTIONS

CCHV= .100 CEHV= .300  
1490 NH CARD USED  
\*SECNO .160

3265 DIVIDED FLOW

3470 ENCROACHMENT STATIONS= 9300.0 11600.0 TYPE= 1 TARGET= 2300.000  
 AGUA FRIA DETAILED FDR PREPARED FOR THE FLOOD CONTROL DISTRICT OF  
 MARICOPA COUNTY BY COE & VAN LOO CONSULTANTS, INC., 1996.  
 THE CONTROL LINE ON THE MAIN CHANNEL OF THE AGUA FRIA RIVER IS  
 STATION 10,000. ALL SECTIONS ARE STATIONED IN RIVER MILES FROM THE  
 CONFLUENCE WITH THE GILA RIVER. ENCROACHMENT CARDS (ET) WERE USED  
 IN SOME CASES TO BETTER MODEL DEAD OR NON-EFFECTIVE FLOW AREAS.  
 CONSEQUENTLY, "SSTA" AND "ENDST" DO NOT REPRESENT THE ACTUAL FLOODING  
 LIMITS, AND THE DELINEATION WAS ESTABLISHED BASED ON THE CROSS SECTION  
 POINT ELEVATIONS AND THE TOPOGRAPHY. IN SOME CASES "TOPWID" DOES NOT  
 REPRESENT THE FULL WIDTH OF THE FLOODPLAIN DUE TO NON-EFFECTIVE FLOW  
 AREAS OR LOW ISLANDS WITHIN THE FLOODPLAIN. THE RUN WAS STARTED BASED  
 SLOPE-AREA METHOD. THE HIGH WATER IN THE GILA RIVER WAS NOT USED TO  
 START THE RUN, DUE TO THE DIFFERENCE IN THE TIME TO PEAK.  
 ENCROACHMENTS ARE PLACED ON THE UPSTREAM SECTION OF THE BRIDGES TO  
 REPRESENT THE 1:1 CONTRACTION OF FLOW. IN ADDITION, ENCROACHMENTS ARE  
 PLACED ON THE DOWNSTREAM SECTION OF THE BRIDGES TO REPRESENT THE 4:1  
 EXPANSION OF FLOW.

\*\*\*\*\*  
 \*\*\*\*\* BEGIN NONSTRUCTURAL DIKES \*\*\*\*\*  
 \*\*\*\*\* CONSIDERED NONEFFECTIVE \*\*\*\*\*  
 \*\*\*\*\*

.160	8.95	917.25	915.29	916.56	917.83	.58	.00	.00	911.80
50900.0	11217.2	21512.4	18170.4	2113.5	2725.3	5072.5	.0	.0	923.00
.00	5.31	7.89	3.58	.045	.035	.064	.000	908.30	9300.00
.003013	0.	0.	0.	0	19	3	.00	2253.86	11600.00

1490 NH CARD USED  
 \*SECNO .250

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SECNO	DEPTH	CWSEL	CRISW	WSELK	EG	HV	HL	OLOSS	L-BANK ELEV
Q	QLOB	QCH	QROB	ALOB	ACH	AROB	VOL	TWA	R-BANK ELEV
TIME	VLOB	VCH	VROB	XNL	XNCH	XNR	WTN	ELMIN	SSTA
SLOPE	XLOBL	XLCH	XLOBR	ITRIAL	IDC	ICONT	CORAR	TOPWID	ENDST

3265 DIVIDED FLOW

3470 ENCROACHMENT STATIONS= 9250.0 11600.0 TYPE= 1 TARGET= 2350.000

.250	7.90	918.80	917.31	918.11	919.45	.65	1.60	.02	913.50
50900.0	22357.8	15388.5	13153.8	3775.3	1699.3	5135.0	115.5	25.4	922.50
.02	5.92	9.06	2.56	.045	.035	.086	.000	910.90	9250.00
.003488	505.	495.	480.	2	19	0	.00	2282.18	11600.00

1490 NH CARD USED  
 \*SECNO .350

3265 DIVIDED FLOW

3470 ENCROACHMENT STATIONS= 9130.0 11690.0 TYPE= 1 TARGET= 2560.000

.350	8.97	920.37	918.80	919.61	920.93	.56	1.47	.01	915.10
50900.0	23597.8	15832.2	11470.0	4509.0	1856.6	5847.0	242.6	52.2	923.30
.05	5.23	8.53	1.96	.045	.035	.100	.000	911.40	9130.00
.002674	485.	485.	485.	0	10	0	.00	2529.57	11690.00

1490 NH CARD USED  
 \*SECNO .440

3265 DIVIDED FLOW

3470 ENCROACHMENT STATIONS= 8970.0 11640.0 TYPE= 1 TARGET= 2670.000

.440	8.96	921.76	919.76	920.88	922.19	.44	1.24	.01	916.70
50900.0	19382.5	23253.5	8264.0	4216.0	3562.5	4660.0	386.4	82.3	925.20
.08	4.60	6.53	1.77	.045	.035	.100	.000	912.80	8970.00
.002234	520.	505.	500.	2	14	0	.00	2637.86	11640.00

1490 NH CARD USED  
 \*SECNO .540

3265 DIVIDED FLOW

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SECNO	DEPTH	CWSEL	CRISW	WSELK	EG	HV	HL	OLOSS	L-BANK ELEV
Q	QLOB	QCH	QROB	ALOB	ACH	AROB	VOL	TWA	R-BANK ELEV
TIME	VLOB	VCH	VROB	XNL	XNCH	XNR	WTN	ELMIN	SSTA
SLOPE	XLOBL	XLCH	XLOBR	ITRIAL	IDC	ICONT	CORAR	TOPWID	ENDST

3470 ENCROACHMENT STATIONS= 8920.0 11540.0 TYPE= 1 TARGET= 2620.000

.540	9.19	922.89	921.14	921.96	923.34	.44	1.14	.00	917.20
------	------	--------	--------	--------	--------	-----	------	-----	--------

50900.0	23799.2	14893.1	12207.7	5113.1	1945.5	5361.1	532.0	112.5	927.50
.10	4.65	7.66	2.28	.045	.035	.080	.000	913.70	8920.00
.002217	530.	505.	495.	2	10	0	.00	2525.98	11540.00

1490 NH CARD USED  
\*SECNO .630

3265 DIVIDED FLOW

3470 ENCROACHMENT STATIONS=	8970.0	11440.0	TYPE=	1	TARGET=	2470.000			
.630	8.43	924.13	922.61	923.29	924.64	.51	1.28	.02	919.60
50900.0	17446.3	16146.3	17307.5	3814.7	1943.9	5299.8	668.3	140.9	929.00
.13	4.57	8.31	3.27	.045	.035	.069	.000	915.70	8970.00
.002877	525.	505.	490.	2	14	0	.00	2379.27	11440.00

1490 NH CARD USED  
\*SECNO .730

3265 DIVIDED FLOW

3470 ENCROACHMENT STATIONS=	8980.0	11280.0	TYPE=	1	TARGET=	2300.000			
.730	8.60	925.50	922.99	924.67	925.87	.37	1.22	.01	920.00
50900.0	21274.0	11016.0	18610.0	4739.5	1561.3	5333.2	798.3	167.3	928.80
.16	4.49	7.06	3.49	.045	.035	.061	.000	916.90	8980.00
.002087	510.	500.	490.	2	19	0	.00	2229.33	11280.00

1490 NH CARD USED  
\*SECNO .830

3265 DIVIDED FLOW

3470 ENCROACHMENT STATIONS=	8983.0	11150.0	TYPE=	1	TARGET=	2167.000			
.830	9.25	926.55	924.57	925.91	927.02	.47	1.12	.03	920.90
50900.0	23760.6	12298.0	14841.4	4857.1	1522.9	4218.1	924.6	192.2	925.90
.19	4.89	8.08	3.52	.045	.035	.058	.000	917.30	8983.00
.002479	495.	495.	495.	2	9	0	.00	2141.69	11150.00

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SECNO	DEPTH	CWSEL	CRISW	WSELK	EG	HV	HL	OLOSS	L-BANK ELEV
Q	QLOB	QCH	QROB	ALOB	ACH	AROB	VOL	TWA	R-BANK ELEV
TIME	VLOB	VCH	VROB	XNL	XNCH	XNR	WTN	ELMIN	SSTA
SLOPE	XLOBL	XLCH	XLOBR	ITRIAL	IDC	ICONT	CORAR	TOPWID	ENDST

1490 NH CARD USED  
\*SECNO .920

3265 DIVIDED FLOW

3470 ENCROACHMENT STATIONS=	9100.0	11130.0	TYPE=	1	TARGET=	2030.000			
.920	8.28	927.58	925.73	926.85	928.17	.59	1.11	.03	923.30
50900.0	13439.2	27664.7	9796.1	2676.3	3772.5	3104.7	1026.8	213.0	930.70
.21	5.02	7.33	3.16	.045	.035	.057	.000	919.30	9100.00
.002538	445.	440.	440.	1	19	0	.00	1962.40	11130.00

1490 NH CARD USED  
\*SECNO 1.010

3265 DIVIDED FLOW

3470 ENCROACHMENT STATIONS=	9300.0	11250.0	TYPE=	1	TARGET=	1950.000			
1.010	7.47	928.67	926.42	927.79	929.15	.48	.97	.01	924.90
50900.0	8187.6	31412.6	11299.8	1893.3	4892.4	3236.0	1125.7	232.6	931.40
.23	4.32	6.42	3.49	.045	.035	.050	.000	921.20	9300.00
.001950	440.	440.	440.	1	14	0	.00	1914.39	11250.00

1490 NH CARD USED  
\*SECNO 1.100

3265 DIVIDED FLOW

3470 ENCROACHMENT STATIONS=	9450.0	11220.0	TYPE=	1	TARGET=	1770.000			
1.100	10.07	929.57	927.00	928.81	930.08	.52	.92	.01	923.20
50900.0	6575.4	37672.9	6651.8	1500.4	5978.8	2080.2	1235.0	252.7	934.30
.25	4.38	6.30	3.20	.045	.035	.053	.000	919.50	9450.00
.001828	500.	490.	470.	2	5	0	.00	1707.79	11220.00

1490 NH CARD USED  
\*SECNO 1.170

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SECNO	DEPTH	CWSEL	CRISW	WSELK	EG	HV	HL	OLOSS	L-BANK ELEV
Q	QLOB	QCH	QROB	ALOB	ACH	AROB	VOL	TWA	R-BANK ELEV
TIME	VLOB	VCH	VROB	XNL	XNCH	XNR	WTN	ELMIN	SSTA
SLOPE	XLOBL	XLCH	XLOBR	ITRIAL	IDC	ICONT	CORAR	TOPWID	ENDST

3265 DIVIDED FLOW

3470 ENCROACHMENT STATIONS=	9400.0	11020.0	TYPE=	1	TARGET=	1620.000			
1.170	7.02	930.62	928.91	929.80	931.37	.75	1.22	.07	927.20
50900.0	6067.1	35274.3	9558.6	1595.1	4535.9	1923.2	1342.6	272.9	933.00
.28	3.80	7.78	4.97	.045	.035	.050	.000	923.60	9400.00
.002912	560.	540.	490.	2	11	0	.00	1594.13	11020.00

1490 NH CARD USED

\*SECNO 1.250

3265 DIVIDED FLOW

3470 ENCROACHMENT STATIONS=	9200.0	10700.0	TYPE=	1	TARGET=	1500.000			
1.250	7.49	931.89	930.68	931.02	933.02	1.12	1.54	.11	929.10
50900.0	6097.1	39440.0	5362.8	1789.3	4244.7	864.7	1425.8	290.0	933.60
.29	3.41	9.29	6.20	.045	.035	.050	.000	924.40	9200.00
.003458	480.	485.	490.	2	11	0	.00	1488.69	10700.00

1490 NH CARD USED

\*SECNO 1.330

3470 ENCROACHMENT STATIONS=	8853.0	10470.0	TYPE=	1	TARGET=	1617.000			
***** END NONSTRUCTURAL DIKES *****									
1.330	8.28	933.78	932.28	932.95	934.57	.79	1.52	.03	929.10
50900.0	18399.6	32380.3	120.1	4207.1	3909.0	43.7	1510.7	307.4	932.00
.31	4.37	8.28	2.75	.045	.035	.050	.000	925.50	8853.00
.002755	485.	495.	500.	2	15	0	.00	1617.00	10470.00

\*SECNO 1.400

3265 DIVIDED FLOW

3470 ENCROACHMENT STATIONS=	8550.0	10306.0	TYPE=	1	TARGET=	1756.000			
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SECNO	DEPTH	CWSEL	CRISW	WSELK	EG	HV	HL	OLOSS	L-BANK ELEV
Q	QLOB	QCH	QROB	ALOB	ACH	AROB	VOL	TWA	R-BANK ELEV
TIME	VLOB	VCH	VROB	XNL	XNCH	XNR	WTN	ELMIN	SSTA
SLOPE	XLOBL	XLCH	XLOBR	ITRIAL	IDC	ICONT	CORAR	TOPWID	ENDST

1.400	7.98	935.08	934.15	934.16	936.05	.96	1.43	.05	931.60
50900.0	16161.9	34738.1	.0	3812.7	3824.0	.1	1592.7	324.6	935.20
.33	4.24	9.08	.02	.045	.035	.050	.000	927.10	8550.00
.003520	430.	475.	485.	2	15	0	.00	1755.32	10306.00

\*SECNO 1.480

3302 WARNING: CONVEYANCE CHANGE OUTSIDE OF ACCEPTABLE RANGE, KRATIO = 1.49

3470 ENCROACHMENT STATIONS=	8370.0	10280.0	TYPE=	1	TARGET=	1910.000			
1.480	9.98	936.68	934.51	935.99	937.21	.53	1.12	.04	932.90
50900.0	11247.9	39648.8	3.4	3724.2	6178.9	3.4	1689.6	344.5	933.30
.35	3.02	6.42	1.00	.045	.035	.050	.000	926.70	8370.00
.001593	450.	505.	520.	2	8	0	.00	1910.00	10280.00

\*SECNO 1.560

3302 WARNING: CONVEYANCE CHANGE OUTSIDE OF ACCEPTABLE RANGE, KRATIO = 1.56

3470 ENCROACHMENT STATIONS=	8330.0	10173.0	TYPE=	1	TARGET=	1843.000			
1.560	11.24	937.34	932.38	936.55	937.68	.34	.45	.02	932.20
50900.0	12966.1	37933.9	.0	5401.1	7216.5	.0	1804.5	362.5	939.00
.38	2.40	5.26	.00	.045	.035	.000	.000	926.10	8330.00
.000656	370.	495.	515.	2	14	0	.00	1838.53	10168.53

\*SECNO 1.640

3470 ENCROACHMENT STATIONS= 8360.0 10312.0 TYPE= 1 TARGET= 1952.000  
 1.640 9.79 937.69 932.61 936.82 937.99 .30 .31 .00 931.30  
 50900.0 5463.1 45436.1 .9 2940.2 9927.3 1.7 1941.3 381.7 935.20  
 .41 1.86 4.58 .49 .045 .035 .050 .000 927.90 8360.00  
 .000610 380. 510. 540. 2 18 0 .00 1952.00 10312.00

\*SECNO 1.710

3470 ENCROACHMENT STATIONS= 8350.0 10285.0 TYPE= 1 TARGET= 1935.000  
 1.710 9.79 937.99 933.67 937.17 938.35 .36 .34 .02 935.80  
 50900.0 3012.7 47886.7 .6 1772.3 9690.5 1.2 2072.8 401.5 935.90  
 .44 1.70 4.94 .52 .045 .035 .050 .000 928.20 8350.00  
 .000832 370. 495. 525. 0 11 0 .00 1935.00 10285.00

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SECNO	DEPTH	CWSEL	CRISW	WSELK	EG	HV	HL	OLOSS	L-BANK ELEV
Q	QLOB	QCH	QROB	ALOB	ACH	AROB	VOL	TWA	R-BANK ELEV
TIME	VLOB	VCH	VROB	XNL	XNCH	XNR	WTN	ELMIN	SSTA
SLOPE	XLOBL	XLCH	XLOBR	ITRIAL	IDC	ICONT	CORAR	TOPWID	ENDST

\*SECNO 1.790

3470 ENCROACHMENT STATIONS= 8260.0 10253.0 TYPE= 1 TARGET= 1993.000  
 1.790 9.22 938.42 934.67 937.57 938.82 .40 .45 .01 936.40  
 50900.0 2334.6 48564.3 1.1 1406.7 9387.9 1.7 2192.1 420.2 936.30  
 .47 1.66 5.17 .66 .045 .035 .050 .000 929.20 8260.00  
 .001032 270. 500. 540. 2 11 0 .00 1993.00 10253.00

\*SECNO 1.870

3470 ENCROACHMENT STATIONS= 8190.0 10051.0 TYPE= 1 TARGET= 1861.000  
 \*\*\*\*\* BEGIN WEST BANK LEVEE \*\*\*\*\*  
 1.870 8.10 938.90 935.96 938.21 939.44 .54 .58 .04 934.40  
 50900.0 2054.1 48837.5 8.3 1070.5 8151.4 7.7 2293.5 436.8 931.20  
 .49 1.92 5.99 1.08 .045 .035 .050 .000 930.80 8190.00  
 .001563 200. 475. 510. 2 11 0 .00 1861.00 10051.00

\*SECNO 1.940

3470 ENCROACHMENT STATIONS= 8210.0 10063.3 TYPE= 1 TARGET= 1853.300  
 1.940 7.46 939.76 937.11 939.25 940.27 .50 .82 .00 938.20  
 50900.0 1780.8 49119.2 .0 850.3 8492.3 .0 2397.3 455.0 100000.00  
 .52 2.09 5.78 .00 .045 .035 .000 .000 932.30 8210.00  
 .001689 200. 520. 540. 2 14 0 .00 1849.14 10059.14

\*SECNO 2.020

3470 ENCROACHMENT STATIONS= 8410.0 10078.0 TYPE= 1 TARGET= 1668.000  
 2.020 7.87 940.57 938.68 940.05 941.24 .67 .93 .05 938.10  
 50900.0 3096.4 47803.6 .0 1047.0 7083.2 .0 2486.1 471.4 944.80  
 .54 2.96 6.75 .00 .045 .035 .000 .000 932.70 8410.00  
 .002458 220. 470. 475. 2 15 0 .00 1661.18 10071.18

\*SECNO 2.100

3470 ENCROACHMENT STATIONS= 8640.0 10166.0 TYPE= 1 TARGET= 1526.000  
 2.100 7.30 941.60 939.60 940.84 942.31 .71 1.06 .01 938.70  
 50900.0 2545.8 48354.2 .0 868.2 6982.2 .0 2563.3 486.0 946.70  
 .55 2.93 6.93 .00 .045 .035 .000 .000 934.30 8640.00  
 .002442 280. 440. 450. 2 14 0 .00 1519.46 10159.46

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SECNO	DEPTH	CWSEL	CRISW	WSELK	EG	HV	HL	OLOSS	L-BANK ELEV
Q	QLOB	QCH	QROB	ALOB	ACH	AROB	VOL	TWA	R-BANK ELEV
TIME	VLOB	VCH	VROB	XNL	XNCH	XNR	WTN	ELMIN	SSTA
SLOPE	XLOBL	XLCH	XLOBR	ITRIAL	IDC	ICONT	CORAR	TOPWID	ENDST

\*SECNO 2.180

3470 ENCROACHMENT STATIONS= 8920.0 10405.1 TYPE= 1 TARGET= 1485.100  
 2.180 8.14 942.54 940.26 941.75 943.18 .64 .86 .01 938.30  
 50900.0 5903.4 44996.6 .0 1696.2 6699.1 .0 2634.4 498.6 100000.00  
 .57 3.48 6.72 .00 .045 .035 .000 .000 934.40 8920.00  
 .002013 280. 400. 420. 2 15 0 .00 1479.69 10399.69

\*SECNO 2.250

```

3470 ENCROACHMENT STATIONS= 9000.0 10365.7 TYPE= 1 TARGET= 1365.700
2.250 8.43 943.43 941.77 942.68 944.33 .90 1.07 .08 938.30
50900.0 11282.2 39617.8 .0 2604.7 4770.9 .0 2711.7 511.6 100000.00
.59 4.33 8.30 .00 .045 .035 .000 .000 935.00 9000.00
.002834 260. 490. 510. 2 15 0 .00 1358.98 10358.98
    
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\*SECNO 2.330

```

3470 ENCROACHMENT STATIONS= 8980.0 10339.4 TYPE= 1 TARGET= 1359.400
2.330 8.61 944.81 942.54 943.98 945.50 .70 1.15 .02 940.30
50900.0 11450.3 39449.7 .0 2664.7 5448.6 .0 2792.2 525.2 100000.00
.61 4.30 7.24 .00 .045 .035 .000 .000 936.20 8980.00
.002184 380. 490. 490. 2 19 0 .00 1349.19 10329.19
    
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\*SECNO 2.410

```

3470 ENCROACHMENT STATIONS= 9180.0 10790.0 TYPE= 1 TARGET= 1610.000
2.410 8.48 945.88 943.85 944.94 946.52 .64 1.02 .01 941.60
50900.0 8490.0 39062.3 3347.7 2220.6 5541.7 969.2 2880.4 540.3 940.60
.63 3.82 7.05 3.45 .045 .035 .050 .000 937.40 9180.00
.002137 350. 500. 500. 2 19 0 .00 1610.00 10790.00
    
```

\*SECNO 2.510

```

3470 ENCROACHMENT STATIONS= 9320.0 10840.0 TYPE= 1 TARGET= 1520.000
2.510 8.19 946.89 944.19 946.07 947.45 .56 .92 .01 943.90
50900.0 2899.1 47649.1 351.8 971.2 7744.9 154.5 2979.1 557.6 943.70
.65 2.98 6.15 2.28 .045 .035 .050 .000 938.70 9320.00
.001653 510. 495. 345. 2 14 0 .00 1503.71 10823.71
    
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SECNO	DEPTH	CWSEL	CRISW	WSELK	EG	HV	HL	OLOSS	L-BANK ELEV
Q	QLOB	QCH	QROB	ALOB	ACH	AROB	VOL	TWA	R-BANK ELEV
TIME	VLOB	VCH	VROB	XLN	XLNCH	XNR	WTN	ELMIN	SSTA
SLOPE	XLOBL	XLCH	XLOBR	ITRIAL	IDC	ICONT	CORAR	TOPWID	ENDST

\*SECNO 2.600

```

3470 ENCROACHMENT STATIONS= 9300.0 11160.0 TYPE= 1 TARGET= 1860.000
2.600 8.23 947.83 945.24 947.12 948.26 .44 .80 .01 944.80
50900.0 1239.5 46006.3 3654.1 412.1 8389.0 1060.0 3086.0 576.5 943.60
.68 3.01 5.48 3.45 .040 .035 .040 .000 939.60 9300.00
.001554 640. 505. 230. 2 19 0 .00 1844.33 11144.33
    
```

\*SECNO 2.700

```

3470 ENCROACHMENT STATIONS= 9180.0 11238.0 TYPE= 1 TARGET= 2058.000
2.700 8.24 948.64 945.99 948.18 948.98 .34 .70 .01 945.20
50900.0 809.4 50090.6 .0 284.1 10646.0 .0 3204.7 598.8 100000.00
.71 2.85 4.71 .00 .040 .035 .000 .000 940.40 9180.00
.001289 790. 500. 265. 1 20 0 .00 2050.02 11230.02
    
```

\*SECNO 2.800

```

3470 ENCROACHMENT STATIONS= 9160.0 11222.0 TYPE= 1 TARGET= 2062.000
*****
***** EAST BANK LEVEE *****
***** CROSS SECTIONS 2.80 & 2.89 *****
*****
2.800 7.27 949.27 946.27 948.88 949.57 .30 .59 .00 943.40
50900.0 803.3 50096.7 .0 226.2 11351.8 .0 3333.7 622.3 100000.00
.74 3.55 4.41 .00 .040 .035 .000 .000 942.00 9160.00
.001074 460. 500. 390. 1 11 0 .00 2049.26 11209.26
    
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\*SECNO 2.890

```

3470 ENCROACHMENT STATIONS= 9200.0 11261.2 TYPE= 1 TARGET= 2061.200
*****
***** EAST BANK LEVEE *****
***** CROSS SECTIONS 2.80 & 2.89 *****
*****
2.890 7.02 949.82 946.99 949.51 950.15 .33 .57 .01 943.80
50900.0 13774.5 37125.5 .0 3010.8 8114.5 .0 3460.1 645.1 100000.00
.77 4.58 4.58 .00 .040 .035 .000 .000 942.80 9200.00
.001306 485. 485. 415. 1 11 0 .00 2048.14 11248.14
    
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SECNO	DEPTH	CWSEL	CRISW	WSELK	EG	HV	HL	OLOSS	L-BANK ELEV
Q	QLOB	QCH	QROB	ALOB	ACH	AROB	VOL	TWA	R-BANK ELEV
TIME	VLOB	VCH	VROB	XLN	XLNCH	XNR	WTN	ELMIN	SSTA

SLOPE	XLOBL	XLCH	XLOBR	ITRIAL	IDC	ICONT	CORAR	TOPWID	ENDST
*SECNO 2.990									
3470 ENCROACHMENT STATIONS=			9323.0	11260.5	TYPE=	1	TARGET=	1937.500	
2.990	8.13	950.43	947.08	950.15	950.75		.31	.60	948.60
50900.0	.3	50899.7	.0	.5	11321.3		.0	3591.5	668.3 100000.00
.80	.49	4.50	.00	.040	.035		.000	.000	942.30 9323.00
.001056	510.	510.	430.	2	14		0	.00	1923.36 11246.36

*SECNO 3.080									
3470 ENCROACHMENT STATIONS=			9393.0	11278.2	TYPE=	1	TARGET=	1885.200	
3.080	8.44	950.94	947.03	950.69	951.22		.28	.47	951.40
50900.0	.0	50900.0	.0	.0	12000.9		.0	3725.3	690.1 100000.00
.83	.00	4.24	.00	.000	.035		.000	.000	942.50 9395.80
.000837	550.	500.	380.	2	11		0	.00	1867.47 11263.28

\*SECNO 3.180

3265 DIVIDED FLOW

3470 ENCROACHMENT STATIONS=			9545.0	11211.1	TYPE=	1	TARGET=	1666.100	
3.180	7.97	951.37	948.32	951.18	951.78		.41	.52	952.20
50900.0	.0	50900.0	.0	.0	9859.3		.0	3850.8	710.2 100000.00
.86	.00	5.16	.00	.000	.035		.000	.000	943.40 9549.34
.001355	680.	500.	350.	2	11		0	.00	1638.41 11199.60

\*SECNO 3.270

3470 ENCROACHMENT STATIONS=			9692.0	11130.5	TYPE=	1	TARGET=	1438.500	
3.270	7.57	952.07	949.35	951.95	952.62		.55	.79	950.70
50900.0	.7	50899.3	.0	.8	8550.4		.0	3958.6	728.2 100000.00
.88	.88	5.95	.00	.040	.035		.000	.000	944.50 9692.00
.001812	575.	510.	420.	2	14		0	.00	1428.31 11120.31

\*SECNO 3.370

3470 ENCROACHMENT STATIONS=			9750.0	10970.3	TYPE=	1	TARGET=	1220.300	
3.370	9.54	952.94	949.97	952.88	953.58		.64	.94	952.00
50900.0	.0	50900.0	.0	.0	7943.1		.0	4055.1	743.6 100000.00
.90	.00	6.41	.00	.000	.035		.000	.000	943.40 9750.00
.001857	585.	510.	460.	2	11		0	.00	1202.39 10952.39

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SECNO	DEPTH	CWSEL	CRISW	WSELK	EG	HV	HL	OLOSS	L-BANK ELEV
Q	QLOB	QCH	QROB	ALOB	ACH	AROB	VOL	TWA	R-BANK ELEV
TIME	VLOB	VCH	VROB	XNL	XNCH	XNR	WTN	ELMIN	SSTA
SLOPE	XLOBL	XLCH	XLOBR	ITRIAL	IDC	ICONT	CORAR	TOPWID	ENDST

\*SECNO 3.400

3265 DIVIDED FLOW

3301 HV CHANGED MORE THAN HVINS

7185 MINIMUM SPECIFIC ENERGY

3720 CRITICAL DEPTH ASSUMED

3470 ENCROACHMENT STATIONS=			9730.0	10928.5	TYPE=	1	TARGET=	1198.500	
*****									
DIVIDED FLOW AT TRANSMISSION TOWER									
*****									
3.400	7.60	952.70	952.70	952.80	954.75		2.05	.66	952.00
50900.0	58.1	50841.9	.0	19.8	4424.3		.0	4080.0	748.3 100000.00
.91	2.94	11.49	.00	.040	.035		.000	.000	945.10 9730.00
.011623	175.	175.	175.	0	15		0	.00	1138.34 10914.34

\*SECNO 3.430

3301 HV CHANGED MORE THAN HVINS

3302 WARNING: CONVEYANCE CHANGE OUTSIDE OF ACCEPTABLE RANGE, KRATIO = 1.99

3470 ENCROACHMENT STATIONS=			9700.0	10873.4	TYPE=	1	TARGET=	1173.400	
3.430	8.83	954.83	952.81	954.78	955.72		.90	.86	952.80
50900.0	351.0	50549.0	.0	113.9	6625.1		.0	4101.2	752.6 100000.00
.91	3.08	7.63	.00	.040	.035		.000	.000	946.00 9700.00
.002949	165.	165.	160.	2	15		0	.00	1156.85 10856.85

\*SECNO 3.470

3470 ENCROACHMENT STATIONS=	9650.0	10811.2	TYPE=	1	TARGET=	1161.200			
3.470	9.30	955.40	953.07	955.39	956.28	.87	.55	.00	953.20
50900.0	673.5	50226.5	.0	237.5	6654.2	.0	4132.5	757.9	100000.00
.92	2.84	7.55	.00	.040	.035	.000	.000	946.10	9650.00
.002594	200.	200.	200.	3	15	0	.00	1147.39	10797.39

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SECNO	DEPTH	CWSEL	CRISW	WSELK	EG	HV	HL	OLOSS	L-BANK ELEV
Q	QLOB	QCH	QROB	ALOB	ACH	AROB	VOL	TWA	R-BANK ELEV
TIME	VLOB	VCH	VROB	XNL	XNCH	XNR	WTN	ELMIN	SSTA
SLOPE	XLOBL	XLCH	XLOBR	ITRIAL	IDC	ICONT	CORAR	TOPWID	ENDST

\*SECNO 3.550

3470 ENCROACHMENT STATIONS=	9540.0	10684.5	TYPE=	1	TARGET=	1144.500			
3.550	8.43	956.43	954.74	956.41	957.47	1.04	1.14	.05	952.30
50900.0	3752.9	47147.1	.0	840.0	5613.3	.0	4193.0	768.2	100000.00
.94	4.47	8.40	.00	.040	.035	.000	.000	948.00	9540.00
.003215	395.	395.	395.	2	19	0	.00	1132.88	10672.88

\*SECNO 3.640

3470 ENCROACHMENT STATIONS=	9430.0	10593.0	TYPE=	1	TARGET=	1163.000			
3.640	9.10	957.90	956.14	957.84	959.27	1.36	1.70	.10	963.20
50900.0	.0	50900.0	.0	.0	5429.0	.0	4258.5	779.0	100000.00
.95	.00	9.38	.00	.000	.035	.000	.000	948.80	9764.82
.003934	480.	480.	480.	2	15	0	.00	819.30	10584.12

\*SECNO 3.690

3470 ENCROACHMENT STATIONS=	9430.0	10575.0	TYPE=	1	TARGET=	1145.000			
3.690	7.99	958.99	957.84	958.97	960.37	1.38	1.10	.00	960.00
50900.0	.0	50900.0	.0	.0	5408.4	.0	4288.3	784.1	100000.00
.96	.00	9.41	.00	.000	.035	.000	.000	951.00	9530.26
.005393	240.	240.	240.	2	15	0	.00	1030.15	10560.41

\*SECNO 3.729

3301 HV CHANGED MORE THAN HVINS

3302 WARNING: CONVEYANCE CHANGE OUTSIDE OF ACCEPTABLE RANGE, KRATIO = 2.43

3470 ENCROACHMENT STATIONS=	9419.0	10604.0	TYPE=	1	TARGET=	1185.000			
3.729	8.32	960.52	956.10	960.52	960.95	.43	.49	.10	968.00
50900.0	.0	50900.0	.0	.0	9727.4	.0	4334.3	790.8	967.20
.97	.00	5.23	.00	.000	.035	.000	.000	952.20	9422.37
.000916	260.	265.	270.	2	11	0	.00	1173.96	10596.33

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SECNO	DEPTH	CWSEL	CRISW	WSELK	EG	HV	HL	OLOSS	L-BANK ELEV
Q	QLOB	QCH	QROB	ALOB	ACH	AROB	VOL	TWA	R-BANK ELEV
TIME	VLOB	VCH	VROB	XNL	XNCH	XNR	WTN	ELMIN	SSTA
SLOPE	XLOBL	XLCH	XLOBR	ITRIAL	IDC	ICONT	CORAR	TOPWID	ENDST

CCHV= .300 CEHV= .500

\*SECNO 3.734

3370 NORMAL BRIDGE, NRD= 61 MIN ELTRD= 971.10 MAX ELLC= 967.60

\*\*\*\*\*  
\*\*\*\*\* BUCKEYE ROAD \*\*\*\*\*  
\*\*\*\*\* LOW CHORD = 967.4 \*\*\*\*\*  
\*\*\*\*\*

3.734	8.21	960.51	956.40	960.50	961.02	.51	.03	.04	967.50
50900.0	.0	50900.0	.0	.0	8851.9	.0	4339.7	791.5	967.60
.97	.00	5.75	.00	.000	.035	.000	.000	952.30	9407.84
.001456	25.	25.	25.	2	18	0	-810.97	1184.92	10592.77

\*SECNO 3.747

3370 NORMAL BRIDGE, NRD= 61 MIN ELTRD= 971.10 MAX ELLC= 967.60

3.747	8.33	960.63	956.40	960.62	961.13	.50	.10	.00	967.50
50900.0	.0	50900.0	.0	.0	8980.8	.0	4354.0	793.4	967.60
.98	.00	5.67	.00	.000	.035	.000	.000	952.30	9407.73
.001392	70.	70.	70.	2	18	0	-822.79	1185.15	10592.88

```
*SECNO 3.757
3.757      8.64   960.74   956.27   960.73   961.20      .46      .06      .01   966.50
50900.0    .0   50900.0    .0      .0      9369.8      .0   4364.5   794.7   967.70
.98        .00    5.43      .00      .000    .035      .000    .000   952.10  9436.77
.000959   50.    50.      50.      2       8       0       .00  1110.65 10547.41
```

\*SECNO 3.767

3265 DIVIDED FLOW

3302 WARNING: CONVEYANCE CHANGE OUTSIDE OF ACCEPTABLE RANGE, KRATIO = .59

3370 NORMAL BRIDGE, NRD= 76 MIN ELTRD= 970.90 MAX ELLC= 970.90

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\*\*\*\*\* SO. PACIFIC R.R. \*\*\*\*\*  
\*\*\*\*\* LOW CHORD = 966.1 \*\*\*\*\*  
\*\*\*\*\*

```
3.767      7.76   960.66   957.45   960.65   961.43      .77      .08      .16   966.90
50900.0    .0   50900.0    .0      .0      7223.8      .0   4374.1   795.9   970.90
.98        .00    7.05      .00      .000    .035      .000    .000   952.90  9441.21
.002777   50.    50.      50.      2       15      0      -826.27 1053.60 10559.14
```

\*SECNO 3.770

3265 DIVIDED FLOW

3370 NORMAL BRIDGE, NRD= 76 MIN ELTRD= 970.90 MAX ELLC= 970.90

```
3.770      7.83   960.73   957.45   960.72   961.49      .76      .05      .00   966.90
50900.0    .0   50900.0    .0      .0      7293.6      .0   4377.4   796.4   970.90
.98        .00    6.98      .00      .000    .035      .000    .000   952.90  9441.05
.002699   20.    20.      20.      2       15      0      -834.14 1053.91 10559.28
```

CCHV= .100 CEHV= .300

\*SECNO 3.780

3302 WARNING: CONVEYANCE CHANGE OUTSIDE OF ACCEPTABLE RANGE, KRATIO = 1.75

```
3.780      8.11   961.01   957.16   961.01   961.56      .55      .05      .02   968.00
52000.0    .0   52000.0    .0      .0      8761.3      .0   4383.8   797.3   968.00
.98        .00    5.94      .00      .000    .030      .000    .000   952.90  9453.57
.000919   35.    35.      35.      2       11      0       .00  1109.93 10563.50
```

\*SECNO 3.800

```
3.800      8.03   961.13   957.35   961.12   961.68      .55      .12      .00   967.50
52000.0    .0   52000.0    .0      .0      8725.2      .0   4408.9   800.5   968.20
.99        .00    5.96      .00      .000    .030      .000    .000   953.10  9450.25
.000945   125.   125.      125.      2       11      0       .00  1123.24 10573.49
```

\*SECNO 3.810

3265 DIVIDED FLOW

```
3.810      7.81   961.11   957.79   961.10   961.81      .70      .09      .04   967.50
52000.0    .0   52000.0    .0      .0      7747.2      .0   4424.1   802.5   968.50
.99        .00    6.71      .00      .000    .030      .000    .000   953.30  9456.06
.001254   85.    80.      75.      2       11      0       .00  1025.17 10566.48
```

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SECNO	DEPTH	CWSEL	CRIWS	WSELK	EG	HV	HL	GLOSS	L-BANK ELEV
Q	QLOB	QCH	QROB	ALOB	ACH	AROB	VOL	TWA	R-BANK ELEV
TIME	VLOB	VCH	VROB	XNL	XNCH	XNR	WTN	ELMIN	SSTA
SLOPE	XLOBL	XLCH	XLOBR	ITRIAL	IDC	ICONT	CORAR	TOPWID	ENDST

\*SECNO 3.830

```
3.830      8.62   961.42   957.43   961.41   961.94      .52      .11      .02   968.00
52000.0    .0   52000.0    .0      .0      9016.2      .0   4444.3   805.1   968.20
1.00      .00    5.77      .00      .000    .030      .000    .000   952.80  9434.54
.000861   105.   105.      105.      2       14      0       .00  1135.19 10569.74
```

\*SECNO 3.930

```
3.930      8.34   961.84   958.22   961.84   962.42      .58      .47      .02   969.10
52000.0    .0   52000.0    .0      .0      8522.2      .0   4544.9   818.0   970.60
1.02      .00    6.10      .00      .000    .030      .000    .000   953.50  9453.42
```

.001010	500.	500.	500.	2	11	0	.00	1112.23	10565.65
*SECNO 4.020									
4.020	8.47	962.37	958.33	962.36	962.89	.52	.46	.01	971.50
52000.0	.0	52000.0	.0	.0	8968.6	.0	4645.3	830.7	970.60
1.04	.00	5.80	.00	.000	.030	.000	.000	953.90	9452.82
.000852	500.	500.	500.	2	11	0	.00	1112.04	10564.86
*SECNO 4.040									
3265 DIVIDED FLOW									
4.040	7.83	962.33	959.07	962.33	963.05	.72	.10	.06	972.20
52000.0	.0	52000.0	.0	.0	7643.4	.0	4664.4	833.2	971.10
1.05	.00	6.80	.00	.000	.030	.000	.000	954.50	9461.15
.001294	100.	100.	100.	2	11	0	.00	1013.63	10572.38
*SECNO 4.060									
4.060	7.71	962.61	959.08	962.61	963.20	.59	.14	.01	973.40
52000.0	.0	52000.0	.0	.0	8417.5	.0	4686.5	836.1	971.60
1.05	.00	6.18	.00	.000	.030	.000	.000	954.90	9454.74
.001053	120.	120.	120.	2	11	0	.00	1112.43	10567.17
*SECNO 4.092									
4.092	7.59	962.79	959.31	962.78	963.39	.60	.18	.00	973.30
52000.0	.0	52000.0	.0	.0	8363.6	.0	4719.2	840.5	973.00
1.06	.00	6.22	.00	.000	.030	.000	.000	955.20	9454.52
.001076	170.	170.	170.	2	11	0	.00	1112.00	10566.52

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SECNO	DEPTH	CWSEL	CRISW	WSELK	EG	HV	HL	OLOSS	L-BANK ELEV
Q	QLOB	QCH	QROB	ALOB	ACH	AROB	VOL	TWA	R-BANK ELEV
TIME	VLOB	VCH	VROB	XNL	XNCH	XNR	WTN	ELMIN	SSTA
SLOPE	XLOBL	XLCH	XLOBR	ITRIAL	IDC	ICONT	CORAR	TOPWID	ENDST

\*SECNO 4.094

3301 HV CHANGED MORE THAN HVINS

7185 MINIMUM SPECIFIC ENERGY  
3720 CRITICAL DEPTH ASSUMED

4.094	4.11	962.61	962.61	962.61	964.67	2.06	.02	.44	973.30
52000.0	.0	52000.0	.0	.0	4513.9	.0	4720.7	840.7	973.00
1.06	.00	11.52	.00	.000	.030	.000	.000	958.50	9458.06
.008313	10.	10.	10.	0	11	0	.00	1105.60	10563.66

\*SECNO 4.160

3301 HV CHANGED MORE THAN HVINS

3302 WARNING: CONVEYANCE CHANGE OUTSIDE OF ACCEPTABLE RANGE, KRATIO = 2.40

4.160	7.84	965.04	962.20	965.04	965.75	.71	.95	.13	973.60
52000.0	.0	52000.0	.0	.0	7669.2	.0	4766.9	849.1	974.30
1.07	.00	6.78	.00	.000	.030	.000	.000	957.20	9461.40
.001447	330.	330.	330.	2	11	0	.00	1120.20	10581.59

\*SECNO 4.260

4.260	8.75	965.75	963.02	965.75	966.50	.74	.73	.01	975.70
52000.0	.0	52000.0	.0	.0	7530.1	.0	4853.2	861.8	974.40
1.09	.00	6.91	.00	.000	.030	.000	.000	957.00	9427.01
.001523	495.	495.	495.	3	15	0	.00	1113.03	10540.04

\*SECNO 4.270

3265 DIVIDED FLOW

4.270	8.78	965.88	962.95	965.88	966.66	.78	.15	.01	974.90
52000.0	.0	52000.0	.0	.0	7317.4	.0	4870.3	864.3	974.40
1.10	.00	7.11	.00	.000	.030	.000	.000	957.10	9458.96
.001499	100.	100.	100.	2	14	0	.00	1016.78	10573.50

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SECNO	DEPTH	CWSEL	CRISW	WSELK	EG	HV	HL	OLOSS	L-BANK ELEV
Q	QLOB	QCH	QROB	ALOB	ACH	AROB	VOL	TWA	R-BANK ELEV
TIME	VLOB	VCH	VROB	XNL	XNCH	XNR	WTN	ELMIN	SSTA
SLOPE	XLOBL	XLCH	XLOBR	ITRIAL	IDC	ICONT	CORAR	TOPWID	ENDST

```
*SECNO 4.300
 4.300      8.59   966.19   962.92   966.19   966.83   .64   .15   .01   974.80
52000.0    .0   52000.0    .0   .0   8127.5   .0   4890.7   867.1   974.90
 1.10      .00    6.40    .00    .000   .030   .000   .000   957.60   9467.63
.001183    115.   115.   115.   2   14   0   .00   1113.12  10580.75
```

```
*SECNO 4.390
 4.390      9.17   966.77   963.29   966.77   967.37   .60   .54   .00   976.10
52000.0    .0   52000.0    .0   .0   8390.9   .0   4981.7   879.4   976.20
 1.12      .00    6.20    .00    .000   .030   .000   .000   957.60   9452.43
.001071    515.   480.   445.   2   14   0   .00   1119.10  10571.53
```

```
*SECNO 4.480
 4.480      9.53   967.33   963.38   967.33   967.86   .53   .48   .01   978.30
52000.0    .0   52000.0    .0   .0   8893.4   .0   5080.9   892.2   975.70
 1.15      .00    5.85    .00    .000   .030   .000   .000   957.80   9451.96
.000881    535.   500.   465.   0   14   0   .00   1118.08  10570.05
```

\*SECNO 4.500

3265 DIVIDED FLOW

```
 4.500      9.58   967.38   963.38   967.38   967.98   .60   .10   .02   978.40
52000.0    .0   52000.0    .0   .0   8373.7   .0   5102.7   894.9   975.90
 1.15      .00    6.21    .00    .000   .030   .000   .000   957.80   9453.77
.000950    110.   110.   110.   2   11   0   .00   1010.03  10565.56
```

```
*SECNO 4.520
 4.520      9.57   967.57   963.59   967.57   968.10   .53   .11   .01   976.50
52000.0    .0   52000.0    .0   .0   8872.3   .0   5126.4   897.8   976.00
 1.16      .00    5.86    .00    .000   .030   .000   .000   958.00   9450.06
.000877    115.   120.   125.   2   14   0   .00   1106.92  10556.97
```

```
*SECNO 4.600
 4.600      9.85   967.95   963.87   967.95   968.47   .52   .36   .00   978.90
52000.0    .0   52000.0    .0   .0   9007.8   .0   5213.6   908.6   976.90
 1.18      .00    5.77    .00    .000   .030   .000   .000   958.10   9459.72
.000838    430.   425.   420.   0   14   0   .00   1111.27  10571.00
```

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```
SECNO DEPTH CWSEL CRIWS WSELK EG HV HL CLOSS L-BANK ELEV
Q QLOB QCH QROB ALOB ACH AROB VOL TWA R-BANK ELEV
TIME VLOB VCH VROB XNL XNCH XNR WTN ELMIN SSTA
SLOPE XLOBL XLCH XLOBR ITRIAL IDC ICONT CORAR TOPWID ENDST
```

```
*SECNO 4.700
 4.700      9.26   968.36   964.68   968.36   968.93   .57   .45   .02   978.40
52000.0    .0   52000.0    .0   .0   8579.6   .0   5314.6   921.4   978.80
 1.20      .00    6.06    .00    .000   .030   .000   .000   959.10   9460.50
.000983    500.   500.   500.   1   11   0   .00   1107.42  10567.92
```

\*SECNO 4.754

3370 NORMAL BRIDGE, NRD= 44 MIN ELTRD= 988.10 MAX ELLC= 988.10

3495 OVERBANK AREA ASSUMED NON-EFFECTIVE, ELLEA= 988.10 ELREA= 981.20

```
*****
***** VAN BUREN *****
***** LOW CHORD = 980.6 *****
*****
```

```
 4.754      8.28   968.58   964.65   968.58   969.18   .60   .24   .01   988.10
52000.0    .0   52000.0    .0   .0   8351.9   .0   5358.3   927.1   981.20
 1.21      .00    6.23    .00    .000   .030   .000   .000   960.30   9438.46
.001154    150.   225.   310.   0   26   0   -887.65  1123.93  10562.39
```

\*SECNO 4.759

3370 NORMAL BRIDGE, NRD= 44 MIN ELTRD= 988.10 MAX ELLC= 988.10

3495 OVERBANK AREA ASSUMED NON-EFFECTIVE, ELLEA= 988.10 ELREA= 981.20

```
 4.759      8.39   968.69   964.65   968.69   969.27   .59   .09   .00   988.10
52000.0    .0   52000.0    .0   .0   8468.2   .0   5373.2   929.1   981.20
 1.22      .00    6.14    .00    .000   .030   .000   .000   960.30   9438.36
.001105    77.   77.   77.   2   26   0   -899.96  1124.12  10562.48
```

\*SECNO 4.790

3302 WARNING: CONVEYANCE CHANGE OUTSIDE OF ACCEPTABLE RANGE, KRATIO = .70

4.790	7.65	968.75	966.78	968.75	969.68	.94	.31	.11	980.20
52000.0	.0	52000.0	.0	.0	6687.1	.0	5408.0	934.3	980.80
1.22	.00	7.78	.00	.000	.030	.000	.000	961.10	9458.38
.002270	280.	200.	110.	2	19	0	.00	1115.25	10573.63

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SECNO	DEPTH	CWSEL	CRISW	WSELK	EG	HV	HL	OLOSS	L-BANK ELEV
Q	QLOB	QCH	QROB	ALOB	ACH	AROB	VOL	TWA	R-BANK ELEV
TIME	VLOB	VCH	VROB	XNL	XNCH	XNR	WTN	ELMIN	SSTA
SLOPE	XLOBL	XLCH	XLOBR	ITRIAL	IDC	ICONT	CORAR	TOPWID	ENDST

\*SECNO 4.890

4.890	8.09	969.89	967.58	969.89	970.68	.79	.99	.01	982.30
52000.0	.0	52000.0	.0	.0	7273.2	.0	5485.7	947.0	982.00
1.24	.00	7.15	.00	.000	.030	.000	.000	961.80	9396.01
.001829	455.	485.	510.	2	19	0	.00	1169.84	10565.86

\*SECNO 4.980

4.980	8.08	970.88	968.06	970.88	971.50	.62	.80	.02	983.50
52000.0	.0	52000.0	.0	.0	8198.0	.0	5577.1	961.3	985.30
1.26	.00	6.34	.00	.000	.030	.000	.000	962.80	9362.94
.001342	515.	515.	520.	2	14	0	.00	1250.71	10613.65

\*SECNO 5.000

3265 DIVIDED FLOW

5.000	7.58	970.98	968.00	970.98	971.63	.65	.12	.01	983.30
52000.0	.0	52000.0	.0	.0	8052.6	.0	5593.6	963.7	985.70
1.27	.00	6.46	.00	.000	.030	.000	.000	963.40	9358.10
.001310	90.	88.	85.	2	11	0	.00	1169.86	10622.12

\*SECNO 5.020

5.020	7.00	971.10	968.63	971.10	971.78	.67	.14	.01	983.20
52000.0	.0	52000.0	.0	.0	7891.3	.0	5611.9	966.6	985.00
1.27	.00	6.59	.00	.000	.030	.000	.000	964.10	9355.88
.001574	100.	100.	100.	0	14	0	.00	1281.89	10637.77

\*SECNO 5.100

5.100	6.58	971.78	970.21	971.78	972.66	.88	.82	.06	985.30
52000.0	.0	52000.0	.0	.0	6891.1	.0	5681.4	978.9	985.90
1.29	.00	7.55	.00	.000	.030	.000	.000	965.20	9322.67
.002635	405.	410.	415.	2	19	0	.00	1344.91	10667.57

\*SECNO 5.150

5.150	5.08	972.48	971.86	972.48	973.77	1.29	.98	.12	986.00
52000.0	.0	52000.0	.0	.0	5711.8	.0	5721.2	987.5	986.00
1.30	.00	9.10	.00	.000	.030	.000	.000	967.40	9306.95
.005136	215.	275.	330.	2	19	0	.00	1388.65	10695.61

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SECNO	DEPTH	CWSEL	CRISW	WSELK	EG	HV	HL	OLOSS	L-BANK ELEV
Q	QLOB	QCH	QROB	ALOB	ACH	AROB	VOL	TWA	R-BANK ELEV
TIME	VLOB	VCH	VROB	XNL	XNCH	XNR	WTN	ELMIN	SSTA
SLOPE	XLOBL	XLCH	XLOBR	ITRIAL	IDC	ICONT	CORAR	TOPWID	ENDST

\*SECNO 5.201

5.201	4.81	973.91	972.62	973.91	974.85	.94	1.05	.03	987.00
52000.0	.0	52000.0	.0	.0	6680.4	.0	5759.6	996.2	987.00
1.31	.00	7.78	.00	.000	.030	.000	.000	969.10	9304.89
.003061	180.	270.	360.	2	19	0	.00	1392.04	10696.92

\*SECNO 5.203

3301 HV CHANGED MORE THAN HVINS

7185 MINIMUM SPECIFIC ENERGY

3720 CRITICAL DEPTH ASSUMED

5.203	3.52	973.52	973.52	973.52	975.29	1.77	.05	.25	987.00
52000.0	.0	52000.0	.0	.0	4876.1	.0	5760.9	996.5	987.00
1.31	.00	10.66	.00	.000	.030	.000	.000	970.00	9306.07
.008712	10.	10.	10.	0	15	0	.00	1389.49	10695.56

\*SECNO 5.250

3301 HV CHANGED MORE THAN HVINS

3302 WARNING: CONVEYANCE CHANGE OUTSIDE OF ACCEPTABLE RANGE, KRATIO = 1.49

5.250	5.43	975.63	974.67	975.63	976.73	1.10	1.38	.07	987.90
52000.0	.0	52000.0	.0	.0	6165.1	.0	5792.0	1004.3	996.10
1.31	.00	8.43	.00	.000	.030	.000	.000	970.20	9308.63
.003940	265.	245.	220.	1	11	0	.00	1377.96	10686.59

\*SECNO 5.270

3265 DIVIDED FLOW

5.270	5.33	976.03	975.21	976.03	977.31	1.28	.53	.05	987.20
52000.0	.0	52000.0	.0	.0	5734.1	.0	5809.1	1008.1	989.00
1.32	.00	9.07	.00	.000	.030	.000	.000	970.70	9329.95
.004504	125.	125.	125.	2	15	0	.00	1266.62	10659.78

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SECNO	DEPTH	CWSEL	CRISW	WSELK	EG	HV	HL	OLOSS	L-BANK ELEV
Q	QLOB	QCH	QROB	ALOB	ACH	AROB	VOL	TWA	R-BANK ELEV
TIME	VLOB	VCH	VROB	XNL	XNCH	XNR	WTN	ELMIN	SSTA
SLOPE	XLOBL	XLCH	XLOBR	ITRIAL	IDC	ICONT	CORAR	TOPWID	ENDST

\*SECNO 5.290

3370 NORMAL BRIDGE, NRD= 82 MIN ELTRD= 994.50 MAX ELLC= 997.70

\*\*\*\*\*  
\*\*\*\* I-10 EAST BOUND \*\*\*\*  
\*\*\*\* LOW CHORD = 986.4 \*\*\*\*  
\*\*\*\*\*

5.290	5.45	976.95	975.19	976.95	977.80	.85	.44	.04	986.40
52000.0	.0	52000.0	.0	.0	7030.2	.0	5827.4	1011.9	997.70
1.32	.00	7.40	.00	.000	.030	.000	.000	971.50	9267.73
.002866	115.	125.	150.	2	21	0	-479.02	1385.94	10653.67

\*SECNO 5.305

3370 NORMAL BRIDGE, NRD= 82 MIN ELTRD= 994.50 MAX ELLC= 997.70

5.305	5.68	977.18	975.19	977.18	977.96	.78	.16	.01	986.40
52000.0	.0	52000.0	.0	.0	7315.0	.0	5837.3	1013.8	997.70
1.32	.00	7.11	.00	.000	.030	.000	.000	971.50	9267.33
.002531	60.	60.	60.	1	21	0	-498.43	1386.66	10653.99

\*SECNO 5.317

3370 NORMAL BRIDGE, NRD= 82 MIN ELTRD= 994.50 MAX ELLC= 997.70

\*\*\*\*\*  
\*\*\*\* I-10 WEST BOUND \*\*\*\*  
\*\*\*\* LOW CHORD = 986.4 \*\*\*\*  
\*\*\*\*\*

5.317	5.58	977.28	975.51	977.28	978.17	.89	.18	.03	986.40
54400.0	.0	54400.0	.0	.0	7201.5	.0	5848.1	1015.8	997.70
1.33	.00	7.55	.00	.000	.030	.000	.000	971.70	9267.36
.002909	65.	65.	65.	2	21	0	-490.71	1386.60	10653.96

\*SECNO 5.328

3370 NORMAL BRIDGE, NRD= 82 MIN ELTRD= 994.50 MAX ELLC= 997.70

5.328	5.83	977.53	975.51	977.53	978.34	.81	.16	.01	986.40
54400.0	.0	54400.0	.0	.0	7517.6	.0	5858.2	1017.8	997.70
1.33	.00	7.24	.00	.000	.030	.000	.000	971.70	9266.91
.002543	60.	60.	60.	2	21	0	-512.25	1387.41	10654.33

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SECNO	DEPTH	CWSEL	CRISW	WSELK	EG	HV	HL	OLOSS	L-BANK ELEV
Q	QLOB	QCH	QROB	ALOB	ACH	AROB	VOL	TWA	R-BANK ELEV
TIME	VLOB	VCH	VROB	XNL	XNCH	XNR	WTN	ELMIN	SSTA
SLOPE	XLOBL	XLCH	XLOBR	ITRIAL	IDC	ICONT	CORAR	TOPWID	ENDST

\*SECNO 5.380

5.380	6.76	978.16	976.59	978.16	979.12	.96	.73	.04	987.70
54400.0	.0	54400.0	.0	.0	6919.5	.0	5904.6	1026.4	988.40
1.34	.00	7.86	.00	.000	.030	.000	.000	971.40	9351.35
.002700	120.	280.	460.	2	11	0	.00	1292.39	10643.74

\*SECNO 5.480

3470 ENCROACHMENT STATIONS=	9310.0	10594.0	TYPE=	1	TARGET=	1284.000			
5.480	6.85	979.55	977.34	979.55	980.35	.80	1.21	.02	973.20
54400.0	254.1	54145.9	.0	63.5	7549.4	.0	5994.5	1042.1	988.80
1.36	4.00	7.17	.00	.040	.030	.000	.000	972.70	9310.00
.001902	250.	540.	700.	2	19	0	.00	1256.16	10566.16

\*SECNO 5.510

3265 DIVIDED FLOW

3470 ENCROACHMENT STATIONS=	9320.0	10584.0	TYPE=	1	TARGET=	1264.000			
5.510	6.97	979.67	978.19	979.67	980.81	1.14	.36	.10	973.40
54400.0	127.3	54272.7	.0	31.3	6321.7	.0	6018.5	1046.3	990.10
1.36	4.06	8.59	.00	.040	.030	.000	.000	972.70	9320.00
.003057	150.	150.	100.	2	15	0	.00	1138.12	10554.65

\*SECNO 5.540

3470 ENCROACHMENT STATIONS=	9330.0	10562.0	TYPE=	1	TARGET=	1232.000			
5.540	7.61	980.21	978.57	980.21	981.22	1.01	.40	.01	972.60
54400.0	390.0	54010.0	.0	76.1	6679.3	.0	6039.6	1050.0	988.40
1.37	5.13	8.09	.00	.040	.030	.000	.000	972.60	9330.00
.002703	130.	140.	150.	2	15	0	.00	1209.04	10539.04

\*SECNO 5.650

5.650	8.73	981.63	978.75	981.63	982.37	.74	1.12	.03	987.40
54400.0	.0	54400.0	.0	.0	7881.6	.0	6137.0	1065.6	993.20
1.39	.00	6.90	.00	.000	.030	.000	.000	972.90	9419.23
.001457	580.	580.	580.	2	15	0	.00	1126.80	10546.03

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SECNO	DEPTH	CWSEL	CRISW	WSELK	EG	HV	HL	OLOSS	L-BANK ELEV
Q	QLOB	QCH	QROB	ALOB	ACH	AROB	VOL	TWA	R-BANK ELEV
TIME	VLOB	VCH	VROB	XNL	XNCH	XNR	WTN	ELMIN	SSTA
SLOPE	XLOBL	XLCH	XLOBR	ITRIAL	IDC	ICONT	CORAR	TOPWID	ENDST

\*SECNO 5.689

3370 NORMAL BRIDGE, NRD= 40 MIN ELTRD= 996.90 MAX ELLC= 996.80

\*\*\*\*\*  
 \*\*\*\*\* MCDOWELL ROAD \*\*\*\*\*  
 \*\*\*\*\* LOW CHORD = 990.8 \*\*\*\*\*  
 \*\*\*\*\*

5.689	8.22	982.07	978.18	982.07	982.66	.59	.27	.01	990.80
54400.0	.0	54400.0	.0	.0	8811.9	.0	6177.3	1071.1	990.80
1.40	.00	6.17	.00	.000	.030	.000	.000	973.85	9385.82
.001135	210.	210.	210.	0	18	0	-550.40	1152.46	10538.28

\*SECNO 5.700

3370 NORMAL BRIDGE, NRD= 40 MIN ELTRD= 996.90 MAX ELLC= 996.80

5.700	8.29	982.14	978.18	982.14	982.73	.58	.07	.00	990.80
54400.0	.0	54400.0	.0	.0	8890.8	.0	6189.5	1072.7	990.80
1.41	.00	6.12	.00	.000	.030	.000	.000	973.85	9385.70
.001103	60.	60.	60.	0	18	0	-555.30	1152.70	10538.40

\*SECNO 5.750

5.750	8.74	982.44	979.31	982.44	983.13	.70	.37	.04	990.30
54400.0	.0	54400.0	.0	.0	8112.6	.0	6250.0	1080.7	989.20
1.42	.00	6.71	.00	.000	.030	.000	.000	973.70	9452.74
.001312	310.	310.	310.	2	19	0	.00	1119.25	10571.99

\*SECNO 5.770

5.770	9.12	982.62	979.53	982.62	983.33	.70	.19	.00	989.40
54400.0	.0	54400.0	.0	.0	8081.7	.0	6276.9	1084.5	991.10
1.42	.00	6.73	.00	.000	.030	.000	.000	973.50	9435.38
.001336	140.	145.	150.	1	19	0	.00	1123.63	10559.01

\*SECNO 5.790

3265 DIVIDED FLOW

5.790	8.04	982.64	980.59	982.64	983.70	1.06	.27	.11	992.30
54400.0	.0	54400.0	.0	.0	6574.2	.0	6303.0	1088.3	990.20
1.43	.00	8.27	.00	.000	.030	.000	.000	974.60	9443.50
.002340	150.	155.	160.	2	14	0	.00	1015.97	10557.55

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SECNO	DEPTH	CWSEL	CRISW	WSELK	EG	HV	HL	OLOSS	L-BANK ELEV
Q	QLOB	QCH	QROB	ALOB	ACH	AROB	VOL	TWA	R-BANK ELEV
TIME	VLOB	VCH	VROB	XNL	XNCH	XNR	WTN	ELMIN	SSTA
SLOPE	XLOBL	XLCH	XLOBR	ITRIAL	IDC	ICONT	CORAR	TOPWID	ENDST
*SECNO 5.810									
5.810	8.69	983.29	980.19	983.29	984.00	.71	.26	.04	990.80
54400.0	.0	54400.0	.0	.0	8071.5	.0	6328.2	1091.9	991.00
1.44	.00	6.74	.00	.000	.030	.000	.000	974.60	9449.75
.001325	160.	150.	140.	2	19	0	.00	1110.69	10560.44
*SECNO 5.900									
5.900	8.56	983.96	981.21	983.96	984.73	.77	.72	.02	993.00
54400.0	.0	54400.0	.0	.0	7700.7	.0	6418.7	1104.7	991.10
1.46	.00	7.06	.00	.000	.030	.000	.000	975.40	9439.50
.001551	495.	500.	500.	2	14	0	.00	1112.51	10552.01
*SECNO 5.990									
5.990	9.23	984.73	981.95	984.73	985.51	.78	.77	.00	992.50
54400.0	.0	54400.0	.0	.0	7700.1	.0	6507.1	1117.5	993.20
1.47	.00	7.06	.00	.000	.030	.000	.000	975.50	9439.35
.001545	515.	500.	485.	2	19	0	.00	1109.63	10548.99
*SECNO 6.070									
6.070	8.68	985.38	982.47	985.38	986.13	.75	.61	.00	992.70
54400.0	.0	54400.0	.0	.0	7853.0	.0	6580.3	1127.9	992.40
1.49	.00	6.93	.00	.000	.030	.000	.000	976.70	9424.20
.001452	400.	410.	420.	1	14	0	.00	1112.14	10536.34
*SECNO 6.160									
6.160	7.01	986.11	983.45	986.11	986.90	.79	.76	.01	994.00
54400.0	.0	54400.0	.0	.0	7628.8	.0	6669.2	1140.7	993.20
1.51	.00	7.13	.00	.000	.030	.000	.000	979.10	9428.99
.001605	500.	500.	500.	1	8	0	.00	1114.84	10543.83
*SECNO 6.260									
6.260	6.73	986.93	985.00	986.93	987.92	.99	.96	.06	994.10
54400.0	.0	54400.0	.0	.0	6805.7	.0	6752.0	1153.5	993.30
1.53	.00	7.99	.00	.000	.030	.000	.000	980.20	9435.08
.002347	510.	500.	495.	2	19	0	.00	1115.70	10550.78

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SECNO	DEPTH	CWSEL	CRISW	WSELK	EG	HV	HL	OLOSS	L-BANK ELEV
Q	QLOB	QCH	QROB	ALOB	ACH	AROB	VOL	TWA	R-BANK ELEV
TIME	VLOB	VCH	VROB	XNL	XNCH	XNR	WTN	ELMIN	SSTA
SLOPE	XLOBL	XLCH	XLOBR	ITRIAL	IDC	ICONT	CORAR	TOPWID	ENDST
*SECNO 6.350									
6.350	7.60	988.10	985.86	988.10	989.02	.92	1.09	.01	996.30
54400.0	.0	54400.0	.0	.0	7056.9	.0	6831.6	1166.2	996.30
1.55	.00	7.71	.00	.000	.030	.000	.000	980.50	9455.46
.002032	525.	500.	475.	2	15	0	.00	1094.92	10550.39
*SECNO 6.430									
6.430	8.00	989.00	987.47	989.00	990.20	1.20	1.09	.08	996.50
54400.0	.0	54400.0	.0	.0	6187.8	.0	6899.2	1177.2	996.10
1.56	.00	8.79	.00	.000	.030	.000	.000	981.00	9461.07
.003037	510.	445.	380.	2	15	0	.00	1066.53	10527.60
*SECNO 6.520									
3301 HV CHANGED MORE THAN HVINS									
3302 WARNING: CONVEYANCE CHANGE OUTSIDE OF ACCEPTABLE RANGE, KRATIO = 1.56									
6.520	8.88	990.38	987.11	990.38	991.06	.69	.81	.05	997.60
54400.0	.0	54400.0	.0	.0	8177.3	.0	6971.8	1188.1	997.60
1.58	.00	6.65	.00	.000	.030	.000	.000	981.50	9469.62
.001245	510.	440.	370.	2	19	0	.00	1095.24	10564.86
*SECNO 6.540									
3265 DIVIDED FLOW									
6.540	7.87	990.27	988.10	990.27	991.32	1.04	.15	.11	997.90
54400.0	.0	54400.0	.0	.0	6634.2	.0	6987.1	1190.3	997.50

1.58	.00	8.20	.00	.000	.030	.000	.000	982.40	9473.14
.002223	100.	90.	75.	2	14	0	.00	1001.00	10572.97
*SECNO 6.560									
6.560	8.69	990.79	987.82	990.79	991.52	.74	.17	.03	998.10
54400.0	.0	54400.0	.0	.0	7905.9	.0	7003.8	1192.7	997.70
1.59	.00	6.88	.00	.000	.030	.000	.000	982.10	9473.24
.001412	115.	100.	85.	2	19	0	.00	1107.89	10581.13

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SECNO	DEPTH	CWSEL	CRISWS	WSELK	EG	HV	HL	OLOSS	L-BANK ELEV
Q	QLOB	QCH	QROB	ALOB	ACH	AROB	VOL	TWA	R-BANK ELEV
TIME	VLOB	VCH	VROB	XNL	XNCH	XNR	WTN	ELMIN	SSTA
SLOPE	XLOBL	XLCH	XLOBR	ITRIAL	IDC	ICONT	CORAR	TOPWID	ENDST
*SECNO 6.590									
6.590	9.31	991.11	987.44	991.11	991.72	.61	.18	.01	998.50
54400.0	.0	54400.0	.0	.0	8703.7	.0	7032.4	1196.5	998.00
1.59	.00	6.25	.00	.000	.030	.000	.000	981.80	9462.66
.001031	165.	150.	155.	2	14	0	.00	1112.03	10574.69

\*SECNO 6.610

3265 DIVIDED FLOW

6.610	9.24	991.04	988.47	991.04	991.94	.90	.14	.09	998.80
54400.0	.0	54400.0	.0	.0	7156.5	.0	7050.6	1199.0	998.20
1.60	.00	7.60	.00	.000	.030	.000	.000	981.80	9448.77
.001885	115.	100.	85.	2	16	0	.00	1066.40	10562.54

\*SECNO 6.640

6.640	9.10	991.50	988.30	991.50	992.19	.69	.23	.02	999.30
54400.0	.0	54400.0	.0	.0	8182.3	.0	7077.0	1202.8	998.40
1.60	.00	6.65	.00	.000	.030	.000	.000	982.40	9454.60
.001266	165.	150.	135.	2	14	0	.00	1112.14	10566.75

\*SECNO 6.660

6.660	9.40	991.60	989.01	991.60	992.43	.83	.20	.04	999.60
54400.0	.0	54400.0	.0	.0	7434.5	.0	7101.2	1206.2	999.00
1.61	.00	7.32	.00	.000	.030	.000	.000	982.20	9476.36
.001746	150.	135.	120.	2	19	0	.00	1112.30	10588.65

\*SECNO 6.690

6.690	9.78	991.98	988.54	991.98	992.63	.65	.17	.02	1000.00
54400.0	.0	54400.0	.0	.0	8436.5	.0	7124.0	1209.4	998.80
1.61	.00	6.45	.00	.000	.030	.000	.000	982.20	9462.53
.001144	145.	125.	100.	2	19	0	.00	1112.59	10575.13

\*SECNO 6.710

3265 DIVIDED FLOW

6.710	10.61	992.11	988.17	992.11	992.76	.65	.14	.00	1000.30
54400.0	.0	54400.0	.0	.0	8414.0	.0	7148.1	1212.5	999.10
1.62	.00	6.47	.00	.000	.030	.000	.000	981.50	9463.26
.001026	130.	125.	115.	2	19	0	.00	1013.34	10574.14

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SECNO	DEPTH	CWSEL	CRISWS	WSELK	EG	HV	HL	OLOSS	L-BANK ELEV
Q	QLOB	QCH	QROB	ALOB	ACH	AROB	VOL	TWA	R-BANK ELEV
TIME	VLOB	VCH	VROB	XNL	XNCH	XNR	WTN	ELMIN	SSTA
SLOPE	XLOBL	XLCH	XLOBR	ITRIAL	IDC	ICONT	CORAR	TOPWID	ENDST
*SECNO 6.730									
6.730	9.90	992.30	988.46	992.30	992.88	.58	.11	.01	1000.50
54400.0	.0	54400.0	.0	.0	8908.1	.0	7170.0	1215.2	999.30
1.62	.00	6.11	.00	.000	.030	.000	.000	982.40	9461.58
.000954	110.	110.	110.	2	11	0	.00	1112.35	10573.93

\*SECNO 6.770

3301 HV CHANGED MORE THAN HVINS

3302 WARNING: CONVEYANCE CHANGE OUTSIDE OF ACCEPTABLE RANGE, KRATIO = .39

6.770	6.78	991.88	991.55	991.88	993.71	1.83	.46	.38	1002.10
54400.0	.0	54400.0	.0	.0	5009.6	.0	7206.7	1221.0	1001.40

1.63	.00	10.86	.00	.000	.030	.000	.000	985.10	9457.39
.006409	215.	230.	245.	3	14	0	.00	1102.91	10560.30

\*SECNO 6.790

3265 DIVIDED FLOW

3301 HV CHANGED MORE THAN HVINS

6.790	8.63	992.93	991.50	992.93	994.26	1.33	.49	.05	1002.90
54400.0	.0	54400.0	.0	.0	5885.7	.0	7220.5	1223.7	1002.20
1.63	.00	9.24	.00	.000	.030	.000	.000	984.30	9456.73
.003311	110.	110.	110.	3	8	0	.00	1001.19	10561.16

\*SECNO 6.820

6.820	8.93	993.73	991.24	993.73	994.58	.85	.27	.05	1002.70
54400.0	.0	54400.0	.0	.0	7358.7	.0	7238.0	1226.5	1001.00
1.64	.00	7.39	.00	.000	.030	.000	.000	984.80	9457.95
.001788	115.	115.	115.	2	19	0	.00	1106.10	10564.05

\*SECNO 6.890

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SECNO	DEPTH	CWSEL	CRISW	WSELK	EG	HV	HL	OLOSS	L-BANK ELEV
Q	QLOB	QCH	QROB	ALOB	ACH	AROB	VOL	TWA	R-BANK ELEV
TIME	VLOB	VCH	VROB	XLN	XNCH	XNR	WTN	ELMIN	SSTA
SLOPE	XLOBL	XLCH	XLOBR	ITRIAL	IDC	ICONT	CORAR	TOPWID	ENDST

3301 HV CHANGED MORE THAN HVINS

3302 WARNING: CONVEYANCE CHANGE OUTSIDE OF ACCEPTABLE RANGE, KRATIO = .54

6.890	4.78	994.18	993.79	994.18	995.96	1.79	1.11	.28	1004.20
54400.0	.0	54400.0	.0	.0	5071.2	.0	7290.1	1235.7	1002.70
1.65	.00	10.73	.00	.000	.030	.000	.000	989.40	9454.42
.006210	365.	365.	365.	3	8	0	.00	1110.40	10564.82

\*SECNO 6.910

3265 DIVIDED FLOW

6.910	5.31	994.81	994.32	994.81	996.62	1.81	.65	.01	1002.80
54400.0	.0	54400.0	.0	.0	5036.9	.0	7302.8	1238.4	1002.70
1.65	.00	10.80	.00	.000	.030	.000	.000	989.50	9443.21
.005685	105.	110.	115.	2	5	0	.00	1018.43	10568.00

\*SECNO 6.930

3301 HV CHANGED MORE THAN HVINS

3302 WARNING: CONVEYANCE CHANGE OUTSIDE OF ACCEPTABLE RANGE, KRATIO = 1.58

6.930	6.21	996.11	994.12	996.11	997.07	.96	.36	.09	1004.80
54400.0	.0	54400.0	.0	.0	6915.7	.0	7317.2	1241.0	1003.90
1.65	.00	7.87	.00	.000	.030	.000	.000	989.90	9432.07
.002268	105.	105.	105.	3	15	0	.00	1131.93	10564.01

\*SECNO 6.970

6.970	6.23	996.63	994.68	996.63	997.59	.96	.52	.00	1004.20
54400.0	.0	54400.0	.0	.0	6931.4	.0	7353.8	1247.0	1004.60
1.66	.00	7.85	.00	.000	.030	.000	.000	990.40	9415.89
.002278	220.	230.	240.	2	14	0	.00	1143.00	10558.89

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SECNO	DEPTH	CWSEL	CRISW	WSELK	EG	HV	HL	OLOSS	L-BANK ELEV
Q	QLOB	QCH	QROB	ALOB	ACH	AROB	VOL	TWA	R-BANK ELEV
TIME	VLOB	VCH	VROB	XLN	XNCH	XNR	WTN	ELMIN	SSTA
SLOPE	XLOBL	XLCH	XLOBR	ITRIAL	IDC	ICONT	CORAR	TOPWID	ENDST

\*SECNO 6.990

3265 DIVIDED FLOW

3301 HV CHANGED MORE THAN HVINS

6.990	6.39	996.59	995.55	996.59	998.05	1.46	.31	.15	1003.40
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Effective Model Output  
AGUAFRIA.OUT

54400.0	.0	54400.0	.0	.0	5603.4	.0	7368.9	1249.7	1003.50
1.66	.00	9.71	.00	.000	.030	.000	.000	990.20	9419.31
.004061	95.	105.	115.	2	15	0	.00	1032.44	10549.14

\*SECNO 7.020

3301 HV CHANGED MORE THAN HVINS

3302 WARNING: CONVEYANCE CHANGE OUTSIDE OF ACCEPTABLE RANGE, KRATIO = 1.54

7.020	8.51	997.61	995.04	997.61	998.43	.82	.31	.06	1004.50
54400.0	.0	54400.0	.0	.0	7493.2	.0	7387.7	1252.7	1004.00
1.67	.00	7.26	.00	.000	.030	.000	.000	989.10	9444.65
.001702	120.	125.	130.	3	11	0	.00	1115.41	10560.07

\*SECNO 7.060

7.060	8.36	997.96	995.68	997.96	998.88	.91	.41	.03	1006.00
54400.0	.0	54400.0	.0	.0	7090.4	.0	7425.4	1258.4	1004.80
1.68	.00	7.67	.00	.000	.030	.000	.000	989.60	9457.82
.001990	210.	225.	235.	2	19	0	.00	1092.76	10550.58

\*SECNO 7.080

3265 DIVIDED FLOW

7.080	7.58	998.08	996.04	998.08	999.17	1.09	.24	.05	1006.60
54400.0	.0	54400.0	.0	.0	6502.9	.0	7442.5	1261.1	1005.60
1.68	.00	8.37	.00	.000	.030	.000	.000	990.50	9466.81
.002371	110.	110.	110.	2	14	0	.00	998.41	10554.88

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SECNO	DEPTH	CWSEL	CRINS	WSELK	EG	HV	HL	OLOSS	L-BANK ELEV
Q	QLOB	QCH	QROB	ALOB	ACH	AROB	VOL	TWA	R-BANK ELEV
TIME	VLOB	VCH	VROB	XLN	XNCH	XNR	WTN	ELMIN	SSTA
SLOPE	XLOBL	XLCH	XLOBR	ITRIAL	IDC	ICONT	CORAR	TOPWID	ENDST

\*SECNO 7.100

7.100	7.45	998.35	996.82	998.35	999.52	1.18	.33	.03	1006.30
54400.0	.0	54400.0	.0	.0	6250.8	.0	7460.8	1264.1	1006.10
1.68	.00	8.70	.00	.000	.030	.000	.000	990.90	9451.71
.002994	125.	125.	125.	0	15	0	.00	1082.37	10534.08

\*SECNO 7.200

3302 WARNING: CONVEYANCE CHANGE OUTSIDE OF ACCEPTABLE RANGE, KRATIO = 1.45

7.200	9.10	999.80	996.77	999.80	1000.56	.76	.99	.04	1006.90
54400.0	.0	54400.0	.0	.0	7770.1	.0	7541.3	1276.4	1007.20
1.70	.00	7.00	.00	.000	.030	.000	.000	990.70	9482.05
.001417	515.	500.	490.	2	15	0	.00	1063.27	10545.31

\*SECNO 7.290

7.290	7.28	1000.48	998.55	1000.48	1001.57	1.08	.91	.10	1008.90
54400.0	.0	54400.0	.0	.0	6508.4	.0	7623.2	1288.3	1009.10
1.72	.00	8.36	.00	.000	.030	.000	.000	993.20	9483.22
.002423	490.	500.	510.	2	11	0	.00	1022.39	10505.61

\*SECNO 7.390

7.390	7.89	1001.69	999.05	1001.69	1002.60	.91	1.02	.02	1008.80
54400.0	.0	54400.0	.0	.0	7105.8	.0	7700.6	1299.9	1009.90
1.74	.00	7.66	.00	.000	.030	.000	.000	993.80	9507.39
.001762	500.	495.	495.	2	19	0	.00	1002.00	10509.40

\*SECNO 7.490

7.490	7.39	1002.59	1000.13	1002.59	1003.57	.98	.95	.02	1009.50
54400.0	.0	54400.0	.0	.0	6846.1	.0	7783.1	1311.6	1010.90
1.76	.00	7.95	.00	.000	.030	.000	.000	995.20	9517.21
.001936	575.	515.	515.	2	14	0	.00	979.92	10497.13

\*SECNO 7.580

7.580	8.15	1003.55	1000.36	1003.55	1004.38	.83	.79	.02	1010.30
54400.0	.0	54400.0	.0	.0	7454.1	.0	7861.8	1322.3	1010.90
1.77	.00	7.30	.00	.000	.030	.000	.000	995.40	9517.08
.001426	540.	480.	405.	2	14	0	.00	965.56	10482.64

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SECNO	DEPTH	CWSEL	CRINS	WSELK	EG	HV	HL	OLOSS	L-BANK ELEV
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Q	QLOB	QCH	QROB	ALOB	ACH	AROB	VOL	TWA	R-BANK	ELEV
TIME	VLOB	VCH	VROB	XNL	XNCH	XNR	WTN	ELMIN	SSTA	
SLOPE	XLOBL	XLCH	XLOBR	ITRIAL	IDC	ICONT	CORAR	TOPWID	ENDST	

\*SECNO 7.670

3302 WARNING: CONVEYANCE CHANGE OUTSIDE OF ACCEPTABLE RANGE, KRATIO = 1.48

3495 OVERBANK AREA ASSUMED NON-EFFECTIVE, ELLEA= 1009.90 ELREA= 1010.10

7.670	10.09	1004.39	999.25	1004.39	1004.89	.50	.47	.03	1009.90
54400.0	.0	54400.0	.0	.0	9607.4	.0	7961.7	1333.9	1010.10
1.80	.00	5.66	.00	.000	.030	.000	.000	994.30	9521.35
.000653	480.	510.	530.	1	14	0	.00	1010.05	10531.40

\*SECNO 7.770

3495 OVERBANK AREA ASSUMED NON-EFFECTIVE, ELLEA= 1010.50 ELREA= 1010.90

7.770	8.58	1004.68	1001.05	1004.68	1005.37	.68	.42	.06	1010.50
54400.0	.0	54400.0	.0	.0	8203.9	.0	8063.9	1345.6	1010.90
1.82	.00	6.63	.00	.000	.030	.000	.000	996.10	9499.02
.001134	510.	500.	500.	2	8	0	.00	1031.78	10530.80

\*SECNO 7.870

3495 OVERBANK AREA ASSUMED NON-EFFECTIVE, ELLEA= 1010.50 ELREA= 1013.10

7.870	7.88	1005.28	1002.02	1005.28	1005.96	.68	.59	.00	1010.50
54400.0	.0	54400.0	.0	.0	8245.7	.0	8158.4	1357.9	1013.10
1.84	.00	6.60	.00	.000	.030	.000	.000	997.40	9460.36
.001234	650.	500.	410.	2	11	0	.00	1113.52	10573.88

\*SECNO 7.960

3495 OVERBANK AREA ASSUMED NON-EFFECTIVE, ELLEA= 1013.00 ELREA= 1012.40

7.960	7.37	1005.97	1002.61	1005.97	1006.50	.53	.53	.01	1013.00
54400.0	.0	54400.0	.0	.0	9308.8	.0	8253.1	1371.0	1012.40
1.86	.00	5.84	.00	.000	.030	.000	.000	998.60	9346.52
.001028	460.	470.	470.	2	8	0	.00	1315.04	10661.56

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SECNO	DEPTH	CWSEL	CRWS	WSELK	EG	HV	HL	OLOSS	L-BANK	ELEV
Q	QLOB	QCH	QROB	ALOB	ACH	AROB	VOL	TWA	R-BANK	ELEV
TIME	VLOB	VCH	VROB	XNL	XNCH	XNR	WTN	ELMIN	SSTA	
SLOPE	XLOBL	XLCH	XLOBR	ITRIAL	IDC	ICONT	CORAR	TOPWID	ENDST	

\*SECNO 7.990

3495 OVERBANK AREA ASSUMED NON-EFFECTIVE, ELLEA= 1014.90 ELREA= 1014.80

7.990	7.08	1006.18	1002.86	1006.18	1006.68	.50	.18	.00	1014.90
54400.0	.0	54400.0	.0	.0	9569.4	.0	8291.0	1376.4	1014.80
1.87	.00	5.68	.00	.000	.030	.000	.000	999.10	9318.01
.001003	175.	175.	175.	1	8	0	.00	1385.60	10703.62

CCHV= .300 CEHV= .500

\*SECNO 8.000

3370 NORMAL BRIDGE, NRD= 68 MIN ELTRD= 1021.30 MAX ELLC= 1013.30

\*\*\*\*\*  
\*\*\*\*\* INDIAN SCHOOL ROAD \*\*\*\*\*  
\*\*\*\*\* LOW CHORD = 1013.3 \*\*\*\*\*  
\*\*\*\*\*

8.000	6.98	1006.18	1003.12	1006.18	1006.80	.62	.06	.06	1013.30
54400.0	.0	54400.0	.0	.0	8640.8	.0	8301.4	1378.0	1013.30
1.88	.00	6.30	.00	.000	.030	.000	.000	999.20	9249.43
.001515	50.	50.	50.	2	18	0	-1471.77	1461.69	10711.12

\*SECNO 8.010

3370 NORMAL BRIDGE, NRD= 68 MIN ELTRD= 1021.30 MAX ELLC= 1013.30

8.010	7.13	1006.33	1003.12	1006.33	1006.92	.59	.11	.01	1013.30
54400.0	.0	54400.0	.0	.0	8818.5	.0	8316.5	1380.6	1013.30
1.88	.00	6.17	.00	.000	.030	.000	.000	999.20	9249.15
.001422	75.	75.	75.	2	18	0	-1501.83	1462.25	10711.40

CCHV= .100 CEHV= .300

\*SECNO 8.030

3302 WARNING: CONVEYANCE CHANGE OUTSIDE OF ACCEPTABLE RANGE, KRATIO = .70

3470 ENCROACHMENT STATIONS=	9440.0	10904.0	TYPE=	1	TARGET=	1464.000			
8.030	6.99	1006.19	1004.79	1006.19	1007.12	.93	.10	.10	1009.80
54400.0	.0	54400.0	.0	.0	7047.5	.0	8325.6	1382.2	1013.00
1.88	.00	7.72	.00	.000	.030	.000	.000	999.20	9451.49
.002925	50.	50.	50.	2	15	0	.00	1436.45	10887.94

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SECNO	DEPTH	CWSEL	CRWS	WSELK	EG	HV	HL	OLOSS	L-BANK ELEV
Q	QLOB	QCH	QROB	ALOB	ACH	AROB	VOL	TWA	R-BANK ELEV
TIME	VLOB	VCH	VROB	XNL	XNCH	XNR	WTN	ELMIN	SSTA
SLOPE	XLOBL	XLCH	XLOBR	ITRIAL	IDC	ICONT	CORAR	TOPWID	ENDST

\*SECNO 8.105

3470 ENCROACHMENT STATIONS=	9470.0	10980.0	TYPE=	1	TARGET=	1510.000			
8.105	6.88	1007.38	1005.40	1007.40	1008.08	.71	.95	.02	1001.80
54400.0	587.7	53812.3	.0	131.0	7957.7	.0	8394.5	1395.6	1014.40
1.90	4.49	6.76	.00	.040	.030	.000	.000	1000.50	9470.00
.001979	280.	398.	620.	2	19	0	.00	1500.65	10970.65

\*SECNO 8.198

3470 ENCROACHMENT STATIONS=	9458.6	10971.1	TYPE=	1	TARGET=	1512.500			
8.198	6.85	1008.35	1006.43	1008.29	1009.08	.72	.99	.01	1014.90
54400.0	.0	54400.0	.0	.0	7966.1	.0	8484.7	1412.4	1015.80
1.92	.00	6.83	.00	.000	.030	.000	.000	1001.50	9470.38
.002047	420.	490.	620.	2	19	0	.00	1493.46	10963.84

\*SECNO 8.325

3470 ENCROACHMENT STATIONS=	9480.0	10990.0	TYPE=	1	TARGET=	1510.000			
8.325	7.92	1010.02	1008.37	1010.00	1010.82	.80	1.72	.02	1013.10
54400.0	.0	53159.9	1240.1	.0	7384.9	208.5	8604.3	1435.5	1004.70
1.94	.00	7.20	5.95	.000	.035	.040	.000	1002.10	9483.48
.003335	645.	669.	705.	2	15	0	.00	1506.52	10990.00

\*SECNO 8.433

3265 DIVIDED FLOW

3301 HV CHANGED MORE THAN HVINS

3470 ENCROACHMENT STATIONS=	9250.0	10975.0	TYPE=	1	TARGET=	1725.000			
8.433	7.09	1012.09	1011.31	1011.98	1013.44	1.34	2.45	.16	1010.00
54400.0	6917.6	47237.7	244.7	1107.3	4875.5	104.2	8693.7	1454.7	1013.80
1.96	6.25	9.69	2.35	.040	.035	.040	.000	1005.00	9250.00
.005770	510.	573.	660.	2	15	0	.00	1418.65	10975.00

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SECNO	DEPTH	CWSEL	CRWS	WSELK	EG	HV	HL	OLOSS	L-BANK ELEV
Q	QLOB	QCH	QROB	ALOB	ACH	AROB	VOL	TWA	R-BANK ELEV
TIME	VLOB	VCH	VROB	XNL	XNCH	XNR	WTN	ELMIN	SSTA
SLOPE	XLOBL	XLCH	XLOBR	ITRIAL	IDC	ICONT	CORAR	TOPWID	ENDST

\*SECNO 8.534

3280 CROSS SECTION 8.53 EXTENDED 1.92 FEET

3301 HV CHANGED MORE THAN HVINS

3470 ENCROACHMENT STATIONS=	9010.0	10965.0	TYPE=	1	TARGET=	1955.000			
8.534	7.32	1015.12	1013.53	1014.38	1015.74	.62	2.23	.07	1013.00
54400.0	1208.2	43160.6	10031.2	235.1	6740.0	1685.1	8783.6	1475.2	1012.20
1.98	5.14	6.40	5.95	.040	.035	.040	.000	1007.80	9010.00
.003190	540.	531.	525.	2	15	0	.00	1955.00	10965.00

\*SECNO 8.646

3470 ENCROACHMENT STATIONS=	9050.0	10990.0	TYPE=	1	TARGET=	1940.000			
8.646	8.89	1016.69	1014.50	1015.75	1017.20	.51	1.44	.01	1013.00
54400.0	4584.7	45663.8	4151.5	1011.1	7645.8	1196.5	8909.4	1501.7	1014.60
2.01	4.53	5.97	3.47	.040	.035	.040	.000	1007.80	9050.00
.001927	575.	592.	600.	3	15	0	.00	1940.00	10990.00

\*SECNO 8.768

3470 ENCROACHMENT STATIONS=	9275.0	11105.0	TYPE=	1	TARGET=	1830.000				
8.768	9.72	1018.12	1017.08	1017.26	1018.93	.81	1.64	.09	1014.30	
54400.0	10567.3	26445.2	17387.5	1544.3	3136.5	3374.6	9040.6	1529.3	1015.80	
2.04	6.84	8.43	5.15	.040	.035	.040	.000	1008.40	9275.00	
.003598	620.	642.	640.	2	6	0	.00	1830.00	11105.00	

\*SECNO 8.875

3470 ENCROACHMENT STATIONS=	9525.0	11295.0	TYPE=	1	TARGET=	1770.000				
8.875	10.91	1020.01	1018.93	1019.52	1020.92	.91	1.96	.03	1016.30	
54400.0	4285.3	39270.2	10844.5	616.3	4682.5	2508.8	9141.3	1551.9	1017.30	
2.06	6.95	8.39	4.32	.040	.035	.040	.000	1009.10	9525.00	
.003446	570.	565.	530.	2	5	0	.00	1770.00	11295.00	

\*SECNO 8.992

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SECNO	DEPTH	CWSEL	CRISW	WSELK	EG	HV	HL	OLOSS	L-BANK ELEV
Q	QLOB	QCH	QROB	ALOB	ACH	AROB	VOL	TWA	R-BANK ELEV
TIME	VLOB	VCH	VROB	XNL	XNCH	XNR	WTN	ELMIN	SSTA
SLOPE	XLOBL	XLCH	XLOBR	ITRIAL	IDC	ICONT	CORAR	TOPWID	ENDST

3302 WARNING: CONVEYANCE CHANGE OUTSIDE OF ACCEPTABLE RANGE, KRATIO = 1.54

3470 ENCROACHMENT STATIONS=	9770.0	11465.0	TYPE=	1	TARGET=	1695.000				
8.992	13.71	1021.81	1018.90	1021.34	1022.26	.45	1.29	.05	1017.80	
54400.0	580.6	53777.5	41.9	180.2	9992.9	18.8	9265.3	1575.1	1019.00	
2.09	3.22	5.38	2.23	.040	.035	.040	.000	1008.10	9770.00	
.001450	660.	620.	470.	2	6	0	.00	1695.00	11465.00	

\*SECNO 9.098

3470 ENCROACHMENT STATIONS=	9820.0	11560.0	TYPE=	1	TARGET=	1740.000				
9.098	12.71	1022.61	1019.39	1022.22	1022.98	.38	.72	.01	1015.80	
54400.0	7.6	54322.8	69.6	6.5	10997.0	32.5	9402.1	1597.2	1017.90	
2.12	1.16	4.94	2.14	.040	.035	.040	.000	1009.90	9820.00	
.001146	630.	562.	235.	2	18	0	.00	1739.29	11559.29	

CCHV= .300 CEHV= .500

\*SECNO 9.177

3470 ENCROACHMENT STATIONS=	9836.0	11608.0	TYPE=	1	TARGET=	1772.000				
***** CAMELBACK ROAD *****										
***** LOW CHORD = 1027.5 *****										
9.177	12.71	1023.11	1020.28	1022.82	1023.55	.44	.54	.03	1023.70	
54400.0	.0	54400.0	.0	.0	10173.4	.0	9503.3	1613.6	1024.70	
2.14	.00	5.35	.00	.000	.035	.000	.000	1010.40	9884.36	
.001458	460.	416.	220.	2	14	0	.00	1695.44	11579.81	

SPECIAL BRIDGE

SB	XK	XKOR	COFQ	RDLEN	BWC	BWP	BAREA	SS	ELCHU	ELCHD
1.05	1.56	2.70	.00	1650.00	84.00	18351.47	3.00	1016.00	1016.00	

\*SECNO 9.191

BTCARD, BRIDGE STENCL= 9850.00 STENCR= 11610.00

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SECNO	DEPTH	CWSEL	CRISW	WSELK	EG	HV	HL	OLOSS	L-BANK ELEV
Q	QLOB	QCH	QROB	ALOB	ACH	AROB	VOL	TWA	R-BANK ELEV
TIME	VLOB	VCH	VROB	XNL	XNCH	XNR	WTN	ELMIN	SSTA
SLOPE	XLOBL	XLCH	XLOBR	ITRIAL	IDC	ICONT	CORAR	TOPWID	ENDST

CLASS A LOW FLOW

3420 BRIDGE W.S.= 1023.07 BRIDGE VELOCITY= 4.85 CALCULATED CHANNEL AREA= 11221.

EGPRS	EGLWC	H3	QWEIR	QLOW	BAREA	TRAPZOID AREA	ELLC	ELTRD	WEIRLN
.00	1023.59	.05	0.	54400.	18351.	25492.	1031.80	1034.20	0.

3470 ENCROACHMENT STATIONS=	9850.0	11610.0	TYPE=	1	TARGET=	1760.000				
9.191	12.46	1023.16	.00	1022.88	1023.59	.43	.03	.00	1032.50	
54400.0	.0	54400.0	.0	.0	10367.1	.0	9517.5	1615.9	1032.30	

2.15	.00	5.25	.00	.000	.035	.000	.000	1010.70	9887.20
.001361	60.	60.	60.	0	0	0	.00	1687.96	11575.16

\*SECNO 9.198

3280 CROSS SECTION 9.20 EXTENDED 5.60 FEET

3470 ENCROACHMENT STATIONS=	9862.4	11582.2	TYPE=	1	TARGET=	1719.800			
9.198	12.09	1023.19	1020.53	1022.92	1023.66	.47	.05	.02	1022.50
54400.0	.4	54399.6	.0	.7	9883.7	.0	9525.4	1617.2	1024.10
2.15	.57	5.50	.00	.050	.035	.000	.000	1011.10	9883.69
.001601	34.	34.	34.	1	14	0	.00	1694.50	11578.19

\*SECNO 9.266

3470 ENCROACHMENT STATIONS=	9725.0	11620.0	TYPE=	1	TARGET=	1895.000			
9.266	10.11	1023.81	1021.36	1023.69	1024.26	.45	.60	.01	1022.10
54400.0	1.3	54318.1	80.6	1.5	10054.9	37.5	9607.7	1632.0	1021.50
2.17	.87	5.40	2.15	.050	.035	.050	.000	1013.70	9725.00
.001735	355.	359.	340.	2	14	0	.00	1895.00	11620.00

CCHV= .100 CEHV= .300

\*SECNO 9.343

3470 ENCROACHMENT STATIONS=	9618.0	11470.0	TYPE=	1	TARGET=	1852.000			
9.343	10.12	1024.52	1022.12	1024.39	1025.04	.52	.76	.02	1022.60
54400.0	1.1	54306.0	93.0	1.2	9357.3	76.5	9699.0	1649.5	1023.70
2.19	.86	5.80	1.22	.050	.035	.050	.000	1014.40	9618.00
.002015	400.	407.	420.	2	19	0	.00	1852.00	11470.00

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SECNO	DEPTH	CWSEL	CRISW	WSELK	EG	HV	HL	OLOSS	L-BANK ELEV
Q	QLOB	QCH	QROB	ALOB	ACH	AROB	VOL	TWA	R-BANK ELEV
TIME	VLOB	VCH	VROB	XNL	XNCH	XNR	WTN	ELMIN	SSTA
SLOPE	XLOBL	XLCH	XLOBR	ITRIAL	IDC	ICONT	CORAR	TOPWID	ENDST

\*SECNO 9.435

3470 ENCROACHMENT STATIONS=	9548.0	11200.0	TYPE=	1	TARGET=	1652.000			
9.435	10.26	1025.46	1022.98	1025.38	1026.03	.57	.97	.01	1025.00
54400.0	.2	54399.8	.0	.4	8993.0	.0	9801.0	1668.6	1025.80
2.21	.59	6.05	.00	.050	.035	.000	.000	1015.20	9548.00
.002023	475.	482.	495.	2	19	0	.00	1593.80	11141.80

\*SECNO 9.519

3470 ENCROACHMENT STATIONS=	9500.0	11160.0	TYPE=	1	TARGET=	1660.000			
9.519	10.09	1026.39	1024.47	1026.33	1027.05	.66	1.00	.03	1025.30
54400.0	69.9	53835.8	494.3	40.2	8229.7	222.3	9890.5	1685.3	1024.80
2.23	1.74	6.54	2.22	.050	.035	.050	.000	1016.30	9500.00
.002474	450.	446.	445.	2	14	0	.00	1660.00	11160.00

\*SECNO 9.605

3470 ENCROACHMENT STATIONS=	9510.0	11140.0	TYPE=	1	TARGET=	1630.000			
9.605	8.80	1027.50	1025.29	1027.42	1028.15	.65	1.09	.00	1026.20
54400.0	46.5	54097.6	255.9	26.2	8324.4	154.4	9978.9	1702.4	1026.70
2.25	1.78	6.50	1.66	.050	.035	.050	.000	1018.70	9510.00
.002358	450.	453.	455.	2	23	0	.00	1630.00	11140.00

\*SECNO 9.696

3470 ENCROACHMENT STATIONS=	9570.0	11080.0	TYPE=	1	TARGET=	1510.000			
9.696	10.06	1028.76	1027.32	1028.72	1029.68	.92	1.45	.08	1026.20
54400.0	579.8	53587.2	232.9	133.1	6916.4	106.8	10065.9	1719.7	1026.90
2.26	4.36	7.75	2.18	.050	.035	.050	.000	1018.70	9570.00
.003944	530.	484.	430.	2	8	0	.00	1510.00	11080.00

\*SECNO 9.790

3301 HV CHANGED MORE THAN HVINS

3470 ENCROACHMENT STATIONS=	9525.0	10924.0	TYPE=	1	TARGET=	1399.000			
9.790	10.99	1030.49	1026.85	1029.58	1030.73	.24	.98	.07	1029.10
30000.0	77.6	29922.2	.2	60.0	7667.6	.4	10150.1	1736.1	1029.40
2.30	1.29	3.90	.38	.050	.035	.050	.000	1019.50	9525.00
.000850	570.	493.	365.	2	19	0	.00	1399.00	10924.00

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SECNO	DEPTH	CWSEL	CRISW	WSELK	EG	HV	HL	GLOSS	L-BANK ELEV
Q	QLOB	QCH	QROB	ALOB	ACH	AROB	VOL	TWA	R-BANK ELEV
TIME	VLOB	VCH	VROB	XNL	XNCH	XNR	WTN	ELMIN	SSTA
SLOPE	XLOBL	XLCH	XLOBR	ITRIAL	IDC	ICONT	CORAR	TOPWID	ENDST

\*SECNO 9.885

3302 WARNING: CONVEYANCE CHANGE OUTSIDE OF ACCEPTABLE RANGE, KRATIO = .62

3470 ENCROACHMENT STATIONS=	9325.0	10725.0	TYPE=	1	TARGET=	1400.000			
9.885	9.92	1031.02	1029.21	1030.38	1031.44	.42	.65	.05	1031.30
30000.0	.0	29968.7	31.3	.0	5776.6	21.2	10228.3	1752.3	1029.90
2.33	.00	5.19	1.48	.000	.035	.050	.000	1021.10	9328.83
.002211	520.	504.	460.	2	13	0	.00	1396.17	10725.00

\*SECNO 9.981

3280 CROSS SECTION 9.98 EXTENDED .13 FEET

3470 ENCROACHMENT STATIONS=	9288.0	10610.0	TYPE=	1	TARGET=	1322.000			
9.981	9.33	1032.13	1029.95	1031.70	1032.60	.47	1.15	.01	1033.50
30000.0	.0	29942.6	457.4	.0	5358.5	185.2	10293.6	1767.8	1029.70
2.35	.00	5.51	2.47	.000	.035	.050	.000	1022.80	9303.75
.002361	620.	504.	380.	2	19	0	.00	1306.25	10610.00

\*SECNO 10.071

3280 CROSS SECTION 10.07 EXTENDED 1.05 FEET

3470 ENCROACHMENT STATIONS=	9289.0	10520.0	TYPE=	1	TARGET=	1231.000			
10.071	8.36	1033.26	1031.18	1032.83	1033.74	.49	1.14	.01	1032.60
30000.0	.3	29967.4	32.4	.4	5342.7	16.5	10352.8	1781.5	1031.50
2.37	.67	5.61	1.96	.050	.035	.050	.000	1024.90	9289.00
.002442	625.	475.	355.	1	14	0	.00	1231.00	10520.00

\*SECNO 10.167

3280 CROSS SECTION 10.17 EXTENDED 1.13 FEET

3470 ENCROACHMENT STATIONS=	9390.0	10380.0	TYPE=	1	TARGET=	990.000			
10.167	10.93	1034.23	1031.31	1033.82	1034.68	.45	.93	.00	1033.50
30000.0	15.0	29353.0	632.0	16.8	5406.6	294.1	10417.5	1794.4	1031.00
2.40	.90	5.43	2.15	.050	.035	.050	.000	1023.30	9390.00
.001410	575.	512.	400.	2	10	0	.00	990.00	10380.00

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SECNO	DEPTH	CWSEL	CRISW	WSELK	EG	HV	HL	GLOSS	L-BANK ELEV
Q	QLOB	QCH	QROB	ALOB	ACH	AROB	VOL	TWA	R-BANK ELEV
TIME	VLOB	VCH	VROB	XNL	XNCH	XNR	WTN	ELMIN	SSTA
SLOPE	XLOBL	XLCH	XLOBR	ITRIAL	IDC	ICONT	CORAR	TOPWID	ENDST

\*SECNO 10.265

3280 CROSS SECTION 10.27 EXTENDED .43 FEET

3301 HV CHANGED MORE THAN HVINS

3302 WARNING: CONVEYANCE CHANGE OUTSIDE OF ACCEPTABLE RANGE, KRATIO = .62

3470 ENCROACHMENT STATIONS=	9620.0	10360.0	TYPE=	1	TARGET=	740.000			
10.265	8.42	1034.82	1033.09	1034.48	1035.99	1.16	1.10	.21	1032.90
30000.0	435.5	29396.5	168.0	181.6	3364.7	92.3	10472.0	1804.3	1033.70
2.42	2.40	8.74	1.82	.050	.035	.050	.000	1026.40	9620.00
.003644	515.	512.	400.	2	14	0	.00	740.00	10360.00

\*SECNO 10.343

3280 CROSS SECTION 10.34 EXTENDED 1.37 FEET

3470 ENCROACHMENT STATIONS=	9750.0	10340.0	TYPE=	1	TARGET=	590.000			
10.343	9.97	1036.67	1034.54	1036.59	1037.75	1.09	1.76	.01	1032.90
30000.0	893.3	29030.8	75.8	159.7	3438.2	40.4	10506.2	1810.4	1035.20
2.43	5.59	8.44	1.88	.050	.045	.050	.000	1026.70	9750.00
.005106	395.	411.	295.	3	11	0	.00	590.00	10340.00

\*SECNO 10.442

3280 CROSS SECTION 10.44 EXTENDED 2.23 FEET

3470 ENCROACHMENT STATIONS= 9625.0 10380.0 TYPE= 1 TARGET= 755.000

10.442	9.74	1039.14	1036.07	1038.52	1039.73	.60	1.93	.05	1041.90
30000.0	.0	29773.2	226.8	.0	4792.8	93.4	10557.6	1818.4	1037.30
2.46	.00	6.21	2.43	.000	.045	.050	.000	1029.40	9631.21
.002755	465.	528.	455.	2	19	0	.00	748.79	10380.00

\*SECNO 10.538  
3280 CROSS SECTION 10.54 EXTENDED 3.60 FEET

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SECNO	DEPTH	CWSEL	CRISW	WSELK	EG	HV	HL	OLOSS	L-BANK ELEV
Q	QLOB	QCH	QROB	ALOB	ACH	AROB	VOL	TWA	R-BANK ELEV
TIME	VLOB	VCH	VROB	XNL	XNCH	XNR	WTN	ELMIN	SSTA
SLOPE	XLOBL	XLCH	XLOBR	ITRIAL	IDC	ICONT	CORAR	TOPWID	ENDST

3302 WARNING: CONVEYANCE CHANGE OUTSIDE OF ACCEPTABLE RANGE, KRATIO = 1.41

3470 ENCROACHMENT STATIONS=	9540.0	10480.0	TYPE=	1	TARGET=	940.000			
10.538	9.70	1040.40	1036.43	1039.65	1040.72	.32	.96	.03	1035.00
30000.0	794.2	29200.3	5.6	220.1	6428.8	4.8	10624.4	1828.2	1037.90
2.49	3.61	4.54	1.16	.050	.045	.050	.000	1030.70	9540.00
.001386	460.	505.	530.	2	14	0	.00	940.00	10480.00

\*SECNO 10.632  
3280 CROSS SECTION 10.63 EXTENDED 1.10 FEET

3470 ENCROACHMENT STATIONS=	9445.0	10430.0	TYPE=	1	TARGET=	985.000			
10.632	9.40	1041.10	1037.27	1040.50	1041.44	.34	.72	.01	1038.20
30000.0	404.2	29479.3	116.5	187.4	6263.1	62.5	10699.3	1839.1	1039.30
2.52	2.16	4.71	1.86	.050	.045	.050	.000	1031.70	9445.00
.001506	465.	496.	510.	2	11	0	.00	985.00	10430.00

\*SECNO 10.752

3470 ENCROACHMENT STATIONS=	9480.0	10329.9	TYPE=	1	TARGET=	849.900			
10.752	10.83	1042.13	1038.50	1041.82	1042.71	.57	1.20	.07	1041.00
30000.0	413.7	29586.3	.0	230.4	4834.3	.0	10782.7	1852.3	1042.80
2.54	1.80	6.12	.00	.050	.045	.000	.000	1031.30	9480.00
.002499	605.	629.	630.	2	15	0	.00	847.33	10327.33

\*SECNO 10.846  
3280 CROSS SECTION 10.85 EXTENDED 1.14 FEET

3470 ENCROACHMENT STATIONS=	9580.0	10310.0	TYPE=	1	TARGET=	730.000			
10.846	11.74	1043.34	1039.89	1043.16	1043.97	.63	1.24	.02	1039.00
30000.0	1722.9	28276.4	.7	527.2	4355.5	.9	10840.0	1861.4	1042.90
2.57	3.27	6.49	.78	.050	.045	.050	.000	1031.60	9580.00
.002471	510.	501.	480.	2	15	0	.00	730.00	10310.00

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SECNO	DEPTH	CWSEL	CRISW	WSELK	EG	HV	HL	OLOSS	L-BANK ELEV
Q	QLOB	QCH	QROB	ALOB	ACH	AROB	VOL	TWA	R-BANK ELEV
TIME	VLOB	VCH	VROB	XNL	XNCH	XNR	WTN	ELMIN	SSTA
SLOPE	XLOBL	XLCH	XLOBR	ITRIAL	IDC	ICONT	CORAR	TOPWID	ENDST

\*SECNO 10.942

3470 ENCROACHMENT STATIONS=	9570.0	10380.0	TYPE=	1	TARGET=	810.000			
10.942	10.33	1044.53	1040.07	1044.33	1044.95	.42	.96	.02	1041.00
30000.0	449.6	29549.7	.7	249.7	5634.4	1.7	10902.6	1870.5	1042.30
2.59	1.80	5.24	.40	.050	.045	.095	.000	1034.20	9570.00
.001499	550.	504.	450.	2	8	0	.00	810.00	10380.00

\*SECNO 11.029

3470 ENCROACHMENT STATIONS=	9480.0	10410.0	TYPE=	1	TARGET=	930.000			
11.029	10.59	1045.29	1041.21	1045.09	1045.63	.34	.67	.01	1045.10
30000.0	.5	29983.2	16.3	2.1	6426.8	1.7	10967.8	1879.6	1042.30
2.62	.24	4.67	.93	.050	.045	.095	.000	1034.70	9491.23
.001437	485.	460.	415.	2	14	0	.00	918.77	10410.00

\*SECNO 11.128

3470 ENCROACHMENT STATIONS=	9430.0	10325.0	TYPE=	1	TARGET=	895.000			
11.128	10.71	1046.11	1042.51	1045.95	1046.49	.38	.84	.01	1038.70
30000.0	2676.1	27323.9	.1	603.1	5458.8	.3	11043.2	1890.6	1045.40
2.65	4.44	5.01	.27	.050	.045	.095	.000	1035.40	9430.00

.001808 535. 525. 500. 2 23 0 .00 895.00 10325.00

\*SECNO 11.224

3470 ENCROACHMENT STATIONS= 9450.0 10262.0 TYPE= 1 TARGET= 812.000  
 11.224 8.96 1047.06 1043.75 1046.82 1047.54 .48 1.02 .03 1041.90  
 30000.0 5539.1 24460.8 .1 1179.4 4270.9 .3 11109.4 1900.4 1046.50  
 2.68 4.70 5.73 .31 .050 .045 .095 .000 1038.10 9450.00  
 .002306 470. 507. 535. 2 11 0 .00 812.00 10262.00

\*SECNO 11.325

3265 DIVIDED FLOW

3301 HV CHANGED MORE THAN HVINS

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SECNO	DEPTH	CWSEL	CRWS	WSELK	EG	HV	HL	OLOSS	L-BANK ELEV
Q	QLOB	QCH	QROB	ALOB	ACH	AROB	VOL	TWA	R-BANK ELEV
TIME	VLOB	VCH	VROB	XNL	XNCH	XNR	WTN	ELMIN	SSTA
SLOPE	XLOBL	XLCH	XLOBR	ITRIAL	IDC	ICONT	CORAR	TOPWID	ENDST

3302 WARNING: CONVEYANCE CHANGE OUTSIDE OF ACCEPTABLE RANGE, KRATIO = .52

3470 ENCROACHMENT STATIONS= 9570.0 10190.0 TYPE= 1 TARGET= 620.000  
 11.325 8.93 1048.33 1047.22 1048.30 1050.00 1.66 2.10 .36 1048.20  
 30000.0 854.3 29116.3 29.4 204.2 2779.0 14.5 11160.2 1908.6 1046.20  
 2.69 4.18 10.48 2.03 .050 .045 .095 .000 1039.40 9570.00  
 .008564 480. 532. 575. 2 11 0 .00 563.51 10190.00

CCHV= .300 CEHV= .500  
 \*SECNO 11.410

3301 HV CHANGED MORE THAN HVINS

3302 WARNING: CONVEYANCE CHANGE OUTSIDE OF ACCEPTABLE RANGE, KRATIO = 1.60

3470 ENCROACHMENT STATIONS= 9640.0 10253.1 TYPE= 1 TARGET= 613.100  
 \*\*\*\*\*  
 \*\*\*\*\* GLENDALE ROAD \*\*\*\*\*  
 \*\*\*\*\* LOW CHORD = 1057.5 \*\*\*\*\*  
 \*\*\*\*\*  
 11.410 9.93 1051.73 1048.76 1051.71 1052.54 .81 2.29 .26 1056.60  
 30000.0 .0 29914.1 85.9 .0 4140.8 41.0 11197.2 1914.4 1045.50  
 2.71 .00 7.22 2.10 .000 .045 .095 .000 1041.80 9650.61  
 .003366 330. 451. 580. 3 15 0 .00 577.38 10228.00

SPECIAL BRIDGE

SB	XK	XKOR	COFQ	RDLEN	BWC	BWP	BAREA	SS	ELCHU	ELCHD
1.05	1.56	2.70	.00	535.00	15.00	7069.00	1.50	1044.40	1044.40	

\*SECNO 11.428

BTCARD, BRIDGE STENCL= 9600.00 STENCR= 10253.10

3301 HV CHANGED MORE THAN HVINS

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SECNO	DEPTH	CWSEL	CRWS	WSELK	EG	HV	HL	OLOSS	L-BANK ELEV
Q	QLOB	QCH	QROB	ALOB	ACH	AROB	VOL	TWA	R-BANK ELEV
TIME	VLOB	VCH	VROB	XNL	XNCH	XNR	WTN	ELMIN	SSTA
SLOPE	XLOBL	XLCH	XLOBR	ITRIAL	IDC	ICONT	CORAR	TOPWID	ENDST

CLASS A LOW FLOW

3420 BRIDGE W.S.= 1051.67 BRIDGE VELOCITY= 7.78 CALCULATED CHANNEL AREA= 3858.

EGPRS	EGLWC	H3	QWEIR	QLOW	BAREA	TRAPEZOID AREA	ELLC	ELTRD	WEIRLN
.00	1053.13	.07	0.	30000.	7069.	7069.	1057.50	1065.40	0.

3470 ENCROACHMENT STATIONS= 9600.0 10253.1 TYPE= 1 TARGET= 653.100  
 11.428 10.00 1051.80 .00 1051.78 1053.13 1.33 .59 .00 1049.80  
 30000.0 1040.3 28959.7 .0 336.6 3086.1 .0 11209.8 1916.3 1060.10  
 2.71 3.09 9.38 .00 .050 .045 .000 .000 1041.80 9625.36

.004951 145. 145. 145. 0 0 0 .00 566.55 10191.91

\*SECNO 11.460

3301 HV CHANGED MORE THAN HVINS

3470 ENCROACHMENT STATIONS= 9530.0 10194.0 TYPE= 1 TARGET= 664.000  
 11.460 25.06 1052.26 1050.78 1052.25 1054.24 1.98 .78 .33 1052.00  
 34500.0 726.6 33772.2 1.3 648.9 2958.3 1.6 11223.3 1918.6 1046.80  
 2.72 1.12 11.42 .78 .150 .035 .055 .000 1027.20 9530.00  
 .004466 165. 167. 165. 2 21 0 .00 664.00 10194.00

\*SECNO 11.557

3470 ENCROACHMENT STATIONS= 9200.0 10101.0 TYPE= 1 TARGET= 901.000  
 11.557 31.61 1054.41 1053.47 1054.44 1056.83 2.42 2.37 .22 1051.20  
 34500.0 5518.2 28981.8 .0 2998.2 2129.4 .0 11274.5 1927.7 1058.90  
 2.73 1.84 13.61 .00 .150 .035 .000 .000 1022.80 9200.00  
 .004827 510. 511. 510. 2 11 0 .00 892.06 10092.06

\*SECNO 11.653

3265 DIVIDED FLOW

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SECNO	DEPTH	CWSEL	CRISW	WSELK	EG	HV	HL	OLOSS	L-BANK ELEV
Q	QLOB	QCH	QROB	ALOB	ACH	AROB	VOL	TWA	R-BANK ELEV
TIME	VLOB	VCH	VROB	XNL	XNCH	XNR	WTN	ELMIN	SSTA
SLOPE	XLOBL	XLCH	XLOBR	ITRIAL	IDC	ICONT	CORAR	TOPWID	ENDST

3301 HV CHANGED MORE THAN HVINS

3470 ENCROACHMENT STATIONS= 8800.0 10123.0 TYPE= 1 TARGET= 1323.000  
 11.653 35.43 1057.53 1055.68 1057.21 1058.99 1.46 1.87 .29 1057.30  
 34500.0 8506.7 25993.3 .0 5386.1 2335.2 .0 11349.6 1940.6 1058.00  
 2.74 1.58 11.13 .00 .150 .035 .000 .000 1022.10 8800.00  
 .002890 510. 509. 510. 3 9 0 .00 1303.70 10121.09

\*SECNO 11.750

3265 DIVIDED FLOW

3470 ENCROACHMENT STATIONS= 8400.0 10170.0 TYPE= 1 TARGET= 1770.000  
 11.750 36.99 1058.89 1057.67 1058.46 1060.80 1.92 1.58 .23 1061.00  
 34500.0 6347.6 28056.8 95.6 4531.1 2281.1 45.9 11435.0 1958.0 1056.10  
 2.76 1.40 12.30 2.08 .150 .035 .055 .000 1021.90 8400.00  
 .003331 510. 511. 510. 2 5 0 .00 1668.06 10137.88

\*SECNO 11.847

3265 DIVIDED FLOW

3301 HV CHANGED MORE THAN HVINS

3470 ENCROACHMENT STATIONS= 8000.0 10173.0 TYPE= 1 TARGET= 2173.000  
 11.847 40.84 1061.14 1058.84 1060.95 1062.27 1.13 1.23 .24 1063.40  
 34500.0 8767.1 25297.4 435.5 7738.2 2551.3 137.4 11536.3 1980.3 1052.10  
 2.78 1.13 9.92 3.17 .150 .035 .055 .000 1020.30 8000.00  
 .001815 510. 512. 510. 3 9 0 .00 2138.41 10148.90

\*SECNO 11.900

3265 DIVIDED FLOW

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SECNO	DEPTH	CWSEL	CRISW	WSELK	EG	HV	HL	OLOSS	L-BANK ELEV
Q	QLOB	QCH	QROB	ALOB	ACH	AROB	VOL	TWA	R-BANK ELEV
TIME	VLOB	VCH	VROB	XNL	XNCH	XNR	WTN	ELMIN	SSTA
SLOPE	XLOBL	XLCH	XLOBR	ITRIAL	IDC	ICONT	CORAR	TOPWID	ENDST

3301 HV CHANGED MORE THAN HVINS

3470 ENCROACHMENT STATIONS= 7750.0 10198.5 TYPE= 1 TARGET= 2448.500

11.900	16.18	1061.38	1060.10	1061.12	1063.33	1.95	.65	.41	1064.40
34500.0	4359.7	29663.4	476.9	4015.5	2457.2	167.6	11598.8	1995.8	1058.50
2.78	1.09	12.07	2.85	.150	.035	.055	.000	1045.20	7750.00
.002925	340.	273.	275.	2	21	0	.00	1934.89	10158.38

\*SECNO 11.943

3265 DIVIDED FLOW

3301 HV CHANGED MORE THAN HVINS

3470 ENCROACHMENT STATIONS=	7650.0	10182.0	TYPE=	1	TARGET=	2532.000			
11.943	33.70	1063.10	1060.85	1062.73	1064.09	1.00	.48	.29	1067.50
34500.0	10343.2	23770.4	386.4	9063.8	2473.8	129.1	11635.5	2003.6	1054.60
2.79	1.14	9.61	2.99	.150	.035	.055	.000	1029.40	7650.00
.001711	150.	236.	235.	4	29	0	.00	2303.78	10123.18

\*SECNO 12.042

3470 ENCROACHMENT STATIONS=	7400.0	10165.0	TYPE=	1	TARGET=	2765.000			
12.042	15.99	1064.49	1061.85	1063.97	1065.00	.51	.76	.15	1063.00
34500.0	17607.0	16837.5	55.5	14893.5	2083.6	49.3	11801.3	2032.5	1062.00
2.82	1.18	8.08	1.13	.150	.035	.055	.000	1048.50	7400.00
.001297	500.	520.	540.	2	17	0	.00	2709.49	10109.49

\*SECNO 12.141

3265 DIVIDED FLOW

3470 ENCROACHMENT STATIONS=	7200.0	10080.0	TYPE=	1	TARGET=	2880.000			
12.141	16.03	1065.33	1061.92	1064.63	1065.67	.34	.62	.05	1062.90
34500.0	20856.3	13643.7	.0	17729.8	1861.4	.0	12016.4	2064.9	1066.00
2.86	1.18	7.33	.00	.150	.035	.000	.000	1049.30	7200.00
.001115	510.	526.	535.	2	13	0	.00	2821.55	10074.66

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SECNO	DEPTH	CWSEL	CRISW	WSELK	EG	HV	HL	OLOSS	L-BANK	ELEV
Q	QLOB	QCH	QROB	ALOB	ACH	AROB	VOL	TWA	R-BANK	ELEV
TIME	VLOB	VCH	VROB	XLN	XNCH	XNR	WIN	ELMIN	SSTA	
SLOPE	XLOBL	XLCH	XLOBR	ITRIAL	IDC	ICONT	CORAR	TOPWID	ENDST	

\*SECNO 12.247

3470 ENCROACHMENT STATIONS=	7300.0	10086.0	TYPE=	1	TARGET=	2786.000			
12.247	15.32	1066.02	1062.17	1065.21	1066.25	.23	.55	.03	1062.60
34500.0	22122.8	12377.2	.0	19066.0	1973.4	.0	12256.5	2097.9	1066.00
2.91	1.16	6.27	.01	.150	.035	.000	.000	1050.70	7300.00
.000963	510.	560.	565.	2	14	0	.00	2786.00	10086.00

\*SECNO 12.359

3470 ENCROACHMENT STATIONS=	7600.0	10100.0	TYPE=	1	TARGET=	2500.000			
12.359	14.68	1066.38	1060.94	1065.56	1066.62	.23	.37	.00	1065.30
34500.0	12696.4	21268.7	534.8	15167.8	4353.0	236.1	12497.1	2128.9	1054.70
2.96	.84	4.89	2.26	.150	.035	.055	.000	1051.70	7600.00
.000499	500.	586.	580.	2	14	0	.00	2500.00	10100.00

\*SECNO 12.420

3265 DIVIDED FLOW

3470 ENCROACHMENT STATIONS=	7850.0	10200.0	TYPE=	1	TARGET=	2350.000			
12.420	12.62	1066.62	1059.42	1065.74	1066.76	.14	.12	.03	1065.10
34500.0	2222.2	31950.7	327.0	4471.1	10101.5	304.3	12634.6	2148.5	1065.20
2.99	.50	3.16	1.07	.150	.035	.055	.000	1054.00	7850.00
.000288	380.	302.	270.	0	18	0	.00	2343.27	10200.00

CCHV= .100 CEHV= .300

\*SECNO 12.470

3265 DIVIDED FLOW

3470 ENCROACHMENT STATIONS=	8000.0	10300.0	TYPE=	1	TARGET=	2300.000			
12.470	11.79	1066.69	1062.23	1065.84	1066.86	.17	.09	.01	1064.00
34500.0	7737.4	26752.5	10.1	3908.4	7330.1	9.4	12708.6	2161.0	1064.00
3.01	1.98	3.65	1.07	.045	.035	.040	.000	1054.90	8000.00
.000466	230.	255.	240.	2	11	0	.00	2146.98	10300.00

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SECNO	DEPTH	CWSEL	CRISW	WSELK	EG	HV	HL	OLOSS	L-BANK ELEV
Q	QLOB	QCH	QROB	ALOB	ACH	AROB	VOL	TWA	R-BANK ELEV
TIME	VLOB	VCH	VROB	XNL	XNCH	XNR	WTN	ELMIN	SSTA
SLOPE	XLOBL	XLCH	XLOBR	ITRIAL	IDC	ICONT	CORAR	TOPWID	ENDST

\*SECNO 12.529

3265 DIVIDED FLOW

3470 ENCROACHMENT STATIONS=	8200.0	10393.3	TYPE=	1	TARGET=	2193.300			
12.529	10.71	1066.81	1062.09	1065.99	1067.03	.22	.16	.01	1062.10
34500.0	5625.3	28708.6	166.1	2852.5	7066.9	93.4	12782.4	2173.2	1060.50
3.03	1.97	4.06	1.78	.045	.035	.040	.000	1056.10	8200.00
.000510	210.	345.	390.	0	8	0	.00	1777.18	10391.92

\*SECNO 12.630

3470 ENCROACHMENT STATIONS=	9080.0	10500.0	TYPE=	1	TARGET=	1420.000			
12.630	11.13	1067.03	1063.09	1066.35	1067.47	.44	.37	.07	1061.30
34500.0	115.9	32568.8	1815.3	81.7	6010.5	529.0	12883.8	2189.6	1061.90
3.06	1.42	5.42	3.43	.045	.035	.040	.000	1055.90	9561.76
.001029	520.	533.	550.	2	19	0	.00	938.24	10500.00

\*SECNO 12.725

3470 ENCROACHMENT STATIONS=	9550.0	10530.0	TYPE=	1	TARGET=	980.000			
12.725	20.75	1067.55	1064.37	1066.71	1068.12	.57	.61	.04	1065.40
34500.0	43.3	32677.7	1778.9	32.6	5305.3	504.5	12955.0	2200.0	1063.30
3.08	1.33	6.16	3.53	.045	.035	.040	.000	1046.80	9651.72
.001479	530.	500.	470.	2	21	0	.00	878.28	10530.00

\*SECNO 12.816

3470 ENCROACHMENT STATIONS=	9750.0	10488.0	TYPE=	1	TARGET=	738.000			
12.816	26.61	1068.21	1065.41	1067.59	1069.03	.82	.83	.08	1063.60
34500.0	48.5	32906.3	1545.2	20.1	4458.5	370.7	13013.7	2208.7	1064.10
3.10	2.41	7.38	4.17	.045	.035	.040	.000	1041.60	9772.48
.002068	520.	482.	440.	2	12	0	.00	702.66	10475.14

\*SECNO 12.913

3470 ENCROACHMENT STATIONS=	9704.0	10318.0	TYPE=	1	TARGET=	614.000			
12.913	29.56	1069.26	1066.84	1068.99	1070.37	1.11	1.26	.09	1071.20
34500.0	.0	34326.5	173.5	.0	4052.6	45.2	13066.5	2216.3	1063.70
3.12	.00	8.47	3.84	.000	.035	.040	.000	1039.70	9712.23
.002943	510.	513.	535.	2	9	0	.00	589.71	10301.94

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SECNO	DEPTH	CWSEL	CRISW	WSELK	EG	HV	HL	OLOSS	L-BANK ELEV
Q	QLOB	QCH	QROB	ALOB	ACH	AROB	VOL	TWA	R-BANK ELEV
TIME	VLOB	VCH	VROB	XNL	XNCH	XNR	WTN	ELMIN	SSTA
SLOPE	XLOBL	XLCH	XLOBR	ITRIAL	IDC	ICONT	CORAR	TOPWID	ENDST

\*SECNO 13.007

3301 HV CHANGED MORE THAN HVINS

3470 ENCROACHMENT STATIONS=	9767.0	10239.0	TYPE=	1	TARGET=	472.000			
13.007	8.54	1070.54	1068.71	1070.43	1072.27	1.73	1.71	.19	1072.30
34500.0	.0	33727.6	772.4	.0	3170.4	126.2	13108.4	2222.1	1062.00
3.13	.00	10.64	6.12	.000	.035	.040	.000	1062.00	9774.42
.004136	490.	494.	495.	2	17	0	.00	441.24	10215.66

\*SECNO 13.103

3301 HV CHANGED MORE THAN HVINS

3302 WARNING: CONVEYANCE CHANGE OUTSIDE OF ACCEPTABLE RANGE, KRATIO = 1.54

3470 ENCROACHMENT STATIONS=	9830.0	10342.0	TYPE=	1	TARGET=	512.000			
13.103	10.22	1072.72	1068.83	1072.73	1073.65	.93	1.30	.08	1071.60
34500.0	.3	34491.1	8.7	.4	4458.0	5.9	13153.4	2227.6	1070.80
3.15	.61	7.74	1.46	.045	.035	.040	.000	1062.50	9830.00
.001747	505.	505.	515.	2	15	0	.00	494.58	10324.58

\*SECNO 13.200

3470 ENCROACHMENT STATIONS=	9805.0	10419.0	TYPE=	1	TARGET=	614.000				
13.200	10.72	1073.72	1068.35	1073.63	1074.33	.62	.66	.03	1071.70	
34500.0	.6	33812.0	687.5	1.0	5331.7	222.2	13212.4	2233.7	1063.00	
3.17	.57	6.34	3.09	.045	.035	.045	.000	1063.00	9805.00	
.000977	510.	513.	515.	2	11	0	.00	551.16	10356.16	

\*SECNO 13.296

3470 ENCROACHMENT STATIONS=	9590.0	10380.0	TYPE=	1	TARGET=	790.000				
13.296	10.83	1074.33	1068.61	1074.23	1074.78	.45	.43	.02	1073.50	
34500.0	85.1	34142.4	272.5	92.1	6342.1	100.5	13283.1	2241.3	1065.60	
3.20	.92	5.38	2.71	.045	.035	.045	.000	1063.50	9600.24	
.000726	500.	510.	500.	2	11	0	.00	742.85	10343.09	

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SECNO	DEPTH	CWSEL	CRISW	WSELK	EG	HV	HL	OLOSS	L-BANK ELEV
Q	QLOB	QCH	QROB	ALOB	ACH	AROB	VOL	TWA	R-BANK ELEV
TIME	VLOB	VCH	VROB	XNL	XNCH	XNR	WTN	ELMIN	SSTA
SLOPE	XLOBL	XLCH	XLOBR	ITRIAL	IDC	ICONT	CORAR	TOPWID	ENDST

\*SECNO 13.395

3265 DIVIDED FLOW

3302 WARNING: CONVEYANCE CHANGE OUTSIDE OF ACCEPTABLE RANGE, KRATIO = .58

3470 ENCROACHMENT STATIONS=	9210.0	10352.0	TYPE=	1	TARGET=	1142.000				
13.395	10.83	1074.83	1072.21	1074.73	1075.42	.59	.61	.04	1075.20	
34500.0	17.2	34481.5	1.4	14.8	5592.4	1.4	13355.8	2251.9	1073.80	
3.22	1.16	6.17	.94	.045	.035	.045	.000	1064.00	9227.64	
.002142	505.	522.	515.	2	14	0	.00	1028.17	10326.19	

CCHV= .300 CEHV= .500  
\*SECNO 13.450

3302 WARNING: CONVEYANCE CHANGE OUTSIDE OF ACCEPTABLE RANGE, KRATIO = 1.56

3470 ENCROACHMENT STATIONS=	8830.0	10253.0	TYPE=	1	TARGET=	1423.000				
***** ***** OLIVE AVENUE ***** ***** LOW CHORD = 1086.4 ***** *****										
13.450	11.81	1075.61	1072.16	1075.55	1075.90	.29	.38	.09	1071.40	
34500.0	571.4	33928.6	.0	309.0	7850.0	.0	13401.7	2259.9	1084.50	
3.24	1.85	4.32	.00	.045	.035	.000	.000	1063.80	8837.26	
.000880	290.	290.	290.	2	14	0	.00	1385.35	10222.62	

SPECIAL BRIDGE

SB	XK	XKOR	COFQ	RDLEN	BWC	BWP	BAREA	SS	ELCHU	ELCHD
1.05	1.56	2.70	.00	1400.00	99.00	21608.27	3.00	1070.00	1070.00	

\*SECNO 13.467  
CLASS A LOW FLOW

3420 BRIDGE W.S.= 1075.56 BRIDGE VELOCITY= 4.71 CALCULATED CHANNEL AREA= 7322.

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SECNO	DEPTH	CWSEL	CRISW	WSELK	EG	HV	HL	OLOSS	L-BANK ELEV
Q	QLOB	QCH	QROB	ALOB	ACH	AROB	VOL	TWA	R-BANK ELEV
TIME	VLOB	VCH	VROB	XNL	XNCH	XNR	WTN	ELMIN	SSTA
SLOPE	XLOBL	XLCH	XLOBR	ITRIAL	IDC	ICONT	CORAR	TOPWID	ENDST

EGPRS	EGLWC	H3	QWEIR	QLOW	BAREA	TRAPEZOID AREA	ELLC	ELTRD	WEIRLN
.00	1075.95	.04	.0	34500.	21608.	27647.	1090.30	1092.80	.0
13.467	11.55	1075.65	.00	1075.59	1075.95	.30	.05	.00	1090.90
34500.0	.0	34500.0	.0	.0	7896.5	.0	13418.3	2262.8	1090.60
3.25	.00	4.37	.00	.000	.035	.000	.000	1064.10	8782.98
.001077	90.	90.	90.	0	0	0	.00	1420.37	10203.35

\*SECNO 13.518

3265 DIVIDED FLOW

3302 WARNING: CONVEYANCE CHANGE OUTSIDE OF ACCEPTABLE RANGE, KRATIO = .45

3470 ENCROACHMENT STATIONS= 8740.0 10214.0 TYPE= 1 TARGET= 1474.000  
 13.518 11.75 1075.95 1074.71 1075.93 1076.74 .79 .55 .25 1073.00  
 34500.0 848.0 33399.5 252.6 178.1 4640.4 46.9 13457.8 2271.4 1067.20  
 3.26 4.76 7.20 5.39 .045 .035 .045 .000 1064.20 8740.00  
 .005234 260. 270. 260. 2 14 0 .00 1361.72 10200.31

CCHV= .100 CEHV= .300  
 \*SECNO 13.565

3470 ENCROACHMENT STATIONS= 8800.0 10247.7 TYPE= 1 TARGET= 1447.700  
 13.565 11.48 1077.28 1075.82 1077.18 1077.98 .70 1.22 .01 1074.20  
 34500.0 1112.6 33387.4 .0 252.1 4937.8 .0 13486.9 2279.5 10000.00  
 3.27 4.41 6.76 .00 .045 .035 .000 .000 1065.80 8800.00  
 .004497 245. 252. 255. 2 12 0 .00 1431.25 10231.25

\*SECNO 13.663

3265 DIVIDED FLOW

3470 ENCROACHMENT STATIONS= 9020.0 10354.0 TYPE= 1 TARGET= 1334.000

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SECNO	DEPTH	CWSEL	CRISW	WSELK	EG	HV	HL	OLOSS	L-BANK ELEV
Q	QLOB	QCH	QROB	ALOB	ACH	AROB	VOL	TWA	R-BANK ELEV
TIME	VLOB	VCH	VROB	XNL	XNCH	XNR	WTN	ELMIN	SSTA
SLOPE	XLOBL	XLCH	XLOBR	ITRIAL	IDC	ICONT	CORAR	TOPWID	ENDST
13.663	13.69	1079.39	1077.83	1079.17	1080.05	.66	2.08	.00	1075.70
34500.0	3241.9	30852.8	405.3	718.0	4584.6	84.7	13549.3	2295.6	1074.40
3.29	4.52	6.73	4.79	.045	.035	.045	.000	1065.70	9020.00
.003644	505.	515.	535.	3	9	0	.00	1304.96	10354.00

\*SECNO 13.760

3470 ENCROACHMENT STATIONS= 9220.0 10427.0 TYPE= 1 TARGET= 1207.000  
 13.760 13.31 1081.21 1079.38 1080.91 1081.86 .64 1.80 .00 1077.50  
 34500.0 4603.8 18421.3 11474.9 1048.5 2815.5 1649.4 13613.2 2310.4 1071.20  
 3.31 4.39 6.54 6.96 .045 .035 .045 .000 1067.90 9220.00  
 .003411 505. 511. 515. 2 9 0 .00 1207.00 10427.00

\*SECNO 13.856

3470 ENCROACHMENT STATIONS= 9380.0 10419.9 TYPE= 1 TARGET= 1039.900  
 13.856 11.36 1082.56 1080.33 1082.22 1083.21 .65 1.35 .00 1078.20  
 34500.0 2116.2 24928.0 7455.8 676.7 3497.4 1602.1 13679.2 2323.5 1075.70  
 3.33 3.13 7.13 4.65 .045 .035 .045 .000 1071.20 9380.00  
 .002111 505. 510. 510. 2 20 0 .00 1039.90 10419.90

\*SECNO 13.952

3470 ENCROACHMENT STATIONS= 9400.0 10384.0 TYPE= 1 TARGET= 984.000  
 13.952 10.43 1083.73 1082.60 1083.52 1084.74 1.01 1.43 .11 1083.00  
 34500.0 39.6 30726.1 3734.3 24.0 3649.3 882.6 13739.5 2335.3 1081.40  
 3.35 1.65 8.42 4.23 .045 .035 .045 .000 1073.30 9400.00  
 .003907 505. 508. 510. 2 14 0 .00 984.00 10384.00

\*SECNO 14.049

3470 ENCROACHMENT STATIONS= 9280.0 10310.0 TYPE= 1 TARGET= 1030.000  
 14.049 11.33 1085.83 1084.47 1085.81 1086.67 .83 1.91 .02 1084.70  
 34500.0 16.6 31889.0 2594.4 8.7 4242.4 604.9 13794.7 2347.1 1083.20  
 3.37 1.92 7.52 4.29 .045 .035 .045 .000 1074.50 9280.00  
 .003560 500. 512. 505. 3 10 0 .00 1030.00 10310.00

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SECNO	DEPTH	CWSEL	CRISW	WSELK	EG	HV	HL	OLOSS	L-BANK ELEV
Q	QLOB	QCH	QROB	ALOB	ACH	AROB	VOL	TWA	R-BANK ELEV
TIME	VLOB	VCH	VROB	XNL	XNCH	XNR	WTN	ELMIN	SSTA
SLOPE	XLOBL	XLCH	XLOBR	ITRIAL	IDC	ICONT	CORAR	TOPWID	ENDST

\*SECNO 14.145

3470 ENCROACHMENT STATIONS= 9160.0 10350.0 TYPE= 1 TARGET= 1190.000  
 14.145 10.64 1087.54 1085.48 1087.49 1088.07 .53 1.38 .03 1090.70  
 34500.0 .0 34014.1 485.9 .0 5770.1 176.9 13857.8 2359.9 1085.00

3.40	.00	5.89	2.75	.000	.035	.045	.000	1076.90	9180.01
.002123	500.	510.	500.	2	14	0	.00	1169.99	10350.00

\*SECNO 14.240

3470 ENCROACHMENT STATIONS=	9120.0	10400.0	TYPE=	1	TARGET=	1280.000			
14.240	8.44	1088.74	1087.09	1088.61	1089.33	.59	1.24	.02	1089.90
34500.0	.0	34475.8	24.2	.0	5578.2	12.2	13924.1	2374.0	1087.50
3.42	.00	6.18	1.99	.000	.035	.045	.000	1080.30	9133.48
.002918	365.	500.	550.	2	14	0	.00	1266.52	10400.00

\*SECNO 14.335

3280 CROSS SECTION 14.34 EXTENDED .35 FEET

3470 ENCROACHMENT STATIONS=	9110.0	10460.0	TYPE=	1	TARGET=	1350.000			
14.335	10.45	1090.25	1088.79	1089.94	1090.89	.63	1.55	.01	1089.50
34500.0	4.5	34050.8	444.7	4.1	5301.1	168.7	13987.5	2389.0	1088.40
3.44	1.10	6.42	2.64	.045	.035	.045	.000	1079.80	9110.00
.003307	400.	499.	530.	2	8	0	.00	1350.00	10460.00

\*SECNO 14.430

3470 ENCROACHMENT STATIONS=	9160.0	10520.0	TYPE=	1	TARGET=	1360.000			
14.430	8.63	1091.83	1090.15	1091.43	1092.46	.63	1.57	.00	1092.10
34500.0	.0	33804.7	695.3	.0	5267.8	308.8	14051.5	2404.7	1090.10
3.46	.00	6.42	2.25	.000	.035	.045	.000	1083.20	9172.60
.002933	410.	503.	540.	2	23	0	.00	1347.40	10520.00

\*SECNO 14.525

3265 DIVIDED FLOW

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SECNO	DEPTH	CWSEL	CRISW	WSELK	EG	HV	HL	OLOSS	L-BANK ELEV
Q	QLOB	QCH	QROB	ALOB	ACH	AROB	VOL	TWA	R-BANK ELEV
TIME	VLOB	VCH	VROB	XNL	XNCH	XNR	WTN	ELMIN	SSTA
SLOPE	XLOBL	XLCH	XLOBR	ITRIAL	IDC	ICONT	CORAR	TOPWID	ENDST

3470 ENCROACHMENT STATIONS=	9230.0	10600.0	TYPE=	1	TARGET=	1370.000			
14.525	9.99	1093.19	1090.78	1092.71	1093.62	.43	1.15	.02	1093.90
34500.0	.0	29052.4	5447.6	.0	5313.0	1322.4	14123.0	2420.2	1092.30
3.49	.00	5.47	4.12	.000	.035	.045	.000	1083.20	9236.05
.001787	425.	504.	545.	2	10	0	.00	1301.88	10600.00

\*SECNO 14.619

3265 DIVIDED FLOW

3470 ENCROACHMENT STATIONS=	9305.0	10785.0	TYPE=	1	TARGET=	1480.000			
14.619	7.90	1094.20	1092.84	1093.83	1094.92	.72	1.21	.09	1095.20
34500.0	.0	30399.9	4100.1	.0	4277.6	1089.4	14192.3	2436.4	1092.10
3.51	.00	7.11	3.76	.000	.035	.045	.000	1086.30	9311.10
.003446	410.	494.	540.	2	14	0	.00	1464.75	10785.00

\*SECNO 14.708

3265 DIVIDED FLOW

3470 ENCROACHMENT STATIONS=	9410.0	11140.0	TYPE=	1	TARGET=	1730.000			
14.708	7.41	1095.81	1094.92	1095.68	1096.66	.85	1.70	.04	1095.10
34500.0	12.4	30572.1	3915.5	9.6	3932.7	1396.4	14251.0	2454.1	1092.60
3.53	1.29	7.77	2.80	.045	.035	.045	.000	1088.40	9410.00
.003737	425.	471.	500.	2	15	0	.00	1720.07	11140.00

\*SECNO 14.809

3470 ENCROACHMENT STATIONS=	9455.0	10235.0	TYPE=	1	TARGET=	780.000			
14.809	10.31	1097.41	1095.00	1097.10	1098.32	.91	1.64	.02	1095.90
34500.0	257.3	34129.0	113.7	119.9	4435.2	54.2	14311.7	2469.4	1095.20
3.55	2.15	7.69	2.10	.045	.035	.045	.000	1087.10	9455.00
.002597	510.	531.	540.	2	8	0	.00	780.00	10235.00

\*SECNO 14.905

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SECNO	DEPTH	CWSEL	CRISW	WSELK	EG	HV	HL	OLOSS	L-BANK ELEV
Q	QLOB	QCH	QROB	ALOB	ACH	AROB	VOL	TWA	R-BANK ELEV

TIME	VLOB	VCH	VROB	XNL	XNCH	XNR	WTN	ELMIN	SSTA
SLOPE	XLOBL	XLCH	XLOBR	ITRIAL	IDC	ICONT	CORAR	TOPWID	ENDST
3470 ENCROACHMENT STATIONS=			9330.0	10160.0	TYPE=	1	TARGET=	830.000	
14.905	10.20	1098.80	1095.85	1098.61	1099.43		.63	1.09	.03
34500.0	672.1	31188.9	2639.0	214.9	4776.7	549.2	14371.0	2478.8	1092.80
3.57	3.13	6.53	4.81	.045	.035	.045	.000	1088.60	9330.00
.001787	500.	509.	510.	2	19	0	.00	830.00	10160.00

\*SECNO 15.000

3470 ENCROACHMENT STATIONS=			9290.0	10130.0	TYPE=	1	TARGET=	840.000	
15.000	10.95	1099.75	1097.94	1099.39	1100.63		.88	1.12	.08
34500.0	182.9	33827.1	490.0	81.5	4458.4	140.8	14429.7	2488.4	1097.00
3.59	2.25	7.59	3.48	.045	.035	.045	.000	1088.80	9290.00
.002900	500.	501.	495.	2	10	0	.00	840.00	10130.00

\*SECNO 15.094

3470 ENCROACHMENT STATIONS=			9330.0	10190.0	TYPE=	1	TARGET=	860.000	
15.094	11.29	1101.19	1098.41	1100.48	1101.84		.65	1.19	.02
34500.0	26.0	32865.2	1608.8	13.0	5024.0	349.6	14487.1	2498.1	1094.70
3.61	2.01	6.54	4.60	.045	.035	.045	.000	1089.90	9330.00
.002019	495.	496.	495.	2	15	0	.00	860.00	10190.00

\*SECNO 15.188

3265 DIVIDED FLOW

3470 ENCROACHMENT STATIONS=			9485.0	10280.0	TYPE=	1	TARGET=	795.000	
15.188	13.10	1102.10	1100.08	1101.32	1103.13		1.03	1.17	.11
34500.0	74.7	33278.7	1146.7	25.7	4019.2	405.9	14542.5	2507.3	1100.40
3.63	2.90	8.28	2.82	.045	.035	.045	.000	1089.00	9485.00
.002839	550.	495.	435.	2	6	0	.00	791.69	10280.00

\*SECNO 15.281

3470 ENCROACHMENT STATIONS=			9660.0	10370.0	TYPE=	1	TARGET=	710.000	
15.281	10.80	1103.40	1102.25	1102.87	1104.90		1.50	1.63	.14
34500.0	2438.8	28214.7	3846.6	406.8	2661.3	871.8	14589.2	2515.5	1101.40
3.64	5.99	10.60	4.41	.045	.035	.045	.000	1092.60	9660.00
.003960	560.	491.	425.	2	19	0	.00	710.00	10370.00

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SECNO	DEPTH	CWSEL	CRWS	WSELK	EG	HV	HL	OLOSS	L-BANK ELEV
Q	QLOB	QCH	QROB	ALOB	ACH	AROB	VOL	TWA	R-BANK ELEV
TIME	VLOB	VCH	VROB	XNL	XNCH	XNR	WTN	ELMIN	SSTA
SLOPE	XLOBL	XLCH	XLOBR	ITRIAL	IDC	ICONT	CORAR	TOPWID	ENDST

\*SECNO 15.374

3301 HV CHANGED MORE THAN HVINS

3470 ENCROACHMENT STATIONS=			9832.0	10390.0	TYPE=	1	TARGET=	558.000	
15.374	11.20	1105.00	1104.31	1104.26	1107.12		2.12	2.04	.19
34500.0	1.8	29182.7	5315.5	1.4	2332.8	1029.5	14628.6	2522.1	1101.90
3.65	1.28	12.51	5.16	.040	.035	.045	.000	1093.80	9832.00
.004549	540.	491.	400.	1	8	0	.00	558.00	10390.00

\*SECNO 15.469

3280 CROSS SECTION 15.47 EXTENDED .08 FEET

3301 HV CHANGED MORE THAN HVINS

3302 WARNING: CONVEYANCE CHANGE OUTSIDE OF ACCEPTABLE RANGE, KRATIO = 1.62

3470 ENCROACHMENT STATIONS=			9701.0	10330.0	TYPE=	1	TARGET=	629.000	
15.469	12.48	1107.68	1104.34	1106.86	1108.56		.88	1.31	.12
34500.0	7719.1	20574.7	6206.2	1146.3	2420.5	1416.4	14675.2	2528.5	1100.40
3.67	6.73	8.50	4.38	.040	.035	.045	.000	1095.20	9708.89
.001736	515.	502.	440.	2	15	0	.00	621.11	10330.00

\*SECNO 15.564

3470 ENCROACHMENT STATIONS=			9539.0	10220.0	TYPE=	1	TARGET=	681.000	
15.564	12.47	1108.67	1105.19	1107.86	1109.45		.78	.88	.01
34500.0	22052.2	9667.6	2780.2	3278.1	1146.6	749.1	14733.0	2535.6	1103.60

3.69	6.73	8.43	3.71	.040	.035	.045	.000	1096.20	9558.75
.001787	520.	502.	435.	2	19	0	.00	661.25	10220.00

\*SECNO 15.658

3470 ENCROACHMENT STATIONS=	9446.5	10120.0	TYPE=	1	TARGET=	673.500			
15.658	12.53	1109.63	1105.76	1109.06	1110.36	.72	.90	.01	1107.70
34500.0	24255.1	9471.4	773.5	3582.3	1325.4	179.3	14792.8	2543.3	1103.10
3.71	6.77	7.15	4.31	.040	.035	.040	.000	1097.10	9450.48
.001757	520.	497.	450.	2	19	0	.00	669.52	10120.00

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SECNO	DEPTH	CWSEL	CRISW	WSELK	EG	HV	HL	OLOSS	L-BANK ELEV
Q	QLOB	QCH	QROB	ALOB	ACH	AROB	VOL	TWA	R-BANK ELEV
TIME	VLOB	VCH	VROB	XNL	XNCH	XNR	WTN	ELMIN	SSTA
SLOPE	XLOBL	XLCH	XLOBR	ITRIAL	IDC	ICONT	CORAR	TOPWID	ENDST

\*SECNO 15.719

3470 ENCROACHMENT STATIONS=	9385.2	10150.0	TYPE=	1	TARGET=	764.800			
15.719	16.51	1110.21	1106.15	1109.75	1110.94	.74	.58	.00	1109.40
34500.0	21602.4	12897.6	.0	3407.4	1670.4	.0	14832.6	2548.6	1114.50
3.73	6.34	7.72	.00	.040	.035	.000	.000	1093.70	9386.45
.001652	350.	323.	310.	0	6	0	.00	667.71	10054.16

\*SECNO 15.814

3470 ENCROACHMENT STATIONS=	9375.0	10150.0	TYPE=	1	TARGET=	775.000			
15.814	16.55	1110.95	1108.04	1110.65	1112.02	1.07	.97	.10	1108.90
34500.0	15839.5	18660.5	.0	2400.9	1960.0	.0	14887.2	2556.2	1115.90
3.74	6.60	9.52	.00	.040	.035	.000	.000	1094.40	9383.93
.002296	505.	502.	505.	2	12	0	.00	654.46	10038.40

\*SECNO 15.909

3470 ENCROACHMENT STATIONS=	9330.0	10200.0	TYPE=	1	TARGET=	870.000			
15.909	14.42	1112.22	1107.88	1112.07	1112.89	.67	.84	.04	1108.70
34500.0	15270.6	19229.4	.0	3009.3	2543.8	.0	14943.8	2564.0	1114.10
3.76	5.07	7.56	.00	.040	.035	.000	.000	1097.80	9347.41
.001284	495.	499.	505.	2	14	0	.00	709.05	10056.46

\*SECNO 16.004

3470 ENCROACHMENT STATIONS=	9257.0	10250.0	TYPE=	1	TARGET=	993.000			
16.004	13.28	1112.98	1108.04	1112.87	1113.45	.47	.54	.02	1108.90
34500.0	17311.9	17188.1	.0	3933.3	2688.5	.0	15014.1	2572.8	1122.80
3.79	4.40	6.39	.00	.040	.035	.000	.000	1099.70	9260.48
.000898	505.	501.	500.	2	11	0	.00	802.59	10063.07

\*SECNO 16.099

3470 ENCROACHMENT STATIONS=	9400.0	10082.0	TYPE=	1	TARGET=	682.000			
16.099	12.49	1113.29	1110.14	1113.32	1114.15	.86	.58	.12	1105.50
34500.0	10088.5	24411.5	.0	2159.7	2937.9	.0	15081.7	2581.2	1120.70
3.81	4.67	8.31	.00	.040	.035	.000	.000	1100.80	9400.00
.001564	505.	500.	495.	2	19	0	.00	667.25	10067.25

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SECNO	DEPTH	CWSEL	CRISW	WSELK	EG	HV	HL	OLOSS	L-BANK ELEV
Q	QLOB	QCH	QROB	ALOB	ACH	AROB	VOL	TWA	R-BANK ELEV
TIME	VLOB	VCH	VROB	XNL	XNCH	XNR	WTN	ELMIN	SSTA
SLOPE	XLOBL	XLCH	XLOBR	ITRIAL	IDC	ICONT	CORAR	TOPWID	ENDST

\*SECNO 16.195

3470 ENCROACHMENT STATIONS=	9650.0	10091.0	TYPE=	1	TARGET=	441.000			
16.195	13.16	1113.96	1110.21	1113.70	1115.13	1.17	.89	.10	1105.40
34500.0	2186.4	32313.6	.0	422.9	3636.2	.0	15135.1	2587.6	1122.50
3.83	5.17	8.89	.00	.040	.035	.000	.000	1100.80	9650.00
.001956	510.	507.	505.	2	19	0	.00	427.29	10077.29

\*SECNO 16.289

3470 ENCROACHMENT STATIONS=	9680.0	10090.0	TYPE=	1	TARGET=	410.000			
16.289	14.15	1114.95	1110.88	1114.69	1116.10	1.15	.97	.00	1111.70
34500.0	32.5	34467.5	.0	13.4	3994.9	.0	15181.4	2592.4	1121.80
3.84	2.43	8.63	.00	.040	.035	.000	.000	1100.80	9680.00
.001919	510.	500.	500.	2	19	0	.00	398.86	10078.86

\*SECNO 16.385

3301 HV CHANGED MORE THAN HVINS

7185 MINIMUM SPECIFIC ENERGY  
3720 CRITICAL DEPTH ASSUMED

3470 ENCROACHMENT STATIONS=		9690.0	10107.0	TYPE=	1	TARGET=	417.000				
16.385	11.81	1115.51	1115.51	1115.62	1118.72	3.21	1.87	.62	1114.50		
34500.0	115.4	34384.6	.0	28.5	2387.8	.0	15218.8	2597.0	1127.10		
3.85	4.04	14.40	.00	.040	.035	.000	.000	1103.70	9690.00		
.009842	505.	507.	505.	0	15	0	.00	397.53	10087.53		

\*SECNO 16.471

3301 HV CHANGED MORE THAN HVINS

3302 WARNING: CONVEYANCE CHANGE OUTSIDE OF ACCEPTABLE RANGE, KRATIO = 2.36

3470 ENCROACHMENT STATIONS=		9720.0	10180.0	TYPE=	1	TARGET=	460.000				
16.471	13.93	1119.33	1115.46	1119.12	1120.57	1.24	1.65	.20	1112.00		
36000.0	1167.1	34582.3	250.5	256.9	3816.3	61.3	15252.9	2601.4	1113.60		
3.87	4.54	9.06	4.08	.040	.035	.040	.000	1105.40	9739.26		
.001928	410.	454.	580.	2	15	0	.00	440.61	10179.87		

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SECNO	DEPTH	CWSEL	CRWS	WSELK	EG	HV	HL	OLOSS	L-BANK ELEV
Q	QLOB	QCH	QROB	ALOB	ACH	AROB	VOL	TWA	R-BANK ELEV
TIME	VLOB	VCH	VROB	XNL	XNCH	XNR	WTN	ELMIN	SSTA
SLOPE	XLOBL	XLCH	XLOBR	ITRIAL	IDC	ICONT	CORAR	TOPWLD	ENDST

CCHV= .300 CEHV= .500  
\*SECNO 16.482

3470 ENCROACHMENT STATIONS=		9750.0	10290.0	TYPE=	1	TARGET=	540.000				
***** GRAND AVENUE *****											
***** LOW CHORD = 1126.6 *****											
16.482	14.22	1119.82	1114.90	1119.65	1120.76	.93	.10	.09	1122.10		
36000.0	.0	35995.7	4.3	.0	4643.3	4.9	15258.7	2602.0	1117.60		
3.87	.00	7.75	.87	.000	.035	.040	.000	1105.60	9787.92		
.001427	45.	58.	70.	2	14	0	.00	453.92	10241.84		

SPECIAL BRIDGE

SB	XK	XKOR	COFQ	RDLEN	BWC	BWP	BAREA	SS	ELCHU	ELCHD
	1.05	1.56	2.70	.00	400.00	27.00	8080.20	3.50	1109.00	1109.00

\*SECNO 16.506  
BTCARD, BRIDGE STENCL= 9730.00 STENCR= 10265.00  
CLASS A LOW FLOW

3420 BRIDGE W.S.=		1119.67	BRIDGE VELOCITY=	8.22	CALCULATED CHANNEL AREA=	4379.			
EGPRS	EGLWC	H3	QWEIR	QLOW	BAREA	TRAPEZOID AREA	ELLC	ELTRD	WEIRLN
.00	1120.93	.16	0.	36000.	8080.	9221.	1129.70	1130.60	0.

3470 ENCROACHMENT STATIONS=		9730.0	10265.0	TYPE=	1	TARGET=	535.000				
16.506	14.58	1119.98	.00	1119.82	1120.93	.95	.17	.00	1122.20		
36000.0	.0	36000.0	.0	.0	4605.7	.0	15272.2	2603.3	1122.40		
3.87	.00	7.82	.00	.000	.035	.000	.000	1105.40	9777.21		
.001589	125.	127.	125.	0	0	0	.00	461.45	10238.66		

\*SECNO 16.514

3470 ENCROACHMENT STATIONS=		9780.0	10251.0	TYPE=	1	TARGET=	471.000				
***** SANTA FE R.R. *****											
***** LOW CHORD = 1129.9 *****											

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SECNO	DEPTH	CWSEL	CRWS	WSELK	EG	HV	HL	OLOSS	L-BANK ELEV
16.514	14.14	1119.84	1116.35	1119.67	1121.24	1.40	.08	.22	1117.10
36000.0	4.3	35348.8	646.8	2.8	3697.3	167.0	15276.3	2603.7	1115.60
3.87	1.56	9.56	3.87	.040	.035	.040	.000	1105.70	9798.47
.002301	42.	42.	42.	2	19	0	.00	427.24	10225.71

SPECIAL BRIDGE

SB	XK	XKOR	COFQ	RDLEN	BWC	BWP	BAREA	SS	ELCHU	ELCHD
	1.05	1.56	2.60	.00	390.00	72.00	7100.00	2.00	1110.00	1110.00

\*SECNO 16.518  
BTCARD, BRIDGE STENCL= 9775.00 STENCR= 10260.00  
CLASS A LOW FLOW

3420 BRIDGE W.S.= 1118.49 BRIDGE VELOCITY= 12.67 CALCULATED CHANNEL AREA= 2842.

EGPRS	EGLWC	H3	QWEIR	QLOW	BAREA	TRAPEZOID AREA	ELLC	ELTRD	WEIRLN
.00	1122.07	1.04	0.	36000.	7100.	7120.	1129.90	1132.00	0.

3470 ENCROACHMENT STATIONS= 9775.0 10260.0 TYPE= 1 TARGET= 485.000

16.518	15.18	1120.88	.00	1120.80	1122.07	1.18	.83	.00	1113.30
36000.0	390.0	34877.6	732.4	97.3	3944.1	206.5	15280.0	2604.1	1115.20
3.88	4.01	8.84	3.55	.050	.040	.050	.000	1105.70	9794.48
.002306	40.	40.	40.	0	0	0	.00	435.41	10229.89

CCHV= .100 CEHV= .300  
\*SECNO 16.612

3470 ENCROACHMENT STATIONS= 9793.5 10286.5 TYPE= 1 TARGET= 493.000

16.612	13.69	1121.99	1117.34	1121.94	1123.18	1.19	1.11	.00	1112.10
36000.0	141.7	35603.0	255.3	45.5	4052.9	79.3	15327.6	2608.6	1115.60
3.89	3.11	8.78	3.22	.050	.040	.050	.000	1108.30	9799.00
.002172	545.	499.	260.	2	14	0	.00	387.28	10186.28

\*SECNO 16.707

3470 ENCROACHMENT STATIONS= 9790.4 10276.3 TYPE= 1 TARGET= 485.899

16.707	15.43	1123.13	1118.09	1123.10	1124.25	1.11	1.06	.01	1112.60
36000.0	181.7	35818.3	.0	55.8	4218.6	.0	15376.1	2613.1	1124.60
3.91	3.26	8.49	.00	.050	.040	.000	.000	1107.70	9794.91
.002076	500.	500.	510.	1	19	0	.00	383.92	10178.83

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SECNO	DEPTH	CWSEL	CRWS	WSELK	EG	HV	HL	OLOSS	L-BANK ELEV
Q	QLOB	QCH	QROB	ALOB	ACH	AROB	VOL	TWA	R-BANK ELEV
TIME	VLOB	VCH	VROB	XNL	XNCH	XNR	WTN	ELMIN	SSTA
SLOPE	XLOBL	XLCH	XLOBR	ITRIAL	IDC	ICONT	CORAR	TOPWID	ENDST

\*SECNO 16.801

3470 ENCROACHMENT STATIONS= 9800.0 10200.0 TYPE= 1 TARGET= 400.000

16.801	21.47	1124.17	1118.47	1124.22	1125.22	1.05	.97	.01	1112.70
36000.0	438.7	35561.3	.0	111.8	4301.0	.0	15425.8	2617.4	1128.10
3.92	3.93	8.27	.00	.050	.040	.000	.000	1102.70	9800.00
.001811	495.	498.	495.	1	8	0	.00	368.08	10168.08

\*SECNO 16.895

3470 ENCROACHMENT STATIONS= 9810.8 10200.0 TYPE= 1 TARGET= 389.200

16.895	15.24	1125.04	1119.57	1124.99	1126.11	1.07	.89	.01	1113.20
36000.0	291.5	35662.3	46.1	84.4	4280.1	23.5	15475.8	2621.6	1120.90
3.94	3.45	8.33	1.96	.050	.040	.050	.000	1109.80	9815.44
.001787	500.	495.	505.	2	14	0	.00	373.52	10188.96

\*SECNO 16.990

3470 ENCROACHMENT STATIONS= 9725.4 10150.0 TYPE= 1 TARGET= 424.600

16.990	35.30	1125.90	1120.49	1125.86	1127.11	1.21	.95	.04	1113.30
36000.0	443.4	35556.6	.0	111.4	4008.9	.1	15524.6	2625.7	1125.60
3.96	3.98	8.87	.01	.050	.040	.050	.000	1090.60	9792.31
.002027	495.	500.	475.	2	18	0	.00	343.55	10135.86

\*SECNO 17.085

3470 ENCROACHMENT STATIONS= 9678.3 10150.0 TYPE= 1 TARGET= 471.700

17.085	38.16	1127.06	1122.13	1127.04	1128.13	1.07	1.01	.01	1121.80
36000.0	42.2	35509.7	448.1	19.1	4256.4	117.8	15573.6	2630.0	1122.40
3.97	2.21	8.34	3.80	.050	.040	.050	.000	1088.90	9728.44
.002009	570.	501.	430.	2	10	0	.00	409.85	10138.29

\*SECNO 17.180

3470 ENCROACHMENT STATIONS= 9630.0 10150.0 TYPE= 1 TARGET= 520.000

17.180	40.42	1128.12	1123.26	1128.12	1129.18	1.06	1.04	.00	1124.80
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36000.0	649.4	35350.6	.0	235.5	4244.1	.0	15624.9	2635.2	1130.90
3.99	2.76	8.33	.00	.050	.040	.000	.000	1087.70	9630.00
.002154	645.	502.	350.	2	10	0	.00	475.68	10105.68

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SECNO	DEPTH	CWSEL	CRISW	WSELK	EG	HV	HL	OLOSS	L-BANK ELEV
Q	QLOB	QCH	QROB	ALOB	ACH	AROB	VOL	TWA	R-BANK ELEV
TIME	VLOB	VCH	VROB	XNL	XNCH	XNR	WTN	ELMIN	SSTA
SLOPE	XLOBL	XLCH	XLOBR	ITRIAL	IDC	ICONT	CORAR	TOPWID	ENDST

\*SECNO 17.277

3301 HV CHANGED MORE THAN HVINS

3302 WARNING: CONVEYANCE CHANGE OUTSIDE OF ACCEPTABLE RANGE, KRATIO = 1.58

3470 ENCROACHMENT STATIONS=	9525.0	10230.0	TYPE=	1	TARGET=	705.000			
17.277	41.96	1129.56	1122.93	1129.54	1129.94	.39	.70	.07	1120.80
36000.0	11142.5	24692.3	165.2	2777.0	4564.8	88.7	15701.2	2642.9	1126.20
4.02	4.01	5.41	1.86	.050	.040	.050	.000	1087.60	9525.00
.000861	700.	512.	305.	2	13	0	.00	705.00	10230.00

\*SECNO 17.370

3470 ENCROACHMENT STATIONS=	9350.0	10208.5	TYPE=	1	TARGET=	858.500			
17.370	43.43	1130.03	1123.83	1129.84	1130.39	.36	.44	.00	1120.50
36000.0	10770.2	25166.0	63.8	3089.4	4739.4	39.7	15796.4	2652.5	1124.40
4.05	3.49	5.31	1.61	.050	.040	.050	.000	1086.60	9350.00
.000811	635.	487.	270.	2	15	0	.00	824.61	10174.61

\*SECNO 17.458

3470 ENCROACHMENT STATIONS=	9280.0	10250.0	TYPE=	1	TARGET=	970.000			
17.458	39.26	1130.46	1124.87	1130.14	1130.82	.36	.42	.00	1126.40
36000.0	1092.5	34735.2	172.3	424.6	7157.1	88.4	15880.2	2662.1	1129.30
4.08	2.57	4.85	1.95	.050	.040	.050	.000	1091.20	9280.00
.001011	485.	467.	350.	2	19	0	.00	970.00	10250.00

\*SECNO 17.548

3265 DIVIDED FLOW

3302 WARNING: CONVEYANCE CHANGE OUTSIDE OF ACCEPTABLE RANGE, KRATIO = .68

3470 ENCROACHMENT STATIONS=	9246.6	10310.0	TYPE=	1	TARGET=	1063.400			
17.548	26.01	1131.01	1127.23	1130.61	1131.54	.53	.67	.05	1126.80
36000.0	.1	35999.9	.0	.4	6140.0	.0	15955.1	2672.7	1136.20
4.10	.29	5.86	.00	.050	.040	.000	.000	1105.00	9246.60
.002162	465.	473.	445.	2	15	0	.00	978.47	10235.59

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SECNO	DEPTH	CWSEL	CRISW	WSELK	EG	HV	HL	OLOSS	L-BANK ELEV
Q	QLOB	QCH	QROB	ALOB	ACH	AROB	VOL	TWA	R-BANK ELEV
TIME	VLOB	VCH	VROB	XNL	XNCH	XNR	WTN	ELMIN	SSTA
SLOPE	XLOBL	XLCH	XLOBR	ITRIAL	IDC	ICONT	CORAR	TOPWID	ENDST

\*SECNO 17.638

3265 DIVIDED FLOW

3301 HV CHANGED MORE THAN HVINS

7185 MINIMUM SPECIFIC ENERGY  
3720 CRITICAL DEPTH ASSUMED

3470 ENCROACHMENT STATIONS=	9285.0	10360.0	TYPE=	1	TARGET=	1075.000			
17.638	27.76	1134.16	1134.16	1133.86	1135.87	1.72	2.35	.35	1130.80
37500.0	20225.4	17245.8	28.8	1973.7	1594.0	11.7	16008.5	2683.7	1134.60
4.11	10.25	10.82	2.46	.050	.040	.050	.000	1106.40	9285.00
.018441	490.	476.	450.	0	10	0	.00	1021.15	10321.67

\*SECNO 17.730

3280 CROSS SECTION 17.73 EXTENDED .10 FEET

3301 HV CHANGED MORE THAN HVINS

3302 WARNING: CONVEYANCE CHANGE OUTSIDE OF ACCEPTABLE RANGE, KRATIO = 2.12

3470 ENCROACHMENT STATIONS=										9330.0	10360.0	TYPE=	1	TARGET=	1030.000				
17.730	38.69	1138.49	1137.20	1138.24	1139.60		1.10	3.66	.06	1136.40									
37500.0	3402.5	33154.5	943.0	980.4	3740.3		255.3	16055.9	2695.0	1134.40									
4.13	3.47	8.86	3.69	.050	.040		.050	.000	1099.80	9330.00									
.004111	475.	486.	490.		4	16	0	.00	1030.00	10360.00									

\*SECNO 17.821

3302 WARNING: CONVEYANCE CHANGE OUTSIDE OF ACCEPTABLE RANGE, KRATIO = 1.44

3470 ENCROACHMENT STATIONS=										9385.0	10270.0	TYPE=	1	TARGET=	885.000				
17.821	10.00	1140.00	1137.18	1139.61	1140.93		.93	1.32	.02	1137.00									
37500.0	3485.7	33715.4	298.9	1142.6	4156.6		118.6	16112.9	2705.5	1138.70									
4.15	3.05	8.11	2.52	.045	.035		.050	.000	1130.00	9385.00									
.001982	475.	478.	480.		2	18	0	.00	885.00	10270.00									

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SECNO	DEPTH	CWSEL	CRISW	WSELK	EG	HV	HL	OLOSS	L-BANK ELEV
Q	QLOB	QCH	QROB	ALOB	ACH	AROB	VOL	TWA	R-BANK ELEV
TIME	VLOB	VCH	VROB	XNL	XNCH	XNR	WTN	ELMIN	SSTA
SLOPE	XLOBL	XLCH	XLOBR	ITRIAL	IDC	ICONT	CORAR	TOPWID	ENDST

\*SECNO 17.910

3302 WARNING: CONVEYANCE CHANGE OUTSIDE OF ACCEPTABLE RANGE, KRATIO = 1.50

3470 ENCROACHMENT STATIONS=										9430.0	10475.0	TYPE=	1	TARGET=	1045.000				
17.910	11.11	1141.11	1136.41	1140.47	1141.57		.47	.59	.05	1138.00									
37500.0	1991.9	31935.5	3572.6	962.6	5484.3		1197.9	16182.2	2715.6	1133.30									
4.17	2.07	5.82	2.98	.045	.035		.050	.000	1130.00	9430.00									
.000877	445.	475.	400.		2	14	0	.00	1045.00	10475.00									

\*SECNO 18.000

3265 DIVIDED FLOW

3470 ENCROACHMENT STATIONS=										9485.0	10555.0	TYPE=	1	TARGET=	1070.000				
18.000	11.60	1141.60	1137.12	1140.86	1142.02		.42	.45	.00	1135.20									
37500.0	732.8	27716.6	9050.6	386.5	4853.6		2488.1	16266.5	2727.0	1136.70									
4.20	1.90	5.71	3.64	.045	.035		.050	.000	1130.00	9485.00									
.000994	435.	475.	500.		2	11	0	.00	1060.62	10555.00									

\*SECNO 18.093

3265 DIVIDED FLOW

3470 ENCROACHMENT STATIONS=										9565.0	10590.0	TYPE=	1	TARGET=	1025.000				
18.093	12.22	1142.12	1138.44	1141.37	1142.65		.53	.60	.03	1138.20									
37500.0	124.4	27037.3	10338.3	78.3	4229.6		2436.0	16349.6	2738.6	1137.80									
4.22	1.59	6.39	4.24	.045	.035		.050	.000	1129.90	9565.00									
.001464	430.	491.	525.		2	19	0	.00	976.43	10590.00									

\*SECNO 18.182

3470 ENCROACHMENT STATIONS=										9600.0	10620.0	TYPE=	1	TARGET=	1020.000				
18.182	13.00	1142.80	1140.10	1142.17	1143.50		.70	.80	.05	1137.10									
37500.0	586.5	26525.1	10388.4	212.4	3519.4		2438.4	16420.5	2749.5	1138.30									
4.24	2.76	7.54	4.26	.045	.035		.050	.000	1129.80	9600.00									
.001963	410.	467.	500.		2	10	0	.00	1020.00	10620.00									

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SECNO	DEPTH	CWSEL	CRISW	WSELK	EG	HV	HL	OLOSS	L-BANK ELEV
Q	QLOB	QCH	QROB	ALOB	ACH	AROB	VOL	TWA	R-BANK ELEV
TIME	VLOB	VCH	VROB	XNL	XNCH	XNR	WTN	ELMIN	SSTA
SLOPE	XLOBL	XLCH	XLOBR	ITRIAL	IDC	ICONT	CORAR	TOPWID	ENDST

\*SECNO 18.275

3470 ENCROACHMENT STATIONS=										9570.0	10670.0	TYPE=	1	TARGET=	1100.000				
18.275	13.72	1143.82	1141.85	1143.41	1144.56		.75	1.05	.01	1139.50									
37500.0	2207.6	27030.5	8262.0	617.6	3468.2		2047.5	16490.7	2761.4	1140.10									
4.26	3.57	7.79	4.04	.045	.035		.050	.000	1130.10	9570.00									

.002284 450. 491. 515. 2 10 0 .00 1083.98 10653.98

\*SECNO 18.369

3302 WARNING: CONVEYANCE CHANGE OUTSIDE OF ACCEPTABLE RANGE, KRATIO = .61

3470 ENCROACHMENT STATIONS= 9550.0 10640.0 TYPE= 1 TARGET= 1090.000  
 18.369 21.18 1145.28 1144.36 1145.02 1146.50 1.23 1.79 .14 1144.70  
 37500.0 1127.2 20937.7 15435.1 321.0 2016.6 2299.8 16553.8 2774.0 1141.70  
 4.28 3.51 10.38 6.71 .045 .035 .050 .000 1124.10 9550.00  
 .006143 435. 499. 540. 2 18 0 .00 1090.00 10640.00

\*SECNO 18.464

3470 ENCROACHMENT STATIONS= 9550.0 10530.0 TYPE= 1 TARGET= 980.000  
 18.464 11.11 1148.11 1146.34 1147.43 1149.03 .92 2.50 .03 1146.20  
 37500.0 2493.9 21607.8 13398.3 578.6 2475.3 2145.6 16612.3 2786.1 1143.40  
 4.30 4.31 8.73 6.24 .045 .035 .050 .000 1137.00 9550.00  
 .003885 435. 500. 555. 2 18 0 .00 980.00 10530.00

\*SECNO 18.558

3470 ENCROACHMENT STATIONS= 9520.0 10465.0 TYPE= 1 TARGET= 945.000  
 18.558 13.47 1149.97 1147.89 1149.05 1150.80 .83 1.76 .01 1146.90  
 37500.0 3718.9 25731.0 8050.2 846.2 3280.6 1206.6 16672.9 2797.0 1144.10  
 4.32 4.39 7.84 6.67 .045 .035 .050 .000 1136.50 9520.00  
 .003160 450. 500. 525. 2 8 0 .00 934.93 10454.93

\*SECNO 18.653

3265 DIVIDED FLOW

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SECNO	DEPTH	CWSEL	CRIWS	WSELK	EG	HV	HL	OLOSS	L-BANK ELEV
Q	QLOB	QCH	QROB	ALOB	ACH	AROB	VOL	TWA	R-BANK ELEV
TIME	VLOB	VCH	VROB	XNL	XNCH	XNR	WTN	ELMIN	SSTA
SLOPE	XLOBL	XLCH	XLOBR	ITRIAL	IDC	ICONT	CORAR	TOPWID	ENDST

3470 ENCROACHMENT STATIONS= 9470.0 10440.0 TYPE= 1 TARGET= 970.000  
 18.653 45.19 1151.49 1149.32 1150.76 1152.25 .76 1.44 .01 1147.50  
 37500.0 5150.1 28734.3 3615.6 1152.2 3852.5 597.7 16735.3 2807.7 1144.00  
 4.34 4.47 7.46 6.05 .045 .035 .050 .000 1106.30 9470.00  
 .002630 445. 502. 535. 2 16 0 .00 965.03 10440.00

\*SECNO 18.748

3470 ENCROACHMENT STATIONS= 9400.0 10350.0 TYPE= 1 TARGET= 950.000  
 18.748 61.25 1152.75 1150.71 1152.38 1153.78 1.03 1.45 .08 1148.00  
 37500.0 6244.1 31255.9 .0 1405.1 3587.4 .0 16794.7 2818.2 1153.90  
 4.35 4.44 8.71 .00 .045 .035 .000 .000 1091.50 9400.00  
 .003314 440. 501. 530. 2 14 0 .00 948.01 10348.01

\*SECNO 18.839

3265 DIVIDED FLOW

3302 WARNING: CONVEYANCE CHANGE OUTSIDE OF ACCEPTABLE RANGE, KRATIO = 1.42

3470 ENCROACHMENT STATIONS= 9350.0 10350.0 TYPE= 1 TARGET= 1000.000  
 18.839 34.37 1154.17 1150.89 1153.92 1154.88 .72 1.07 .03 1149.20  
 37500.0 4242.6 33229.1 28.3 1375.0 4649.3 14.4 16853.9 2828.4 1150.10  
 4.37 3.09 7.15 1.96 .045 .035 .050 .000 1119.80 9350.00  
 .001649 430. 480. 500. 2 12 0 .00 986.71 10344.46

\*SECNO 18.937

3470 ENCROACHMENT STATIONS= 9364.7 10482.5 TYPE= 1 TARGET= 1117.800  
 18.937 9.57 1155.27 1151.65 1155.10 1155.68 .41 .76 .03 1149.20  
 37500.0 11894.6 17243.4 8361.9 2779.9 2931.0 1843.2 16930.9 2840.0 1149.70  
 4.40 4.28 5.88 4.54 .045 .035 .050 .000 1145.70 9366.90  
 .001422 430. 513. 555. 2 25 0 .00 1095.99 10462.89

CCHV= .300 CEHV= .500

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SECNO	DEPTH	CWSEL	CRIWS	WSELK	EG	HV	HL	OLOSS	L-BANK ELEV
Q	QLOB	QCH	QROB	ALOB	ACH	AROB	VOL	TWA	R-BANK ELEV

TIME	VLOB	VCH	VROB	XNL	XNCH	XNR	WTN	ELMIN	SSTA
SLOPE	XLOBL	XLCH	XLOBR	ITRIAL	IDC	ICONT	CORAR	TOPWID	ENDST
*SECNO 18.962									
3470	ENCROACHMENT STATIONS=		9391.2	10535.6	TYPE=	1	TARGET=	1144.399	
***** BELL ROAD *****									
***** LOW CHORD = 1160.5 *****									
18.962	9.24	1155.44	1152.44	1155.28	1155.94	.50	.21	.05	1150.40
37500.0	10998.0	16608.8	9893.2	2379.0	2529.9	1951.4	16952.0	2843.1	1149.10
4.41	4.62	6.57	5.07	.045	.035	.050	.000	1146.20	9417.95
.001939	110.	132.	145.	2	14	0	.00	1065.90	10483.84

SPECIAL BRIDGE

SB	XK	XKOR	COFQ	RDLEN	BWC	BWP	BAREA	SS	ELCHU	ELCHD
	1.05	1.56	2.70	.00	1050.00	60.00	16107.00	2.50	1149.50	1149.50

\*SECNO 18.978  
BTCARD, BRIDGE STENCL= 9397.30 STENCR= 10543.50  
CLASS A LOW FLOW

EGPRS	EGLWC	H3	QWEIR	QLOW	BAREA	TRAPEZOID	ELLC	ELTRD	WEIRLN
3420 BRIDGE W.S.= 1155.35 BRIDGE VELOCITY= 6.38 CALCULATED CHANNEL AREA= 5881.									
.00	1156.10	.08	0.	37500.	16107.	17230.	1166.20	1168.40	0.

3470	ENCROACHMENT STATIONS=		9397.3	10543.5	TYPE=	1	TARGET=	1146.200	
18.978	8.01	1155.51	.00	1155.36	1156.10	.58	.16	.00	1151.20
37500.0	10458.4	16972.9	10068.8	2205.8	2403.7	1769.4	16965.5	2845.3	1147.80
4.41	4.74	7.06	5.69	.045	.035	.050	.000	1147.50	9424.67
.002429	90.	86.	90.	0	0	0	.00	1068.32	10492.99

\*SECNO 19.066

3470	ENCROACHMENT STATIONS=		9350.0	10778.0	TYPE=	1	TARGET=	1428.000	
19.066	7.32	1156.72	1155.10	1156.66	1157.42	.70	1.26	.06	1155.00
37500.0	10028.0	20919.6	6552.4	2032.3	2682.5	1253.3	17028.8	2857.6	1154.30
4.43	4.93	7.80	5.23	.045	.035	.045	.000	1149.40	9356.13
.003262	395.	465.	490.	2	19	0	.00	1355.21	10711.34

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SECNO	DEPTH	CWSEL	CRISW	WSELK	EG	HV	HL	OLOSS	L-BANK	ELEV
Q	QLOB	QCH	QROB	ALOB	ACH	AROB	VOL	TWA	R-BANK	ELEV
TIME	VLOB	VCH	VROB	XNL	XNCH	XNR	WTN	ELMIN	SSTA	
SLOPE	XLOBL	XLCH	XLOBR	ITRIAL	IDC	ICONT	CORAR	TOPWID	ENDST	

CCHV= .100 CEHV= .300  
\*SECNO 19.162

3470	ENCROACHMENT STATIONS=		9240.0	10956.0	TYPE=	1	TARGET=	1716.000	
19.162	7.52	1158.42	1157.13	1158.42	1159.15	.73	1.72	.01	1158.30
37500.0	4150.2	20653.4	12696.4	1091.0	2563.5	2386.3	17097.4	2874.6	1155.10
4.45	3.80	8.06	5.32	.045	.035	.045	.000	1150.90	9240.00
.003644	480.	505.	500.	2	15	0	.00	1644.09	10884.09

\*SECNO 19.256

3265 DIVIDED FLOW

3301 HV CHANGED MORE THAN HVINS

3470	ENCROACHMENT STATIONS=		9175.0	11047.0	TYPE=	1	TARGET=	1872.000	
19.256	6.83	1160.43	1160.37	1160.32	1161.79	1.36	2.45	.19	1158.30
37500.0	7789.7	19066.7	10643.6	1359.6	1652.9	1551.4	17156.3	2893.1	1161.00
4.47	5.73	11.54	6.86	.045	.035	.045	.000	1153.60	9175.00
.007402	470.	497.	480.	1	12	0	.00	1710.19	11025.00

\*SECNO 19.352

3301 HV CHANGED MORE THAN HVINS

3302 WARNING: CONVEYANCE CHANGE OUTSIDE OF ACCEPTABLE RANGE, KRATIO = 1.74

3470	ENCROACHMENT STATIONS=		9150.0	11292.0	TYPE=	1	TARGET=	2142.000	
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19.352	8.67	1163.27	1161.97	1162.98	1163.84	.56	1.96	.08	1160.20
37500.0	6596.7	17770.8	13132.5	1832.4	2288.1	3350.1	17224.5	2914.7	1162.10
4.49	3.60	7.77	3.92	.045	.035	.045	.000	1154.60	9150.00
.002448	495.	510.	480.	2	8	0	.00	2142.00	11292.00

\*SECNO 19.446

3470 ENCROACHMENT STATIONS= 9170.0 11361.0 TYPE= 1 TARGET= 2191.000  
1  
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SECNO	DEPTH	CWSEL	CRISW	WSELK	EG	HV	HL	OLOSS	L-BANK ELEV
Q	QLOB	QCH	QROB	ALOB	ACH	AROB	VOL	TWA	R-BANK ELEV
TIME	VLOB	VCH	VROB	XLN	XLNCH	XNR	WTN	ELMIN	SSTA
SLOPE	XLOBL	XLCH	XLOBR	ITRIAL	IDC	ICONT	CORAR	TOPWID	ENDST
19.446	8.76	1164.46	1162.20	1164.08	1164.90	.44	1.05	.01	1159.00
37500.0	5186.4	19817.8	12495.7	1515.9	3100.1	3260.5	17309.5	2938.3	1162.80
4.52	3.42	6.39	3.83	.045	.035	.045	.000	1155.70	9170.00
.001920	525.	496.	450.	2	15	0	.00	2166.93	11336.93

\*SECNO 19.542

3470 ENCROACHMENT STATIONS= 9235.0 11478.0 TYPE= 1 TARGET= 2243.000  
19.542 8.51 1165.51 1163.57 1165.24 1166.00 .50 1.09 .02 1160.10  
37500.0 8920.8 15217.8 13361.4 2122.7 2100.4 3104.3 17396.5 2963.3 1164.70  
4.54 4.20 7.25 4.30 .045 .035 .045 .000 1157.00 9235.00  
.002495 520. 506. 480. 2 15 0 .00 2243.00 11478.00

\*SECNO 19.635

3265 DIVIDED FLOW

3470 ENCROACHMENT STATIONS= 9310.0 11548.0 TYPE= 1 TARGET= 2238.000  
19.635 7.73 1166.83 1165.21 1166.60 1167.34 .51 1.34 .00 1163.20  
37500.0 8234.6 16672.5 12592.9 1951.5 2457.2 2485.2 17476.9 2987.7 1165.80  
4.57 4.22 6.79 5.07 .045 .035 .045 .000 1159.10 9310.00  
.002965 495. 493. 490. 2 16 0 .00 2072.99 11548.00

\*SECNO 19.732

3265 DIVIDED FLOW

3470 ENCROACHMENT STATIONS= 9370.0 11690.0 TYPE= 1 TARGET= 2320.000  
19.732 7.45 1168.35 1166.76 1168.03 1168.93 .58 1.57 .02 1165.90  
37500.0 5846.1 16198.4 15455.6 1401.4 2196.1 2948.1 17554.2 3011.7 1166.40  
4.59 4.17 7.38 5.24 .045 .035 .045 .000 1160.90 9370.00  
.003298 510. 508. 490. 2 15 0 .00 2130.61 11690.00

\*SECNO 19.827

3470 ENCROACHMENT STATIONS= 9520.0 11727.0 TYPE= 1 TARGET= 2207.000  
19.827 7.65 1170.05 1168.37 1169.65 1170.53 .48 1.59 .01 1167.10  
37500.0 4246.9 12666.2 20586.8 925.5 1873.5 4258.5 17632.3 3036.6 1168.40  
4.62 4.59 6.76 4.83 .045 .035 .045 .000 1162.40 9520.00  
.003046 500. 501. 500. 2 15 0 .00 2207.00 11727.00

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SECNO	DEPTH	CWSEL	CRISW	WSELK	EG	HV	HL	OLOSS	L-BANK ELEV
Q	QLOB	QCH	QROB	ALOB	ACH	AROB	VOL	TWA	R-BANK ELEV
TIME	VLOB	VCH	VROB	XLN	XLNCH	XNR	WTN	ELMIN	SSTA
SLOPE	XLOBL	XLCH	XLOBR	ITRIAL	IDC	ICONT	CORAR	TOPWID	ENDST

\*SECNO 19.920

3265 DIVIDED FLOW

3470 ENCROACHMENT STATIONS= 9660.0 11778.0 TYPE= 1 TARGET= 2118.000  
19.920 8.84 1171.44 1169.31 1171.03 1171.88 .44 1.35 .00 1169.10  
37500.0 418.4 12589.9 24491.7 164.7 1988.2 5145.2 17713.1 3059.6 1168.30  
4.64 2.54 6.33 4.76 .045 .035 .045 .000 1162.60 9660.00  
.002493 485. 491. 490. 2 15 0 .00 1883.57 11778.00

\*SECNO 20.015

3265 DIVIDED FLOW

3470 ENCROACHMENT STATIONS= 9700.0 11518.0 TYPE= 1 TARGET= 1818.000

20.015	8.78	1172.78	1171.44	1172.40	1173.38	.60	1.45	.05	1170.30
37500.0	173.7	16610.0	20716.3	53.6	2218.3	4137.3	17791.4	3079.6	1169.40
4.66	3.24	7.49	5.01	.045	.035	.045	.000	1164.00	9700.00
.003459	505.	503.	495.	2	10	0	.00	1619.49	11518.00

\*SECNO 20.111

3265 DIVIDED FLOW

3470 ENCROACHMENT STATIONS=	9732.7	11308.0	TYPE=	1	TARGET=	1575.300			
20.111	9.05	1174.35	1172.66	1173.99	1174.99	.64	1.59	.01	1174.10
37500.0	.0	19018.1	18481.9	.0	2494.6	3770.6	17861.9	3096.7	1171.30
4.69	.02	7.62	4.90	.045	.035	.045	.000	1165.30	9732.70
.003077	540.	510.	470.	2	9	0	.00	1473.73	11308.00

\*SECNO 20.207

3265 DIVIDED FLOW

3470 ENCROACHMENT STATIONS=	9760.0	11080.0	TYPE=	1	TARGET=	1320.000			
20.207	8.56	1175.76	1174.44	1175.37	1176.65	.89	1.58	.07	1172.90
37500.0	501.5	22603.0	14395.4	151.9	2544.7	2872.1	17927.1	3111.6	1172.00
4.70	3.30	8.88	5.01	.045	.035	.045	.000	1167.20	9760.00
.003469	540.	504.	460.	2	15	0	.00	1250.29	11073.65

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SECNO	DEPTH	CWSEL	CRIWS	WSELK	EG	HV	HL	OLOSS	L-BANK ELEV
Q	QLOB	QCH	QROB	ALOB	ACH	AROB	VOL	TWA	R-BANK ELEV
TIME	VLOB	VCH	VROB	XNL	XNCH	XNR	WTN	ELMIN	SSTA
SLOPE	XLOBL	XLCH	XLOBR	ITRIAL	IDC	ICONT	CORAR	TOPWID	ENDST

\*SECNO 20.294

3470 ENCROACHMENT STATIONS=	9740.0	10900.0	TYPE=	1	TARGET=	1160.000			
20.294	10.57	1177.27	1175.12	1176.75	1177.85	.59	1.18	.03	1174.20
37500.0	2504.8	18103.6	16891.6	544.1	2417.0	3737.6	17989.4	3123.7	1172.10
4.73	4.60	7.49	4.52	.045	.035	.045	.000	1166.70	9740.00
.002071	480.	460.	425.	2	6	0	.00	1158.63	10898.63

\*SECNO 20.343

3470 ENCROACHMENT STATIONS=	9720.0	10970.0	TYPE=	1	TARGET=	1250.000			
20.343	9.14	1177.84	1176.01	1177.40	1178.49	.65	.62	.02	1175.50
37500.0	2273.7	17029.2	18197.1	492.2	2142.5	3634.8	18027.6	3130.8	1173.70
4.74	4.62	7.95	5.01	.045	.035	.045	.000	1168.70	9720.00
.002832	250.	262.	255.	2	19	0	.00	1250.00	10970.00

\*SECNO 20.388

3470 ENCROACHMENT STATIONS=	9700.0	10820.0	TYPE=	1	TARGET=	1120.000			
20.388	9.48	1178.38	1177.16	1177.98	1179.33	.95	.75	.09	1177.20
37500.0	1102.7	21184.6	15212.7	256.5	2321.3	2637.0	18057.3	3136.9	1174.50
4.74	4.30	9.13	5.77	.045	.035	.045	.000	1168.90	9700.00
.003921	220.	233.	220.	0	10	0	.00	1120.00	10820.00

\*SECNO 20.435

3265 DIVIDED FLOW

3470 ENCROACHMENT STATIONS=	9670.0	10650.0	TYPE=	1	TARGET=	980.000			
20.435	10.42	1179.22	1178.36	1178.90	1180.56	1.34	1.11	.12	1178.00
37500.0	183.5	26646.4	10670.1	89.4	2592.6	1705.2	18085.6	3142.8	1175.00
4.75	2.05	10.28	6.26	.045	.035	.045	.000	1168.80	9670.00
.004903	210.	248.	270.	2	5	0	.00	915.71	10650.00

\*SECNO 20.483

3470 ENCROACHMENT STATIONS=	9670.0	10540.0	TYPE=	1	TARGET=	870.000			
20.483	10.53	1180.33	1178.47	1179.89	1181.59	1.26	1.02	.01	1178.20
37500.0	554.4	35070.8	1874.8	251.1	3800.6	391.3	18111.4	3147.9	1176.30
4.76	2.21	9.23	4.79	.045	.035	.045	.000	1169.80	9670.00
.003312	220.	253.	265.	2	16	0	.00	870.00	10540.00

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SECNO	DEPTH	CWSEL	CRIWS	WSELK	EG	HV	HL	OLOSS	L-BANK ELEV
Q	QLOB	QCH	QROB	ALOB	ACH	AROB	VOL	TWA	R-BANK ELEV
TIME	VLOB	VCH	VROB	XNL	XNCH	XNR	WTN	ELMIN	SSTA

SLOPE	XLOBL	XLCH	XLOBR	ITRIAL	IDC	ICONT	CORAR	TOPWID	ENDST
*SECNO 20.579									
3470 ENCROACHMENT STATIONS= 9660.0 10345.6 TYPE= 1 TARGET= 685.600									
20.579	10.12	1182.02	1180.28	1181.35	1183.40	1.39	1.78	.04	1179.00
37500.0	2262.0	35206.7	31.2	495.3	3634.2	11.2	18161.3	3156.7	1177.80
4.78	4.57	9.69	2.80	.045	.035	.045	.000	1171.90	9660.00
.003695	455.	510.	540.	2	15	0	.00	669.50	10329.50
*SECNO 20.675									
3470 ENCROACHMENT STATIONS= 9630.0 10226.6 TYPE= 1 TARGET= 596.600									
20.675	12.34	1183.64	1181.35	1183.00	1184.99	1.35	1.58	.00	1177.40
37500.0	6597.7	30458.4	443.9	1282.2	3036.6	93.3	18210.5	3164.0	1172.70
4.79	5.15	10.03	4.76	.045	.035	.045	.000	1171.30	9630.00
.002707	500.	503.	505.	2	5	0	.00	593.86	10223.86
*SECNO 20.769									
3301 HV CHANGED MORE THAN HVINS									
3470 ENCROACHMENT STATIONS= 9500.0 10280.0 TYPE= 1 TARGET= 780.000									
20.769	12.22	1185.32	1182.23	1184.43	1186.09	.77	1.05	.06	1177.90
37500.0	7139.8	29190.5	1169.7	1700.4	3815.6	232.3	18267.5	3171.6	1176.10
4.81	4.20	7.65	5.04	.045	.035	.045	.000	1173.10	9500.00
.001721	465.	498.	500.	2	19	0	.00	778.62	10278.62
*SECNO 20.864									
3470 ENCROACHMENT STATIONS= 9340.0 10310.0 TYPE= 1 TARGET= 970.000									
20.864	10.22	1186.22	1183.16	1185.35	1186.95	.73	.85	.00	1181.60
35000.0	4802.3	29692.5	505.1	1398.4	4076.6	166.4	18331.7	3181.3	1182.00
4.83	3.43	7.28	3.04	.045	.035	.045	.000	1176.00	9340.00
.001714	460.	503.	505.	2	14	0	.00	970.00	10310.00

\*SECNO 20.958

3265 DIVIDED FLOW

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SECNO	DEPTH	CWSEL	CRWS	WSELK	EG	HV	HL	OLOSS	L-BANK ELEV
Q	QLOB	QCH	QROB	ALOB	ACH	AROB	VOL	TWA	R-BANK ELEV
TIME	VLOB	VCH	VROB	XNL	XNCH	XNR	WTN	ELMIN	SSTA
SLOPE	XLOBL	XLCH	XLOBR	ITRIAL	IDC	ICONT	CORAR	TOPWID	ENDST
3470 ENCROACHMENT STATIONS= 9250.0 10383.9 TYPE= 1 TARGET= 1133.900									
20.958	17.16	1187.06	1184.36	1186.20	1187.96	.90	.96	.05	1183.30
35000.0	865.1	34134.8	.2	441.1	4433.8	.6	18389.5	3191.9	1181.50
4.85	1.96	7.70	.33	.045	.035	.045	.000	1169.90	9250.00
.002274	390.	497.	530.	2	14	0	.00	1079.03	10383.90
*SECNO 21.061									
3265 DIVIDED FLOW									
3470 ENCROACHMENT STATIONS= 9250.0 10350.0 TYPE= 1 TARGET= 1100.000									
21.061	18.54	1188.14	1184.73	1187.24	1189.20	1.06	1.19	.05	1184.50
35000.0	413.8	34479.1	107.1	276.6	4149.0	47.6	18446.1	3202.1	1186.30
4.87	1.50	8.31	2.25	.045	.035	.045	.000	1169.60	9250.00
.002142	340.	543.	655.	2	12	0	.00	889.66	10350.00
*SECNO 21.157									
3301 HV CHANGED MORE THAN HVINS									
3470 ENCROACHMENT STATIONS= 9266.8 10400.0 TYPE= 1 TARGET= 1133.200									
21.157	15.66	1189.86	1185.25	1189.24	1190.16	.30	.88	.08	1185.90
35000.0	75.4	34265.9	658.7	76.6	7769.0	177.6	18518.8	3213.0	1181.90
4.90	.98	4.41	3.71	.055	.050	.055	.000	1174.20	9274.81
.001436	340.	509.	630.	2	14	0	.00	1125.19	10400.00
*SECNO 21.245									
3302 WARNING: CONVEYANCE CHANGE OUTSIDE OF ACCEPTABLE RANGE, KRATIO = .64									
3470 ENCROACHMENT STATIONS= 9250.0 10320.0 TYPE= 1 TARGET= 1070.000									
21.245	38.50	1190.60	1187.93	1190.17	1191.16	.56	.93	.08	1189.60

35000.0	22148.3	12837.4	14.3	3511.3	2381.1	7.4	18589.0	3223.7	1187.30
4.92	6.31	5.39	1.94	.055	.050	.055	.000	1152.10	9250.00
.003519	365.	464.	530.	2	17	0	.00	1029.26	10279.26

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SECNO	DEPTH	CWSEL	CRISW	WSELK	EG	HV	HL	OLOSS	L-BANK ELEV
Q	QLOB	QCH	QROB	ALOB	ACH	AROB	VOL	TWA	R-BANK ELEV
TIME	VLOB	VCH	VROB	XNL	XNCH	XNR	WTN	ELMIN	SSTA
SLOPE	XLOBL	XLCH	XLOBR	ITRIAL	IDC	ICONT	CORAR	TOPWID	ENDST

\*SECNO 21.337

3302 WARNING: CONVEYANCE CHANGE OUTSIDE OF ACCEPTABLE RANGE, KRATIO = 2.63

3470 ENCROACHMENT STATIONS=	9294.0	10260.0	TYPE=	1	TARGET=	966.000			
21.337	11.50	1191.50	1183.72	1191.20	1191.68	.18	.48	.04	1180.00
35000.0	6.6	33587.4	1406.0	11.5	9849.2	692.8	18676.3	3234.2	1180.00
4.96	.58	3.41	2.03	.055	.050	.055	.000	1180.00	9294.00
.000507	375.	483.	530.	2	24	0	.00	966.00	10260.00

\*SECNO 21.431

3301 HV CHANGED MORE THAN HVINS

3302 WARNING: CONVEYANCE CHANGE OUTSIDE OF ACCEPTABLE RANGE, KRATIO = .29

3470 ENCROACHMENT STATIONS=	9400.0	10343.6	TYPE=	1	TARGET=	943.600			
21.431	10.67	1191.67	1188.40	1191.28	1192.47	.80	.61	.19	1191.10
35000.0	779.5	34220.5	.0	188.6	4722.4	.0	18763.7	3244.8	1193.90
4.98	4.13	7.25	.00	.055	.050	.000	.000	1181.00	9400.00
.006168	465.	496.	430.	3	17	0	.00	922.69	10322.69

\*SECNO 21.524

3265 DIVIDED FLOW

3302 WARNING: CONVEYANCE CHANGE OUTSIDE OF ACCEPTABLE RANGE, KRATIO = 1.90

3470 ENCROACHMENT STATIONS=	9603.9	10541.0	TYPE=	1	TARGET=	937.100			
21.524	11.60	1193.60	1187.87	1193.49	1193.96	.36	1.44	.04	1193.60
35000.0	.0	34999.0	1.0	.0	7286.6	1.4	18832.5	3255.3	1191.20
5.00	.01	4.80	.69	.000	.050	.055	.000	1182.00	9603.90
.001714	485.	491.	425.	2	11	0	.00	937.10	10541.00

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SECNO	DEPTH	CWSEL	CRISW	WSELK	EG	HV	HL	OLOSS	L-BANK ELEV
Q	QLOB	QCH	QROB	ALOB	ACH	AROB	VOL	TWA	R-BANK ELEV
TIME	VLOB	VCH	VROB	XNL	XNCH	XNR	WTN	ELMIN	SSTA
SLOPE	XLOBL	XLCH	XLOBR	ITRIAL	IDC	ICONT	CORAR	TOPWID	ENDST

\*SECNO 21.621

3302 WARNING: CONVEYANCE CHANGE OUTSIDE OF ACCEPTABLE RANGE, KRATIO = 1.58

3470 ENCROACHMENT STATIONS=	9670.0	10530.0	TYPE=	1	TARGET=	860.000			
21.621	11.77	1194.27	1186.79	1194.18	1194.50	.23	.53	.01	1186.40
35000.0	6036.5	27058.7	1904.8	1760.6	6754.4	738.8	18929.0	3265.7	1182.70
5.04	3.43	4.01	2.58	.055	.050	.055	.000	1182.50	9670.00
.000687	545.	511.	370.	2	18	0	.00	860.00	10530.00

\*SECNO 21.716

3301 HV CHANGED MORE THAN HVINS

3302 WARNING: CONVEYANCE CHANGE OUTSIDE OF ACCEPTABLE RANGE, KRATIO = .42

3470 ENCROACHMENT STATIONS=	9670.0	10500.0	TYPE=	1	TARGET=	830.000			
21.716	11.45	1194.55	1191.66	1194.54	1195.35	.80	.68	.17	1192.90
35000.0	2197.3	31746.3	1056.4	667.2	4274.8	253.7	19012.2	3275.4	1191.00
5.06	3.29	7.43	4.16	.055	.050	.055	.000	1183.10	9670.00
.003817	560.	502.	350.	2	15	0	.00	830.00	10500.00

\*SECNO 21.798

3470 ENCROACHMENT STATIONS= 9640.0 10600.0 TYPE= 1 TARGET= 960.000  
 21.798 10.39 1196.29 1194.58 1195.97 1197.15 .86 1.78 .02 1196.20  
 35000.0 .0 22979.3 12020.7 .0 2949.3 1774.3 19061.3 3284.2 1195.40  
 5.08 .02 7.79 6.78 .045 .035 .055 .000 1185.90 9649.22  
 .004490 450. 436. 410. 3 18 0 .00 950.78 10600.00

\*SECNO 21.893

3470 ENCROACHMENT STATIONS= 9558.7 10680.0 TYPE= 1 TARGET= 1121.300  
 21.893 37.24 1198.44 1197.28 1198.27 1199.43 .99 2.24 .04 1201.20  
 35000.0 .0 27577.9 7422.1 .0 3174.4 1617.5 19116.6 3296.3 1196.70  
 5.10 .00 8.69 4.59 .000 .035 .055 .000 1161.20 9565.59  
 .004371 485. 501. 515. 2 19 0 .00 1114.41 10680.00

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SECNO	DEPTH	CWSEL	CRISW	WSELK	EG	HV	HL	OLOSS	L-BANK ELEV
Q	QLOB	QCH	QROB	ALOB	ACH	AROB	VOL	TWA	R-BANK ELEV
TIME	VLOB	VCH	VROB	XNL	XNCH	XNR	WTN	ELMIN	SSTA
SLOPE	XLOBL	XLCH	XLOBR	ITRIAL	IDC	ICONT	CORAR	TOPWID	ENDST

\*SECNO 21.986

3470 ENCROACHMENT STATIONS= 9250.4 10665.0 TYPE= 1 TARGET= 1414.600  
 21.986 40.55 1200.65 1198.95 1200.58 1201.20 .56 1.73 .04 1197.70  
 35000.0 11168.7 14915.0 8916.3 2304.4 2001.9 2070.6 19179.0 3310.3 1199.20  
 5.12 4.85 7.45 4.31 .045 .035 .055 .000 1160.10 9268.34  
 .002941 450. 491. 505. 2 10 0 .00 1396.66 10665.00

\*SECNO 22.082

3265 DIVIDED FLOW

3470 ENCROACHMENT STATIONS= 9010.7 10605.0 TYPE= 1 TARGET= 1594.300  
 22.082 14.61 1202.01 1199.44 1201.74 1202.38 .37 1.16 .02 1198.20  
 35000.0 9417.9 8283.6 17298.5 2847.7 1524.7 3260.8 19259.0 3327.0 1199.90  
 5.15 3.31 5.43 5.31 .045 .035 .055 .000 1187.40 9010.70  
 .001867 465. 503. 525. 2 17 0 .00 1555.20 10605.00

\*SECNO 22.177

3265 DIVIDED FLOW

3470 ENCROACHMENT STATIONS= 8765.7 10533.7 TYPE= 1 TARGET= 1768.000  
 22.177 9.16 1202.96 1201.66 1202.07 1203.77 .81 1.26 .13 1199.60  
 35000.0 7641.4 27358.5 .1 1868.4 3466.0 .2 19334.0 3344.1 1200.70  
 5.17 4.09 7.89 .33 .045 .035 .055 .000 1193.80 8855.22  
 .003526 510. 506. 490. 2 11 0 .00 1392.19 10533.70

\*SECNO 22.273

3265 DIVIDED FLOW

3470 ENCROACHMENT STATIONS= 8965.3 10635.9 TYPE= 1 TARGET= 1670.601  
 22.273 17.08 1204.68 1203.06 1204.46 1205.55 .87 1.76 .02 1204.00  
 35000.0 4092.3 30907.7 .0 1029.9 3935.3 .0 19393.6 3360.1 1209.00  
 5.19 3.97 7.85 .00 .045 .035 .000 .000 1187.60 8977.55  
 .003470 505. 504. 485. 2 15 0 .00 1368.57 10627.75

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SECNO	DEPTH	CWSEL	CRISW	WSELK	EG	HV	HL	OLOSS	L-BANK ELEV
Q	QLOB	QCH	QROB	ALOB	ACH	AROB	VOL	TWA	R-BANK ELEV
TIME	VLOB	VCH	VROB	XNL	XNCH	XNR	WTN	ELMIN	SSTA
SLOPE	XLOBL	XLCH	XLOBR	ITRIAL	IDC	ICONT	CORAR	TOPWID	ENDST

\*SECNO 22.368

3265 DIVIDED FLOW

3301 HV CHANGED MORE THAN HVINS

3470 ENCROACHMENT STATIONS= 9008.1 11110.0 TYPE= 1 TARGET= 2101.900  
 22.368 8.07 1206.57 1204.53 1206.55 1206.93 .35 1.32 .05 1206.80  
 33000.0 4376.3 20503.5 8120.2 1131.9 3787.4 2473.7 19464.2 3378.4 1212.90  
 5.22 3.87 5.41 3.28 .045 .035 .055 .000 1198.50 9015.69  
 .002045 510. 505. 465. 2 17 0 .00 1832.34 11110.00

\*SECNO 22.462

3265 DIVIDED FLOW

3470 ENCROACHMENT STATIONS=	9040.3	11760.0	TYPE=	1	TARGET=	2719.700			
22.462	7.34	1207.64	1205.50	1207.63	1207.92	.28	.99	.01	1206.30
33000.0	4598.6	9466.9	18934.5	1365.3	1851.3	4756.3	19548.5	3401.1	1208.70
5.25	3.37	5.11	3.98	.045	.035	.045	.000	1200.30	9046.89
.002069	515.	496.	450.	2	23	0	.00	2273.51	11760.00

\*SECNO 22.558

3265 DIVIDED FLOW

3301 HV CHANGED MORE THAN HVINS

3302 WARNING: CONVEYANCE CHANGE OUTSIDE OF ACCEPTABLE RANGE, KRATIO = .51

3470 ENCROACHMENT STATIONS=	9065.5	12000.0	TYPE=	1	TARGET=	2934.500			
22.558	6.48	1208.88	1208.58	1208.88	1209.82	.94	1.70	.20	1208.50
33000.0	6352.6	16204.9	10442.5	1084.2	1727.5	1822.0	19615.9	3423.6	1207.70
5.26	5.86	9.38	5.73	.045	.035	.045	.000	1202.40	9080.51
.007823	535.	503.	420.	2	12	0	.00	1891.52	12000.00

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SECNO	DEPTH	CWSEL	CRWS	WSELK	EG	HV	HL	OLOSS	L-BANK ELEV
Q	QLOB	QCH	QROB	ALOB	ACH	AROB	VOL	TWA	R-BANK ELEV
TIME	VLOB	VCH	VROB	XNL	XNCH	XNR	WTN	ELMIN	SSTA
SLOPE	XLOBL	XLCH	XLOBR	ITRIAL	IDC	ICONT	CORAR	TOPWID	ENDST

\*SECNO 22.651

3265 DIVIDED FLOW

3301 HV CHANGED MORE THAN HVINS

3302 WARNING: CONVEYANCE CHANGE OUTSIDE OF ACCEPTABLE RANGE, KRATIO = 1.78

3470 ENCROACHMENT STATIONS=	9016.1	12095.0	TYPE=	1	TARGET=	3078.900			
22.651	6.69	1211.49	1209.71	1211.49	1211.82	.33	1.94	.06	1208.50
33000.0	12228.7	10066.6	10704.7	2802.8	1764.7	2997.8	19682.4	3447.8	1208.60
5.29	4.36	5.70	3.57	.045	.035	.045	.000	1204.80	9025.78
.002475	490.	492.	450.	2	19	0	.00	2611.30	12095.00

\*SECNO 22.745

3265 DIVIDED FLOW

3470 ENCROACHMENT STATIONS=	8903.1	12094.0	TYPE=	1	TARGET=	3190.900			
22.745	6.78	1214.30	1211.56	1212.78	1213.17	.38	1.33	.02	1211.90
33000.0	9789.6	9083.2	14127.2	2076.0	1428.7	3487.2	19758.0	3476.6	1210.20
5.32	4.72	6.36	4.05	.045	.035	.045	.000	1206.00	8914.99
.003442	495.	496.	400.	3	15	0	.00	3110.10	12094.00

\*SECNO 22.839

3265 DIVIDED FLOW

3470 ENCROACHMENT STATIONS=	8721.1	11833.0	TYPE=	1	TARGET=	3111.900			
22.839	7.00	1214.30	1212.92	1214.30	1214.65	.34	1.48	.00	1214.30
33000.0	10198.8	8944.9	13856.4	2227.4	1512.8	3621.7	19833.2	3507.9	1213.10
5.35	4.58	5.91	3.83	.045	.035	.045	.000	1207.30	8727.76
.002980	495.	498.	415.	2	15	0	.00	2967.61	11833.00

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SECNO	DEPTH	CWSEL	CRWS	WSELK	EG	HV	HL	OLOSS	L-BANK ELEV
Q	QLOB	QCH	QROB	ALOB	ACH	AROB	VOL	TWA	R-BANK ELEV
TIME	VLOB	VCH	VROB	XNL	XNCH	XNR	WTN	ELMIN	SSTA
SLOPE	XLOBL	XLCH	XLOBR	ITRIAL	IDC	ICONT	CORAR	TOPWID	ENDST

\*SECNO 22.935

3265 DIVIDED FLOW

3470 ENCROACHMENT STATIONS=	8478.1	11640.0	TYPE=	1	TARGET=	3161.900			
22.935	6.62	1215.62	1214.01	1215.62	1215.91	.29	1.26	.01	1214.80
33000.0	10424.0	13791.7	8784.3	2436.7	2863.9	2544.4	19914.4	3539.3	1214.40
5.38	4.28	4.82	3.45	.045	.035	.045	.000	1209.00	8484.93
.002439	465.	501.	440.	2	16	0	.00	2984.14	11640.00

\*SECNO 23.029

3265 DIVIDED FLOW

3470 ENCROACHMENT STATIONS=	8450.0	11460.0	TYPE=	1	TARGET=	3010.000			
23.029	6.94	1217.04	1216.05	1217.03	1217.49	.45	1.53	.05	1217.50
33000.0	9518.4	9693.3	13788.3	2138.4	1492.3	2699.3	19989.2	3568.3	1217.00
5.40	4.45	6.50	5.11	.045	.035	.045	.000	1210.10	8450.00
.004696	450.	501.	435.	2	12	0	.00	2566.79	11460.00

\*SECNO 23.124

3265 DIVIDED FLOW

3470 ENCROACHMENT STATIONS=	8580.0	11160.0	TYPE=	1	TARGET=	2580.000			
23.124	7.21	1219.11	1217.95	1219.11	1219.52	.41	2.03	.00	1220.30
33000.0	12127.5	5565.5	15306.9	2668.9	912.8	2935.8	20058.9	3594.0	1217.90
5.43	4.54	6.10	5.21	.045	.035	.045	.000	1211.90	8580.00
.003923	485.	499.	450.	2	9	0	.00	2180.51	11155.25

\*SECNO 23.219

3265 DIVIDED FLOW

3470 ENCROACHMENT STATIONS=	8860.0	11070.0	TYPE=	1	TARGET=	2210.000			
23.219	6.98	1220.98	1219.67	1220.97	1221.38	.40	1.86	.00	1219.20
33000.0	7618.9	11365.7	14015.4	1793.5	1955.7	2893.5	20133.9	3618.8	1218.70
5.46	4.25	5.81	4.84	.045	.035	.045	.000	1214.00	8860.00
.003588	490.	501.	500.	2	15	0	.00	2181.51	11060.64

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SECNO	DEPTH	CWSEL	CRWS	WSELK	EG	HV	HL	OLOSS	L-BANK ELEV
Q	QLOB	QCH	QROB	ALOB	ACH	AROB	VOL	TWA	R-BANK ELEV
TIME	VLOB	VCH	VROB	XNL	XNCH	XNR	WTN	ELMIN	SSTA
SLOPE	XLOBL	XLCH	XLOBR	ITRIAL	IDC	ICONT	CORAR	TOPWID	ENDST

\*SECNO 23.314

3265 DIVIDED FLOW

3470 ENCROACHMENT STATIONS=	9220.0	11090.0	TYPE=	1	TARGET=	1870.000			
23.314	6.87	1222.97	1222.07	1222.95	1223.61	.64	2.15	.07	1221.40
33000.0	7139.8	9955.7	15904.6	1420.3	1209.1	2810.5	20203.1	3641.7	1222.70
5.48	5.03	8.23	5.66	.045	.035	.045	.000	1216.10	9220.00
.005288	510.	504.	490.	2	15	0	.00	1817.08	11090.00

\*SECNO 23.409

3265 DIVIDED FLOW

3470 ENCROACHMENT STATIONS=	9550.0	10970.0	TYPE=	1	TARGET=	1420.000			
23.409	8.72	1225.42	1224.32	1225.23	1226.19	.77	2.54	.04	1223.60
33000.0	753.1	13287.3	18959.6	221.9	1666.3	2937.4	20261.4	3660.0	1225.40
5.50	3.39	7.97	6.45	.045	.035	.045	.000	1216.70	9550.00
.005016	515.	500.	485.	2	8	0	.00	1402.86	10970.00

\*SECNO 23.504

3265 DIVIDED FLOW

3470 ENCROACHMENT STATIONS=	9680.0	10880.0	TYPE=	1	TARGET=	1200.000			
23.504	38.57	1227.67	1225.76	1227.07	1228.25	.58	2.04	.02	1226.20
33000.0	83.2	11528.3	21388.5	41.0	1922.3	3467.0	20319.6	3674.8	1226.70
5.52	2.03	6.00	6.17	.055	.035	.045	.000	1189.10	9680.00
.003441	505.	501.	490.	2	19	0	.00	1200.00	10880.00

\*SECNO 23.598

3265 DIVIDED FLOW

3470 ENCROACHMENT STATIONS=	9680.0	10770.0	TYPE=	1	TARGET=	1090.000			
23.598	52.19	1229.19	1226.89	1228.50	1229.78	.59	1.53	.00	1228.00
33000.0	32.8	19031.8	13935.5	20.8	2859.7	2586.1	20381.3	3687.8	1226.40

5.54 1.58 6.66 5.39 .055 .035 .045 .000 1177.00 9681.65  
.002801 480. 498. 490. 2 11 0 .00 1088.35 10770.00

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SECNO	DEPTH	CWSEL	CRWS	WSELK	EG	HV	HL	OLOSS	L-BANK ELEV
Q	QLOB	QCH	QROB	ALOB	ACH	AROB	VOL	TWA	R-BANK ELEV
TIME	VLOB	VCH	VROB	XNL	XNCH	XNR	WTN	ELMIN	SSTA
SLOPE	XLOBL	XLCH	XLOBR	ITRIAL	IDC	ICONT	CORAR	TOPWID	ENDST

\*SECNO 23.692

3301 HV CHANGED MORE THAN HVINS

3302 WARNING: CONVEYANCE CHANGE OUTSIDE OF ACCEPTABLE RANGE, KRATIO = .68

3470 ENCROACHMENT STATIONS= 9650.0 10675.0 TYPE= 1 TARGET= 1025.000  
23.692 43.98 1230.68 1230.04 1230.19 1231.90 1.22 1.93 .19 1229.50  
31000.0 1535.4 23551.0 7913.6 402.8 2405.5 1256.0 20434.4 3699.5 1227.40  
5.56 3.81 9.79 6.30 .055 .035 .045 .000 1186.70 9650.00  
.006038 475. 494. 475. 1 19 0 .00 1025.00 10675.00

\*SECNO 23.790

3470 ENCROACHMENT STATIONS= 9630.0 10635.0 TYPE= 1 TARGET= 1005.000  
23.790 54.03 1233.43 1231.76 1232.64 1234.26 .82 2.32 .04 1231.10  
31000.0 61.9 23535.5 7402.5 25.6 2925.1 1836.6 20486.3 3711.4 1229.80  
5.58 2.42 8.05 4.03 .055 .035 .055 .000 1179.40 9630.00  
.003437 500. 519. 500. 2 21 0 .00 1005.00 10635.00

\*SECNO 23.881

3470 ENCROACHMENT STATIONS= 9630.0 10665.0 TYPE= 1 TARGET= 1035.000  
23.881 27.69 1234.89 1232.80 1233.93 1235.69 .80 1.44 .00 1233.30  
31000.0 568.0 25710.5 4721.5 177.7 3322.2 1462.7 20539.5 3722.5 1232.80  
5.60 3.20 7.74 3.23 .055 .035 .055 .000 1207.20 9630.00  
.002665 460. 478. 470. 2 12 0 .00 1035.00 10665.00

\*SECNO 23.974

3470 ENCROACHMENT STATIONS= 9716.0 10825.0 TYPE= 1 TARGET= 1109.000  
23.974 14.49 1236.79 1234.41 1236.02 1237.24 .45 1.51 .03 1238.60  
31000.0 .0 15388.2 15611.8 .0 2546.0 3355.1 20601.2 3734.6 1233.10  
5.62 .00 6.04 4.65 .000 .050 .055 .000 1222.30 9718.81  
.003529 460. 492. 500. 2 16 0 .00 1106.18 10825.00

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SECNO	DEPTH	CWSEL	CRWS	WSELK	EG	HV	HL	OLOSS	L-BANK ELEV
Q	QLOB	QCH	QROB	ALOB	ACH	AROB	VOL	TWA	R-BANK ELEV
TIME	VLOB	VCH	VROB	XNL	XNCH	XNR	WTN	ELMIN	SSTA
SLOPE	XLOBL	XLCH	XLOBR	ITRIAL	IDC	ICONT	CORAR	TOPWID	ENDST

\*SECNO 24.067

3470 ENCROACHMENT STATIONS= 9380.0 11020.0 TYPE= 1 TARGET= 1640.000  
24.067 8.98 1238.28 1235.35 1237.69 1238.51 .22 1.25 .02 1232.90  
31000.0 3944.1 15558.1 11497.8 1080.7 3686.2 3578.0 20682.5 3750.3 1235.20  
5.66 3.65 4.22 3.21 .055 .050 .055 .000 1229.30 9380.00  
.001874 465. 493. 505. 1 12 0 .00 1640.00 11020.00

\*SECNO 24.165

3470 ENCROACHMENT STATIONS= 9310.0 11185.0 TYPE= 1 TARGET= 1875.000  
24.165 7.64 1239.04 1236.59 1238.50 1239.29 .25 .78 .01 1236.10  
31000.0 2809.8 16613.3 11577.0 954.9 3491.8 3827.0 20780.6 3771.1 1234.10  
5.70 2.94 4.76 3.03 .045 .035 .045 .000 1231.40 9310.00  
.001241 495. 514. 520. 3 11 0 .00 1875.00 11185.00

\*SECNO 24.212

3470 ENCROACHMENT STATIONS= 9300.0 11250.0 TYPE= 1 TARGET= 1950.000  
24.212 8.08 1239.38 1237.08 1238.85 1239.63 .25 .34 .00 1237.40  
31000.0 4444.6 11375.5 15179.9 1364.5 2283.5 4555.1 20827.5 3782.0 1236.20  
5.71 3.26 4.98 3.33 .045 .035 .045 .000 1231.30 9300.00  
.001497 240. 248. 250. 2 19 0 .00 1950.00 11250.00

\*SECNO 24.260

3470 ENCROACHMENT STATIONS= 9280.0 11261.0 TYPE= 1 TARGET= 1981.000  
 24.260 8.09 1239.79 1237.47 1239.26 1240.00 .22 .37 .00 1238.50  
 31000.0 4804.2 11587.8 14608.0 1434.3 2675.9 4360.3 20875.9 3793.4 1237.00  
 5.73 3.35 4.33 3.35 .045 .035 .045 .000 1231.70 9280.00  
 .001446 245. 255. 255. 2 14 0 .00 1981.00 11261.00

\*SECNO 24.353

3470 ENCROACHMENT STATIONS= 9244.0 11272.0 TYPE= 1 TARGET= 2028.000  
 24.353 6.94 1240.54 1238.53 1240.02 1240.79 .25 .78 .01 1238.30  
 31000.0 1.7 17431.4 13566.9 1.8 3920.8 4006.8 20969.7 3816.3 1238.10  
 5.77 .96 4.45 3.39 .045 .035 .045 .000 1233.60 9244.00  
 .001693 475. 494. 505. 2 14 0 .00 2028.00 11272.00

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SECNO	DEPTH	CWSEL	CRWS	WSELK	EG	HV	HL	OLOSS	L-BANK ELEV
Q	QLOB	QCH	QROB	ALOB	ACH	AROB	VOL	TWA	R-BANK ELEV
TIME	VLOB	VCH	VROB	XNL	XNCH	XNR	WTN	ELMIN	SSTA
SLOPE	XLOBL	XLCH	XLOBR	ITRIAL	IDC	ICONT	CORAR	TOPWID	ENDST

\*SECNO 24.449

3265 DIVIDED FLOW

3302 WARNING: CONVEYANCE CHANGE OUTSIDE OF ACCEPTABLE RANGE, KRATIO = .64

3470 ENCROACHMENT STATIONS= 9320.0 11319.0 TYPE= 1 TARGET= 1999.000  
 24.449 6.65 1241.65 1240.57 1241.31 1242.15 .50 1.28 .08 1240.20  
 31000.0 278.5 16071.5 14650.0 131.5 2472.4 3115.0 21050.2 3839.2 1242.70  
 5.79 2.12 6.50 4.70 .045 .035 .045 .000 1235.00 9350.53  
 .004085 460. 503. 525. 2 16 0 .00 1854.11 11319.00

\*SECNO 24.543

3265 DIVIDED FLOW

3470 ENCROACHMENT STATIONS= 9340.0 11419.0 TYPE= 1 TARGET= 2079.000  
 24.543 8.01 1243.61 1242.15 1243.35 1243.98 .37 1.82 .01 1243.50  
 31000.0 6088.4 9282.7 15628.9 1162.3 1759.2 3457.9 21119.2 3861.4 1243.20  
 5.82 5.24 5.28 4.52 .045 .035 .045 .000 1235.60 9340.00  
 .003297 495. 501. 495. 2 6 0 .00 2032.95 11419.00

\*SECNO 24.631

3265 DIVIDED FLOW

3470 ENCROACHMENT STATIONS= 9420.0 11595.0 TYPE= 1 TARGET= 2175.000  
 24.631 7.17 1245.37 1244.32 1245.12 1245.79 .42 1.79 .01 1245.10  
 31000.0 14.8 12010.6 18974.6 12.1 2122.4 3885.5 21184.6 3883.4 1245.10  
 5.85 1.22 5.66 4.88 .050 .035 .050 .000 1238.20 9420.00  
 .004685 450. 462. 460. 2 14 0 .00 2147.61 11595.00

\*SECNO 24.721

3265 DIVIDED FLOW

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SECNO	DEPTH	CWSEL	CRWS	WSELK	EG	HV	HL	OLOSS	L-BANK ELEV
Q	QLOB	QCH	QROB	ALOB	ACH	AROB	VOL	TWA	R-BANK ELEV
TIME	VLOB	VCH	VROB	XNL	XNCH	XNR	WTN	ELMIN	SSTA
SLOPE	XLOBL	XLCH	XLOBR	ITRIAL	IDC	ICONT	CORAR	TOPWID	ENDST

3470 ENCROACHMENT STATIONS= 9515.0 11765.0 TYPE= 1 TARGET= 2250.000  
 24.721 6.83 1247.43 1246.05 1247.03 1247.77 .35 1.98 .01 1247.70  
 31000.0 .0 10811.4 20188.6 .0 2127.4 4468.6 21252.4 3906.9 1247.40  
 5.87 .00 5.08 4.52 .000 .035 .050 .000 1240.60 9537.42  
 .003821 455. 474. 465. 2 16 0 .00 2209.00 11765.00

\*SECNO 24.816

3470 ENCROACHMENT STATIONS= 9680.0 12025.0 TYPE= 1 TARGET= 2345.000  
 24.816 7.83 1249.23 1247.74 1248.70 1249.56 .33 1.78 .00 1248.30  
 31000.0 27.2 7614.1 23358.7 18.1 1571.8 5186.7 21327.0 3932.3 1248.80  
 5.90 1.51 4.84 4.50 .050 .035 .050 .000 1241.40 9680.00  
 .003529 495. 501. 480. 2 10 0 .00 2345.00 12025.00

\*SECNO 24.910

3265 DIVIDED FLOW

3470 ENCROACHMENT STATIONS=	9627.0	12200.0	TYPE=	1	TARGET=	2573.000			
24.910	7.10	1251.00	1249.37	1250.39	1251.30	.30	1.74	.00	1251.10
31000.0	.0	6242.4	24757.6	.0	1421.0	5577.8	21404.1	3959.7	1251.00
5.93	.00	4.39	4.44	.000	.035	.050	.000	1243.90	9628.24
.003600	485.	498.	485.	2	20	0	.00	2549.54	12200.00

\*SECNO 24.996

3470 ENCROACHMENT STATIONS=	9773.0	12290.0	TYPE=	1	TARGET=	2517.000			
24.996	6.37	1252.67	1251.51	1252.08	1253.03	.37	1.71	.02	1253.10
31000.0	.0	13118.5	17881.5	.0	2412.4	4095.5	21472.9	3985.5	1251.00
5.96	.00	5.44	4.37	.000	.035	.050	.000	1246.30	9776.35
.004131	435.	453.	440.	2	13	0	.00	2513.65	12290.00

\*SECNO 25.098

3265 DIVIDED FLOW

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SECNO	DEPTH	CWSEL	CRISW	WSELK	EG	HV	HL	OLOSS	L-BANK ELEV
Q	QLOB	QCH	QROB	ALOB	ACH	AROB	VOL	TWA	R-BANK ELEV
TIME	VLOB	VCH	VROB	XNL	XNCH	XNR	WTN	ELMIN	SSTA
SLOPE	XLOBL	XLCH	XLOBR	ITRIAL	IDC	ICONT	CORAR	TOPWID	ENDST

3470 ENCROACHMENT STATIONS=	9859.0	12250.0	TYPE=	1	TARGET=	2391.000			
25.098	6.34	1254.94	1253.89	1254.38	1255.34	.41	2.30	.01	1255.20
31000.0	.0	11670.5	19329.5	.0	1967.5	4227.0	21549.7	4014.4	1252.80
5.99	.00	5.93	4.57	.000	.035	.050	.000	1248.60	9880.64
.004605	535.	540.	520.	2	10	0	.00	2273.96	12250.00

\*SECNO 25.192

3470 ENCROACHMENT STATIONS=	9850.0	12000.0	TYPE=	1	TARGET=	2150.000			
25.192	6.63	1256.63	1255.36	1256.15	1257.04	.42	1.70	.00	1257.10
29000.0	.0	15616.3	13383.7	.0	2451.9	4065.2	21622.1	4039.4	1254.20
6.02	.00	6.37	3.29	.000	.030	.050	.000	1250.00	9853.50
.002590	540.	499.	495.	3	12	0	.00	2119.54	11973.04

\*SECNO 25.288

3265 DIVIDED FLOW

3470 ENCROACHMENT STATIONS=	9800.0	11825.0	TYPE=	1	TARGET=	2025.000			
25.288	6.66	1257.96	1257.34	1257.69	1258.74	.78	1.59	.11	1259.10
29000.0	.0	19874.3	9125.7	.0	2404.1	2654.9	21688.8	4062.7	1254.90
6.04	.00	8.27	3.44	.000	.030	.050	.000	1251.30	9811.45
.003942	550.	504.	500.	2	15	0	.00	1931.01	11784.75

\*SECNO 25.382

3470 ENCROACHMENT STATIONS=	9740.0	11690.0	TYPE=	1	TARGET=	1950.000			
25.382	6.01	1259.71	1259.11	1259.61	1260.53	.81	1.78	.01	1259.40
29000.0	.4	22436.2	6563.4	.6	2770.4	2384.0	21747.0	4084.4	1256.70
6.06	.68	8.10	2.75	.050	.030	.050	.000	1253.70	9740.00
.003255	440.	498.	495.	2	15	0	.00	1871.42	11611.42

\*SECNO 25.478

3265 DIVIDED FLOW

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SECNO	DEPTH	CWSEL	CRISW	WSELK	EG	HV	HL	OLOSS	L-BANK ELEV
Q	QLOB	QCH	QROB	ALOB	ACH	AROB	VOL	TWA	R-BANK ELEV
TIME	VLOB	VCH	VROB	XNL	XNCH	XNR	WTN	ELMIN	SSTA
SLOPE	XLOBL	XLCH	XLOBR	ITRIAL	IDC	ICONT	CORAR	TOPWID	ENDST

3470 ENCROACHMENT STATIONS=	9750.0	11715.0	TYPE=	1	TARGET=	1965.000			
25.478	7.41	1261.31	1260.96	1261.20	1262.35	1.04	1.76	.07	1261.90
29000.0	.0	19878.2	9121.8	.0	2071.1	2689.2	21802.8	4105.5	1257.70
6.07	.00	9.60	3.39	.000	.030	.050	.000	1253.90	9753.91
.003834	535.	506.	475.	2	8	0	.00	1934.06	11715.00

\*SECNO 25.526

3470 ENCROACHMENT STATIONS=	9779.0	11805.0	TYPE=	1	TARGET=	2026.000			
25.526	8.79	1262.48	1261.36	1262.41	1263.11	.62	.72	.04	1262.50
29000.0	.0	16634.8	12365.2	.0	2086.7	4164.2	21834.9	4117.0	1257.10
6.09	.00	7.97	2.97	.000	.030	.050	.000	1253.70	9779.33
.002183	255.	253.	255.	2	8	0	.00	2025.67	11805.00

\*SECNO 25.572

3301 HV CHANGED MORE THAN HVINS

3470 ENCROACHMENT STATIONS=	9840.0	11210.0	TYPE=	1	TARGET=	1370.000			
25.572	8.01	1262.71	1262.03	1262.88	1263.92	1.21	.64	.18	1257.70
29000.0	160.0	19768.5	9071.4	42.7	1900.8	2465.6	21864.5	4126.4	1257.70
6.09	3.75	10.40	3.68	.050	.030	.050	.000	1254.70	9840.00
.003202	255.	245.	240.	3	12	0	.00	1370.00	11210.00

\*SECNO 25.666

3265 DIVIDED FLOW

3470 ENCROACHMENT STATIONS=	9830.0	10810.0	TYPE=	1	TARGET=	980.000			
25.666	8.78	1264.18	1262.94	1264.04	1265.38	1.20	1.45	.00	1259.80
29000.0	187.4	20985.4	7827.3	52.8	2089.7	2002.2	21912.5	4139.1	1258.30
6.11	3.55	10.04	3.91	.050	.030	.050	.000	1255.40	9830.00
.002733	525.	497.	480.	2	11	0	.00	914.56	10810.00

\*SECNO 25.691

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SECNO	DEPTH	CWSEL	CRINS	WSELK	EG	HV	HL	OLOSS	L-BANK ELEV
Q	QLOB	QCH	QROB	ALOB	ACH	AROB	VOL	TWA	R-BANK ELEV
TIME	VLOB	VCH	VROB	XNL	XNCH	XNR	WTN	ELMIN	SSTA
SLOPE	XLOBL	XLCH	XLOBR	ITRIAL	IDC	ICONT	CORAR	TOPWID	ENDST

3470 ENCROACHMENT STATIONS=	9521.0	10500.0	TYPE=	1	TARGET=	979.000			
25.691	7.82	1265.82	1264.09	1265.52	1266.52	.70	1.09	.05	1263.60
29000.0	.4	26061.1	2938.5	.7	3706.4	968.3	21959.0	4149.1	1262.00
6.13	.55	7.03	3.03	.050	.030	.050	.000	1258.00	9521.00
.002082	470.	460.	460.	2	19	0	.00	979.00	10500.00

\*SECNO 25.720

3301 HV CHANGED MORE THAN HVINS

7185 MINIMUM SPECIFIC ENERGY  
3720 CRITICAL DEPTH ASSUMED

3470 ENCROACHMENT STATIONS=	9370.0	10300.0	TYPE=	1	TARGET=	930.000			
25.720	8.96	1266.76	1266.76	1266.39	1268.52	1.76	1.22	.32	1264.00
29000.0	6465.6	14292.1	8242.4	1455.5	1028.5	1188.3	21994.1	4157.1	1260.00
6.14	4.44	13.90	6.94	.050	.030	.050	.000	1257.80	9370.00
.006056	355.	375.	355.	0	8	0	.00	930.00	10300.00

\*SECNO 25.790

3301 HV CHANGED MORE THAN HVINS

3302 WARNING: CONVEYANCE CHANGE OUTSIDE OF ACCEPTABLE RANGE, KRATIO = 1.63

3470 ENCROACHMENT STATIONS=	9300.0	10250.0	TYPE=	1	TARGET=	950.000			
25.790	10.15	1268.95	1267.40	1268.35	1269.83	.87	1.22	.09	1264.00
29000.0	9157.9	12248.4	7593.6	2533.2	1189.6	1428.2	22029.6	4164.7	1260.00
6.15	3.62	10.30	5.32	.050	.030	.050	.000	1258.80	9300.00
.002267	350.	350.	350.	2	11	0	.00	950.00	10250.00

\*SECNO 25.860

3470 ENCROACHMENT STATIONS=	9150.0	10201.0	TYPE=	1	TARGET=	1051.000			
25.860	9.68	1269.68	1268.62	1268.84	1270.80	1.12	.90	.07	1264.00
29000.0	7600.1	21393.4	6.4	2456.4	2206.2	5.1	22074.7	4173.8	1264.00
6.17	3.09	9.70	1.25	.050	.030	.050	.000	1260.00	9150.00
.002223	400.	400.	400.	3	15	0	.00	1051.00	10201.00

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SECNO	DEPTH	CWSEL	CRISW	WSELK	EG	HV	HL	OLOSS	L-BANK ELEV
Q	QLOB	QCH	QROB	ALOB	ACH	AROB	VOL	TWA	R-BANK ELEV
TIME	VLOB	VCH	VROB	XNL	XNCH	XNR	WTN	ELMIN	SSTA
SLOPE	XLOBL	XLCH	XLOBR	ITRIAL	IDC	ICONT	CORAR	TOPWID	ENDST

\*SECNO 25.940  
7185 MINIMUM SPECIFIC ENERGY  
3720 CRITICAL DEPTH ASSUMED

3470 ENCROACHMENT STATIONS=	9080.0	10280.0	TYPE=	1	TARGET=	1200.000			
25.940	8.77	1272.17	1272.17	1271.77	1273.62	1.45	1.66	.10	1269.20
29000.0	9493.5	13765.9	5740.5	2214.9	1069.8	861.0	22119.1	4185.3	1267.00
6.18	4.29	12.87	6.67	.060	.035	.065	.000	1263.40	9080.00
.008045	450.	430.	420.	0	10	0	.00	1200.00	10280.00

\*SECNO 26.030

3301 HV CHANGED MORE THAN HVINS

3302 WARNING: CONVEYANCE CHANGE OUTSIDE OF ACCEPTABLE RANGE, KRATIO = 1.83

3470 ENCROACHMENT STATIONS=	9170.0	10690.0	TYPE=	1	TARGET=	1520.000			
26.030	8.71	1275.01	1273.00	1274.11	1275.42	.42	1.70	.10	1272.10
29000.0	7605.8	16500.8	4893.5	2128.7	2629.8	1895.8	22170.0	4197.8	1269.60
6.21	3.57	6.27	2.58	.060	.035	.065	.000	1266.30	9170.00
.002401	310.	460.	500.	3	19	0	.00	1520.00	10690.00

\*SECNO 26.120

3470 ENCROACHMENT STATIONS=	9180.0	11020.0	TYPE=	1	TARGET=	1840.000			
26.120	8.60	1276.20	1274.51	1275.23	1276.56	.36	1.13	.01	1273.50
29000.0	8835.4	11520.8	8643.8	2497.6	1755.2	3228.6	22244.1	4215.7	1273.80
6.23	3.54	6.56	2.68	.060	.035	.065	.000	1267.60	9180.00
.002589	410.	450.	505.	3	14	0	.00	1840.00	11020.00

\*SECNO 26.200

3302 WARNING: CONVEYANCE CHANGE OUTSIDE OF ACCEPTABLE RANGE, KRATIO = .63

3470 ENCROACHMENT STATIONS=	9230.0	11060.0	TYPE=	1	TARGET=	1830.000			
26.200	8.45	1277.65	1277.24	1276.79	1278.50	.84	1.79	.15	1275.50
29000.0	5150.8	16178.0	7671.2	1273.8	1744.3	2144.6	22310.8	4235.0	1276.90
6.25	4.04	9.27	3.58	.060	.035	.065	.000	1269.20	9230.00
.006539	460.	460.	460.	2	10	0	.00	1830.00	11060.00

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SECNO	DEPTH	CWSEL	CRISW	WSELK	EG	HV	HL	OLOSS	L-BANK ELEV
Q	QLOB	QCH	QROB	ALOB	ACH	AROB	VOL	TWA	R-BANK ELEV
TIME	VLOB	VCH	VROB	XNL	XNCH	XNR	WTN	ELMIN	SSTA
SLOPE	XLOBL	XLCH	XLOBR	ITRIAL	IDC	ICONT	CORAR	TOPWID	ENDST

\*SECNO 26.290

3470 ENCROACHMENT STATIONS=	9380.0	11060.0	TYPE=	1	TARGET=	1680.000			
26.290	8.32	1279.92	1278.63	1279.01	1280.55	.63	2.04	.02	1276.70
29000.0	6497.9	17522.5	4979.6	1557.5	2281.4	2025.7	22365.8	4252.3	1278.80
6.27	4.17	7.68	2.46	.060	.035	.065	.000	1271.60	9380.00
.003478	460.	440.	410.	2	12	0	.00	1680.00	11060.00

\*SECNO 26.370

3470 ENCROACHMENT STATIONS=	9480.0	10990.0	TYPE=	1	TARGET=	1510.000			
26.370	9.56	1281.46	1280.05	1280.59	1282.08	.62	1.52	.00	1278.00
29000.0	6487.0	15086.8	7426.2	1503.9	1876.0	2732.4	22430.0	4269.3	1276.60
6.29	4.31	8.04	2.72	.060	.035	.065	.000	1271.90	9480.00
.003066	490.	460.	460.	2	8	0	.00	1510.00	10990.00

\*SECNO 26.470

3470 ENCROACHMENT STATIONS=	9500.0	10820.0	TYPE=	1	TARGET=	1320.000			
26.470	7.73	1283.03	1281.59	1282.05	1283.70	.67	1.61	.02	1280.10
27000.0	1280.8	18279.8	7439.4	420.8	2376.3	2418.4	22493.6	4285.1	1280.30
6.32	3.04	7.69	3.08	.060	.035	.070	.000	1275.30	9500.00
.003552	510.	490.	480.	2	14	0	.00	1320.00	10820.00

\*SECNO 26.550

3470 ENCROACHMENT STATIONS=	9600.0	10730.0	TYPE=	1	TARGET=	1130.000			
26.550	8.10	1284.70	1283.45	1283.99	1285.48	.77	1.74	.03	1283.30
27000.0	560.2	16577.7	9862.1	227.9	1951.1	2603.7	22542.9	4297.2	1280.00

6.33	2.46	8.50	3.79	.060	.035	.070	.000	1276.60	9600.00
.004668	420.	430.	430.	2	15	0	.00	1130.00	10730.00

\*SECNO 26.630

3470 ENCROACHMENT STATIONS=	9780.0	10770.0	TYPE=	1	TARGET=	990.000			
26.630	7.25	1286.65	1284.02	1285.76	1287.12	.48	1.62	.03	1284.10
27000.0	66.5	14440.4	12493.1	31.2	2129.1	3460.5	22598.5	4308.5	1281.80
6.36	2.13	6.78	3.61	.060	.035	.070	.000	1279.40	9780.00
.002700	440.	460.	470.	2	11	0	.00	990.00	10770.00

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SECNO	DEPTH	CWSEL	CRWS	WSELK	EG	HV	HL	OLOSS	L-BANK ELEV
Q	QLOB	QCH	QROB	ALOB	ACH	AROB	VOL	TWA	R-BANK ELEV
TIME	VLOB	VCH	VROB	XLN	XNCH	XNR	WTN	ELMIN	SSTA
SLOPE	XLOBL	XLCH	XLOBR	ITRIAL	IDC	ICONT	CORAR	TOPWID	ENDST

\*SECNO 26.730

3470 ENCROACHMENT STATIONS=	9870.0	10850.0	TYPE=	1	TARGET=	980.000			
26.730	7.95	1287.75	1284.97	1286.89	1288.28	.52	1.14	.01	1280.70
27000.0	561.3	13326.3	13112.4	167.4	1752.7	4070.8	22662.0	4319.3	1279.90
6.38	3.35	7.60	3.22	.060	.035	.070	.000	1279.80	9870.00
.002101	460.	490.	470.	3	19	0	.00	980.00	10850.00

\*SECNO 26.830

3302 WARNING: CONVEYANCE CHANGE OUTSIDE OF ACCEPTABLE RANGE, KRATIO = .65

3470 ENCROACHMENT STATIONS=	9874.0	10870.0	TYPE=	1	TARGET=	996.000			
26.830	6.78	1288.78	1287.65	1288.37	1289.80	1.02	1.37	.15	1282.60
27000.0	308.6	14747.1	11944.2	80.8	1432.8	2883.3	22709.6	4328.0	1282.30
6.40	3.82	10.29	4.14	.060	.035	.070	.000	1282.00	9874.00
.005037	550.	540.	330.	2	19	0	.00	996.00	10870.00

\*SECNO 26.940

3302 WARNING: CONVEYANCE CHANGE OUTSIDE OF ACCEPTABLE RANGE, KRATIO = 1.48

3470 ENCROACHMENT STATIONS=	9806.0	10710.0	TYPE=	1	TARGET=	904.000			
26.940	8.62	1290.72	1288.64	1290.17	1291.50	.79	1.68	.02	1282.10
27000.0	3823.6	17009.4	6167.0	902.5	1981.9	2267.2	22760.4	4337.4	1282.10
6.42	4.24	8.58	2.72	.060	.035	.070	.000	1282.10	9806.00
.002313	620.	590.	350.	2	8	0	.00	904.00	10710.00

\*SECNO 27.030

3470 ENCROACHMENT STATIONS=	9704.0	10500.0	TYPE=	1	TARGET=	796.000			
27.030	10.71	1291.91	1289.08	1291.21	1292.61	.70	1.10	.01	1287.20
27000.0	11223.2	10804.1	4972.7	1989.9	1246.4	1747.7	22809.4	4345.2	1286.20
6.44	5.64	8.67	2.85	.060	.035	.070	.000	1281.20	9704.00
.002641	490.	460.	340.	2	11	0	.00	796.00	10500.00

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SECNO	DEPTH	CWSEL	CRWS	WSELK	EG	HV	HL	OLOSS	L-BANK ELEV
Q	QLOB	QCH	QROB	ALOB	ACH	AROB	VOL	TWA	R-BANK ELEV
TIME	VLOB	VCH	VROB	XLN	XNCH	XNR	WTN	ELMIN	SSTA
SLOPE	XLOBL	XLCH	XLOBR	ITRIAL	IDC	ICONT	CORAR	TOPWID	ENDST

\*SECNO 27.110

3470 ENCROACHMENT STATIONS=	9130.0	10140.0	TYPE=	1	TARGET=	1010.000			
27.110	9.45	1293.15	1290.35	1292.70	1293.56	.41	.93	.03	1288.00
27000.0	19032.8	7957.3	9.9	4359.7	1198.6	7.4	22848.9	4352.0	1291.30
6.46	4.37	6.64	1.33	.060	.035	.070	.000	1283.70	9130.00
.002883	280.	420.	360.	2	14	0	.00	1010.00	10140.00

\*SECNO 27.190

3470 ENCROACHMENT STATIONS=	8700.0	10050.0	TYPE=	1	TARGET=	1350.000			
27.190	8.54	1294.54	1292.86	1293.80	1295.04	.51	1.45	.03	1288.20
27000.0	13673.4	13326.0	.6	4141.3	1796.6	.9	22921.9	4367.1	1293.60
6.49	3.30	7.42	.67	.060	.035	.070	.000	1286.00	8700.00
.002617	600.	420.	360.	2	16	0	.00	1350.00	10050.00

\*SECNO 27.300

3470 ENCROACHMENT STATIONS= 8490.0 10082.0 TYPE= 1 TARGET= 1592.000  
 27.300 7.03 1296.23 1294.99 1295.36 1296.77 .54 1.72 .01 1292.20  
 27000.0 13549.7 13450.2 .0 4374.9 1740.0 .1 23010.9 4389.2 1296.10  
 6.52 3.10 7.73 .27 .060 .035 .070 .000 1289.20 8490.00  
 .002886 670. 580. 470. 2 19 0 .00 1592.00 10082.00

\*SECNO 27.390

3470 ENCROACHMENT STATIONS= 8400.0 10070.0 TYPE= 1 TARGET= 1670.000  
 27.390 7.60 1297.90 1296.84 1297.02 1298.53 .62 1.73 .03 1290.30  
 27000.0 15719.1 11271.3 9.5 4466.5 1267.6 7.0 23097.2 4413.9 1290.80  
 6.55 3.52 8.89 1.36 .055 .035 .055 .000 1290.30 8400.00  
 .002987 690. 470. 470. 2 11 0 .00 1670.00 10070.00

\*SECNO 27.480

3470 ENCROACHMENT STATIONS= 8500.0 10130.0 TYPE= 1 TARGET= 1630.000  
 27.480 8.15 1299.65 1298.62 1298.67 1300.25 .59 1.72 .00 1294.90  
 27000.0 14138.4 11419.9 1441.7 4211.4 1336.0 294.5 23175.6 4436.8 1292.80  
 6.58 3.36 8.55 4.90 .055 .035 .055 .000 1291.50 8500.00  
 .003074 620. 500. 500. 2 12 0 .00 1630.00 10130.00

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SECNO	DEPTH	CWSEL	CRISW	WSELK	EG	HV	HL	OLOSS	L-BANK ELEV
Q	QLOB	QCH	QROB	ALOB	ACH	AROB	VOL	TWA	R-BANK ELEV
TIME	VLOB	VCH	VROB	XNL	XNCH	XNR	WTN	ELMIN	SSTA
SLOPE	XLOBL	XLCH	XLOBR	ITRIAL	IDC	ICONT	CORAR	TOPWID	ENDST

\*SECNO 27.580

3470 ENCROACHMENT STATIONS= 8700.0 10114.0 TYPE= 1 TARGET= 1414.000  
 27.580 8.44 1301.54 1299.63 1300.64 1301.98 .44 1.72 .01 1297.80  
 27000.0 17083.3 9908.0 8.7 4662.5 1338.8 6.9 23263.7 4460.1 1294.50  
 6.61 3.66 7.40 1.25 .055 .035 .055 .000 1293.10 8700.00  
 .002539 690. 520. 520. 2 15 0 .00 1414.00 10114.00

\*SECNO 27.680

3470 ENCROACHMENT STATIONS= 8930.0 10101.0 TYPE= 1 TARGET= 1171.000  
 27.680 8.46 1303.16 1302.08 1302.30 1303.94 .78 1.85 .10 1301.60  
 27000.0 14544.1 11931.8 524.1 3154.6 1283.9 107.3 23331.2 4476.7 1294.70  
 6.63 4.61 9.29 4.88 .055 .035 .055 .000 1294.70 8930.00  
 .004702 570. 520. 520. 2 15 0 .00 1171.00 10101.00

\*SECNO 27.770

3470 ENCROACHMENT STATIONS= 8980.0 10105.0 TYPE= 1 TARGET= 1125.000  
 27.770 7.91 1305.31 1304.33 1304.47 1306.16 .85 2.20 .02 1303.20  
 27000.0 12416.8 14308.0 275.2 2904.9 1534.2 64.2 23381.4 4489.4 1297.40  
 6.65 4.27 9.33 4.29 .055 .035 .055 .000 1297.40 8980.00  
 .004388 480. 490. 500. 2 15 0 .00 1125.00 10105.00

\*SECNO 27.860

3470 ENCROACHMENT STATIONS= 9060.0 10100.0 TYPE= 1 TARGET= 1040.000  
 27.860 9.51 1307.01 1305.34 1306.05 1307.61 .61 1.43 .02 1302.60  
 25000.0 8402.3 15825.2 772.5 2736.6 2113.6 208.6 23433.5 4501.2 1297.50  
 6.67 3.07 7.49 3.70 .055 .035 .055 .000 1297.50 9060.00  
 .002131 475. 475. 475. 2 6 0 .00 1040.00 10100.00

\*SECNO 27.940

3470 ENCROACHMENT STATIONS= 9320.0 10203.0 TYPE= 1 TARGET= 883.000  
 27.940 9.09 1308.19 1306.78 1307.44 1308.91 .72 1.26 .03 1304.10  
 25000.0 13569.7 11285.3 144.9 2803.5 1314.1 43.8 23478.5 4510.6 1303.50  
 6.69 4.84 8.59 3.31 .055 .035 .055 .000 1299.10 9320.00  
 .004322 415. 440. 440. 2 14 0 .00 883.00 10203.00

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SECNO	DEPTH	CWSEL	CRISW	WSELK	EG	HV	HL	OLOSS	L-BANK ELEV
Q	QLOB	QCH	QROB	ALOB	ACH	AROB	VOL	TWA	R-BANK ELEV
TIME	VLOB	VCH	VROB	XNL	XNCH	XNR	WTN	ELMIN	SSTA
SLOPE	XLOBL	XLCH	XLOBR	ITRIAL	IDC	ICONT	CORAR	TOPWID	ENDST

\*SECNO 28.040

3280 CROSS SECTION 28.04 EXTENDED .15 FEET

3470 ENCROACHMENT STATIONS= 9480.0 10440.0 TYPE= 1 TARGET= 960.000

28.040	6.65	1310.25	1308.32	1309.51	1310.84	.59	1.92	.01	1304.60
25000.0	9259.3	11271.6	4469.0	1898.6	1461.8	1249.6	23531.5	4521.7	1307.50
6.72	4.88	7.71	3.58	.055	.035	.055	.000	1303.60	9480.00
.003167	550.	500.	500.	2	11	0	.00	960.00	10440.00

\*SECNO 28.120

3470 ENCROACHMENT STATIONS=	9600.0	10570.0	TYPE=	1	TARGET=	970.000			
28.120	7.03	1311.63	1310.12	1310.69	1312.59	.96	1.63	.11	1304.90
25000.0	9384.0	11909.0	3707.0	1698.5	1181.1	1059.6	23575.6	4531.7	1304.60
6.73	5.52	10.08	3.50	.055	.035	.055	.000	1304.60	9600.00
.004254	440.	450.	460.	2	11	0	.00	970.00	10570.00

\*SECNO 28.210

3470 ENCROACHMENT STATIONS=	9700.0	10650.0	TYPE=	1	TARGET=	950.000			
28.210	8.88	1313.28	1311.11	1312.36	1314.11	.83	1.51	.01	1306.90
25000.0	2336.7	17981.1	4682.2	564.6	2155.2	1512.8	23620.6	4542.3	1304.40
6.75	4.14	8.34	3.10	.055	.035	.055	.000	1304.40	9700.00
.002432	480.	480.	480.	2	8	0	.00	950.00	10650.00

\*SECNO 28.310

3470 ENCROACHMENT STATIONS=	9710.0	10720.0	TYPE=	1	TARGET=	1010.000			
28.310	8.70	1314.60	1312.98	1313.63	1315.37	.76	1.24	.01	1307.70
25000.0	7200.7	13186.1	4613.2	1476.4	1500.1	1612.0	23669.6	4553.2	1307.30
6.77	4.88	8.79	2.86	.055	.035	.055	.000	1305.90	9710.00
.002708	465.	490.	490.	2	15	0	.00	1010.00	10720.00

\*SECNO 28.390

3470 ENCROACHMENT STATIONS=	9870.0	10730.0	TYPE=	1	TARGET=	860.000			
28.390	9.03	1315.73	1313.66	1315.03	1316.65	.92	1.23	.05	1308.60
25000.0	261.7	14662.1	10076.2	68.2	1559.5	2386.3	23711.9	4562.4	1308.80
6.79	3.84	9.40	4.22	.055	.035	.055	.000	1306.70	9870.00
.003046	400.	435.	435.	2	14	0	.00	860.00	10730.00

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SECNO	DEPTH	CWSEL	CRIWS	WSELK	EG	HV	HL	OLOSS	L-BANK ELEV
Q	QLOB	QCH	QROB	ALOB	ACH	AROB	VOL	TWA	R-BANK ELEV
TIME	VLOB	VCH	VROB	XNL	XNCH	XNR	WTN	ELMIN	SSTA
SLOPE	XLOBL	XLCH	XLOBR	ITRIAL	IDC	ICONT	CORAR	TOPWID	ENDST

\*SECNO 28.450

3301 HV CHANGED MORE THAN HVINS

3470 ENCROACHMENT STATIONS=	9936.0	10440.0	TYPE=	1	TARGET=	504.000			
28.450	9.94	1316.64	1315.04	1315.94	1318.15	1.51	1.33	.18	1315.60
25000.0	.0	19959.7	5040.3	.0	1862.0	985.4	23742.5	4568.9	1311.00
6.80	.00	10.72	5.11	.000	.035	.055	.000	1306.70	9936.00
.004489	270.	320.	460.	2	8	0	.00	504.00	10440.00

\*SECNO 28.520

3470 ENCROACHMENT STATIONS=	9956.0	10350.0	TYPE=	1	TARGET=	394.000			
28.520	11.21	1318.31	1315.43	1317.43	1319.42	1.12	1.24	.04	1307.70
25000.0	245.1	18933.4	5821.5	63.5	2039.3	1091.9	23767.5	4572.6	1311.00
6.81	3.86	9.28	5.33	.055	.035	.055	.000	1307.10	9956.00
.002713	360.	360.	360.	2	15	0	.00	394.00	10350.00

\*SECNO 28.580

3470 ENCROACHMENT STATIONS=	9954.0	10340.0	TYPE=	1	TARGET=	386.000			
28.580	10.23	1319.23	1316.13	1318.32	1320.26	1.04	.83	.01	1309.10
25000.0	55.1	23387.8	1557.0	24.5	2789.0	368.5	23792.4	4575.6	1310.90
6.82	2.25	8.39	4.23	.055	.035	.055	.000	1309.00	9954.00
.002220	340.	340.	340.	2	14	0	.00	386.00	10340.00

\*SECNO 28.670

3301 HV CHANGED MORE THAN HVINS

3470 ENCROACHMENT STATIONS=	9950.0	10300.0	TYPE=	1	TARGET=	350.000			
28.670	8.63	1320.13	1318.38	1319.51	1321.81	1.68	1.35	.19	1311.50
25000.0	270.7	20347.4	4381.9	62.7	1820.2	718.6	23821.7	4579.3	1312.20
6.84	4.32	11.18	6.10	.055	.035	.055	.000	1311.50	9950.00
.004345	470.	460.	360.	2	14	0	.00	350.00	10300.00

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SECNO	DEPTH	CWSEL	CRISWS	WSELK	EG	HV	HL	OLOSS	L-BANK ELEV
Q	QLOB	QCH	QROB	ALOB	ACH	AROB	VOL	TWA	R-BANK ELEV
TIME	VLOB	VCH	VROB	XNL	XNCH	XNR	WTN	ELMIN	SSTA
SLOPE	XLOBL	XLCH	XLOBR	ITRIAL	IDC	ICONT	CORAR	TOPWID	ENDST

\*SECNO 28.760

3470 ENCROACHMENT STATIONS=	9910.0	10260.0	TYPE=	1	TARGET=	350.000			
28.760	9.55	1322.05	1319.81	1321.06	1323.55	1.50	1.72	.02	1321.20
25000.0	.7	24028.8	970.4	.9	2403.9	246.9	23848.6	4582.8	1317.40
6.85	.83	10.00	3.93	.055	.035	.055	.000	1312.50	9917.88
.003284	500.	475.	320.	2	15	0	.00	342.12	10260.00

\*SECNO 28.860

3470 ENCROACHMENT STATIONS=	9912.0	10400.0	TYPE=	1	TARGET=	488.000			
28.860	10.85	1323.95	1322.43	1323.02	1325.28	1.33	1.71	.02	1322.70
25000.0	.0	20233.4	4766.6	.0	2010.9	1060.3	23879.4	4587.1	1321.30
6.86	.00	10.06	4.50	.000	.035	.055	.000	1313.10	9912.00
.003696	550.	515.	310.	2	8	0	.00	488.00	10400.00

\*SECNO 28.950

3470 ENCROACHMENT STATIONS=	9946.0	10600.0	TYPE=	1	TARGET=	654.000			
28.950	13.62	1325.92	1324.34	1325.31	1326.91	.99	1.59	.03	1325.00
25000.0	.0	21698.2	3301.8	.0	2573.4	893.5	23911.3	4592.4	1324.50
6.88	.00	8.43	3.70	.000	.035	.055	.000	1312.30	9946.00
.003422	500.	475.	310.	2	8	0	.00	654.00	10600.00

\*SECNO 29.040

3302 WARNING: CONVEYANCE CHANGE OUTSIDE OF ACCEPTABLE RANGE, KRATIO = 1.42

3470 ENCROACHMENT STATIONS=	9827.0	10630.0	TYPE=	1	TARGET=	803.000			
29.040	10.33	1327.53	1324.73	1326.82	1328.07	.54	1.12	.04	1317.30
25000.0	10.6	19097.9	5891.4	10.1	2941.3	1804.2	23953.9	4599.6	1324.30
6.90	1.05	6.49	3.27	.055	.035	.055	.000	1317.20	9827.00
.001700	550.	510.	330.	2	11	0	.00	803.00	10630.00

\*SECNO 29.140

3470 ENCROACHMENT STATIONS=	9760.0	10520.0	TYPE=	1	TARGET=	760.000			
29.140	9.01	1328.41	1326.49	1327.82	1329.10	.69	.99	.05	1325.30
23000.0	973.0	18118.0	3909.1	337.1	2502.6	967.7	23998.2	4607.5	1325.60
6.92	2.89	7.24	4.04	.055	.035	.055	.000	1319.40	9760.00
.002747	560.	500.	340.	2	19	0	.00	760.00	10520.00

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SECNO	DEPTH	CWSEL	CRISWS	WSELK	EG	HV	HL	OLOSS	L-BANK ELEV
Q	QLOB	QCH	QROB	ALOB	ACH	AROB	VOL	TWA	R-BANK ELEV
TIME	VLOB	VCH	VROB	XNL	XNCH	XNR	WTN	ELMIN	SSTA
SLOPE	XLOBL	XLCH	XLOBR	ITRIAL	IDC	ICONT	CORAR	TOPWID	ENDST

\*SECNO 29.230

3470 ENCROACHMENT STATIONS=	9720.0	10455.0	TYPE=	1	TARGET=	735.000			
29.230	8.32	1329.72	1328.16	1328.95	1330.54	.82	1.40	.04	1328.30
23000.0	2468.5	19773.8	757.7	672.4	2563.8	254.0	24036.8	4615.4	1327.00
6.94	3.67	7.71	2.98	.055	.035	.055	.000	1321.40	9720.00
.003285	515.	475.	360.	2	19	0	.00	732.72	10452.72

\*SECNO 29.300

3470 ENCROACHMENT STATIONS=	9720.0	10410.0	TYPE=	1	TARGET=	690.000			
29.300	8.93	1331.23	1330.28	1330.28	1332.23	.99	1.63	.05	1326.50
23000.0	3773.1	19226.9	.0	774.9	2267.9	.0	24066.9	4621.9	100000.00
6.96	4.87	8.48	.00	.055	.035	.000	.000	1322.30	9720.00
.005196	410.	400.	360.	2	10	0	.00	690.00	10410.00

\*SECNO 29.390

3302 WARNING: CONVEYANCE CHANGE OUTSIDE OF ACCEPTABLE RANGE, KRATIO = 1.49

3470 ENCROACHMENT STATIONS=	9693.0	10300.0	TYPE=	1	TARGET=	607.000			
29.390	8.43	1333.03	1330.71	1332.48	1333.73	.69	1.47	.03	1331.40
23000.0	1.6	22529.2	469.3	1.6	3340.0	162.4	24099.9	4628.4	1329.30
6.97	.95	6.75	2.89	.055	.035	.055	.000	1324.60	9693.00
.002336	440.	440.	410.	2	19	0	.00	607.00	10300.00

\*SECNO 29.470

3470 ENCROACHMENT STATIONS=	9660.0	10211.0	TYPE=	1	TARGET=	551.000				
29.470	9.87	1333.97	1331.44	1333.38	1334.87	.91	1.08	.06	1331.00	
23000.0	863.9	22135.3	.8	346.6	2850.1	1.0	24134.0	4634.3	1333.00	
6.99	2.49	7.77	.85	.055	.035	.055	.000	1324.10	9660.00	
.002543	445.	445.	385.	2	11	0	.00	551.00	10211.00	

\*SECNO 29.540

3470 ENCROACHMENT STATIONS=	9620.0	10151.0	TYPE=	1	TARGET=	531.000				
29.540	8.18	1334.88	1333.07	1334.19	1336.01	1.13	1.07	.07	1332.20	
23000.0	3295.5	19704.5	.0	848.1	2170.8	.0	24161.1	4639.0	1340.70	
7.00	3.89	9.08	.00	.055	.035	.000	.000	1326.70	9620.00	
.003148	380.	380.	380.	1	14	0	.00	515.89	10135.89	

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SECNO	DEPTH	CWSEL	CRISW	WSELK	EG	HV	HL	OLOSS	L-BANK ELEV
Q	QLOB	QCH	QROB	ALOB	ACH	AROB	VOL	TWA	R-BANK ELEV
TIME	VLOB	VCH	VROB	XNL	XNCH	XNR	WTN	ELMIN	SSTA
SLOPE	XLOBL	XLCH	XLOBR	ITRIAL	IDC	ICONT	CORAR	TOPWID	ENDST

\*SECNO 29.611

3301 HV CHANGED MORE THAN HVINS

3302 WARNING: CONVEYANCE CHANGE OUTSIDE OF ACCEPTABLE RANGE, KRATIO = .59

3470 ENCROACHMENT STATIONS=	9620.0	10110.0	TYPE=	1	TARGET=	490.000				
***** BEARDSLEY CANAL FLUME *										
***** LOW CHORD = 1347.0 ***										
29.611	7.10	1336.00	1335.91	1336.02	1338.14	2.14	1.82	.30	1334.00	
23000.0	2589.2	20261.9	148.9	499.8	1640.1	35.3	24182.5	4643.0	1331.60	
7.01	5.18	12.35	4.22	.055	.035	.055	.000	1328.90	9620.00	
.008933	315.	375.	315.	2	15	0	.00	490.00	10110.00	

SPECIAL BRIDGE

SB	XK	XKOR	COFQ	RDLEN	BWC	BWP	BAREA	SS	ELCHU	ELCHD
1.35	1.60	2.60	.00	960.00	47.00	14933.00	5.50	1332.00	1332.00	

\*SECNO 29.624

BTCARD, BRIDGE STENCL= 9620.00 STENCR= 10128.00

3301 HV CHANGED MORE THAN HVINS

3302 WARNING: CONVEYANCE CHANGE OUTSIDE OF ACCEPTABLE RANGE, KRATIO = 1.65

CLASS A LOW FLOW

3420 BRIDGE W.S.=	1335.92	BRIDGE VELOCITY=	6.28	CALCULATED CHANNEL AREA=	3661.				
EGPRS	EGLWC	H3	QWEIR	QLOW	BAREA	TRAPEZOID AREA	ELLC	ELTRD	WEIRLN
.00	1338.81	1.68	0.	23000.	14933.	14933.	1347.00	1353.60	0.

3470 ENCROACHMENT STATIONS= 9620.0 10128.0 TYPE= 1 TARGET= 508.000

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SECNO	DEPTH	CWSEL	CRISW	WSELK	EG	HV	HL	OLOSS	L-BANK ELEV
Q	QLOB	QCH	QROB	ALOB	ACH	AROB	VOL	TWA	R-BANK ELEV
TIME	VLOB	VCH	VROB	XNL	XNCH	XNR	WTN	ELMIN	SSTA
SLOPE	XLOBL	XLCH	XLOBR	ITRIAL	IDC	ICONT	CORAR	TOPWID	ENDST

3495 OVERBANK AREA ASSUMED NON-EFFECTIVE, ELLEA= 1335.30 ELREA= 1348.10

29.624	9.18	1337.68	.00	1336.83	1338.81	1.12	.67	.00	1335.30
23000.0	2126.7	20873.3	.0	568.6	2357.6	.0	24186.6	4643.8	1348.10
7.01	3.74	8.85	.00	.055	.035	.000	.000	1328.50	9620.00
.003282	70.	70.	70.	0	0	0	.00	484.00	10104.00

\*SECNO 29.720

3301 HV CHANGED MORE THAN HVINS

3470 ENCROACHMENT STATIONS=	9560.0	10225.0	TYPE=	1	TARGET=	665.000			
29.720	9.10	1339.60	1337.03	1338.85	1340.19	.59	1.33	.05	1336.50
23000.0	3796.0	19200.0	4.0	1109.9	2912.4	3.6	24225.2	4650.1	1335.70
7.04	3.42	6.59	1.12	.055	.040	.055	.000	1330.50	9560.00
.002290	450.	495.	495.	2	19	0	.00	665.00	10225.00

\*SECNO 29.800

3470 ENCROACHMENT STATIONS=	9820.0	10460.0	TYPE=	1	TARGET=	640.000			
29.800	12.91	1340.61	1335.52	1339.98	1340.98	.36	.76	.02	1338.90
23000.0	78.9	13864.3	9056.8	74.0	2619.7	2238.9	24272.5	4657.0	1337.60
7.06	1.07	5.29	4.05	.055	.040	.055	.000	1327.70	9820.00
.001251	460.	460.	460.	2	15	0	.00	640.00	10460.00

\*SECNO 29.890

3470 ENCROACHMENT STATIONS=	9870.0	10500.0	TYPE=	1	TARGET=	630.000			
29.890	11.65	1341.25	1336.32	1340.69	1341.64	.39	.66	.01	1341.10
23000.0	.6	4749.4	18250.0	2.7	918.0	3661.8	24320.8	4663.5	1341.00
7.09	.23	5.17	4.98	.055	.040	.055	.000	1329.60	9870.00
.001787	450.	445.	440.	2	11	0	.00	630.00	10500.00

\*SECNO 29.990

3265 DIVIDED FLOW

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SECNO	DEPTH	CWSEL	CRISWS	WSELK	EG	HV	HL	OLOSS	L-BANK ELEV
Q	QLOB	QCH	QROB	ALOB	ACH	AROB	VOL	TWA	R-BANK ELEV
TIME	VLOB	VCH	VROB	XNL	XNCH	XNR	WTN	ELMIN	SSTA
SLOPE	XLOBL	XLCH	XLOBR	ITRIAL	IDC	ICONT	CORAR	TOPWID	ENDST

3301 HV CHANGED MORE THAN HVINS

3302 WARNING: CONVEYANCE CHANGE OUTSIDE OF ACCEPTABLE RANGE, KRATIO = .46

3470 ENCROACHMENT STATIONS=	9850.0	10400.0	TYPE=	1	TARGET=	550.000			
29.990	9.30	1342.20	1341.31	1341.53	1343.67	1.47	1.71	.32	1346.60
23000.0	1.7	13384.8	9613.5	1.4	1192.1	1351.3	24362.3	4669.9	1344.10
7.10	1.15	11.23	7.11	.055	.040	.055	.000	1332.90	9850.00
.008389	550.	525.	500.	2	19	0	.00	477.85	10400.00

\*SECNO 30.070

3301 HV CHANGED MORE THAN HVINS

3302 WARNING: CONVEYANCE CHANGE OUTSIDE OF ACCEPTABLE RANGE, KRATIO = 1.65

3470 ENCROACHMENT STATIONS=	9780.0	10280.0	TYPE=	1	TARGET=	500.000			
30.070	11.22	1345.22	1342.12	1344.36	1345.99	.77	2.25	.07	1344.60
23000.0	2600.3	10737.7	9661.9	639.9	1337.9	1477.8	24394.8	4675.2	1344.50
7.12	4.06	8.03	6.54	.055	.040	.055	.000	1334.00	9780.00
.003099	425.	450.	500.	2	15	0	.00	496.81	10276.81

\*SECNO 30.170

3470 ENCROACHMENT STATIONS=	9740.0	10160.0	TYPE=	1	TARGET=	420.000			
30.170	10.97	1346.57	1343.09	1346.14	1347.37	.80	1.37	.01	1339.80
23000.0	3474.1	16866.4	2659.5	809.0	2129.6	555.2	24436.1	4680.6	1339.30
7.14	4.29	7.92	4.79	.055	.040	.055	.000	1335.60	9740.00
.002260	440.	520.	570.	2	19	0	.00	420.00	10160.00

\*SECNO 30.260

3470 ENCROACHMENT STATIONS=	9748.0	10260.0	TYPE=	1	TARGET=	512.000			
30.260	8.93	1347.83	1344.06	1347.17	1348.38	.55	.98	.03	1342.10
23000.0	5.7	18830.4	4163.9	5.5	3019.1	961.7	24477.8	4685.7	1339.30
7.17	1.04	6.24	4.33	.055	.040	.055	.000	1338.90	9748.00
.001815	430.	485.	520.	2	14	0	.00	512.00	10260.00

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SECNO	DEPTH	CWSEL	CRISWS	WSELK	EG	HV	HL	OLOSS	L-BANK ELEV
Q	QLOB	QCH	QROB	ALOB	ACH	AROB	VOL	TWA	R-BANK ELEV

TIME SLOPE	VLOB XLOBL	VCH XLCH	VROB XLOBR	XNL ITRIAL	XNCH IDC	XNR ICONT	WTN CORAR	ELMIN TOPWID	SSTA ENDST
*SECNO 30.360									
3470 ENCROACHMENT STATIONS=			9820.0	10280.0	TYPE=	1	TARGET=	460.000	
30.360	7.63	1348.83	1346.47	1348.23	1349.76	.94	1.27	.12	1341.20
23000.0	1377.0	19677.8	1945.3	263.1	2414.4	428.2	24520.0	4691.5	1342.80
7.18	5.23	8.15	4.54	.055	.040	.055	.000	1341.20	9820.00
.003484	500.	515.	535.	2	14	0	.00	460.00	10280.00

*SECNO 30.460									
3470 ENCROACHMENT STATIONS=			9814.0	10230.0	TYPE=	1	TARGET=	416.000	
30.460	9.27	1350.47	1347.90	1349.82	1351.44	.97	1.67	.01	1341.20
23000.0	13.0	21845.2	1141.8	9.0	2716.2	258.9	24554.9	4696.6	1343.10
7.20	1.44	8.04	4.41	.055	.040	.055	.000	1341.20	9814.00
.003227	475.	495.	540.	2	15	0	.00	416.00	10230.00

*SECNO 30.550									
3470 ENCROACHMENT STATIONS=			9714.0	10139.0	TYPE=	1	TARGET=	425.000	
30.550	8.67	1352.07	1348.49	1351.58	1352.79	.72	1.32	.03	1363.20
21000.0	.0	21000.0	.0	.0	3093.2	.0	24589.8	4701.2	1353.70
7.22	.00	6.79	.00	.000	.040	.000	.000	1343.40	9735.65
.002171	500.	500.	525.	2	11	0	.00	395.25	10130.90

\*SECNO 30.650

3301 HV CHANGED MORE THAN HVINS

3302 WARNING: CONVEYANCE CHANGE OUTSIDE OF ACCEPTABLE RANGE, KRATIO = .67

3470 ENCROACHMENT STATIONS=			9781.0	10116.0	TYPE=	1	TARGET=	335.000	
30.650	9.63	1353.33	1351.05	1353.06	1354.61	1.28	1.65	.17	1346.20
21000.0	6605.8	14394.2	.0	950.6	1453.3	.0	24623.3	4705.6	1354.60
7.24	6.95	9.90	.00	.055	.040	.000	.000	1343.70	9781.00
.004799	535.	530.	500.	2	15	0	.00	326.69	10107.69

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SECNO	DEPTH	CWSEL	CRISW	WSELK	EG	HV	HL	OLOSS	L-BANK ELEV
Q	QLOB	QCH	QROB	ALOB	ACH	AROB	VOL	TWA	R-BANK ELEV
TIME	VLOB	VCH	VROB	XNL	XNCH	XNR	WTN	ELMIN	SSTA
SLOPE	XLOBL	XLCH	XLOBR	ITRIAL	IDC	ICONT	CORAR	TOPWID	ENDST

\*SECNO 30.730

3470 ENCROACHMENT STATIONS=			9864.0	10180.0	TYPE=	1	TARGET=	316.000	
30.730	9.79	1354.99	1352.35	1354.84	1356.33	1.33	1.70	.02	1345.20
21000.0	352.7	18100.7	2546.6	84.2	1845.8	532.2	24646.8	4708.7	1345.60
7.25	4.19	9.81	4.78	.055	.040	.055	.000	1345.20	9864.00
.003456	445.	420.	370.	2	15	0	.00	316.00	10180.00

\*SECNO 30.820

3470 ENCROACHMENT STATIONS=			9901.0	10280.0	TYPE=	1	TARGET=	379.000	
30.820	11.74	1356.94	1353.69	1356.75	1357.80	.85	1.42	.05	1345.20
21000.0	549.2	18343.9	2106.9	134.7	2361.3	489.8	24676.5	4712.4	1352.00
7.27	4.08	7.77	4.30	.055	.040	.055	.000	1345.20	9901.06
.002512	500.	500.	370.	2	15	0	.00	378.94	10280.00

\*SECNO 30.920

3470 ENCROACHMENT STATIONS=			9854.0	10330.0	TYPE=	1	TARGET=	476.000	
30.920	12.19	1358.19	1354.87	1357.60	1358.92	.72	1.11	.01	1348.60
21000.0	279.8	17760.4	2959.8	88.4	2431.7	937.6	24714.6	4717.5	1353.70
7.29	3.16	7.30	3.16	.055	.040	.055	.000	1346.00	9854.00
.001884	510.	510.	530.	2	19	0	.00	476.00	10330.00

\*SECNO 31.010

3470 ENCROACHMENT STATIONS=			9727.0	10400.0	TYPE=	1	TARGET=	673.000	
31.010	9.70	1359.20	1356.31	1358.33	1360.04	.83	1.09	.03	1353.30
21000.0	100.6	18804.9	2094.5	37.1	2441.2	877.3	24755.6	4724.8	1356.60
7.31	2.71	7.70	2.39	.055	.040	.055	.000	1349.50	9727.00
.002477	485.	490.	620.	2	11	0	.00	673.00	10400.00

\*SECNO 31.110

3470 ENCROACHMENT STATIONS=			9872.0	10570.0	TYPE=	1	TARGET=	698.000	
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31.110	11.11	1360.51	1358.90	1359.58	1361.40	.89	1.34	.02	1355.20
21000.0	80.5	16694.9	4224.7	28.6	2003.6	1340.0	24793.7	4732.6	1357.90
7.33	2.81	8.33	3.15	.055	.040	.055	.000	1349.40	9872.00
.003029	480.	490.	500.	2	8	0	.00	698.00	10570.00

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SECNO	DEPTH	CWSEL	CRISW	WSELK	EG	HV	HL	OLOSS	L-BANK ELEV
Q	QLOB	QCH	QROB	ALOB	ACH	AROB	VOL	TWA	R-BANK ELEV
TIME	VLOB	VCH	VROB	XLN	XLNCH	XNR	WTN	ELMIN	SSTA
SLOPE	XLOBL	XLCH	XLOBR	ITRIAL	IDC	ICONT	CORAR	TOPWID	ENDST

\*SECNO 31.200

3470 ENCROACHMENT STATIONS=	9710.0	10390.0	TYPE=	1	TARGET=	680.000			
31.200	12.33	1362.23	1359.35	1361.29	1362.70	.47	1.26	.04	1354.90
21000.0	6363.7	9259.5	5376.8	1373.8	1351.2	1557.7	24838.2	4740.7	1356.60
7.36	4.63	6.85	3.45	.055	.040	.055	.000	1349.90	9710.00
.002075	460.	510.	525.	2	9	0	.00	680.00	10390.00

\*SECNO 31.290

3265 DIVIDED FLOW

3302 WARNING: CONVEYANCE CHANGE OUTSIDE OF ACCEPTABLE RANGE, KRATIO = .63

3470 ENCROACHMENT STATIONS=	9570.0	10300.0	TYPE=	1	TARGET=	730.000			
31.290	7.84	1363.34	1361.82	1362.52	1364.26	.91	1.43	.13	1362.80
21000.0	5092.1	12901.1	3006.8	828.1	1481.5	656.3	24876.4	4748.0	1359.90
7.37	6.15	8.71	4.58	.055	.040	.055	.000	1355.50	9570.00
.005244	425.	460.	490.	2	11	0	.00	692.79	10300.00

\*SECNO 31.390

3301 HV CHANGED MORE THAN HVINS

3302 WARNING: CONVEYANCE CHANGE OUTSIDE OF ACCEPTABLE RANGE, KRATIO = 1.54

3470 ENCROACHMENT STATIONS=	9550.0	10320.0	TYPE=	1	TARGET=	770.000			
31.390	10.89	1365.59	1362.76	1364.77	1365.99	.40	1.68	.05	1363.10
21000.0	5033.7	10567.4	5398.9	1255.1	1787.3	1342.4	24919.9	4756.6	1357.40
7.40	4.01	5.91	4.02	.055	.040	.055	.000	1354.70	9550.00
.002222	540.	510.	500.	2	8	0	.00	770.00	10320.00

\*SECNO 31.490

3470 ENCROACHMENT STATIONS=	9600.0	10300.0	TYPE=	1	TARGET=	700.000			
31.490	7.42	1366.92	1364.60	1366.34	1367.44	.52	1.42	.04	1359.50
21000.0	7804.3	13165.4	30.3	1755.3	2035.2	13.6	24971.7	4766.0	1363.80
7.43	4.45	6.47	2.23	.055	.040	.055	.000	1359.50	9600.00
.003011	575.	545.	520.	2	14	0	.00	700.00	10300.00

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SECNO	DEPTH	CWSEL	CRISW	WSELK	EG	HV	HL	OLOSS	L-BANK ELEV
Q	QLOB	QCH	QROB	ALOB	ACH	AROB	VOL	TWA	R-BANK ELEV
TIME	VLOB	VCH	VROB	XLN	XLNCH	XNR	WTN	ELMIN	SSTA
SLOPE	XLOBL	XLCH	XLOBR	ITRIAL	IDC	ICONT	CORAR	TOPWID	ENDST

\*SECNO 31.590

3470 ENCROACHMENT STATIONS=	9580.0	10176.0	TYPE=	1	TARGET=	596.000			
31.590	9.66	1368.36	1365.68	1367.77	1368.93	.57	1.47	.02	1364.20
21000.0	8089.6	12828.7	81.7	1740.1	1876.6	31.1	25015.2	4773.5	1363.20
7.45	4.65	6.84	2.63	.055	.040	.055	.000	1358.70	9580.00
.002796	505.	510.	520.	2	12	0	.00	596.00	10176.00

\*SECNO 31.670

3470 ENCROACHMENT STATIONS=	9570.0	10197.0	TYPE=	1	TARGET=	627.000			
31.670	12.34	1369.54	1366.46	1368.72	1370.01	.47	1.07	.01	1366.00
21000.0	5958.5	14925.2	116.3	1477.1	2482.3	44.4	25054.9	4779.9	1362.80
7.48	4.03	6.01	2.62	.055	.040	.055	.000	1357.20	9570.00
.002033	455.	450.	445.	2	10	0	.00	627.00	10197.00

\*SECNO 31.770

3470 ENCROACHMENT STATIONS=	9550.0	10120.0	TYPE=	1	TARGET=	570.000			
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31.770	14.47	1370.67	1367.92	1369.76	1371.25	.58	1.20	.03	1365.30
21000.0	9718.6	10993.8	287.6	1972.0	1566.3	80.6	25098.4	4786.7	1363.00
7.50	4.93	7.02	3.57	.055	.040	.055	.000	1356.20	9550.00
.002910	495.	500.	510.	2	10	0	.00	570.00	10120.00

\*SECNO 31.860

3470 ENCROACHMENT STATIONS=	9680.0	10262.0	TYPE=	1	TARGET=	582.000			
31.860	10.14	1372.14	1369.38	1371.26	1372.69	.55	1.44	.00	1366.70
21000.0	7002.5	13988.8	8.6	1424.5	2178.1	6.6	25140.7	4793.4	1365.30
7.52	4.92	6.42	1.31	.055	.040	.055	.000	1362.00	9680.00
.002781	520.	500.	490.	2	8	0	.00	582.00	10262.00

\*SECNO 31.960

3470 ENCROACHMENT STATIONS=	9730.0	10247.0	TYPE=	1	TARGET=	517.000			
31.960	8.99	1373.29	1370.12	1372.48	1373.82	.54	1.13	.00	1369.10
19000.0	2819.8	16033.4	146.7	862.5	2571.1	53.4	25181.6	4799.8	1364.30
7.55	3.27	6.24	2.75	.055	.040	.055	.000	1364.30	9730.00
.001817	495.	505.	515.	2	11	0	.00	517.00	10247.00

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SECNO	DEPTH	CWSEL	CRISW	WSELK	EG	HV	HL	OLOSS	L-BANK ELEV
Q	QLOB	QCH	QROB	ALOB	ACH	AROB	VOL	TWA	R-BANK ELEV
TIME	VLOB	VCH	VROB	XLN	XLNCH	XNR	WTN	ELMIN	SSTA
SLOPE	XLOBL	XLCH	XLOBR	ITRIAL	IDC	ICONT	CORAR	TOPWID	ENDST

\*SECNO 32.050

3470 ENCROACHMENT STATIONS=	9670.0	10098.0	TYPE=	1	TARGET=	428.000			
32.050	11.98	1374.18	1370.63	1373.53	1374.79	.62	.94	.02	1364.10
19000.0	4272.6	14723.3	4.1	1045.5	2162.7	4.0	25220.2	4805.2	1370.00
7.57	4.09	6.81	1.04	.055	.040	.055	.000	1362.20	9670.00
.001942	495.	505.	520.	2	11	0	.00	428.00	10098.00

\*SECNO 32.150

3302 WARNING: CONVEYANCE CHANGE OUTSIDE OF ACCEPTABLE RANGE, KRATIO = .66

3470 ENCROACHMENT STATIONS=	9560.0	10101.0	TYPE=	1	TARGET=	541.000			
32.150	9.14	1375.34	1373.92	1374.89	1376.27	.93	1.38	.09	1373.80
19000.0	3469.6	15319.4	211.0	830.7	1834.1	49.6	25253.1	4810.6	1366.20
7.59	4.18	8.35	4.25	.055	.040	.055	.000	1366.20	9560.00
.004504	460.	495.	495.	2	14	0	.00	541.00	10101.00

\*SECNO 32.240

3470 ENCROACHMENT STATIONS=	9500.0	10070.0	TYPE=	1	TARGET=	570.000			
32.240	10.47	1377.37	1375.36	1376.72	1378.02	.65	1.72	.03	1374.00
19000.0	4728.6	14271.4	.0	1119.6	2023.4	.0	25283.4	4816.2	1387.50
7.61	4.22	7.05	.00	.055	.040	.000	.000	1366.90	9500.00
.003182	400.	475.	490.	2	10	0	.00	560.64	10060.64

\*SECNO 32.340

3470 ENCROACHMENT STATIONS=	9530.0	10060.0	TYPE=	1	TARGET=	530.000			
32.340	10.98	1379.18	1376.98	1378.49	1379.81	.64	1.79	.00	1375.90
19000.0	9725.9	9274.1	.0	1472.4	1499.4	.0	25319.8	4822.6	1380.60
7.63	6.61	6.19	.00	.045	.045	.000	.000	1368.20	9530.00
.003737	490.	540.	550.	2	10	0	.00	522.23	10052.23

\*SECNO 32.430

3302 WARNING: CONVEYANCE CHANGE OUTSIDE OF ACCEPTABLE RANGE, KRATIO = 1.68

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SECNO	DEPTH	CWSEL	CRISW	WSELK	EG	HV	HL	OLOSS	L-BANK ELEV
Q	QLOB	QCH	QROB	ALOB	ACH	AROB	VOL	TWA	R-BANK ELEV
TIME	VLOB	VCH	VROB	XLN	XLNCH	XNR	WTN	ELMIN	SSTA
SLOPE	XLOBL	XLCH	XLOBR	ITRIAL	IDC	ICONT	CORAR	TOPWID	ENDST

3470 ENCROACHMENT STATIONS=	9600.0	10113.0	TYPE=	1	TARGET=	513.000			
32.430	16.73	1380.53	1376.34	1379.70	1380.89	.37	1.05	.03	1375.50
19000.0	11401.7	7598.3	.0	2196.8	1742.1	.0	25359.9	4828.5	1383.10
7.66	5.19	4.36	.00	.045	.045	.000	.000	1363.80	9600.00
.001321	545.	460.	400.	2	8	0	.00	502.34	10102.34

\*SECNO 32.520

3265 DIVIDED FLOW

3470 ENCROACHMENT STATIONS=	9760.0	10273.0	TYPE=	1	TARGET=	513.000			
32.520	9.27	1381.27	1377.75	1380.32	1381.79	.52	.85	.05	1372.40
19000.0	1248.2	12491.1	5260.7	223.9	2004.3	1135.3	25401.5	4834.1	1383.60
7.68	5.58	6.23	4.63	.045	.045	.050	.000	1372.00	9760.00
.002313	550.	480.	440.	2	22	0	.00	485.89	10273.00

\*SECNO 32.580

3265 DIVIDED FLOW

3470 ENCROACHMENT STATIONS=	9841.0	10412.0	TYPE=	1	TARGET=	571.000			
32.580	11.43	1381.93	1377.27	1381.12	1382.52	.59	.71	.02	1372.30
19000.0	370.2	13755.1	4874.7	89.6	2164.8	860.1	25425.1	4837.4	1381.30
7.70	4.13	6.35	5.67	.045	.045	.050	.000	1370.50	9841.00
.002121	360.	325.	295.	2	19	0	.00	449.33	10412.00

\*SECNO 32.640

3265 DIVIDED FLOW

3470 ENCROACHMENT STATIONS=	9873.0	10501.0	TYPE=	1	TARGET=	628.000			
32.640	16.39	1382.59	1377.09	1382.02	1383.09	.50	.56	.01	1389.20
19000.0	.0	14108.0	4892.0	.0	2493.1	870.4	25446.4	4840.2	1382.20
7.71	.00	5.66	5.62	.000	.045	.050	.000	1366.20	9882.91
.001806	335.	310.	220.	2	11	0	.00	399.90	10501.00

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SECNO	DEPTH	CWSEL	CRWS	WSELK	EG	HV	HL	OLOSS	L-BANK ELEV
Q	QLOB	QCH	QROB	ALOB	ACH	AROB	VOL	TWA	R-BANK ELEV
TIME	VLOB	VCH	VROB	XNL	XNCH	XNR	WTN	ELMIN	SSTA
SLOPE	XLOBL	XLCH	XLOBR	ITRIAL	IDC	ICONT	CORAR	TOPWID	ENDST

\*SECNO 32.720

3265 DIVIDED FLOW

3301 HV CHANGED MORE THAN HVINS

3470 ENCROACHMENT STATIONS=	9617.0	10453.0	TYPE=	1	TARGET=	836.000			
32.720	19.23	1383.03	1378.18	1382.59	1384.03	1.00	.79	.15	1396.50
19000.0	285.2	13534.7	5180.1	127.9	1572.9	789.9	25470.3	4843.2	1406.80
7.72	2.23	8.60	6.56	.045	.045	.050	.000	1363.80	9617.00
.002720	480.	420.	190.	2	12	0	.00	311.33	10453.00

\*SECNO 32.790

3265 DIVIDED FLOW

3470 ENCROACHMENT STATIONS=	9700.0	10320.0	TYPE=	1	TARGET=	620.000			
32.790	16.85	1384.05	1378.94	1383.75	1385.21	1.17	1.13	.05	1387.90
19000.0	172.0	18061.3	766.7	76.2	2039.0	216.7	25491.8	4846.0	1392.60
7.74	2.26	8.86	3.54	.045	.045	.050	.000	1367.20	9700.00
.003199	400.	380.	410.	2	14	0	.00	319.82	10320.00

\*SECNO 32.860

3265 DIVIDED FLOW

3302 WARNING: CONVEYANCE CHANGE OUTSIDE OF ACCEPTABLE RANGE, KRATIO = .59

3470 ENCROACHMENT STATIONS=	9807.0	10332.0	TYPE=	1	TARGET=	525.000			
32.860	10.74	1385.64	1384.87	1385.51	1387.24	1.60	1.90	.13	1380.40
19000.0	3793.5	14657.9	548.7	463.5	1362.8	147.4	25510.8	4849.5	1386.50
7.75	8.18	10.76	3.72	.045	.045	.050	.000	1374.90	9807.00
.009131	280.	380.	580.	3	14	0	.00	444.45	10332.00

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SECNO	DEPTH	CWSEL	CRWS	WSELK	EG	HV	HL	OLOSS	L-BANK ELEV
Q	QLOB	QCH	QROB	ALOB	ACH	AROB	VOL	TWA	R-BANK ELEV
TIME	VLOB	VCH	VROB	XNL	XNCH	XNR	WTN	ELMIN	SSTA

SLOPE	XLOBL	XLCH	XLOBR	ITRIAL	IDC	ICONT	CORAR	TOPWID	ENDST
*SECNO 32.920									
3470 ENCROACHMENT STATIONS= 9876.0 10180.0 TYPE= 1 TARGET= 304.000									
32.920	7.36	1388.36	1387.46	1388.40	1390.19	1.83	2.88	.07	1382.70
19000.0	260.0	17857.6	882.4	42.3	1613.7	134.3	25524.2	4852.3	1383.10
7.75	6.14	11.07	6.57	.045	.045	.050	.000	1381.00	9876.07
.009445	290.	310.	370.	2	14	0	.00	303.93	10180.00

\*SECNO 32.979  
3301 HV CHANGED MORE THAN HVINS

3470 ENCROACHMENT STATIONS= 9857.0 10099.0 TYPE= 1 TARGET= 242.000									
32.979	11.43	1391.13	1390.50	1391.12	1393.74	2.61	3.31	.23	1384.70
19000.0	5214.2	13785.8	.0	438.4	1033.8	.0	25536.0	4854.2	1394.40
7.76	11.89	13.33	.00	.045	.045	.000	.000	1379.70	9857.19
.011798	310.	315.	330.	2	14	0	.00	219.01	10076.20

\*SECNO 32.984  
BTCARD, BRIDGE STENCL= 9824.00 STENCR= 10082.00  
3370 NORMAL BRIDGE, NRD= 18 MIN ELTRD= 1432.00 MAX ELLC= 1427.30

3470 ENCROACHMENT STATIONS= 9824.0 10082.0 TYPE= 1 TARGET= 258.000									
***** STATE ROUTE 74 *****									
***** LOW CHORD = 1427.0 *****									
32.984	13.04	1391.44	1391.05	1391.39	1394.12	2.68	.37	.02	1386.60
19000.0	8294.2	5039.5	5666.3	660.6	382.8	406.0	25537.0	4854.3	1380.20
7.76	12.56	13.16	13.96	.045	.045	.050	.000	1378.40	9824.00
.014521	28.	28.	28.	15	18	0	-186.98	258.00	10082.00

\*SECNO 32.993  
3301 HV CHANGED MORE THAN HVINS

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SECNO	DEPTH	CWSEL	CRISW	WSELK	EG	HV	HL	OLOSS	L-BANK ELEV
Q	QLOB	QCH	QROB	ALOB	ACH	AROB	VOL	TWA	R-BANK ELEV
TIME	VLOB	VCH	VROB	XNL	XNCH	XNR	WTN	ELMIN	SSTA
SLOPE	XLOBL	XLCH	XLOBR	ITRIAL	IDC	ICONT	CORAR	TOPWID	ENDST

3370 NORMAL BRIDGE, NRD= 18 MIN ELTRD= 1432.00 MAX ELLC= 1427.30

3470 ENCROACHMENT STATIONS= 9816.0 10093.0 TYPE= 1 TARGET= 277.000									
32.993	14.57	1392.97	1391.03	1392.97	1394.68	1.70	.46	.10	1386.60
19000.0	8974.1	4468.6	5557.2	863.4	442.4	509.7	25538.7	4854.6	1380.20
7.76	10.39	10.10	10.90	.045	.045	.050	.000	1378.40	9817.14
.007506	45.	45.	45.	4	18	0	-232.42	275.12	10092.26

\*SECNO 32.998

3470 ENCROACHMENT STATIONS= 9842.0 10109.0 TYPE= 1 TARGET= 267.000									
32.998	11.72	1393.12	1391.65	1393.16	1394.92	1.80	.21	.03	1389.00
19000.0	77.5	18922.5	.0	17.1	1753.0	.0	25539.8	4854.8	1393.10
7.76	4.53	10.79	.00	.045	.045	.000	.000	1381.40	9842.69
.008296	27.	27.	27.	2	19	0	.00	265.37	10108.06

\*SECNO 33.060

3301 HV CHANGED MORE THAN HVINS

3302 WARNING: CONVEYANCE CHANGE OUTSIDE OF ACCEPTABLE RANGE, KRATIO = 2.16

3470 ENCROACHMENT STATIONS= 9729.0 10090.0 TYPE= 1 TARGET= 361.000									
33.060	12.41	1395.51	1390.31	1395.52	1396.07	.56	1.02	.12	1386.00
19000.0	10511.2	8487.7	1.2	1585.3	1648.5	1.5	25557.3	4857.0	1394.70
7.78	6.63	5.15	.75	.045	.050	.045	.000	1383.10	9729.12
.001785	275.	320.	330.	2	14	0	.00	357.68	10086.79

\*SECNO 33.120

3302 WARNING: CONVEYANCE CHANGE OUTSIDE OF ACCEPTABLE RANGE, KRATIO = 1.60

3470 ENCROACHMENT STATIONS= 9600.0 10090.0 TYPE= 1 TARGET= 490.000  
 33.120 11.98 1396.18 1389.59 1396.19 1396.41 .23 .31 .03 1386.90  
 19000.0 8654.9 10338.7 6.4 2182.5 2790.6 7.9 25584.9 4859.8 1388.00  
 7.80 3.97 3.70 .81 .045 .050 .045 .000 1384.20 9600.00  
 .000697 260. 320. 330. 2 18 0 .00 490.00 10090.00

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SECNO	DEPTH	CWSEL	CRISW	WSELK	EG	HV	HL	OLOSS	L-BANK ELEV
Q	QLOB	QCH	QROB	ALOB	ACH	AROB	VOL	TWA	R-BANK ELEV
TIME	VLOB	VCH	VROB	XLN	XNCH	XNR	WTN	ELMIN	SSTA
SLOPE	XLOBL	XLCH	XLOBR	ITRIAL	IDC	ICONT	CORAR	TOPWID	ENDST

\*SECNO 33.190

3302 WARNING: CONVEYANCE CHANGE OUTSIDE OF ACCEPTABLE RANGE, KRATIO = .70

3470 ENCROACHMENT STATIONS= 9440.0 10029.0 TYPE= 1 TARGET= 589.000  
 33.190 10.63 1396.43 1392.36 1396.38 1396.74 .31 .31 .02 1389.50  
 19000.0 10580.9 8419.1 .0 2434.9 1824.2 .0 25618.9 4863.7 1400.00  
 7.82 4.35 4.62 .00 .045 .050 .000 .000 1385.80 9440.00  
 .001424 290. 350. 350. 2 11 0 .00 589.97 10029.97

\*SECNO 33.250

3302 WARNING: CONVEYANCE CHANGE OUTSIDE OF ACCEPTABLE RANGE, KRATIO = .66

3470 ENCROACHMENT STATIONS= 9600.0 10099.0 TYPE= 1 TARGET= 499.000  
 33.250 11.68 1396.88 1394.16 1396.43 1397.47 .59 .65 .08 1391.20  
 19000.0 8238.7 10761.3 .0 1445.8 1651.2 .0 25645.2 4867.6 1398.00  
 7.83 5.70 6.52 .00 .045 .050 .000 .000 1385.20 9600.00  
 .003278 310. 315. 320. 2 9 0 .00 489.45 10089.45

\*SECNO 33.290

3301 HV CHANGED MORE THAN HVINS

3302 WARNING: CONVEYANCE CHANGE OUTSIDE OF ACCEPTABLE RANGE, KRATIO = .69

3470 ENCROACHMENT STATIONS= 9740.0 10059.0 TYPE= 1 TARGET= 319.000  
 33.290 17.17 1397.47 1395.55 1397.73 1398.71 1.25 1.04 .20 1393.20  
 19000.0 6541.3 12458.7 .0 767.7 1357.4 .0 25658.8 4869.6 1398.20  
 7.84 8.52 9.18 .00 .045 .050 .000 .000 1380.30 9740.00  
 .006845 215. 235. 250. 2 15 0 .00 315.62 10055.62

\*SECNO 33.300

3301 HV CHANGED MORE THAN HVINS

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SECNO	DEPTH	CWSEL	CRISW	WSELK	EG	HV	HL	OLOSS	L-BANK ELEV
Q	QLOB	QCH	QROB	ALOB	ACH	AROB	VOL	TWA	R-BANK ELEV
TIME	VLOB	VCH	VROB	XLN	XNCH	XNR	WTN	ELMIN	SSTA
SLOPE	XLOBL	XLCH	XLOBR	ITRIAL	IDC	ICONT	CORAR	TOPWID	ENDST

3302 WARNING: CONVEYANCE CHANGE OUTSIDE OF ACCEPTABLE RANGE, KRATIO = 1.97

3470 ENCROACHMENT STATIONS= 9786.0 10091.0 TYPE= 1 TARGET= 305.000  
 33.300 17.92 1398.32 1391.29 1398.61 1398.93 .61 .16 .06 1396.20  
 19000.0 116.0 18884.0 .0 58.0 3013.7 .0 25661.8 4870.0 1399.70  
 7.84 2.00 6.27 .00 .045 .050 .000 .000 1380.40 9786.00  
 .001769 50. 50. 50. 2 14 0 .00 297.60 10083.60

\*SECNO 33.360

3265 DIVIDED FLOW

3470 ENCROACHMENT STATIONS= 9848.0 10327.0 TYPE= 1 TARGET= 479.000  
 33.360 16.96 1398.86 1393.30 1399.10 1399.55 .69 .60 .03 1418.40  
 19000.0 .0 14646.2 4353.8 .0 2047.5 924.0 25682.9 4872.3 1402.20  
 7.86 .00 7.15 4.71 .000 .050 .045 .000 1381.90 9910.05  
 .002171 230. 305. 305. 2 14 0 .00 358.04 10327.00

\*SECNO 33.410

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3470 ENCROACHMENT STATIONS= 9943.0 10367.0 TYPE= 1 TARGET= 424.000
33.410 12.64 1399.54 1395.07 1399.74 1400.33 .79 .75 .03 1408.30
19000.0 .0 19000.0 .0 .0 2665.6 .0 25701.3 4874.5 1406.80
7.87 .00 7.13 .00 .000 .050 .000 .000 1386.90 9966.91
.003352 250. 275. 335. 2 11 0 .00 313.41 10280.32
    
```

\*SECNO 33.460

3301 HV CHANGED MORE THAN HVINS

```

3470 ENCROACHMENT STATIONS= 9880.0 10230.0 TYPE= 1 TARGET= 350.000
33.460 18.73 1400.63 1389.02 1400.77 1400.75 .13 .35 .07 1405.40
9000.0 .0 8901.4 98.6 .0 3110.0 92.6 25719.9 4876.6 1397.00
7.89 .00 2.86 1.07 .000 .050 .045 .000 1381.90 9898.87
.000394 250. 275. 355. 2 11 0 .00 331.13 10230.00
    
```

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SECNO	DEPTH	CWSEL	CRWS	WSELK	EG	HV	HL	OLOSS	L-BANK ELEV
Q	QLOB	QCH	QROB	ALOB	ACH	AROB	VOL	TWA	R-BANK ELEV
TIME	VLOB	VCH	VROB	XNL	XNCH	XNR	WTN	ELMIN	SSTA
SLOPE	XLOBL	XLCH	XLOBR	ITRIAL	IDC	ICONT	CORAR	TOPWID	ENDST

\*SECNO 33.540

```

3470 ENCROACHMENT STATIONS= 9851.0 10230.0 TYPE= 1 TARGET= 379.000
33.540 16.39 1400.79 1391.71 1400.93 1400.97 .17 .20 .01 1406.10
9000.0 .0 9000.0 .0 .0 2681.6 .0 25747.0 4879.4 1410.40
7.93 .00 3.36 .00 .000 .050 .000 .000 1384.40 9881.83
.000666 390. 400. 410. 2 18 0 .00 290.52 10172.35
    
```

\*SECNO 33.630

```

3470 ENCROACHMENT STATIONS= 9856.0 10141.0 TYPE= 1 TARGET= 285.000
33.630 17.16 1401.16 1393.78 1401.28 1401.48 .32 .47 .04 1406.10
9000.0 .0 9000.0 .0 .0 1977.6 .0 25774.2 4882.5 1404.50
7.96 .00 4.55 .00 .000 .050 .000 .000 1384.00 9890.60
.001330 525. 510. 475. 2 14 0 .00 226.57 10117.17
    
```

\*SECNO 33.730

3265 DIVIDED FLOW

3302 WARNING: CONVEYANCE CHANGE OUTSIDE OF ACCEPTABLE RANGE, KRATIO = .64

```

3470 ENCROACHMENT STATIONS= 9803.0 10110.0 TYPE= 1 TARGET= 307.000
33.730 11.43 1401.93 1398.92 1402.02 1402.53 .60 .97 .08 1409.00
9000.0 1213.3 7666.7 120.1 268.5 1179.5 31.9 25793.7 4885.1 1397.00
7.98 4.52 6.50 3.76 .045 .050 .045 .000 1390.50 9803.00
.003220 500. 490. 480. 2 11 0 .00 238.71 10110.00
    
```

\*SECNO 33.820

3265 DIVIDED FLOW

3302 WARNING: CONVEYANCE CHANGE OUTSIDE OF ACCEPTABLE RANGE, KRATIO = 1.47

```

3470 ENCROACHMENT STATIONS= 9708.0 10069.0 TYPE= 1 TARGET= 361.000
33.820 15.73 1403.13 1395.31 1403.11 1403.60 .47 1.06 .01 1417.10
9000.0 8.6 8991.4 .0 10.0 1635.3 .0 25811.6 4887.4 1405.90
8.00 .86 5.50 .00 .045 .050 .000 .000 1387.40 9708.00
.001494 500. 500. 500. 2 19 0 .00 168.67 10061.27
    
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THIS RUN EXECUTED 22MAR11 10:59:28

\*\*\*\*\*  
HEC-2 WATER SURFACE PROFILES

Version 4.6.2; May 1991  
\*\*\*\*\*

NOTE- ASTERISK (\*) AT LEFT OF CROSS-SECTION NUMBER INDICATES MESSAGE IN SUMMARY OF ERRORS LIST

EAR EVENT EXISTING CO

SUMMARY PRINTOUT

TWA	SECNO	Q	CWSEL	DEPTH	EG	CRWS	VCH	10*KS	XLCH	SSTA	TOPWID	ENDST
.00	.160	50900.00	916.56	8.26	916.97	914.69	7.34	30.27	.00	8341.80	4294.83	15428.20
.00	.160	50900.00	917.25	8.95	917.83	915.29	7.89	30.13	.00	9300.00	2253.86	11600.00
56.84	.250	50900.00	918.11	7.21	918.55	916.99	8.37	33.39	495.00	8257.13	5866.30	15619.22
25.43	.250	50900.00	918.80	7.90	919.45	917.31	9.06	34.88	495.00	9250.00	2282.18	11600.00
134.71	.350	50900.00	919.61	8.21	919.98	918.37	7.97	26.17	485.00	7635.16	8121.07	15794.62
52.22	.350	50900.00	920.37	8.97	920.93	918.80	8.53	26.74	485.00	9130.00	2529.57	11690.00
228.46	.440	50900.00	920.88	8.08	921.15	919.21	5.53	19.66	505.00	7488.57	8028.40	15768.64
82.31	.440	50900.00	921.76	8.96	922.19	919.76	6.53	22.34	505.00	8970.00	2637.86	11640.00
325.79	.540	50900.00	921.96	8.26	922.29	920.74	7.45	24.08	505.00	6959.29	8732.60	15871.39
112.47	.540	50900.00	922.89	9.19	923.34	921.14	7.66	22.17	505.00	8920.00	2525.98	11540.00
423.36	.630	50900.00	923.29	7.59	923.61	922.39	7.69	28.19	505.00	7182.83	8199.52	15492.44
140.92	.630	50900.00	924.13	8.43	924.64	922.61	8.31	28.77	505.00	8970.00	2379.27	11440.00
520.60	.730	50900.00	924.67	7.77	924.95	922.98	7.26	25.27	500.00	6254.15	8818.85	15161.71
167.32	.730	50900.00	925.50	8.60	925.87	922.99	7.06	20.87	500.00	8980.00	2229.33	11280.00
625.02	.830	50900.00	925.91	8.61	926.14	924.41	7.29	22.79	495.00	4842.36	9559.34	14433.17
192.16	.830	50900.00	926.55	9.25	927.02	924.57	8.08	24.79	495.00	8983.00	2141.69	11150.00
714.87	.920	50900.00	926.85	7.55	927.16	925.68	6.37	22.29	440.00	5271.86	8129.20	13964.74
212.97	.920	50900.00	927.58	8.28	928.17	925.73	7.33	25.38	440.00	9100.00	1962.40	11130.00
775.71	1.010	50900.00	927.79	6.59	928.20	926.20	6.41	23.53	440.00	9192.46	3917.41	13197.17
232.55	1.010	50900.00	928.67	7.47	929.15	926.42	6.42	19.50	440.00	9300.00	1914.39	11250.00
820.37	1.100	50900.00	928.81	9.31	929.13	926.40	5.38	15.62	490.00	8913.49	4213.90	13308.20
252.71	1.100	50900.00	929.57	10.07	930.08	927.00	6.30	18.28	490.00	9450.00	1707.79	11220.00

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TWA	SECNO	Q	CWSEL	DEPTH	EG	CRWS	VCH	10*KS	XLCH	SSTA	TOPWID	ENDST
873.80	1.170	50900.00	929.80	6.20	930.23	928.62	6.80	26.58	540.00	8149.64	4764.36	12948.76
272.85	1.170	50900.00	930.62	7.02	931.37	928.91	7.78	29.12	540.00	9400.00	1594.13	11020.00
920.84	1.250	50900.00	931.02	6.62	931.89	930.54	8.96	37.81	485.00	8456.84	3678.81	12152.72
289.97	1.250	50900.00	931.89	7.49	933.02	930.68	9.29	34.58	485.00	9200.00	1488.69	10700.00
967.36	1.330	50900.00	932.95	7.45	933.43	932.04	7.28	25.06	495.00	6424.93	4579.95	11363.67
307.41	1.330	50900.00	933.78	8.28	934.57	932.28	8.28	27.55	495.00	8853.00	1617.00	10470.00
1010.75	1.400	50900.00	934.16	7.06	935.11	934.00	9.53	46.63	475.00	6178.61	3913.30	10865.99
324.64	1.400	50900.00	935.08	7.98	936.05	934.15	9.08	35.20	475.00	8550.00	1755.32	10306.00
* 1052.82	1.480	50900.00	935.99	9.29	936.37	934.56	5.88	15.22	505.00	6274.27	3962.32	10355.62
* 344.45	1.480	50900.00	936.68	9.98	937.21	934.51	6.42	15.93	505.00	8370.00	1910.00	10280.00

Effective Model Output  
AGUAFRIA.OUT

+	1.560	50900.00	936.55	10.45	936.78	932.42	4.68	5.74	495.00	6487.80	3645.60	10166.90
1087.43	1.560	50900.00	937.34	11.24	937.68	932.38	5.26	6.56	495.00	8330.00	1838.53	10168.53
* 362.54	1.640	50900.00	936.82	8.92	937.09	932.62	4.53	6.82	510.00	6727.81	3658.96	10424.44
1122.12	1.640	50900.00	937.69	9.79	937.99	932.61	4.58	6.10	510.00	8360.00	1952.00	10312.00
381.71	1.710	50900.00	937.17	8.97	937.45	933.72	4.68	8.59	495.00	6281.60	4024.60	10338.71
1158.33	1.710	50900.00	937.99	9.79	938.35	933.67	4.94	8.32	495.00	8350.00	1935.00	10285.00
401.49	1.790	50900.00	937.57	8.37	937.99	934.66	5.50	13.71	500.00	6226.12	4010.49	10305.46
1190.06	1.790	50900.00	938.42	9.22	938.82	934.67	5.17	10.32	500.00	8260.00	1993.00	10253.00
420.17	1.870	50900.00	938.21	7.41	938.76	936.02	6.28	19.82	475.00	6224.13	3779.28	10051.00
1215.96	1.870	50900.00	938.90	8.10	939.44	935.96	5.99	15.63	475.00	8190.00	1861.00	10051.00
436.85	1.940	50900.00	939.25	6.95	939.67	937.28	5.56	17.49	520.00	6252.38	3759.83	10058.70
1242.87	1.940	50900.00	939.76	7.46	940.27	937.11	5.78	16.89	520.00	8210.00	1849.14	10059.14
454.96	2.020	50900.00	940.05	7.35	940.44	938.57	5.64	19.44	470.00	6530.23	3496.83	10070.43
1268.75	2.020	50900.00	940.57	7.87	941.24	938.68	6.75	24.58	470.00	8410.00	1661.18	10071.18
471.39	2.100	50900.00	940.84	6.54	941.37	939.63	6.51	25.79	440.00	6926.31	3200.74	10158.57
1294.67	2.100	50900.00	941.60	7.30	942.31	939.60	6.93	24.42	440.00	8640.00	1519.46	10159.46
486.01	2.180	50900.00	941.75	7.35	942.25	940.48	6.41	21.70	400.00	7350.13	3048.62	10398.75
1317.74	2.180	50900.00	942.54	8.14	943.18	940.26	6.72	20.13	400.00	8920.00	1479.69	10399.69
498.64	2.250	50900.00	942.68	7.68	943.35	941.73	7.75	28.60	490.00	7655.51	2702.61	10358.12
1339.35	2.250	50900.00	943.43	8.43	944.33	941.77	8.30	28.34	490.00	9000.00	1358.98	10358.98
511.56	2.330	50900.00	943.98	7.78	944.45	942.42	6.46	20.50	490.00	7725.70	2601.73	10327.43
1364.32	2.330	50900.00	944.81	8.61	945.50	942.54	7.24	21.84	490.00	8980.00	1349.19	10329.19
525.21	2.410	50900.00	944.94	7.54	945.48	943.71	6.90	24.98	500.00	8290.50	2513.02	10803.51
1388.05	2.410	50900.00	945.88	8.48	946.52	943.85	7.05	21.37	500.00	9180.00	1610.00	10790.00
540.25												

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TWA	SECNO	Q	CWSEL	DEPTH	EG	CRWS	VCH	10*KS	XLCH	SSTA	TOPWID	ENDST
1414.72	2.510	50900.00	946.07	7.37	946.56	944.16	6.07	19.13	495.00	8616.18	2202.47	10818.65
557.57	2.510	50900.00	946.89	8.19	947.45	944.19	6.15	16.53	495.00	9320.00	1503.71	10823.71
1444.01	2.600	50900.00	947.12	7.52	947.59	945.38	5.80	20.54	505.00	8593.04	2550.49	11143.53
576.51	2.600	50900.00	947.83	8.23	948.26	945.24	5.48	15.54	505.00	9300.00	1844.33	11144.33
1478.43	2.700	50900.00	948.18	7.78	948.51	946.05	4.78	15.01	500.00	8550.55	2678.92	11229.47
598.81	2.700	50900.00	948.64	8.24	948.98	945.99	4.71	12.89	500.00	9180.00	2050.02	11230.02
1506.28	2.800	50900.00	948.88	6.88	949.19	946.24	4.55	12.56	500.00	8957.87	2250.71	11208.58
622.28	2.800	50900.00	949.27	7.27	949.57	946.27	4.41	10.74	500.00	9160.00	2049.26	11209.26
1530.99	2.890	50900.00	949.51	6.71	949.83	946.83	4.49	13.65	485.00	9059.70	2187.95	11247.66
645.09	2.890	50900.00	949.82	7.02	950.15	946.99	4.58	13.06	485.00	9200.00	2048.14	11248.14
1558.07	2.990	50900.00	950.15	7.85	950.46	947.07	4.53	11.47	510.00	8808.48	2437.41	11245.90

Effective Model Output  
AGUAFRIA.OUT

668.34	2.990	50900.00	950.43	8.13	950.75	947.08	4.50	10.56	510.00	9323.00	1923.36	11246.36
	3.080	50900.00	950.69	8.19	950.99	947.04	4.40	9.47	500.00	8930.05	2309.63	11262.86
1585.86	3.080	50900.00	950.94	8.44	951.22	947.03	4.24	8.37	500.00	9395.80	1867.47	11263.28
690.10												
	3.180	50900.00	951.18	7.78	951.62	948.33	5.33	15.00	500.00	8874.25	1897.77	11199.32
1611.47	3.180	50900.00	951.37	7.97	951.78	948.32	5.16	13.55	500.00	9549.34	1638.41	11199.60
710.22												
	3.270	50900.00	951.95	7.45	952.52	949.35	6.06	19.26	510.00	9518.41	1601.76	11120.17
1632.29	3.270	50900.00	952.07	7.57	952.62	949.35	5.95	18.12	510.00	9692.00	1428.31	11120.31
728.17												
	3.370	50900.00	952.88	9.48	953.46	949.91	6.20	17.54	510.00	9253.56	1698.69	10952.25
1652.16	3.370	50900.00	952.94	9.54	953.58	949.97	6.41	18.57	510.00	9750.00	1202.39	10952.39
743.57												
*	3.400	50900.00	952.80	7.70	954.74	952.80	11.19	106.75	175.00	9579.10	1290.49	10914.47
1658.16	3.400	50900.00	952.70	7.60	954.75	952.70	11.49	116.23	175.00	9730.00	1138.34	10914.34
748.27												
*	3.430	50900.00	954.78	8.78	955.69	952.81	7.67	30.11	165.00	9665.32	1191.45	10856.76
1662.86	3.430	50900.00	954.83	8.83	955.72	952.81	7.63	29.49	165.00	9700.00	1156.85	10856.85
752.62												
	3.470	50900.00	955.39	9.29	956.25	953.07	7.50	25.65	200.00	9241.47	1555.91	10797.38
1669.17	3.470	50900.00	955.40	9.30	956.28	953.07	7.55	25.94	200.00	9650.00	1147.39	10797.39
757.91												
	3.550	50900.00	956.41	8.41	957.41	954.76	8.30	31.47	395.00	9117.53	1555.33	10672.86
1683.27	3.550	50900.00	956.43	8.43	957.47	954.74	8.40	32.15	395.00	9540.00	1132.88	10672.88
768.25												
	3.640	50900.00	957.84	9.04	959.23	956.14	9.46	40.49	480.00	9765.06	818.99	10584.04
1696.36	3.640	50900.00	957.90	9.10	959.27	956.14	9.38	39.34	480.00	9764.82	819.30	10584.12
779.00												
	3.690	50900.00	958.97	7.97	960.36	957.84	9.46	54.71	240.00	9531.57	1028.78	10560.35
1701.45	3.690	50900.00	958.99	7.99	960.37	957.84	9.41	53.93	240.00	9530.26	1030.15	10560.41
784.10												
*	3.729	50900.00	960.52	8.32	960.94	956.09	5.24	9.19	265.00	9422.37	1173.95	10596.32
1708.15	3.729	50900.00	960.52	8.32	960.95	956.10	5.23	9.16	265.00	9422.37	1173.96	10596.33
790.80												

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TWA	SECNO	Q	CWSEL	DEPTH	EG	CRISWS	VCH	10*KS	XLCH	SSTA	TOPWID	ENDST
	3.734	50900.00	960.50	8.20	961.02	956.40	5.76	14.61	25.00	9407.85	1184.90	10592.76
1708.82	3.734	50900.00	960.51	8.21	961.02	956.40	5.75	14.56	25.00	9407.84	1184.92	10592.77
791.48												
	3.747	50900.00	960.62	8.32	961.12	956.40	5.67	13.97	70.00	9407.74	1185.13	10592.87
1710.73	3.747	50900.00	960.63	8.33	961.13	956.40	5.67	13.92	70.00	9407.73	1185.15	10592.88
793.38												
	3.757	50900.00	960.73	8.63	961.19	956.27	5.44	9.62	50.00	9436.78	1110.62	10547.40
1712.04	3.757	50900.00	960.74	8.64	961.20	956.27	5.43	9.59	50.00	9436.77	1110.65	10547.41
794.70												
*	3.767	50900.00	960.65	7.75	961.42	957.45	7.05	27.86	50.00	9441.23	1053.57	10559.12
1713.29	3.767	50900.00	960.66	7.76	961.43	957.45	7.05	27.77	50.00	9441.21	1053.60	10559.14
795.94												
	3.770	50900.00	960.72	7.82	961.48	957.45	6.99	27.07	20.00	9441.07	1053.87	10559.26
1713.77	3.770	50900.00	960.73	7.83	961.49	957.45	6.98	26.99	20.00	9441.05	1053.91	10559.28
796.43												
*	3.780	52000.00	961.01	8.11	961.55	957.16	5.94	9.22	35.00	9453.58	1109.91	10563.49
1714.64	3.780	52000.00	961.01	8.11	961.56	957.16	5.94	9.19	35.00	9453.57	1109.93	10563.50
797.30												

Effective Model Output  
AGUAFRIA.OUT

1717.84	3.800	52000.00	961.12	8.02	961.67	957.35	5.96	9.48	125.00	9450.26	1123.21	10573.47
800.50	3.800	52000.00	961.13	8.03	961.68	957.35	5.96	9.45	125.00	9450.25	1123.24	10573.49
1719.82	3.810	52000.00	961.10	7.80	961.80	957.79	6.72	12.58	80.00	9456.07	1025.13	10566.47
802.47	3.810	52000.00	961.11	7.81	961.81	957.79	6.71	12.54	80.00	9456.06	1025.17	10566.48
1722.42	3.830	52000.00	961.41	8.61	961.93	957.43	5.77	8.63	105.00	9434.55	1135.18	10569.73
805.08	3.830	52000.00	961.42	8.62	961.94	957.43	5.77	8.61	105.00	9434.54	1135.19	10569.74
1735.32	3.930	52000.00	961.84	8.34	962.42	958.22	6.11	10.12	500.00	9453.42	1112.22	10565.64
817.98	3.930	52000.00	961.84	8.34	962.42	958.22	6.10	10.10	500.00	9453.42	1112.23	10565.65
1748.08	4.020	52000.00	962.36	8.46	962.88	958.33	5.80	8.53	500.00	9452.83	1112.03	10564.85
830.74	4.020	52000.00	962.37	8.47	962.89	958.33	5.80	8.52	500.00	9452.82	1112.04	10564.86
1750.52	4.040	52000.00	962.33	7.83	963.05	959.07	6.81	12.96	100.00	9461.15	1013.61	10572.37
833.18	4.040	52000.00	962.33	7.83	963.05	959.07	6.80	12.94	100.00	9461.15	1013.63	10572.38
1753.45	4.060	52000.00	962.61	7.71	963.20	959.08	6.18	10.55	120.00	9454.74	1112.42	10567.17
836.11	4.060	52000.00	962.61	7.71	963.20	959.08	6.18	10.53	120.00	9454.74	1112.43	10567.17
1757.79	4.092	52000.00	962.78	7.58	963.38	959.31	6.22	10.77	170.00	9454.53	1111.99	10566.52
840.45	4.092	52000.00	962.79	7.59	963.39	959.31	6.22	10.76	170.00	9454.52	1112.00	10566.52
1758.05	* 4.094	52000.00	962.61	4.11	964.67	962.61	11.52	83.15	10.00	9458.06	1105.60	10563.66
840.71	* 4.094	52000.00	962.61	4.11	964.67	962.61	11.52	83.13	10.00	9458.06	1105.60	10563.66
1766.48	* 4.160	52000.00	965.04	7.84	965.75	962.20	6.78	14.47	330.00	9461.40	1120.20	10581.59
849.14	* 4.160	52000.00	965.04	7.84	965.75	962.20	6.78	14.47	330.00	9461.40	1120.20	10581.59
1779.17	4.260	52000.00	965.75	8.75	966.50	963.02	6.91	15.23	495.00	9427.01	1113.03	10540.04
861.83	4.260	52000.00	965.75	8.75	966.50	963.02	6.91	15.23	495.00	9427.01	1113.03	10540.04

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TWA	SECNO	Q	CWSEL	DEPTH	EG	CRWS	VCH	10*KS	XLCH	SSTA	TOPWID	ENDST
1781.61	4.270	52000.00	965.88	8.78	966.66	962.95	7.11	14.99	100.00	9458.96	1016.78	10573.50
864.27	4.270	52000.00	965.88	8.78	966.66	962.95	7.11	14.99	100.00	9458.96	1016.78	10573.50
1784.42	4.300	52000.00	966.19	8.59	966.83	962.92	6.40	11.83	115.00	9467.63	1113.12	10580.75
867.08	4.300	52000.00	966.19	8.59	966.83	962.92	6.40	11.83	115.00	9467.63	1113.12	10580.75
1796.72	4.390	52000.00	966.77	9.17	967.37	963.29	6.20	10.71	480.00	9452.43	1119.10	10571.53
879.38	4.390	52000.00	966.77	9.17	967.37	963.29	6.20	10.71	480.00	9452.43	1119.10	10571.53
1809.56	4.480	52000.00	967.33	9.53	967.86	963.38	5.85	8.81	500.00	9451.96	1118.08	10570.05
892.22	4.480	52000.00	967.33	9.53	967.86	963.38	5.85	8.81	500.00	9451.96	1118.08	10570.05
1812.25	4.500	52000.00	967.38	9.58	967.98	963.38	6.21	9.50	110.00	9453.77	1010.03	10565.56
894.91	4.500	52000.00	967.38	9.58	967.98	963.38	6.21	9.50	110.00	9453.77	1010.03	10565.56
1815.16	4.520	52000.00	967.57	9.57	968.10	963.59	5.86	8.77	120.00	9450.06	1106.92	10556.97
897.82	4.520	52000.00	967.57	9.57	968.10	963.59	5.86	8.77	120.00	9450.06	1106.92	10556.97
1825.99	4.600	52000.00	967.95	9.85	968.47	963.87	5.77	8.38	425.00	9459.72	1111.27	10571.00

Effective Model Output  
AGUAFRIA.OUT

908.64	4.600	52000.00	967.95	9.85	968.47	963.87	5.77	8.38	425.00	9459.72	1111.27	10571.00
1838.72	4.700	52000.00	968.36	9.26	968.93	964.68	6.06	9.83	500.00	9460.50	1107.42	10567.92
921.38	4.700	52000.00	968.36	9.26	968.93	964.68	6.06	9.83	500.00	9460.50	1107.42	10567.92
1844.48	4.754	52000.00	968.58	8.28	969.18	964.65	6.23	11.54	225.00	9438.46	1123.93	10562.39
927.14	4.754	52000.00	968.58	8.28	969.18	964.65	6.23	11.54	225.00	9438.46	1123.93	10562.39
1846.47	4.759	52000.00	968.69	8.39	969.27	964.65	6.14	11.05	77.00	9438.36	1124.12	10562.48
929.13	4.759	52000.00	968.69	8.39	969.27	964.65	6.14	11.05	77.00	9438.36	1124.12	10562.48
* 1851.61	4.790	52000.00	968.75	7.65	969.68	966.78	7.78	22.70	200.00	9458.38	1115.25	10573.63
* 934.27	4.790	52000.00	968.75	7.65	969.68	966.78	7.78	22.70	200.00	9458.38	1115.25	10573.63
1864.33	4.890	52000.00	969.89	8.09	970.68	967.58	7.15	18.29	485.00	9396.01	1169.84	10565.86
946.99	4.890	52000.00	969.89	8.09	970.68	967.58	7.15	18.29	485.00	9396.01	1169.84	10565.86
1878.64	4.980	52000.00	970.88	8.08	971.50	968.06	6.34	13.42	515.00	9362.94	1250.71	10613.65
961.30	4.980	52000.00	970.88	8.08	971.50	968.06	6.34	13.42	515.00	9362.94	1250.71	10613.65
1881.08	5.000	52000.00	970.98	7.58	971.63	968.00	6.46	13.10	88.00	9358.10	1169.86	10622.12
963.74	5.000	52000.00	970.98	7.58	971.63	968.00	6.46	13.10	88.00	9358.10	1169.86	10622.12
1883.90	5.020	52000.00	971.10	7.00	971.78	968.63	6.59	15.74	100.00	9355.88	1281.89	10637.77
966.56	5.020	52000.00	971.10	7.00	971.78	968.63	6.59	15.74	100.00	9355.88	1281.89	10637.77
1896.26	5.100	52000.00	971.78	6.58	972.66	970.21	7.55	26.35	410.00	9322.67	1344.91	10667.57
978.92	5.100	52000.00	971.78	6.58	972.66	970.21	7.55	26.35	410.00	9322.67	1344.91	10667.57
1904.89	5.150	52000.00	972.48	5.08	973.77	971.86	9.10	51.36	275.00	9306.95	1388.65	10695.61
987.55	5.150	52000.00	972.48	5.08	973.77	971.86	9.10	51.36	275.00	9306.95	1388.65	10695.61

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TWA	SECNO	Q	CWSEL	DEPTH	EG	CRISW	VCH	10*KS	XLCH	SSTA	TOPWID	ENDST
1913.51	5.201	52000.00	973.91	4.81	974.85	972.62	7.78	30.61	270.00	9304.89	1392.04	10696.92
996.17	5.201	52000.00	973.91	4.81	974.85	972.62	7.78	30.61	270.00	9304.89	1392.04	10696.92
* 1913.83	5.203	52000.00	973.52	3.52	975.29	973.52	10.66	87.12	10.00	9306.07	1389.49	10695.56
* 996.48	5.203	52000.00	973.52	3.52	975.29	973.52	10.66	87.12	10.00	9306.07	1389.49	10695.56
* 1921.61	5.250	52000.00	975.63	5.43	976.73	974.67	8.43	39.40	245.00	9308.63	1377.96	10686.59
* 1004.27	5.250	52000.00	975.63	5.43	976.73	974.67	8.43	39.40	245.00	9308.63	1377.96	10686.59
1925.40	5.270	52000.00	976.03	5.33	977.31	975.21	9.07	45.04	125.00	9329.95	1266.62	10659.78
1008.06	5.270	52000.00	976.03	5.33	977.31	975.21	9.07	45.04	125.00	9329.95	1266.62	10659.78
1929.21	5.290	52000.00	976.95	5.45	977.80	975.19	7.40	28.66	125.00	9267.73	1385.94	10653.67
1011.87	5.290	52000.00	976.95	5.45	977.80	975.19	7.40	28.66	125.00	9267.73	1385.94	10653.67
1931.12	5.305	52000.00	977.18	5.68	977.96	975.19	7.11	25.31	60.00	9267.33	1386.66	10653.99
1013.78	5.305	52000.00	977.18	5.68	977.96	975.19	7.11	25.31	60.00	9267.33	1386.66	10653.99
1933.19	5.317	54400.00	977.28	5.58	978.17	975.51	7.55	29.09	65.00	9267.36	1386.60	10653.96
1015.85	5.317	54400.00	977.28	5.58	978.17	975.51	7.55	29.09	65.00	9267.36	1386.60	10653.96

Effective Model Output  
AGUAFRIA.OUT

1935.10	5.328	54400.00	977.53	5.83	978.34	975.51	7.24	25.43	60.00	9266.91	1387.41	10654.33
1017.76	5.328	54400.00	977.53	5.83	978.34	975.51	7.24	25.43	60.00	9266.91	1387.41	10654.33
1943.71	5.380	54400.00	978.16	6.76	979.12	976.59	7.86	27.00	280.00	9351.35	1292.39	10643.74
1026.37	5.380	54400.00	978.16	6.76	979.12	976.59	7.86	27.00	280.00	9351.35	1292.39	10643.74
1959.48	5.480	54400.00	979.55	6.85	980.35	977.34	7.17	19.02	540.00	9310.00	1256.16	10566.16
1042.13	5.480	54400.00	979.55	6.85	980.35	977.34	7.17	19.02	540.00	9310.00	1256.16	10566.16
1963.60	5.510	54400.00	979.67	6.97	980.81	978.19	8.59	30.57	150.00	9320.00	1138.12	10554.65
1046.26	5.510	54400.00	979.67	6.97	980.81	978.19	8.59	30.57	150.00	9320.00	1138.12	10554.65
1967.37	5.540	54400.00	980.21	7.61	981.22	978.57	8.09	27.03	140.00	9330.00	1209.04	10539.04
1050.03	5.540	54400.00	980.21	7.61	981.22	978.57	8.09	27.03	140.00	9330.00	1209.04	10539.04
1982.92	5.650	54400.00	981.63	8.73	982.37	978.75	6.90	14.57	580.00	9419.23	1126.80	10546.03
1065.58	5.650	54400.00	981.63	8.73	982.37	978.75	6.90	14.57	580.00	9419.23	1126.80	10546.03
1988.41	5.689	54400.00	982.07	8.22	982.66	978.18	6.17	11.35	210.00	9385.82	1152.46	10538.28
1071.07	5.689	54400.00	982.07	8.22	982.66	978.18	6.17	11.35	210.00	9385.82	1152.46	10538.28
1990.00	5.700	54400.00	982.14	8.29	982.73	978.18	6.12	11.03	60.00	9385.70	1152.70	10538.40
1072.66	5.700	54400.00	982.14	8.29	982.73	978.18	6.12	11.03	60.00	9385.70	1152.70	10538.40
1998.08	5.750	54400.00	982.44	8.74	983.13	979.31	6.71	13.12	310.00	9452.74	1119.25	10571.99
1080.74	5.750	54400.00	982.44	8.74	983.13	979.31	6.71	13.12	310.00	9452.74	1119.25	10571.99

2001.82	5.770	54400.00	982.62	9.12	983.33	979.53	6.73	13.36	145.00	9435.38	1123.63	10559.01
1084.48	5.770	54400.00	982.62	9.12	983.33	979.53	6.73	13.36	145.00	9435.38	1123.63	10559.01

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TWA	SECNO	Q	CWSEL	DEPTH	EG	CRISW	VCH	10*KS	XLCH	SSTA	TOPWID	ENDST
2005.62	5.790	54400.00	982.64	8.04	983.70	980.59	8.27	23.40	155.00	9443.50	1015.97	10557.55
1088.28	5.790	54400.00	982.64	8.04	983.70	980.59	8.27	23.40	155.00	9443.50	1015.97	10557.55
2009.29	5.810	54400.00	983.29	8.69	984.00	980.19	6.74	13.25	150.00	9449.75	1110.69	10560.44
1091.94	5.810	54400.00	983.29	8.69	984.00	980.19	6.74	13.25	150.00	9449.75	1110.69	10560.44
2022.05	5.900	54400.00	983.96	8.56	984.73	981.21	7.06	15.51	500.00	9439.50	1112.51	10552.01
1104.70	5.900	54400.00	983.96	8.56	984.73	981.21	7.06	15.51	500.00	9439.50	1112.51	10552.01
2034.80	5.990	54400.00	984.73	9.23	985.51	981.95	7.06	15.45	500.00	9439.35	1109.63	10548.99
1117.46	5.990	54400.00	984.73	9.23	985.51	981.95	7.06	15.45	500.00	9439.35	1109.63	10548.99
2045.25	6.070	54400.00	985.38	8.68	986.13	982.47	6.93	14.52	410.00	9424.20	1112.14	10536.34
1127.91	6.070	54400.00	985.38	8.68	986.13	982.47	6.93	14.52	410.00	9424.20	1112.14	10536.34
2058.04	6.160	54400.00	986.11	7.01	986.90	983.45	7.13	16.05	500.00	9428.99	1114.84	10543.83
1140.69	6.160	54400.00	986.11	7.01	986.90	983.45	7.13	16.05	500.00	9428.99	1114.84	10543.83
2070.84	6.260	54400.00	986.93	6.73	987.92	985.00	7.99	23.47	500.00	9435.08	1115.70	10550.78
1153.50	6.260	54400.00	986.93	6.73	987.92	985.00	7.99	23.47	500.00	9435.08	1115.70	10550.78
2083.52	6.350	54400.00	988.10	7.60	989.02	985.86	7.71	20.32	500.00	9455.46	1094.92	10550.39

Effective Model Output  
AGUAFRIA.OUT

1166.18	6.350	54400.00	988.10	7.60	989.02	985.86	7.71	20.32	500.00	9455.46	1094.92	10550.39
2094.57	6.430	54400.00	989.00	8.00	990.20	987.47	8.79	30.37	445.00	9461.07	1066.53	10527.60
1177.22	6.430	54400.00	989.00	8.00	990.20	987.47	8.79	30.37	445.00	9461.07	1066.53	10527.60
* 2105.48	6.520	54400.00	990.38	8.88	991.06	987.11	6.65	12.45	440.00	9469.62	1095.24	10564.86
* 1188.14	6.520	54400.00	990.38	8.88	991.06	987.11	6.65	12.45	440.00	9469.62	1095.24	10564.86
2107.65	6.540	54400.00	990.27	7.87	991.32	988.10	8.20	22.23	90.00	9473.14	1001.00	10572.97
1190.31	6.540	54400.00	990.27	7.87	991.32	988.10	8.20	22.23	90.00	9473.14	1001.00	10572.97
2110.07	6.560	54400.00	990.79	8.69	991.52	987.82	6.88	14.12	100.00	9473.24	1107.89	10581.13
1192.73	6.560	54400.00	990.79	8.69	991.52	987.82	6.88	14.12	100.00	9473.24	1107.89	10581.13
2113.89	6.590	54400.00	991.11	9.31	991.72	987.44	6.25	10.31	150.00	9462.66	1112.03	10574.69
1196.55	6.590	54400.00	991.11	9.31	991.72	987.44	6.25	10.31	150.00	9462.66	1112.03	10574.69
2116.39	6.610	54400.00	991.04	9.24	991.94	988.47	7.60	18.85	100.00	9448.77	1066.40	10562.54
1199.05	6.610	54400.00	991.04	9.24	991.94	988.47	7.60	18.85	100.00	9448.77	1066.40	10562.54
2120.14	6.640	54400.00	991.50	9.10	992.19	988.30	6.65	12.66	150.00	9454.60	1112.14	10566.75
1202.80	6.640	54400.00	991.50	9.10	992.19	988.30	6.65	12.66	150.00	9454.60	1112.14	10566.75
2123.59	6.660	54400.00	991.60	9.40	992.43	989.01	7.32	17.46	135.00	9476.36	1112.30	10588.65
1206.25	6.660	54400.00	991.60	9.40	992.43	989.01	7.32	17.46	135.00	9476.36	1112.30	10588.65
2126.78	6.690	54400.00	991.98	9.78	992.63	988.54	6.45	11.44	125.00	9462.53	1112.59	10575.13
1209.44	6.690	54400.00	991.98	9.78	992.63	988.54	6.45	11.44	125.00	9462.53	1112.59	10575.13

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TWA	SECNO	Q	CWSEL	DEPTH	EG	CRISWS	VCH	10*KS	XLCH	SSTA	TOPWID	ENDST
2129.83	6.710	54400.00	992.11	10.61	992.76	988.17	6.47	10.26	125.00	9463.26	1013.34	10574.14
1212.49	6.710	54400.00	992.11	10.61	992.76	988.17	6.47	10.26	125.00	9463.26	1013.34	10574.14
2132.52	6.730	54400.00	992.30	9.90	992.88	988.46	6.11	9.54	110.00	9461.58	1112.35	10573.93
1215.17	6.730	54400.00	992.30	9.90	992.88	988.46	6.11	9.54	110.00	9461.58	1112.35	10573.93
* 2138.37	6.770	54400.00	991.88	6.78	993.71	991.55	10.86	64.09	230.00	9457.39	1102.91	10560.30
* 1221.02	6.770	54400.00	991.88	6.78	993.71	991.55	10.86	64.09	230.00	9457.39	1102.91	10560.30
2141.02	6.790	54400.00	992.93	8.63	994.26	991.50	9.24	33.11	110.00	9456.73	1001.19	10561.16
1223.68	6.790	54400.00	992.93	8.63	994.26	991.50	9.24	33.11	110.00	9456.73	1001.19	10561.16
2143.80	6.820	54400.00	993.73	8.93	994.58	991.24	7.39	17.88	115.00	9457.95	1106.10	10564.05
1226.46	6.820	54400.00	993.73	8.93	994.58	991.24	7.39	17.88	115.00	9457.95	1106.10	10564.05
* 2153.09	6.890	54400.00	994.18	4.78	995.96	993.79	10.73	62.10	365.00	9454.42	1110.40	10564.82
* 1235.75	6.890	54400.00	994.18	4.78	995.96	993.79	10.73	62.10	365.00	9454.42	1110.40	10564.82
2155.78	6.910	54400.00	994.81	5.31	996.62	994.32	10.80	56.85	110.00	9443.21	1018.43	10568.00
1238.43	6.910	54400.00	994.81	5.31	996.62	994.32	10.80	56.85	110.00	9443.21	1018.43	10568.00
* 2158.37	6.930	54400.00	996.11	6.21	997.07	994.12	7.87	22.68	105.00	9432.07	1131.93	10564.01
* 1241.03	6.930	54400.00	996.11	6.21	997.07	994.12	7.87	22.68	105.00	9432.07	1131.93	10564.01

Effective Model Output  
AGUAFRIA.OUT

2164.38	6.970	54400.00	996.63	6.23	997.59	994.68	7.85	22.78	230.00	9415.89	1143.00	10558.89
1247.03	6.970	54400.00	996.63	6.23	997.59	994.68	7.85	22.78	230.00	9415.89	1143.00	10558.89
2167.00	6.990	54400.00	996.59	6.39	998.05	995.55	9.71	40.61	105.00	9419.31	1032.44	10549.14
1249.65	6.990	54400.00	996.59	6.39	998.05	995.55	9.71	40.61	105.00	9419.31	1032.44	10549.14
* 2170.08	7.020	54400.00	997.61	8.51	998.43	995.04	7.26	17.02	125.00	9444.65	1115.41	10560.07
* 1252.74	7.020	54400.00	997.61	8.51	998.43	995.04	7.26	17.02	125.00	9444.65	1115.41	10560.07
2175.78	7.060	54400.00	997.96	8.36	998.88	995.68	7.67	19.90	225.00	9457.82	1092.76	10550.58
1258.44	7.060	54400.00	997.96	8.36	998.88	995.68	7.67	19.90	225.00	9457.82	1092.76	10550.58
2178.42	7.080	54400.00	998.08	7.58	999.17	996.04	8.37	23.71	110.00	9466.81	998.41	10554.88
1261.08	7.080	54400.00	998.08	7.58	999.17	996.04	8.37	23.71	110.00	9466.81	998.41	10554.88
2181.41	7.100	54400.00	998.35	7.45	999.52	996.82	8.70	29.94	125.00	9451.71	1082.37	10534.08
1264.06	7.100	54400.00	998.35	7.45	999.52	996.82	8.70	29.94	125.00	9451.71	1082.37	10534.08
* 2193.72	7.200	54400.00	999.80	9.10	1000.56	996.77	7.00	14.17	500.00	9482.05	1063.27	10545.31
* 1276.38	7.200	54400.00	999.80	9.10	1000.56	996.77	7.00	14.17	500.00	9482.05	1063.27	10545.31
2205.69	7.290	54400.00	1000.48	7.28	1001.57	998.55	8.36	24.23	500.00	9483.22	1022.39	10505.61
1288.35	7.290	54400.00	1000.48	7.28	1001.57	998.55	8.36	24.23	500.00	9483.22	1022.39	10505.61
2217.19	7.390	54400.00	1001.69	7.89	1002.60	999.05	7.66	17.62	495.00	9507.39	1002.00	10509.40
1299.85	7.390	54400.00	1001.69	7.89	1002.60	999.05	7.66	17.62	495.00	9507.39	1002.00	10509.40

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TWA	SECNO	Q	CWSEL	DEPTH	EG	CRWS	VCH	10*KS	XLCH	SSTA	TOPWID	ENDST
2228.91	7.490	54400.00	1002.59	7.39	1003.57	1000.13	7.95	19.36	515.00	9517.21	979.92	10497.13
1311.57	7.490	54400.00	1002.59	7.39	1003.57	1000.13	7.95	19.36	515.00	9517.21	979.92	10497.13
2239.63	7.580	54400.00	1003.55	8.15	1004.38	1000.36	7.30	14.26	480.00	9517.08	965.56	10482.64
1322.29	7.580	54400.00	1003.55	8.15	1004.38	1000.36	7.30	14.26	480.00	9517.08	965.56	10482.64
* 2251.19	7.670	54400.00	1004.39	10.09	1004.89	999.25	5.66	6.53	510.00	9521.35	1010.05	10531.40
* 1333.85	7.670	54400.00	1004.39	10.09	1004.89	999.25	5.66	6.53	510.00	9521.35	1010.05	10531.40
2262.91	7.770	54400.00	1004.68	8.58	1005.37	1001.05	6.63	11.34	500.00	9499.02	1031.78	10530.80
1345.57	7.770	54400.00	1004.68	8.58	1005.37	1001.05	6.63	11.34	500.00	9499.02	1031.78	10530.80
2275.23	7.870	54400.00	1005.28	7.88	1005.96	1002.02	6.60	12.34	500.00	9460.36	1113.52	10573.88
1357.88	7.870	54400.00	1005.28	7.88	1005.96	1002.02	6.60	12.34	500.00	9460.36	1113.52	10573.88
2288.33	7.960	54400.00	1005.97	7.37	1006.50	1002.61	5.84	10.28	470.00	9346.52	1315.04	10661.56
1370.98	7.960	54400.00	1005.97	7.37	1006.50	1002.61	5.84	10.28	470.00	9346.52	1315.04	10661.56
2293.75	7.990	54400.00	1006.18	7.08	1006.68	1002.86	5.68	10.03	175.00	9318.01	1385.60	10703.62
1376.41	7.990	54400.00	1006.18	7.08	1006.68	1002.86	5.68	10.03	175.00	9318.01	1385.60	10703.62
2295.39	8.000	54400.00	1006.18	6.98	1006.80	1003.12	6.30	15.15	50.00	9249.43	1461.69	10711.12
1378.04	8.000	54400.00	1006.18	6.98	1006.80	1003.12	6.30	15.15	50.00	9249.43	1461.69	10711.12
2297.90	8.010	54400.00	1006.33	7.13	1006.92	1003.12	6.17	14.22	75.00	9249.15	1462.25	10711.40

Effective Model Output  
AGUAFRIA.OUT

1380.56	8.010	54400.00	1006.33	7.13	1006.92	1003.12	6.17	14.22	75.00	9249.15	1462.25	10711.40
*	8.030	54400.00	1006.19	6.99	1007.12	1004.79	7.72	29.25	50.00	9451.49	1436.45	10887.94
2299.57	8.030	54400.00	1006.19	6.99	1007.12	1004.79	7.72	29.25	50.00	9451.49	1436.45	10887.94
1382.22	8.105	54400.00	1007.40	6.90	1008.04	1005.31	6.49	18.16	397.59	9395.59	1575.09	10970.68
2313.18	8.105	54400.00	1007.38	6.88	1008.08	1005.40	6.76	19.79	397.59	9470.00	1500.65	10970.65
1395.60	8.198	54400.00	1008.29	6.79	1009.03	1006.43	6.90	21.20	490.43	9470.48	1493.30	10963.78
2330.37	8.198	54400.00	1008.35	6.85	1009.08	1006.43	6.83	20.47	490.43	9470.38	1493.46	10963.84
1412.43	8.325	54400.00	1010.00	7.90	1010.76	1008.31	7.04	32.04	668.82	9483.50	1556.63	11040.13
2353.82	8.325	54400.00	1010.02	7.92	1010.82	1008.37	7.20	33.35	668.82	9483.48	1506.52	10990.00
1435.48	8.433	54400.00	1011.98	6.98	1012.96	1010.79	8.41	44.76	572.54	9018.94	1666.40	10992.81
2374.86	8.433	54400.00	1012.09	7.09	1013.44	1011.31	9.69	57.70	572.54	9250.00	1418.65	10975.00
1454.65	8.534	54400.00	1014.38	6.58	1014.82	1012.87	5.16	26.52	531.32	8512.76	2607.48	11120.24
2400.99	8.534	54400.00	1015.12	7.32	1015.74	1013.53	6.40	31.90	531.32	9010.00	1955.00	10965.00
1475.23	8.646	54400.00	1015.75	7.95	1016.14	1013.59	5.27	19.10	591.78	8772.94	2548.87	11321.82
2435.92	8.646	54400.00	1016.69	8.89	1017.20	1014.50	5.97	19.27	591.78	9050.00	1940.00	10990.00
1501.71	8.768	54400.00	1017.26	8.86	1018.03	1016.64	8.52	44.99	641.67	8182.95	3037.83	11299.11
2476.58	8.768	54400.00	1018.12	9.72	1018.93	1017.08	8.43	35.98	641.67	9275.00	1830.00	11105.00
1529.32												

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TWA	SECNO	Q	CWSEL	DEPTH	EG	CRISW	VCH	10*KS	XLCH	SSTA	TOPWID	ENDST
2513.92	8.875	54400.00	1019.52	10.42	1020.29	1018.82	8.18	36.60	565.21	8600.00	2837.14	11450.46
1551.93	8.875	54400.00	1020.01	10.91	1020.92	1018.93	8.39	34.46	565.21	9525.00	1770.00	11295.00
2548.61	8.992	54400.00	1021.34	13.24	1021.78	1018.77	5.47	16.70	619.79	9300.00	2206.57	11513.83
1575.10	8.992	54400.00	1021.81	13.71	1022.26	1018.90	5.38	14.50	619.79	9770.00	1695.00	11465.00
2574.82	9.098	54400.00	1022.22	12.32	1022.64	1019.38	5.21	13.86	561.62	9732.91	1825.25	11558.16
1597.21	9.098	54400.00	1022.61	12.71	1022.98	1019.39	4.94	11.46	561.62	9820.00	1739.29	11559.29
2591.63	9.177	54400.00	1022.82	12.42	1023.31	1020.28	5.62	17.13	415.85	9885.95	1692.83	11578.78
1613.57	9.177	54400.00	1023.11	12.71	1023.55	1020.28	5.35	14.58	415.85	9884.36	1695.44	11579.81
2593.95	9.191	54400.00	1022.88	12.18	1023.35	.00	5.50	15.84	60.00	9888.19	1685.90	11574.09
1615.90	9.191	54400.00	1023.16	12.46	1023.59	.00	5.25	13.61	60.00	9887.20	1687.96	11575.16
2595.28	9.198	54400.00	1022.92	11.82	1023.44	1020.55	5.78	18.87	34.15	9884.46	1692.50	11576.97
1617.23	9.198	54400.00	1023.19	12.09	1023.66	1020.53	5.50	16.01	34.15	9883.69	1694.50	11578.19
2611.52	9.266	54400.00	1023.69	9.99	1024.11	1021.32	5.30	17.23	359.00	9441.69	2258.31	11700.00
1632.02	9.266	54400.00	1023.81	10.11	1024.26	1021.36	5.40	17.35	359.00	9725.00	1895.00	11620.00
2633.88	9.343	54400.00	1024.39	9.99	1024.92	1022.12	5.86	21.21	407.20	9496.60	2503.80	12100.00
1649.54	9.343	54400.00	1024.52	10.12	1025.04	1022.12	5.80	20.15	407.20	9618.00	1852.00	11470.00
2660.68	9.435	54400.00	1025.38	10.18	1025.93	1023.14	6.04	20.55	482.24	9363.65	2307.82	11822.13
1668.63	9.435	54400.00	1025.46	10.26	1026.03	1022.98	6.05	20.23	482.24	9548.00	1593.80	11141.80

Effective Model Output  
AGUAFRIA.OUT

2684.96	9.519	54400.00	1026.33	10.03	1026.96	1024.44	6.49	24.81	445.93	9358.27	2436.07	11794.34
1685.29	9.519	54400.00	1026.39	10.09	1027.05	1024.47	6.54	24.74	445.93	9500.00	1660.00	11160.00
2708.86	9.605	54400.00	1027.42	8.72	1028.08	1025.29	6.54	24.30	453.02	9338.06	2156.08	11770.33
1702.40	9.605	54400.00	1027.50	8.80	1028.15	1025.29	6.50	23.58	453.02	9510.00	1630.00	11140.00
2735.35	9.696	54400.00	1028.72	10.02	1029.08	1025.81	4.94	16.24	484.29	9021.69	2678.25	11699.95
1719.75	9.696	54400.00	1028.76	10.06	1029.68	1027.32	7.75	39.44	484.29	9570.00	1510.00	11080.00
2764.74	9.790	30000.00	1029.58	10.08	1029.82	1026.99	4.17	12.29	492.77	9140.72	2809.28	11950.00
1736.14	9.790	30000.00	1030.49	10.99	1030.73	1026.85	3.90	8.50	492.77	9525.00	1399.00	10924.00
2794.40	9.885	30000.00	1030.38	9.28	1030.77	1029.34	5.35	29.31	503.63	9331.20	2494.57	11825.77
1752.29	9.885	30000.00	1031.02	9.92	1031.44	1029.21	5.19	22.11	503.63	9328.83	1396.17	10725.00
2820.00	9.981	30000.00	1031.70	8.90	1032.07	1030.20	5.23	24.27	504.23	9308.54	2526.00	12300.00
1767.79	9.981	30000.00	1032.13	9.33	1032.60	1029.95	5.51	23.61	504.23	9303.75	1306.25	10610.00
2846.03	10.071	30000.00	1032.83	7.93	1033.25	1031.25	5.47	26.52	474.54	9231.57	2994.69	12278.55
1781.49	10.071	30000.00	1033.26	8.36	1033.74	1031.18	5.61	24.42	474.54	9289.00	1231.00	10520.00
2874.46	10.167	30000.00	1033.82	10.52	1034.24	1031.21	5.41	15.34	512.35	9380.00	2573.33	11977.56
1794.42	10.167	30000.00	1034.23	10.93	1034.68	1031.31	5.43	14.10	512.35	9390.00	990.00	10380.00

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TWA	SECNO	Q	CWSEL	DEPTH	EG	CRISW	VCH	10*KS	XLCH	SSTA	TOPWID	ENDST
2897.16	10.265	30000.00	1034.48	8.08	1035.66	1033.19	8.93	40.92	512.41	9550.00	1915.23	11653.06
1804.34	10.265	30000.00	1034.82	8.42	1035.99	1033.09	8.74	36.44	512.41	9620.00	740.00	10360.00
2910.84	10.343	30000.00	1036.59	9.89	1037.31	1034.85	7.34	39.15	411.16	9750.00	1641.25	11407.72
1810.40	10.343	30000.00	1036.67	9.97	1037.75	1034.54	8.44	51.06	411.16	9750.00	590.00	10340.00
2929.87	10.442	30000.00	1038.52	9.12	1038.92	1036.33	5.54	24.80	528.25	9632.42	1807.29	11439.71
1818.42	10.442	30000.00	1039.14	9.74	1039.73	1036.07	6.21	27.55	528.25	9631.21	748.79	10380.00
2949.67	10.538	30000.00	1039.65	8.95	1039.96	1036.44	4.66	16.93	504.98	9528.27	1529.73	11058.00
1828.20	10.538	30000.00	1040.40	9.70	1040.72	1036.43	4.54	13.86	504.98	9540.00	940.00	10480.00
2965.24	10.632	30000.00	1040.50	8.80	1040.89	1037.24	5.07	19.61	496.32	9422.36	1189.63	10612.00
1839.14	10.632	30000.00	1041.10	9.40	1041.44	1037.27	4.71	15.06	496.32	9445.00	985.00	10430.00
2980.87	10.752	30000.00	1041.82	10.52	1042.42	1038.53	6.32	28.24	628.61	9335.00	991.16	10326.16
1852.29	10.752	30000.00	1042.13	10.83	1042.71	1038.50	6.12	24.99	628.61	9480.00	847.33	10327.33
2995.55	10.846	30000.00	1043.16	11.56	1043.75	1039.88	6.40	24.81	500.68	8855.00	1544.22	10399.22
1861.39	10.846	30000.00	1043.34	11.74	1043.97	1039.89	6.49	24.71	500.68	9580.00	730.00	10310.00
3013.29	10.942	30000.00	1044.33	10.13	1044.73	1040.09	5.18	15.08	503.71	9130.00	1416.65	10555.06
1870.46	10.942	30000.00	1044.53	10.33	1044.95	1040.07	5.24	14.99	503.71	9570.00	810.00	10380.00
3025.81	11.029	30000.00	1045.09	10.39	1045.44	1041.22	4.78	15.68	459.59	9513.14	946.80	10459.94
1879.62	11.029	30000.00	1045.29	10.59	1045.63	1041.21	4.67	14.37	459.59	9491.23	918.77	10410.00
3037.80	11.128	30000.00	1045.95	10.55	1046.28	1042.42	4.63	15.97	525.10	9340.00	1044.79	10384.79

Effective Model Output  
AGUAFRIA.OUT

1890.56	11.128	30000.00	1046.11	10.71	1046.49	1042.51	5.01	18.08	525.10	9430.00	895.00	10325.00
3048.77	11.224	30000.00	1046.82	8.72	1047.33	1043.75	5.92	25.85	506.70	9450.00	862.29	10312.29
1900.38	11.224	30000.00	1047.06	8.96	1047.54	1043.75	5.73	23.06	506.70	9450.00	812.00	10262.00
3057.68	* 11.325	30000.00	1048.30	8.90	1049.96	1047.22	10.49	86.68	531.86	9570.00	617.64	10244.31
1908.59	* 11.325	30000.00	1048.33	8.93	1050.00	1047.22	10.48	85.64	531.86	9570.00	563.51	10190.00
3063.81	* 11.410	30000.00	1051.71	9.91	1052.52	1048.76	7.25	33.98	451.31	9650.66	577.29	10227.95
1914.36	* 11.410	30000.00	1051.73	9.93	1052.54	1048.76	7.22	33.66	451.31	9650.61	577.38	10228.00
3065.71	11.428	30000.00	1051.78	9.98	1053.12	.00	9.41	49.96	145.00	9625.44	566.42	10191.85
1916.27	11.428	30000.00	1051.80	10.00	1053.13	.00	9.38	49.51	145.00	9625.36	566.55	10191.91
3068.10	11.460	34500.00	1052.25	25.05	1054.21	1050.79	11.38	44.44	166.83	9527.60	685.31	10212.91
1918.61	11.460	34500.00	1052.26	25.06	1054.24	1050.78	11.42	44.66	166.83	9530.00	664.00	10194.00
3078.69	11.557	34500.00	1054.44	31.64	1056.49	1053.33	12.85	42.89	510.85	8970.00	1122.12	10092.12
1927.73	11.557	34500.00	1054.41	31.61	1056.83	1053.47	13.61	48.27	510.85	9200.00	892.06	10092.06
3095.07	11.653	34500.00	1057.21	35.11	1058.45	1055.48	10.62	27.15	508.97	8420.00	1678.23	10120.01
1940.58	11.653	34500.00	1057.53	35.43	1058.99	1055.68	11.13	28.90	508.97	8800.00	1303.70	10121.09

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TWA	SECNO	Q	CWSEL	DEPTH	EG	CRWS	VCH	10*KS	XLCH	SSTA	TOPWID	ENDST
3117.12	11.750	34500.00	1058.46	36.56	1060.35	1057.59	12.41	35.30	510.54	7870.00	2086.93	10133.45
1957.97	11.750	34500.00	1058.89	36.99	1060.80	1057.67	12.30	33.31	510.54	8400.00	1668.06	10137.88
3145.89	* 11.847	34500.00	1060.95	40.65	1061.81	1058.69	9.12	15.62	512.16	7310.00	2826.52	10147.92
1980.27	11.847	34500.00	1061.14	40.84	1062.27	1058.84	9.92	18.15	512.16	8000.00	2138.41	10148.90
3167.21	11.900	34500.00	1061.12	15.92	1062.82	1060.38	11.60	27.70	273.00	6880.00	2732.91	10156.61
1995.79	11.900	34500.00	1061.38	16.18	1063.33	1060.10	12.07	29.25	273.00	7750.00	1934.89	10158.38
3177.80	11.943	34500.00	1062.73	33.33	1063.52	1060.65	8.98	15.44	235.61	6800.00	3137.64	10120.03
2003.57	11.943	34500.00	1063.10	33.70	1064.09	1060.85	9.61	17.11	235.61	7650.00	2303.78	10123.18
3217.44	12.042	34500.00	1063.97	15.47	1064.31	1061.28	7.17	10.81	520.00	6350.00	3751.17	10101.17
2032.46	12.042	34500.00	1064.49	15.99	1065.00	1061.85	8.08	12.97	520.00	7400.00	2709.49	10109.49
3261.83	12.141	34500.00	1064.63	15.33	1064.87	1061.67	6.65	9.83	526.38	6195.39	3820.05	10073.80
2064.91	12.141	34500.00	1065.33	16.03	1065.67	1061.92	7.33	11.15	526.38	7200.00	2821.55	10074.66
3306.18	12.247	34500.00	1065.21	14.51	1065.39	1061.63	5.82	8.99	560.46	6360.03	3722.30	10082.33
2097.93	12.247	34500.00	1066.02	15.32	1066.25	1062.17	6.27	9.63	560.46	7300.00	2786.00	10086.00
3348.00	12.359	34500.00	1065.56	13.86	1065.74	1060.88	4.64	4.96	586.15	6629.96	3463.94	10093.90
2128.85	12.359	34500.00	1066.38	14.68	1066.62	1060.94	4.89	4.99	586.15	7600.00	2500.00	10100.00
3375.28	12.420	34500.00	1065.74	11.74	1065.89	1059.41	3.33	3.65	302.47	7000.00	3131.93	10231.82
2148.51	12.420	34500.00	1066.62	12.62	1066.76	1059.42	3.16	2.88	302.47	7850.00	2343.27	10200.00
3390.77	12.470	34500.00	1065.84	10.94	1066.01	1062.20	3.78	5.80	255.00	7365.62	2508.99	10379.50
2160.95	12.470	34500.00	1066.69	11.79	1066.86	1062.23	3.65	4.66	255.00	8000.00	2146.98	10300.00

Effective Model Output  
AGUAFRIA.OUT

3404.97	12.529	34500.00	1065.99	9.89	1066.22	1062.16	4.23	6.32	345.00	7547.27	2180.77	10388.06
2173.15	12.529	34500.00	1066.81	10.71	1067.03	1062.09	4.06	5.10	345.00	8200.00	1777.18	10391.92
3430.10	12.630	34500.00	1066.35	10.45	1066.61	1063.19	4.59	8.32	532.95	8093.08	1967.20	10755.30
2189.64	12.630	34500.00	1067.03	11.13	1067.47	1063.09	5.42	10.29	532.95	9561.76	938.24	10500.00
3450.29	* 12.725	34500.00	1066.71	19.91	1067.33	1064.47	6.62	20.06	499.53	8504.69	1503.27	10634.65
2200.02	12.725	34500.00	1067.55	20.75	1068.12	1064.37	6.16	14.79	499.53	9651.72	878.28	10530.00
3464.17	12.816	34500.00	1067.59	25.99	1068.56	1065.31	8.05	27.59	481.56	8544.21	970.49	10473.14
2208.66	12.816	34500.00	1068.21	26.61	1069.03	1065.41	7.38	20.68	481.56	9772.48	702.66	10475.14
3475.50	12.913	34500.00	1068.99	29.29	1070.17	1066.76	8.77	33.14	513.23	8907.29	952.33	10301.15
2216.31	12.913	34500.00	1069.26	29.56	1070.37	1066.84	8.47	29.43	513.23	9712.23	589.71	10301.94
3483.79	13.007	34500.00	1070.43	8.43	1072.21	1068.71	10.78	43.22	493.53	8846.44	513.10	10215.30
2222.15	13.007	34500.00	1070.54	8.54	1072.27	1068.71	10.64	41.36	493.53	9774.42	441.24	10215.66
3495.88	* 13.103	34500.00	1072.73	10.23	1073.57	1068.82	7.46	16.23	505.18	8751.98	1572.65	10324.63
2227.58	* 13.103	34500.00	1072.72	10.22	1073.65	1068.83	7.74	17.47	505.18	9830.00	494.58	10324.58

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TWA	SECNO	Q	CWSEL	DEPTH	EG	CRWS	VCH	10*KS	XLCH	SSTA	TOPWID	ENDST
3510.96	13.200	34500.00	1073.63	10.63	1074.23	1068.35	6.31	9.78	512.50	9245.83	996.54	10355.81
2233.73	13.200	34500.00	1073.72	10.72	1074.33	1068.35	6.34	9.77	512.50	9805.00	551.16	10356.16
3522.54	13.296	34500.00	1074.23	10.73	1074.67	1068.61	5.38	7.35	509.87	9229.18	999.91	10342.82
2241.29	13.296	34500.00	1074.33	10.83	1074.78	1068.61	5.38	7.26	509.87	9600.24	742.85	10343.09
3534.58	* 13.395	34500.00	1074.73	10.73	1075.35	1072.22	6.28	22.67	521.75	9228.97	1022.96	10325.92
2251.87	* 13.395	34500.00	1074.83	10.83	1075.42	1072.21	6.17	21.42	521.75	9227.64	1028.17	10326.19
3542.60	* 13.450	34500.00	1075.55	11.75	1075.84	1072.17	4.37	9.10	290.40	8840.22	1382.19	10222.41
2259.91	* 13.450	34500.00	1075.61	11.81	1075.90	1072.16	4.32	8.80	290.40	8837.26	1385.35	10222.62
3545.49	13.467	34500.00	1075.59	11.49	1075.89	.00	4.42	11.15	90.00	8785.78	1417.38	10203.16
2262.81	13.467	34500.00	1075.65	11.55	1075.95	.00	4.37	10.77	90.00	8782.98	1420.37	10203.35
3554.42	* 13.518	34500.00	1075.93	11.73	1076.64	1074.69	6.91	47.91	270.00	8613.99	1472.32	10200.28
2271.42	* 13.518	34500.00	1075.95	11.75	1076.74	1074.71	7.20	52.34	270.00	8740.00	1361.72	10200.31
3563.85	13.565	34500.00	1077.18	11.38	1077.78	1075.87	6.39	41.48	252.49	7935.71	1799.17	10231.13
2279.51	13.565	34500.00	1077.28	11.48	1077.98	1075.82	6.76	44.97	252.49	8800.00	1431.25	10231.25
3584.62	13.663	34500.00	1079.17	13.47	1079.72	1077.75	6.34	34.53	514.87	7515.68	1735.81	10354.50
2295.65	13.663	34500.00	1079.39	13.69	1080.05	1077.83	6.73	36.44	514.87	9020.00	1304.96	10354.00
3605.43	13.760	34500.00	1080.91	13.01	1081.44	1079.48	6.10	32.66	511.31	7041.87	1827.66	10427.50
2310.37	13.760	34500.00	1081.21	13.31	1081.86	1079.38	6.54	34.11	511.31	9220.00	1207.00	10427.00
3625.13	13.856	34500.00	1082.22	11.02	1082.87	1080.33	7.27	23.45	509.71	6932.59	1553.74	10419.95
2323.48	13.856	34500.00	1082.56	11.36	1083.21	1080.33	7.13	21.11	509.71	9380.00	1039.90	10419.90
3641.64	13.952	34500.00	1083.52	10.22	1084.59	1082.57	8.69	43.77	507.98	7144.00	1280.95	10384.79

Effective Model Output  
AGUAFRIA.OUT

2335.29	13.952	34500.00	1083.73	10.43	1084.74	1082.60	8.42	39.07	507.98	9400.00	984.00	10384.00
3657.88	14.049	34500.00	1085.81	11.31	1086.61	1084.52	7.44	35.08	512.16	7310.47	1507.92	10310.43
2347.08	14.049	34500.00	1085.83	11.33	1086.67	1084.47	7.52	35.60	512.16	9280.00	1030.00	10310.00
3677.35	14.145	34500.00	1087.49	10.59	1087.95	1085.49	5.63	19.64	509.68	7621.29	1848.01	10431.13
2359.92	14.145	34500.00	1087.54	10.64	1088.07	1085.48	5.89	21.23	509.68	9180.01	1169.99	10350.00
3698.44	14.240	34500.00	1088.61	8.31	1089.05	1086.99	5.55	24.45	500.12	7931.55	2079.36	10698.97
2373.96	14.240	34500.00	1088.74	8.44	1089.33	1087.09	6.18	29.18	500.12	9133.48	1266.52	10400.00
3721.63	14.335	34500.00	1089.94	10.14	1090.42	1088.61	5.90	30.89	498.73	8022.95	2089.42	10875.00
2388.96	14.335	34500.00	1090.25	10.45	1090.89	1088.79	6.42	33.07	498.73	9110.00	1350.00	10460.00
3746.23	14.430	34500.00	1091.43	8.23	1091.91	1090.15	5.95	28.39	502.88	8083.92	2266.94	10846.66
2404.66	14.430	34500.00	1091.83	8.63	1092.46	1090.15	6.42	29.33	502.88	9172.60	1347.40	10520.00
3770.14	14.525	34500.00	1092.71	9.51	1093.11	1090.68	5.40	19.67	504.32	8329.84	1955.33	10760.37
2420.24	14.525	34500.00	1093.19	9.99	1093.62	1090.78	5.47	17.87	504.32	9236.05	1301.88	10600.00

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TWA	SECNO	Q	CWSEL	DEPTH	EG	CRWS	VCH	10*KS	XLCH	SSTA	TOPWID	ENDST
* 3791.39	14.619	34500.00	1093.83	7.53	1094.60	1092.87	7.45	41.92	494.31	8442.02	1858.61	10785.59
2436.40	14.619	34500.00	1094.20	7.90	1094.92	1092.84	7.11	34.46	494.31	9311.10	1464.75	10785.00
3814.77	14.708	34500.00	1095.68	7.28	1096.33	1094.85	7.11	32.34	470.75	8510.67	2497.73	11149.31
2454.11	14.708	34500.00	1095.81	7.41	1096.66	1094.92	7.77	37.37	470.75	9410.00	1720.07	11140.00
3839.77	14.809	34500.00	1097.10	10.00	1098.01	1095.06	7.80	28.37	530.81	8562.48	1657.00	10235.61
2469.42	14.809	34500.00	1097.41	10.31	1098.32	1095.00	7.69	25.97	530.81	9455.00	780.00	10235.00
* 3856.98	14.905	34500.00	1098.61	10.01	1099.03	1095.53	5.62	13.74	508.67	8985.33	1313.41	10298.75
2478.81	14.905	34500.00	1098.80	10.20	1099.43	1095.85	6.53	17.87	508.67	9330.00	830.00	10160.00
3872.18	15.000	34500.00	1099.39	10.59	1099.91	1097.22	6.27	21.52	500.84	9183.79	1339.16	10522.95
2488.40	15.000	34500.00	1099.75	10.95	1100.63	1097.94	7.59	29.00	500.84	9290.00	840.00	10130.00
3889.21	15.094	34500.00	1100.48	10.58	1100.92	1098.37	5.85	18.94	496.49	9301.67	1653.78	10955.45
2498.09	15.094	34500.00	1101.19	11.29	1101.84	1098.41	6.54	20.19	496.49	9330.00	860.00	10190.00
3905.53	15.188	34500.00	1101.32	12.32	1102.25	1099.99	8.26	33.07	495.48	9495.92	1414.78	11050.00
2507.31	15.188	34500.00	1102.10	13.10	1103.13	1100.08	8.28	28.39	495.48	9485.00	791.69	10280.00
3919.59	15.281	34500.00	1102.87	10.27	1103.94	1102.28	9.61	35.62	491.34	9655.64	1293.97	10950.00
2515.48	15.281	34500.00	1103.40	10.80	1104.90	1102.25	10.60	39.60	491.34	9660.00	710.00	10370.00
3930.59	15.374	34500.00	1104.26	10.46	1106.15	1104.11	12.33	49.42	491.44	9829.03	936.64	10770.00
2522.05	15.374	34500.00	1105.00	11.20	1107.12	1104.31	12.51	45.49	491.44	9832.00	558.00	10390.00
* 3939.76	15.469	34500.00	1106.86	11.66	1107.67	1104.25	8.44	19.05	502.35	9709.79	785.78	10500.00
* 2528.47	15.469	34500.00	1107.68	12.48	1108.56	1104.34	8.50	17.36	502.35	9708.89	621.11	10330.00
3948.13	15.564	34500.00	1107.86	11.66	1108.74	1105.26	9.09	23.20	502.28	9559.99	740.01	10300.00
2535.64	15.564	34500.00	1108.67	12.47	1109.45	1105.19	8.43	17.87	502.28	9558.75	661.25	10220.00

Effective Model Output  
AGUAFRIA.OUT

15.658	34500.00	1109.06	11.96	1109.88	1105.80	7.54	21.59	496.88	9451.44	698.56	10150.00	
3956.39	15.658	34500.00	1109.63	12.53	1110.36	1105.76	7.15	17.57	496.88	9450.48	669.52	10120.00
2543.35	15.719	34500.00	1109.75	16.05	1110.59	1106.17	8.19	19.69	322.50	9387.19	666.37	10053.56
3961.74	15.719	34500.00	1110.21	16.51	1110.94	1106.15	7.72	16.52	322.50	9386.45	667.71	10054.16
2548.60	15.814	34500.00	1110.65	16.25	1111.82	1107.97	9.93	25.85	502.36	9384.62	653.15	10037.77
3969.38	15.814	34500.00	1110.95	16.55	1112.02	1108.04	9.52	22.96	502.36	9383.93	654.46	10038.40
2556.25	15.909	34500.00	1112.07	14.27	1112.77	1107.88	7.70	13.54	499.15	9347.63	708.55	10056.19
3977.13	15.909	34500.00	1112.22	14.42	1112.89	1107.88	7.56	12.84	499.15	9347.41	709.05	10056.46
2564.02	16.004	34500.00	1112.87	13.17	1113.35	1108.05	6.48	9.33	500.65	9260.63	802.26	10062.89
3985.87	16.004	34500.00	1112.98	13.28	1113.45	1108.04	6.39	8.98	500.65	9260.48	802.59	10063.07
2572.76	16.099	34500.00	1113.32	12.52	1113.91	1109.90	7.20	11.73	499.97	9228.22	839.07	10067.29
3995.35	16.099	34500.00	1113.29	12.49	1114.15	1110.14	8.31	15.64	499.97	9400.00	667.25	10067.25
2581.25												

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TWA	SECNO	Q	CWSEL	DEPTH	EG	CRWS	VCH	10*KS	XLCH	SSTA	TOPWID	ENDST
16.195	34500.00	1113.70	12.90	1114.85	1110.27	8.90	20.27	507.17	9345.85	561.69	10076.91	
4003.53	16.195	34500.00	1113.96	13.16	1115.13	1110.21	8.89	19.56	507.17	9650.00	427.29	10077.29
2587.64	16.289	34500.00	1114.69	13.89	1115.88	1110.94	8.77	20.48	500.20	9623.39	455.08	10078.46
4009.40	16.289	34500.00	1114.95	14.15	1116.10	1110.88	8.63	19.19	500.20	9680.00	398.86	10078.86
2592.39	* 16.385	34500.00	1115.62	11.92	1118.56	1115.62	13.89	89.58	506.90	9617.34	470.37	10087.71
4014.78	* 16.385	34500.00	1115.51	11.81	1118.72	1115.51	14.40	98.42	506.90	9690.00	397.53	10087.53
2597.02	* 16.471	36000.00	1119.12	13.72	1120.41	1115.46	9.26	20.69	453.88	9741.13	438.30	10179.43
4019.46	* 16.471	36000.00	1119.33	13.93	1120.57	1115.46	9.06	19.28	453.88	9739.26	440.61	10179.87
2601.37	16.482	36000.00	1119.65	14.05	1120.61	1114.86	7.88	15.05	58.08	9788.39	437.96	10226.35
4020.04	16.482	36000.00	1119.82	14.22	1120.76	1114.90	7.75	14.27	58.08	9787.92	453.92	10241.84
2601.96	16.506	36000.00	1119.82	14.42	1120.80	.00	7.95	16.74	126.72	9777.90	460.30	10238.20
4021.34	16.506	36000.00	1119.98	14.58	1120.93	.00	7.82	15.89	126.72	9777.21	461.45	10238.66
2603.29	16.514	36000.00	1119.67	13.97	1121.12	1116.35	9.73	24.40	42.24	9798.59	425.34	10223.93
4021.77	16.514	36000.00	1119.84	14.14	1121.24	1116.35	9.56	23.01	42.24	9798.47	427.24	10225.71
2603.72	16.518	36000.00	1120.80	15.10	1122.00	.00	8.92	23.68	40.00	9794.61	435.14	10229.75
4022.17	16.518	36000.00	1120.88	15.18	1122.07	.00	8.84	23.06	40.00	9794.48	435.41	10229.89
2604.11	16.612	36000.00	1121.94	13.64	1123.14	1117.34	8.83	22.07	499.42	9799.05	387.02	10186.07
4026.68	16.612	36000.00	1121.99	13.69	1123.18	1117.34	8.78	21.72	499.42	9799.00	387.28	10186.28
2608.63	16.707	36000.00	1123.10	15.40	1124.22	1118.11	8.52	20.96	500.01	9794.94	383.73	10178.67
4031.10	16.707	36000.00	1123.13	15.43	1124.25	1118.09	8.49	20.76	500.01	9794.91	383.92	10178.83
2613.05	16.801	36000.00	1124.22	21.52	1125.17	1118.49	7.97	16.75	498.39	9737.88	430.35	10168.23
4035.76	16.801	36000.00	1124.17	21.47	1125.22	1118.47	8.27	18.11	498.39	9800.00	368.08	10168.08
2617.36	16.895	36000.00	1124.99	15.19	1126.07	1119.57	8.37	18.14	494.89	9815.51	373.30	10188.81
4040.33												

Effective Model Output  
AGUAFRIA.OUT

2621.57	16.895	36000.00	1125.04	15.24	1126.11	1119.57	8.33	17.87	494.89	9815.44	373.52	10188.96
4044.44	16.990	36000.00	1125.86	35.26	1127.08	1120.49	8.90	20.53	500.20	9792.38	343.41	10135.79
2625.68	16.990	36000.00	1125.90	35.30	1127.11	1120.49	8.87	20.27	500.20	9792.31	343.55	10135.86
4048.77	17.085	36000.00	1127.04	38.14	1128.11	1122.14	8.36	20.25	500.75	9728.47	409.76	10138.24
2630.01	17.085	36000.00	1127.06	38.16	1128.13	1122.13	8.34	20.09	500.75	9728.44	409.85	10138.29
4054.42	17.180	36000.00	1128.12	40.42	1129.16	1123.27	8.27	21.25	501.73	9569.10	536.58	10105.68
2635.21	17.180	36000.00	1128.12	40.42	1129.18	1123.26	8.33	21.54	501.73	9630.00	475.68	10105.68
4065.29	* 17.277	36000.00	1129.54	41.94	1129.76	1123.01	4.30	5.44	512.16	9230.33	1122.82	10370.00
2642.87	* 17.277	36000.00	1129.56	41.96	1129.94	1122.93	5.41	8.61	512.16	9525.00	705.00	10230.00
4079.99	17.370	36000.00	1129.84	43.24	1130.07	1123.65	4.41	5.71	487.12	8986.58	1187.56	10174.14
2652.46	17.370	36000.00	1130.03	43.43	1130.39	1123.83	5.31	8.11	487.12	9350.00	824.61	10174.61

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TWA	SECNO	Q	CWSEL	DEPTH	EG	CRWS	VCH	10*KS	XLCH	SSTA	TOPWID	ENDST
4093.53	17.458	36000.00	1130.14	38.94	1130.40	1124.84	4.33	8.48	466.91	9014.04	1330.00	10350.05
2662.13	17.458	36000.00	1130.46	39.26	1130.82	1124.87	4.85	10.11	466.91	9280.00	970.00	10250.00
4107.32	* 17.548	36000.00	1130.61	25.61	1131.02	1126.99	5.29	19.03	472.50	8990.19	1228.55	10234.03
2672.68	* 17.548	36000.00	1131.01	26.01	1131.54	1127.23	5.86	21.62	472.50	9246.60	978.47	10235.59
4120.38	* 17.638	37500.00	1133.86	27.46	1135.53	1133.86	10.67	202.16	476.45	9158.67	1135.41	10319.92
2683.69	* 17.638	37500.00	1134.16	27.76	1135.87	1134.16	10.82	184.41	476.45	9285.00	1021.15	10321.67
4137.01	* 17.730	37500.00	1138.24	38.44	1139.09	1137.30	8.19	36.78	486.34	8381.71	1886.93	10361.85
2695.03	* 17.730	37500.00	1138.49	38.69	1139.60	1137.20	8.86	41.11	486.34	9330.00	1030.00	10360.00
4157.44	* 17.821	37500.00	1139.61	9.61	1140.25	1137.83	7.21	16.63	478.24	8350.00	1850.84	10270.00
2705.51	* 17.821	37500.00	1140.00	10.00	1140.93	1137.18	8.11	19.82	478.24	9385.00	885.00	10270.00
4179.91	* 17.910	37500.00	1140.47	10.47	1140.78	1136.54	5.16	7.50	474.74	8380.00	2550.00	10930.00
2715.60	* 17.910	37500.00	1141.11	11.11	1141.57	1136.41	5.82	8.77	474.74	9430.00	1045.00	10475.00
4205.96	18.000	37500.00	1140.86	10.86	1141.20	1137.21	5.39	9.93	474.83	8450.00	2374.79	10844.31
2727.01	18.000	37500.00	1141.60	11.60	1142.02	1137.12	5.71	9.94	474.83	9485.00	1060.62	10555.00
4229.74	18.093	37500.00	1141.37	11.47	1141.89	1138.46	6.50	17.27	491.00	8520.00	2053.04	10665.07
2738.60	18.093	37500.00	1142.12	12.22	1142.65	1138.44	6.39	14.64	491.00	9565.00	976.43	10590.00
4250.03	18.182	37500.00	1142.17	12.37	1142.91	1139.93	7.89	23.97	466.97	8640.00	1928.79	10622.06
2749.47	18.182	37500.00	1142.80	13.00	1143.50	1140.10	7.54	19.63	466.97	9600.00	1020.00	10620.00
4270.75	18.275	37500.00	1143.41	13.31	1144.11	1141.78	7.78	24.53	491.28	8779.86	1873.00	10652.87
2761.42	18.275	37500.00	1143.82	13.72	1144.56	1141.85	7.79	22.84	491.28	9570.00	1083.98	10653.98
4290.92	* 18.369	37500.00	1145.02	20.92	1145.90	1144.24	9.35	53.24	498.93	8820.00	1820.37	10640.37
2774.01	* 18.369	37500.00	1145.28	21.18	1146.50	1144.36	10.38	61.43	498.93	9550.00	1090.00	10640.00
4309.95	18.464	37500.00	1147.43	10.43	1148.00	1145.96	7.40	32.79	499.78	8900.00	1636.02	10536.02
2786.10	18.464	37500.00	1148.11	11.11	1149.03	1146.34	8.73	38.85	499.78	9550.00	980.00	10530.00

Effective Model Output  
AGUAFRIA.OUT

18.558	37500.00	1149.05	12.55	1149.76	1147.75	7.61	37.12	500.28	9000.00	1453.58	10453.58
4326.91	18.558	37500.00	1149.97	13.47	1150.80	1147.89	7.84	31.60	500.28	9520.00	934.93 10454.93
2796.99	18.653	37500.00	1150.76	44.46	1151.58	1149.38	7.95	35.09	502.17	9090.00	1257.92 10439.67
4341.76	18.653	37500.00	1151.49	45.19	1152.25	1149.32	7.46	26.30	502.17	9470.00	965.03 10440.00
2807.69	18.748	37500.00	1152.38	60.88	1153.45	1150.72	8.99	37.93	501.11	9150.00	1180.97 10347.60
4354.95	18.748	37500.00	1152.75	61.25	1153.78	1150.71	8.71	33.14	501.11	9400.00	948.01 10348.01
2818.23	18.839	37500.00	1153.92	34.12	1154.67	1150.97	7.29	17.85	480.48	9250.00	1083.25 10343.97
4366.76	18.839	37500.00	1154.17	34.37	1154.88	1150.89	7.15	16.49	480.48	9350.00	986.71 10344.46
2828.41	18.937	37500.00	1155.10	9.40	1155.53	1151.65	6.03	15.47	512.97	9368.09	1094.44 10462.53
4378.77	18.937	37500.00	1155.27	9.57	1155.68	1151.65	5.88	14.22	512.97	9366.90	1095.99 10462.89
2839.95											

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TWA	SECNO	Q	CWSEL	DEPTH	EG	CRWS	VCH	10*KS	XLCH	SSTA	TOPWID	ENDST
18.962	37500.00	1155.28	9.08	1155.80	1152.41	6.73	21.05	132.00	9418.37	1065.08	10483.44	
4381.89	18.962	37500.00	1155.44	9.24	1155.94	1152.44	6.57	19.39	132.00	9417.95	1065.90 10483.84	
2843.08	18.978	37500.00	1155.36	7.86	1155.98	.00	7.24	26.41	86.29	9425.06	1067.58 10492.64	
4384.06	18.978	37500.00	1155.51	8.01	1156.10	.00	7.06	24.29	86.29	9424.67	1068.32 10492.99	
2845.26	19.066	37500.00	1156.66	7.26	1157.38	1155.11	7.91	34.01	465.00	9356.48	1354.76 10711.24	
4396.38	19.066	37500.00	1156.72	7.32	1157.42	1155.10	7.80	32.62	465.00	9356.13	1355.21 10711.34	
2857.58	19.162	37500.00	1158.42	7.52	1159.07	1157.10	7.74	33.67	505.28	9000.00	1851.71 10884.08	
4414.54	19.162	37500.00	1158.42	7.52	1159.15	1157.13	8.06	36.44	505.28	9240.00	1644.09 10884.09	
2874.60	19.256	37500.00	1160.32	6.72	1161.52	1160.29	11.09	70.12	496.96	8680.00	2122.51 11024.73	
4436.37	19.256	37500.00	1160.43	6.83	1161.79	1160.37	11.54	74.02	496.96	9175.00	1710.19 11025.00	
2893.09	19.352	37500.00	1162.98	8.38	1163.44	1161.69	7.29	22.84	509.58	8605.31	2686.04 11291.97	
4463.45	19.352	37500.00	1163.27	8.67	1163.84	1161.97	7.77	24.48	509.58	9150.00	2142.00 11292.00	
2914.73	19.446	37500.00	1164.08	8.38	1164.52	1162.15	6.47	21.30	496.07	8897.66	2403.39 11336.52	
4491.74	19.446	37500.00	1164.46	8.76	1164.90	1162.20	6.39	19.20	496.07	9170.00	2166.93 11336.93	
2938.29	19.542	37500.00	1165.24	8.24	1165.71	1163.59	7.20	26.09	506.41	8883.11	2559.01 11478.90	
4520.08	19.542	37500.00	1165.51	8.51	1166.00	1163.57	7.25	24.95	506.41	9235.00	2243.00 11478.00	
2963.29	19.635	37500.00	1166.60	7.50	1167.03	1164.92	6.33	27.47	492.64	8954.96	2241.18 11548.81	
4547.21	19.635	37500.00	1166.83	7.73	1167.34	1165.21	6.79	29.65	492.64	9310.00	2072.99 11548.00	
2987.65	19.732	37500.00	1168.03	7.13	1168.52	1166.55	6.88	31.20	508.23	8883.98	2480.32 11690.80	
4574.38	19.732	37500.00	1168.35	7.45	1168.93	1166.76	7.38	32.98	508.23	9370.00	2130.61 11690.00	
3011.72	19.827	37500.00	1169.65	7.25	1170.06	1168.11	6.36	30.21	501.12	8923.64	2703.35 11727.27	
4604.14	19.827	37500.00	1170.05	7.65	1170.53	1168.37	6.76	30.46	501.12	9520.00	2207.00 11727.00	
3036.62	19.920	37500.00	1171.03	8.43	1171.41	1169.13	6.01	25.09	490.63	8995.54	2373.74 11778.05	
4632.61	19.920	37500.00	1171.44	8.84	1171.88	1169.31	6.33	24.93	490.63	9660.00	1883.57 11778.00	
3059.62	20.015	37500.00	1172.40	8.40	1172.93	1171.15	7.18	35.12	503.14	8967.04	2259.36 11518.43	
4659.17												

Effective Model Output  
AGUAFRIA.OUT

3079.61	20.015	37500.00	1172.78	8.78	1173.38	1171.44	7.49	34.59	503.14	9700.00	1619.49	11518.00
4684.36	20.111	37500.00	1173.99	8.69	1174.51	1172.48	7.12	29.14	510.07	8919.71	2129.88	11308.24
3096.71	20.111	37500.00	1174.35	9.05	1174.99	1172.66	7.62	30.77	510.07	9732.70	1473.73	11308.00
4707.58	20.207	37500.00	1175.37	8.17	1176.07	1174.08	8.19	31.91	504.21	8809.51	1929.41	11073.11
3111.56	20.207	37500.00	1175.76	8.56	1176.65	1174.44	8.88	34.69	504.21	9760.00	1250.29	11073.65
4727.78	20.294	37500.00	1176.75	10.05	1177.29	1175.06	7.54	23.04	459.65	8651.34	1940.71	10898.00
3123.70	20.294	37500.00	1177.27	10.57	1177.85	1175.12	7.49	20.71	459.65	9740.00	1158.63	10898.63
4739.57	20.343	37500.00	1177.40	8.70	1177.95	1175.93	7.65	28.71	261.59	8542.24	2107.67	10970.00
3130.78	20.343	37500.00	1177.84	9.14	1178.49	1176.01	7.95	28.32	261.59	9720.00	1250.00	10970.00

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TWA	SECNO	Q	CWSEL	DEPTH	EG	CRWS	VCH	10*KS	XLCH	SSTA	TOPWID	ENDST
4750.02	20.388	37500.00	1177.98	9.08	1178.79	1177.01	8.82	39.99	232.89	8441.92	1989.66	10820.00
3136.87	20.388	37500.00	1178.38	9.48	1179.33	1177.16	9.13	39.21	232.89	9700.00	1120.00	10820.00
4760.63	20.435	37500.00	1178.90	10.10	1179.87	1178.29	9.30	42.96	248.16	8354.46	1987.51	10650.00
3142.79	20.435	37500.00	1179.22	10.42	1180.56	1178.36	10.28	49.03	248.16	9670.00	915.71	10650.00
4771.50	20.483	37500.00	1179.89	10.09	1180.75	1178.24	8.22	28.54	252.75	8279.77	2079.63	10540.07
3147.90	20.483	37500.00	1180.33	10.53	1181.59	1178.47	9.23	33.12	252.75	9670.00	870.00	10540.00
4793.66	20.579	37500.00	1181.35	9.45	1182.45	1180.37	9.18	37.57	509.77	8181.59	2022.27	10328.68
3156.68	20.579	37500.00	1182.02	10.12	1183.40	1180.28	9.69	36.95	509.77	9660.00	669.50	10329.50
4814.08	20.675	37500.00	1183.00	11.70	1183.98	1181.72	9.19	24.85	502.63	8302.58	1530.60	10222.87
3163.96	20.675	37500.00	1183.64	12.34	1184.99	1181.35	10.03	27.07	502.63	9630.00	593.86	10223.86
4831.00	20.769	37500.00	1184.43	11.33	1185.03	1182.11	7.22	17.60	497.97	8692.68	1584.29	10276.97
3171.58	20.769	37500.00	1185.32	12.22	1186.09	1182.23	7.65	17.21	497.97	9500.00	778.62	10278.62
4850.46	20.864	35000.00	1185.35	9.35	1185.88	1183.03	6.73	16.92	502.57	8420.29	1990.23	10501.03
3181.30	20.864	35000.00	1186.22	10.22	1186.95	1183.16	7.28	17.14	502.57	9340.00	970.00	10310.00
4868.62	20.958	35000.00	1186.20	16.30	1186.87	1184.39	7.15	23.12	496.89	8824.55	1556.13	10748.46
3191.87	20.958	35000.00	1187.06	17.16	1187.96	1184.36	7.70	22.74	496.89	9250.00	1079.03	10383.90
4886.59	21.061	35000.00	1187.24	17.64	1188.35	1185.08	8.76	27.54	542.53	9030.00	1407.65	11040.63
3202.14	21.061	35000.00	1188.14	18.54	1189.20	1184.73	8.31	21.42	542.53	9250.00	889.66	10350.00
4903.28	21.157	35000.00	1189.24	15.04	1189.56	1185.32	4.66	17.93	509.07	9277.03	1306.41	10952.50
3213.02	21.157	35000.00	1189.86	15.66	1190.16	1185.25	4.41	14.36	509.07	9274.81	1125.19	10400.00
4915.65	* 21.245	35000.00	1190.17	38.07	1190.81	1187.93	5.66	43.43	464.18	9250.00	1101.63	10671.90
3223.75	* 21.245	35000.00	1190.60	38.50	1191.16	1187.93	5.39	35.19	464.18	9250.00	1029.26	10279.26
4928.21	* 21.337	35000.00	1191.20	11.20	1191.35	1183.66	3.30	4.92	483.32	9230.00	1265.96	10856.58
3234.15	* 21.337	35000.00	1191.50	11.50	1191.68	1183.72	3.41	5.07	483.32	9294.00	966.00	10260.00
4940.60	* 21.431	35000.00	1191.28	10.28	1192.20	1189.96	7.76	77.47	495.67	9350.00	969.11	10319.11
3244.79	* 21.431	35000.00	1191.67	10.67	1192.47	1188.40	7.25	61.68	495.67	9400.00	922.69	10322.69

Effective Model Output  
AGUAFRIA.OUT

*	21.524	35000.00	1193.49	11.49	1193.86	1187.87	4.87	17.90	491.44	9604.26	957.53	10561.79	
4951.44	*	21.524	35000.00	1193.60	11.60	1193.96	1187.87	4.80	17.14	491.44	9603.90	937.10	10541.00
3255.28													
*	21.621	35000.00	1194.18	11.68	1194.40	1186.80	3.95	6.75	511.28	9619.54	923.39	10542.93	
4962.32	*	21.621	35000.00	1194.27	11.77	1194.50	1186.79	4.01	6.87	511.28	9670.00	860.00	10530.00
3265.70													
*	21.716	35000.00	1194.54	11.44	1195.12	1191.17	6.50	29.33	502.06	9619.78	1016.51	10636.29	
4973.27	*	21.716	35000.00	1194.55	11.45	1195.35	1191.66	7.43	38.17	502.06	9670.00	830.00	10500.00
3275.40													
	21.798	35000.00	1195.97	10.07	1196.80	1194.45	7.78	49.23	436.18	9651.11	1081.89	10733.00	
4983.63	*	21.798	35000.00	1196.29	10.39	1197.15	1194.58	7.79	44.90	436.18	9649.22	950.78	10600.00
3284.25													

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TWA	SECNO	Q	CWSEL	DEPTH	EG	CRWS	VCH	10*KS	XLCH	SSTA	TOPWID	ENDST
	21.893	35000.00	1198.27	37.07	1199.27	1197.25	8.79	46.63	501.19	9566.00	1174.62	10740.62
4996.78												
	21.893	35000.00	1198.44	37.24	1199.43	1197.28	8.69	43.71	501.19	9565.59	1114.41	10680.00
3296.26												
	21.986	35000.00	1200.58	40.48	1201.13	1198.97	7.51	30.37	490.74	9268.54	1561.66	10830.21
5012.15												
	21.986	35000.00	1200.65	40.55	1201.20	1198.95	7.45	29.41	490.74	9268.34	1396.66	10665.00
3310.32												
*	22.082	35000.00	1201.74	14.34	1201.92	1196.67	3.60	8.84	503.20	9014.20	1986.96	11052.43
5032.40												
	22.082	35000.00	1202.01	14.61	1202.38	1199.44	5.43	18.67	503.20	9010.70	1555.20	10605.00
3326.97												
*	22.177	35000.00	1202.07	8.27	1203.07	1201.20	8.80	55.30	506.29	8857.86	1455.72	10650.00
5052.30												
	22.177	35000.00	1202.96	9.16	1203.77	1201.66	7.89	35.26	506.29	8855.22	1392.19	10533.70
3344.10												
	22.273	35000.00	1204.46	16.86	1205.43	1203.06	8.24	40.24	504.12	8977.78	1253.72	10627.34
5067.97												
	22.273	35000.00	1204.68	17.08	1205.55	1203.06	7.85	34.70	504.12	8977.55	1368.57	10627.75
3360.09												
	22.368	33000.00	1206.55	8.05	1206.91	1204.56	5.44	20.73	504.65	9015.71	1819.20	11110.00
5085.57												
	22.368	33000.00	1206.57	8.07	1206.93	1204.53	5.41	20.45	504.65	9015.69	1832.34	11110.00
3378.45												
	22.462	33000.00	1207.63	7.33	1207.92	1205.50	5.12	20.81	496.37	9046.90	2272.01	11760.00
5108.18												
	22.462	33000.00	1207.64	7.34	1207.92	1205.50	5.11	20.69	496.37	9046.89	2273.51	11760.00
3401.14												
*	22.558	33000.00	1208.88	6.48	1209.82	1208.58	9.38	78.17	502.91	9080.51	1893.33	12001.64
5130.64												
	22.558	33000.00	1208.88	6.48	1209.82	1208.58	9.38	78.23	502.91	9080.51	1891.52	12000.00
3423.60												
*	22.651	33000.00	1211.49	6.69	1211.82	1209.71	5.70	24.75	492.10	9025.78	2611.76	12095.46
5154.88												
	22.651	33000.00	1211.49	6.69	1211.82	1209.71	5.70	24.75	492.10	9025.78	2611.30	12095.00
3447.83												
	22.745	33000.00	1212.78	6.78	1213.17	1211.56	6.36	34.41	496.32	8914.99	3110.28	12094.09
5183.69												
	22.745	33000.00	1212.78	6.78	1213.17	1211.56	6.36	34.42	496.32	8914.99	3110.10	12094.00
3476.63												
	22.839	33000.00	1214.30	7.00	1214.65	1212.92	5.91	29.80	497.66	8727.76	2967.78	11833.17
5214.91												
	22.839	33000.00	1214.30	7.00	1214.65	1212.92	5.91	29.80	497.66	8727.76	2967.61	11833.00
3507.85												
	22.935	33000.00	1215.62	6.62	1215.91	1214.01	4.79	24.13	501.48	8484.93	3101.86	11781.76
5246.91												
	22.935	33000.00	1215.62	6.62	1215.91	1214.01	4.82	24.39	501.48	8484.93	2984.14	11640.00
3539.25												
	23.029	33000.00	1217.03	6.93	1217.47	1216.06	6.50	47.22	500.75	8450.00	2685.04	11583.72
5277.08												
	23.029	33000.00	1217.04	6.94	1217.49	1216.05	6.50	46.96	500.75	8450.00	2566.79	11460.00
3568.25												
	23.124	33000.00	1219.11	7.21	1219.51	1217.95	6.09	39.10	499.39	8580.00	2453.18	11494.80
5304.82												

Effective Model Output  
AGUAFRIA.OUT

23.124	33000.00	1219.11	7.21	1219.52	1217.95	6.10	39.23	499.39	8580.00	2180.51	11155.25
3593.98											
23.219	33000.00	1220.97	6.97	1221.37	1219.67	5.81	35.91	500.52	8860.00	2418.08	11447.95
5332.60											
23.219	33000.00	1220.98	6.98	1221.38	1219.67	5.81	35.88	500.52	8860.00	2181.51	11060.64
3618.82											
23.314	33000.00	1222.95	6.85	1223.55	1222.14	8.08	51.09	504.26	9220.00	2174.56	11496.08
5358.85											
23.314	33000.00	1222.97	6.87	1223.61	1222.07	8.23	52.88	504.26	9220.00	1817.08	11090.00
3641.74											
23.409	33000.00	1225.23	8.53	1225.74	1223.99	6.82	38.75	500.34	9550.00	1865.86	11506.14
5381.70											
23.409	33000.00	1225.42	8.72	1226.19	1224.32	7.97	50.16	500.34	9550.00	1402.86	10970.00
3660.02											

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TWA	SECNO	Q	CWSEL	DEPTH	BG	CRWS	VCH	10*KS	XLCH	SSTA	TOPWID	ENDST
	23.504	33000.00	1227.07	37.97	1227.43	1225.17	4.98	29.96	501.26	9680.00	1989.13	11669.13
5403.52												
3674.80	23.504	33000.00	1227.67	38.57	1228.25	1225.76	6.00	34.41	501.26	9680.00	1200.00	10880.00
	23.598	33000.00	1228.50	51.50	1228.96	1226.47	6.34	30.75	497.60	9683.54	1934.27	11617.81
5425.68												
3687.76	23.598	33000.00	1229.19	52.19	1229.78	1226.89	6.66	28.01	497.60	9681.65	1088.35	10770.00
	23.692	33000.00	1230.19	43.49	1231.04	1229.54	8.81	55.94	494.02	9650.00	1794.53	11444.53
5446.23												
3699.51	* 23.692	33000.00	1230.68	43.98	1231.90	1230.04	9.79	60.38	494.02	9650.00	1025.00	10675.00
	23.790	31000.00	1232.64	53.24	1233.10	1231.19	6.70	29.01	519.17	9630.00	1677.02	11307.02
5466.37												
3711.37	23.790	31000.00	1233.43	54.03	1234.26	1231.76	8.05	34.37	519.17	9630.00	1005.00	10635.00
	23.881	31000.00	1233.93	26.73	1234.61	1232.54	7.63	31.93	477.96	9630.00	1626.86	11256.86
5484.28												
3722.46	23.881	31000.00	1234.89	27.69	1235.69	1232.80	7.74	26.65	477.96	9630.00	1035.00	10665.00
	23.974	31000.00	1236.02	13.72	1236.48	1234.23	6.25	43.90	492.24	9719.92	1362.59	11085.76
5501.33												
3734.65	23.974	31000.00	1236.79	14.49	1237.24	1234.41	6.04	35.29	492.24	9718.81	1106.18	10825.00
	* 24.067	31000.00	1237.69	8.39	1237.91	1234.96	4.05	19.85	493.30	9230.00	1834.75	11064.75
5519.58												
3750.34	24.067	31000.00	1238.28	8.98	1238.51	1235.35	4.22	18.74	493.30	9380.00	1640.00	11020.00
	24.165	31000.00	1238.50	7.10	1238.71	1236.20	4.50	12.68	513.78	8750.00	2435.78	11185.78
5544.65												
3771.11	24.165	31000.00	1239.04	7.64	1239.29	1236.59	4.76	12.41	513.78	9310.00	1875.00	11185.00
	24.212	31000.00	1238.85	7.55	1239.05	1236.81	4.71	15.38	248.42	8520.00	2730.00	11250.00
5559.23												
3782.00	24.212	31000.00	1239.38	8.08	1239.63	1237.08	4.98	14.97	248.42	9300.00	1950.00	11250.00
	24.260	31000.00	1239.26	7.56	1239.42	1237.11	3.85	13.56	254.64	8290.00	2971.03	11261.03
5575.63												
3793.42	24.260	31000.00	1239.79	8.09	1240.00	1237.47	4.33	14.46	254.64	9280.00	1981.00	11261.00
	24.353	31000.00	1240.02	6.42	1240.25	1238.63	4.42	20.09	493.87	7860.00	3412.57	11272.57
5611.50												
3816.34	24.353	31000.00	1240.54	6.94	1240.79	1238.53	4.45	16.93	493.87	9244.00	2028.00	11272.00
	* 24.449	31000.00	1241.31	6.31	1241.74	1240.50	6.27	42.81	502.64	7911.24	2827.36	11319.38
5646.81												
3839.20	* 24.449	31000.00	1241.65	6.65	1242.15	1240.57	6.50	40.85	502.64	9350.53	1854.11	11319.00
	24.543	31000.00	1243.35	7.75	1243.67	1242.15	5.21	35.04	500.50	7851.23	3080.30	11419.23
5680.45												
3861.37	24.543	31000.00	1243.61	8.01	1243.98	1242.15	5.28	32.97	500.50	9340.00	2032.95	11419.00
	24.631	31000.00	1245.12	6.92	1245.46	1244.10	5.12	43.50	462.47	7893.28	3428.53	11775.17
5714.56												
3883.44	24.631	31000.00	1245.37	7.17	1245.79	1244.32	5.66	46.85	462.47	9420.00	2147.61	11595.00

Effective Model Output  
AGUAFRIA.OUT

5753.71	24.721	31000.00	1247.03	6.43	1247.28	1245.92	4.49	34.70	474.09	7573.23	3933.35	12197.40
3906.85	24.721	31000.00	1247.43	6.83	1247.77	1246.05	5.08	38.21	474.09	9537.42	2209.00	11765.00
5798.67	24.816	31000.00	1248.70	7.30	1248.95	1247.39	4.25	33.91	500.52	7539.16	4089.19	12683.00
3932.27	24.816	31000.00	1249.23	7.83	1249.56	1247.74	4.84	35.29	500.52	9680.00	2345.00	12025.00
5845.68	24.910	31000.00	1250.39	6.49	1250.62	1248.97	3.85	34.72	497.86	7621.16	4324.22	12982.12
3959.70	24.910	31000.00	1251.00	7.10	1251.30	1249.37	4.39	36.00	497.86	9628.24	2549.54	12200.00

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TWA	SECNO	Q	CWSEL	DEPTH	EG	CRWS	VCH	10*KS	XLCH	SSTA	TOPWID	ENDST
5887.31	24.996	31000.00	1252.08	5.78	1252.35	1251.07	4.80	43.72	453.23	7833.25	3903.65	13065.66
3985.50	24.996	31000.00	1252.67	6.37	1253.03	1251.51	5.44	41.31	453.23	9776.35	2513.65	12290.00
5933.38	25.098	31000.00	1254.38	5.78	1254.67	1253.33	5.30	43.84	539.63	8060.03	3697.04	12888.47
4014.42	25.098	31000.00	1254.94	6.34	1255.34	1253.89	5.93	46.05	539.63	9880.64	2273.96	12250.00
5976.03	25.192	29000.00	1256.15	6.15	1256.51	1255.23	6.29	29.95	498.98	8291.70	3604.25	12651.69
4039.44	25.192	29000.00	1256.63	6.63	1257.04	1255.36	6.37	25.90	498.98	9853.50	2119.54	11973.04
6012.65	25.288	29000.00	1257.69	6.39	1258.48	1257.35	8.50	45.29	504.05	8869.25	2605.54	12345.34
4062.74	25.288	29000.00	1257.96	6.66	1258.74	1257.34	8.27	39.42	504.05	9811.45	1931.01	11784.75
6042.04	25.382	29000.00	1259.61	5.91	1260.37	1259.12	7.98	32.55	497.55	9272.29	2671.20	12069.27
4084.38	25.382	29000.00	1259.71	6.01	1260.53	1259.11	8.10	32.55	497.55	9740.00	1871.42	11611.42
6068.14	25.478	29000.00	1261.20	7.30	1262.29	1260.93	9.83	41.23	506.16	9581.13	1988.18	11749.51
4105.46	25.478	29000.00	1261.31	7.41	1262.35	1260.96	9.60	38.34	506.16	9753.91	1934.06	11715.00
6079.28	25.526	29000.00	1262.41	8.71	1263.12	1261.34	8.37	24.43	253.16	9668.29	1820.60	11600.00
4117.04	25.526	29000.00	1262.48	8.79	1263.11	1261.36	7.97	21.83	253.16	9779.33	2025.67	11805.00
6088.81	25.572	29000.00	1262.88	8.18	1263.78	1261.85	9.31	24.86	245.34	9814.71	1625.75	11440.46
4126.43	25.572	29000.00	1262.71	8.01	1263.92	1262.03	10.40	32.02	245.34	9840.00	1370.00	11210.00
6104.62	25.666	29000.00	1264.04	8.64	1265.02	1262.90	9.44	24.77	496.69	9802.11	1218.05	11114.11
4139.13	25.666	29000.00	1264.18	8.78	1265.38	1262.94	10.04	27.33	496.69	9830.00	914.56	10810.00
6119.66	25.691	29000.00	1265.52	7.52	1266.09	1264.13	6.64	19.97	460.00	9210.46	1622.66	10833.12
4149.13	25.691	29000.00	1265.82	7.82	1266.52	1264.09	7.03	20.82	460.00	9521.00	979.00	10500.00
6133.14	* 25.720	29000.00	1266.39	8.59	1267.75	1266.39	13.10	57.99	375.00	9033.37	1639.09	10672.46
4157.10	* 25.720	29000.00	1266.76	8.96	1268.52	1266.76	13.90	60.56	375.00	9370.00	930.00	10300.00
6147.15	* 25.790	29000.00	1268.35	9.55	1268.93	1267.23	9.18	19.72	350.00	8663.71	1847.17	10510.88
4164.65	* 25.790	29000.00	1268.95	10.15	1269.83	1267.40	10.30	22.67	350.00	9300.00	950.00	10250.00
6163.57	* 25.860	29000.00	1268.84	8.84	1270.39	1268.84	11.26	34.43	400.00	8283.24	1729.92	10204.54
4173.84	* 25.860	29000.00	1269.68	9.68	1270.80	1268.62	9.70	22.23	400.00	9150.00	1051.00	10201.00
6186.32	* 25.940	29000.00	1271.77	8.37	1272.71	1271.77	11.47	69.81	430.00	8140.96	2745.91	10886.87
4185.31	* 25.940	29000.00	1272.17	8.77	1273.62	1272.17	12.87	80.45	430.00	9080.00	1200.00	10280.00
6213.63	* 26.030	29000.00	1274.11	7.81	1274.35	1272.50	5.41	22.95	460.00	8051.78	3341.97	11393.75

Effective Model Output  
AGUAFRIA.OUT

*	26.030	29000.00	1275.01	8.71	1275.42	1273.00	6.27	24.01	460.00	9170.00	1520.00	10690.00
4197.78												
	26.120	29000.00	1275.23	7.63	1275.45	1273.52	5.69	25.49	450.00	8229.61	3465.64	11804.21
6249.36												
	26.120	29000.00	1276.20	8.60	1276.56	1274.51	6.56	25.89	450.00	9180.00	1840.00	11020.00
4215.65												
*	26.200	29000.00	1276.79	7.59	1277.30	1276.07	7.97	64.29	460.00	8536.79	2504.92	11657.59
6280.88												
*	26.200	29000.00	1277.65	8.45	1278.50	1277.24	9.27	65.39	460.00	9230.00	1830.00	11060.00
4235.03												

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TWA	SECNO	Q	CWSEL	DEPTH	EG	CRWS	VCH	10*KS	XLCH	SSTA	TOPWID	ENDST
	26.290	29000.00	1279.01	7.41	1279.44	1277.95	7.08	37.81	440.00	8461.54	3366.23	11867.93
6310.16												
	26.290	29000.00	1279.92	8.32	1280.55	1278.63	7.68	34.78	440.00	9380.00	1680.00	11060.00
4252.27												
	26.370	29000.00	1280.59	8.69	1280.91	1279.21	6.69	25.84	460.00	8629.11	3563.63	12251.68
6347.56												
	26.370	29000.00	1281.46	9.56	1282.08	1280.05	8.04	30.66	460.00	9480.00	1510.00	10990.00
4269.32												
	26.470	27000.00	1282.05	6.75	1282.58	1280.98	7.44	43.73	490.00	8987.28	2305.19	12464.30
6380.58												
	26.470	27000.00	1283.03	7.73	1283.70	1281.59	7.69	35.52	490.00	9500.00	1320.00	10820.00
4285.14												
	26.550	27000.00	1283.99	7.39	1284.45	1282.97	7.40	43.55	430.00	9223.34	3474.63	13036.77
6408.98												
	26.550	27000.00	1284.70	8.10	1285.48	1283.45	8.50	46.68	430.00	9600.00	1130.00	10730.00
4297.21												
	26.630	27000.00	1285.76	6.36	1286.04	1283.99	6.05	27.23	460.00	9493.56	3949.67	13443.23
6448.67												
	26.630	27000.00	1286.65	7.25	1287.12	1284.02	6.78	27.00	460.00	9780.00	990.00	10770.00
4308.51												
	26.730	27000.00	1286.89	7.09	1287.47	1285.00	8.24	28.85	490.00	9724.11	3319.57	13352.24
6487.97												
	26.730	27000.00	1287.75	7.95	1288.28	1284.97	7.60	21.01	490.00	9870.00	980.00	10850.00
4319.27												
	26.830	27000.00	1288.37	6.37	1289.18	1287.90	9.83	50.22	540.00	9873.37	3536.39	13409.76
6515.54												
*	26.830	27000.00	1288.78	6.78	1289.80	1287.65	10.29	50.37	540.00	9874.00	996.00	10870.00
4327.98												
*	26.940	27000.00	1290.17	8.07	1290.76	1288.62	7.97	21.76	590.00	9805.83	3364.75	13170.58
6545.02												
*	26.940	27000.00	1290.72	8.62	1291.50	1288.64	8.58	23.13	590.00	9806.00	904.00	10710.00
4337.38												
	27.030	27000.00	1291.21	10.01	1292.01	1289.08	9.37	34.92	460.00	9703.74	2165.38	11869.11
6567.75												
	27.030	27000.00	1291.91	10.71	1292.61	1289.08	8.67	26.41	460.00	9704.00	796.00	10500.00
4345.16												
	27.110	27000.00	1292.70	9.00	1292.94	1289.58	5.26	20.59	420.00	8827.30	2599.07	11426.37
6586.53												
	27.110	27000.00	1293.15	9.45	1293.56	1290.35	6.64	28.83	420.00	9130.00	1010.00	10140.00
4351.99												
	27.190	27000.00	1293.80	7.80	1294.12	1291.59	6.29	22.16	420.00	8158.08	2092.48	10250.56
6613.65												
	27.190	27000.00	1294.54	8.54	1295.04	1292.86	7.42	26.17	420.00	8700.00	1350.00	10050.00
4367.15												
	27.300	27000.00	1295.36	6.16	1295.74	1294.12	7.02	28.70	580.00	7740.50	2337.77	10078.27
6646.68												
	27.300	27000.00	1296.23	7.03	1296.77	1294.99	7.73	28.86	580.00	8490.00	1592.00	10082.00
4389.19												
	27.390	27000.00	1297.02	6.72	1297.41	1295.62	7.64	26.06	470.00	7398.65	2701.47	10100.12
6685.39												
	27.390	27000.00	1297.90	7.60	1298.53	1296.84	8.89	29.87	470.00	8400.00	1670.00	10070.00
4413.89												
	27.480	27000.00	1298.67	7.17	1299.13	1297.93	8.09	33.73	500.00	7587.14	2599.53	10186.67
6722.44												
	27.480	27000.00	1299.65	8.15	1300.25	1298.62	8.55	30.74	500.00	8500.00	1630.00	10130.00
4436.81												
	27.580	27000.00	1300.64	7.54	1300.93	1299.07	6.53	24.20	520.00	7859.45	2287.54	10146.99
6760.10												
	27.580	27000.00	1301.54	8.44	1301.98	1299.63	7.40	25.39	520.00	8700.00	1414.00	10114.00
4460.05												

Effective Model Output  
AGUAFRIA.OUT

27.680	27000.00	1302.30	7.60	1302.83	1301.49	8.42	47.98	520.00	7541.05	2554.70	10101.06	
6791.50	27.680	27000.00	1303.16	8.46	1303.94	1302.08	9.29	47.02	520.00	8930.00	1171.00	10101.00
4476.70	27.770	27000.00	1304.47	7.07	1305.03	1303.59	8.30	42.53	490.00	7526.74	2082.98	10104.59
6817.12	27.770	27000.00	1305.31	7.91	1306.16	1304.33	9.33	43.88	490.00	8980.00	1125.00	10105.00
4489.42												

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TWA	SECNO	Q	CWSEL	DEPTH	EG	CRWS	VCH	10*KS	XLCH	SSTA	TOPWID	ENDST
6840.30	27.860	25000.00	1306.05	8.55	1306.55	1304.91	7.30	24.30	475.00	7589.71	2169.40	10130.63
4501.22	27.860	25000.00	1307.01	9.51	1307.61	1305.34	7.49	21.31	475.00	9060.00	1040.00	10100.00
6859.86	* 27.940	25000.00	1307.44	8.34	1308.00	1306.56	8.33	49.63	440.00	7877.74	1900.05	10203.16
4510.55	27.940	25000.00	1308.19	9.09	1308.91	1306.78	8.59	43.22	440.00	9320.00	883.00	10203.00
6885.91	* 28.040	25000.00	1309.51	5.91	1309.80	1307.67	6.17	24.32	500.00	8283.72	2344.96	10854.48
4521.68	28.040	25000.00	1310.25	6.65	1310.84	1308.32	7.71	31.67	500.00	9480.00	960.00	10440.00
6907.82	28.120	25000.00	1310.69	6.09	1311.39	1309.88	9.53	46.11	450.00	8712.61	1908.06	10913.64
4531.67	28.120	25000.00	1311.63	7.03	1312.59	1310.12	10.08	42.54	450.00	9600.00	970.00	10570.00
6926.62	28.210	25000.00	1312.36	7.96	1312.95	1310.77	7.61	23.81	480.00	9247.02	1504.22	10888.52
4542.25	28.210	25000.00	1313.28	8.88	1314.11	1311.11	8.34	24.32	480.00	9700.00	950.00	10650.00
6942.96	28.310	25000.00	1313.63	7.73	1314.34	1312.55	8.94	33.36	490.00	9561.35	1448.44	11009.78
4553.18	28.310	25000.00	1314.60	8.70	1315.37	1312.98	8.79	27.08	490.00	9710.00	1010.00	10720.00
6958.62	28.390	25000.00	1315.03	8.33	1315.62	1313.50	8.26	26.52	435.00	9779.62	1726.82	11506.44
4562.42	28.390	25000.00	1315.73	9.03	1316.65	1313.66	9.40	30.46	435.00	9870.00	860.00	10730.00
6972.87	28.450	25000.00	1315.94	9.24	1317.02	1314.89	9.86	43.14	320.00	9935.73	1147.67	11083.40
4568.89	28.450	25000.00	1316.64	9.94	1318.15	1315.04	10.72	44.89	320.00	9936.00	504.00	10440.00
6981.92	28.520	25000.00	1317.43	10.33	1318.30	1315.63	8.88	28.63	360.00	9955.87	1043.43	10999.30
4572.60	28.520	25000.00	1318.31	11.21	1319.42	1315.43	9.28	27.13	360.00	9956.00	394.00	10350.00
6990.46	28.580	25000.00	1318.32	9.32	1319.21	1316.36	8.24	24.89	340.00	9953.92	1144.81	11098.73
4575.65	28.580	25000.00	1319.23	10.23	1320.26	1316.13	8.39	22.20	340.00	9954.00	386.00	10340.00
7000.75	28.670	25000.00	1319.51	8.01	1320.62	1318.69	10.03	38.97	460.00	9950.49	1186.25	11173.23
4579.35	28.670	25000.00	1320.13	8.63	1321.81	1318.38	11.18	43.45	460.00	9950.00	350.00	10300.00
7010.51	28.760	25000.00	1321.06	8.56	1322.34	1320.26	9.85	37.51	475.00	9920.06	1215.71	11322.31
4582.83	28.760	25000.00	1322.05	9.55	1323.55	1319.81	10.00	32.84	475.00	9917.88	342.12	10260.00
7021.66	28.860	25000.00	1323.02	9.92	1324.30	1322.76	10.38	46.24	515.00	9911.52	1559.51	11800.58
4587.06	28.860	25000.00	1323.95	10.85	1325.28	1322.43	10.06	36.96	515.00	9912.00	488.00	10400.00
7035.25	28.950	25000.00	1325.31	13.01	1326.09	1324.34	8.02	35.42	475.00	9945.50	1907.72	12055.97
4592.38	28.950	25000.00	1325.92	13.62	1326.91	1324.34	8.43	34.22	475.00	9946.00	654.00	10600.00
7051.68	29.040	25000.00	1326.82	9.62	1327.28	1324.72	6.35	18.71	510.00	9807.87	1968.62	11776.49
4599.59	* 29.040	25000.00	1327.53	10.33	1328.07	1324.73	6.49	17.00	510.00	9827.00	803.00	10630.00
7069.23	29.140	23000.00	1327.82	8.42	1328.24	1326.25	6.22	23.36	500.00	9590.64	1937.73	11528.37

Effective Model Output  
AGUAFRIA.OUT

29.140	23000.00	1328.41	9.01	1329.10	1326.49	7.24	27.47	500.00	9760.00	760.00	10520.00
4607.52											
29.230	23000.00	1328.95	7.55	1329.40	1327.13	6.34	27.01	475.00	9516.80	1436.82	11268.27
7085.51											
29.230	23000.00	1329.72	8.32	1330.54	1328.16	7.71	32.85	475.00	9720.00	732.72	10452.72
4615.37											

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TWA	SECNO	Q	CWSEL	DEPTH	EG	CRWS	VCH	10*KS	XLCH	SSTA	TOPWID	ENDST
*	29.300	23000.00	1330.28	7.98	1331.27	1329.90	9.08	78.53	400.00	9547.80	1216.80	10993.57
7097.34												
	29.300	23000.00	1331.23	8.93	1332.23	1330.28	8.48	51.96	400.00	9720.00	690.00	10410.00
4621.90												
*	29.390	23000.00	1332.48	7.88	1332.98	1330.44	6.18	22.32	440.00	9489.31	1147.76	10637.07
7109.02												
*	29.390	23000.00	1333.03	8.43	1333.73	1330.71	6.75	23.36	440.00	9693.00	607.00	10300.00
4628.43												
	29.470	23000.00	1333.38	9.28	1334.10	1331.59	7.35	25.65	445.00	9307.34	1049.00	10356.34
7119.88												
	29.470	23000.00	1333.97	9.87	1334.87	1331.44	7.77	25.43	445.00	9660.00	551.00	10211.00
4634.31												
	29.540	23000.00	1334.19	7.49	1335.51	1333.18	9.92	42.50	380.00	9212.90	921.29	10134.19
7128.47												
	29.540	23000.00	1334.88	8.18	1336.01	1333.07	9.08	31.48	380.00	9620.00	515.89	10135.89
4638.97												
	29.611	23000.00	1336.02	7.12	1337.47	1335.65	10.75	67.18	375.00	9302.95	807.19	10110.13
7135.13												
*	29.611	23000.00	1336.00	7.10	1338.14	1335.91	12.35	89.33	375.00	9620.00	490.00	10110.00
4643.01												
	29.624	23000.00	1336.83	8.33	1337.82	.00	8.78	38.06	70.00	9122.17	979.94	10102.12
7136.57												
*	29.624	23000.00	1337.68	9.18	1338.81	.00	8.85	32.82	70.00	9620.00	484.00	10104.00
4643.79												
	29.720	23000.00	1338.85	8.35	1339.42	1337.18	6.73	27.61	495.00	8963.76	1265.53	10229.29
7148.55												
	29.720	23000.00	1339.60	9.10	1340.19	1337.03	6.59	22.90	495.00	9560.00	665.00	10225.00
4650.11												
	29.800	23000.00	1339.98	12.28	1340.33	1335.53	5.36	14.28	460.00	9416.55	833.44	10561.43
7159.63												
	29.800	23000.00	1340.61	12.91	1340.98	1335.52	5.29	12.51	460.00	9820.00	640.00	10460.00
4657.00												
	29.890	23000.00	1340.69	11.09	1340.98	1335.68	4.49	14.72	445.00	9667.22	815.30	10678.42
7168.01												
	29.890	23000.00	1341.25	11.65	1341.64	1336.32	5.17	17.87	445.00	9870.00	630.00	10500.00
4663.46												
*	29.990	23000.00	1341.53	8.63	1342.66	1340.40	10.08	73.74	525.00	9705.79	648.86	10500.08
7176.60												
*	29.990	23000.00	1342.20	9.30	1343.67	1341.31	11.23	83.89	525.00	9850.00	477.85	10400.00
4669.93												
	30.070	23000.00	1344.36	10.36	1345.27	1342.19	8.76	42.46	450.00	9656.01	614.20	10275.61
7183.34												
*	30.070	23000.00	1345.22	11.22	1345.99	1342.12	8.03	30.99	450.00	9780.00	496.81	10276.81
4675.19												
*	30.170	23000.00	1346.14	10.54	1346.70	1342.65	6.93	18.42	520.00	9642.18	572.13	10214.31
7190.14												
	30.170	23000.00	1346.57	10.97	1347.37	1343.09	7.92	22.60	520.00	9740.00	420.00	10160.00
4680.55												
	30.260	23000.00	1347.17	8.27	1347.61	1343.91	5.88	18.15	485.00	9739.28	743.79	10613.73
7197.50												
	30.260	23000.00	1347.83	8.93	1348.38	1344.06	6.24	18.15	485.00	9748.00	512.00	10260.00
4685.74												
	30.360	23000.00	1348.23	7.03	1348.92	1346.35	7.47	32.87	515.00	9786.99	862.74	10871.91
7207.17												
	30.360	23000.00	1348.83	7.63	1349.76	1346.47	8.15	34.84	515.00	9820.00	460.00	10280.00
4691.52												
	30.460	23000.00	1349.82	8.62	1350.76	1347.90	8.20	37.87	495.00	9799.67	679.04	10875.19
7216.30												
	30.460	23000.00	1350.47	9.27	1351.44	1347.90	8.04	32.27	495.00	9814.00	416.00	10230.00
4696.56												
	30.550	21000.00	1351.58	8.18	1352.33	1348.51	7.06	25.30	500.00	9736.57	646.17	10818.21
7224.06												
	30.550	21000.00	1352.07	8.67	1352.79	1348.49	6.79	21.71	500.00	9735.65	395.25	10130.90
4701.23												

Effective Model Output  
AGUAFRIA.OUT

30.650	21000.00	1353.06	9.36	1354.34	1351.13	10.03	51.06	530.00	9781.16	443.80	10911.83
7230.57											
* 30.650	21000.00	1353.33	9.63	1354.61	1351.05	9.90	47.99	530.00	9781.00	326.69	10107.69
4705.63											

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TWA	SECNO	Q	CWSEL	DEPTH	BG	CRWS	VCH	10*KS	XLCH	SSTA	TOPWID	ENDST
7234.83	30.730	21000.00	1354.84	9.64	1356.07	1352.45	9.60	33.82	420.00	9864.07	475.04	11030.42
4708.71	30.730	21000.00	1354.99	9.79	1356.33	1352.35	9.81	34.56	420.00	9864.00	316.00	10180.00
7241.01	* 30.820	21000.00	1356.75	11.55	1357.22	1352.90	6.20	16.47	500.00	9901.41	801.24	11137.68
4712.43	30.820	21000.00	1356.94	11.74	1357.80	1353.69	7.77	25.12	500.00	9901.06	378.94	10280.00
7250.51	30.920	21000.00	1357.60	11.60	1357.97	1354.26	5.71	12.51	510.00	9853.58	782.53	10636.11
4717.50	30.920	21000.00	1358.19	12.19	1358.92	1354.87	7.30	18.84	510.00	9854.00	476.00	10330.00
7261.92	31.010	21000.00	1358.33	8.83	1358.92	1355.92	6.96	23.33	490.00	9727.07	938.71	10665.78
4724.83	31.010	21000.00	1359.20	9.70	1360.04	1356.31	7.70	24.77	490.00	9727.00	673.00	10400.00
7272.31	31.110	21000.00	1359.58	10.18	1360.31	1357.68	7.96	32.40	490.00	9871.73	883.70	10755.43
4732.63	31.110	21000.00	1360.51	11.11	1361.40	1358.90	8.33	30.29	490.00	9872.00	698.00	10570.00
7283.05	31.200	21000.00	1361.29	11.39	1361.66	1358.83	6.39	21.21	510.00	9581.75	950.93	10532.68
4740.72	31.200	21000.00	1362.23	12.33	1362.70	1359.35	6.85	20.75	510.00	9710.00	680.00	10390.00
7292.51	* 31.290	21000.00	1362.52	7.02	1363.23	1361.29	8.10	54.50	460.00	9450.00	830.37	10451.95
4747.96	* 31.290	21000.00	1363.34	7.84	1364.26	1361.82	8.71	52.44	460.00	9570.00	692.79	10300.00
7302.82	* 31.390	21000.00	1364.77	10.07	1365.16	1362.48	5.89	26.61	510.00	9513.45	914.34	10427.79
4756.65	* 31.390	21000.00	1365.59	10.89	1365.99	1362.76	5.91	22.22	510.00	9550.00	770.00	10320.00
7313.95	31.490	21000.00	1366.34	6.84	1366.81	1364.26	6.26	32.56	545.00	9471.01	840.16	10311.17
4765.97	31.490	21000.00	1366.92	7.42	1367.44	1364.60	6.47	30.11	545.00	9600.00	700.00	10300.00
7323.03	31.590	21000.00	1367.77	9.07	1368.17	1364.70	5.72	22.25	510.00	9457.39	718.38	10175.77
4773.53	31.590	21000.00	1368.36	9.66	1368.93	1365.68	6.84	27.96	510.00	9580.00	596.00	10176.00
7330.57	31.670	21000.00	1368.72	11.52	1369.08	1365.46	5.24	18.29	450.00	9463.07	733.63	10196.70
4779.87	31.670	21000.00	1369.54	12.34	1370.01	1366.46	6.01	20.33	450.00	9570.00	627.00	10197.00
7338.48	31.770	21000.00	1369.76	13.56	1370.25	1367.01	6.34	28.92	500.00	9469.30	650.44	10119.74
4786.71	31.770	21000.00	1370.67	14.47	1371.25	1367.92	7.02	29.10	500.00	9550.00	570.00	10120.00
7346.34	31.860	21000.00	1371.26	9.26	1371.73	1368.72	5.88	28.93	500.00	9580.72	692.60	10273.31
4793.44	31.860	21000.00	1372.14	10.14	1372.69	1369.38	6.42	27.81	500.00	9680.00	582.00	10262.00
7354.13	31.960	19000.00	1372.48	8.18	1373.00	1370.06	6.33	21.67	505.00	9583.92	662.96	10246.88
4799.77	31.960	19000.00	1373.29	8.99	1373.82	1370.12	6.24	18.17	505.00	9730.00	517.00	10247.00
7361.63	32.050	19000.00	1373.53	11.33	1374.12	1370.61	6.89	22.09	505.00	9461.84	644.28	10106.13
4805.21	32.050	19000.00	1374.18	11.98	1374.79	1370.63	6.81	19.42	505.00	9670.00	428.00	10098.00
7369.28	32.150	19000.00	1374.89	8.69	1375.59	1373.61	7.64	41.64	495.00	9339.83	761.57	10101.40
4810.55	* 32.150	19000.00	1375.34	9.14	1376.27	1373.92	8.35	45.04	495.00	9560.00	541.00	10101.00
7376.60	32.240	19000.00	1376.72	9.82	1377.25	1374.88	6.62	32.34	475.00	9346.47	713.63	10060.10

Effective Model Output  
AGUAFRIA.OUT

32.240 19000.00 1377.37 10.47 1378.02 1375.36 7.05 31.82 475.00 9500.00 560.64 10060.64  
4816.16

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TWA	SECNO	Q	CWSEL	DEPTH	BG	CRIWS	VCH	10*KS	XLCH	SSTA	TOPWID	ENDST
7384.56	32.340	19000.00	1378.49	10.29	1379.04	1376.49	5.69	37.31	540.00	9408.16	640.78	10048.95
4822.59	32.340	19000.00	1379.18	10.98	1379.81	1376.98	6.19	37.37	540.00	9530.00	522.23	10052.23
7391.84	* 32.430	19000.00	1379.70	15.90	1380.00	1375.54	3.61	10.52	460.00	9494.57	604.69	10099.26
4828.49	* 32.430	19000.00	1380.53	16.73	1380.89	1376.34	4.36	13.21	460.00	9600.00	502.34	10102.34
7398.29	* 32.520	19000.00	1380.32	8.32	1380.89	1377.39	6.29	27.21	480.00	9714.69	520.08	10272.92
4834.06	32.520	19000.00	1381.27	9.27	1381.79	1377.75	6.23	23.13	480.00	9760.00	485.89	10273.00
7401.54	32.580	19000.00	1381.12	10.62	1381.85	1377.27	7.02	29.30	325.00	9840.81	367.41	10411.73
4837.43	32.580	19000.00	1381.93	11.43	1382.52	1377.27	6.35	21.21	325.00	9841.00	449.33	10412.00
7404.05	32.640	19000.00	1382.02	15.82	1382.59	1377.09	6.06	22.36	310.00	9883.67	393.37	10501.27
4840.17	32.640	19000.00	1382.59	16.39	1383.09	1377.09	5.66	18.06	310.00	9882.91	399.90	10501.00
7406.93	32.720	19000.00	1382.59	18.79	1383.70	1378.07	9.04	30.98	420.00	9616.99	297.50	10453.21
4843.15	32.720	19000.00	1383.03	19.23	1384.03	1378.18	8.60	27.20	420.00	9617.00	311.33	10453.00
7409.68	32.790	19000.00	1383.75	16.55	1385.01	1378.94	9.17	35.02	380.00	9700.09	312.83	10319.67
4846.00	32.790	19000.00	1384.05	16.85	1385.21	1378.94	8.86	31.99	380.00	9700.00	319.82	10320.00
7413.12	* 32.860	19000.00	1385.51	10.61	1387.21	1384.87	11.07	98.52	380.00	9806.95	432.33	10331.70
4849.54	* 32.860	19000.00	1385.64	10.74	1387.24	1384.87	10.76	91.31	380.00	9807.00	444.45	10332.00
7415.80	32.920	19000.00	1388.40	7.40	1390.20	1387.46	11.01	92.91	310.00	9875.99	304.01	10180.00
4852.27	32.920	19000.00	1388.36	7.36	1390.19	1387.46	11.07	94.45	310.00	9876.07	303.93	10180.00
7417.69	32.979	19000.00	1391.12	11.42	1393.73	1390.50	13.35	118.36	315.00	9857.21	218.94	10076.15
4854.17	32.979	19000.00	1391.13	11.43	1393.74	1390.50	13.33	117.98	315.00	9857.19	219.01	10076.20
7417.85	32.984	19000.00	1391.39	12.98	1394.15	1390.95	13.34	150.07	28.00	9824.22	257.69	10081.91
4854.32	32.984	19000.00	1391.44	13.04	1394.12	1391.05	13.16	145.21	28.00	9824.00	258.00	10082.00
7418.12	* 32.993	19000.00	1392.97	14.57	1394.72	1390.95	10.17	76.15	45.00	9817.15	275.10	10092.25
4854.59	32.993	19000.00	1392.97	14.57	1394.68	1391.03	10.10	75.06	45.00	9817.14	275.12	10092.26
7418.29	32.998	19000.00	1393.16	11.76	1394.94	1391.65	10.73	81.30	27.00	9842.60	265.57	10108.17
4854.76	32.998	19000.00	1393.12	11.72	1394.92	1391.65	10.79	82.96	27.00	9842.69	265.37	10108.06
7420.49	* 33.060	19000.00	1395.52	12.42	1396.08	1390.31	5.14	17.79	320.00	9729.10	357.74	10086.84
4856.97	* 33.060	19000.00	1395.51	12.41	1396.07	1390.31	5.15	17.85	320.00	9729.12	357.68	10086.79
7423.58	* 33.120	19000.00	1396.19	11.99	1396.37	1389.28	3.22	5.26	320.00	9540.60	563.05	10103.65
4859.82	* 33.120	19000.00	1396.18	11.98	1396.41	1389.59	3.70	6.97	320.00	9600.00	490.00	10090.00
7428.06	33.190	19000.00	1396.38	10.58	1396.60	1391.75	3.79	9.66	350.00	9343.36	677.50	10020.86
4863.73	* 33.190	19000.00	1396.43	10.63	1396.74	1392.36	4.62	14.24	350.00	9440.00	580.97	10020.97
7431.86	* 33.250	19000.00	1396.43	11.23	1397.47	1394.62	8.62	60.96	315.00	9700.00	385.96	10085.96
4867.56	* 33.250	19000.00	1396.88	11.68	1397.47	1394.16	6.52	32.78	315.00	9600.00	489.45	10089.45

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TWA	SECNO	Q	CWSEL	DEPTH	EG	CRWS	VCH	10*KS	XLCH	SSTA	TOPWID	ENDST
	33.290	19000.00	1397.73	17.43	1398.97	1395.69	9.14	65.15	235.00	9750.00	306.49	10056.49
7433.67												
*	33.290	19000.00	1397.47	17.17	1398.71	1395.55	9.18	68.45	235.00	9740.00	315.62	10055.62
4869.64												
*	33.300	19000.00	1398.61	18.21	1399.18	1391.29	6.08	16.21	50.00	9695.95	388.98	10084.93
7434.06												
*	33.300	19000.00	1398.32	17.92	1398.93	1391.29	6.27	17.69	50.00	9786.00	297.60	10083.60
4869.99												
	33.360	19000.00	1399.10	17.20	1399.76	1393.30	6.97	20.30	305.00	9909.28	374.69	10338.56
7436.63												
	33.360	19000.00	1398.86	16.96	1399.55	1393.30	7.15	21.71	305.00	9910.05	358.04	10327.00
4872.26												
	33.410	19000.00	1399.74	12.84	1400.49	1395.03	6.97	31.48	275.00	9966.41	316.18	10282.59
7438.95												
	33.410	19000.00	1399.54	12.64	1400.33	1395.07	7.13	33.52	275.00	9966.91	313.41	10280.32
4874.51												
	33.460	9000.00	1400.77	18.87	1400.89	1389.02	2.83	3.78	275.00	9898.35	342.06	10240.41
7441.08												
	33.460	9000.00	1400.63	18.73	1400.75	1389.02	2.86	3.94	275.00	9898.87	331.13	10230.00
4876.58												
	33.540	9000.00	1400.93	16.53	1401.10	1391.71	3.31	6.39	400.00	9881.08	292.05	10173.14
7444.00												
	33.540	9000.00	1400.79	16.39	1400.97	1391.71	3.36	6.66	400.00	9881.83	290.52	10172.35
4879.44												
	33.630	9000.00	1401.28	17.28	1401.59	1393.78	4.49	12.83	510.00	9889.80	228.18	10117.98
7447.04												
	33.630	9000.00	1401.16	17.16	1401.48	1393.78	4.55	13.30	510.00	9890.60	226.57	10117.17
4882.47												
*	33.730	9000.00	1402.02	11.52	1402.56	1398.96	6.20	28.91	490.00	9801.91	281.98	10151.23
7449.92												
*	33.730	9000.00	1401.93	11.43	1402.53	1398.92	6.50	32.20	490.00	9803.00	238.71	10110.00
4885.09												
	33.820	9000.00	1403.11	15.71	1403.58	1395.32	5.51	15.02	500.00	9706.15	170.17	10061.22
7452.51												
*	33.820	9000.00	1403.13	15.73	1403.60	1395.31	5.50	14.94	500.00	9708.00	168.67	10061.27
4887.43												

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SUMMARY OF ERRORS AND SPECIAL NOTES

WARNING SECNO=	1.480	PROFILE=	1	CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE
WARNING SECNO=	1.480	PROFILE=	2	CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE
WARNING SECNO=	1.560	PROFILE=	1	CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE
WARNING SECNO=	1.560	PROFILE=	2	CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE
CAUTION SECNO=	3.400	PROFILE=	1	CRITICAL DEPTH ASSUMED
CAUTION SECNO=	3.400	PROFILE=	1	MINIMUM SPECIFIC ENERGY
CAUTION SECNO=	3.400	PROFILE=	2	CRITICAL DEPTH ASSUMED
CAUTION SECNO=	3.400	PROFILE=	2	MINIMUM SPECIFIC ENERGY
WARNING SECNO=	3.430	PROFILE=	1	CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE
WARNING SECNO=	3.430	PROFILE=	2	CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE
WARNING SECNO=	3.729	PROFILE=	1	CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE
WARNING SECNO=	3.729	PROFILE=	2	CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE
WARNING SECNO=	3.767	PROFILE=	1	CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE
WARNING SECNO=	3.767	PROFILE=	2	CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE
WARNING SECNO=	3.780	PROFILE=	1	CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE
WARNING SECNO=	3.780	PROFILE=	2	CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE
CAUTION SECNO=	4.094	PROFILE=	1	CRITICAL DEPTH ASSUMED
CAUTION SECNO=	4.094	PROFILE=	1	MINIMUM SPECIFIC ENERGY
CAUTION SECNO=	4.094	PROFILE=	2	CRITICAL DEPTH ASSUMED
CAUTION SECNO=	4.094	PROFILE=	2	MINIMUM SPECIFIC ENERGY
WARNING SECNO=	4.160	PROFILE=	1	CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE
WARNING SECNO=	4.160	PROFILE=	2	CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE
WARNING SECNO=	4.790	PROFILE=	1	CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE
WARNING SECNO=	4.790	PROFILE=	2	CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE

CAUTION SECNO= 5.203 PROFILE= 1 CRITICAL DEPTH ASSUMED  
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 CAUTION SECNO= 5.203 PROFILE= 2 CRITICAL DEPTH ASSUMED  
 CAUTION SECNO= 5.203 PROFILE= 2 MINIMUM SPECIFIC ENERGY  
 WARNING SECNO= 5.250 PROFILE= 1 CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE  
 WARNING SECNO= 5.250 PROFILE= 2 CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE  
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 WARNING SECNO= 6.770 PROFILE= 2 CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE

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WARNING SECNO= 6.890 PROFILE= 1 CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE  
 WARNING SECNO= 6.890 PROFILE= 2 CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE  
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 WARNING SECNO= 8.992 PROFILE= 2 CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE  
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WARNING SECNO= 13.450 PROFILE= 2 CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE  
 WARNING SECNO= 13.518 PROFILE= 1 CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE  
 WARNING SECNO= 13.518 PROFILE= 2 CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE  
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 WARNING SECNO= 14.905 PROFILE= 1 CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE  
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 WARNING SECNO= 15.469 PROFILE= 2 CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE  
 CAUTION SECNO= 16.385 PROFILE= 1 CRITICAL DEPTH ASSUMED  
 CAUTION SECNO= 16.385 PROFILE= 1 MINIMUM SPECIFIC ENERGY  
 CAUTION SECNO= 16.385 PROFILE= 2 CRITICAL DEPTH ASSUMED  
 CAUTION SECNO= 16.385 PROFILE= 2 MINIMUM SPECIFIC ENERGY  
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 WARNING SECNO= 16.471 PROFILE= 2 CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE  
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 WARNING SECNO= 17.277 PROFILE= 2 CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE

WARNING SECNO= 17.548 PROFILE= 1 CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE  
WARNING SECNO= 17.548 PROFILE= 2 CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE  
  
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CAUTION SECNO= 17.638 PROFILE= 2 CRITICAL DEPTH ASSUMED  
CAUTION SECNO= 17.638 PROFILE= 2 MINIMUM SPECIFIC ENERGY  
  
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WARNING SECNO= 17.730 PROFILE= 2 CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE  
  
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WARNING SECNO= 17.821 PROFILE= 2 CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE  
  
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WARNING SECNO= 17.910 PROFILE= 2 CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE  
  
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WARNING SECNO= 21.245 PROFILE= 1 CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE

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WARNING SECNO= 21.245 PROFILE= 2 CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE  
  
WARNING SECNO= 21.337 PROFILE= 1 CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE  
WARNING SECNO= 21.337 PROFILE= 2 CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE  
  
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WARNING SECNO= 21.431 PROFILE= 2 CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE  
  
WARNING SECNO= 21.524 PROFILE= 1 CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE  
WARNING SECNO= 21.524 PROFILE= 2 CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE  
  
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WARNING SECNO= 21.621 PROFILE= 2 CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE  
  
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WARNING SECNO= 21.716 PROFILE= 2 CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE  
  
WARNING SECNO= 22.082 PROFILE= 1 CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE  
  
WARNING SECNO= 22.177 PROFILE= 1 CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE  
  
WARNING SECNO= 22.558 PROFILE= 1 CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE  
WARNING SECNO= 22.558 PROFILE= 2 CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE  
  
WARNING SECNO= 22.651 PROFILE= 1 CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE  
WARNING SECNO= 22.651 PROFILE= 2 CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE  
  
WARNING SECNO= 23.692 PROFILE= 2 CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE  
  
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CAUTION SECNO= 25.720 PROFILE= 1 MINIMUM SPECIFIC ENERGY  
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WARNING SECNO= 26.030 PROFILE= 2 CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE  
  
WARNING SECNO= 26.200 PROFILE= 1 CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE  
WARNING SECNO= 26.200 PROFILE= 2 CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE  
  
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WARNING SECNO= 26.940 PROFILE= 1 CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE  
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 WARNING SECNO= 32.860 PROFILE= 2 CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE

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WARNING SECNO= 32.993 PROFILE= 1 CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE  
 WARNING SECNO= 33.060 PROFILE= 1 CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE  
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 WARNING SECNO= 33.730 PROFILE= 2 CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE  
 WARNING SECNO= 33.820 PROFILE= 2 CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE

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FLOODWAY DATA, EAR EVENT EXISTING CO  
 PROFILE NO. 2

STATION	FLOODWAY			WATER SURFACE ELEVATION		
	WIDTH	SECTION AREA	MEAN VELOCITY	WITH FLOODWAY	WITHOUT FLOODWAY	DIFFERENCE
.160	2300.	9911.	5.1	917.3	916.6	.7
.250	2350.	10610.	4.8	918.8	918.1	.7
.350	2560.	12213.	4.2	920.4	919.6	.8
.440	2670.	12439.	4.1	921.8	920.9	.9
.540	2620.	12420.	4.1	922.9	922.0	.9
.630	2470.	11058.	4.6	924.1	923.3	.8
.730	2300.	11634.	4.4	925.5	924.7	.8
.830	2167.	10598.	4.8	926.5	925.9	.6
.920	2030.	9554.	5.3	927.6	926.9	.7

1.010	1950.	10022.	5.1	928.7	927.8	.9
1.100	1770.	9559.	5.3	929.6	928.8	.8
1.170	1620.	8054.	6.3	930.6	929.8	.8
1.250	1500.	6899.	7.4	931.9	931.0	.9
1.330	1617.	8160.	6.2	933.8	933.0	.8
1.400	1756.	7637.	6.7	935.1	934.2	.9
1.480	1910.	9906.	5.1	936.7	936.0	.7
1.560	1839.	12618.	4.0	937.4	936.6	.8
1.640	1952.	12869.	4.0	937.7	936.8	.9
1.710	1935.	11464.	4.4	938.0	937.2	.8
1.790	1993.	10796.	4.7	938.5	937.6	.9
1.870	1861.	9230.	5.5	938.9	938.2	.7
1.940	1849.	9343.	5.4	939.8	939.3	.5
2.020	1661.	8130.	6.3	940.6	940.1	.5
2.100	1519.	7850.	6.5	941.6	940.8	.8
2.180	1480.	8395.	6.1	942.5	941.7	.8
2.250	1359.	7376.	6.9	943.5	942.7	.8
2.330	1349.	8113.	6.3	944.8	944.0	.8
2.410	1610.	8731.	5.8	945.8	944.9	.9
2.510	1504.	8871.	5.7	946.9	946.1	.8
2.600	1844.	9861.	5.2	947.8	947.1	.7
2.700	2050.	10930.	4.7	948.7	948.2	.5
2.800	2049.	11578.	4.4	949.3	948.9	.4
2.890	2048.	11125.	4.6	949.8	949.5	.3
2.990	1923.	11322.	4.5	950.5	950.2	.3
3.080	1867.	12001.	4.2	951.0	950.7	.3
3.180	1650.	9859.	5.2	951.4	951.2	.2
3.270	1428.	8551.	6.0	952.1	952.0	.1
3.370	1202.	7943.	6.4	953.0	952.9	.1
3.400	1184.	4444.	11.5	952.7	952.8	-.1
3.430	1157.	6739.	7.6	954.8	954.8	.0
3.470	1147.	6892.	7.4	955.4	955.4	.0
3.550	1133.	6453.	7.9	956.4	956.4	.0

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FLOODWAY DATA, EAR EVENT EXISTING CO  
PROFILE NO. 2

STATION	WIDTH	FLOODWAY SECTION AREA	MEAN VELOCITY	WATER SURFACE ELEVATION		
				WITH FLOODWAY	WITHOUT FLOODWAY	DIFFERENCE
3.640	819.	5429.	9.4	957.9	957.8	.1
3.690	1030.	5408.	9.4	959.0	959.0	.0
3.729	1174.	9727.	5.2	960.5	960.5	.0
3.734	1185.	8852.	5.8	960.5	960.5	.0
3.747	1185.	8981.	5.7	960.6	960.6	.0
3.757	1111.	9370.	5.4	960.7	960.7	.0
3.767	1118.	7224.	7.0	960.6	960.6	.0
3.770	1118.	7294.	7.0	960.7	960.7	.0
3.780	1110.	8761.	5.9	961.0	961.0	.0
3.800	1123.	8725.	6.0	961.1	961.1	.0
3.810	1110.	7747.	6.7	961.1	961.1	.0
3.830	1135.	9016.	5.8	961.4	961.4	.0
3.930	1112.	8522.	6.1	961.8	961.8	.0
4.020	1112.	8969.	5.8	962.4	962.4	.0
4.040	1111.	7643.	6.8	962.3	962.3	.0
4.060	1112.	8418.	6.2	962.6	962.6	.0
4.092	1112.	8364.	6.2	962.8	962.8	.0
4.094	1106.	4514.	11.5	962.6	962.6	.0
4.160	1120.	7669.	6.8	965.0	965.0	.0
4.260	1113.	7530.	6.9	965.8	965.8	.0
4.270	1115.	7317.	7.1	965.9	965.9	.0
4.300	1113.	8127.	6.4	966.2	966.2	.0
4.390	1119.	8391.	6.2	966.8	966.8	.0
4.480	1118.	8893.	5.8	967.3	967.3	.0
4.500	1112.	8374.	6.2	967.4	967.4	.0
4.520	1107.	8872.	5.9	967.6	967.6	.0
4.600	1111.	9008.	5.8	967.9	967.9	.0
4.700	1107.	8580.	6.1	968.4	968.4	.0
4.754	1124.	8352.	6.2	968.6	968.6	.0
4.759	1124.	8468.	6.1	968.7	968.7	.0
4.790	1115.	6687.	7.8	968.7	968.7	.0
4.890	1170.	7273.	7.1	969.9	969.9	.0
4.980	1251.	8198.	6.3	970.9	970.9	.0
5.000	1264.	8053.	6.5	971.0	971.0	.0
5.020	1282.	7891.	6.6	971.1	971.1	.0
5.100	1345.	6891.	7.5	971.8	971.8	.0
5.150	1389.	5712.	9.1	972.5	972.5	.0
5.201	1392.	6680.	7.8	973.9	973.9	.0
5.203	1389.	4876.	10.7	973.5	973.5	.0
5.250	1378.	6165.	8.4	975.6	975.6	.0
5.270	1330.	5734.	9.1	976.0	976.0	.0
5.290	1386.	7030.	7.4	976.9	976.9	.0

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FLOODWAY DATA, EAR EVENT EXISTING CO  
PROFILE NO. 2

STATION	WIDTH	FLOODWAY SECTION AREA	MEAN VELOCITY	WATER SURFACE ELEVATION		
				WITH FLOODWAY	WITHOUT FLOODWAY	DIFFERENCE
5.305	1387.	7315.	7.1	977.2	977.2	.0
5.317	1387.	7202.	7.6	977.3	977.3	.0
5.328	1387.	7518.	7.2	977.5	977.5	.0
5.380	1292.	6919.	7.9	978.2	978.2	.0
5.480	1256.	7613.	7.1	979.6	979.6	.0
5.510	1235.	6353.	8.6	979.7	979.7	.0
5.540	1209.	6755.	8.1	980.2	980.2	.0
5.650	1127.	7882.	6.9	981.6	981.6	.0
5.689	1152.	8812.	6.2	982.1	982.1	.0
5.700	1153.	8891.	6.1	982.1	982.1	.0
5.750	1119.	8113.	6.7	982.4	982.4	.0
5.770	1124.	8082.	6.7	982.6	982.6	.0
5.790	1114.	6574.	8.3	982.6	982.6	.0
5.810	1111.	8071.	6.7	983.3	983.3	.0
5.900	1113.	7701.	7.1	984.0	984.0	.0
5.990	1110.	7700.	7.1	984.7	984.7	.0
6.070	1112.	7853.	6.9	985.4	985.4	.0
6.160	1115.	7629.	7.1	986.1	986.1	.0
6.260	1116.	6806.	8.0	986.9	986.9	.0
6.350	1095.	7057.	7.7	988.1	988.1	.0
6.430	1067.	6188.	8.8	989.0	989.0	.0
6.520	1095.	8177.	6.7	990.4	990.4	.0
6.540	1100.	6634.	8.2	990.3	990.3	.0
6.560	1108.	7906.	6.9	990.8	990.8	.0
6.590	1112.	8704.	6.3	991.1	991.1	.0
6.610	1114.	7156.	7.6	991.0	991.0	.0
6.640	1112.	8182.	6.6	991.5	991.5	.0
6.660	1112.	7434.	7.3	991.6	991.6	.0
6.690	1113.	8436.	6.4	992.0	992.0	.0
6.710	1111.	8414.	6.5	992.1	992.1	.0
6.730	1112.	8908.	6.1	992.3	992.3	.0
6.770	1103.	5010.	10.9	991.9	991.9	.0
6.790	1104.	5886.	9.2	992.9	992.9	.0
6.820	1106.	7359.	7.4	993.7	993.7	.0
6.890	1110.	5071.	10.7	994.2	994.2	.0
6.910	1125.	5037.	10.8	994.8	994.8	.0
6.930	1132.	6916.	7.9	996.1	996.1	.0
6.970	1143.	6931.	7.8	996.6	996.6	.0
6.990	1130.	5603.	9.7	996.6	996.6	.0
7.020	1115.	7493.	7.3	997.6	997.6	.0
7.060	1093.	7090.	7.7	998.0	998.0	.0
7.080	1088.	6503.	8.4	998.1	998.1	.0

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FLOODWAY DATA, EAR EVENT EXISTING CO  
PROFILE NO. 2

STATION	WIDTH	FLOODWAY SECTION AREA	MEAN VELOCITY	WATER SURFACE ELEVATION		
				WITH FLOODWAY	WITHOUT FLOODWAY	DIFFERENCE
7.100	1082.	6251.	8.7	998.3	998.3	.0
7.200	1063.	7770.	7.0	999.8	999.8	.0
7.290	1022.	6508.	8.4	1000.5	1000.5	.0
7.390	1002.	7106.	7.7	1001.7	1001.7	.0
7.490	980.	6846.	7.9	1002.6	1002.6	.0
7.580	966.	7454.	7.3	1003.6	1003.6	.0
7.670	1010.	9607.	5.7	1004.4	1004.4	.0
7.770	1032.	8204.	6.6	1004.7	1004.7	.0
7.870	1114.	8246.	6.6	1005.3	1005.3	.0
7.960	1315.	9309.	5.8	1006.0	1006.0	.0
7.990	1386.	9569.	5.7	1006.2	1006.2	.0
8.000	1462.	8641.	6.3	1006.2	1006.2	.0
8.010	1462.	8819.	6.2	1006.3	1006.3	.0
8.030	1436.	7048.	7.7	1006.2	1006.2	.0
8.105	1501.	8089.	6.7	1007.4	1007.4	.0
8.198	1493.	7966.	6.8	1008.4	1008.3	.1
8.325	1507.	7593.	7.2	1010.0	1010.0	.0
8.433	1725.	6087.	8.9	1012.1	1012.0	.1
8.534	1955.	8660.	6.3	1015.1	1014.4	.7
8.646	1940.	9853.	5.5	1016.6	1015.7	.9
8.768	1830.	8055.	6.8	1018.2	1017.3	.9
8.875	1770.	7808.	7.0	1020.0	1019.5	.5
8.992	1695.	10192.	5.3	1021.8	1021.3	.5
9.098	1739.	11036.	4.9	1022.6	1022.2	.4
9.177	1695.	10173.	5.3	1023.1	1022.8	.3
9.191	1688.	10367.	5.2	1023.2	1022.9	.3
9.198	1694.	9884.	5.5	1023.2	1022.9	.3
9.266	1895.	10094.	5.4	1023.8	1023.7	.1
9.343	1852.	9435.	5.8	1024.5	1024.4	.1
9.435	1594.	8993.	6.0	1025.5	1025.4	.1
9.519	1660.	8492.	6.4	1026.4	1026.3	.1

9.605	1630.	8505.	6.4	1027.5	1027.4	.1
9.696	1510.	7156.	7.6	1028.7	1028.7	.0
9.790	1399.	7728.	3.9	1030.5	1029.6	.9
9.885	1396.	5798.	5.2	1031.0	1030.4	.6
9.981	1306.	5544.	5.4	1032.1	1031.7	.4
10.071	1231.	5360.	5.6	1033.2	1032.8	.4
10.167	990.	5717.	5.2	1034.2	1033.8	.4
10.265	740.	3639.	8.2	1034.8	1034.5	.3
10.343	590.	3638.	8.2	1036.7	1036.6	.1
10.442	749.	4886.	6.1	1039.1	1038.5	.6
10.538	940.	6654.	4.5	1040.4	1039.7	.7

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FLOODWAY DATA, EAR EVENT EXISTING CO  
PROFILE NO. 2

STATION	WIDTH	FLOODWAY SECTION AREA	MEAN VELOCITY	WATER SURFACE ELEVATION		
				WITH FLOODWAY	WITHOUT FLOODWAY	DIFFERENCE
10.632	985.	6513.	4.6	1041.1	1040.5	.6
10.752	847.	5065.	5.9	1042.1	1041.8	.3
10.846	730.	4884.	6.1	1043.4	1043.2	.2
10.942	810.	5886.	5.1	1044.5	1044.3	.2
11.029	919.	6446.	4.7	1045.3	1045.1	.2
11.128	895.	6062.	4.9	1046.2	1046.0	.2
11.224	812.	5451.	5.5	1047.0	1046.8	.2
11.325	620.	2998.	10.0	1048.3	1048.3	.0
11.410	577.	4182.	7.2	1051.7	1051.7	.0
11.428	567.	3423.	8.8	1051.8	1051.8	.0
11.460	664.	3609.	9.6	1052.3	1052.3	.0
11.557	892.	5128.	6.7	1054.4	1054.4	.0
11.653	1321.	7721.	4.5	1057.5	1057.2	.3
11.750	1738.	6858.	5.0	1058.9	1058.5	.4
11.847	2149.	10427.	3.3	1061.1	1060.9	.2
11.900	2408.	6640.	5.2	1061.4	1061.1	.3
11.943	2473.	11667.	3.0	1063.1	1062.7	.4
12.042	2709.	17026.	2.0	1064.5	1064.0	.5
12.141	2875.	19591.	1.8	1065.3	1064.6	.7
12.247	2786.	21039.	1.6	1066.0	1065.2	.8
12.359	2500.	19757.	1.7	1066.4	1065.6	.8
12.420	2350.	14877.	2.3	1066.6	1065.7	.9
12.470	2300.	11248.	3.1	1066.7	1065.8	.9
12.529	2192.	10013.	3.4	1066.8	1066.0	.8
12.630	938.	6621.	5.2	1067.0	1066.3	.7
12.725	878.	5842.	5.9	1067.5	1066.7	.8
12.816	703.	4849.	7.1	1068.2	1067.6	.6
12.913	590.	4098.	8.4	1069.3	1069.0	.3
13.007	441.	3297.	10.5	1070.5	1070.4	.1
13.103	495.	4464.	7.7	1072.7	1072.7	.0
13.200	551.	5555.	6.2	1073.7	1073.6	.1
13.296	743.	6535.	5.3	1074.3	1074.2	.1
13.395	1099.	5609.	6.2	1074.8	1074.7	.1
13.450	1385.	8159.	4.2	1075.6	1075.5	.1
13.467	1420.	7897.	4.4	1075.7	1075.6	.1
13.518	1460.	4865.	7.1	1075.9	1075.9	.0
13.565	1431.	5190.	6.6	1077.3	1077.2	.1
13.663	1334.	5387.	6.4	1079.4	1079.2	.2
13.760	1207.	5513.	6.3	1081.2	1080.9	.3
13.856	1040.	5776.	6.0	1082.5	1082.2	.3
13.952	984.	4556.	7.6	1083.7	1083.5	.2
14.049	1030.	4856.	7.1	1085.8	1085.8	.0

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FLOODWAY DATA, EAR EVENT EXISTING CO  
PROFILE NO. 2

STATION	WIDTH	FLOODWAY SECTION AREA	MEAN VELOCITY	WATER SURFACE ELEVATION		
				WITH FLOODWAY	WITHOUT FLOODWAY	DIFFERENCE
14.145	1170.	5947.	5.8	1087.6	1087.5	.1
14.240	1267.	5590.	6.2	1088.7	1088.6	.1
14.335	1350.	5474.	6.3	1090.2	1089.9	.3
14.430	1347.	5577.	6.2	1091.8	1091.4	.4
14.525	1364.	6635.	5.2	1093.2	1092.7	.5
14.619	1474.	5367.	6.4	1094.2	1093.8	.4
14.708	1730.	5339.	6.5	1095.8	1095.7	.1
14.809	780.	4609.	7.5	1097.4	1097.1	.3
14.905	830.	5541.	6.2	1098.8	1098.6	.2
15.000	840.	4681.	7.4	1099.8	1099.4	.4
15.094	860.	5387.	6.4	1101.2	1100.5	.7
15.188	795.	4451.	7.8	1102.1	1101.3	.8
15.281	710.	3940.	8.8	1103.4	1102.9	.5
15.374	558.	3364.	10.3	1105.0	1104.3	.7

15.469	621.	4983.	6.9	1107.7	1106.9	.8
15.564	661.	5174.	6.7	1108.7	1107.9	.8
15.658	670.	5087.	6.8	1109.7	1109.1	.6
15.719	668.	5078.	6.8	1110.3	1109.8	.5
15.814	654.	4361.	7.9	1110.9	1110.6	.3
15.909	709.	5553.	6.2	1112.2	1112.1	.1
16.004	803.	6622.	5.2	1113.0	1112.9	.1
16.099	667.	5098.	6.8	1113.3	1113.3	.0
16.195	427.	4059.	8.5	1114.0	1113.7	.3
16.289	399.	4008.	8.6	1115.0	1114.7	.3
16.385	398.	2416.	14.3	1115.5	1115.6	-.1
16.471	441.	4134.	8.7	1119.3	1119.1	.2
16.482	454.	4648.	7.7	1119.8	1119.6	.2
16.506	461.	4606.	7.8	1120.0	1119.8	.2
16.514	427.	3867.	9.3	1119.9	1119.7	.2
16.518	435.	4248.	8.5	1120.9	1120.8	.1
16.612	387.	4178.	8.6	1122.0	1121.9	.1
16.707	384.	4274.	8.4	1123.1	1123.1	.0
16.801	368.	4413.	8.2	1124.2	1124.2	.0
16.895	374.	4388.	8.2	1125.1	1125.0	.1
16.990	344.	4120.	8.7	1125.9	1125.9	.0
17.085	410.	4393.	8.2	1127.0	1127.0	.0
17.180	476.	4480.	8.0	1128.1	1128.1	.0
17.277	705.	7431.	4.8	1129.5	1129.5	.0
17.370	825.	7868.	4.6	1130.0	1129.8	.2
17.458	970.	7670.	4.7	1130.4	1130.1	.3
17.548	989.	6140.	5.9	1131.0	1130.6	.4
17.638	1037.	3579.	10.5	1134.2	1133.9	.3

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FLOODWAY DATA, EAR EVENT EXISTING CO  
PROFILE NO. 2

STATION	WIDTH	FLOODWAY SECTION AREA	MEAN VELOCITY	WATER SURFACE ELEVATION		DIFFERENCE
				WITH FLOODWAY	WITHOUT FLOODWAY	
17.730	1030.	4976.	7.5	1138.5	1138.2	.3
17.821	885.	5418.	6.9	1140.0	1139.6	.4
17.910	1045.	7645.	4.9	1141.1	1140.5	.6
18.000	1070.	7728.	4.9	1141.6	1140.9	.7
18.093	1025.	6744.	5.6	1142.1	1141.4	.7
18.182	1020.	6170.	6.1	1142.8	1142.2	.6
18.275	1084.	6133.	6.1	1143.8	1143.4	.4
18.369	1090.	4637.	8.1	1145.3	1145.0	.3
18.464	980.	5199.	7.2	1148.1	1147.4	.7
18.558	935.	5333.	7.0	1150.0	1149.1	.9
18.653	970.	5602.	6.7	1151.5	1150.8	.7
18.748	948.	4993.	7.5	1152.8	1152.4	.4
18.839	994.	6039.	6.2	1154.1	1153.9	.2
18.937	1096.	7554.	5.0	1155.3	1155.1	.2
18.962	1066.	6860.	5.5	1155.5	1155.3	.2
18.978	1068.	6379.	5.9	1155.6	1155.4	.2
19.066	1355.	5968.	6.3	1156.8	1156.7	.1
19.162	1644.	6041.	6.2	1158.4	1158.4	.0
19.256	1850.	4564.	8.2	1160.4	1160.3	.1
19.352	2142.	7471.	5.0	1163.3	1163.0	.3
19.446	2167.	7876.	4.8	1164.5	1164.1	.4
19.542	2243.	7327.	5.1	1165.5	1165.2	.3
19.635	2238.	6894.	5.4	1166.8	1166.6	.2
19.732	2320.	6546.	5.7	1168.3	1168.0	.3
19.827	2207.	7057.	5.3	1170.1	1169.7	.4
19.920	2118.	7298.	5.1	1171.4	1171.0	.4
20.015	1818.	6409.	5.9	1172.8	1172.4	.4
20.111	1575.	6265.	6.0	1174.4	1174.0	.4
20.207	1314.	5569.	6.7	1175.8	1175.4	.4
20.294	1159.	6699.	5.6	1177.2	1176.7	.5
20.343	1250.	6269.	6.0	1177.8	1177.4	.4
20.388	1120.	5215.	7.2	1178.4	1178.0	.4
20.435	980.	4387.	8.5	1179.2	1178.9	.3
20.483	870.	4443.	8.4	1180.3	1179.9	.4
20.579	669.	4141.	9.1	1182.1	1181.4	.7
20.675	594.	4412.	8.5	1183.6	1183.0	.6
20.769	779.	5748.	6.5	1185.3	1184.4	.9
20.864	970.	5641.	6.2	1186.2	1185.3	.9
20.958	1134.	4875.	7.2	1187.1	1186.2	.9
21.061	1100.	4473.	7.8	1188.1	1187.2	.9
21.157	1125.	8023.	4.4	1189.8	1189.2	.6
21.245	1029.	5900.	5.9	1190.6	1190.2	.4

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FLOODWAY DATA, EAR EVENT EXISTING CO  
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STATION	WIDTH	FLOODWAY SECTION	MEAN	WATER SURFACE ELEVATION		DIFFERENCE
				WITH	WITHOUT	

	AREA	VELOCITY	FLOODWAY	FLOODWAY		
21.337	966.	10554.	3.3	1191.5	1191.2	.3
21.431	923.	4911.	7.1	1191.7	1191.3	.4
21.524	937.	7288.	4.8	1193.6	1193.5	.1
21.621	860.	9254.	3.8	1194.3	1194.2	.1
21.716	830.	5196.	6.7	1194.5	1194.5	.0
21.798	951.	4724.	7.4	1196.3	1196.0	.3
21.893	1114.	4792.	7.3	1198.5	1198.3	.2
21.986	1397.	6377.	5.5	1200.7	1200.6	.1
22.082	1594.	7633.	4.6	1202.0	1201.7	.3
22.177	1678.	5335.	6.6	1203.0	1202.1	.9
22.273	1650.	4965.	7.0	1204.7	1204.5	.2
22.368	2094.	7393.	4.5	1206.6	1206.6	.0
22.462	2713.	7973.	4.1	1207.6	1207.6	.0
22.558	2919.	4634.	7.1	1208.9	1208.9	.0
22.651	3069.	7565.	4.4	1211.5	1211.5	.0
22.745	3179.	6992.	4.7	1212.8	1212.8	.0
22.839	3105.	7362.	4.5	1214.3	1214.3	.0
22.935	3155.	7845.	4.2	1215.6	1215.6	.0
23.029	3010.	6330.	5.2	1217.0	1217.0	.0
23.124	2575.	6518.	5.1	1219.1	1219.1	.0
23.219	2201.	6643.	5.0	1221.0	1221.0	.0
23.314	1870.	5440.	6.1	1223.0	1223.0	.0
23.409	1420.	4826.	6.8	1225.4	1225.2	.2
23.504	1200.	5430.	6.1	1227.7	1227.1	.6
23.598	1088.	5467.	6.0	1229.2	1228.5	.7
23.692	1025.	4064.	8.1	1230.7	1230.2	.5
23.790	1005.	4787.	6.5	1233.4	1232.6	.8
23.881	1035.	4963.	6.2	1234.9	1233.9	1.0
23.974	1106.	5901.	5.3	1236.8	1236.0	.8
24.067	1640.	8345.	3.7	1238.3	1237.7	.6
24.165	1875.	8274.	3.7	1239.0	1238.5	.5
24.212	1950.	8203.	3.8	1239.3	1238.8	.5
24.260	1981.	8471.	3.7	1239.8	1239.3	.5
24.353	2028.	7929.	3.9	1240.5	1240.0	.5
24.449	1968.	5719.	5.4	1241.6	1241.3	.3
24.543	2079.	6379.	4.9	1243.7	1243.4	.3
24.631	2175.	6020.	5.1	1245.4	1245.1	.3
24.721	2228.	6596.	4.7	1247.4	1247.0	.4
24.816	2345.	6777.	4.6	1249.2	1248.7	.5
24.910	2572.	6999.	4.4	1251.0	1250.4	.6
24.996	2514.	6508.	4.8	1252.7	1252.1	.6
25.098	2369.	6195.	5.0	1255.0	1254.4	.6

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FLOODWAY DATA, BAR EVENT EXISTING CO  
PROFILE NO. 2

STATION	WIDTH	FLOODWAY SECTION AREA	MEAN VELOCITY	WATER SURFACE ELEVATION		DIFFERENCE
				WITH FLOODWAY	WITHOUT FLOODWAY	
25.192	2120.	6517.	4.4	1256.6	1256.1	.5
25.288	1973.	5059.	5.7	1258.0	1257.7	.3
25.382	1871.	5155.	5.6	1259.7	1259.6	.1
25.478	1961.	4760.	6.1	1261.3	1261.2	.1
25.526	2026.	6251.	4.6	1262.5	1262.4	.1
25.572	1370.	4409.	6.6	1262.7	1262.9	-.2
25.666	980.	4145.	7.0	1264.1	1264.0	.1
25.691	979.	4675.	6.2	1265.8	1265.5	.3
25.720	930.	3672.	7.9	1266.8	1266.4	.4
25.790	950.	5151.	5.6	1269.0	1268.4	.6
25.860	1051.	4668.	6.2	1269.6	1268.8	.8
25.940	1200.	4146.	7.0	1272.2	1271.8	.4
26.030	1520.	6654.	4.4	1275.0	1274.1	.9
26.120	1840.	7481.	3.9	1276.2	1275.2	1.0
26.200	1830.	5163.	5.6	1277.7	1276.8	.9
26.290	1680.	5865.	4.9	1279.9	1279.0	.9
26.370	1510.	6112.	4.7	1281.5	1280.6	.9
26.470	1320.	5215.	5.2	1283.0	1282.0	1.0
26.550	1130.	4783.	5.6	1284.7	1284.0	.7
26.630	990.	5621.	4.8	1286.7	1285.8	.9
26.730	980.	5991.	4.5	1287.8	1286.9	.9
26.830	996.	4397.	6.1	1288.8	1288.4	.4
26.940	904.	5152.	5.2	1290.7	1290.2	.5
27.030	796.	4984.	5.4	1291.9	1291.2	.7
27.110	1010.	5566.	4.9	1293.2	1292.7	.5
27.190	1350.	5939.	4.5	1294.5	1293.8	.7
27.300	1592.	6115.	4.4	1296.3	1295.4	.9
27.390	1670.	5741.	4.7	1297.9	1297.0	.9
27.480	1630.	5842.	4.6	1299.7	1298.7	1.0
27.580	1414.	6008.	4.5	1301.5	1300.6	.9
27.680	1171.	4546.	5.9	1303.2	1302.3	.9
27.770	1125.	4503.	6.0	1305.3	1304.5	.8
27.860	1040.	5059.	4.9	1307.1	1306.1	1.0
27.940	883.	4161.	6.0	1308.1	1307.4	.7
28.040	960.	4610.	5.4	1310.2	1309.5	.7
28.120	970.	3939.	6.3	1311.6	1310.7	.9

28.210	950.	4233.	5.9	1313.3	1312.4	.9
28.310	1010.	4588.	5.4	1314.6	1313.6	1.0
28.390	860.	4014.	6.2	1315.7	1315.0	.7
28.450	504.	2847.	8.8	1316.6	1315.9	.7
28.520	394.	3195.	7.8	1318.3	1317.4	.9
28.580	386.	3182.	7.9	1319.2	1318.3	.9

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FLOODWAY DATA, EAR EVENT EXISTING CO  
PROFILE NO. 2

STATION	WIDTH	FLOODWAY SECTION AREA	MEAN VELOCITY	WATER SURFACE ELEVATION		
				WITH FLOODWAY	WITHOUT FLOODWAY	DIFFERENCE
28.670	350.	2601.	9.6	1320.1	1319.5	.6
28.760	342.	2652.	9.4	1322.1	1321.1	1.0
28.860	488.	3071.	8.1	1323.9	1323.0	.9
28.950	654.	3467.	7.2	1325.9	1325.3	.6
29.040	803.	4756.	5.3	1327.5	1326.8	.7
29.140	760.	3807.	6.0	1328.4	1327.8	.6
29.230	733.	3490.	6.6	1329.8	1329.0	.8
29.300	690.	3043.	7.6	1331.3	1330.3	1.0
29.390	607.	3504.	6.6	1333.1	1332.5	.6
29.470	551.	3198.	7.2	1334.0	1333.4	.6
29.540	516.	3019.	7.6	1334.9	1334.2	.7
29.611	490.	2175.	10.6	1336.0	1336.0	.0
29.624	484.	2926.	7.9	1337.7	1336.8	.9
29.720	665.	4026.	5.7	1339.6	1338.9	.7
29.800	640.	4933.	4.7	1340.6	1340.0	.6
29.890	630.	4583.	5.0	1341.3	1340.7	.6
29.990	550.	2545.	9.0	1342.2	1341.5	.7
30.070	497.	3456.	6.7	1345.3	1344.4	.9
30.170	420.	3494.	6.6	1346.5	1346.1	.4
30.260	512.	3986.	5.8	1347.9	1347.2	.7
30.360	460.	3106.	7.4	1348.8	1348.2	.6
30.460	416.	2984.	7.7	1350.5	1349.8	.7
30.550	395.	3093.	6.8	1352.1	1351.6	.5
30.650	327.	2404.	8.7	1353.4	1353.1	.3
30.730	316.	2462.	8.5	1355.0	1354.8	.2
30.820	379.	2986.	7.0	1357.0	1356.8	.2
30.920	476.	3458.	6.1	1358.2	1357.6	.6
31.010	673.	3356.	6.3	1359.2	1358.3	.9
31.110	698.	3372.	6.2	1360.5	1359.6	.9
31.200	680.	4283.	4.9	1362.2	1361.3	.9
31.290	730.	2966.	7.1	1363.3	1362.5	.8
31.390	770.	4385.	4.8	1365.6	1364.8	.8
31.490	700.	3804.	5.5	1366.9	1366.3	.6
31.590	596.	3648.	5.8	1368.4	1367.8	.6
31.670	627.	4004.	5.2	1369.5	1368.7	.8
31.770	570.	3619.	5.8	1370.7	1369.8	.9
31.860	582.	3609.	5.8	1372.2	1371.3	.9
31.960	517.	3487.	5.4	1373.3	1372.5	.8
32.050	428.	3212.	5.9	1374.1	1373.5	.6
32.150	541.	2714.	7.0	1375.3	1374.9	.4
32.240	561.	3143.	6.0	1377.3	1376.7	.6
32.340	522.	2972.	6.4	1379.2	1378.5	.7

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FLOODWAY DATA, EAR EVENT EXISTING CO  
PROFILE NO. 2

STATION	WIDTH	FLOODWAY SECTION AREA	MEAN VELOCITY	WATER SURFACE ELEVATION		
				WITH FLOODWAY	WITHOUT FLOODWAY	DIFFERENCE
32.430	502.	3939.	4.8	1380.5	1379.7	.8
32.520	513.	3363.	5.6	1381.2	1380.3	.9
32.580	571.	3115.	6.1	1381.9	1381.1	.8
32.640	618.	3363.	5.6	1382.6	1382.0	.6
32.720	836.	2491.	7.6	1383.0	1382.6	.4
32.790	620.	2332.	8.1	1384.0	1383.7	.3
32.860	525.	1974.	9.6	1385.6	1385.5	.1
32.920	304.	1790.	10.6	1388.4	1388.4	.0
32.979	219.	1472.	12.9	1391.1	1391.1	.0
32.984	258.	1449.	13.1	1391.5	1391.4	.1
32.993	275.	1815.	10.5	1393.0	1393.0	.0
32.998	265.	1770.	10.7	1393.2	1393.2	.0
33.060	358.	3235.	5.9	1395.5	1395.5	.0
33.120	490.	4981.	3.8	1396.2	1396.2	.0
33.190	581.	4259.	4.5	1396.5	1396.4	.1
33.250	489.	3097.	6.1	1396.9	1396.4	.5
33.290	316.	2125.	8.9	1397.4	1397.7	-.3
33.300	298.	3072.	6.2	1398.3	1398.6	-.3
33.360	417.	2972.	6.4	1398.9	1399.1	-.2

Effective Model Output  
AGUAFRIA.OUT

33.410	313.	2666.	7.1	1399.5	1399.7	-.2
33.460	331.	3203.	2.8	1400.7	1400.8	-.1
33.540	291.	2682.	3.4	1400.8	1400.9	-.1
33.630	227.	1978.	4.6	1401.2	1401.3	-.1
33.730	307.	1480.	6.1	1401.9	1402.0	-.1
33.820	353.	1645.	5.5	1403.1	1403.1	.0

**Agua Fria River Floodplain Re-Delineation  
From Salt/Gila River to New River**

**APPENDIX E.2  
Duplicate Effective Model & Documentation**

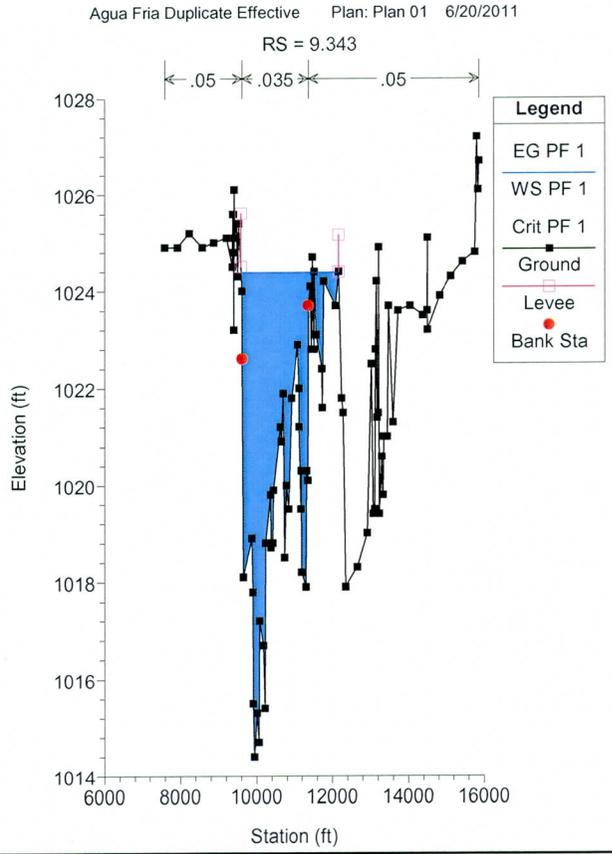
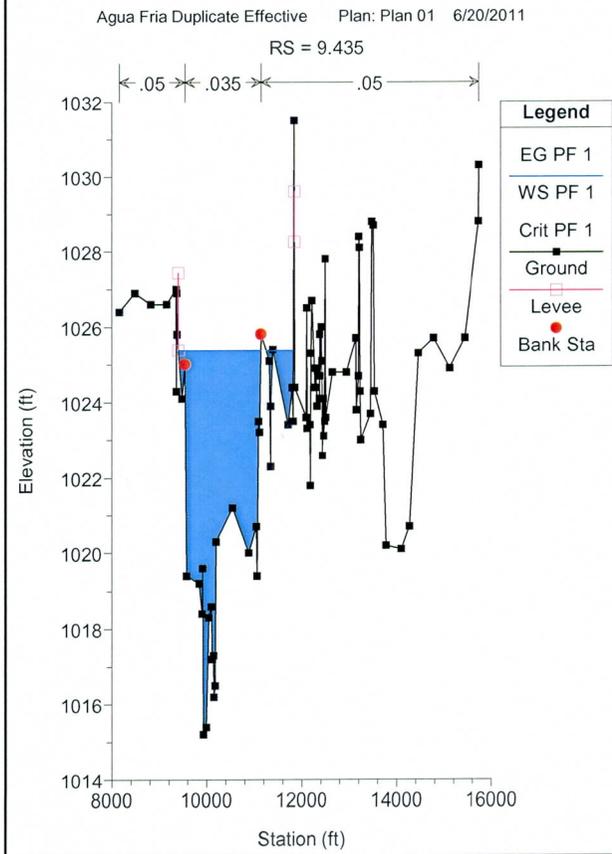
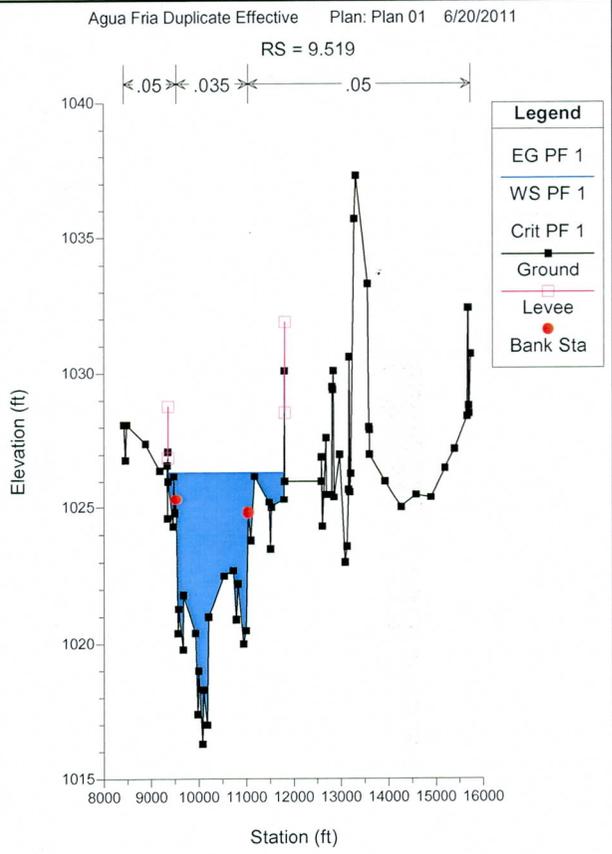
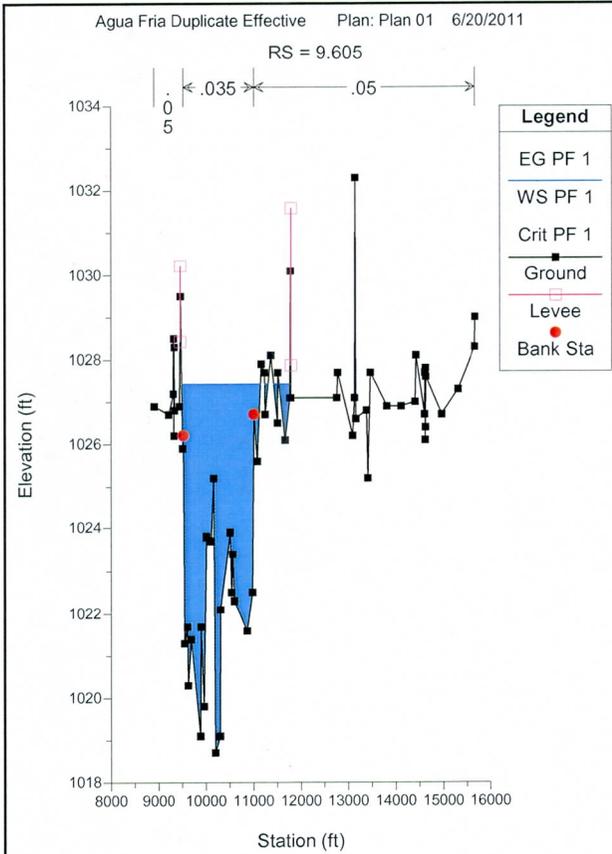


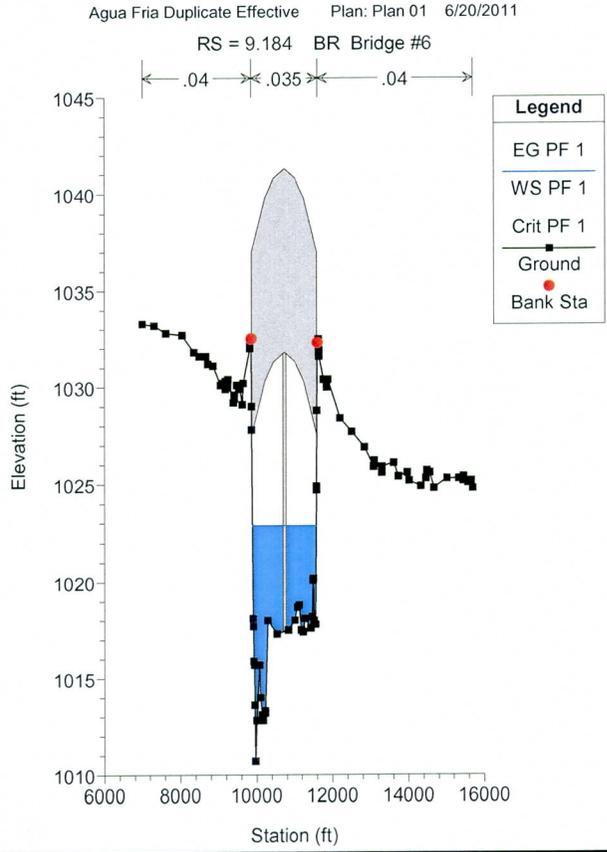
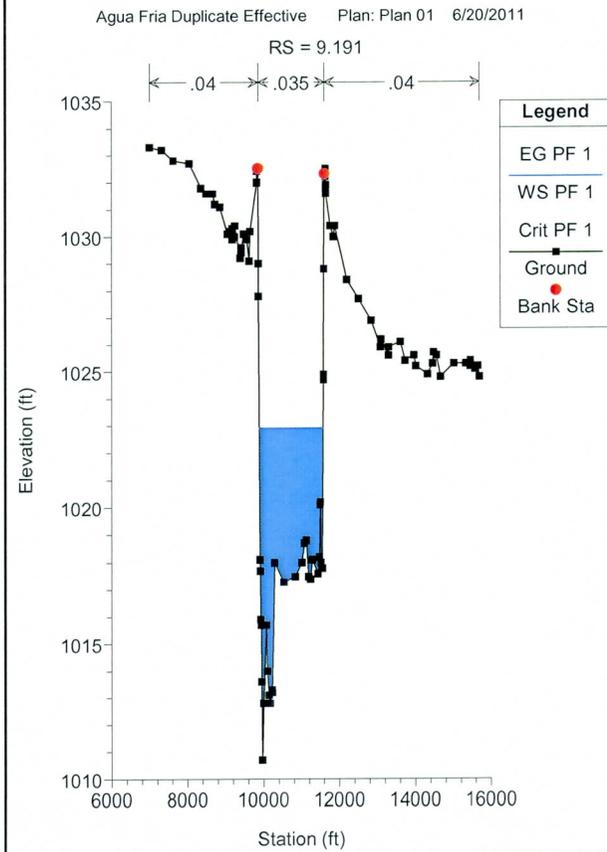
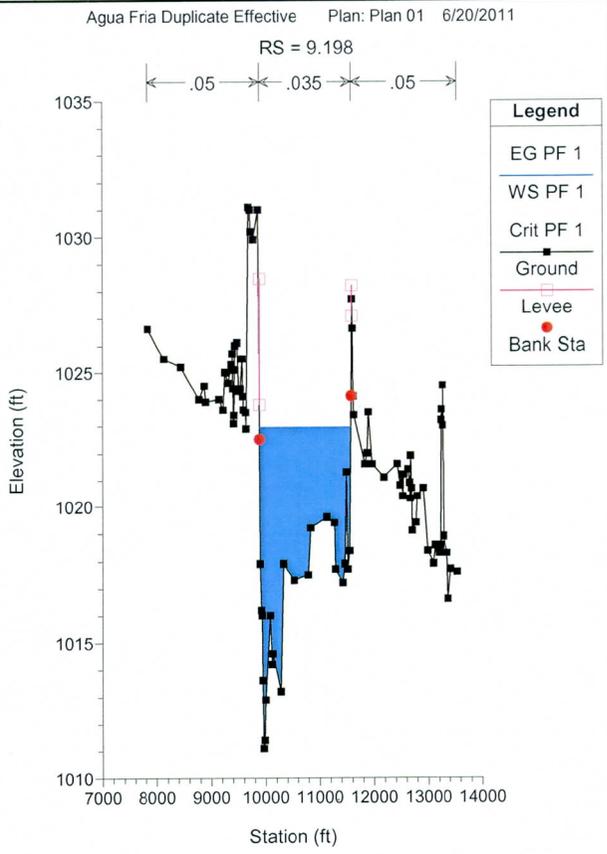
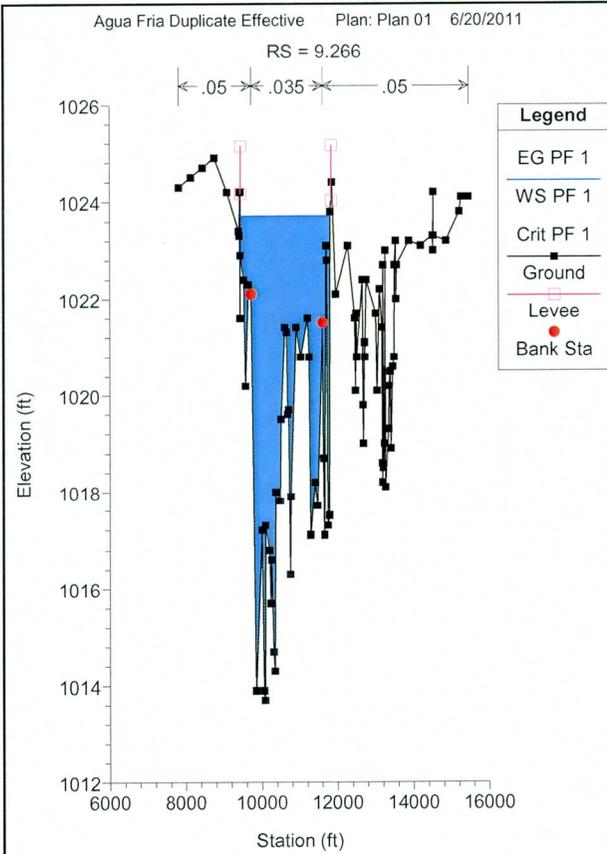
HEC-RAS Plan: Plan 01 River: RIVER-1 Reach: Reach-1 Profile: PF 1 (Continued)

Reach	River Sta	Profile	Q Total (cfs)	Min Ch El (ft)	W.S. Elev (ft)	Crit W.S. (ft)	E.G. Elev (ft)	E.G. Slope (ft/ft)	Vel Chnl (ft/s)	Flow Area (sq ft)	Top Width (ft)	Froude # Chl
Reach-1	5.317	PF 1	54400.00	971.70	977.36		978.12	0.001990	6.98	7798.05	1386.86	0.52
Reach-1	5.305	PF 1	52000.00	971.50	977.31	975.04	977.97	0.001664	6.49	8008.76	1387.12	0.48
Reach-1	5.291		Bridge									
Reach-1	5.29	PF 1	52000.00	971.50	976.99		977.72	0.002017	6.88	7556.92	1386.05	0.52
Reach-1	5.27	PF 1	52000.00	970.70	976.04		977.31	0.004448	9.03	5755.86	1266.73	0.75
Reach-1	5.25	PF 1	52000.00	970.20	975.63	974.69	976.74	0.003946	8.44	6162.59	1377.95	0.70
Reach-1	5.203	PF 1	52000.00	970.00	973.51	973.51	975.29	0.008760	10.68	4868.37	1389.48	1.01
Reach-1	5.201	PF 1	52000.00	969.10	973.91		974.86	0.003069	7.79	6675.82	1392.03	0.63
Reach-1	5.15	PF 1	52000.00	967.40	972.48		973.77	0.005143	9.11	5709.79	1388.65	0.79
Reach-1	5.1	PF 1	52000.00	965.20	971.78		972.66	0.002638	7.55	6889.03	1344.90	0.59
Reach-1	5.02	PF 1	52000.00	964.10	971.10		971.77	0.001588	6.81	7871.00	1281.86	0.47
Reach-1	5	PF 1	52000.00	963.40	970.97		971.62	0.001314	6.46	8045.02	1169.83	0.43
Reach-1	4.98	PF 1	52000.00	962.80	970.87		971.50	0.001346	6.35	8190.04	1250.69	0.44
Reach-1	4.89	PF 1	52000.00	961.80	969.88		970.67	0.001845	7.17	7255.10	1169.81	0.51
Reach-1	4.79	PF 1	52000.00	961.10	968.71		969.66	0.002317	7.82	6645.47	1115.14	0.56
Reach-1	4.759	PF 1	52000.00	960.30	968.81	964.37	969.28	0.000714	5.47	9510.72	1124.33	0.39
Reach-1	4.7565		Bridge									
Reach-1	4.754	PF 1	52000.00	960.30	968.66	964.37	969.14	0.000758	5.57	9397.80	1124.07	0.34
Reach-1	4.7	PF 1	52000.00	959.10	968.37		968.94	0.000984	6.06	8575.77	1107.42	0.38
Reach-1	4.6	PF 1	52000.00	958.10	967.95		968.47	0.000840	5.78	9003.23	1111.26	0.36
Reach-1	4.52	PF 1	52000.00	958.00	967.57		968.10	0.000877	5.86	8875.24	1106.92	0.36
Reach-1	4.5	PF 1	52000.00	957.80	967.39		967.98	0.000950	6.21	8375.59	1010.04	0.38
Reach-1	4.48	PF 1	52000.00	957.80	967.33		967.86	0.000883	5.85	8886.63	1118.06	0.37
Reach-1	4.39	PF 1	52000.00	957.60	966.78		967.37	0.001071	6.20	8392.13	1119.10	0.40
Reach-1	4.3	PF 1	52000.00	957.60	966.19		966.83	0.001183	6.40	8128.31	1113.12	0.42
Reach-1	4.27	PF 1	52000.00	957.10	965.88		966.66	0.001499	7.10	7318.82	1016.79	0.47
Reach-1	4.26	PF 1	52000.00	957.00	965.75		966.50	0.001523	6.90	7531.12	1113.03	0.47
Reach-1	4.16	PF 1	52000.00	957.20	965.04		965.75	0.001447	6.78	7670.14	1120.20	0.46
Reach-1	4.094	PF 1	52000.00	958.50	962.61	962.61	964.67	0.008313	11.52	4514.15	1105.60	1.00
Reach-1	4.092	PF 1	52000.00	955.20	962.80		963.40	0.001070	6.21	8378.64	1112.04	0.40
Reach-1	4.06	PF 1	52000.00	954.90	962.63		963.22	0.001047	6.17	8433.61	1112.47	0.39
Reach-1	4.04	PF 1	52000.00	954.50	962.35		963.06	0.001285	6.79	7659.88	1013.71	0.44
Reach-1	4.02	PF 1	52000.00	953.90	962.38		962.90	0.000847	5.79	8986.59	1112.09	0.36
Reach-1	3.93	PF 1	52000.00	953.50	961.86		962.44	0.001002	6.09	8545.09	1112.28	0.39
Reach-1	3.83	PF 1	52000.00	952.80	961.44		961.96	0.000852	5.75	9043.95	1135.24	0.36
Reach-1	3.81	PF 1	52000.00	953.30	961.14		961.83	0.001239	6.69	7776.33	1025.34	0.43
Reach-1	3.8	PF 1	52000.00	953.10	961.16		961.70	0.000933	5.94	8759.44	1123.36	0.37
Reach-1	3.78	PF 1	52000.00	952.90	961.04		961.59	0.000908	5.91	8794.53	1110.01	0.37
Reach-1	3.77	PF 1	50900.00	952.90	960.97	957.13	961.54	0.001402	6.07	8381.09	1054.89	0.38
Reach-1	3.7695		Bridge									
Reach-1	3.767	PF 1	50900.00	952.90	960.74		961.35	0.001542	6.25	8139.30	1053.95	0.40
Reach-1	3.757	PF 1	50900.00	952.10	960.76		961.21	0.000952	5.42	9392.35	1110.71	0.33
Reach-1	3.747	PF 1	50900.00	952.30	960.74	956.17	961.15	0.000863	5.12	9933.07	1185.36	0.31
Reach-1	3.7405		Bridge									
Reach-1	3.734	PF 1	50900.00	952.30	960.54		960.97	0.000933	5.25	9701.74	1184.98	0.32
Reach-1	3.729	PF 1	50900.00	952.20	960.52		960.95	0.000918	5.24	9721.59	1173.95	0.32
Reach-1	3.69	PF 1	50900.00	951.00	958.97		960.36	0.005460	9.45	5386.20	1028.99	0.73
Reach-1	3.64	PF 1	50900.00	948.80	957.86		959.24	0.004021	9.44	5393.02	819.07	0.65
Reach-1	3.55	PF 1	50900.00	948.00	956.42		957.42	0.003165	8.33	6926.73	1556.16	0.57
Reach-1	3.47	PF 1	50900.00	946.10	955.40		956.25	0.002566	7.50	7196.54	1557.37	0.52
Reach-1	3.43	PF 1	50900.00	946.00	954.79		955.69	0.002995	7.86	6743.94	1191.58	0.55
Reach-1	3.4	PF 1	50900.00	945.10	952.77	952.77	954.74	0.010907	11.26	4578.03	1284.92	0.98
Reach-1	3.37	PF 1	50900.00	943.40	952.88		953.47	0.001753	6.20	8596.18	1699.49	0.43
Reach-1	3.27	PF 1	50900.00	944.50	951.96		952.53	0.001918	6.05	8502.78	1602.79	0.44
Reach-1	3.18	PF 1	50900.00	943.40	951.19		951.63	0.001490	5.32	9630.29	1904.98	0.39
Reach-1	3.08	PF 1	50900.00	942.50	950.70		951.00	0.000938	4.38	11833.31	2315.94	0.31
Reach-1	2.99	PF 1	50900.00	942.30	950.16		950.48	0.001162	4.57	11665.28	2440.97	0.34
Reach-1	2.89	PF 1	50900.00	942.90	949.52		949.84	0.001369	4.50	11295.72	2187.99	0.36
Reach-1	2.8	PF 1	50900.00	942.00	948.88		949.20	0.001262	4.56	11438.95	2250.89	0.35
Reach-1	2.7	PF 1	50900.00	940.40	948.18		948.52	0.001494	4.77	11457.00	2679.07	0.38
Reach-1	2.6	PF 1	50900.00	939.60	947.14		947.60	0.002044	5.79	10073.78	2551.21	0.45
Reach-1	2.51	PF 1	50900.00	938.70	946.09		946.58	0.001906	6.07	9981.60	2202.79	0.44
Reach-1	2.41	PF 1	50900.00	937.40	944.97		945.51	0.002454	6.86	10054.30	2514.40	0.50
Reach-1	2.33	PF 1	50900.00	936.20	944.01		944.48	0.002062	6.50	10758.99	2603.35	0.46
Reach-1	2.25	PF 1	50900.00	935.00	942.70		943.37	0.002880	7.79	9537.68	2702.80	0.54
Reach-1	2.18	PF 1	50900.00	934.40	941.78		942.28	0.002136	6.39	10746.47	3049.19	0.46
Reach-1	2.1	PF 1	50900.00	934.30	940.84		941.39	0.002652	6.60	10103.10	3200.77	0.51
Reach-1	2.02	PF 1	50900.00	932.70	940.03		940.42	0.002004	5.71	11721.90	3496.09	0.44
Reach-1	1.94	PF 1	50900.00	932.30	939.08		939.56	0.002075	5.92	10807.85	3757.89	0.45
Reach-1	1.87	PF 1	50900.00	931.10	938.27		938.68	0.001497	5.49	11765.45	4024.01	0.39
Reach-1	1.79	PF 1	50900.00	929.20	937.62		938.04	0.001344	5.47	11917.25	4013.80	0.38
Reach-1	1.71	PF 1	50900.00	928.20	937.21		937.50	0.000866	4.71	14726.11	4026.89	0.31
Reach-1	1.64	PF 1	50900.00	927.90	936.88		937.14	0.000685	4.49	15419.42	3671.47	0.27
Reach-1	1.56	PF 1	50900.00	926.10	936.61		936.84	0.000586	4.67	17332.99	3647.36	0.26
Reach-1	1.48	PF 1	50900.00	926.70	936.07		936.44	0.001468	5.81	13414.38	3977.17	0.39
Reach-1	1.4	PF 1	50900.00	927.10	934.22	934.02	935.19	0.004727	9.65	9108.65	3950.15	0.69

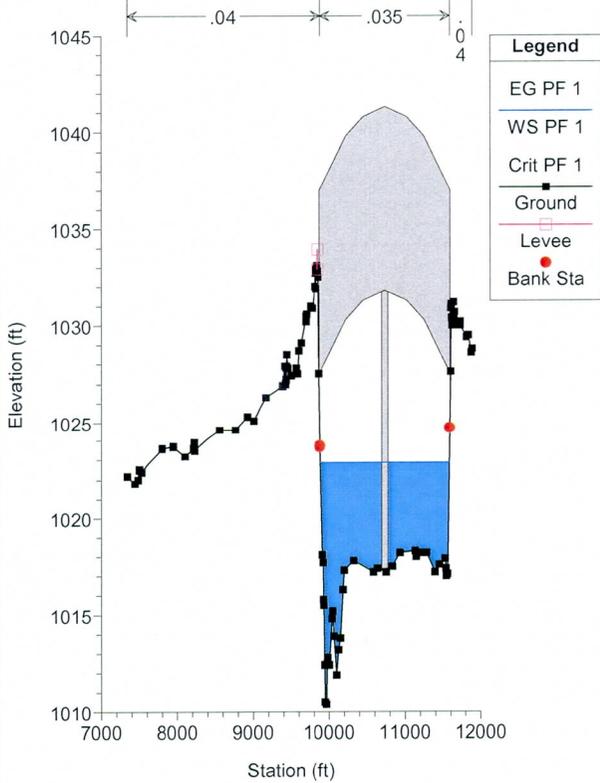
HEC-RAS Plan: Plan 01 River: RIVER-1 Reach: Reach-1 Profile: PF 1 (Continued)

Reach	River Sta	Profile	Q Total (cfs)	Min Ch El (ft)	W.S. Elev (ft)	Crit W.S. (ft)	E.G. Elev (ft)	E.G. Slope (ft/ft)	Vel Chnl (ft/s)	Flow Area (sq ft)	Top Width (ft)	Froude # Chl
Reach-1	1.33	PF 1	50900.00	925.50	933.09		933.54	0.002347	7.14	12940.37	4810.13	0.49
Reach-1	1.25	PF 1	50900.00	924.40	931.06	930.82	932.01	0.004029	9.27	9898.50	3681.98	0.65
Reach-1	1.17	PF 1	50900.00	923.60	929.86		930.29	0.002635	6.81	13635.71	4976.22	0.51
Reach-1	1.1	PF 1	50900.00	922.50	928.87		929.20	0.001551	5.40	15012.24	4240.48	0.39
Reach-1	1.01	PF 1	50900.00	921.20	927.87		928.28	0.002305	6.41	13692.48	3946.70	0.48
Reach-1	0.92	PF 1	50900.00	919.30	926.96		927.26	0.002173	6.36	18515.98	8188.05	0.47
Reach-1	0.83	PF 1	50900.00	917.30	926.05		926.27	0.002201	7.26	20510.38	9635.68	0.48
Reach-1	0.73	PF 1	50900.00	916.90	924.79		925.07	0.002663	7.52	16200.02	8890.75	0.52
Reach-1	0.63	PF 1	50900.00	915.70	923.39	922.50	923.71	0.002774	7.70	18510.46	8425.77	0.54
Reach-1	0.54	PF 1	50900.00	913.70	922.08		922.41	0.002355	7.44	18376.46	8795.92	0.50
Reach-1	0.44	PF 1	50900.00	912.80	921.04		921.30	0.001891	5.53	19062.72	8491.00	0.43
Reach-1	0.35	PF 1	50900.00	911.40	919.69		920.11	0.002871	8.39	18101.28	8170.87	0.55
Reach-1	0.25	PF 1	50900.00	910.90	918.23		918.65	0.003160	8.23	15469.59	6211.45	0.57
Reach-1	0.16	PF 1	50900.00	909.60	916.56	914.77	917.02	0.003410	7.79	12697.74	4296.55	0.58

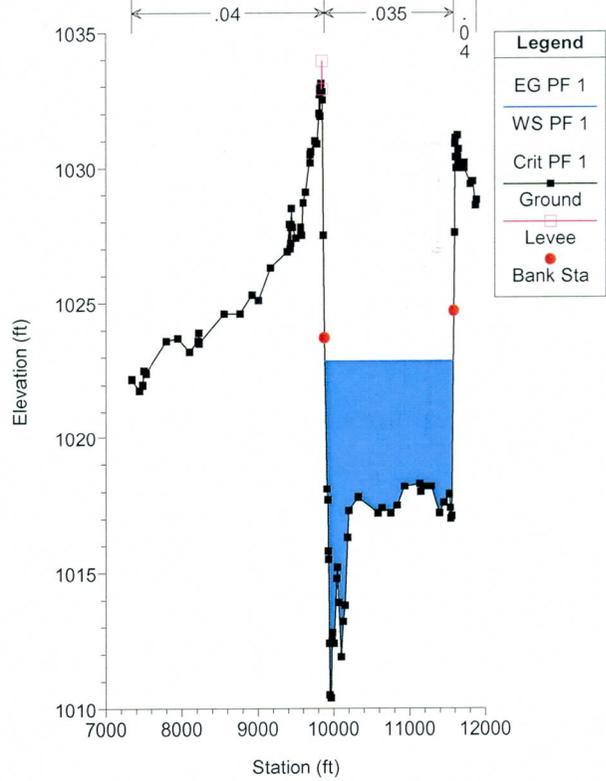




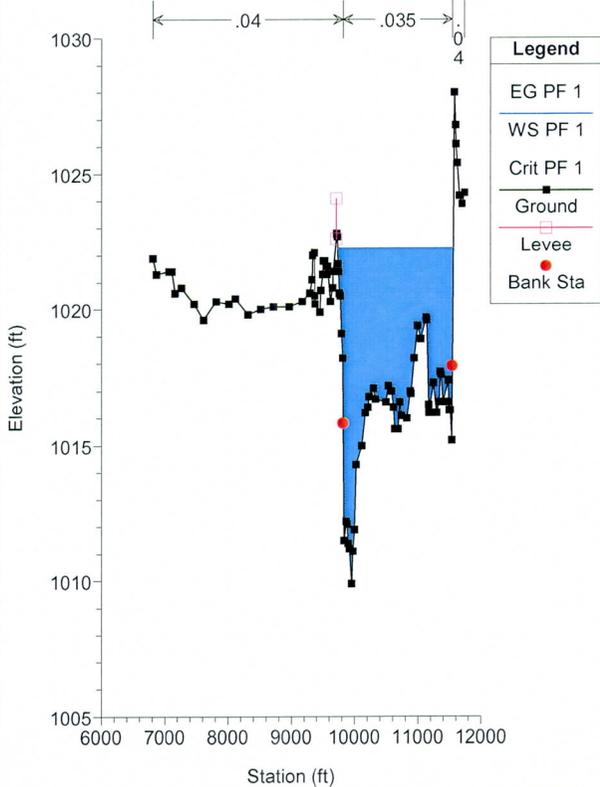
RS = 9.184 BR Bridge #6



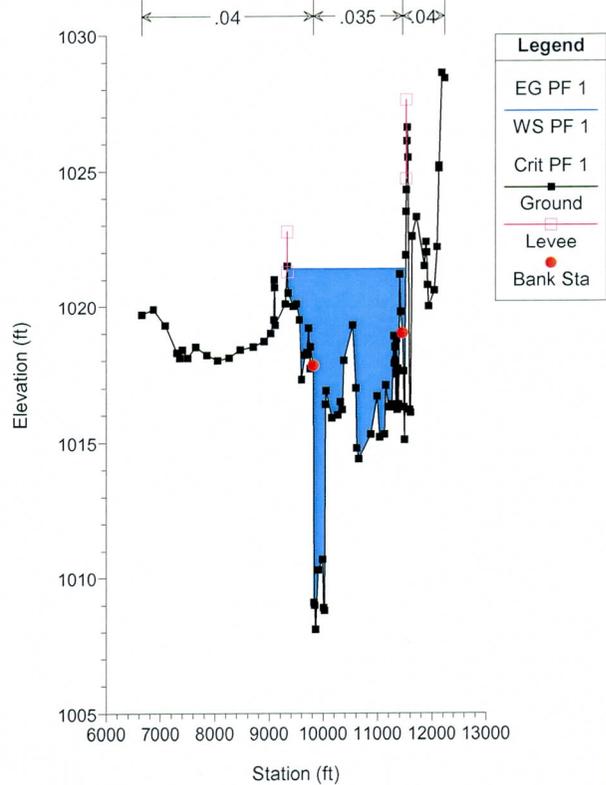
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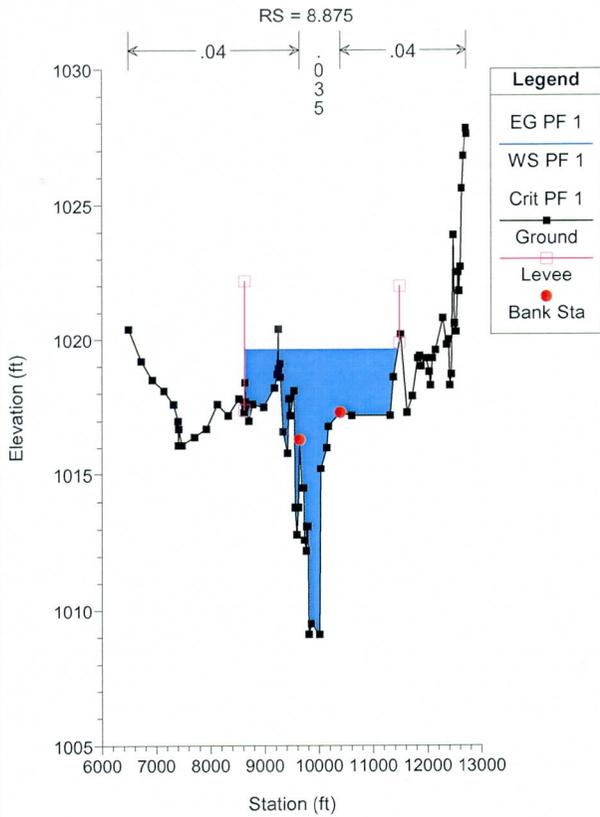
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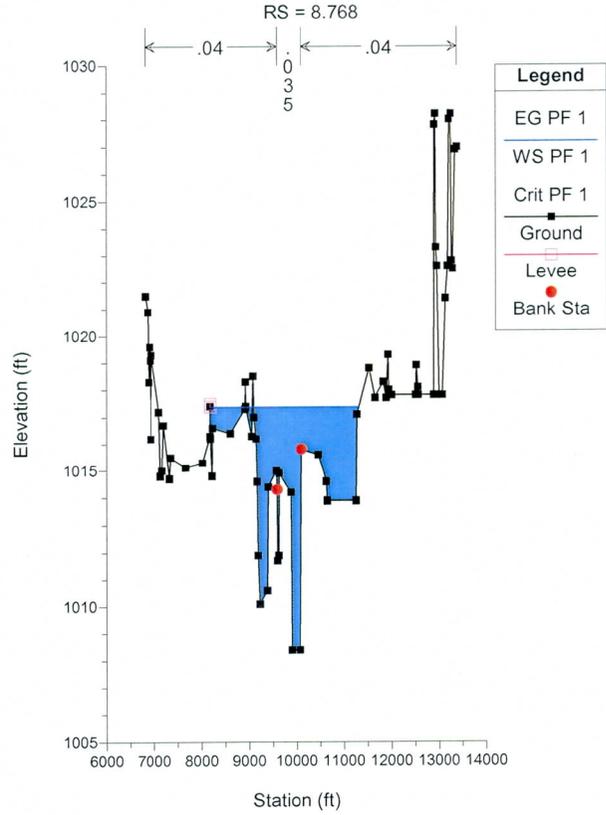
RS = 8.992



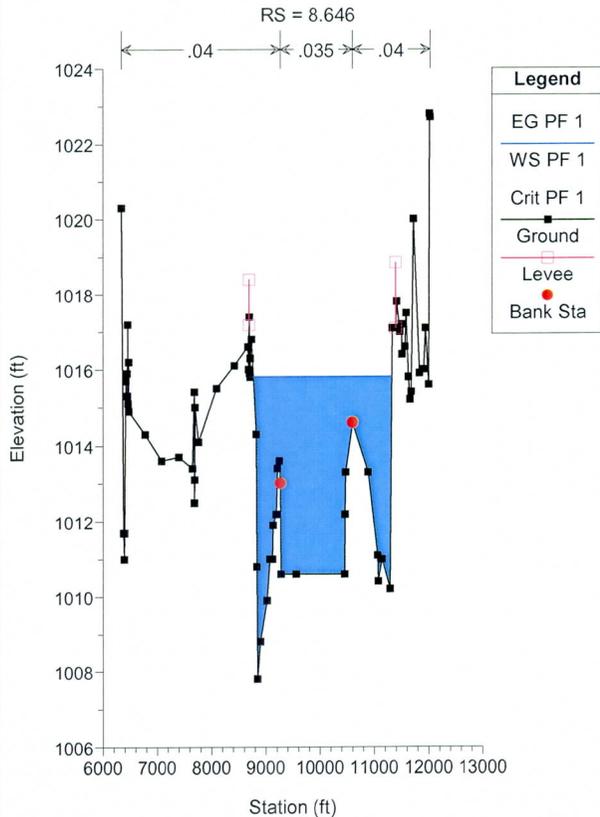
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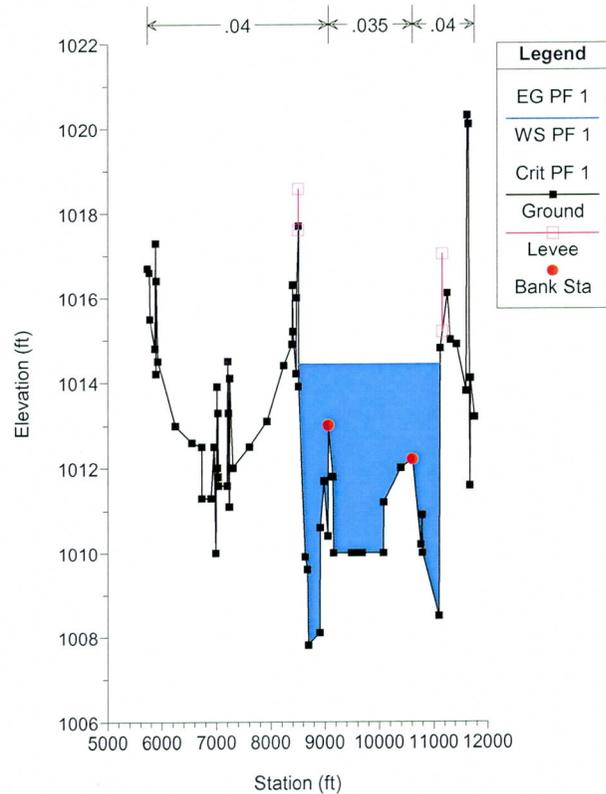
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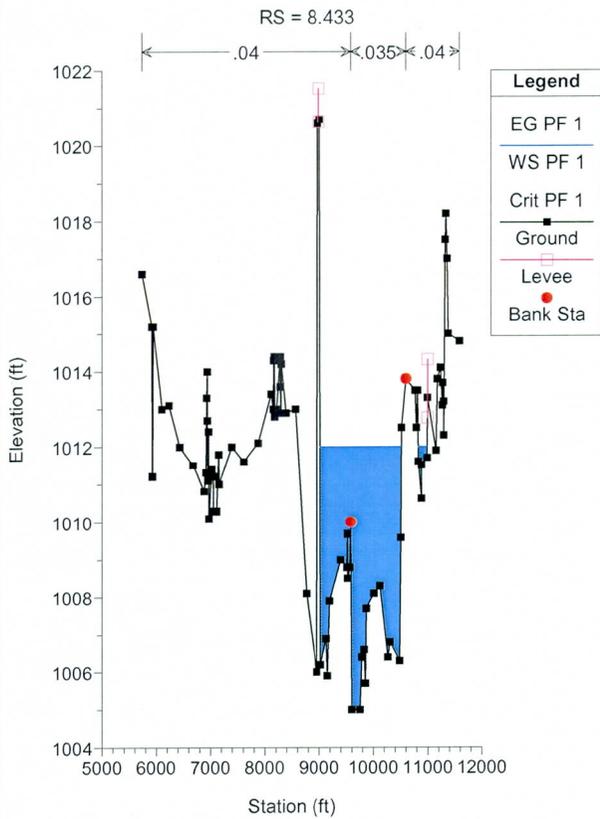
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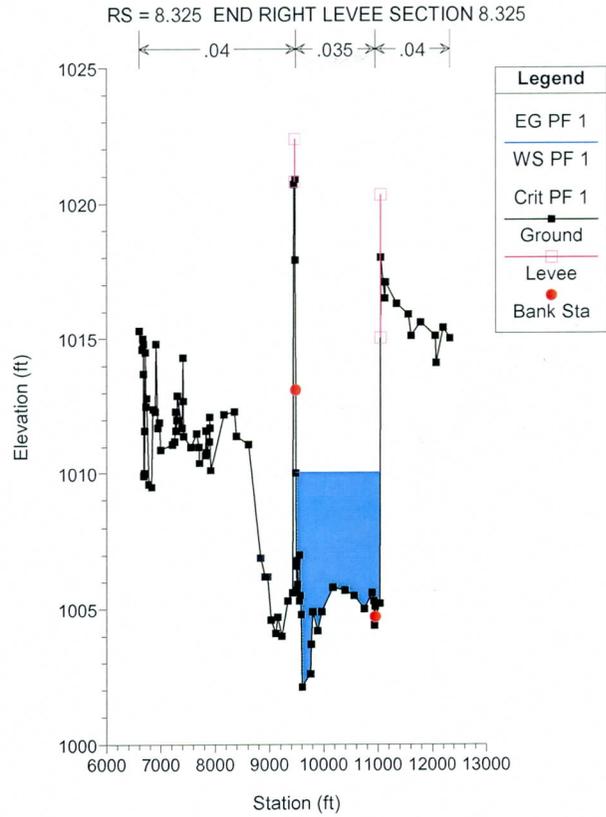
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RS = 8.534 GR POINTS MODIFIED - BOTTOM OF GRAVEL MINE RAISED TO ELIMINATE N



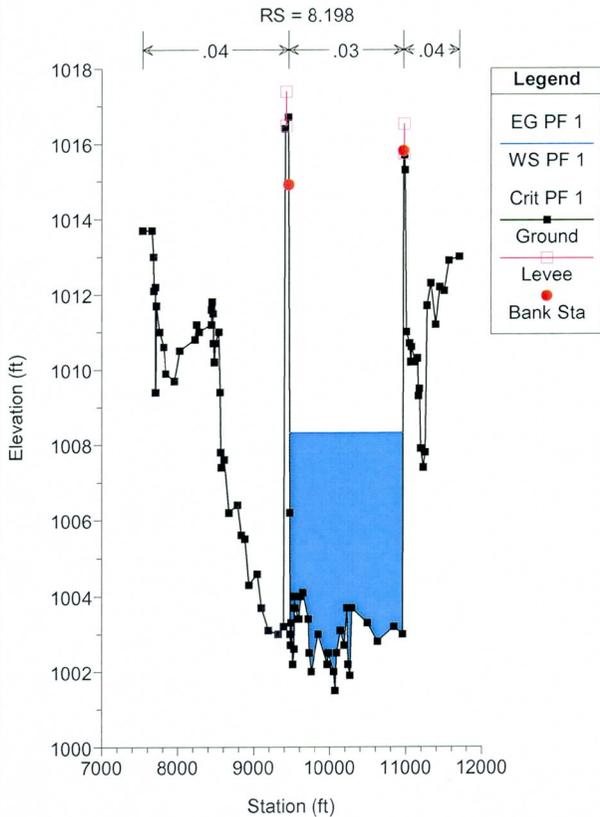
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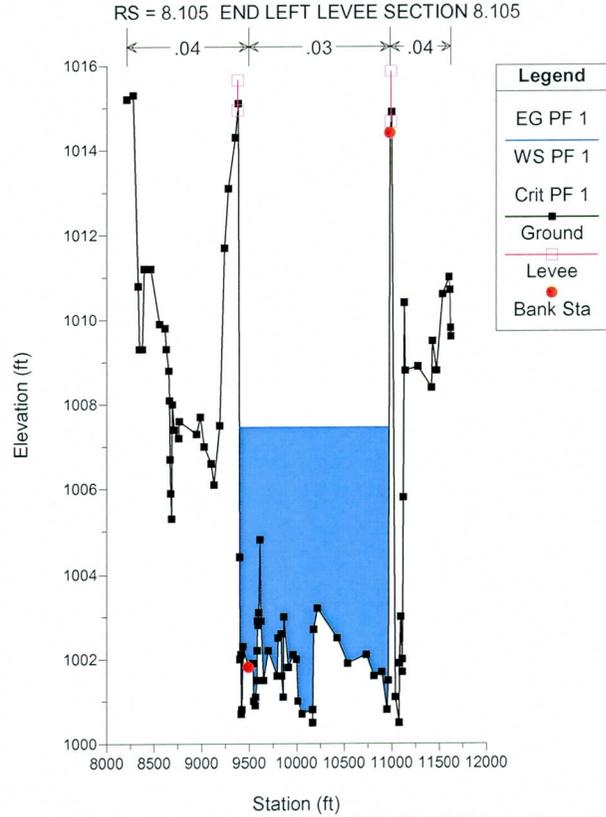
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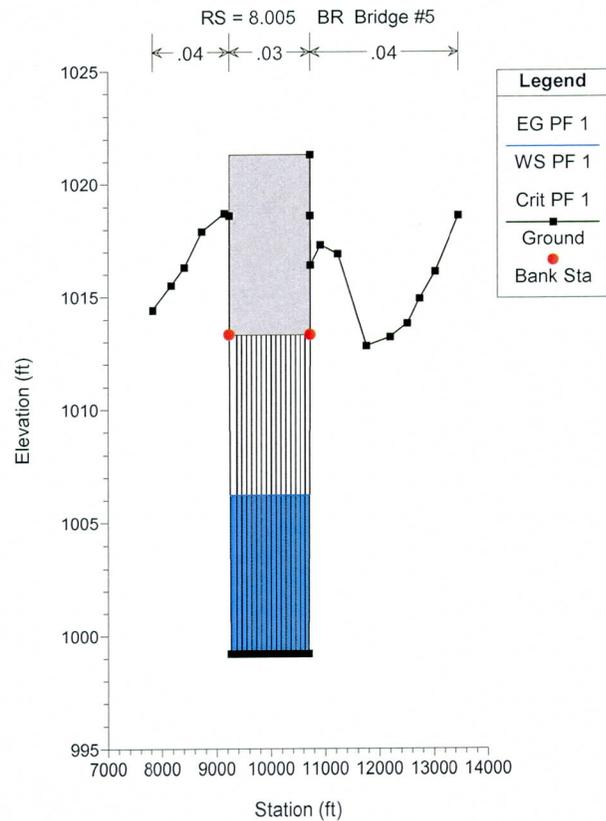
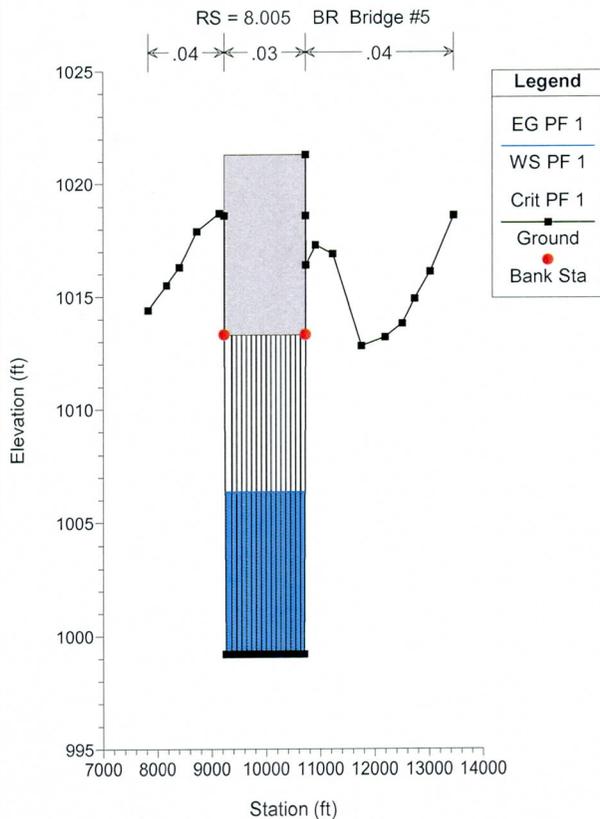
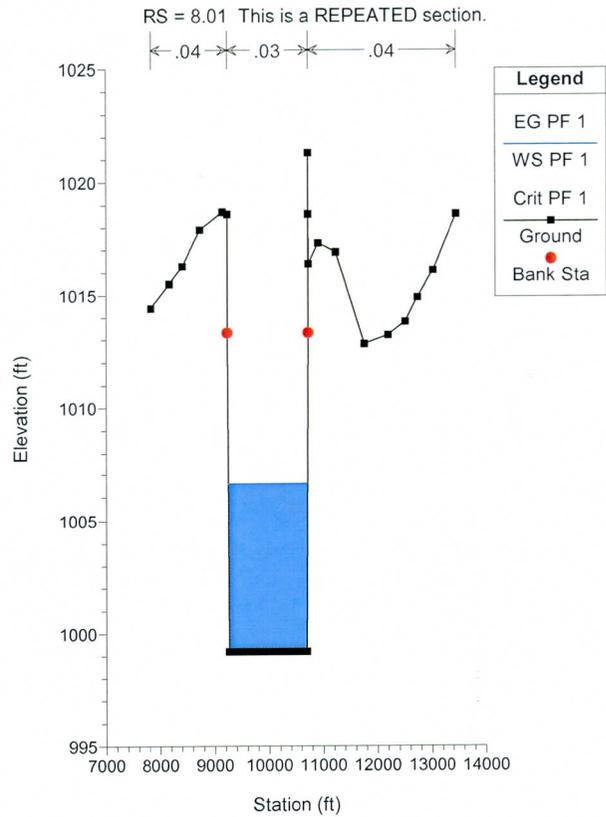
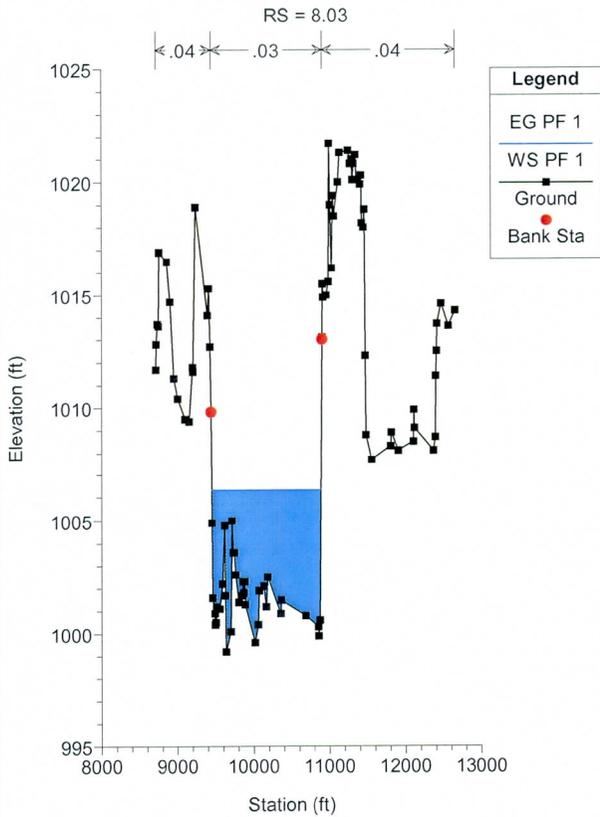


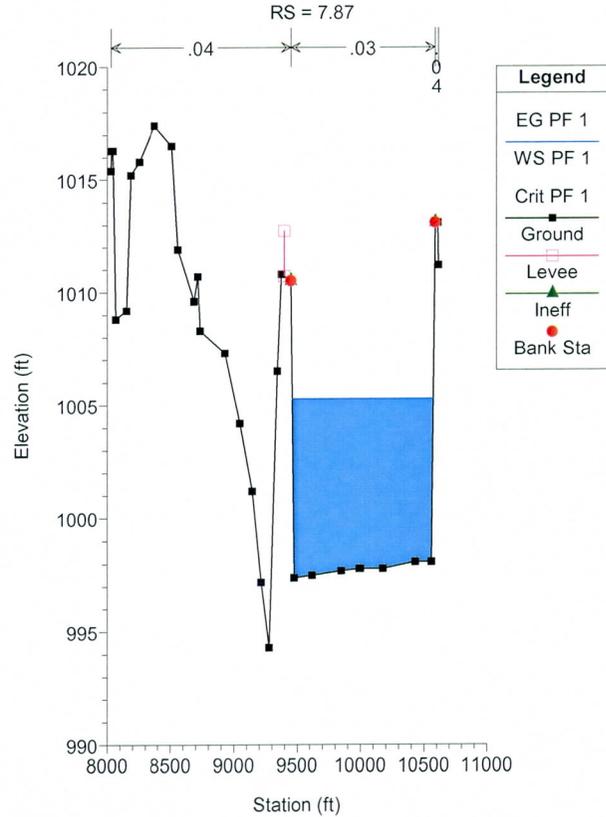
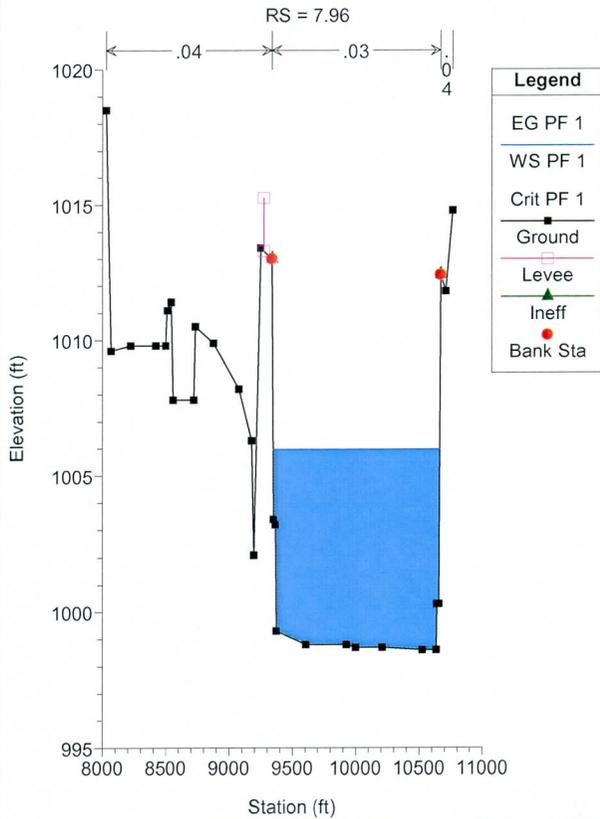
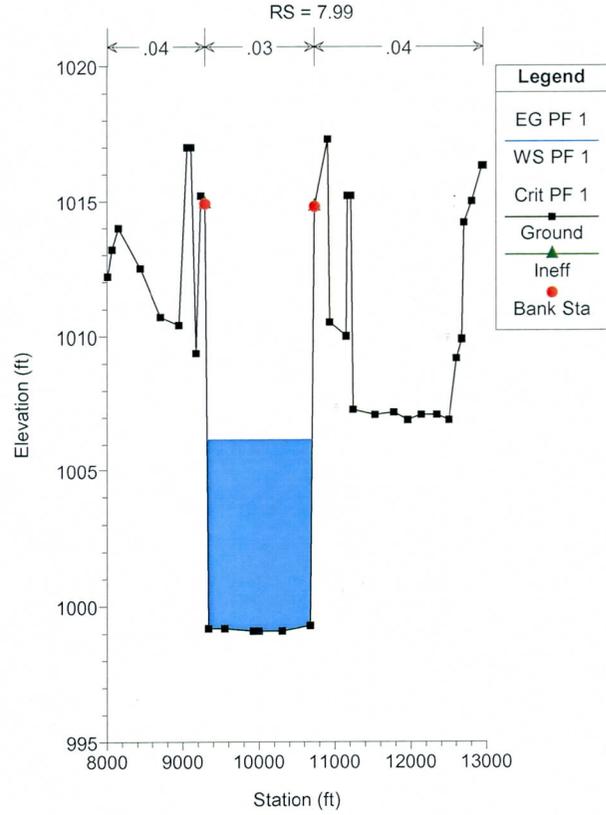
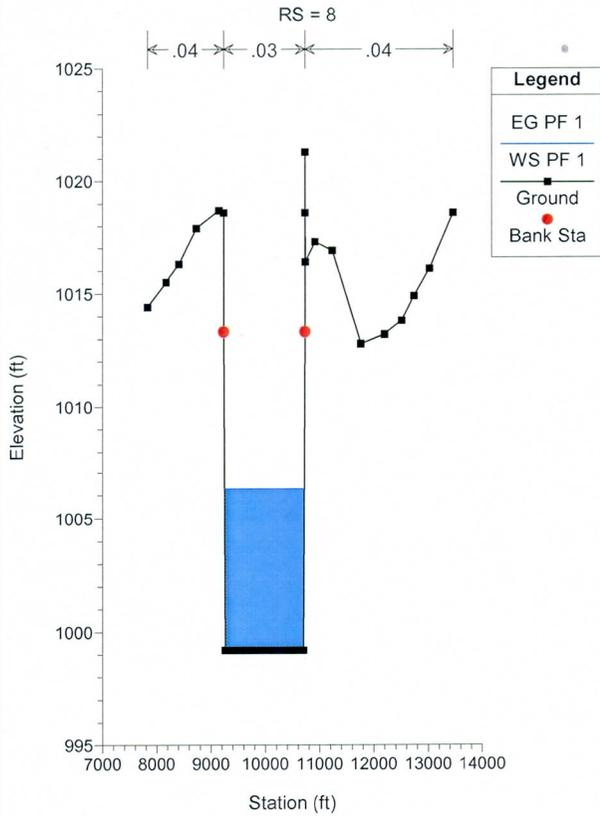
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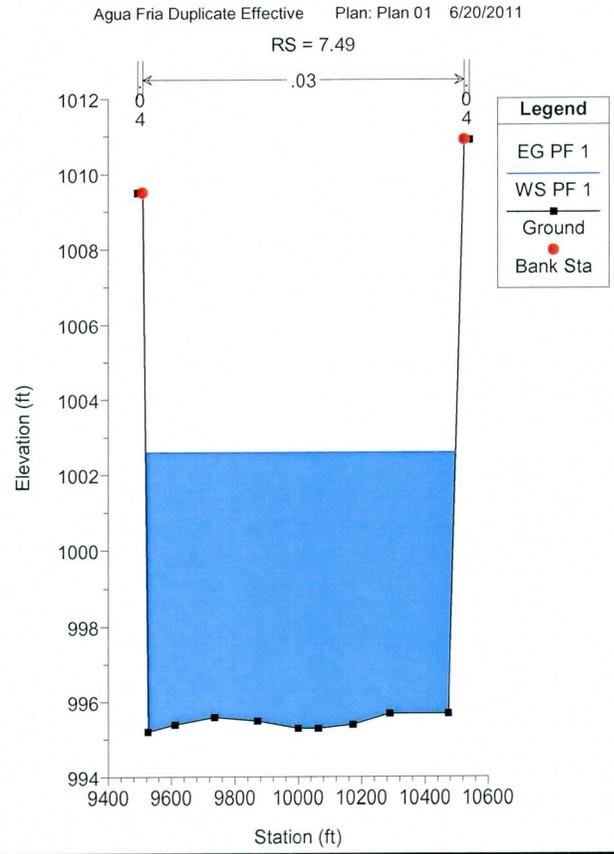
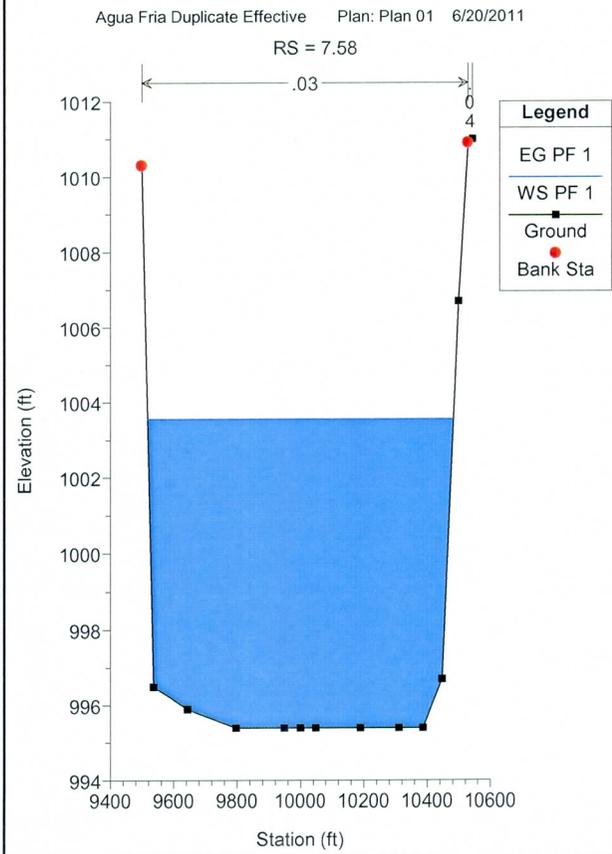
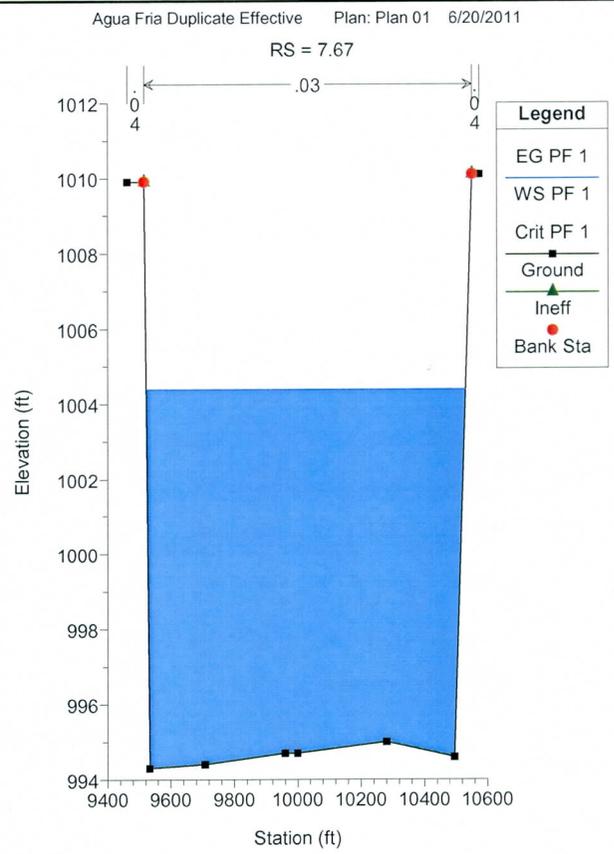
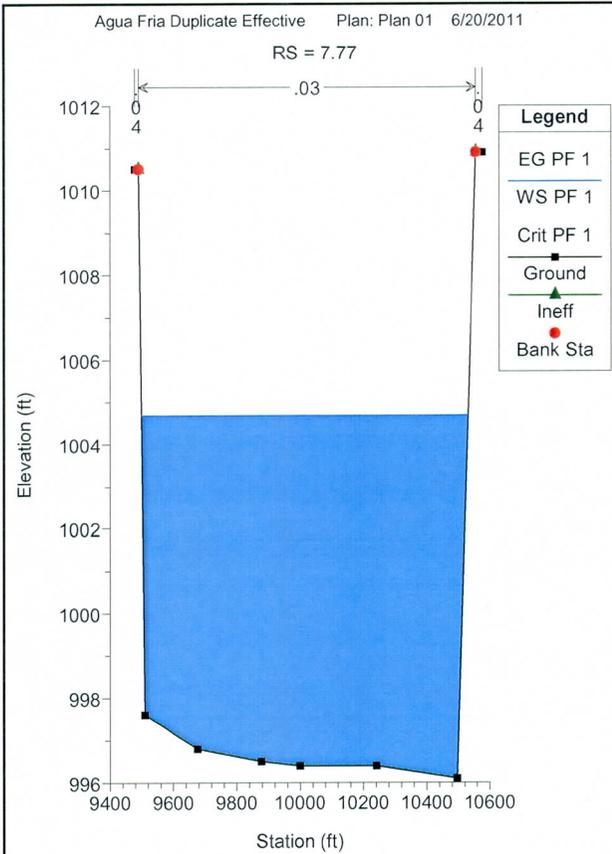


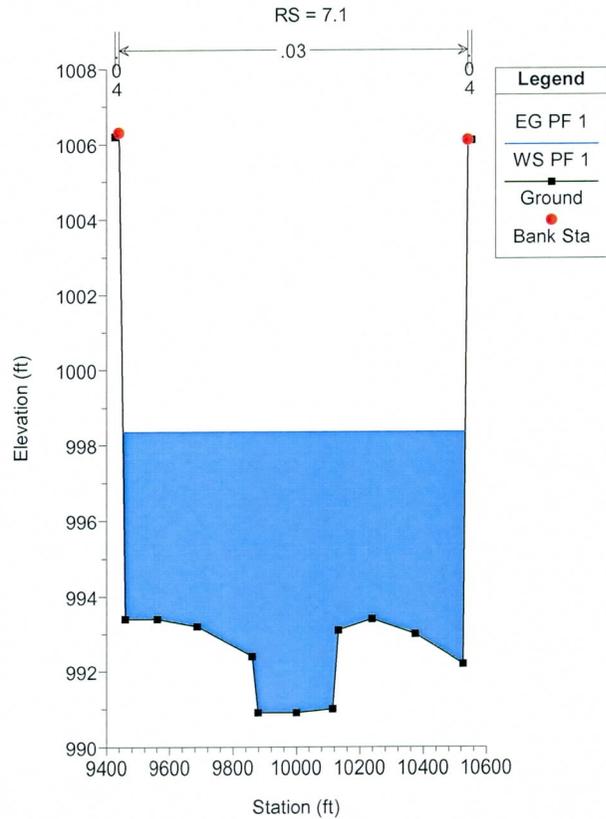
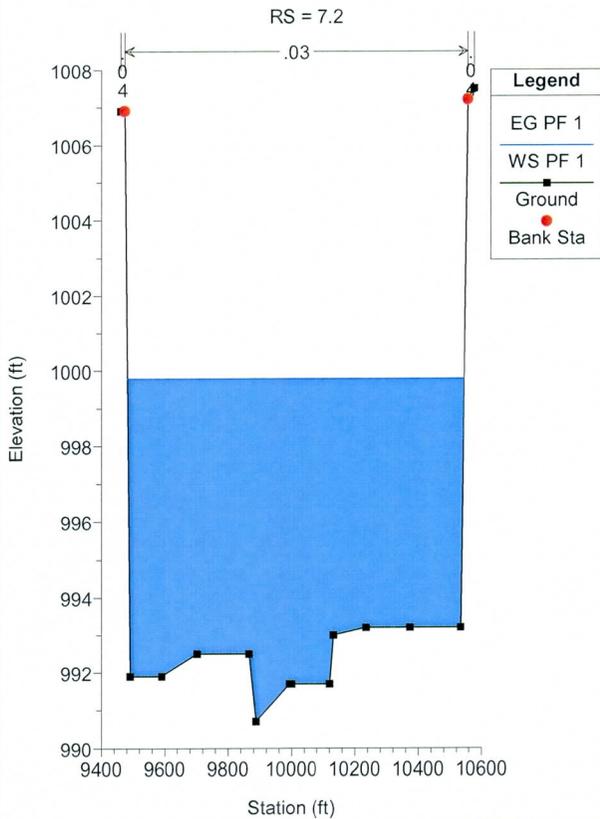
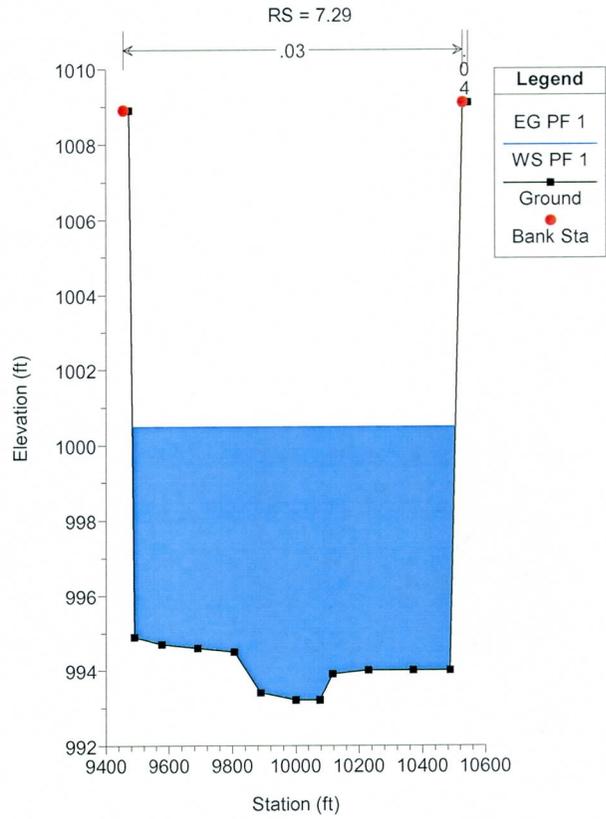
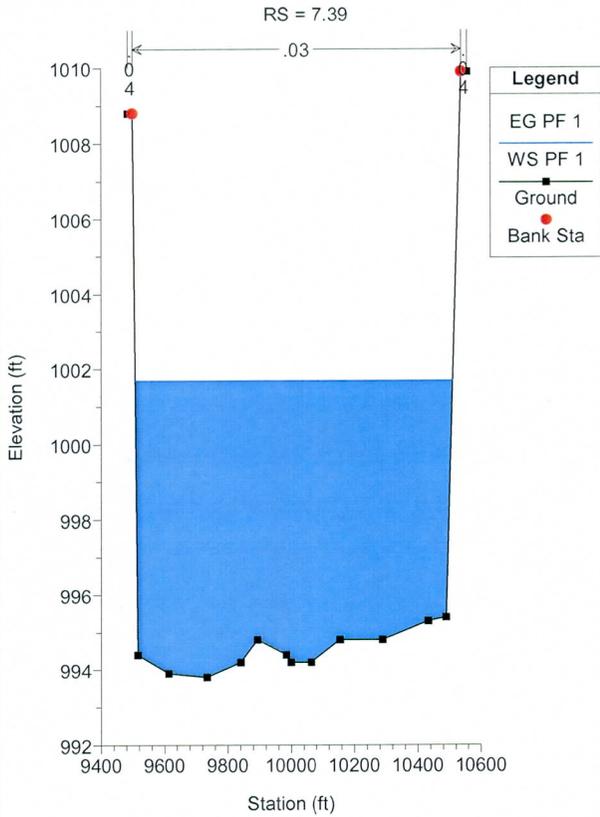
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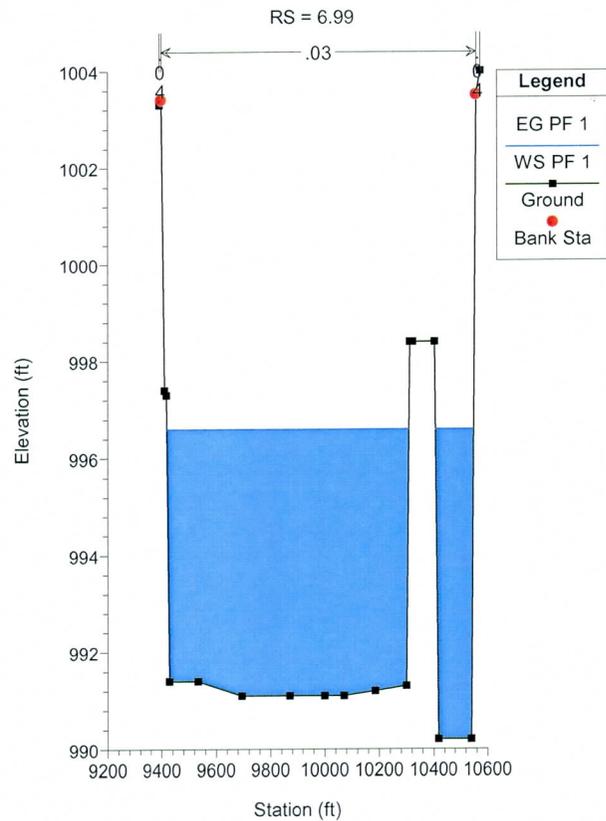
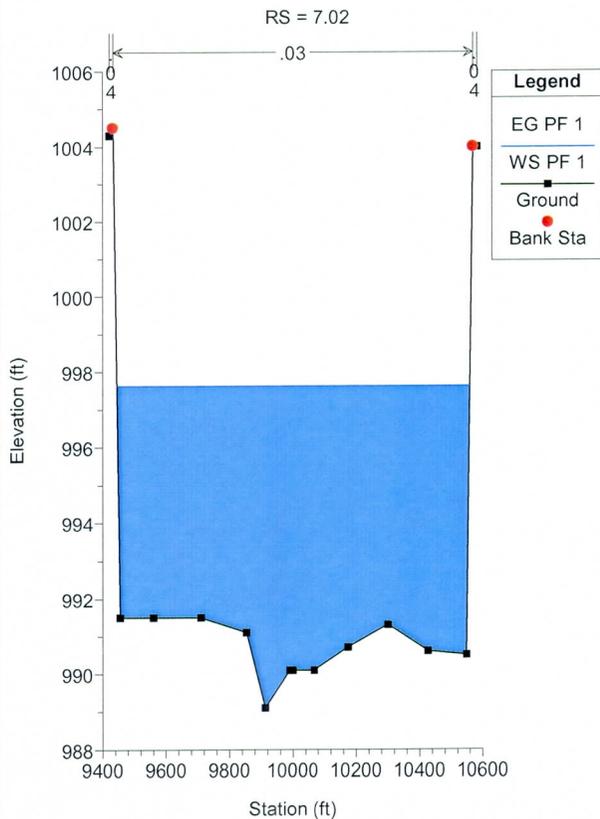
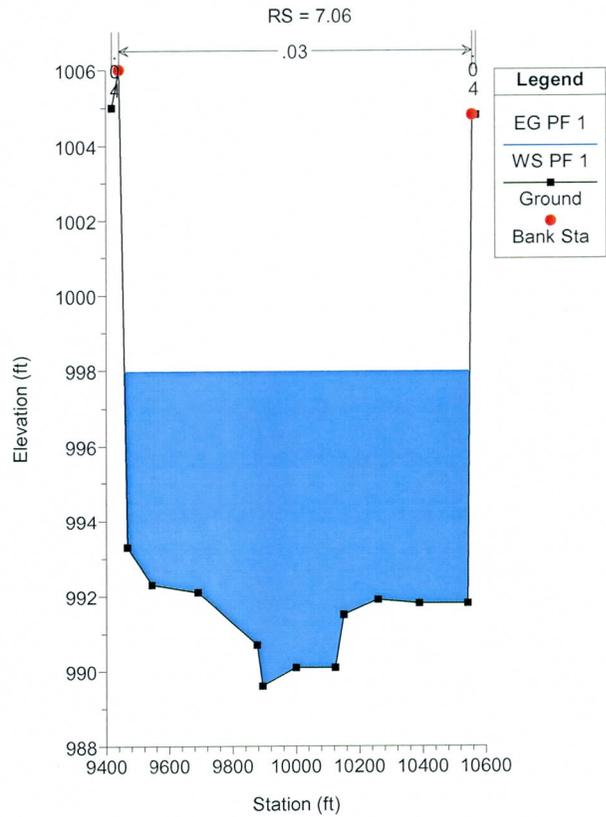
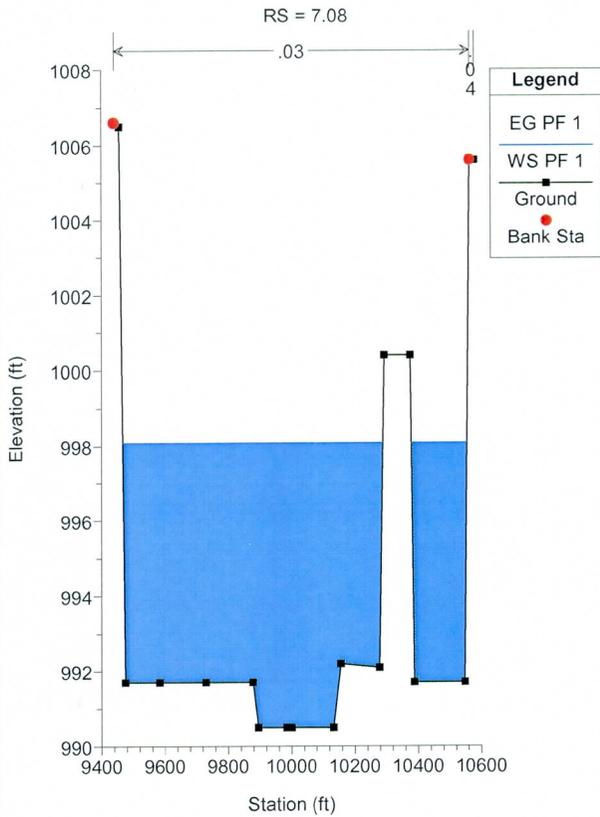


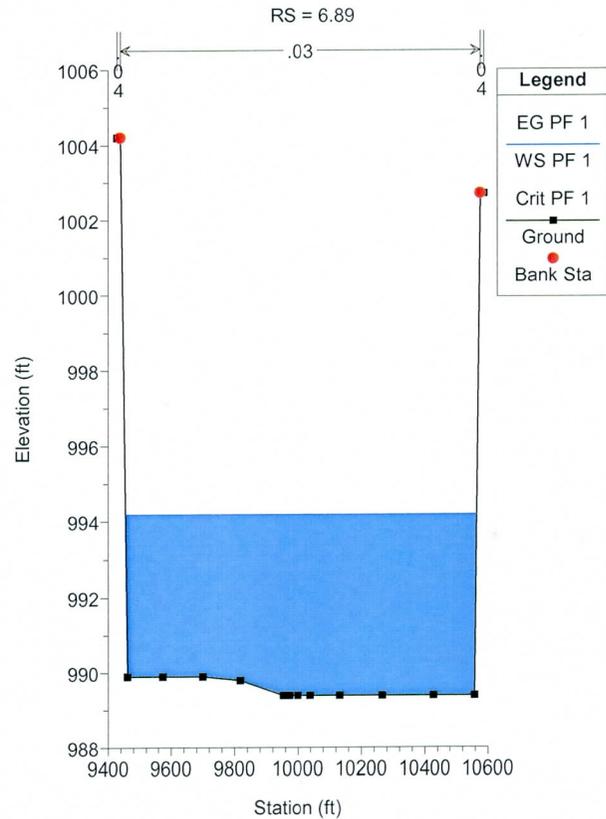
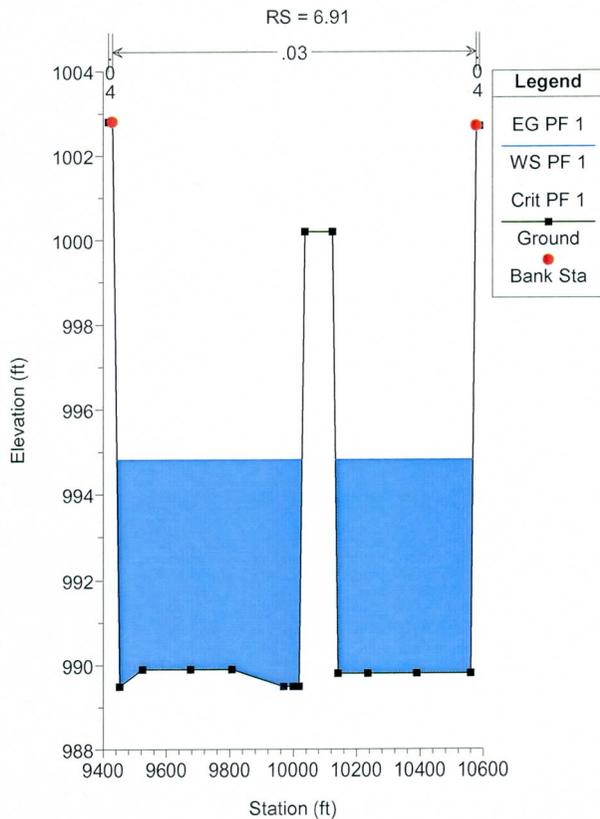
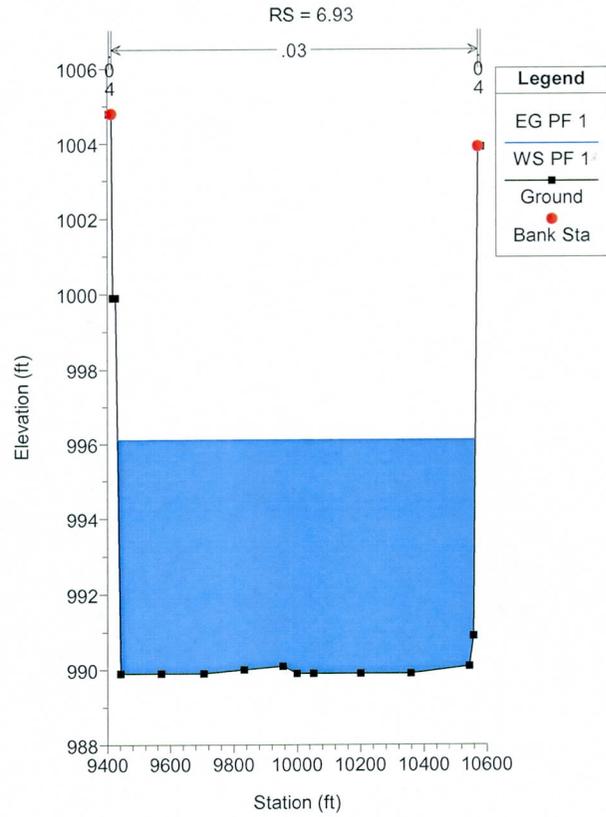
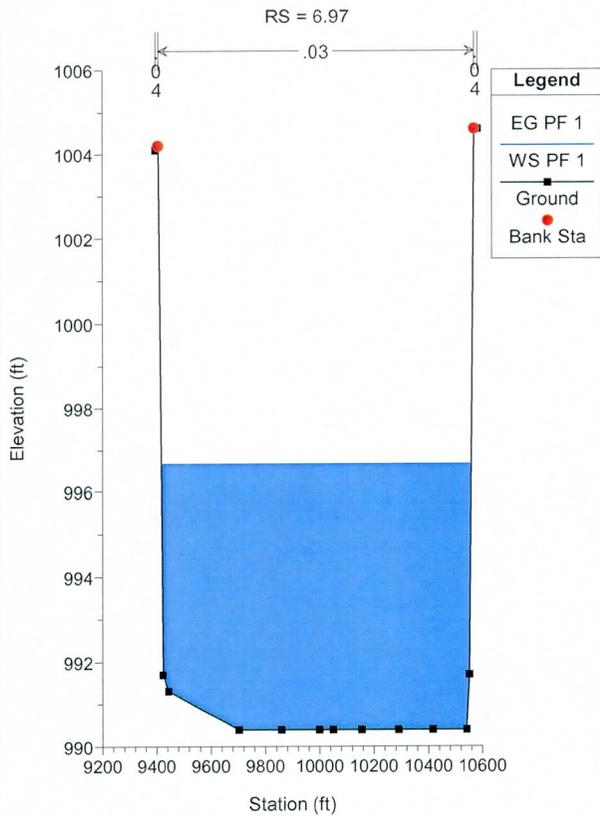


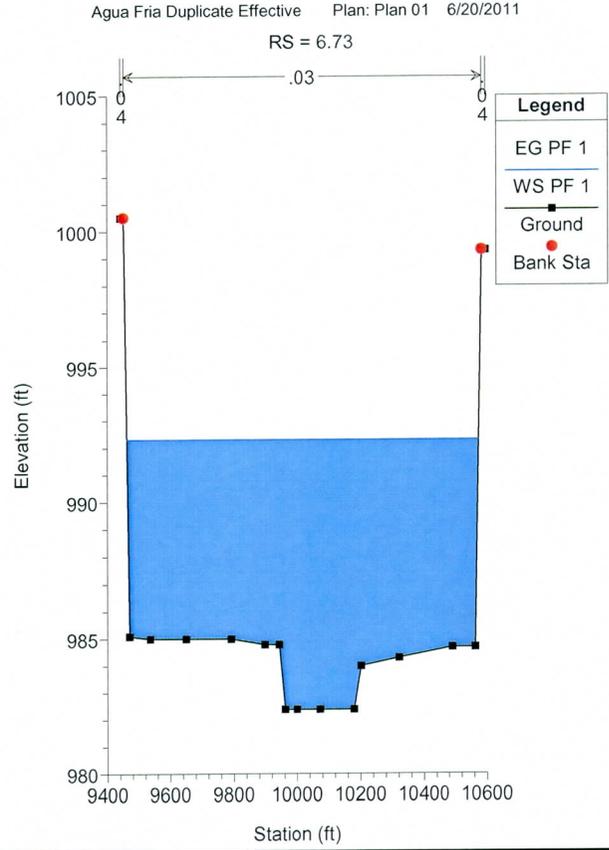
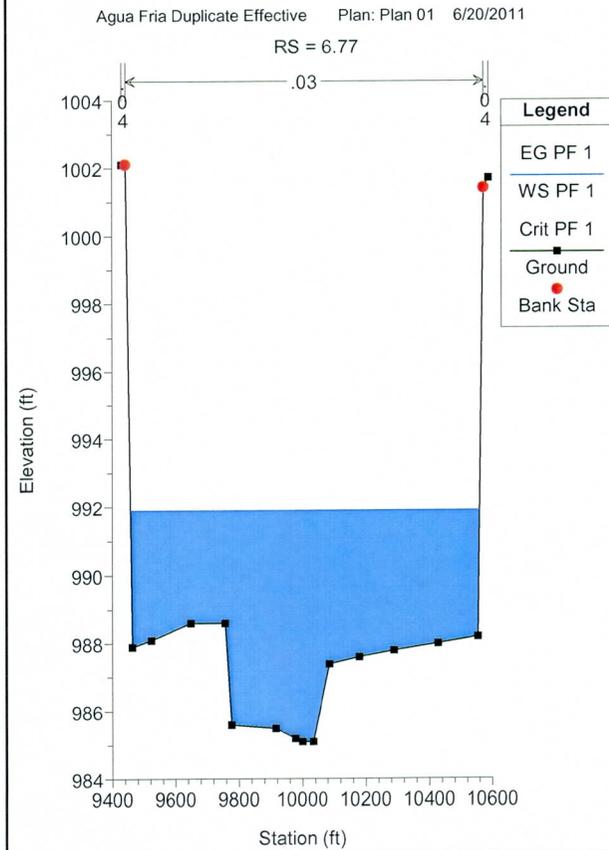
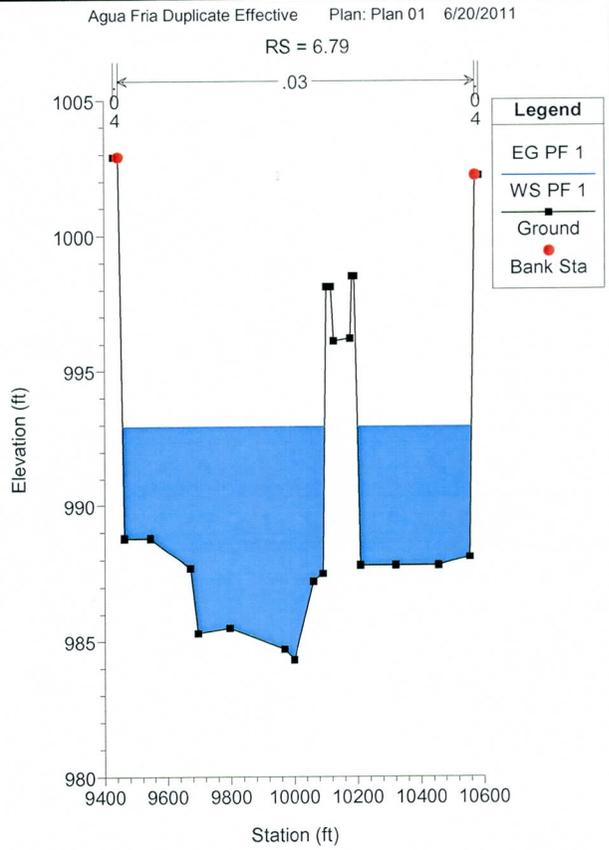
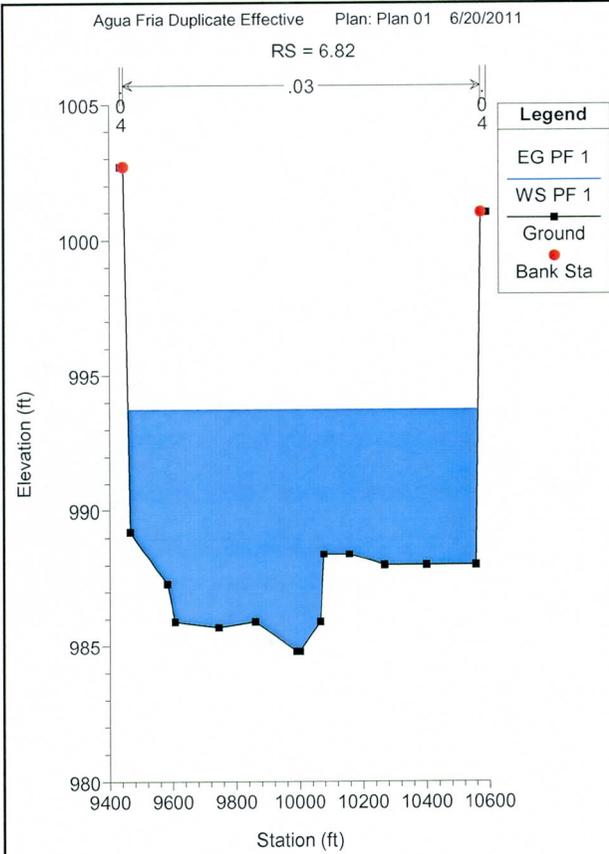


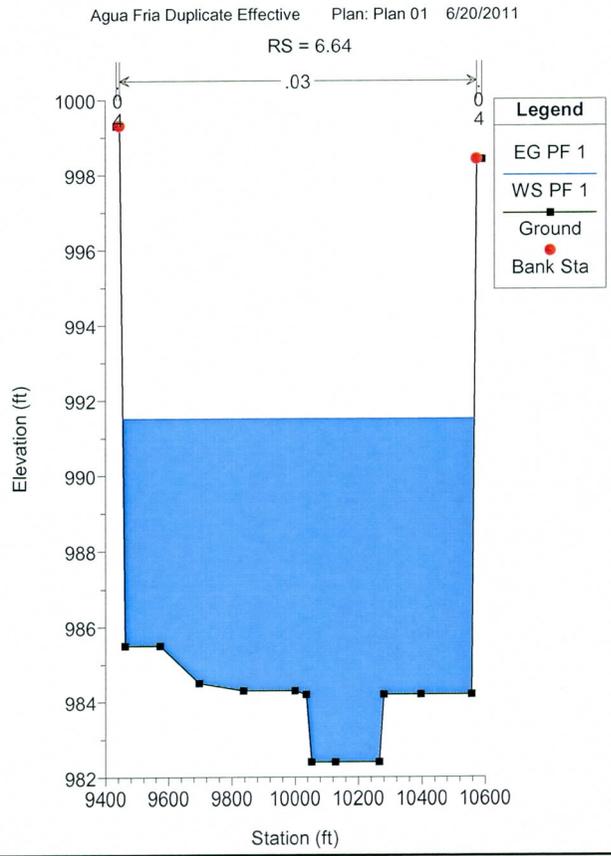
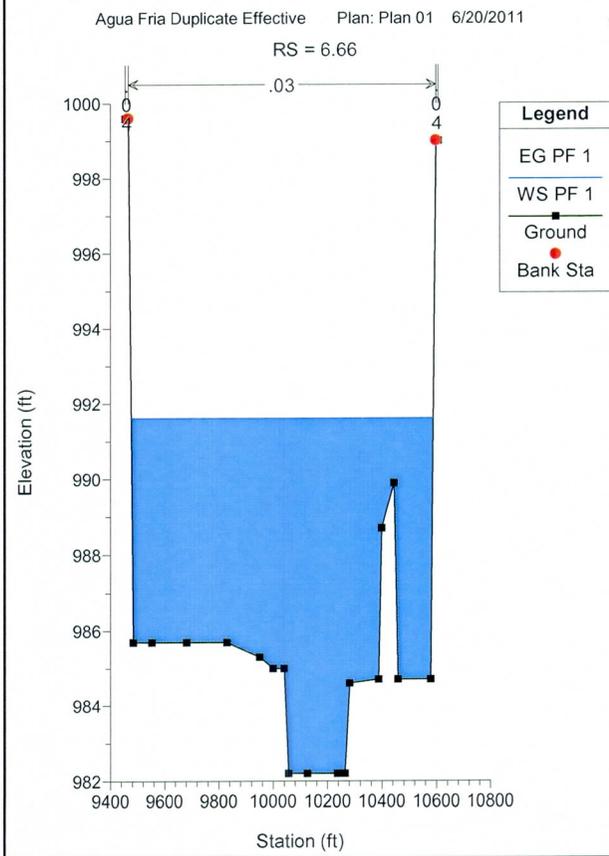
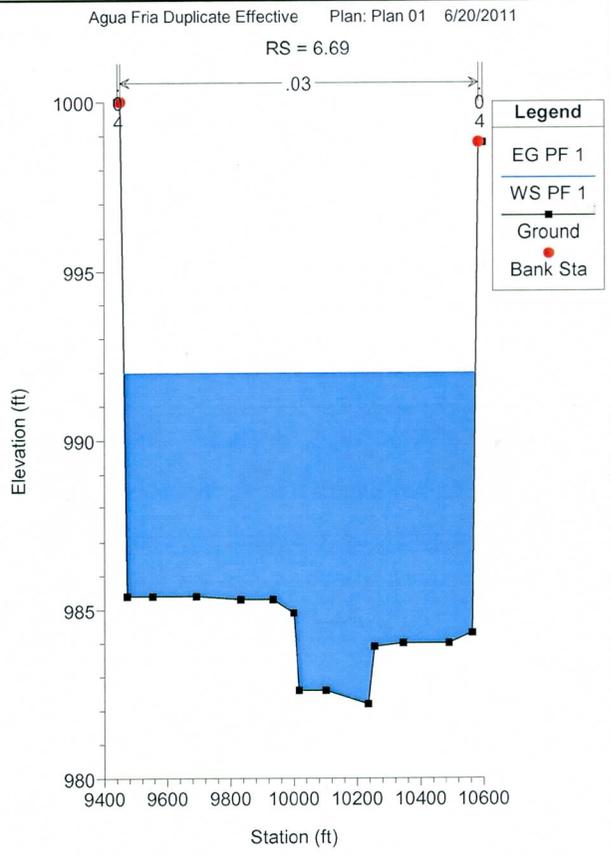
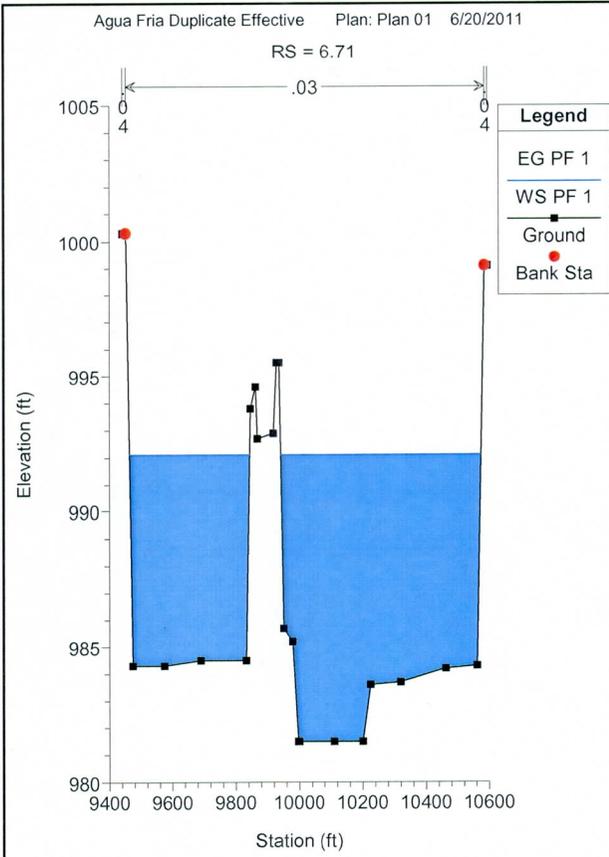


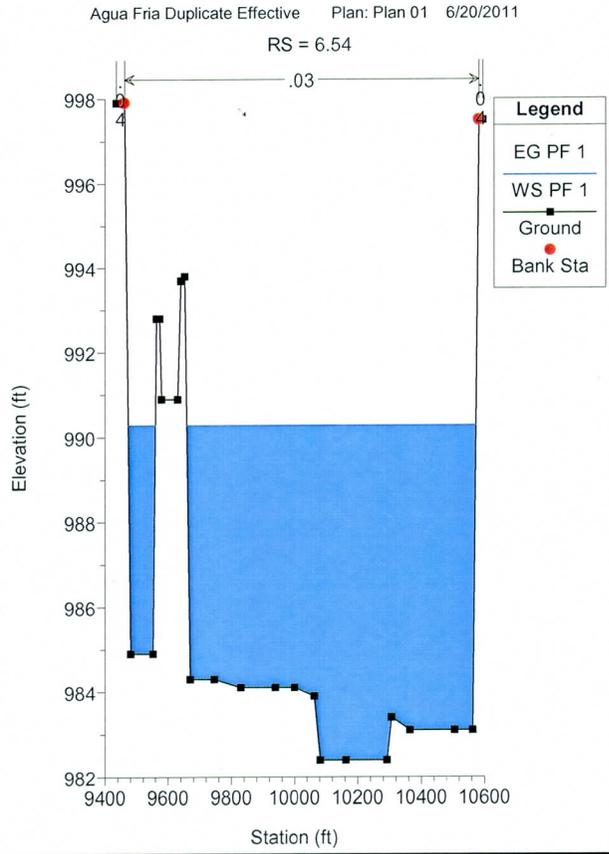
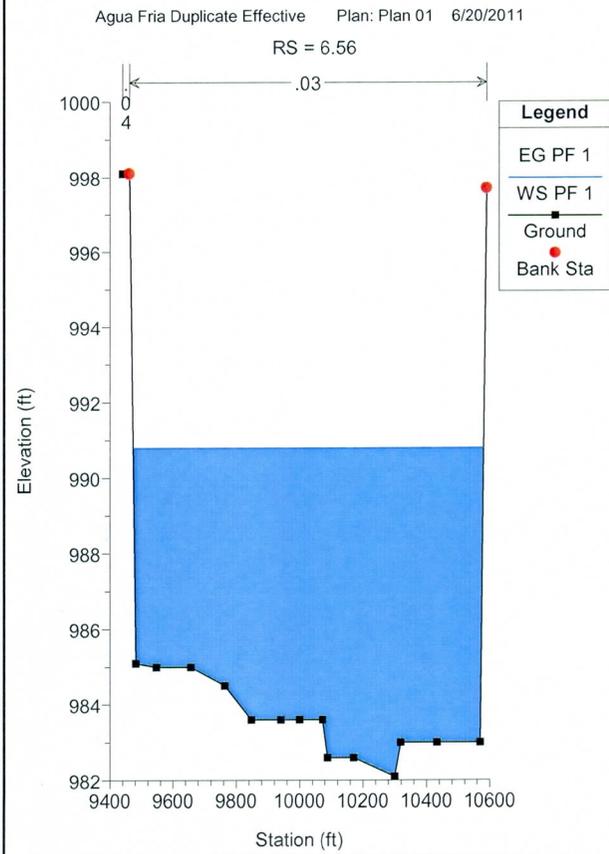
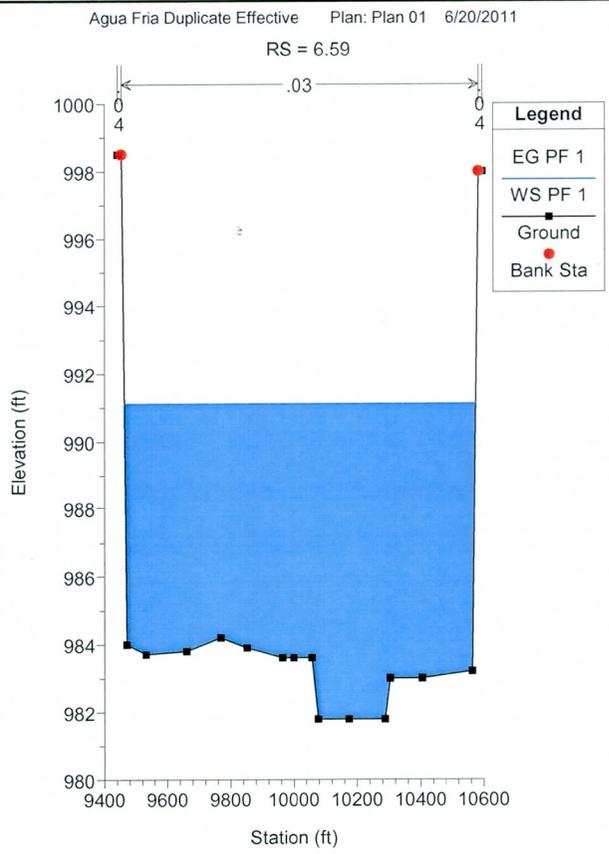
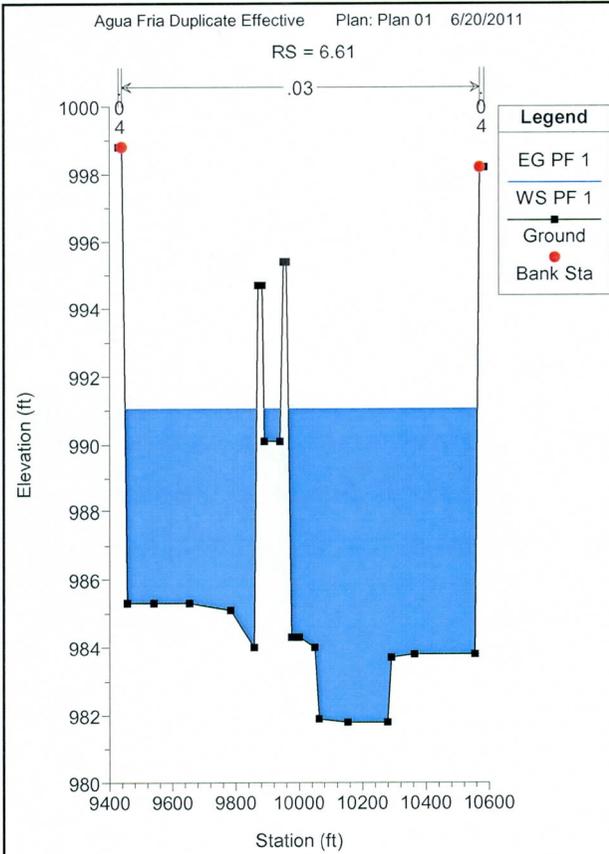


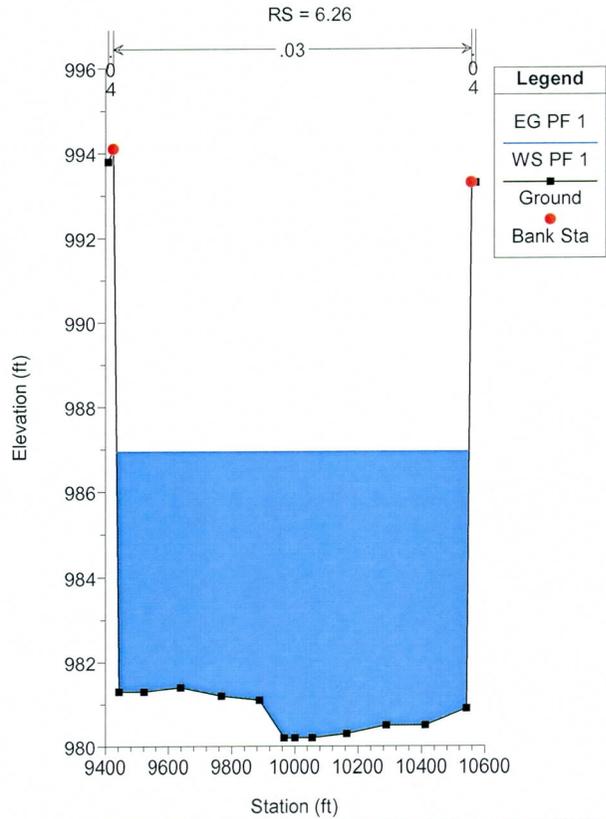
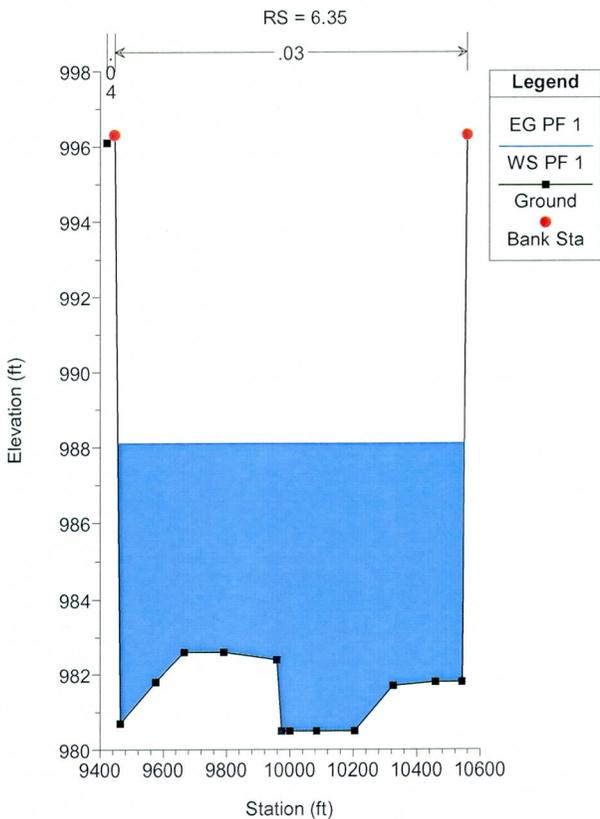
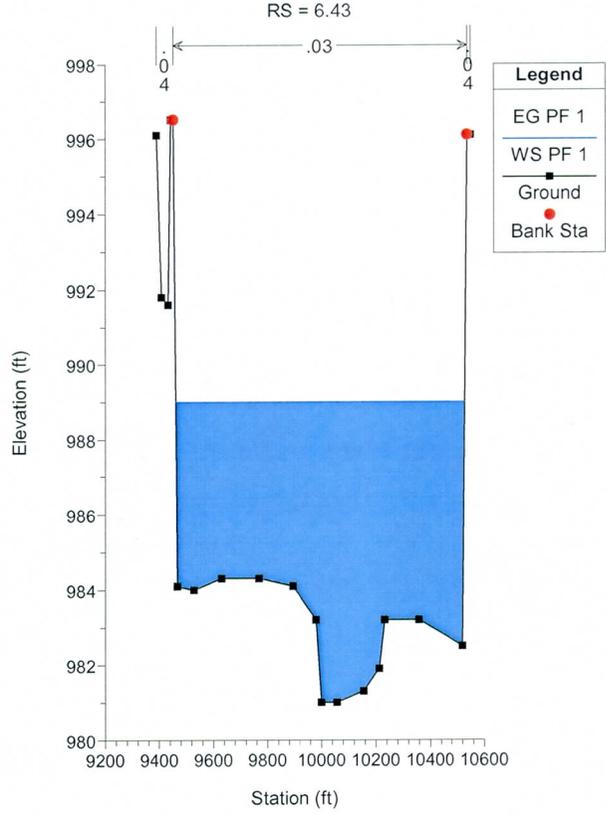
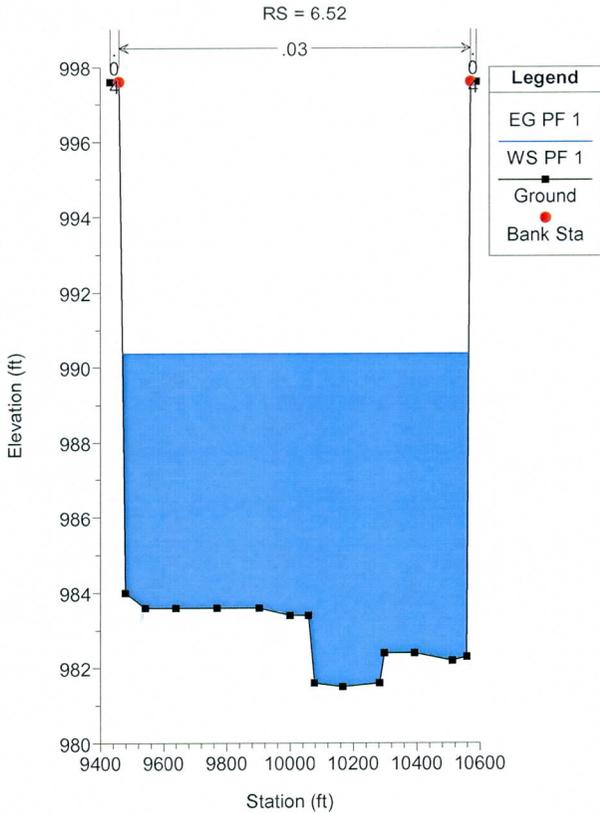




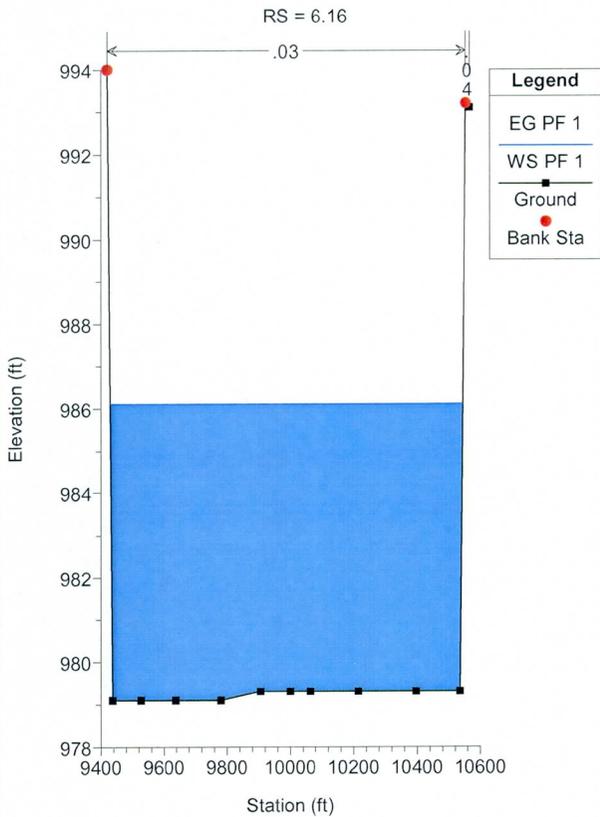




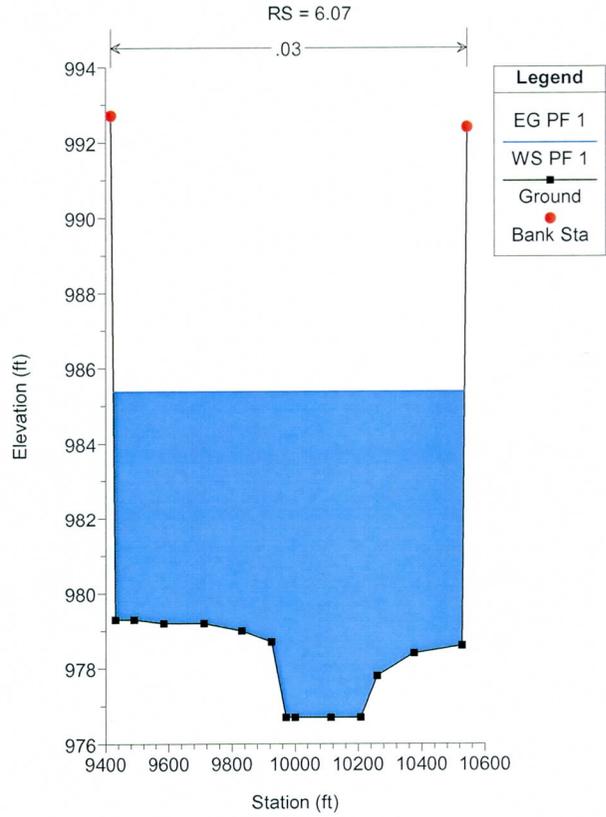




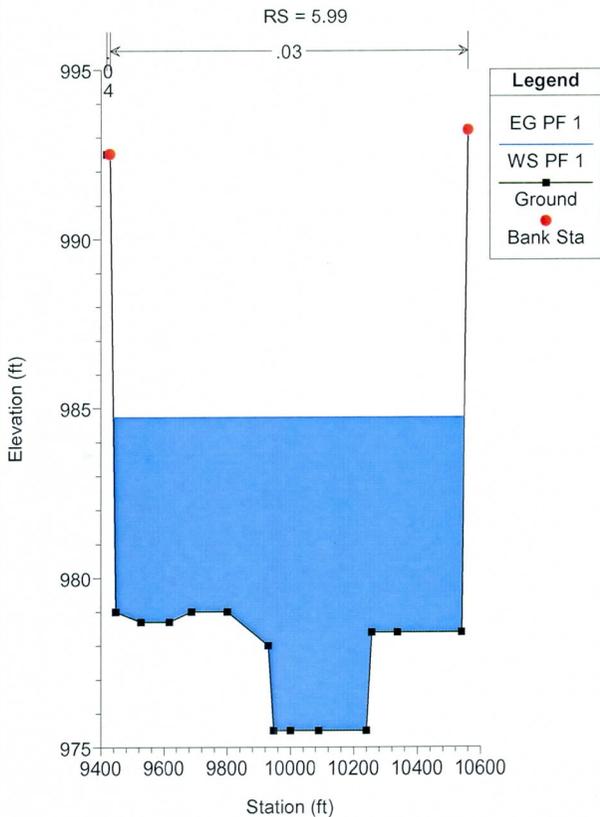
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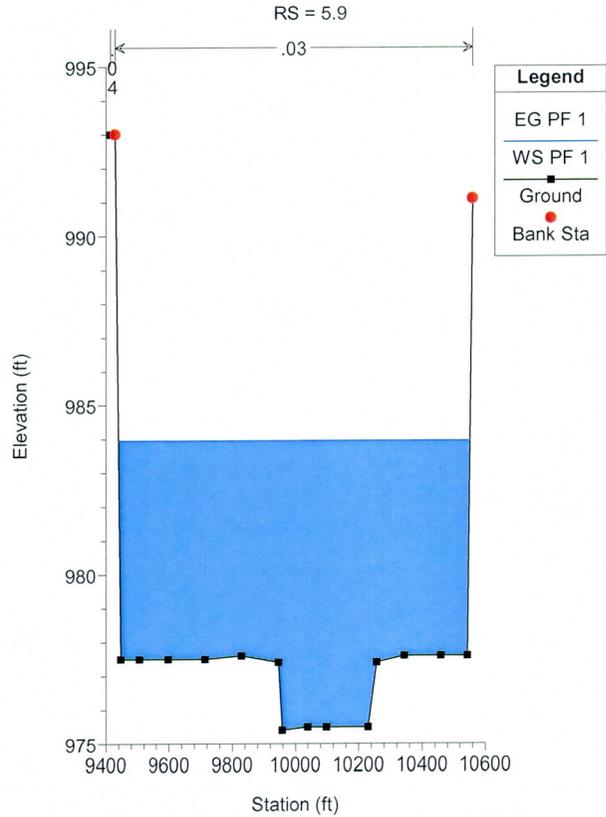
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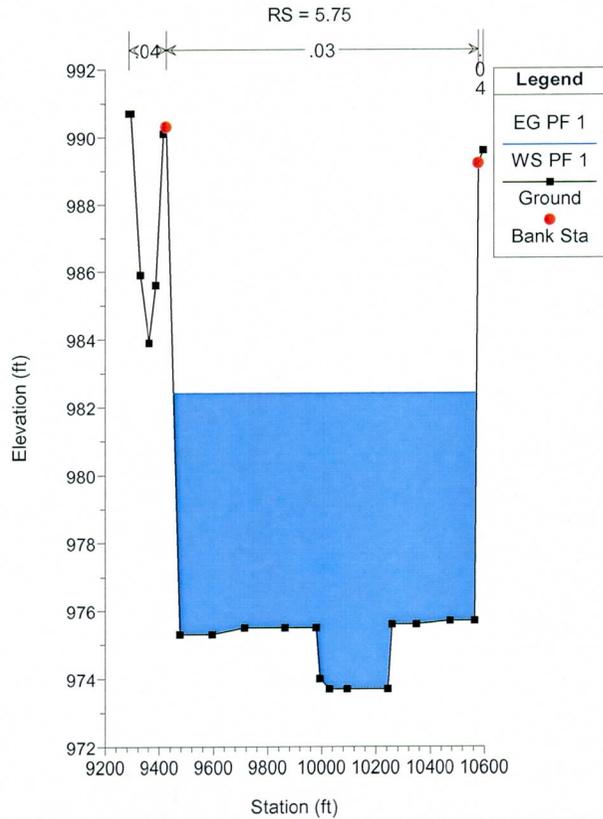
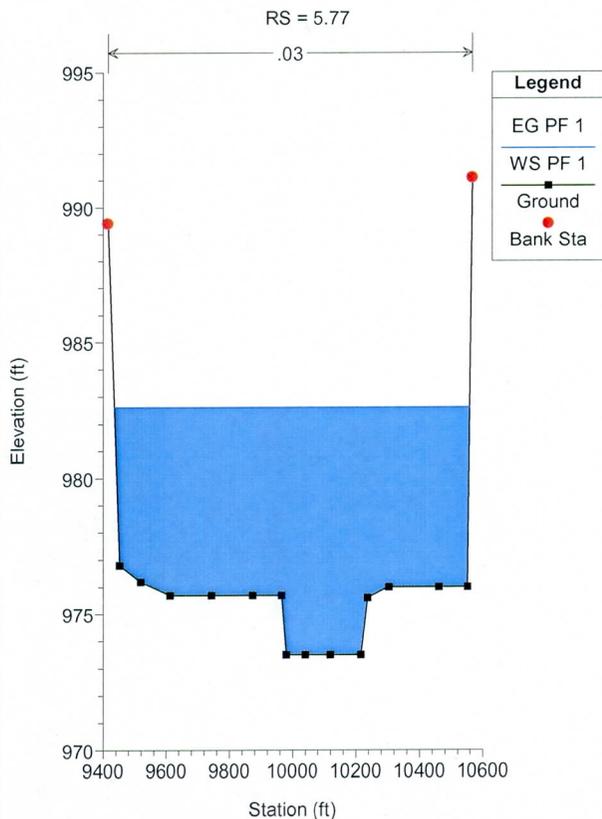
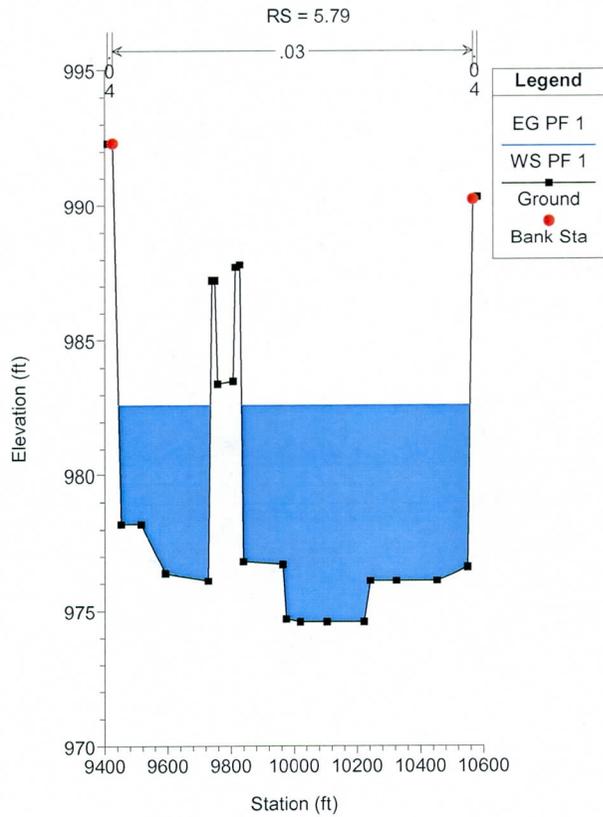
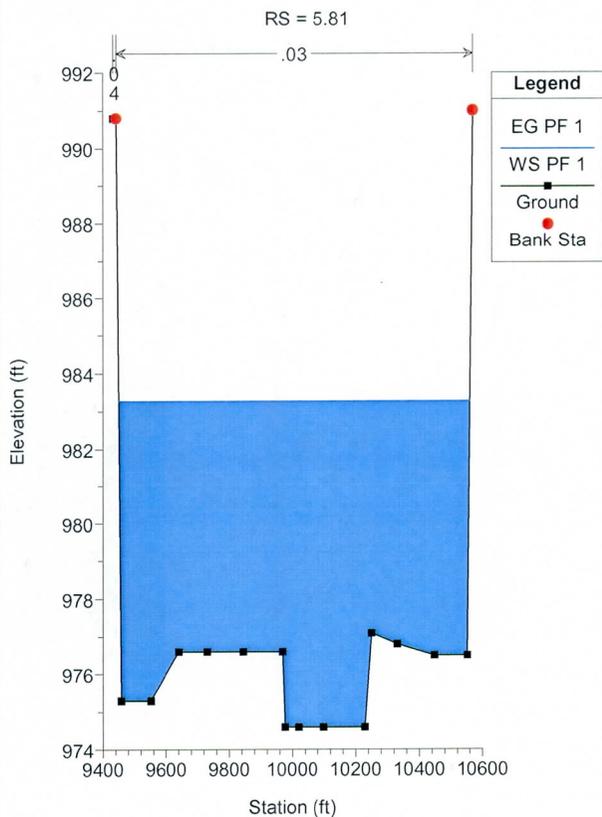


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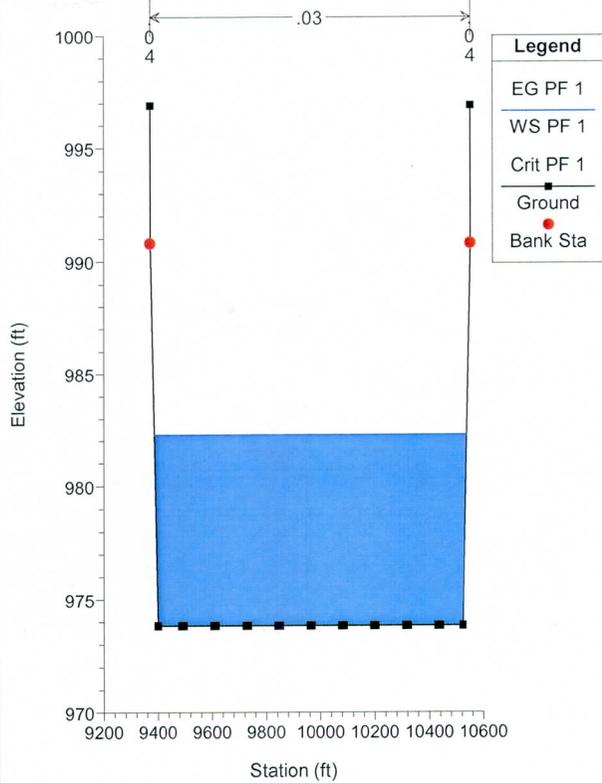
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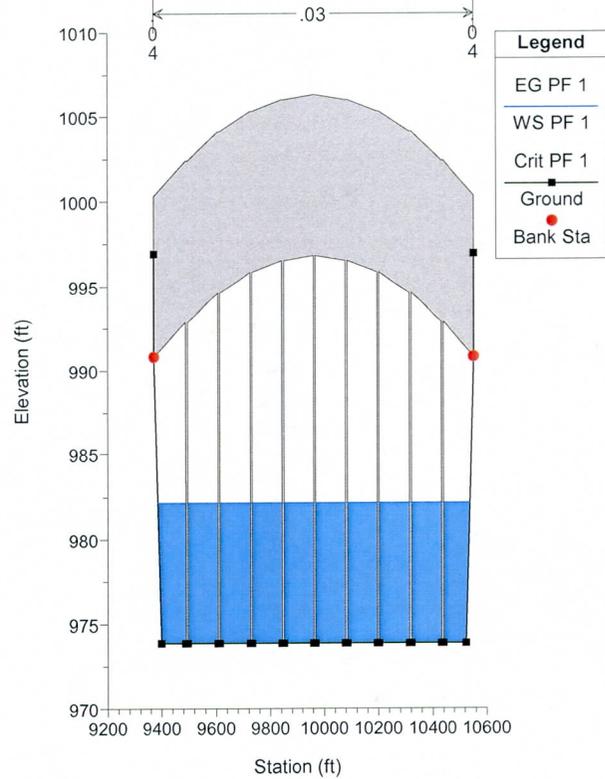
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RS = 5.7 This is a REPEATED section.



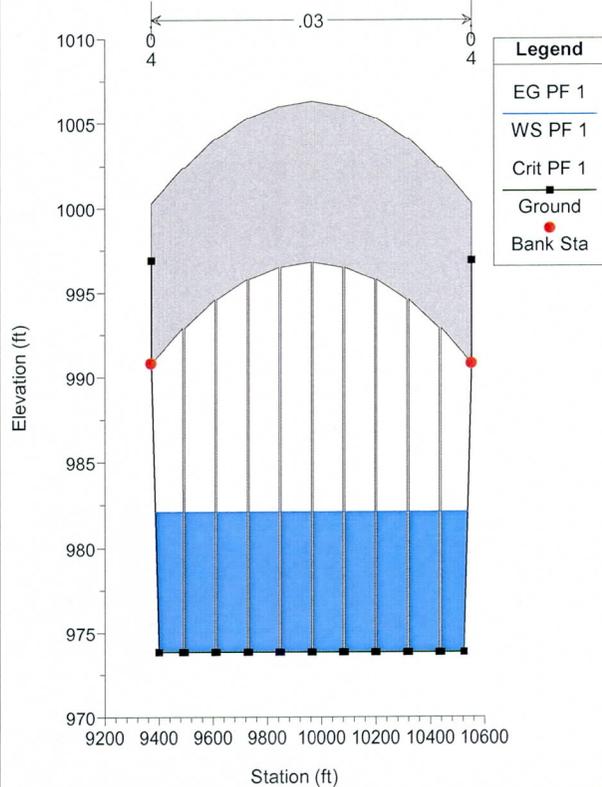
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RS = 5.6945 BR Bridge #4



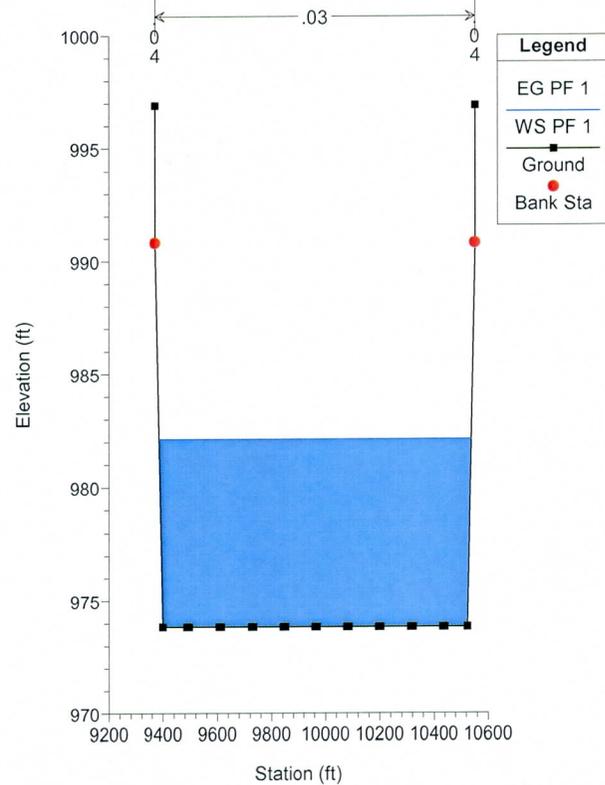
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RS = 5.6945 BR Bridge #4

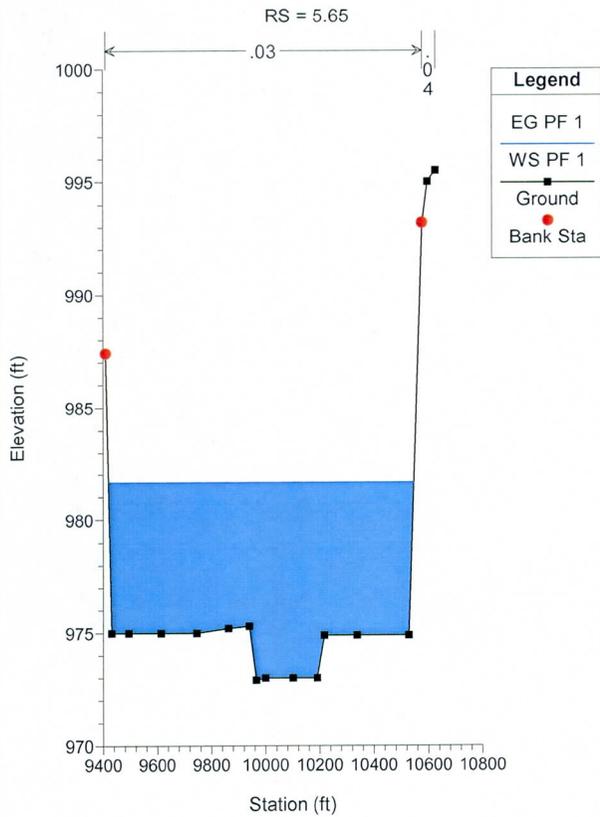


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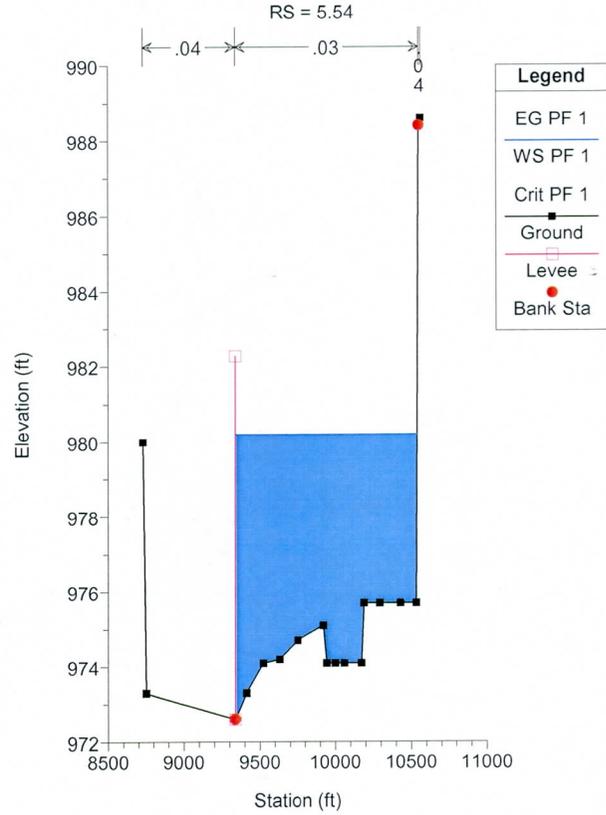
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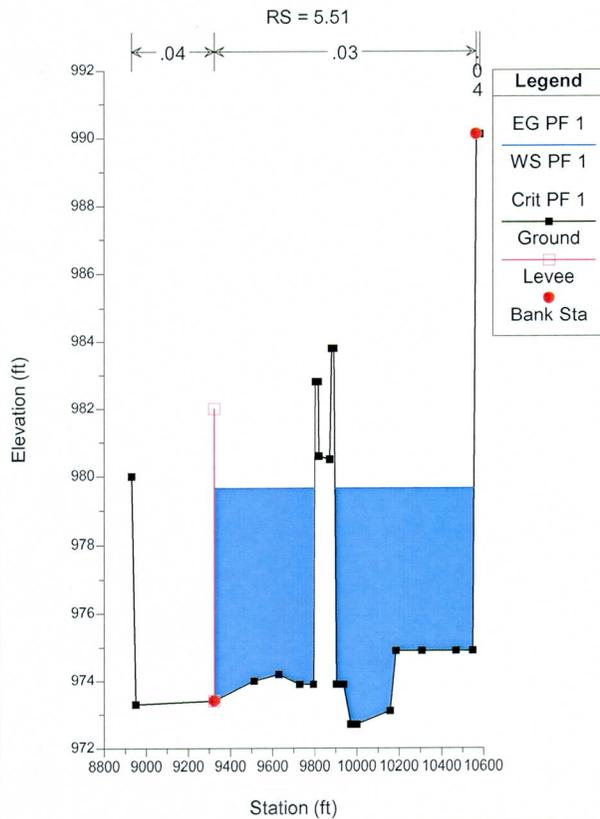
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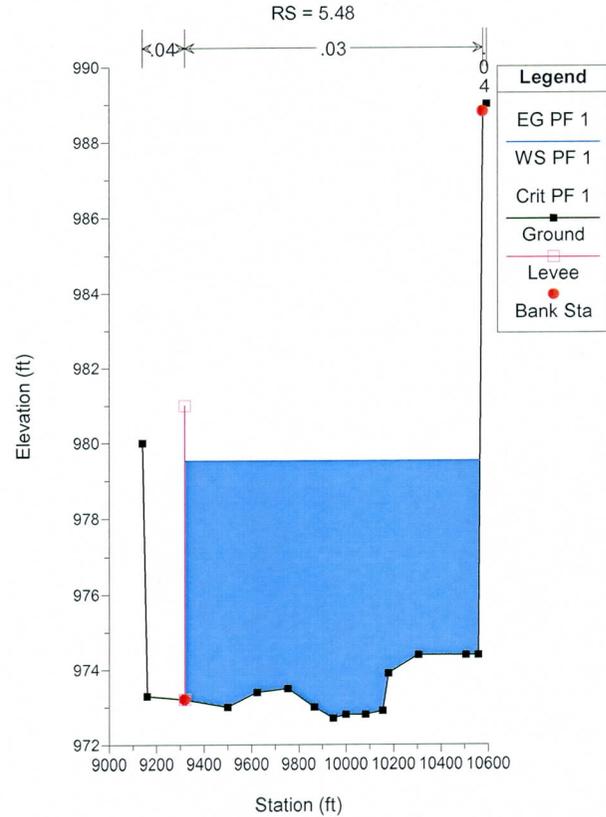
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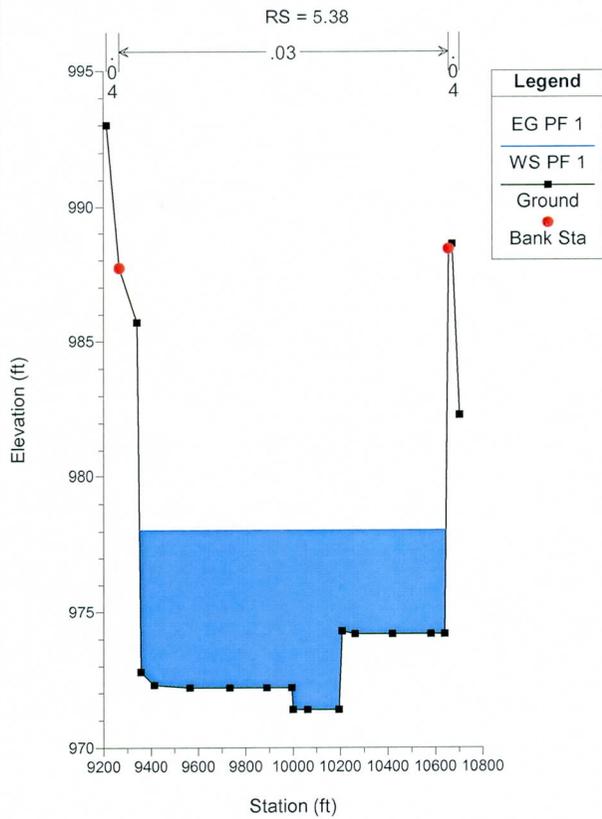
Agua Fria Duplicate Effective Plan: Plan 01 6/20/2011



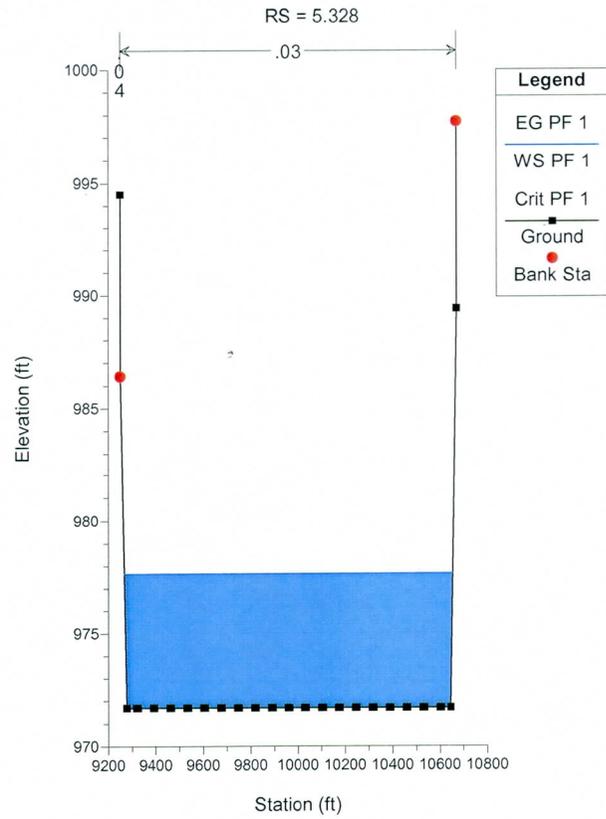
Agua Fria Duplicate Effective Plan: Plan 01 6/20/2011



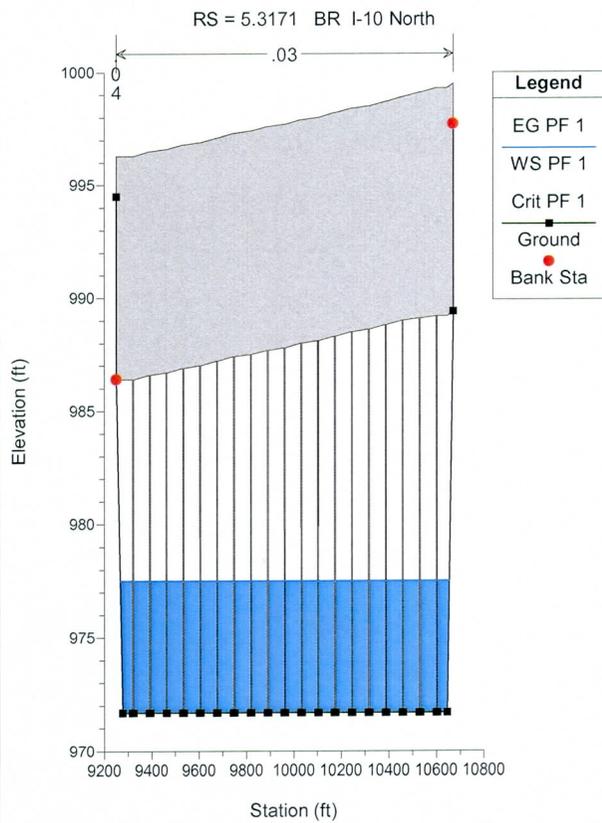
Agua Fria Duplicate Effective Plan: Plan 01 6/20/2011



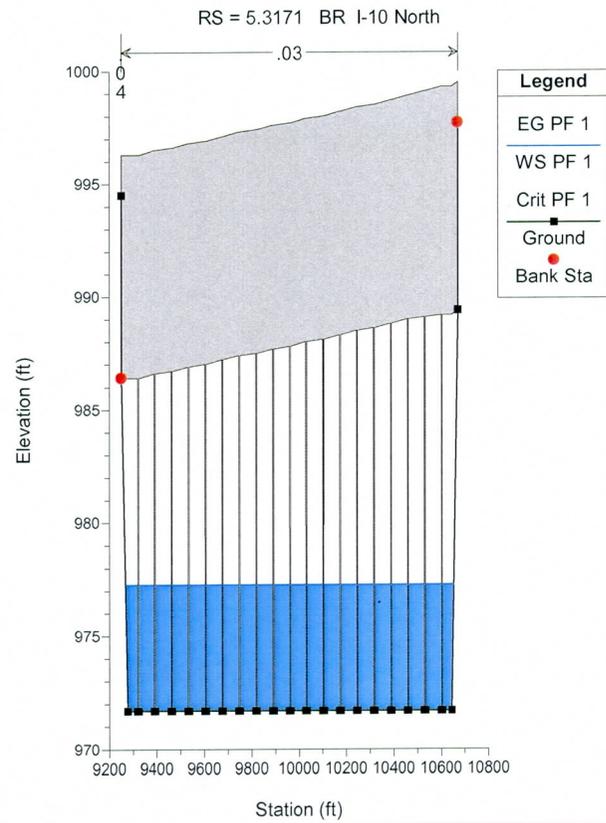
Agua Fria Duplicate Effective Plan: Plan 01 6/20/2011

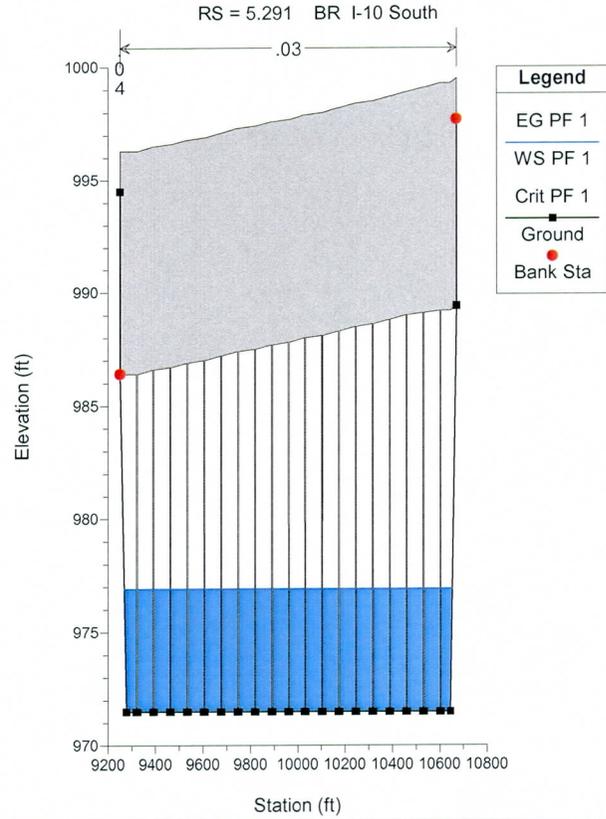
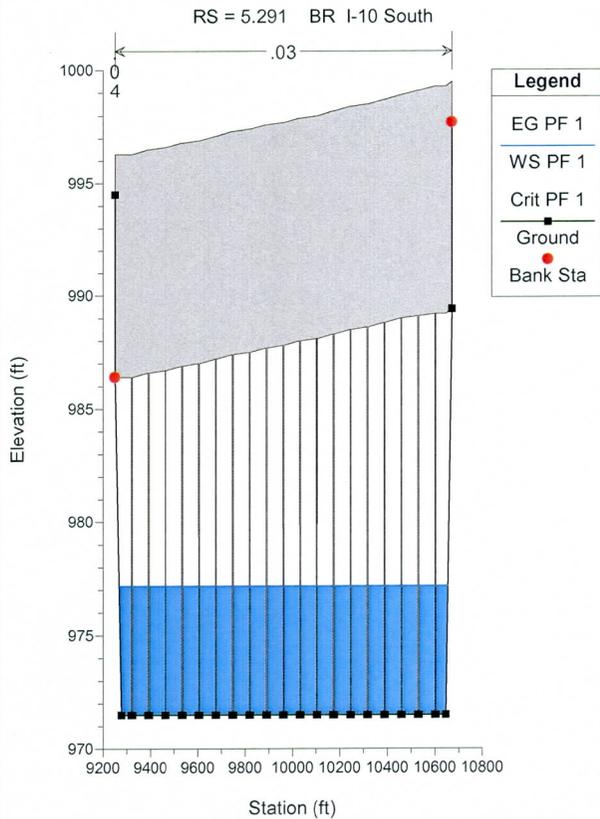
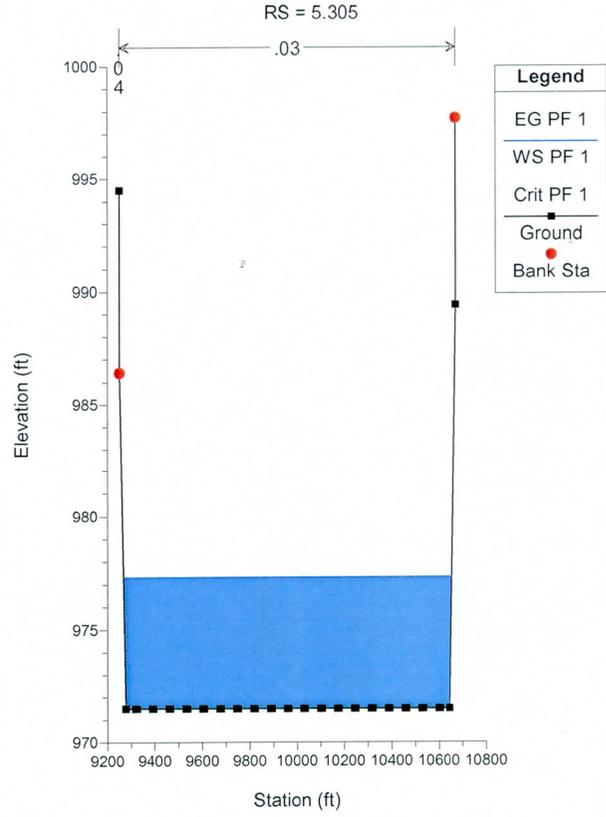
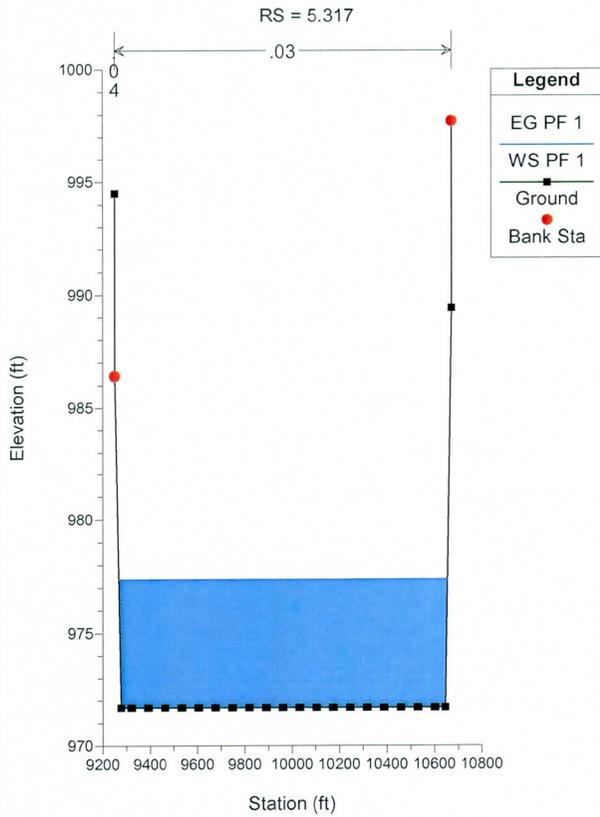


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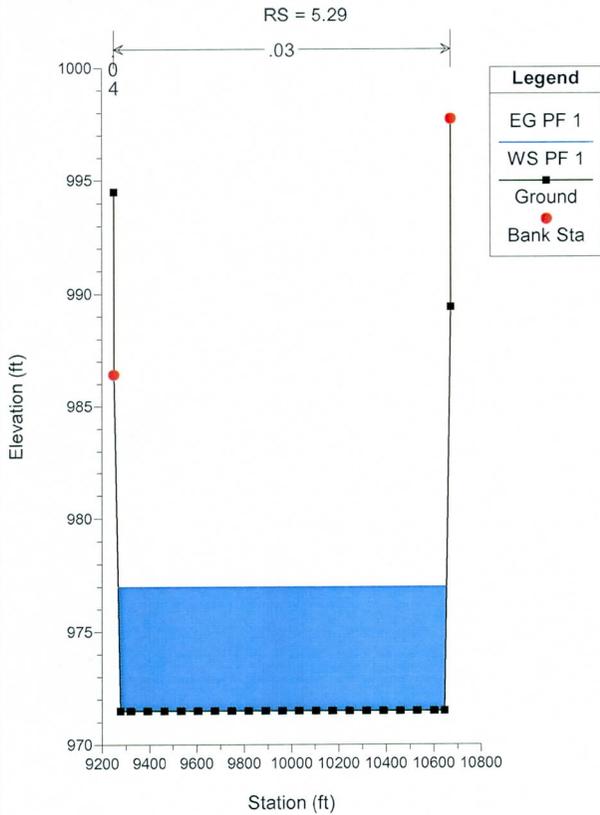


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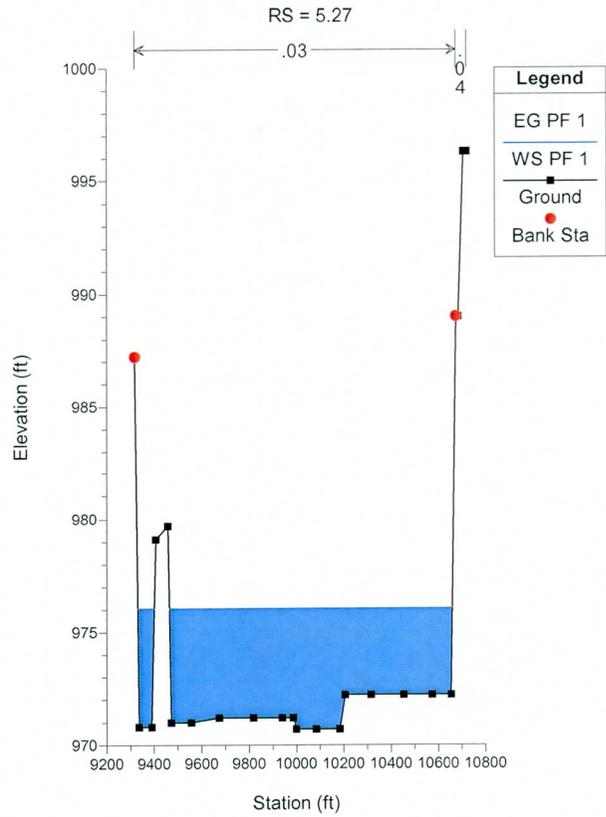




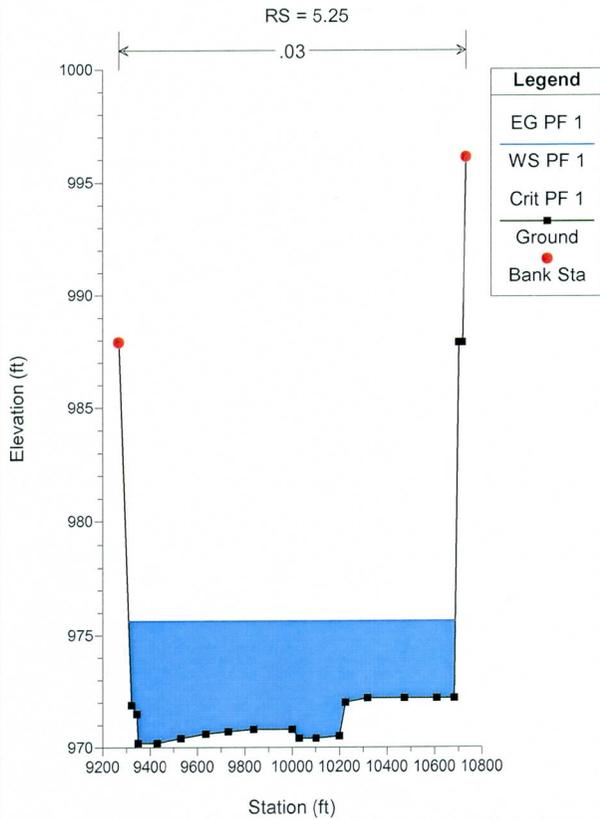
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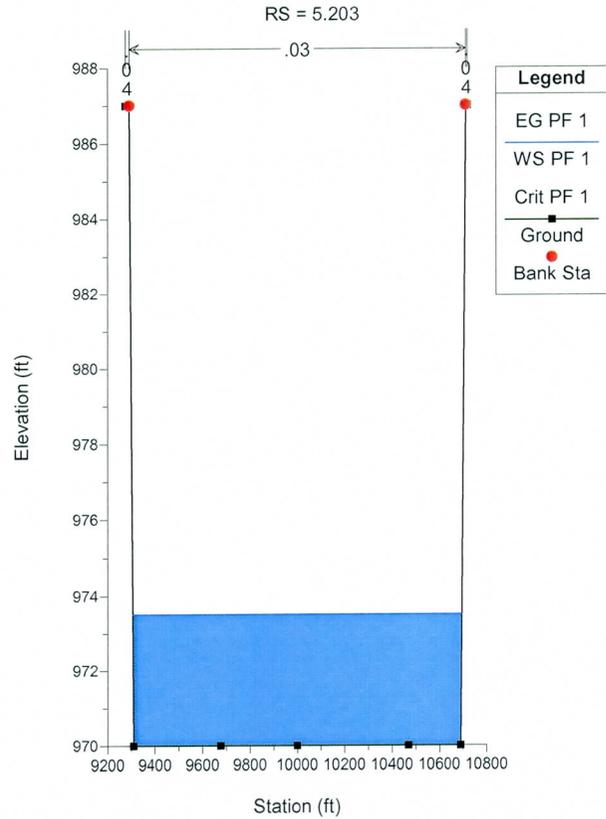
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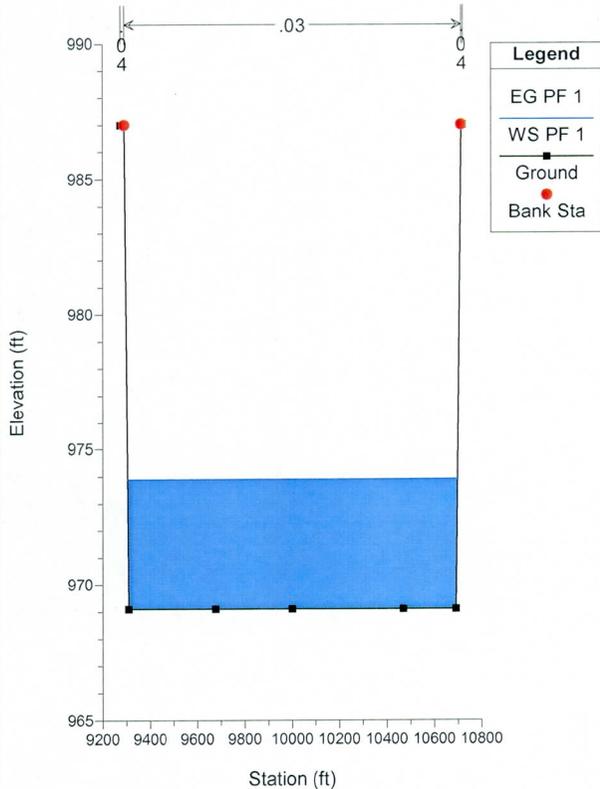


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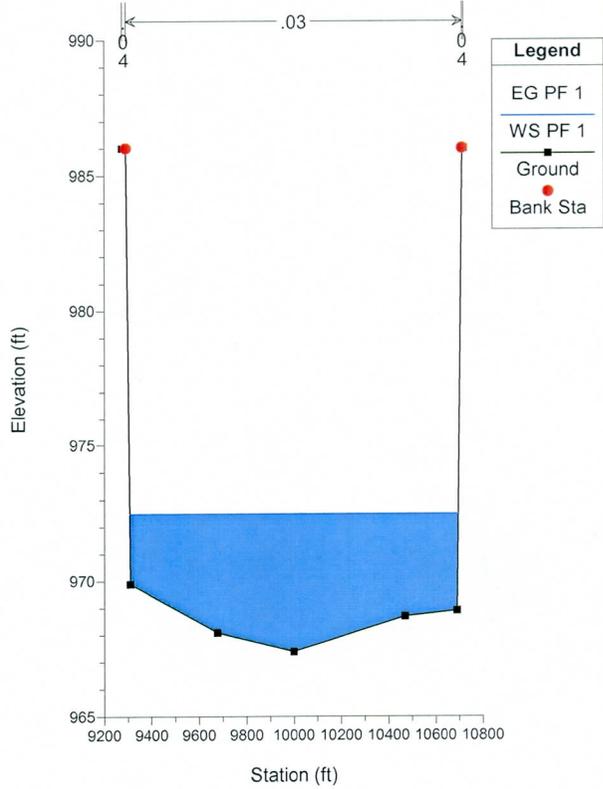
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RS = 5.201



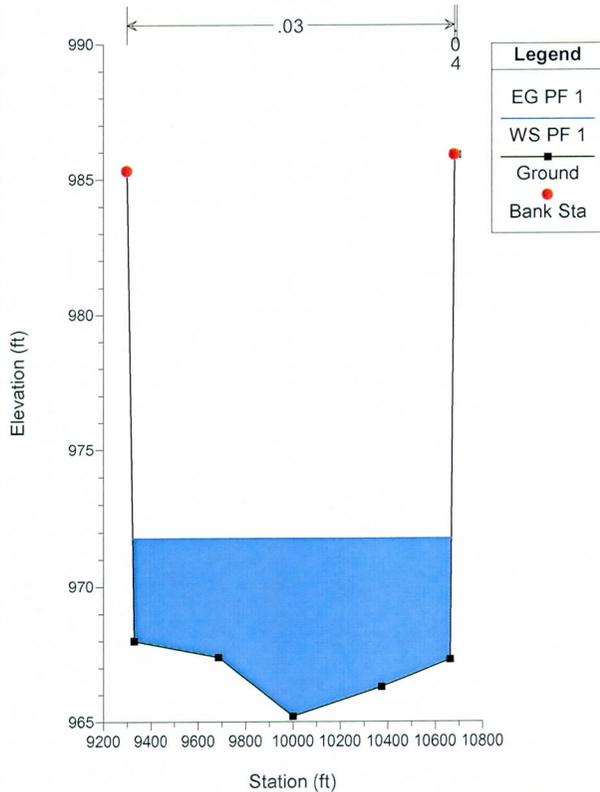
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RS = 5.15



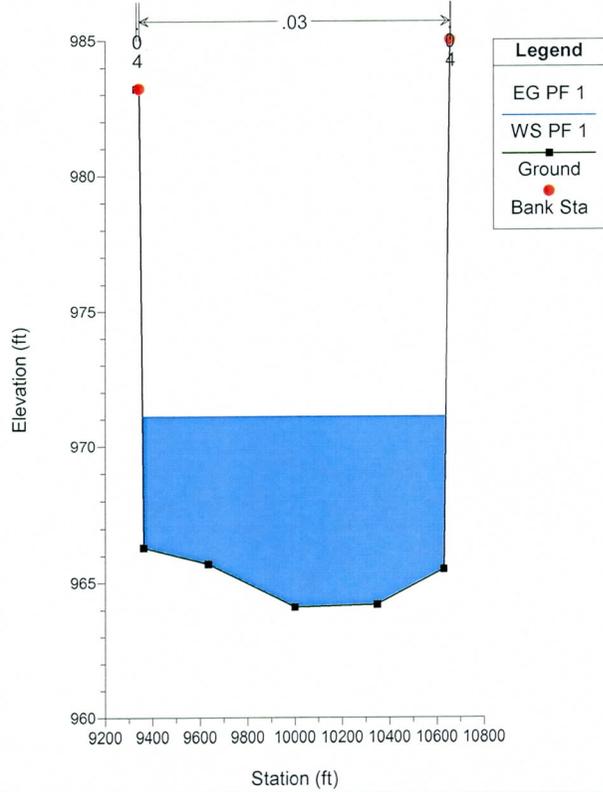
Agua Fria Duplicate Effective Plan: Plan 01 6/20/2011

RS = 5.1

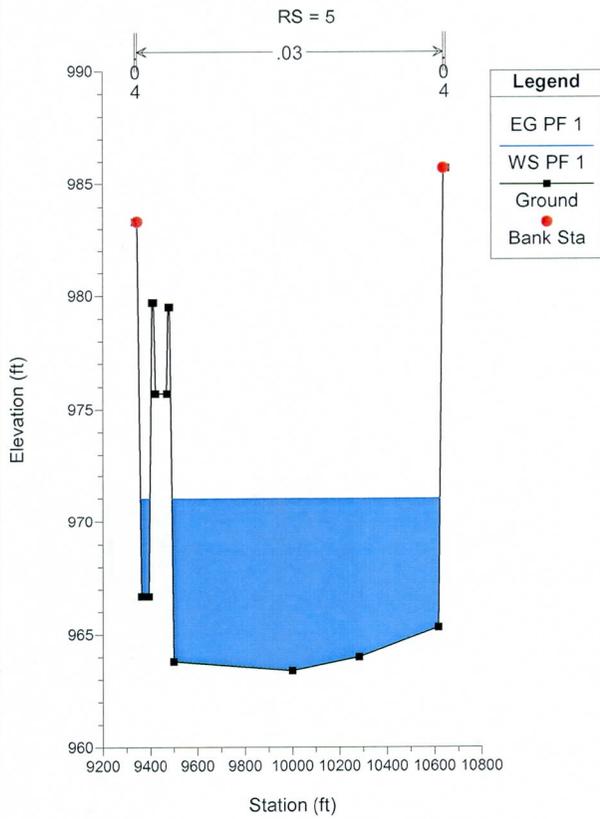


Agua Fria Duplicate Effective Plan: Plan 01 6/20/2011

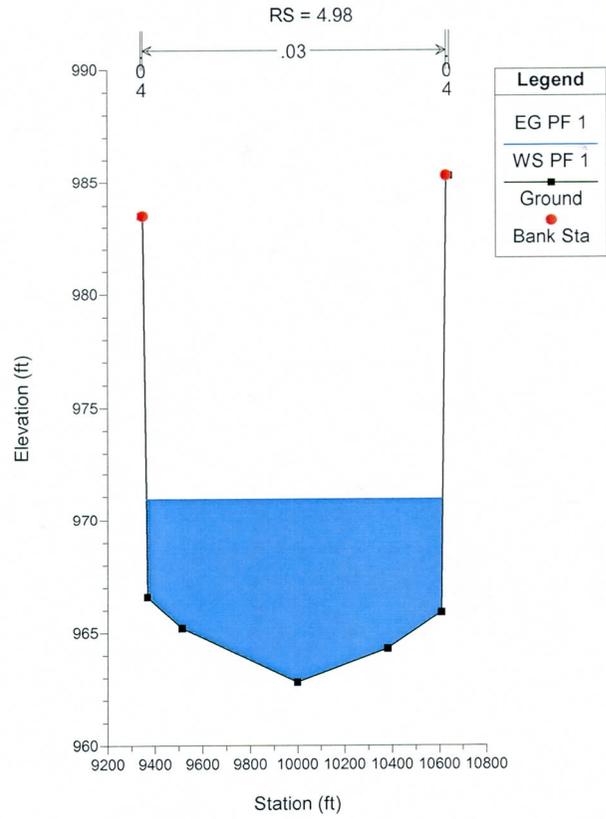
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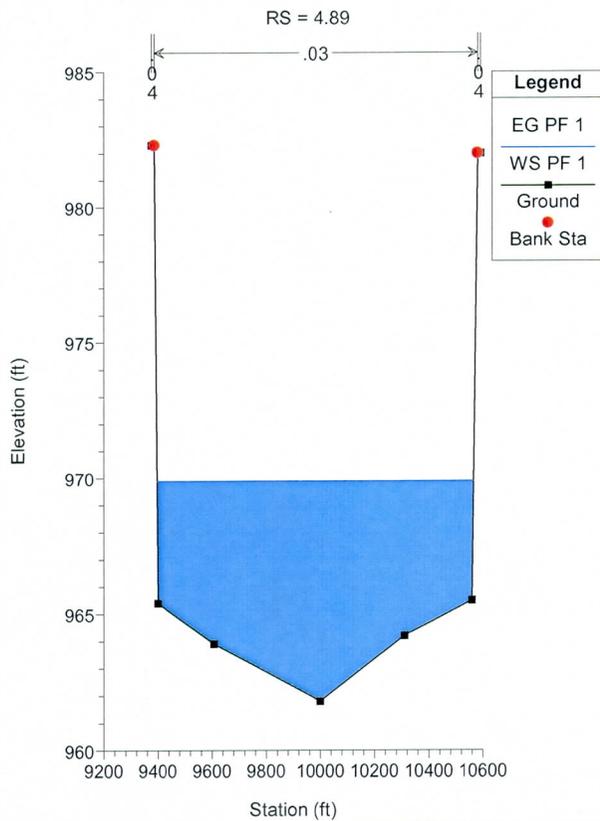
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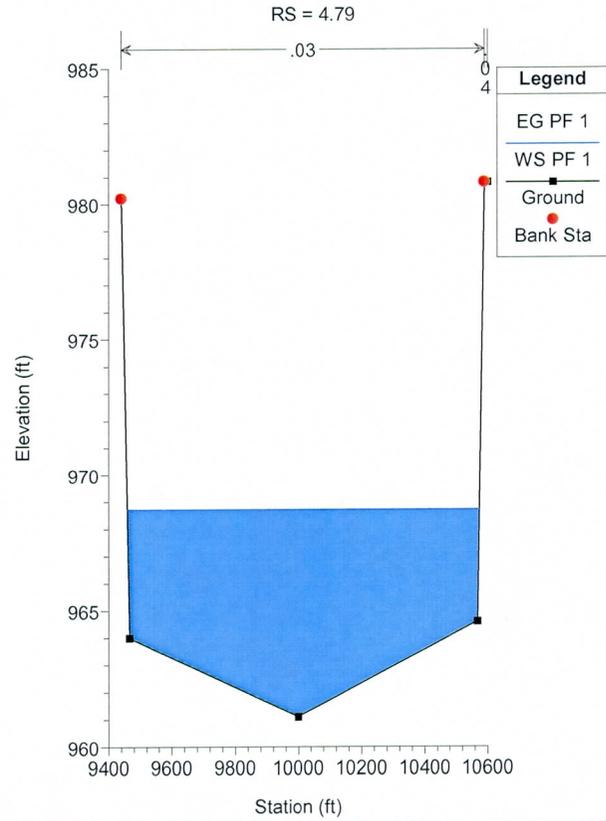
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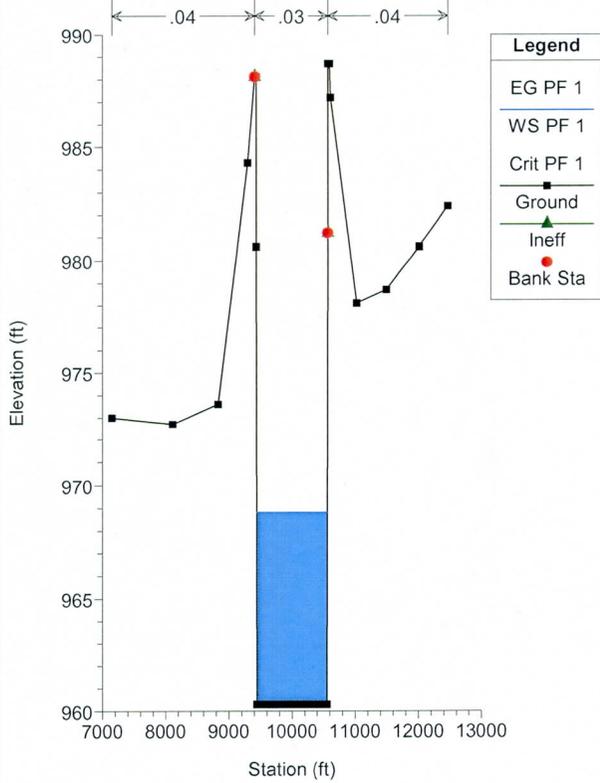
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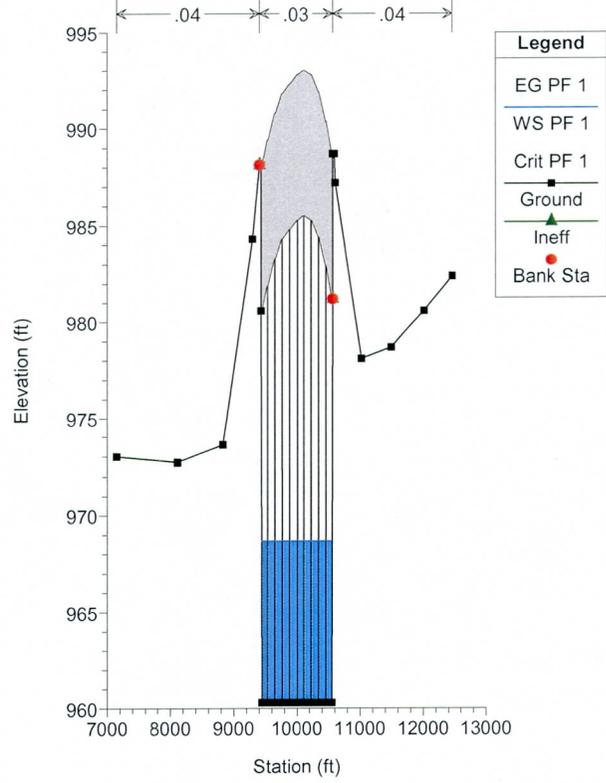
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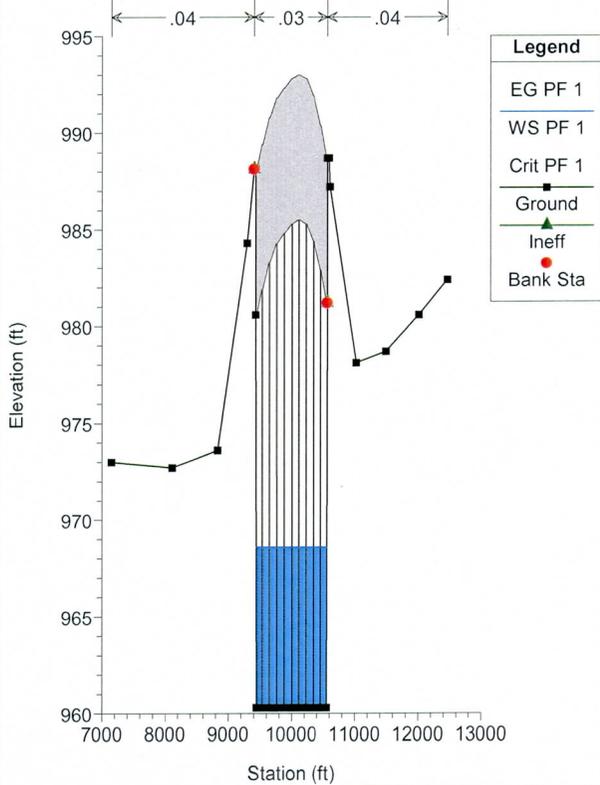
RS = 4.759 This is a REPEATED section.



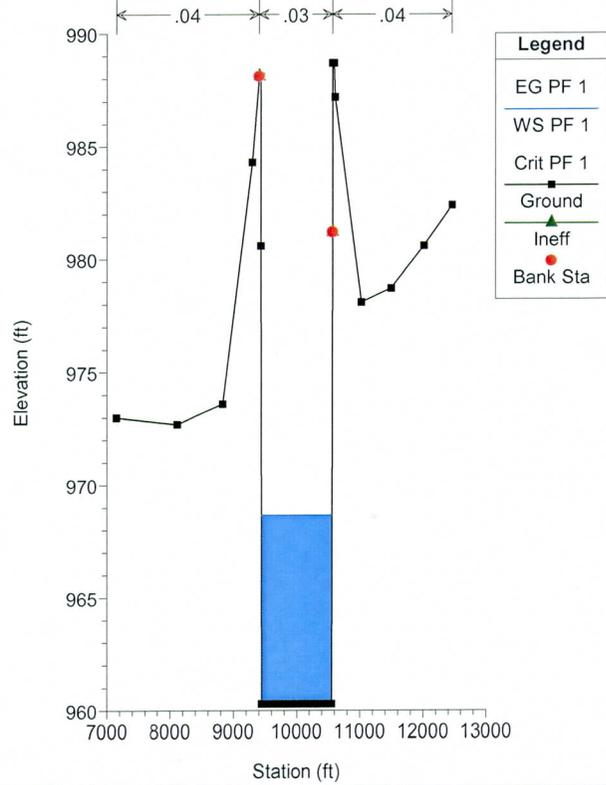
RS = 4.7565 BR Bridge #3

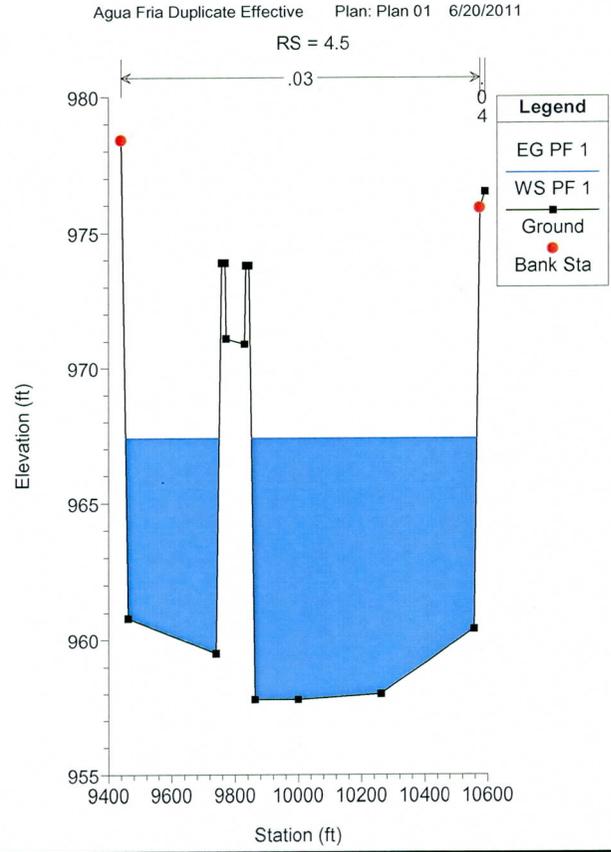
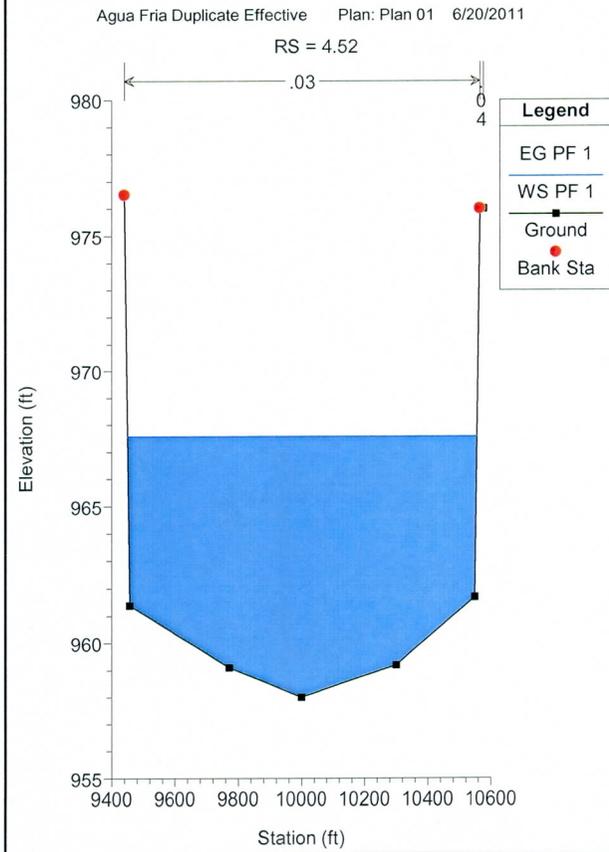
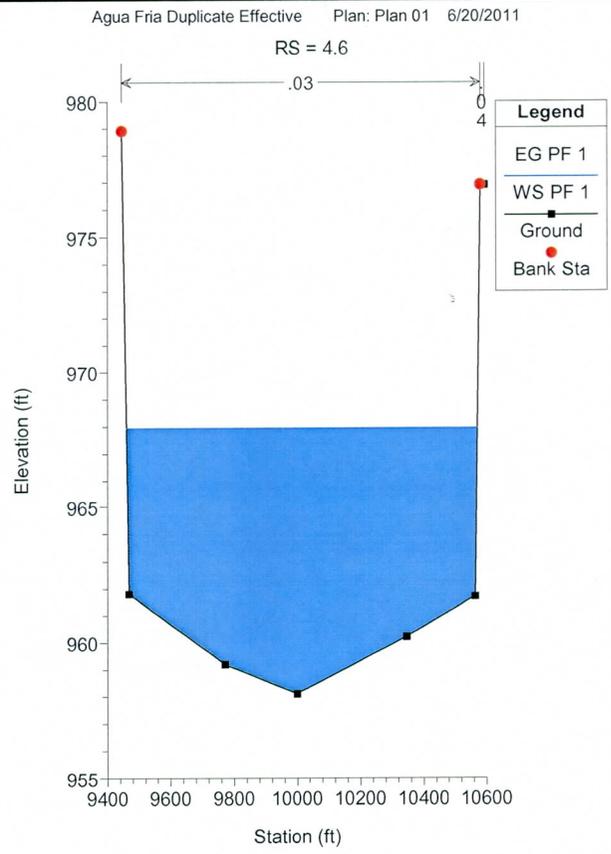
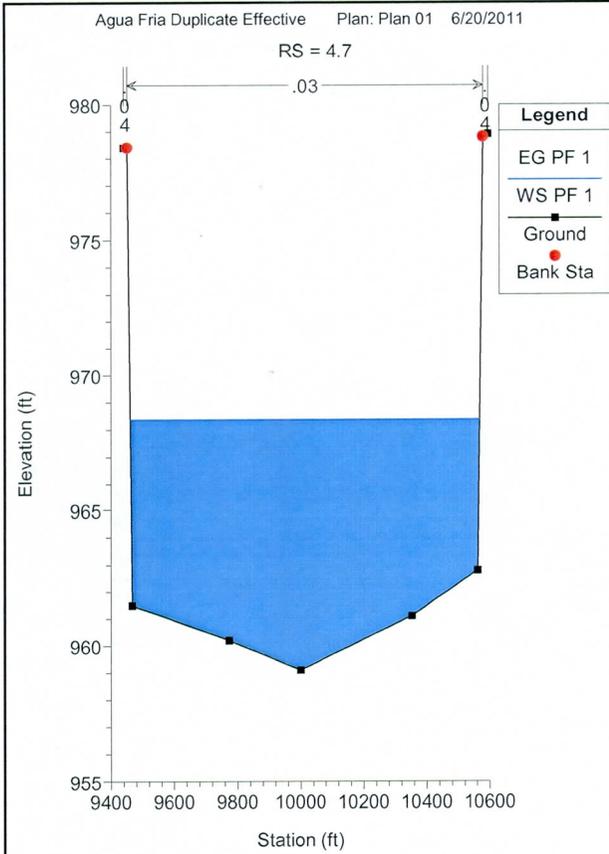


RS = 4.7565 BR Bridge #3

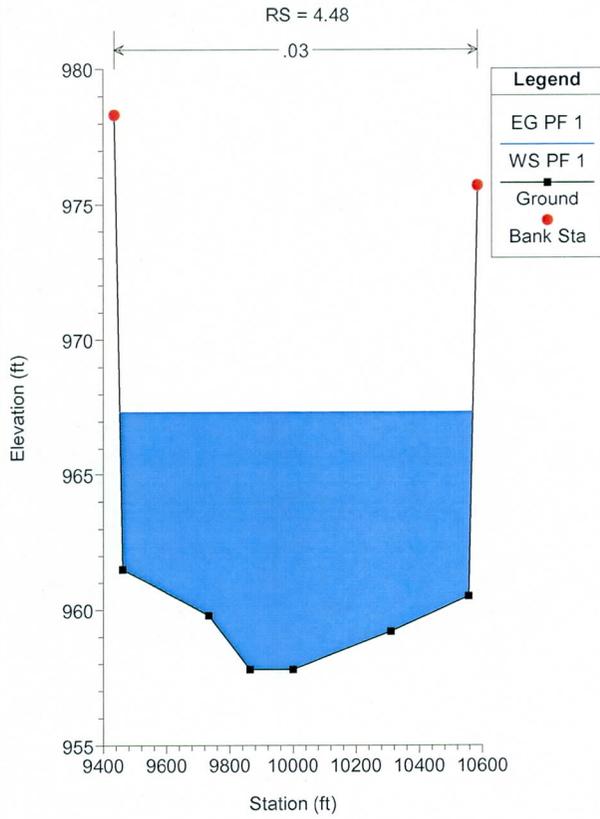


RS = 4.754

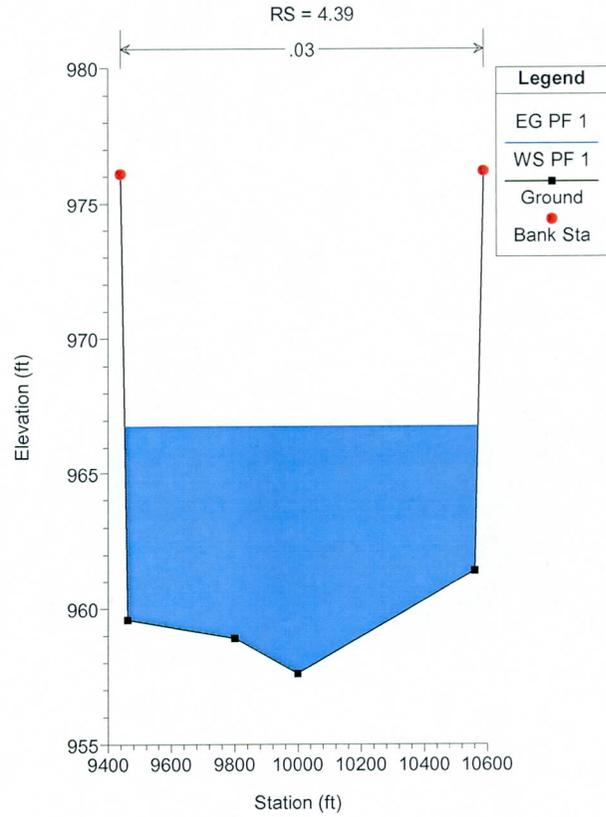




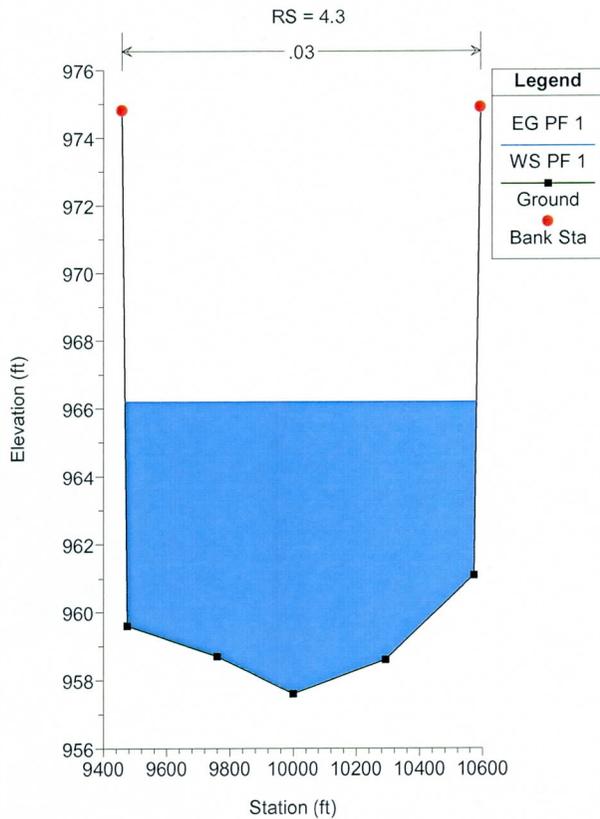
Agua Fria Duplicate Effective Plan: Plan 01 6/20/2011



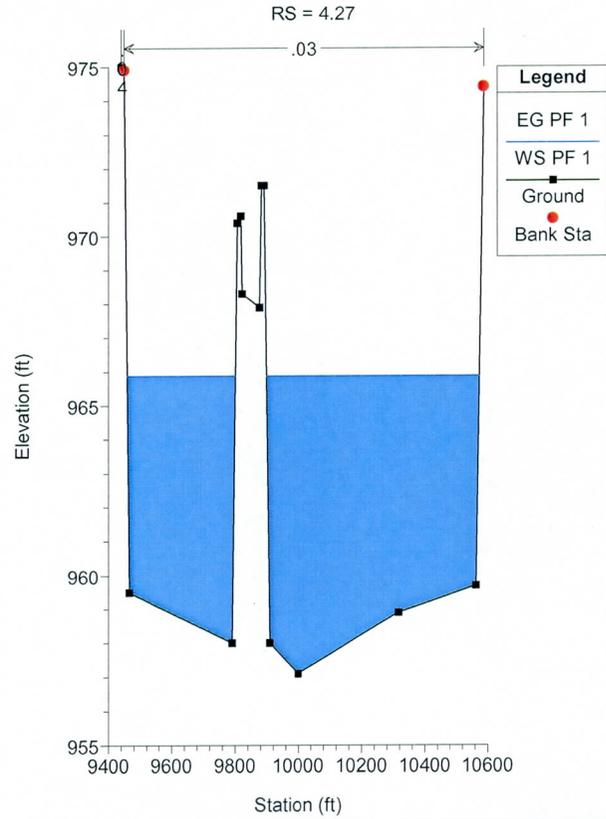
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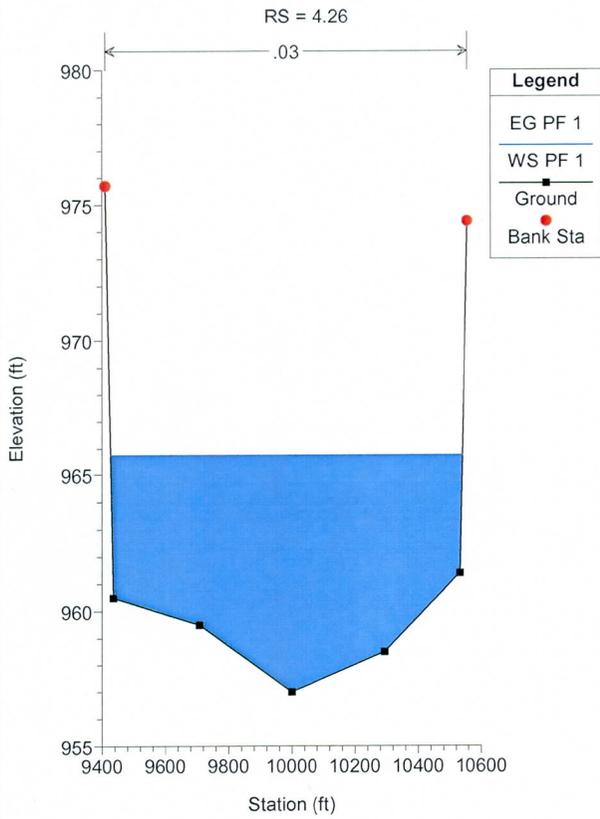
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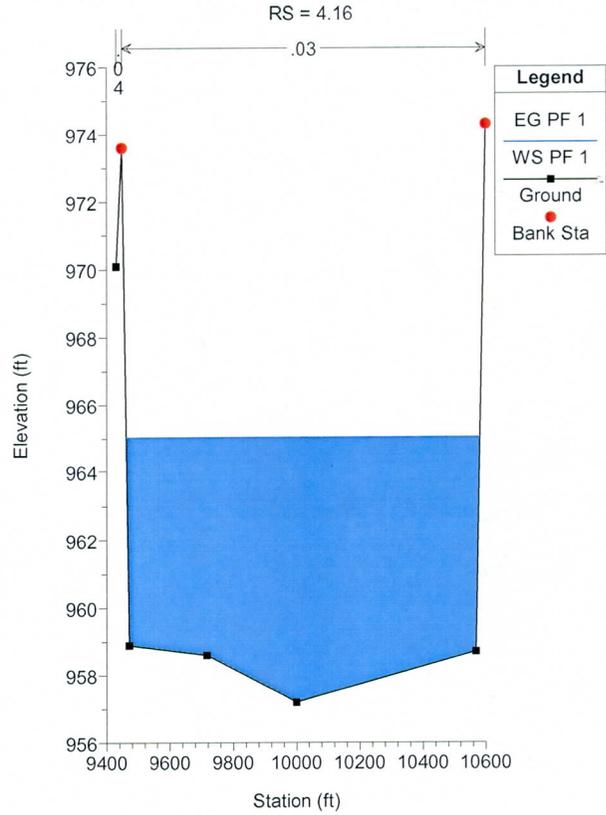
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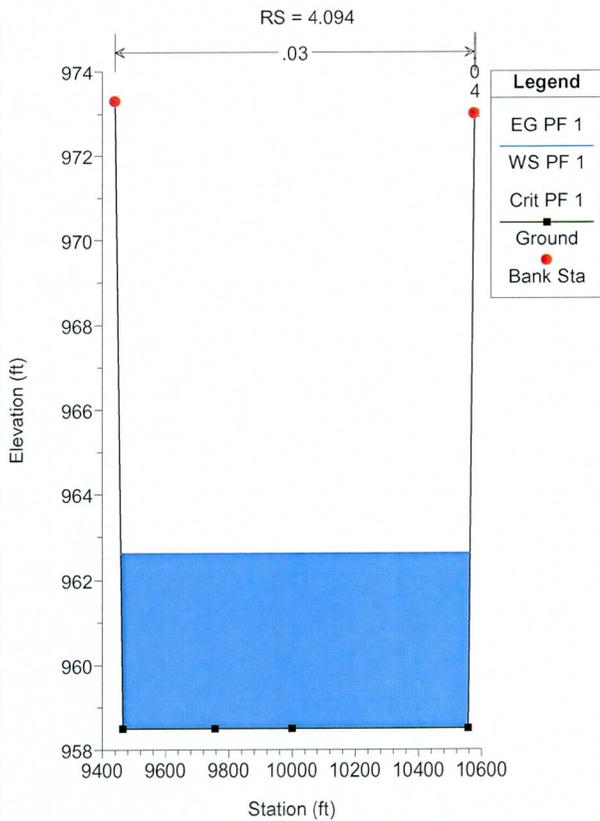
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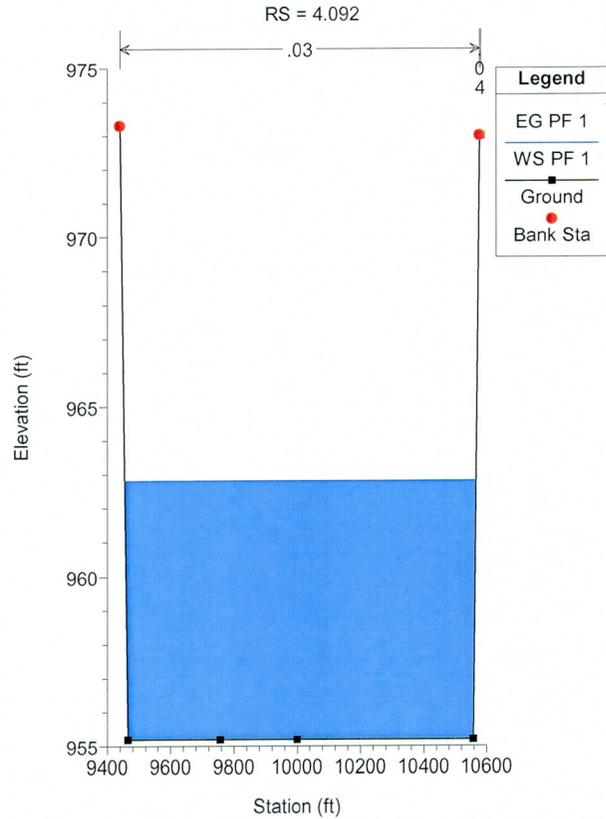
Agua Fria Duplicate Effective Plan: Plan 01 6/20/2011



Agua Fria Duplicate Effective Plan: Plan 01 6/20/2011

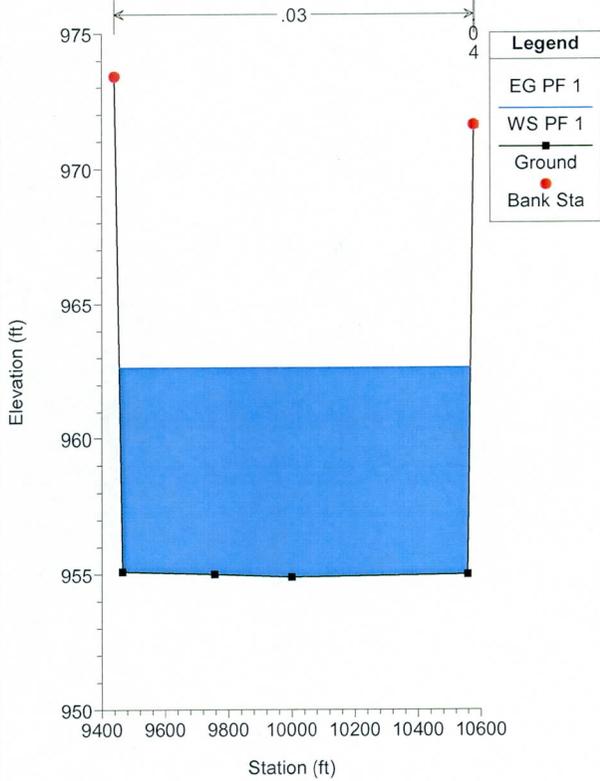


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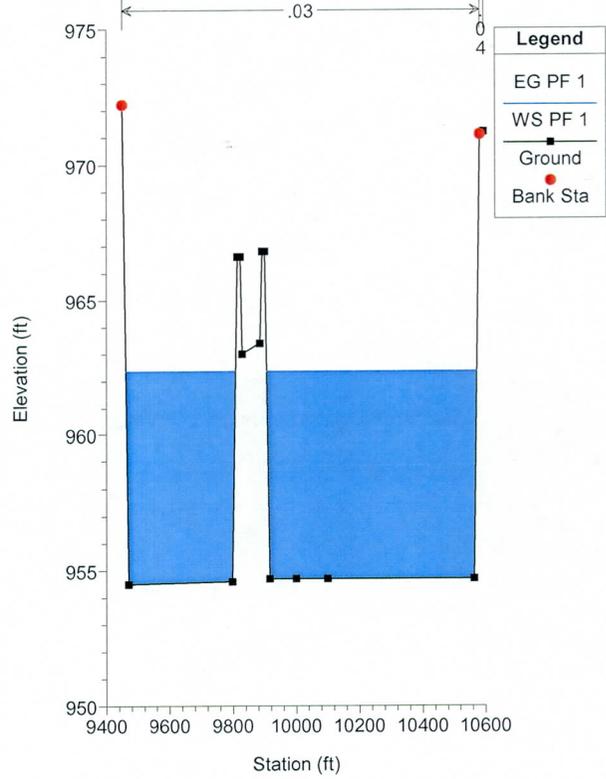
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RS = 4.06



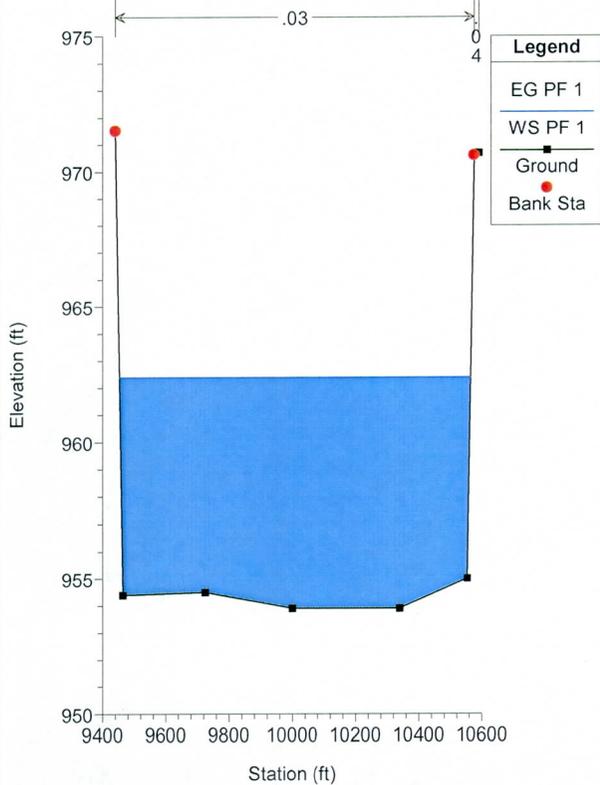
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RS = 4.04



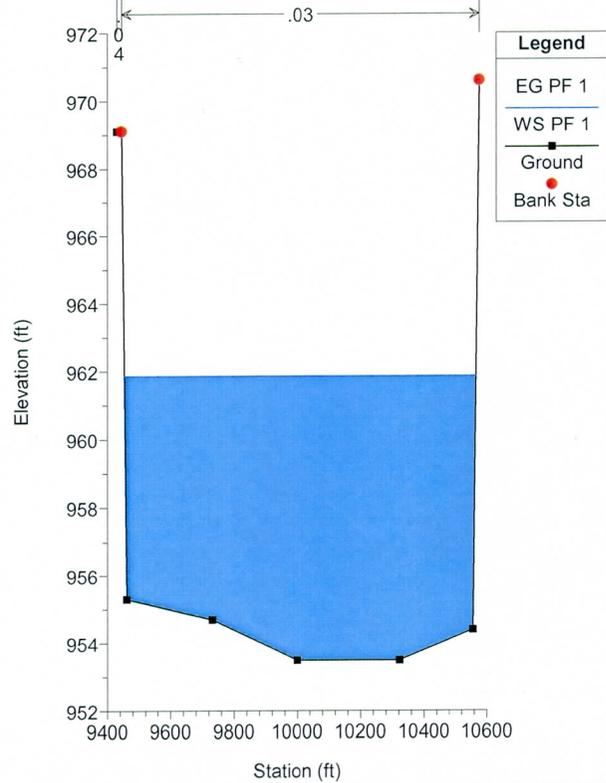
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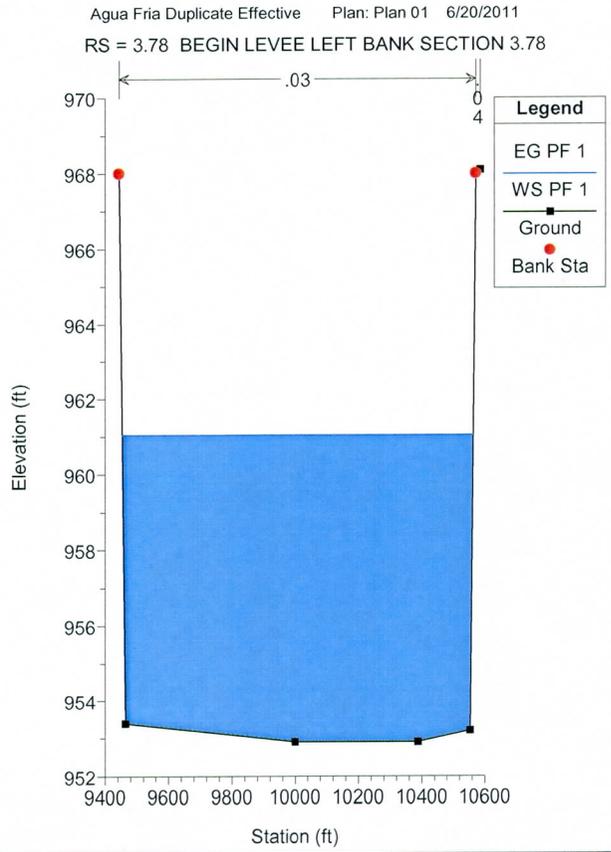
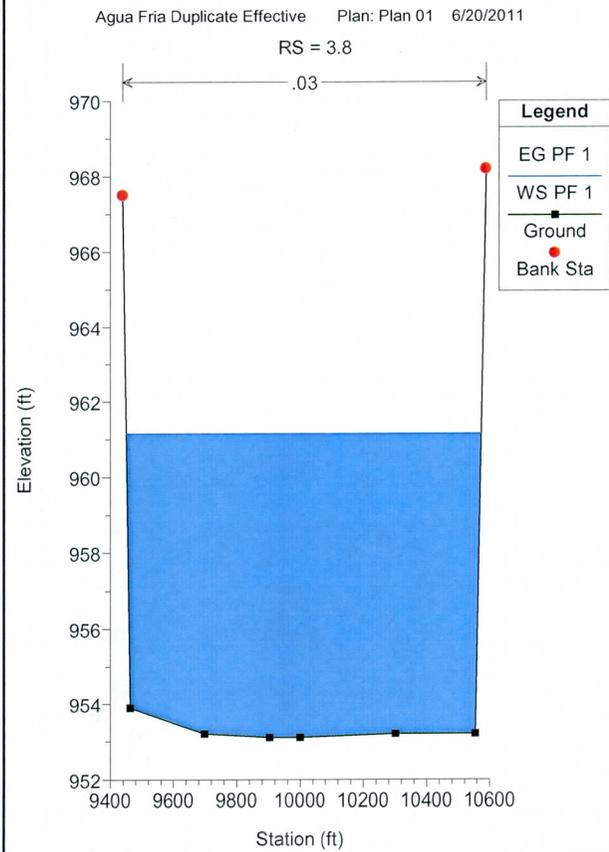
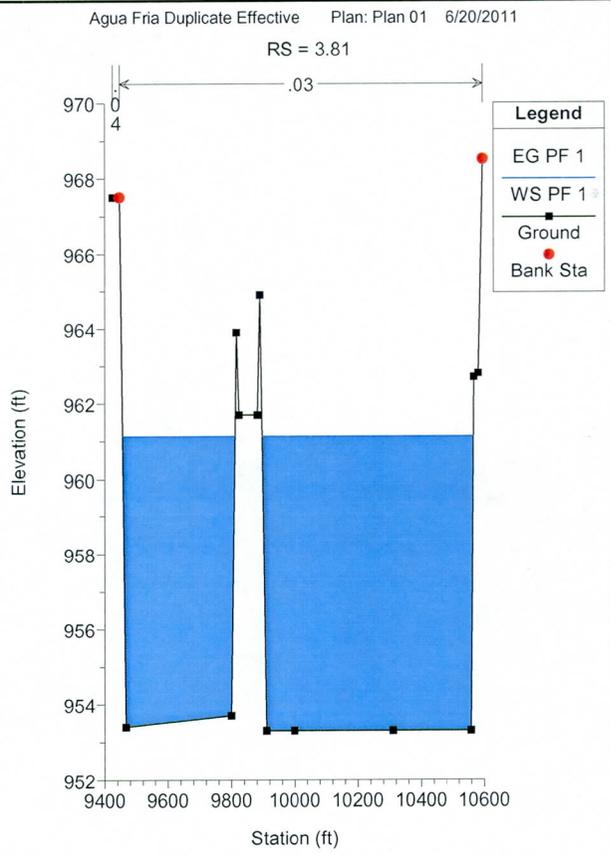
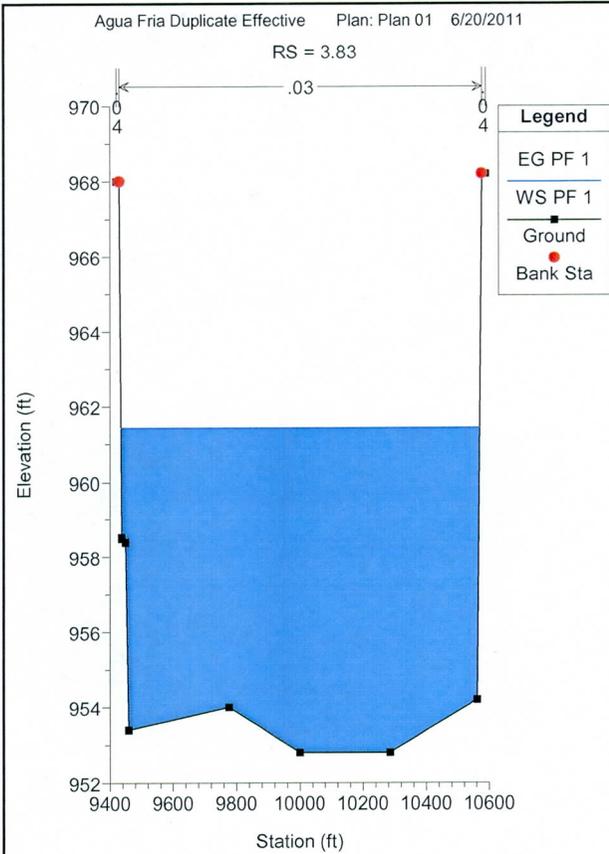
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Agua Fria Duplicate Effective Plan: Plan 01 6/20/2011

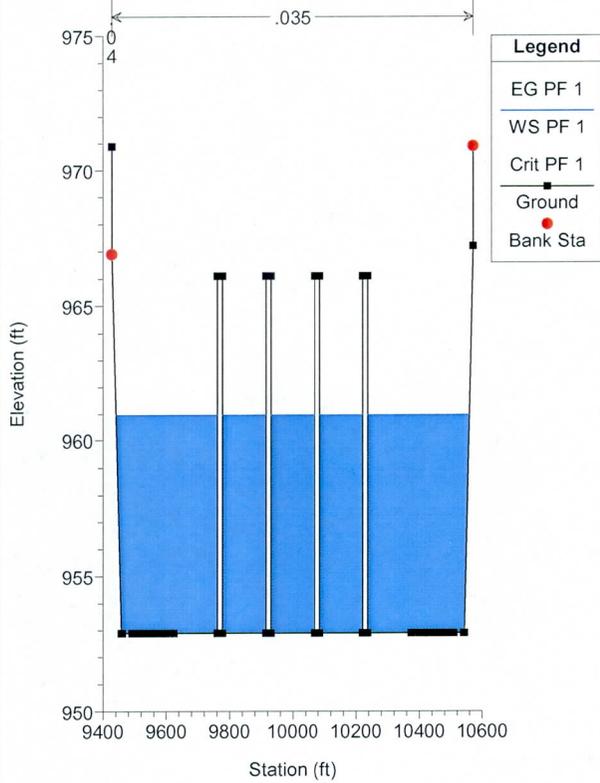
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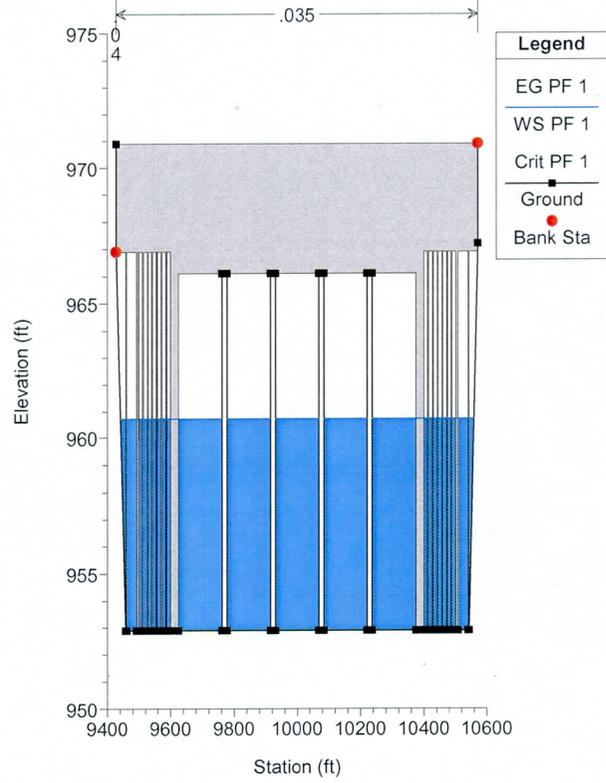
Agua Fria Duplicate Effective Plan: Plan 01 6/20/2011

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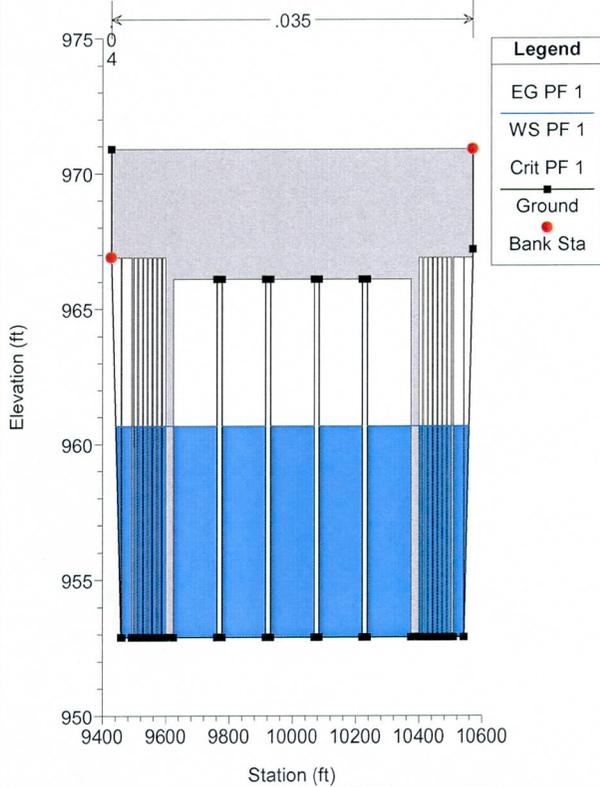
Agua Fria Duplicate Effective Plan: Plan 01 6/20/2011

RS = 3.7685 BR Bridge #2



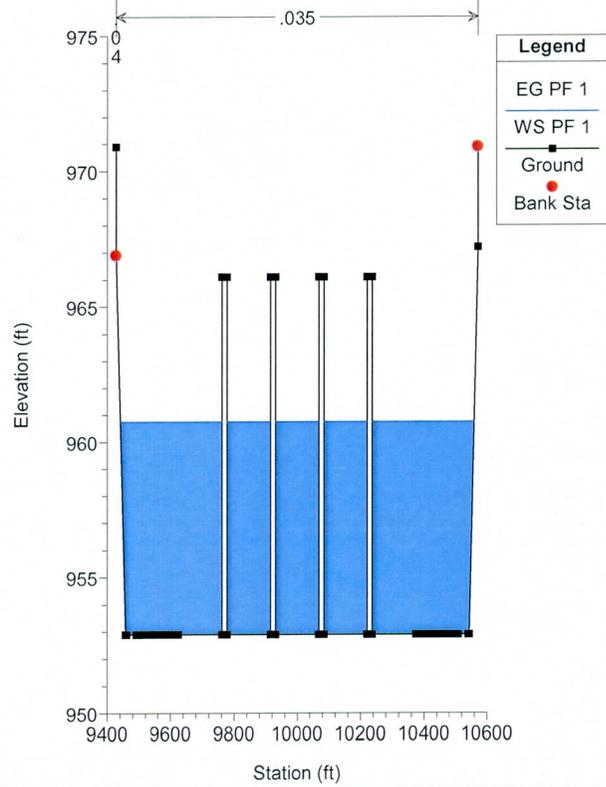
Agua Fria Duplicate Effective Plan: Plan 01 6/20/2011

RS = 3.7685 BR Bridge #2



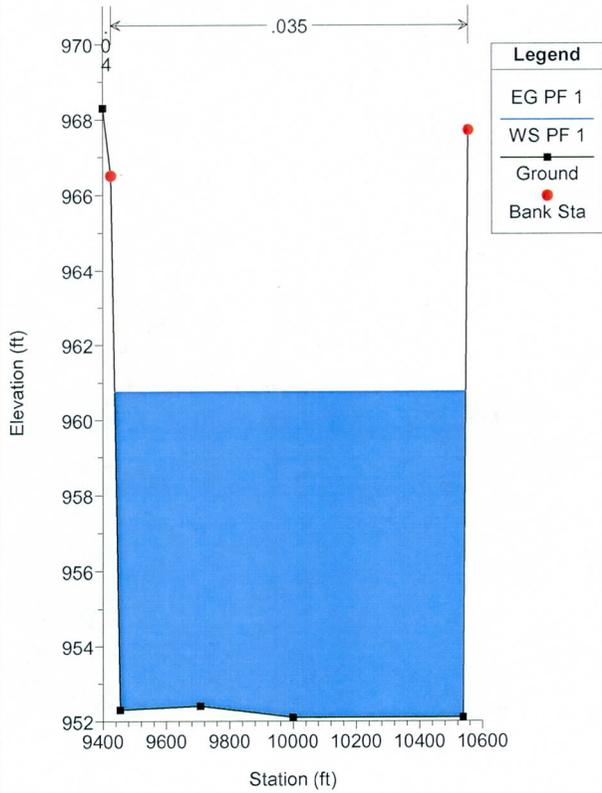
Agua Fria Duplicate Effective Plan: Plan 01 6/20/2011

RS = 3.767



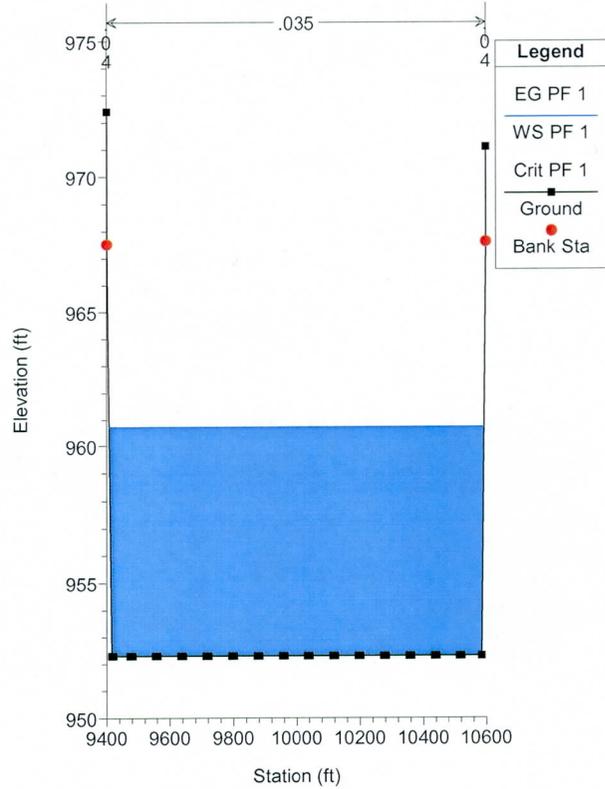
Agua Fria Duplicate Effective Plan: Plan 01 6/20/2011

RS = 3.757



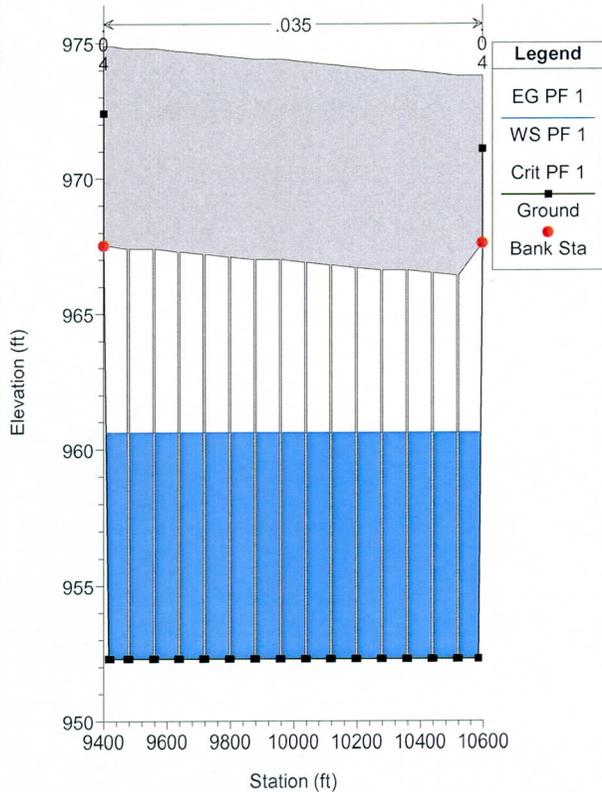
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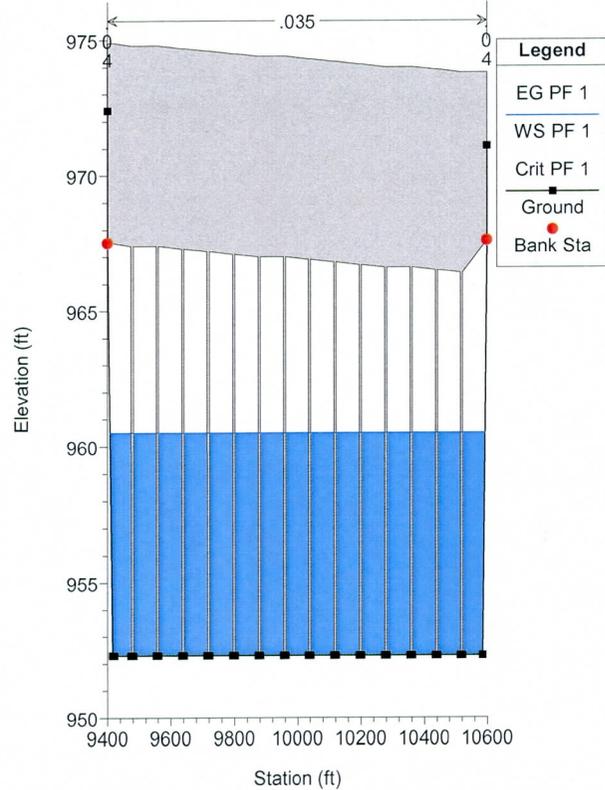
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RS = 3.7405 BR Bridge #1



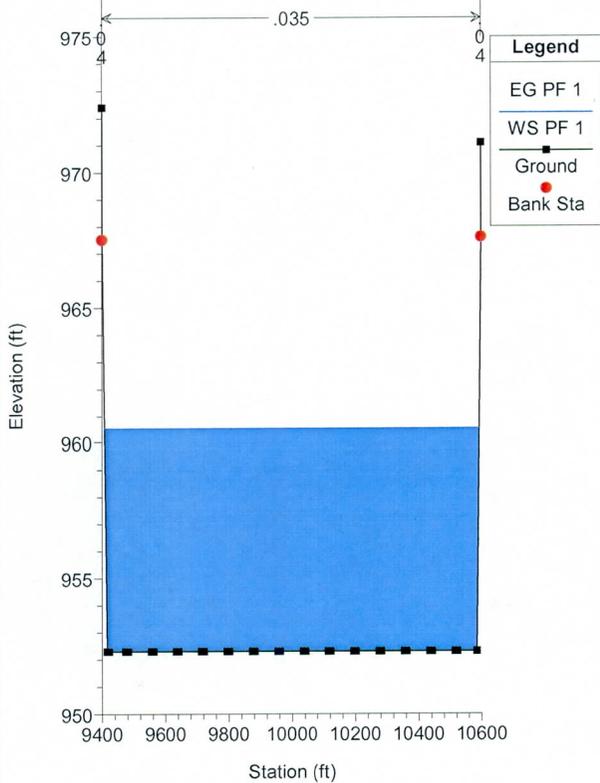
Agua Fria Duplicate Effective Plan: Plan 01 6/20/2011

RS = 3.7405 BR Bridge #1



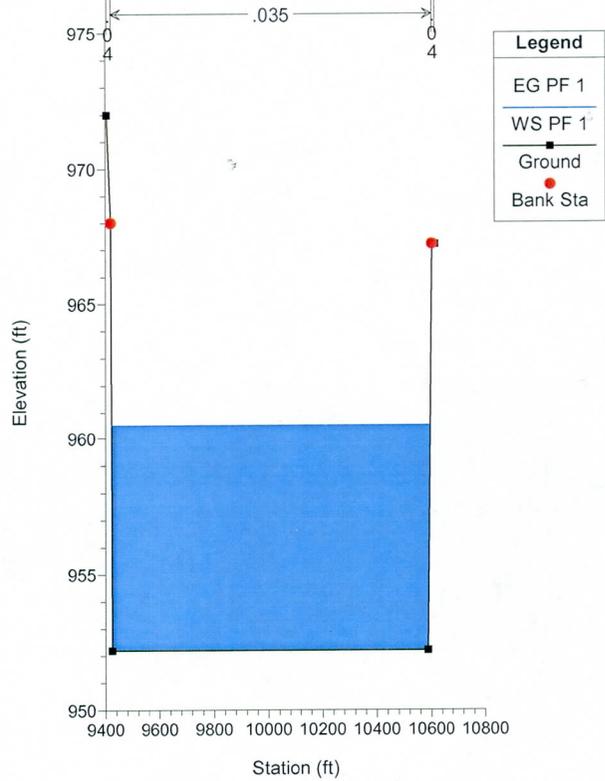
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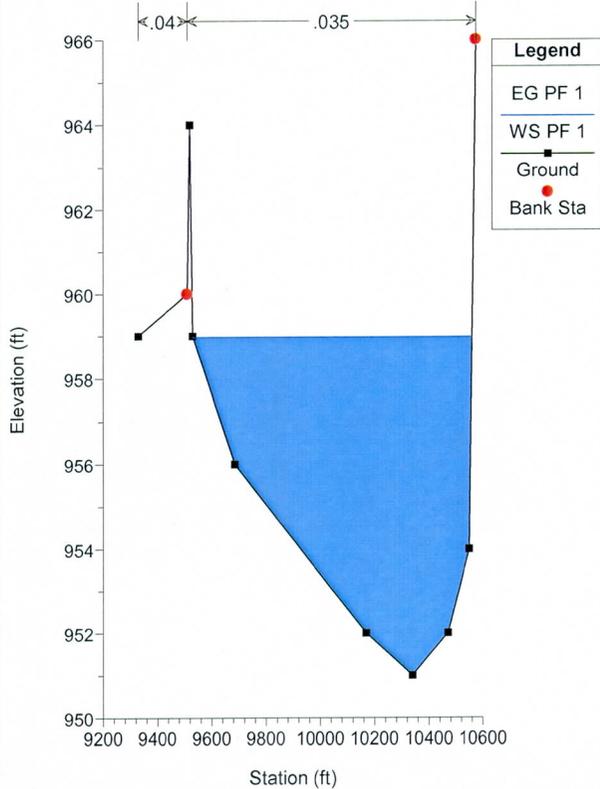
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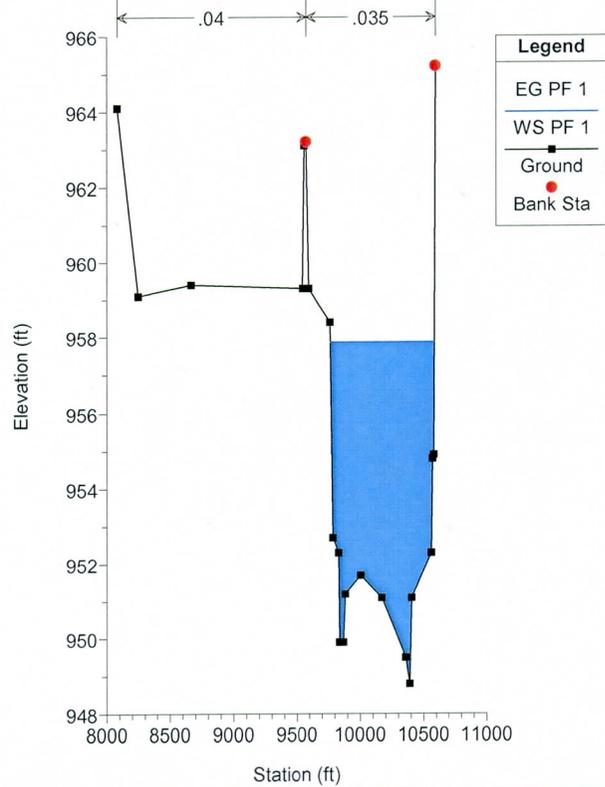
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RS = 3.69

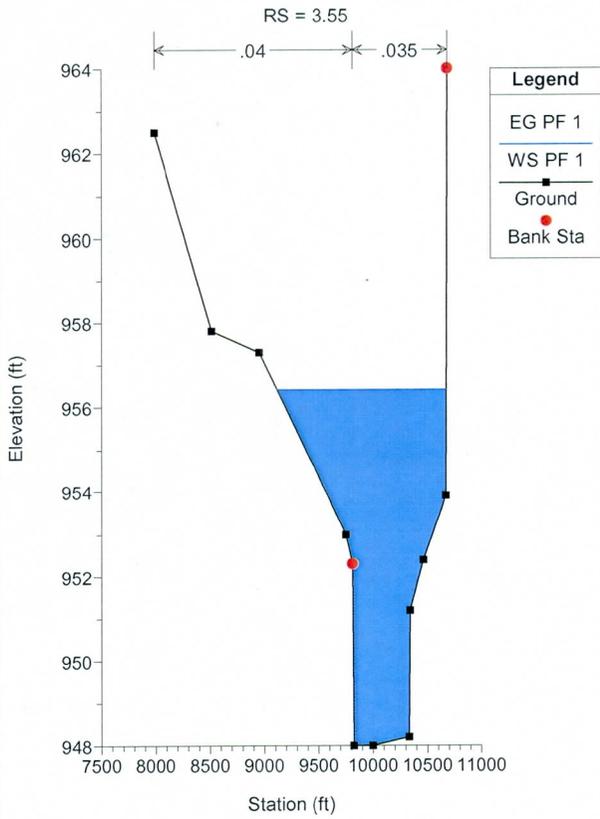


Agua Fria Duplicate Effective Plan: Plan 01 6/20/2011

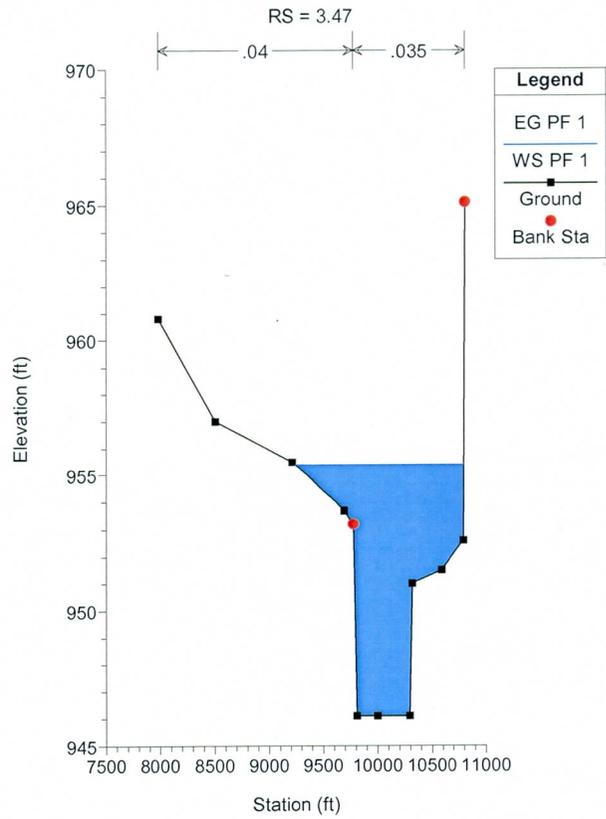
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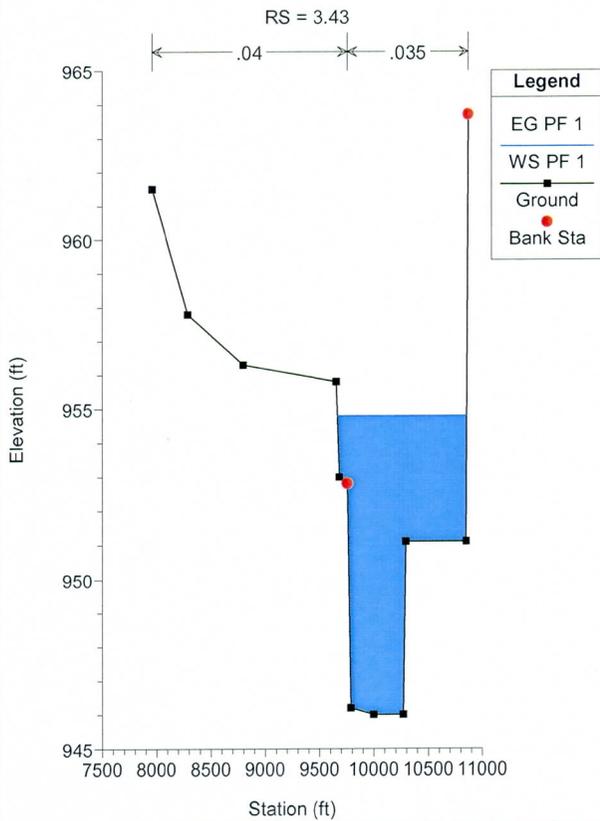
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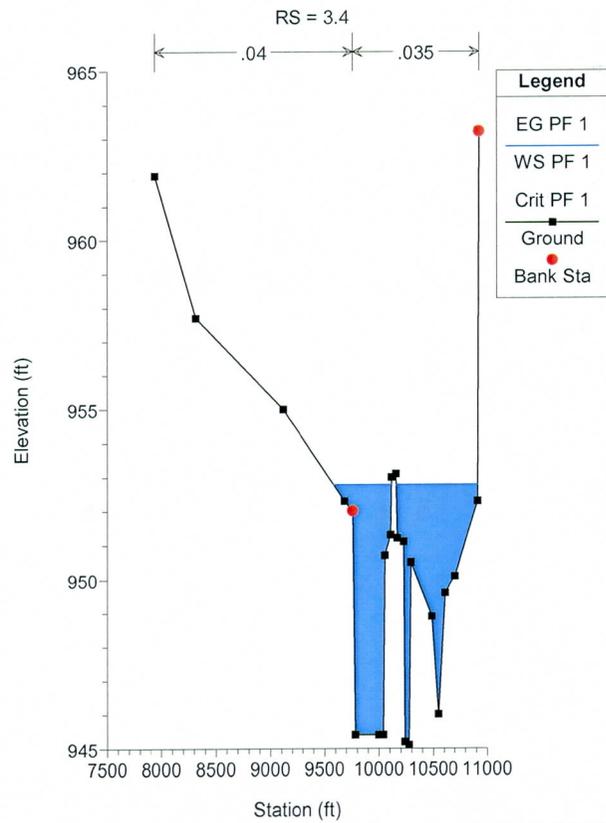
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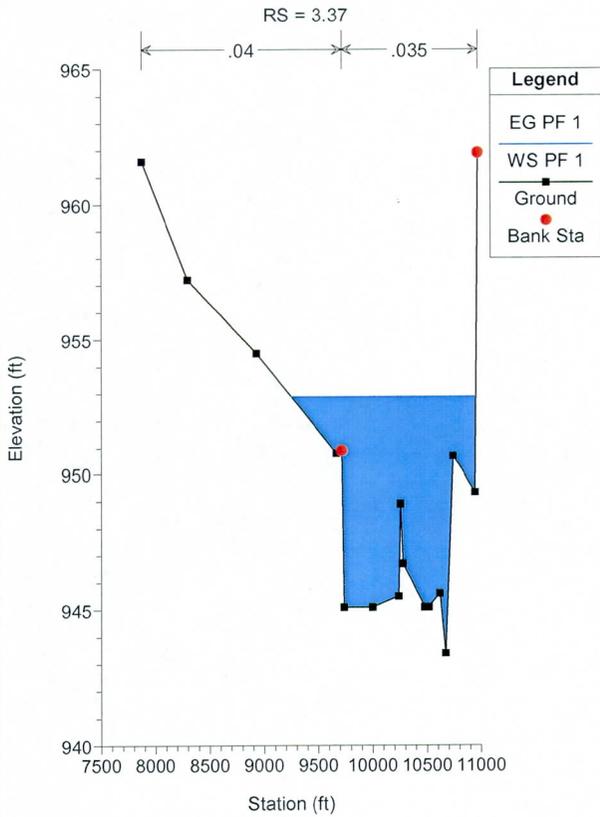
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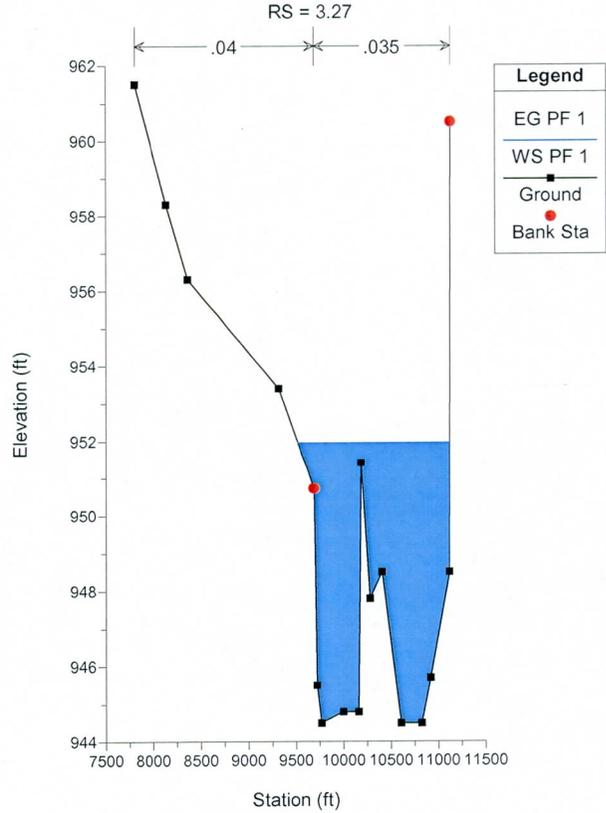
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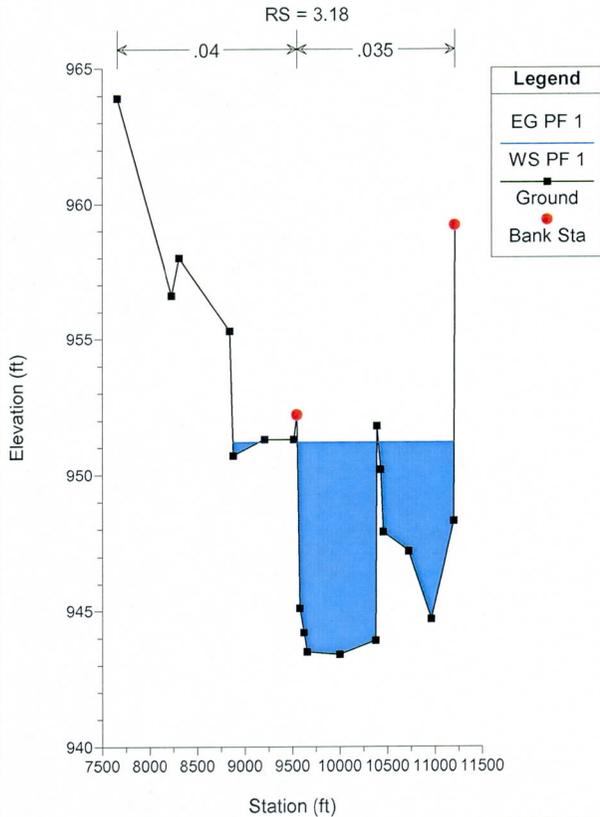
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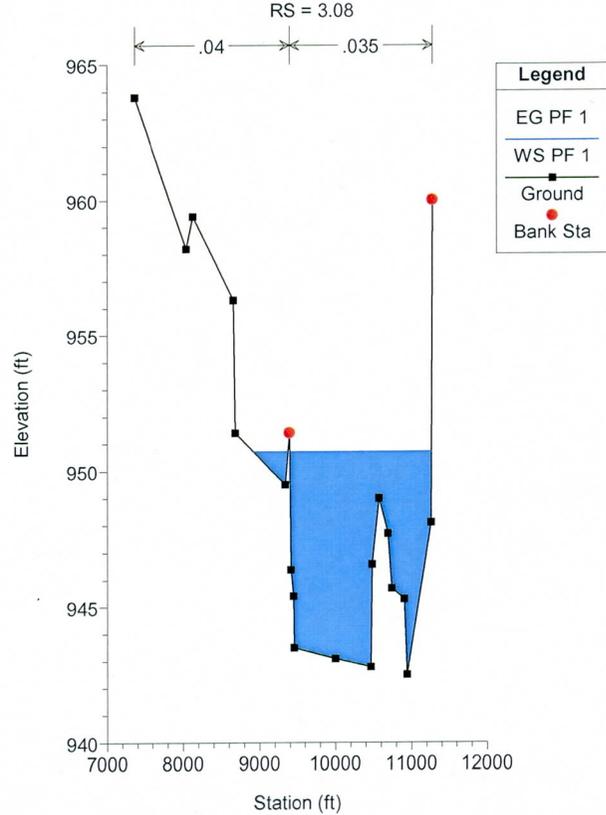
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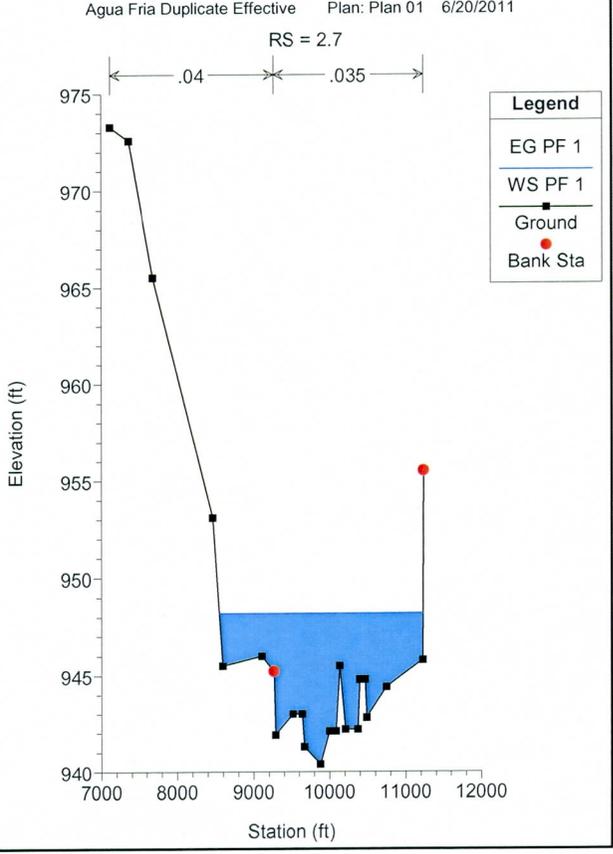
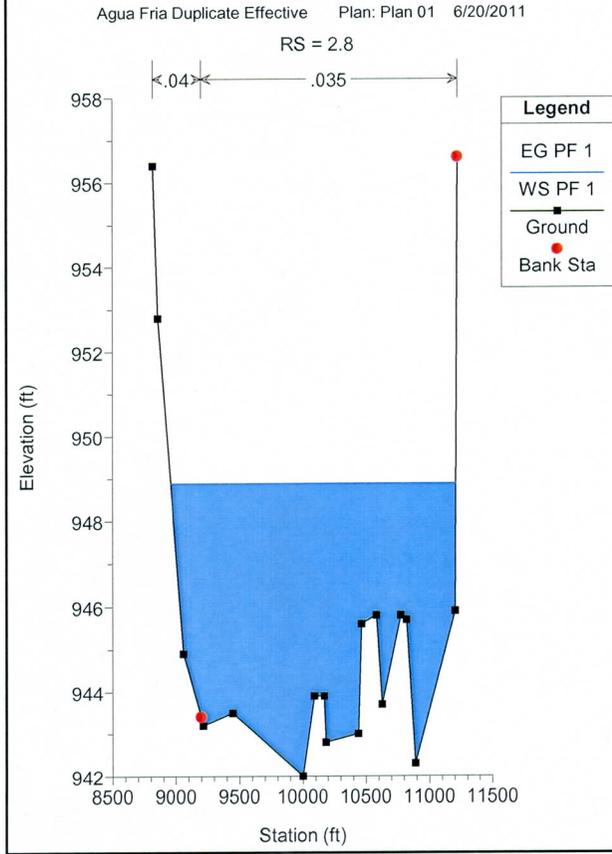
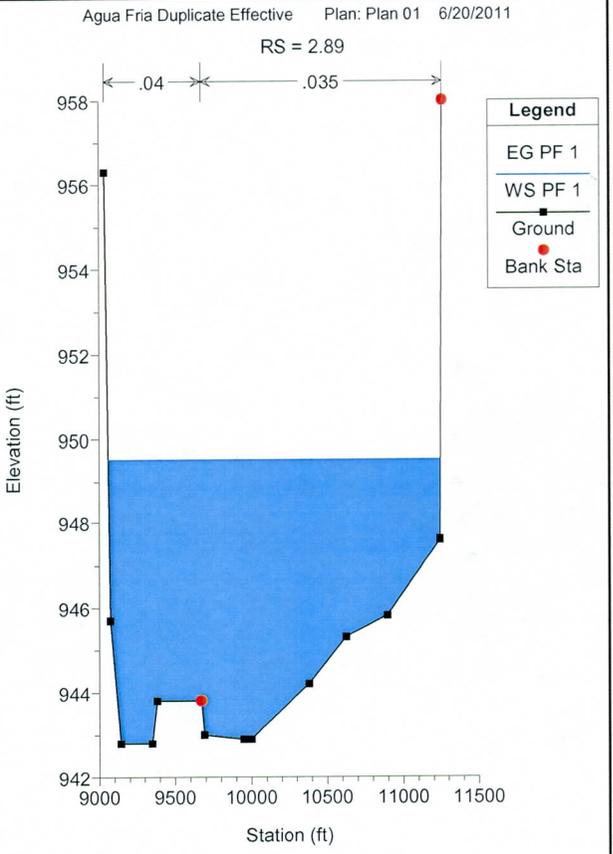
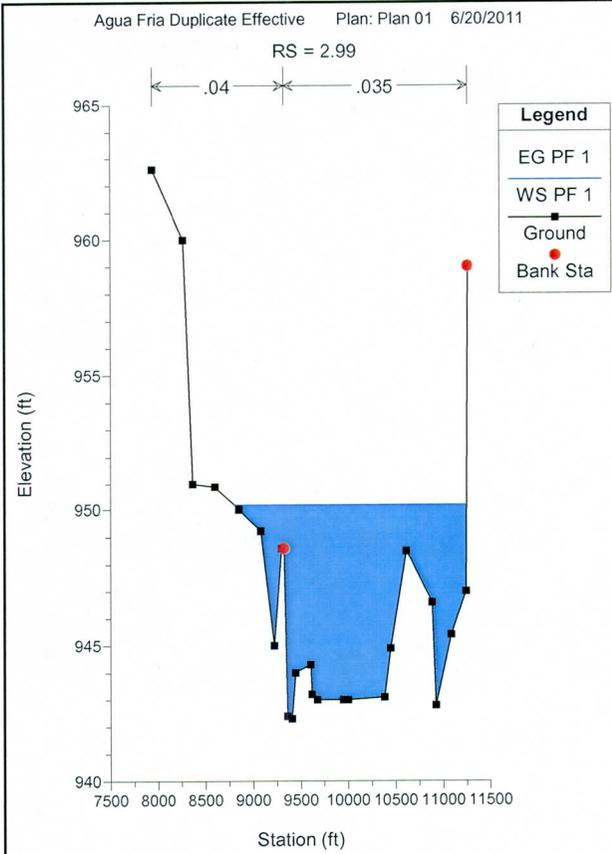


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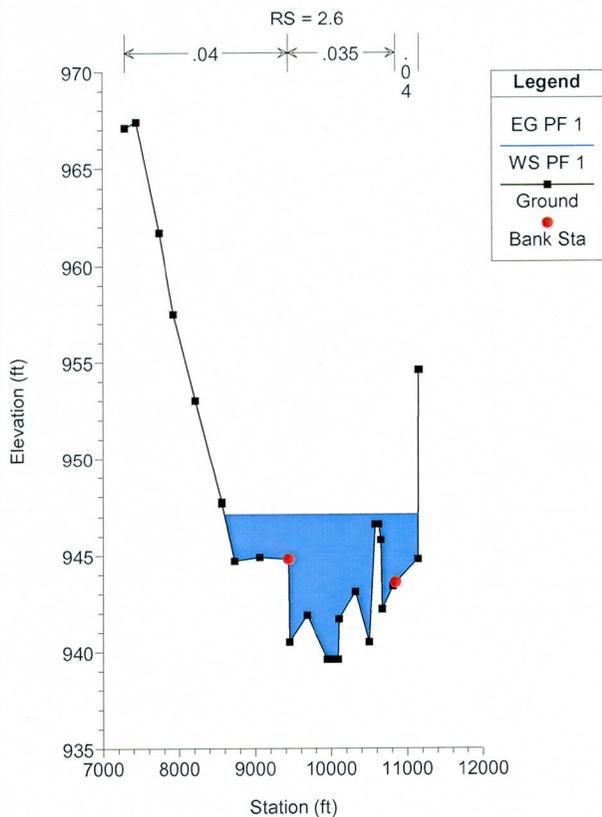


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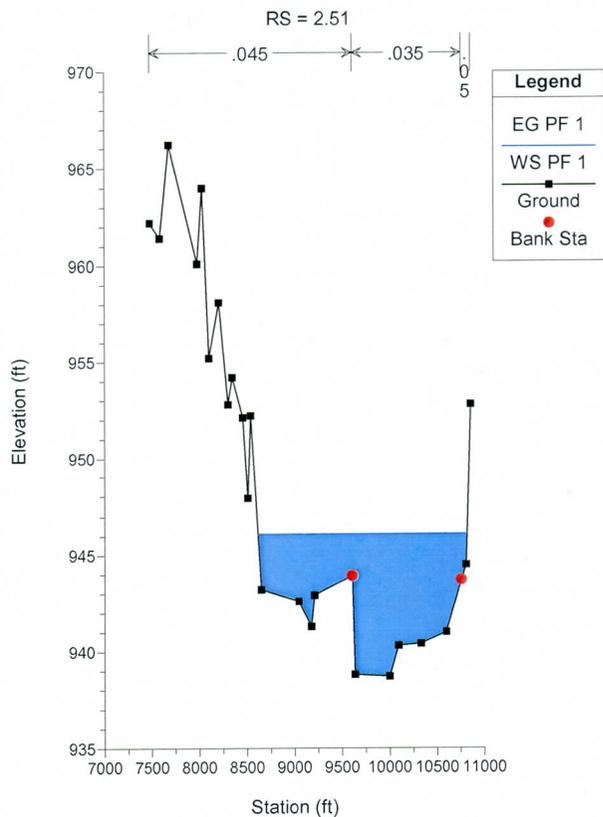




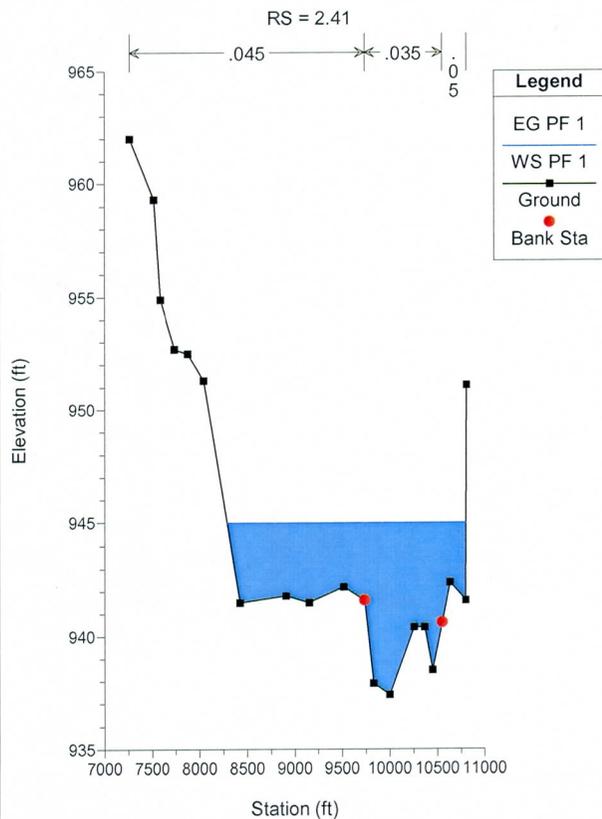
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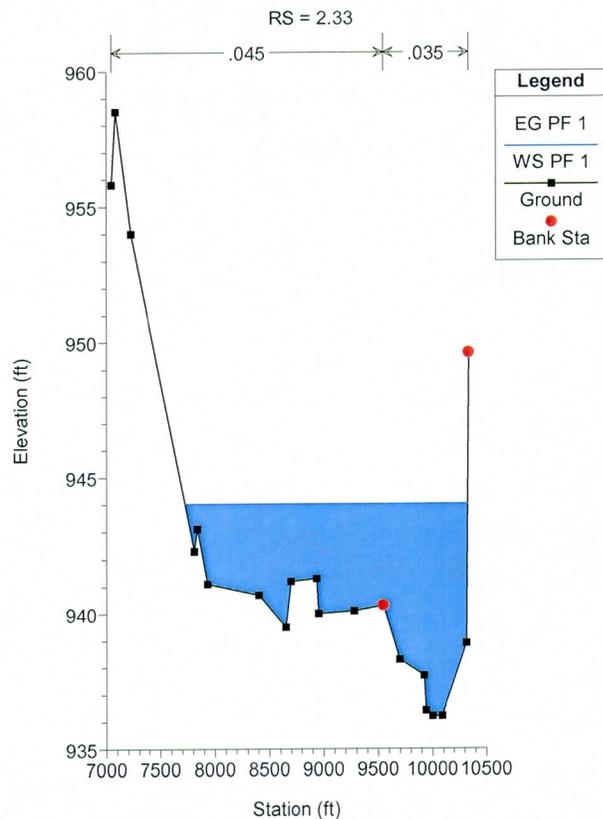
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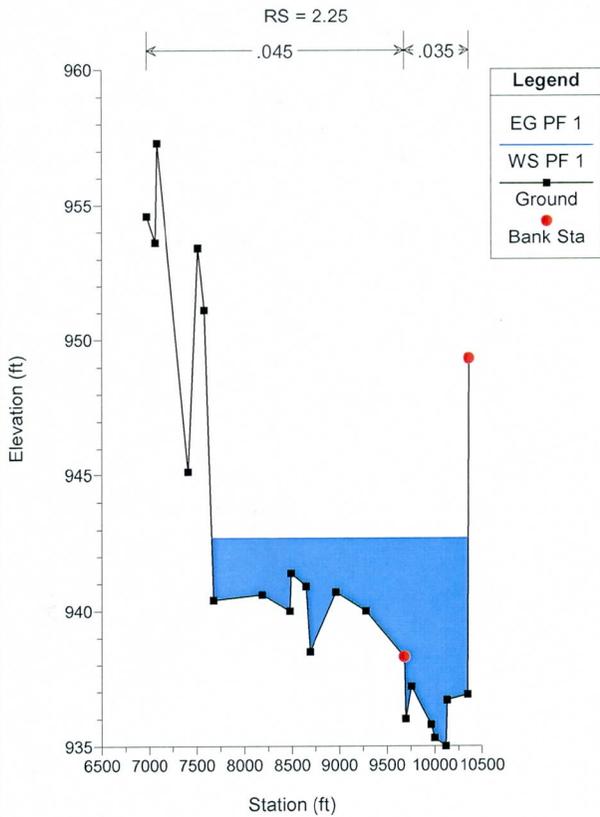
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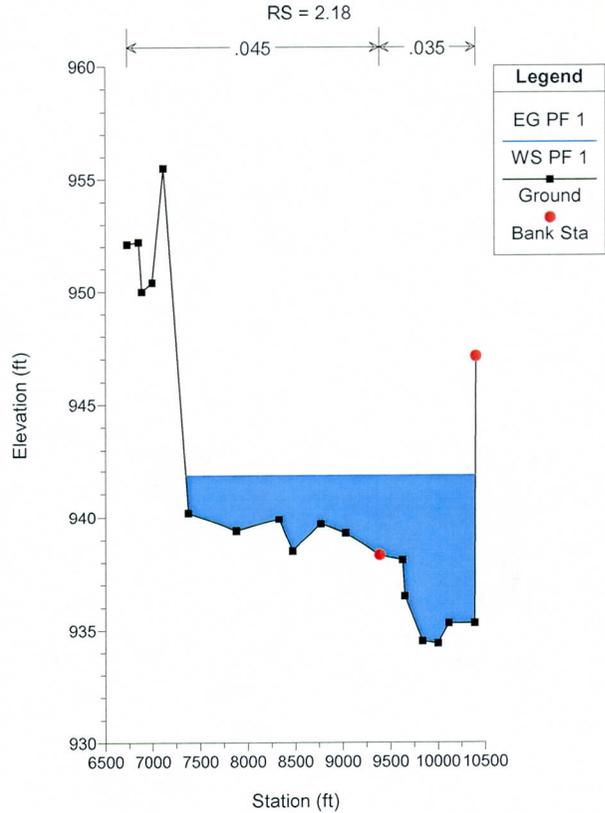
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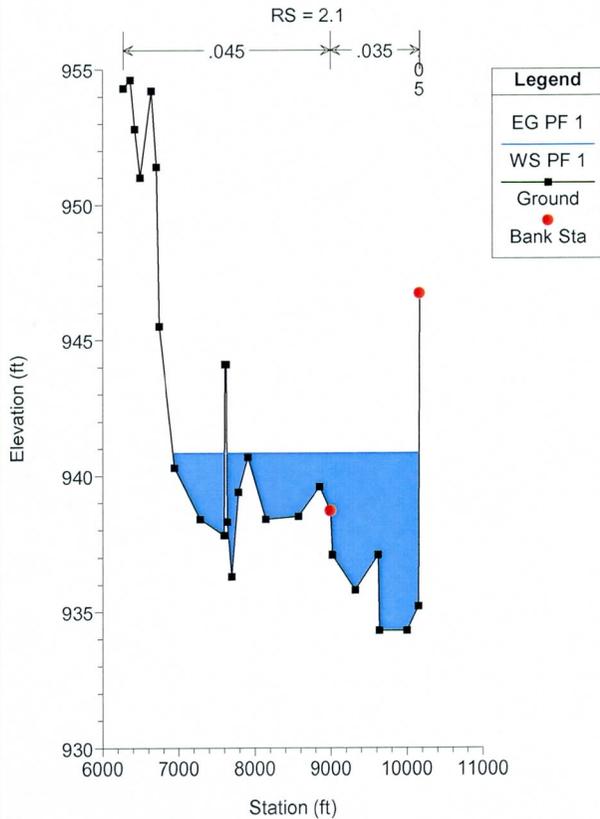
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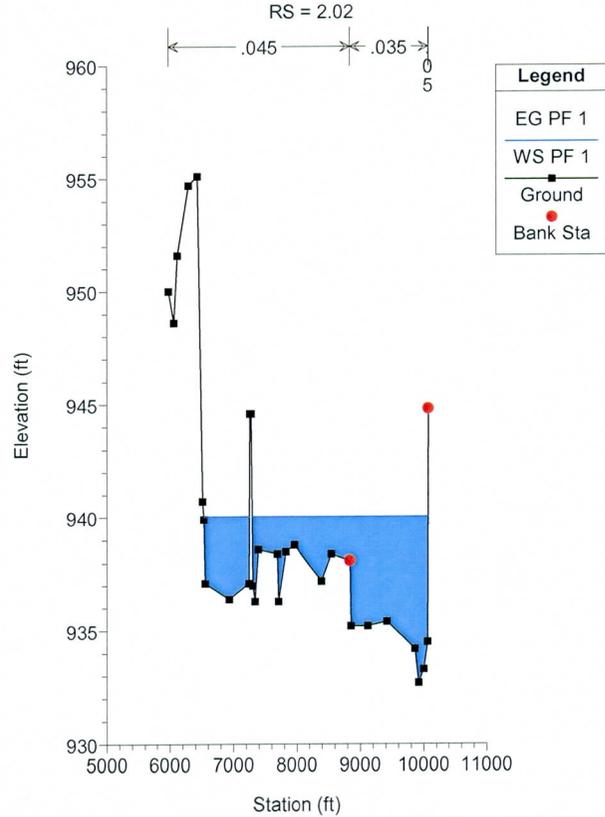
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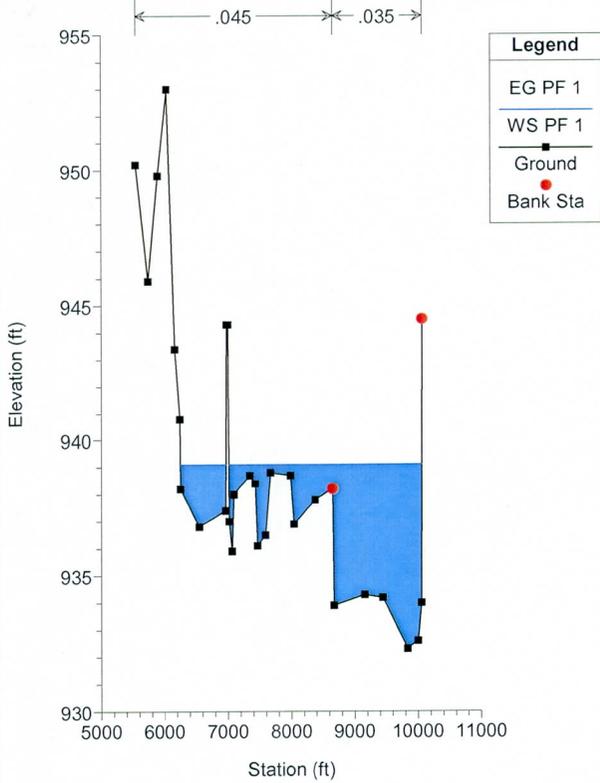
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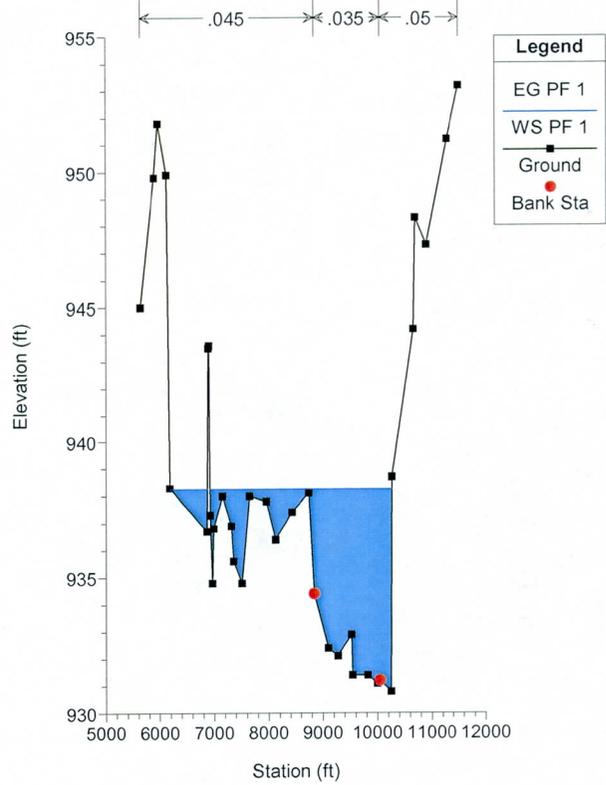
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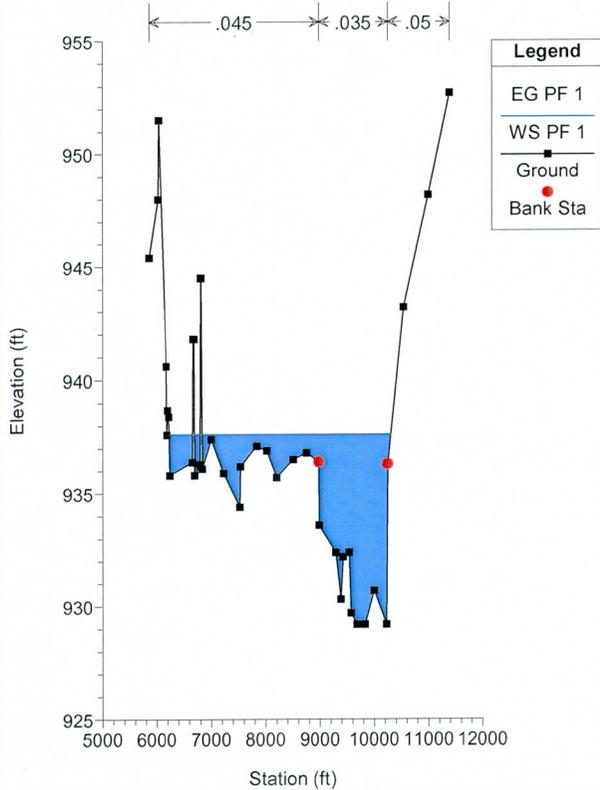
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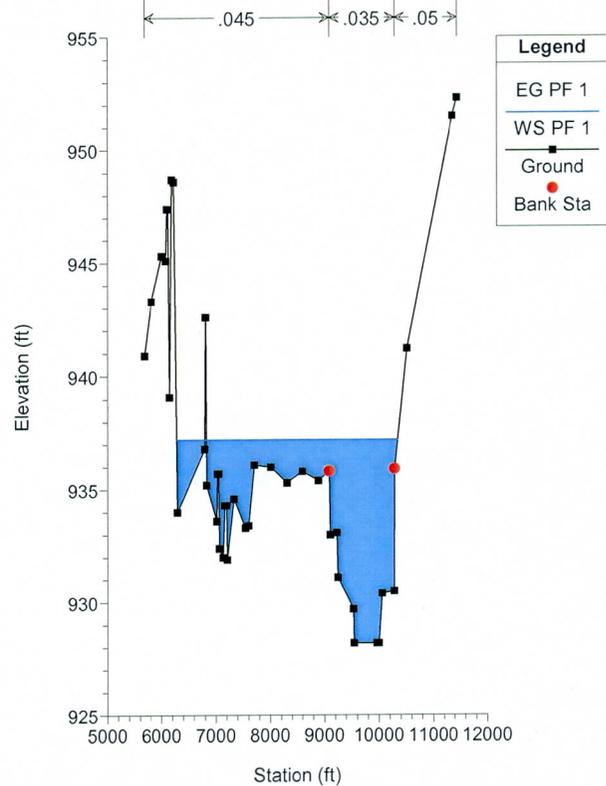
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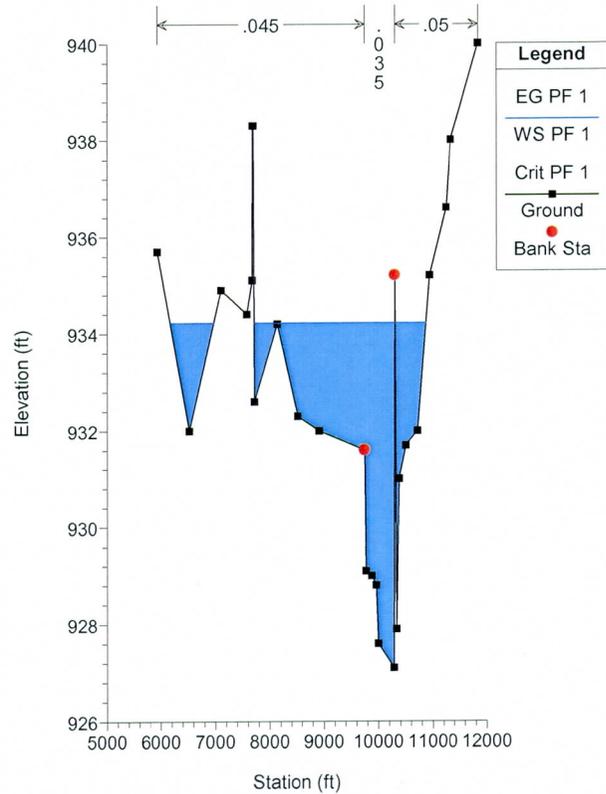
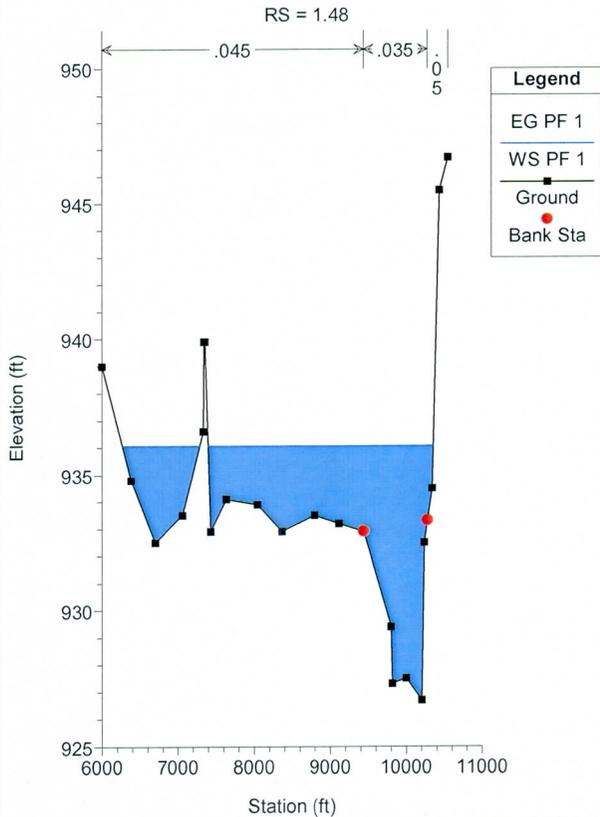
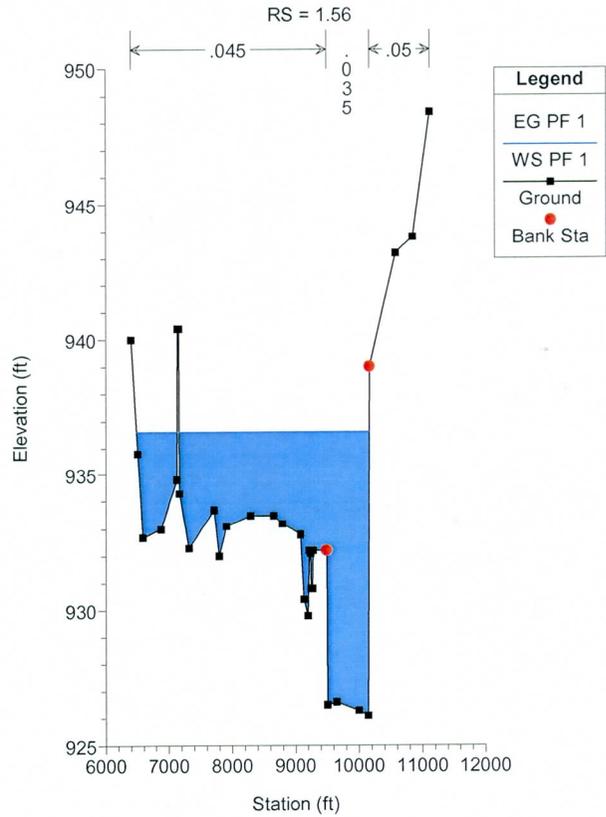
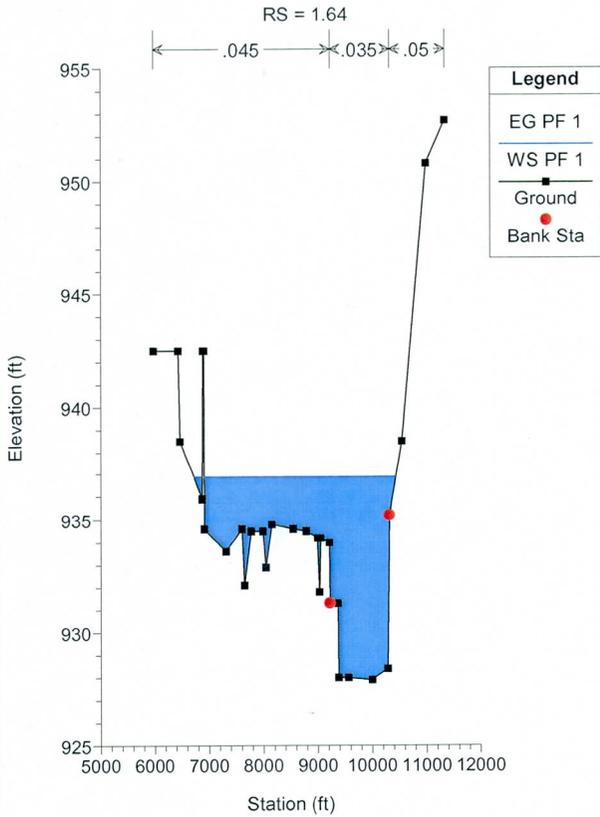


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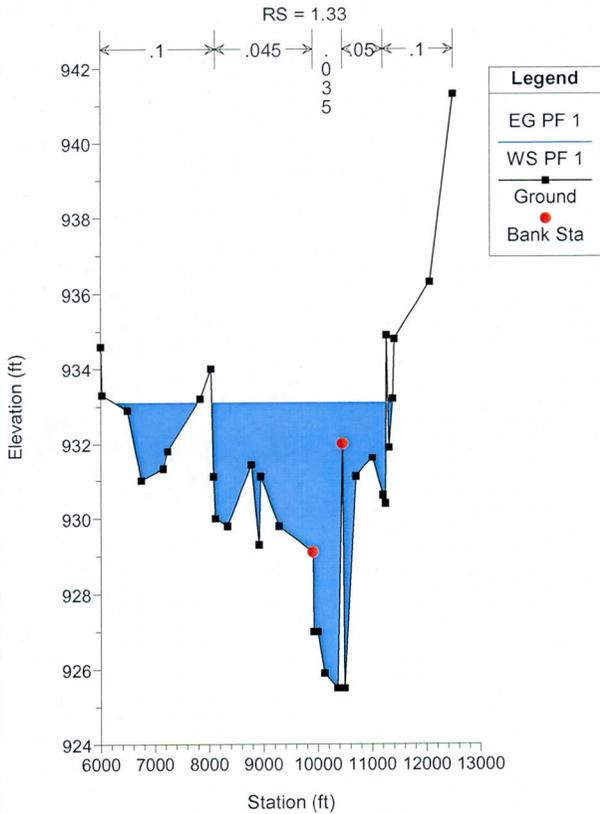


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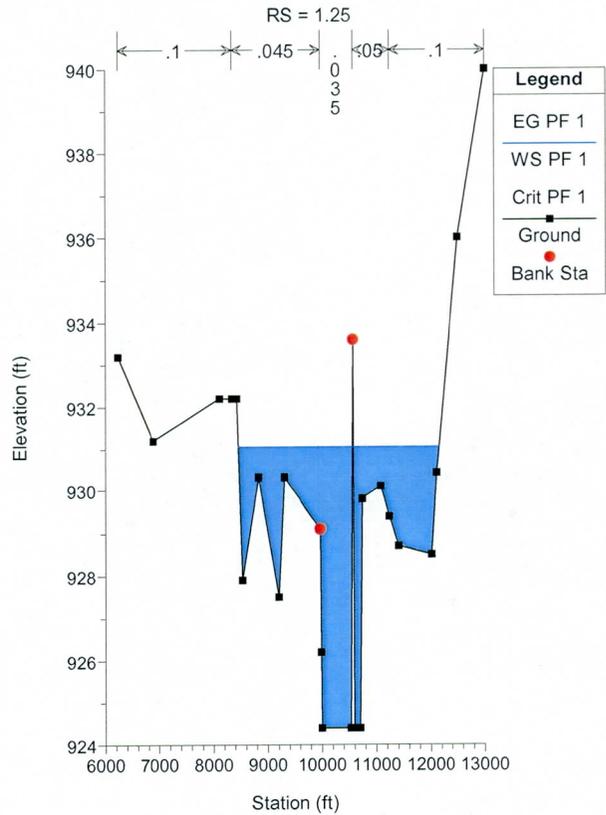




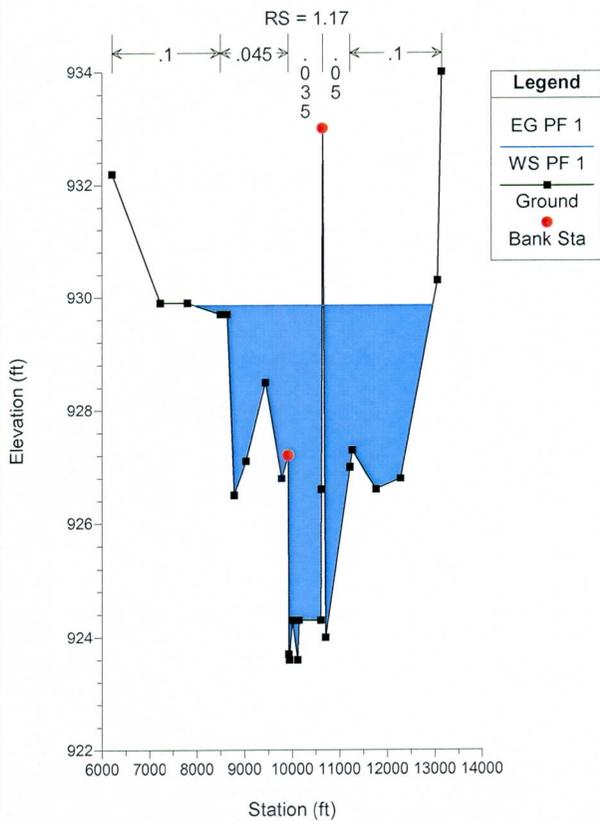
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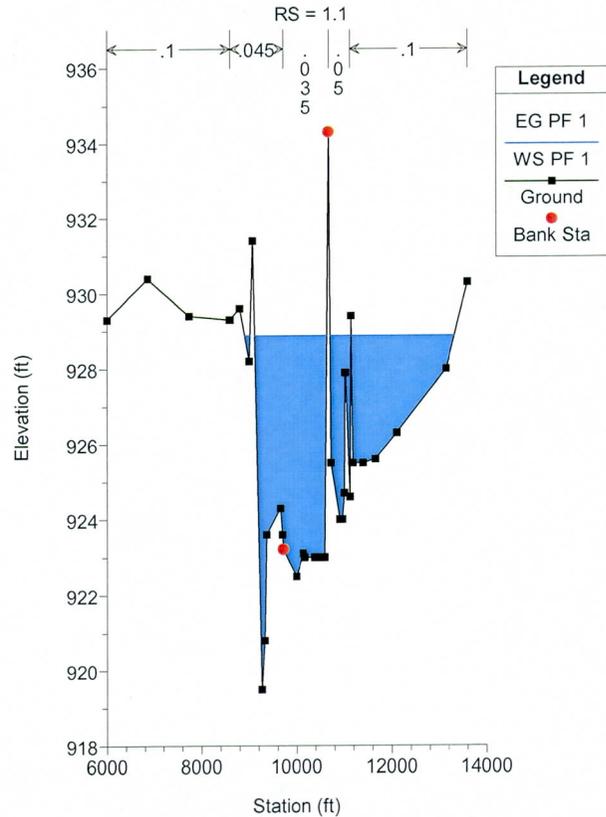
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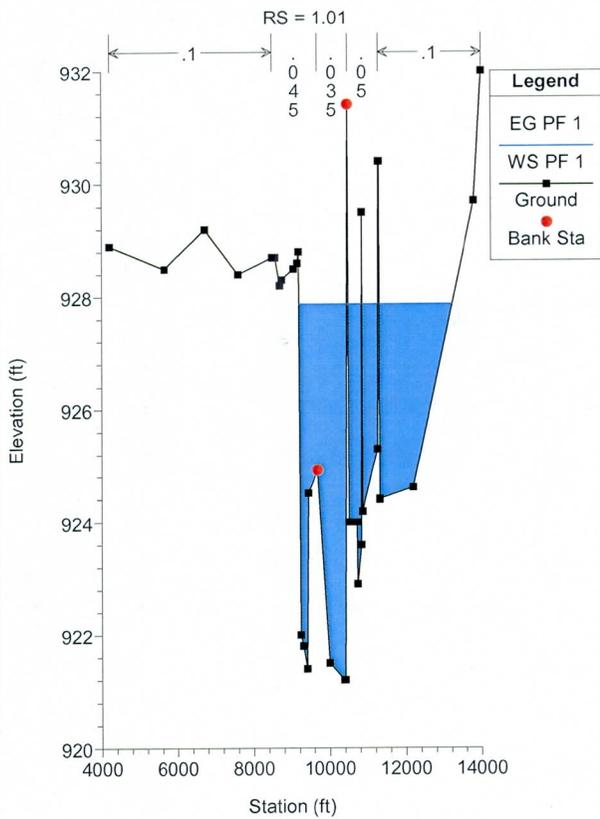
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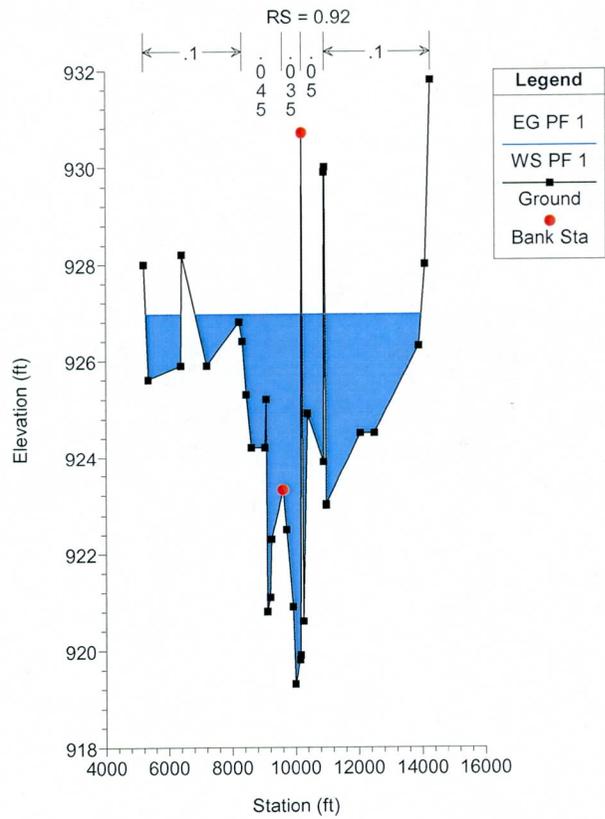
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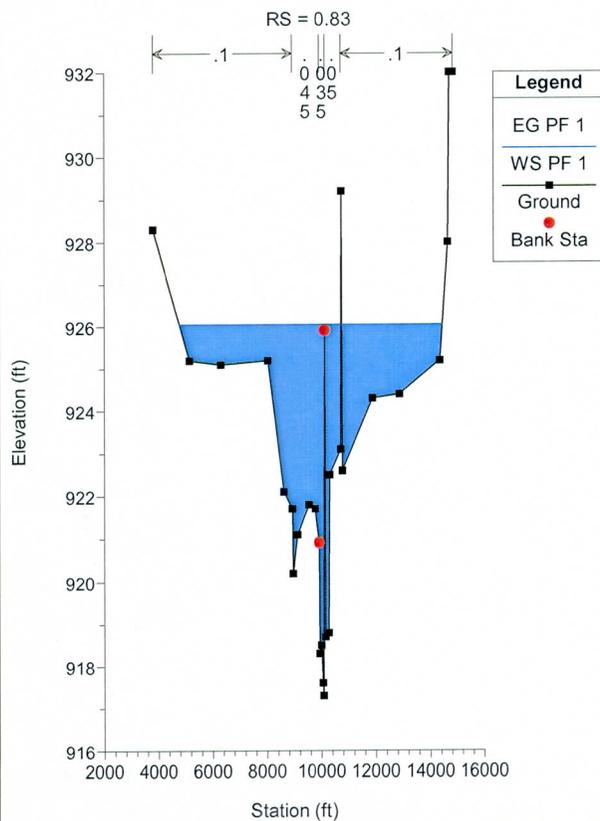
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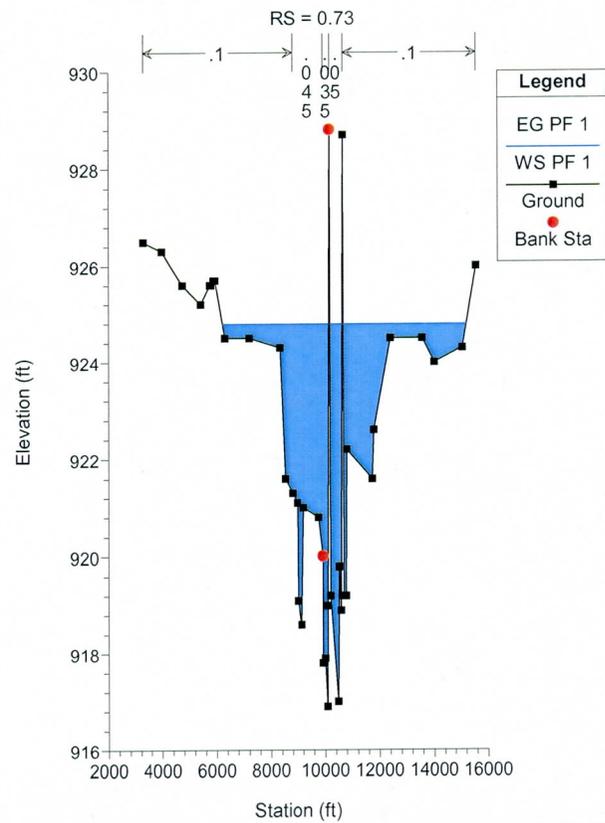
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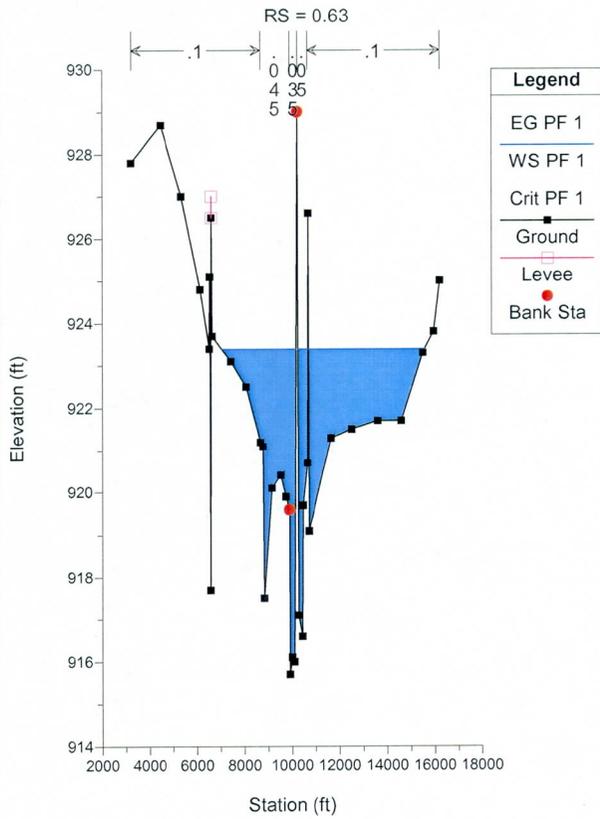
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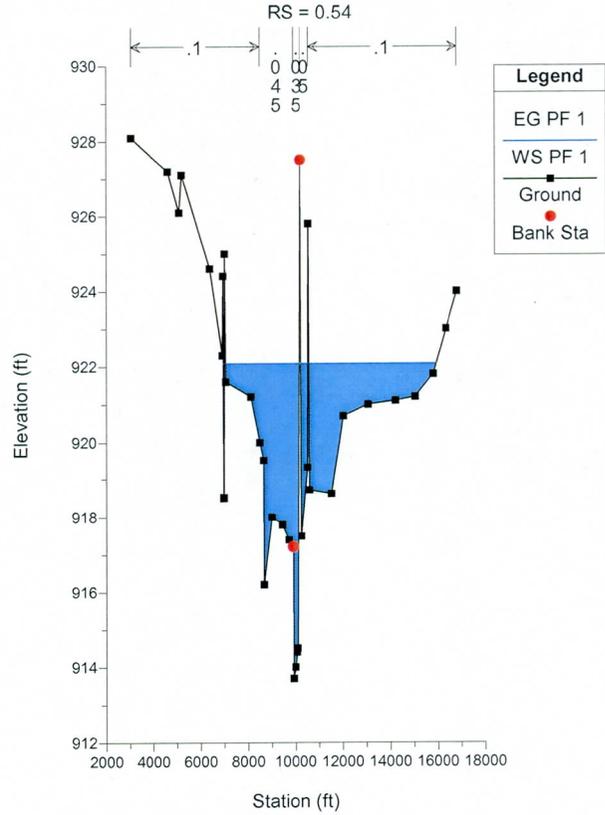
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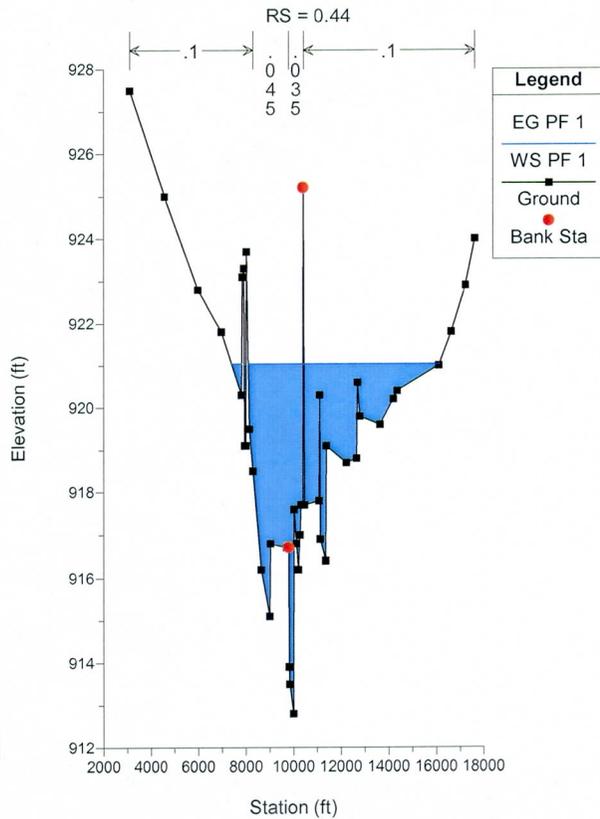
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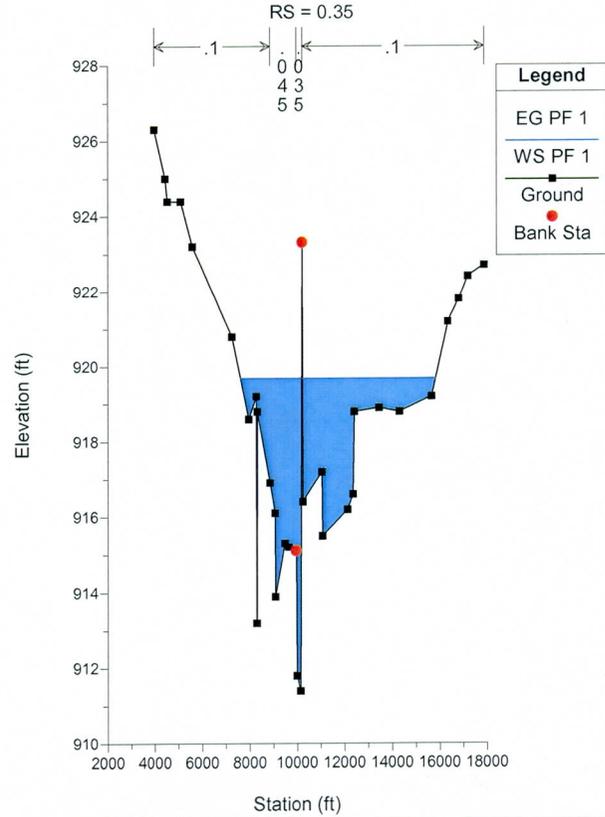
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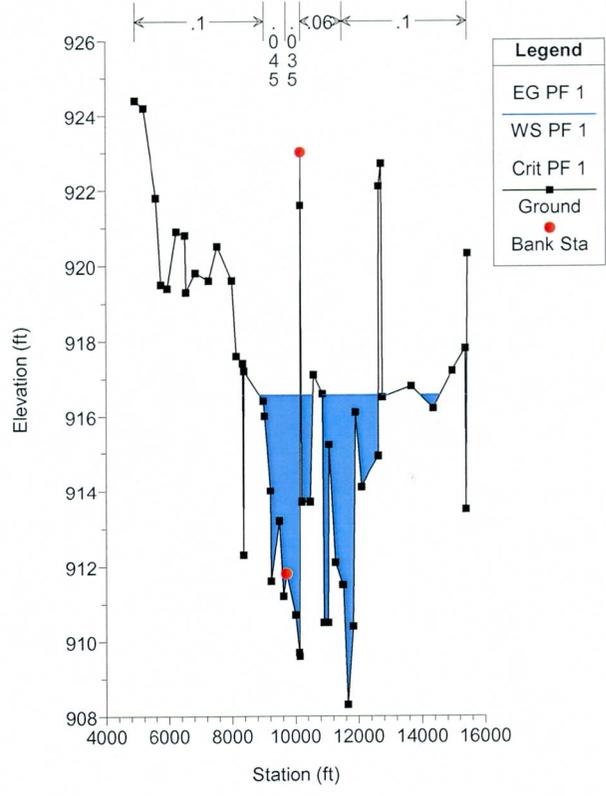
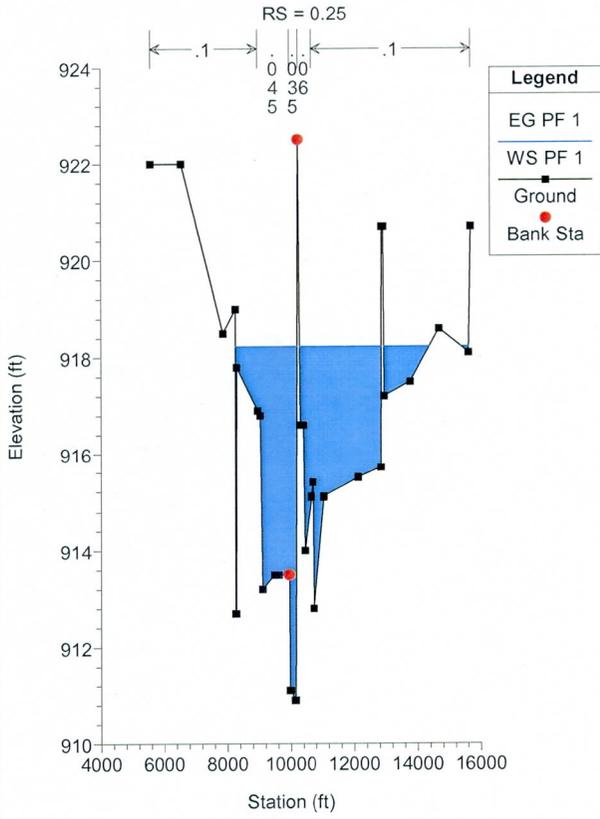


Agua Fria Duplicate Effective Plan: Plan 01 6/20/2011



Agua Fria Duplicate Effective Plan: Plan 01 6/20/2011





**Agua Fria River Floodplain Re-Delineation  
From Salt/Gila River to New River**

**APPENDIX E.3**  
**Proposed Model & Documentation**

HEC-RAS Plan: afr revised River: Stream Reach: Reach

Reach	River Sta	Profile	Q Total (cfs)	Min Ch El (ft)	W.S. Elev (ft)	Crit W.S. (ft)	E.G. Elev (ft)	E.G. Slope (ft/ft)	Vel Chnl (ft/s)	Flow Area (sq ft)	Top Width (ft)	Froude # Chl
Reach	10.046	Floodplain	54400.00	1016.43	1028.19	1026.38	1028.94	0.002947	6.94	7847.98	4517.20	0.53
Reach	10.046	Floodway	54400.00	1016.43	1028.19	1026.38	1028.94	0.002943	6.94	7851.46	1503.05	0.53
Reach	9.961	Floodplain	54400.00	1014.64	1027.05	1024.98	1027.70	0.002499	6.46	8425.94	5214.58	0.49
Reach	9.961	Floodway	54400.00	1014.64	1027.06	1024.98	1027.70	0.002494	6.46	8431.17	1586.89	0.49
Reach	9.869	Floodplain	54400.00	1013.18	1025.77	1024.12	1026.40	0.002880	6.38	8615.02	5935.00	0.52
Reach	9.869	Floodway	54400.00	1013.18	1025.77	1024.11	1026.40	0.002874	6.38	8621.58	1851.22	0.52
Reach	9.792	Floodplain	54400.00	1011.61	1024.66	1022.05	1025.26	0.002608	6.21	8784.70	6062.22	0.50
Reach	9.792	Floodway	54400.00	1011.61	1024.67	1022.05	1025.27	0.002592	6.20	8801.35	1818.96	0.49
Reach	9.725	Floodplain	54400.00	1009.19	1023.88	1021.50	1024.43	0.002059	5.94	9161.39	5302.00	0.45
Reach	9.725	Floodway	54400.00	1009.19	1023.90	1021.50	1024.44	0.002040	5.92	9187.76	1687.89	0.45
Reach	9.71	Bridge										
Reach	9.704	Floodplain	54400.00	1008.21	1023.29	1021.17	1023.87	0.002240	6.13	8919.58	1686.95	0.47
Reach	9.704	Floodway	54400.00	1008.21	1023.32	1021.17	1023.90	0.002220	6.12	8906.14	1661.73	0.46
Reach	9.686	Floodplain	54400.00	1008.12	1023.07	1020.96	1023.66	0.002302	6.17	8830.52	1679.88	0.47
Reach	9.686	Floodway	54400.00	1008.12	1023.10	1020.97	1023.69	0.002251	6.13	8881.91	1670.38	0.47
Reach	9.663	Floodplain	54400.00	1008.00	1022.73	1020.86	1023.36	0.002669	6.35	8567.93	1727.52	0.50
Reach	9.663	Floodway	54400.00	1008.00	1022.71	1020.92	1023.37	0.002871	6.56	8307.99	1692.27	0.52
Reach	9.643	Floodplain	54400.00	1007.74	1022.10	1020.95	1022.97	0.004542	7.49	7272.44	1714.41	0.64
Reach	9.643	Floodway	54400.00	1007.74	1022.10	1020.98	1022.97	0.004571	7.52	7248.45	1707.47	0.64
Reach	9.624	Floodplain	54400.00	1007.39	1021.00	1020.55	1022.32	0.008185	9.23	5903.46	1584.88	0.84
Reach	9.624	Floodway	54400.00	1007.39	1021.06	1020.55	1022.34	0.007788	9.07	6007.97	1594.88	0.82
Reach	9.602	Floodplain	54400.00	1007.83	1020.01	1019.43	1021.39	0.007620	9.46	5809.75	1471.36	0.82
Reach	9.602	Floodway	54400.00	1007.83	1019.98	1019.40	1021.41	0.007887	9.59	5677.74	1400.20	0.84
Reach	9.569	Floodplain	54400.00	1007.57	1017.83	1017.83	1019.76	0.011479	11.16	4888.25	1313.15	1.00
Reach	9.569	Floodway	54400.00	1007.57	1017.85	1017.85	1019.76	0.011268	11.10	4913.80	1301.04	0.99
Reach	9.546	Floodplain	54400.00	1007.38	1014.64	1014.64	1016.72	0.011150	11.59	4696.03	1121.44	1.00
Reach	9.546	Floodway	54400.00	1007.38	1014.64	1014.64	1016.72	0.011150	11.59	4696.03	1121.44	1.00
Reach	9.518	Floodplain	54400.00	1007.15	1014.21	1012.45	1015.09	0.003266	7.55	7211.04	1326.83	0.57
Reach	9.518	Floodway	54400.00	1007.15	1014.23	1012.45	1015.11	0.003215	7.52	7245.21	1326.66	0.56
Reach	9.487	Floodplain	54400.00	1006.90	1014.14	1011.11	1014.63	0.001484	5.67	9604.49	1494.98	0.39
Reach	9.487	Floodway	54400.00	1006.90	1014.16	1011.11	1014.66	0.001463	5.64	9646.37	1494.99	0.39
Reach	9.467	Floodplain	54400.00	1006.73	1014.07	1010.63	1014.46	0.001109	5.02	10846.41	1623.54	0.34
Reach	9.467	Floodway	54400.00	1006.73	1014.10	1010.63	1014.49	0.001092	4.99	10894.18	1623.54	0.34
Reach	9.445	Floodplain	54400.00	1006.55	1013.99	1010.18	1014.33	0.000903	4.67	11660.50	1672.42	0.31
Reach	9.445	Floodway	54400.00	1006.55	1014.02	1010.18	1014.36	0.000890	4.65	11711.95	1672.42	0.31
Reach	9.422	Floodplain	54400.00	1006.37	1013.94	1009.68	1014.22	0.000712	4.29	12697.39	1731.26	0.28
Reach	9.422	Floodway	54400.00	1006.37	1013.97	1009.68	1014.25	0.000702	4.27	12752.45	1731.27	0.28
Reach	9.400	Floodplain	54400.00	1006.19	1013.89	1009.30	1014.13	0.000572	3.91	13914.68	1856.01	0.25
Reach	9.400	Floodway	54400.00	1006.19	1013.93	1009.30	1014.16	0.000564	3.90	13975.62	1856.03	0.25
Reach	9.379	Floodplain	54400.00	1006.02	1013.85	1009.01	1014.07	0.000496	3.70	14725.58	1922.47	0.23
Reach	9.379	Floodway	54400.00	1006.02	1013.89	1009.01	1014.10	0.000488	3.68	14790.23	1922.50	0.23
Reach	9.353	Floodplain	54400.00	1005.81	1013.80	1008.78	1014.00	0.000456	3.58	15208.21	1979.81	0.23
Reach	9.353	Floodway	54400.00	1005.81	1013.83	1008.78	1014.03	0.000449	3.57	15276.84	1979.84	0.22
Reach	9.324	Floodplain	54400.00	1005.57	1013.73	1008.59	1013.93	0.000444	3.58	15209.42	1955.34	0.22
Reach	9.324	Floodway	54400.00	1005.57	1013.77	1008.59	1013.96	0.000438	3.57	15272.95	1934.22	0.22
Reach	9.292	Floodplain	54400.00	1005.31	1013.65	1008.41	1013.85	0.000440	3.62	15026.84	1968.24	0.22
Reach	9.292	Floodway	54400.00	1005.31	1013.69	1008.41	1013.89	0.000434	3.61	15094.10	1845.87	0.22
Reach	9.267	Floodplain	54400.00	1005.11	1013.60	1008.26	1013.79	0.000439	3.56	15292.69	2077.43	0.22
Reach	9.267	Floodway	54400.00	1005.11	1013.63	1008.26	1013.83	0.000432	3.54	15364.50	1931.92	0.22
Reach	9.225	Floodplain	54400.00	1004.76	1013.55	1007.62	1013.70	0.000302	3.12	17507.41	2361.53	0.19
Reach	9.225	Floodway	54400.00	1004.76	1013.59	1007.63	1013.74	0.000299	3.12	17583.15	2007.91	0.19
Reach	9.193	Floodplain	54400.00	1004.50	1013.51	1007.35	1013.65	0.000258	2.93	18643.10	2491.00	0.17
Reach	9.193	Floodway	54400.00	1004.50	1013.55	1007.35	1013.68	0.000256	2.93	18698.29	2089.33	0.17

HEC-RAS Plan: afr revised River: Stream Reach: Reach (Continued)

Reach	River Sta	Profile	Q Total (cfs)	Min Ch El (ft)	W.S. Elev (ft)	Crit W.S. (ft)	E.G. Elev (ft)	E.G. Slope (ft/ft)	Vel Chnl (ft/s)	Flow Area (sq ft)	Top Width (ft)	Froude # Chl
Reach	9.172	Floodplain	54400.00	1004.33	1013.50	1007.01	1013.61	0.000208	2.67	20484.85	2686.76	0.16
Reach	9.172	Floodway	54400.00	1004.33	1013.54	1007.01	1013.65	0.000207	2.67	20515.06	2238.20	0.16
Reach	9.131	Floodplain	54400.00	1004.00	1013.47	1006.67	1013.57	0.000175	2.49	21910.46	2780.08	0.14
Reach	9.131	Floodway	54400.00	1004.00	1013.51	1006.68	1013.61	0.000173	2.49	21932.39	2338.39	0.14
Reach	9.109	Floodplain	54400.00	1003.97	1013.45	1006.69	1013.55	0.000174	2.47	22126.42	2785.99	0.14
Reach	9.109	Floodway	54400.00	1003.97	1013.49	1006.70	1013.59	0.000172	2.47	22120.35	2397.06	0.14
Reach	9.082	Floodplain	54400.00	1004.03	1013.44	1006.60	1013.52	0.000157	2.35	23280.79	2785.08	0.14
Reach	9.082	Floodway	54400.00	1004.03	1013.47	1006.59	1013.56	0.000156	2.35	23235.92	2518.27	0.14
Reach	9.059	Floodplain	54400.00	1004.00	1013.42	1006.54	1013.50	0.000154	2.33	23521.76	2770.56	0.13
Reach	9.059	Floodway	54400.00	1004.00	1013.46	1006.54	1013.54	0.000153	2.33	23592.41	2564.59	0.13
Reach	9.038	Floodplain	54400.00	1003.97	1013.40	1006.58	1013.48	0.000163	2.39	22960.57	2580.74	0.14
Reach	9.038	Floodway	54400.00	1003.97	1013.44	1006.58	1013.52	0.000160	2.38	23062.67	2582.22	0.14
Reach	9.004	Floodplain	54400.00	1003.97	1013.35	1006.71	1013.45	0.000186	2.55	21661.67	2419.40	0.15
Reach	9.004	Floodway	54400.00	1003.97	1013.39	1006.71	1013.49	0.000183	2.54	21759.14	2419.41	0.15
Reach	8.982	Floodplain	54400.00	1003.97	1013.31	1006.85	1013.43	0.000219	2.76	20101.02	2270.61	0.16
Reach	8.982	Floodway	54400.00	1003.97	1013.35	1006.85	1013.47	0.000215	2.74	20193.88	2270.63	0.16
Reach	8.959	Floodplain	54400.00	1003.97	1013.27	1006.94	1013.40	0.000245	2.91	19026.54	2144.49	0.17
Reach	8.959	Floodway	54400.00	1003.97	1013.31	1006.94	1013.44	0.000242	2.89	19115.41	2144.51	0.17
Reach	8.932	Floodplain	54400.00	1003.95	1013.22	1007.01	1013.36	0.000269	3.03	18277.90	2071.28	0.18
Reach	8.932	Floodway	54400.00	1003.95	1013.26	1007.01	1013.40	0.000265	3.01	18365.38	2071.43	0.18
Reach	8.904	Floodplain	54400.00	1003.93	1013.13	1007.42	1013.31	0.000362	3.50	16442.87	2251.97	0.20
Reach	8.904	Floodway	54400.00	1003.93	1013.17	1007.42	1013.35	0.000356	3.48	16529.62	1988.05	0.20
Reach	8.878	Floodplain	54400.00	1003.91	1013.04	1007.58	1013.25	0.000439	3.84	15030.80	2263.01	0.23
Reach	8.878	Floodway	54400.00	1003.91	1013.08	1007.58	1013.30	0.000431	3.82	15114.81	1859.91	0.22
Reach	8.850	Floodplain	54400.00	1003.94	1012.88	1007.92	1013.17	0.000604	4.42	12793.00	1561.72	0.26
Reach	8.850	Floodway	54400.00	1003.94	1012.93	1007.92	1013.21	0.000593	4.39	12867.35	1561.72	0.26
Reach	8.72	Floodplain	54400.00	1003.97	1010.97	1008.15	1011.49	0.001635	5.81	9365.59	1496.44	0.41
Reach	8.72	Floodway	54400.00	1003.97	1011.03	1008.17	1011.56	0.001621	5.83	9325.57	1466.66	0.41
Reach	8.62	Floodplain	54400.00	1002.59	1010.16	1007.34	1010.65	0.001568	5.61	9691.22	1577.76	0.40
Reach	8.62	Floodway	54400.00	1002.59	1010.15	1007.44	1010.69	0.001725	5.89	9243.02	1500.98	0.42
Reach	8.54	Floodplain	54400.00	1001.19	1009.48		1009.98	0.001459	5.69	9567.72	1448.84	0.39
Reach	8.54	Floodway	54400.00	1001.19	1009.48		1009.98	0.001459	5.69	9567.72	1448.84	0.39
Reach	8.53	Floodplain	54400.00	1000.28	1009.50	1005.38	1009.89	0.000686	5.02	10842.35	1423.80	0.32
Reach	8.53	Floodway	54400.00	1000.28	1009.50	1005.38	1009.89	0.000686	5.02	10842.35	1423.80	0.32
Reach	8.51		Bridge									
Reach	8.49	Floodplain	54400.00	1000.11	1009.15		1009.64	0.000951	5.58	9752.27	1395.76	0.37
Reach	8.49	Floodway	54400.00	1000.11	1009.15		1009.64	0.000951	5.58	9752.27	1395.76	0.37
Reach	8.48	Floodplain	54400.00	1001.17	1008.85		1009.51	0.001587	6.53	8329.65	1369.86	0.47
Reach	8.48	Floodway	54400.00	1001.17	1008.85		1009.51	0.001587	6.53	8329.65	1369.86	0.47
Reach	8.44	Floodplain	54400.00	1001.03	1008.53		1009.22	0.001588	6.65	8182.52	1315.89	0.47
Reach	8.44	Floodway	54400.00	1001.03	1008.53		1009.22	0.001588	6.65	8182.52	1315.89	0.47
Reach	8.35	Floodplain	54400.00	998.47	1007.84		1008.55	0.001321	6.73	8082.49	1109.96	0.44
Reach	8.35	Floodway	54400.00	998.47	1007.84		1008.55	0.001321	6.73	8082.49	1109.96	0.44
Reach	8.26	Floodplain	54400.00	997.97	1007.11		1007.87	0.001353	6.99	7787.53	1029.89	0.45
Reach	8.26	Floodway	54400.00	997.97	1007.11		1007.87	0.001353	6.99	7787.53	1029.89	0.45
Reach	8.16	Floodplain	54400.00	996.42	1006.21		1007.08	0.001649	7.49	7261.63	1005.38	0.49
Reach	8.16	Floodway	54400.00	996.42	1006.21		1007.08	0.001649	7.49	7261.63	1005.38	0.49
Reach	8.07	Floodplain	54400.00	996.28	1005.28		1006.25	0.001963	7.94	6853.97	984.15	0.53
Reach	8.07	Floodway	54400.00	996.28	1005.28		1006.25	0.001963	7.94	6853.97	984.15	0.53
Reach	7.98	Floodplain	54400.00	994.78	1004.15		1005.19	0.002130	8.17	6658.72	980.38	0.55
Reach	7.98	Floodway	54400.00	994.78	1004.15		1005.19	0.002130	8.17	6658.72	980.38	0.55
Reach	7.88	Floodplain	54400.00	992.51	1003.07		1004.09	0.002136	8.09	6722.33	1005.25	0.55

HEC-RAS Plan: afr revised River: Stream Reach: Reach (Continued)

Reach	River Sta	Profile	Q Total (cfs)	Min Ch El (ft)	W.S. Elev (ft)	Crit W.S. (ft)	E.G. Elev (ft)	E.G. Slope (ft/ft)	Vel Chnl (ft/s)	Flow Area (sq ft)	Top Width (ft)	Froude # Chl
Reach	7.88	Floodway	54400.00	992.51	1003.07		1004.09	0.002136	8.09	6722.33	1005.25	0.55
Reach	7.78	Floodplain	54400.00	992.02	1002.00	999.82	1003.00	0.002139	8.03	6775.39	1027.28	0.55
Reach	7.78	Floodway	54400.00	992.02	1002.00	999.82	1003.00	0.002139	8.03	6775.39	1027.28	0.55
Reach	7.69	Floodplain	54400.00	991.78	1001.06		1001.98	0.001948	7.70	7062.33	1061.48	0.53
Reach	7.69	Floodway	54400.00	991.78	1001.06		1001.98	0.001948	7.70	7062.33	1061.48	0.53
Reach	7.60	Floodplain	54400.00	991.01	1000.11		1001.01	0.001931	7.62	7142.91	1084.80	0.52
Reach	7.60	Floodway	54400.00	991.01	1000.11		1001.01	0.001931	7.62	7142.91	1084.80	0.52
Reach	7.57	Floodplain	54400.00	991.47	999.52		1000.69	0.002679	8.68	6269.38	996.44	0.61
Reach	7.57	Floodway	54400.00	991.47	999.52		1000.69	0.002679	8.68	6269.38	996.44	0.61
Reach	7.55	Floodplain	54400.00	991.13	999.44		1000.38	0.002094	7.77	6998.17	1095.91	0.54
Reach	7.55	Floodway	54400.00	991.13	999.44		1000.38	0.002094	7.77	6998.17	1095.91	0.54
Reach	7.51	Floodplain	54400.00	991.04	998.99		999.89	0.001985	7.61	7146.71	1109.52	0.53
Reach	7.51	Floodway	54400.00	991.04	998.99		999.89	0.001985	7.61	7146.71	1109.52	0.53
Reach	7.48	Floodplain	54400.00	990.90	998.43		999.57	0.002642	8.58	6342.19	1014.73	0.60
Reach	7.48	Floodway	54400.00	990.90	998.43		999.57	0.002642	8.58	6342.19	1014.73	0.60
Reach	7.46	Floodplain	54400.00	990.90	998.33		999.26	0.002173	7.76	7008.19	1130.91	0.55
Reach	7.46	Floodway	54400.00	990.90	998.33		999.26	0.002173	7.76	7008.19	1130.91	0.55
Reach	7.42	Floodplain	54400.00	990.14	997.74		998.73	0.002341	7.95	6841.13	1125.52	0.57
Reach	7.42	Floodway	54400.00	990.14	997.74		998.73	0.002341	7.95	6841.13	1125.52	0.57
Reach	7.40	Floodplain	54400.00	990.22	996.91		998.37	0.004020	9.72	5594.57	1016.27	0.73
Reach	7.40	Floodway	54400.00	990.22	996.91		998.37	0.004020	9.72	5594.57	1016.27	0.73
Reach	7.38	Floodplain	54400.00	989.87	996.70		997.94	0.003368	8.92	6099.28	1108.72	0.67
Reach	7.38	Floodway	54400.00	989.87	996.70		997.94	0.003368	8.92	6099.28	1108.72	0.67
Reach	7.31	Floodplain	54400.00	985.41	996.35		997.04	0.001262	6.64	8192.83	1111.80	0.43
Reach	7.31	Floodway	54400.00	985.41	996.35		997.04	0.001262	6.64	8192.83	1111.80	0.43
Reach	7.29	Floodplain	54400.00	985.13	995.90		996.84	0.001924	7.81	6962.10	1010.85	0.52
Reach	7.29	Floodway	54400.00	985.13	995.90		996.84	0.001924	7.81	6962.10	1010.85	0.52
Reach	7.27	Floodplain	54400.00	985.37	995.84		996.62	0.001569	7.09	7675.69	1112.65	0.48
Reach	7.27	Floodway	54400.00	985.37	995.84		996.62	0.001569	7.09	7675.69	1112.65	0.48
Reach	7.23	Floodplain	54400.00	984.36	995.45		996.24	0.001604	7.13	7626.06	1112.94	0.48
Reach	7.23	Floodway	54400.00	984.36	995.45		996.24	0.001604	7.13	7626.06	1112.94	0.48
Reach	7.21	Floodplain	54400.00	983.84	995.04		996.04	0.002096	8.01	6790.07	1012.86	0.55
Reach	7.21	Floodway	54400.00	983.84	995.04		996.04	0.002096	8.01	6790.07	1012.86	0.55
Reach	7.18	Floodplain	54400.00	983.94	994.97		995.73	0.001524	7.03	7742.22	1111.86	0.47
Reach	7.18	Floodway	54400.00	983.94	994.97		995.73	0.001524	7.03	7742.22	1111.86	0.47
Reach	7.16	Floodplain	54400.00	984.29	994.71		995.52	0.001665	7.21	7542.98	1113.13	0.49
Reach	7.16	Floodway	54400.00	984.29	994.71		995.52	0.001665	7.21	7542.98	1113.13	0.49
Reach	7.13	Floodplain	54400.00	984.24	994.56		995.29	0.001411	6.86	7924.77	1112.96	0.45
Reach	7.13	Floodway	54400.00	984.24	994.56		995.29	0.001411	6.86	7924.77	1112.96	0.45
Reach	7.10	Floodplain	54400.00	984.11	994.03		995.02	0.002058	7.97	6829.69	1013.55	0.54
Reach	7.10	Floodway	54400.00	984.11	994.03		995.02	0.002058	7.97	6829.69	1013.55	0.54
Reach	7.08	Floodplain	54400.00	983.59	993.92		994.77	0.001817	7.41	7338.35	1110.40	0.51
Reach	7.08	Floodway	54400.00	983.59	993.92		994.77	0.001817	7.41	7338.35	1110.40	0.51
Reach	7.05	Floodplain	54400.00	983.50	993.68		994.49	0.001667	7.23	7524.67	1106.30	0.49
Reach	7.05	Floodway	54400.00	983.50	993.68		994.49	0.001667	7.23	7524.67	1106.30	0.49
Reach	7.03	Floodplain	54400.00	983.37	993.19		994.26	0.002313	8.28	6570.99	1002.81	0.57
Reach	7.03	Floodway	54400.00	983.37	993.19		994.26	0.002313	8.28	6570.99	1002.81	0.57
Reach	7.02	Floodplain	54400.00	983.39	993.16		994.01	0.001788	7.42	7336.45	1095.68	0.50
Reach	7.02	Floodway	54400.00	983.39	993.16		994.01	0.001788	7.42	7336.45	1095.68	0.50
Reach	6.93	Floodplain	54400.00	983.06	992.43		993.26	0.001649	7.31	7438.20	1068.19	0.49
Reach	6.93	Floodway	54400.00	983.06	992.43		993.26	0.001649	7.31	7438.20	1068.19	0.49
Reach	6.85	Floodplain	54400.00	982.55	991.66		992.49	0.001732	7.34	7409.02	1097.03	0.50
Reach	6.85	Floodway	54400.00	982.55	991.66		992.49	0.001732	7.34	7409.02	1097.03	0.50

HEC-RAS Plan: afr revised River: Stream Reach: Reach (Continued)

Reach	River Sta	Profile	Q Total (cfs)	Min Ch El (ft)	W.S. Elev (ft)	Crit W.S. (ft)	E.G. Elev (ft)	E.G. Slope (ft/ft)	Vel Chnl (ft/s)	Flow Area (sq ft)	Top Width (ft)	Froude # Chl
Reach	6.75	Floodplain	54400.00	982.68	990.46		991.44	0.002276	7.92	6871.20	1115.71	0.56
Reach	6.75	Floodway	54400.00	982.68	990.46		991.44	0.002276	7.92	6871.20	1115.71	0.56
Reach	6.66	Floodplain	54400.00	982.04	988.81		990.08	0.003527	9.04	6019.63	1112.97	0.68
Reach	6.66	Floodway	54400.00	982.04	988.81		990.08	0.003527	9.04	6019.63	1112.97	0.68
Reach	6.57	Floodplain	54400.00	979.84	987.84		988.71	0.001893	7.50	7251.22	1111.78	0.52
Reach	6.57	Floodway	54400.00	979.84	987.84		988.71	0.001893	7.50	7251.22	1111.78	0.52
Reach	6.49	Floodplain	54400.00	976.93	987.25		988.00	0.001473	6.95	7822.74	1112.74	0.46
Reach	6.49	Floodway	54400.00	976.93	987.25		988.00	0.001473	6.95	7822.74	1112.74	0.46
Reach	6.39	Floodplain	54400.00	976.59	986.43		987.23	0.001639	7.18	7580.95	1114.27	0.48
Reach	6.39	Floodway	54400.00	976.59	986.43		987.23	0.001639	7.18	7580.95	1114.27	0.48
Reach	6.30	Floodplain	54400.00	975.54	985.69		986.44	0.001484	6.97	7805.70	1112.87	0.46
Reach	6.30	Floodway	54400.00	975.54	985.69		986.44	0.001484	6.97	7805.70	1112.87	0.46
Reach	6.27	Floodplain	54400.00	975.73	985.26		986.17	0.001820	7.65	7107.32	1021.07	0.51
Reach	6.27	Floodway	54400.00	975.73	985.26		986.17	0.001820	7.65	7107.32	1021.07	0.51
Reach	6.24	Floodplain	54400.00	975.19	985.15		985.88	0.001407	6.83	7964.63	1125.76	0.45
Reach	6.24	Floodway	54400.00	975.19	985.15		985.88	0.001407	6.83	7964.63	1125.76	0.45
Reach	6.22	Floodplain	54400.00	975.60	984.92		985.67	0.001492	6.96	7815.77	1122.64	0.46
Reach	6.22	Floodway	54400.00	975.60	984.92		985.67	0.001492	6.96	7815.77	1122.64	0.46
Reach	6.16	Floodplain	54400.00	975.63	984.47	981.51	985.14	0.001830	6.55	8308.69	1212.01	0.44
Reach	6.16	Floodway	54400.00	975.63	984.47	981.51	985.14	0.001830	6.55	8308.69	1212.01	0.44
Reach	6.155		Bridge									
Reach	6.15	Floodplain	54400.00	976.22	984.26		984.96	0.001958	6.68	8140.13	1211.77	0.45
Reach	6.15	Floodway	54400.00	976.22	984.26		984.96	0.001958	6.68	8140.13	1211.77	0.45
Reach	6.11	Floodplain	54400.00	973.96	983.68		984.50	0.002375	7.27	7481.83	1132.14	0.50
Reach	6.11	Floodway	54400.00	973.96	983.68		984.50	0.002375	7.27	7481.83	1132.14	0.50
Reach	6.00	Floodplain	54400.00	974.45	982.40	979.81	983.15	0.002152	6.93	7865.89	1802.77	0.47
Reach	6.00	Floodway	54400.00	974.45	982.40	979.81	983.15	0.002152	6.93	7865.89	1802.77	0.47
Reach	5.97	Floodplain	54400.00	974.20	981.94	979.63	982.81	0.002617	7.49	7276.90	1521.79	0.52
Reach	5.97	Floodway	54400.00	974.20	981.94	979.63	982.81	0.002617	7.49	7276.90	1521.79	0.52
Reach	5.94	Floodplain	54400.00	973.34	981.73	978.96	982.40	0.001907	6.55	8309.40	1364.80	0.45
Reach	5.94	Floodway	54400.00	973.34	981.73	978.96	982.40	0.001907	6.55	8309.40	1364.80	0.45
Reach	5.84	Floodplain	54400.00	971.86	980.28		981.11	0.002836	7.31	7438.19	1272.35	0.53
Reach	5.84	Floodway	54400.00	971.86	980.28		981.11	0.002836	7.31	7438.19	1272.35	0.53
Reach	5.78	Floodplain	52000.00	971.89	979.69	977.53	980.38	0.002434	6.68	7785.09	1363.11	0.49
Reach	5.78	Floodway	52000.00	971.89	979.69	977.53	980.38	0.002434	6.68	7785.09	1363.11	0.49
Reach	5.76		Bridge									
Reach	5.74	Floodplain	52000.00	971.30	978.97		979.68	0.002455	6.74	7713.59	1340.86	0.50
Reach	5.74	Floodway	52000.00	971.30	978.97		979.68	0.002455	6.74	7713.51	1340.86	0.50
Reach	5.72	Floodplain	52000.00	970.24	978.29		979.28	0.003907	8.02	6539.18	1249.43	0.62
Reach	5.72	Floodway	52000.00	970.24	978.29		979.28	0.003907	8.02	6539.11	1249.43	0.62
Reach	5.69	Floodplain	52000.00	969.97	977.87	976.36	978.76	0.003714	7.58	6862.48	1363.43	0.60
Reach	5.69	Floodway	52000.00	969.97	977.87	976.36	978.76	0.003714	7.58	6862.48	1363.43	0.60
Reach	5.65	Floodplain	52000.00	971.21	975.53	975.53	977.29	0.011836	10.64	4889.10	1396.21	1.00
Reach	5.65	Floodway	52000.00	971.21	975.53	975.53	977.29	0.011835	10.64	4889.27	1396.21	1.00
Reach	5.60	Floodplain	52000.00	965.42	975.14		975.58	0.001168	5.33	9759.45	1381.96	0.35
Reach	5.60	Floodway	52000.00	965.42	975.14		975.58	0.001168	5.33	9759.45	1381.96	0.35
Reach	5.54	Floodplain	52000.00	965.79	974.76		975.24	0.001302	5.56	9355.56	1348.32	0.37
Reach	5.54	Floodway	52000.00	965.79	974.76		975.24	0.001302	5.56	9355.56	1348.32	0.37
Reach	5.47	Floodplain	52000.00	965.32	974.24		974.73	0.001240	5.58	9316.01	1285.74	0.37
Reach	5.47	Floodway	52000.00	965.32	974.24		974.73	0.001240	5.58	9316.01	1285.74	0.37
Reach	5.45	Floodplain	52000.00	965.25	974.02		974.58	0.001413	5.99	8676.76	1180.91	0.39
Reach	5.45	Floodway	52000.00	965.25	974.02		974.58	0.001413	5.99	8676.76	1180.91	0.39

HEC-RAS Plan: afr revised River: Stream Reach: Reach (Continued)

Reach	River Sta	Profile	Q Total (cfs)	Min Ch El (ft)	W.S. Elev (ft)	Crit W.S. (ft)	E.G. Elev (ft)	E.G. Slope (ft/ft)	Vel Chnl (ft/s)	Flow Area (sq ft)	Top Width (ft)	Froude # Chl
Reach	5.43	Floodplain	52000.00	964.86	973.95		974.44	0.001224	5.61	9264.62	1255.11	0.36
Reach	5.43	Floodway	52000.00	964.86	973.95		974.44	0.001224	5.61	9264.62	1255.11	0.36
Reach	5.33	Floodplain	52000.00	963.66	973.15		973.74	0.001512	6.14	8475.09	1174.49	0.40
Reach	5.33	Floodway	52000.00	963.66	973.15		973.74	0.001512	6.14	8475.09	1174.49	0.40
Reach	5.24	Floodplain	52000.00	963.41	972.07		972.84	0.002254	7.05	7371.13	1117.50	0.48
Reach	5.24	Floodway	52000.00	963.41	972.07		972.84	0.002254	7.05	7371.13	1117.50	0.48
Reach	5.21	Floodplain	52000.00	962.04	971.78	968.66	972.43	0.001707	6.48	8020.41	1123.72	0.43
Reach	5.21	Floodway	52000.00	962.04	971.78	968.66	972.43	0.001707	6.48	8020.41	1123.72	0.43
Reach	5.2	Bridge										
Reach	5.19	Floodplain	52000.00	961.93	971.31		972.10	0.002322	7.12	7301.22	1118.97	0.49
Reach	5.19	Floodway	52000.00	961.93	971.31		972.10	0.002322	7.12	7301.22	1118.97	0.49
Reach	5.15	Floodplain	52000.00	962.81	970.88		971.58	0.001880	6.71	7754.64	1110.01	0.45
Reach	5.15	Floodway	52000.00	962.81	970.88		971.58	0.001880	6.71	7754.64	1110.01	0.45
Reach	5.05	Floodplain	52000.00	961.88	970.16		970.82	0.001265	6.53	7960.06	1109.94	0.43
Reach	5.05	Floodway	52000.00	961.88	970.16		970.82	0.001265	6.53	7960.06	1109.94	0.43
Reach	4.97	Floodplain	52000.00	961.47	969.44		970.21	0.001625	7.04	7384.98	1109.91	0.48
Reach	4.97	Floodway	52000.00	961.47	969.44		970.21	0.001625	7.04	7384.98	1109.91	0.48
Reach	4.95	Floodplain	52000.00	960.07	969.13		970.00	0.001763	7.48	6951.96	1008.03	0.50
Reach	4.95	Floodway	52000.00	960.07	969.13		970.00	0.001763	7.48	6951.96	1008.03	0.50
Reach	4.93	Floodplain	52000.00	960.51	969.10		969.77	0.001288	6.56	7926.13	1111.37	0.43
Reach	4.93	Floodway	52000.00	960.51	969.10		969.77	0.001288	6.56	7926.13	1111.37	0.43
Reach	4.84	Floodplain	52000.00	959.43	968.51		969.15	0.001205	6.43	8087.04	1111.68	0.42
Reach	4.84	Floodway	52000.00	959.43	968.51		969.15	0.001205	6.43	8087.04	1111.68	0.42
Reach	4.74	Floodplain	52000.00	959.05	967.83		968.52	0.001352	6.66	7808.64	1111.45	0.44
Reach	4.74	Floodway	52000.00	959.05	967.83		968.52	0.001352	6.66	7808.64	1111.45	0.44
Reach	4.72	Floodplain	52000.00	958.65	967.41		968.31	0.001877	7.62	6824.34	1010.96	0.52
Reach	4.72	Floodway	52000.00	958.65	967.41		968.31	0.001877	7.62	6824.34	1010.96	0.52
Reach	4.70	Floodplain	52000.00	958.28	967.39		968.10	0.001444	6.79	7661.21	1113.88	0.46
Reach	4.70	Floodway	52000.00	958.28	967.39		968.10	0.001444	6.79	7661.27	1113.88	0.46
Reach	4.61	Floodplain	52000.00	957.84	966.50		967.30	0.001735	7.18	7246.15	1112.52	0.50
Reach	4.61	Floodway	52000.00	957.84	966.50		967.30	0.001735	7.18	7246.28	1112.52	0.50
Reach	4.55	Floodplain	52000.00	959.31	964.16	964.16	966.22	0.008363	11.51	4517.09	1111.06	1.01
Reach	4.55	Floodway	52000.00	959.31	964.16	964.16	966.22	0.008366	11.51	4516.61	1111.06	1.01
Reach	4.51	Floodplain	52000.00	953.67	964.63		965.00	0.000666	4.90	10609.49	1113.55	0.28
Reach	4.51	Floodway	52000.00	953.67	964.63		965.00	0.000666	4.90	10609.55	1113.55	0.28
Reach	4.49	Floodplain	52000.00	955.54	964.14		964.85	0.001750	6.78	7674.35	1017.03	0.43
Reach	4.49	Floodway	52000.00	955.54	964.14		964.85	0.001750	6.78	7674.41	1017.03	0.43
Reach	4.47	Floodplain	52000.00	955.51	964.08		964.66	0.001392	6.12	8497.03	1112.69	0.39
Reach	4.47	Floodway	52000.00	955.51	964.08		964.66	0.001392	6.12	8497.10	1112.69	0.39
Reach	4.38	Floodplain	52000.00	954.94	963.18		963.86	0.001797	6.61	7870.87	1113.69	0.44
Reach	4.38	Floodway	52000.00	954.94	963.18		963.86	0.001797	6.61	7871.00	1113.69	0.44
Reach	4.28	Floodplain	52000.00	954.12	962.29		962.95	0.001774	6.53	7966.48	1137.53	0.43
Reach	4.28	Floodway	52000.00	954.12	962.29		962.95	0.001774	6.53	7966.62	1137.53	0.43
Reach	4.26	Floodplain	52000.00	953.71	961.83		962.73	0.002572	7.61	6829.71	1017.41	0.52
Reach	4.26	Floodway	52000.00	953.71	961.83		962.73	0.002572	7.61	6829.89	1017.41	0.52
Reach	4.25	Floodplain	50900.00	954.06	961.79		962.49	0.001936	6.71	7590.94	1111.88	0.45
Reach	4.25	Floodway	50900.00	954.06	961.79		962.49	0.001936	6.71	7591.21	1111.88	0.45
Reach	4.22	Floodplain	50900.00	954.06	961.49	958.82	962.22	0.002073	6.83	7447.85	1115.75	0.47
Reach	4.22	Floodway	50900.00	954.06	961.49	958.82	962.22	0.002072	6.83	7448.06	1115.75	0.47
Reach	4.215	Bridge										
Reach	4.21	Floodplain	50900.00	954.49	960.93	958.81	961.79	0.002776	7.47	6818.43	1113.59	0.53
Reach	4.21	Floodway	50900.00	954.49	960.93	958.81	961.79	0.002776	7.46	6818.71	1113.59	0.53

HEC-RAS Plan: afr revised River: Stream Reach: Reach (Continued)

Reach	River Sta	Profile	Q Total (cfs)	Min Ch El (ft)	W.S. Elev (ft)	Crit W.S. (ft)	E.G. Elev (ft)	E.G. Slope (ft/ft)	Vel Chnl (ft/s)	Flow Area (sq ft)	Top Width (ft)	Froude # Chl
Reach	4.20		Bridge									
Reach	4.18	Floodplain	50900.00	954.20	960.05		961.13	0.004021	8.34	6106.63	1116.38	0.63
Reach	4.18	Floodway	50900.00	954.20	960.05		961.13	0.004021	8.34	6106.70	1116.38	0.63
Reach	4.13	Floodplain	50900.00	944.30	959.22		960.27	0.002676	8.20	6209.83	865.66	0.54
Reach	4.13	Floodway	50900.00	944.30	959.22		960.27	0.002675	8.20	6209.99	865.67	0.54
Reach	4.09	Floodplain	50900.00	942.80	958.42		959.59	0.002982	8.66	5875.40	807.33	0.57
Reach	4.09	Floodway	50900.00	942.80	958.42		959.59	0.002982	8.66	5875.69	807.33	0.57
Reach	4.00	Floodplain	50900.00	945.68	957.00	954.94	958.10	0.003116	8.45	6094.55	937.82	0.57
Reach	4.00	Floodway	50900.00	945.68	957.00	954.94	958.10	0.003115	8.44	6095.47	937.83	0.57
Reach	3.92	Floodplain	50900.00	944.62	955.45		956.64	0.004251	8.79	5870.53	1098.90	0.65
Reach	3.92	Floodway	50900.00	944.62	955.46		956.64	0.004231	8.78	5879.58	1099.02	0.65
Reach	3.88	Floodplain	50900.00	943.93	954.67		955.74	0.003902	8.29	6189.08	1185.29	0.62
Reach	3.88	Floodway	50900.00	943.93	954.69		955.75	0.003862	8.26	6209.19	1185.56	0.62
Reach	3.85	Floodplain	50900.00	942.17	953.83		955.05	0.005066	8.85	5756.96	1173.22	0.69
Reach	3.85	Floodway	50900.00	942.17	953.88		955.08	0.004918	8.77	5812.96	1179.34	0.69
Reach	3.81	Floodplain	50900.00	941.36	953.76		954.35	0.001720	6.16	8279.06	1299.71	0.42
Reach	3.81	Floodway	50900.00	941.36	953.81		954.39	0.001675	6.11	8346.81	1299.93	0.42
Reach	3.73	Floodplain	50900.00	939.04	953.24	949.34	953.68	0.001152	5.30	9604.49	1356.28	0.35
Reach	3.73	Floodway	50900.00	939.04	953.31	949.34	953.74	0.001116	5.25	9699.27	1356.46	0.35
Reach	3.62	Floodplain	50900.00	941.81	952.43		952.90	0.001627	5.48	9302.70	1661.43	0.40
Reach	3.62	Floodway	50900.00	941.81	952.55		953.00	0.001521	5.37	9500.91	1738.53	0.39
Reach	3.53	Floodplain	50900.00	940.63	951.68		952.10	0.001640	5.23	10035.94	2425.88	0.40
Reach	3.53	Floodway	50900.00	940.63	951.86		952.26	0.001493	5.10	9985.91	1818.44	0.38
Reach	3.43	Floodplain	50900.00	941.49	950.84	948.05	951.24	0.001637	5.13	10030.19	1996.24	0.40
Reach	3.43	Floodway	50900.00	941.49	951.12	948.04	951.50	0.001407	4.92	10349.80	1902.30	0.37
Reach	3.34	Floodplain	50900.00	939.40	950.30	947.16	950.57	0.001014	4.31	12225.25	2134.41	0.32
Reach	3.34	Floodway	50900.00	939.40	950.60	947.32	950.89	0.000994	4.41	11911.97	1984.79	0.32
Reach	3.24	Floodplain	50900.00	938.61	949.72		950.02	0.001171	4.46	11405.26	2114.40	0.34
Reach	3.24	Floodway	50900.00	938.61	950.12		950.40	0.000965	4.29	11875.82	2019.06	0.31
Reach	3.15	Floodplain	50900.00	937.88	949.24		949.50	0.000870	4.33	13159.83	2590.89	0.30
Reach	3.15	Floodway	50900.00	937.88	949.73		949.97	0.000708	4.10	12996.82	1984.31	0.27
Reach	3.05	Floodplain	50900.00	936.05	948.56		948.94	0.001322	5.26	11096.78	2333.23	0.37
Reach	3.05	Floodway	50900.00	936.05	949.15		949.51	0.001081	5.04	10870.67	1761.76	0.34
Reach	2.95	Floodplain	50900.00	935.35	947.68		948.16	0.001773	5.93	10064.28	2246.43	0.42
Reach	2.95	Floodway	50900.00	935.35	948.40		948.89	0.001451	5.77	9413.65	1576.89	0.39
Reach	2.85	Floodplain	50900.00	935.73	946.84		947.25	0.001590	5.73	11224.09	2567.61	0.40
Reach	2.85	Floodway	50900.00	935.73	947.60		948.11	0.001495	6.00	9440.78	1602.94	0.40
Reach	2.74	Floodplain	50900.00	935.48	945.80		946.37	0.001876	7.02	10454.62	2566.29	0.45
Reach	2.74	Floodway	50900.00	935.48	946.44		947.19	0.001946	7.54	8192.71	1378.56	0.47
Reach	2.64	Floodplain	50900.00	934.03	944.62		945.33	0.002251	8.19	10039.49	2718.18	0.50
Reach	2.64	Floodway	50900.00	934.03	945.23		946.11	0.002246	8.57	7888.46	1369.80	0.51
Reach	2.54	Floodplain	50900.00	933.03	943.54		944.20	0.002426	7.27	9886.05	2987.85	0.50
Reach	2.54	Floodway	50900.00	933.03	944.15		944.95	0.002345	7.58	7770.44	1424.73	0.50
Reach	2.46	Floodplain	50900.00	932.25	942.69		943.23	0.002269	6.40	10360.29	3230.66	0.47
Reach	2.46	Floodway	50900.00	932.25	943.25		943.97	0.002308	6.87	7837.49	1517.46	0.49
Reach	2.38	Floodplain	50900.00	931.87	941.88		942.35	0.001969	5.96	11057.27	3465.33	0.44
Reach	2.38	Floodway	50900.00	931.87	942.33		942.98	0.002172	6.58	8216.26	1662.05	0.47
Reach	2.29	Floodplain	50900.00	931.11	940.93		941.45	0.002294	6.11	10409.80	3644.53	0.47
Reach	2.29	Floodway	50900.00	931.11	941.33		941.96	0.002311	6.44	8286.70	1832.52	0.48
Reach	2.20	Floodplain	50900.00	930.51	939.86		940.44	0.002091	6.40	9721.90	3554.79	0.46
Reach	2.20	Floodway	50900.00	930.51	940.31		940.95	0.001927	6.45	8356.23	2000.71	0.45
Reach	2.12	Floodplain	50900.00	929.11	939.06		939.61	0.001877	6.11	9737.34	3186.94	0.44

HEC-RAS Plan: afr revised River: Stream Reach: Reach (Continued)

Reach	River Sta	Profile	Q Total (cfs)	Min Ch El (ft)	W.S. Elev (ft)	Crit W.S. (ft)	E.G. Elev (ft)	E.G. Slope (ft/ft)	Vel Chnl (ft/s)	Flow Area (sq ft)	Top Width (ft)	Froude # Chl
Reach	2.12	Floodway	50900.00	929.11	939.65		940.17	0.001560	5.83	9142.32	1984.34	0.40
Reach	2.04	Floodplain	50900.00	928.43	938.35		938.83	0.001870	5.99	10873.00	3742.22	0.43
Reach	2.04	Floodway	50900.00	928.43	938.74		939.40	0.002127	6.58	8240.31	1872.76	0.47
Reach	1.94	Floodplain	50900.00	927.22	937.47		937.98	0.001561	6.02	10936.04	3831.01	0.41
Reach	1.94	Floodway	50900.00	927.22	937.86		938.45	0.001560	6.24	8893.09	1944.99	0.41
Reach	1.83	Floodplain	50900.00	926.11	936.67		937.17	0.001355	6.07	11378.64	3537.88	0.39
Reach	1.83	Floodway	50900.00	926.11	937.08		937.63	0.001317	6.19	9464.97	1807.93	0.38
Reach	1.74	Floodplain	50900.00	925.70	936.04		936.55	0.001306	6.20	11498.19	3528.02	0.38
Reach	1.74	Floodway	50900.00	925.70	936.39		937.00	0.001343	6.47	9238.60	1765.28	0.39
Reach	1.64	Floodplain	50900.00	916.22	935.33		935.92	0.001155	6.67	10677.67	3730.04	0.37
Reach	1.64	Floodway	50900.00	916.22	935.82		936.39	0.001019	6.46	10011.03	1657.73	0.35
Reach	1.54	Floodplain	50900.00	922.96	933.90	931.96	935.00	0.002785	8.93	7534.37	3754.93	0.56
Reach	1.54	Floodway	50900.00	922.96	934.14	931.60	935.49	0.003017	9.48	6179.70	1590.20	0.58
Reach	1.45	Floodplain	50900.00	922.68	932.34	930.25	933.52	0.003002	9.04	7543.01	3461.44	0.57
Reach	1.45	Floodway	50900.00	922.68	932.94	930.15	934.02	0.002453	8.59	6856.68	1458.70	0.53
Reach	1.35	Floodplain	50900.00	921.75	931.38	928.71	932.16	0.002108	7.55	9588.97	4572.14	0.48
Reach	1.35	Floodway	50900.00	921.75	932.21	928.71	932.94	0.001635	7.11	8393.83	1545.92	0.43
Reach	1.27	Floodplain	50900.00	920.99	931.06	927.55	931.40	0.001040	5.19	13755.12	4756.80	0.34
Reach	1.27	Floodway	50900.00	920.99	931.89	927.54	932.30	0.000950	5.32	10728.11	1637.51	0.33
Reach	1.15	Floodplain	50900.00	919.58	930.32	927.62	930.68	0.001231	5.25	13883.38	5754.37	0.36
Reach	1.15	Floodway	50900.00	919.58	931.27	927.79	931.66	0.001043	5.31	11046.02	1850.84	0.34
Reach	1.05	Floodplain	50900.00	919.54	929.42		929.89	0.001918	6.10	13398.17	6232.50	0.44
Reach	1.05	Floodway	50900.00	919.54	930.21		930.90	0.002064	6.89	8643.20	1724.07	0.46
Reach	0.97	Floodplain	50900.00	918.18	927.97		928.64	0.004304	7.45	11611.83	7310.48	0.63
Reach	0.97	Floodway	50900.00	918.18	928.47		929.52	0.004784	8.64	7367.79	1879.53	0.68
Reach	0.88	Floodplain	50900.00	917.26	927.08	925.33	927.38	0.001593	5.13	13968.34	7759.55	0.39
Reach	0.88	Floodway	50900.00	917.26	927.73	925.59	928.14	0.001577	5.66	10972.57	2277.94	0.40
Reach	0.78	Floodplain	50900.00	916.23	925.60	924.31	926.25	0.003166	6.82	10355.76	7548.77	0.55
Reach	0.78	Floodway	50900.00	916.23	926.29	924.89	927.05	0.002941	7.28	8140.94	2171.70	0.54
Reach	0.69	Floodplain	50900.00	915.17	924.64	923.17	925.00	0.001919	5.30	13132.80	8728.42	0.43
Reach	0.69	Floodway	50900.00	915.17	925.40	923.65	925.86	0.001838	5.86	10641.24	2624.98	0.43
Reach	0.59	Floodplain	50900.00	914.89	923.58	921.97	923.97	0.001963	5.52	14363.88	9799.55	0.43
Reach	0.59	Floodway	50900.00	914.89	924.19	922.76	924.75	0.002338	6.46	9882.27	2650.66	0.48
Reach	0.49	Floodplain	50900.00	912.82	922.03	920.57	922.72	0.002875	6.99	8750.89	7586.14	0.53
Reach	0.49	Floodway	50900.00	912.82	922.41	920.50	923.33	0.003108	7.72	6597.24	2484.06	0.56
Reach	0.40	Floodplain	50900.00	912.16	919.01	919.01	920.41	0.008418	10.00	6267.17	6971.14	0.87
Reach	0.40	Floodway	50900.00	912.16	919.04	919.04	920.76	0.009848	10.96	5395.96	2167.19	0.94
Reach	0.32	Floodplain	50900.00	911.31	917.54	917.54	918.92	0.016346	10.87	5871.20	5277.81	1.14
Reach	0.32	Floodway	50900.00	911.31	917.55	917.55	918.97	0.016666	11.00	5759.90	2216.08	1.15

**Agua Fria River Re-Delineation Study  
FCD # 2007C053 Assignment #3**

**Floodplain Summary for Effective HEC-2, Duplicate Effective and Proposed HEC-RAS Models**

Effective Cross		HEC-2 Effective Model Results			HEC-RAS - HEC-2 Differences			Proposed HEC-RAS Model			
Cross Section	Q Total cfs	WSEL	Vel Chnl fps	Top Width ft	WSEL Diff ft	Vel Diff fps	Top Width Diff ft	Revised HEC- RAS Cross- Section ID's	Revised Floodplain WSEL	Effective WSEL + 2.061'	Revised Floodway WSEL
9.435	54400	1025.38	6.04	2307.82	0	0	-7.06	9.961	1027.05	1027.441	1027.06
9.343	54400	1024.39	5.86	2503.8	-0.01	0.03	61.9	9.869	1025.76	1026.451	1025.77
9.266	54400	1023.69	5.3	2258.31	0.03	-0.14	115.58	9.792	1024.66	1025.751	1024.67
9.198	54400	1022.92	5.78	1692.5	0.02	-0.02	0.18	9.725	1023.88	1024.981	1023.9
9.191	54400	1022.88	5.5	1685.9	0.03	-0.03	0.19	deleted	-	-	-
Bridge											
9.177	54400	1022.82	5.62	1692.83	0.03	-0.03	0.23	9.704	1023.29	1024.881	1023.32
-	-	-	-	-	-	-	-	9.686	1023.07	-	1023.1
-	-	-	-	-	-	-	-	9.663	1022.73	-	1022.71
-	-	-	-	-	-	-	-	9.643	1022.1	-	1022.1
9.098	54400	1022.22	5.21	1825.25	0.03	-0.02	0.47	9.624	1020.99	1024.281	1021.06
-	-	-	-	-	-	-	-	9.602	1020.07	-	1019.98
-	-	-	-	-	-	-	-	9.569	1017.86	-	1017.85
-	-	-	-	-	-	-	-	9.546	1014.63	-	1014.64
8.992	54400	1021.34	5.47	2206.57	0.05	-0.03	-26.09	9.518	1014.21	1023.401	1014.23
-	-	-	-	-	-	-	-	9.487	1014.14	-	1014.16
-	-	-	-	-	-	-	-	9.467	1014.08	-	1014.1
-	-	-	-	-	-	-	-	9.445	1014	-	1014.02
-	-	-	-	-	-	-	-	9.422	1013.94	-	1013.97
8.875	54400	1019.52	8.18	2837.14	0.1	-0.04	-14.91	9.400	1013.9	1021.581	1013.93
-	-	-	-	-	-	-	-	9.379	1013.85	-	1013.89
-	-	-	-	-	-	-	-	9.353	1013.8	-	1013.83
-	-	-	-	-	-	-	-	9.324	1013.73	-	1013.77
8.768	54400	1017.26	8.52	3037.83	0.12	0.23	45.63	9.292	1013.65	1019.321	1013.69
-	-	-	-	-	-	-	-	9.267	1013.6	-	1013.63
-	-	-	-	-	-	-	-	9.225	1013.55	-	1013.59
-	-	-	-	-	-	-	-	9.193	1013.51	-	1013.55
8.646	54400	1015.75	5.27	2548.87	0.06	0.12	3.94	9.172	1013.5	1017.811	1013.54
-	-	-	-	-	-	-	-	9.131	1013.47	-	1013.51
-	-	-	-	-	-	-	-	9.109	1013.45	-	1013.49
-	-	-	-	-	-	-	-	9.082	1013.44	-	1013.47
8.534	54400	1014.38	5.16	2607.48	0.05	0.07	0.26	9.059	1013.42	1016.441	1013.46
-	-	-	-	-	-	-	-	9.038	1013.4	-	1013.44
-	-	-	-	-	-	-	-	9.004	1013.35	-	1013.39
-	-	-	-	-	-	-	-	8.982	1013.31	-	1013.35
8.433	54400	1011.98	8.41	1666.4	0.02	0.05	0.2	8.959	1013.27	1014.041	1013.31
-	-	-	-	-	-	-	-	8.932	1013.22	-	1013.26
-	-	-	-	-	-	-	-	8.904	1013.13	-	1013.17
-	-	-	-	-	-	-	-	8.878	1013.04	-	1013.08
8.325	54400	1010	7.04	1556.63	0.01	0	0.02	8.850	1012.88	1012.061	1012.93
8.198	54400	1008.29	6.9	1493.3	0.03	-0.03	0.08	8.720	1010.97	1010.351	1011.03
8.105	54400	1007.4	6.49	1575.09	0.05	-0.05	0.15	8.620	1010.16	1009.461	1010.15
8.03	54400	1006.19	7.72	1436.45	0.15	-0.23	0.74	8.540	1009.48	1008.251	1009.48
8.01	54400	1006.33	6.17	1462.25	0.28	-1.1	1.1	8.530	1009.5	1008.391	1009.5
Bridge											
8	54400	1006.18	6.3	1461.69	0.14	-1.02	0.52	8.490	1009.15	1008.241	1009.15
7.99	54400	1006.18	5.68	1385.6	0	0	0.05	8.480	1008.85	1008.241	1008.85
7.96	54400	1005.97	5.84	1315.04	0	0	0	8.440	1008.53	1008.031	1008.53
7.87	54400	1005.28	6.6	1113.52	0	-0.01	0.02	8.350	1007.84	1007.341	1007.84
7.77	54400	1004.68	6.63	1031.78	0.01	0	0.01	8.260	1007.11	1006.741	1007.11
7.67	54400	1004.39	5.66	1010.05	0	0.01	-0.03	8.160	1006.21	1006.451	1006.21
7.58	54400	1003.55	7.3	965.56	0.01	0	0.01	8.070	1005.28	1005.611	1005.28
7.49	54400	1002.59	7.95	979.92	0.01	-0.01	0.01	7.980	1004.15	1004.651	1004.15
7.39	54400	1001.69	7.66	1002	0	-0.01	0.01	7.880	1003.07	1003.751	1003.07
7.29	54400	1000.48	8.36	1022.39	0.01	0	0	7.780	1002	1002.541	1002
7.2	54400	999.8	7	1063.27	0	0	0	7.690	1001.06	1001.861	1001.06
7.1	54400	998.35	8.7	1082.37	0	0.01	0	7.600	1000.11	1000.411	1000.11
7.08	54400	998.08	8.37	998.41	0	-0.01	0.02	7.570	999.52	1000.141	999.52
7.06	54400	997.96	7.67	1092.76	0.01	0	0.01	7.550	999.44	1000.021	999.44
7.02	54400	997.61	7.26	1115.41	0.01	-0.01	0.02	7.510	998.99	999.671	998.99
6.99	54400	996.59	9.71	1032.44	0	0	-0.01	7.480	998.43	998.651	998.43
6.97	54400	996.63	7.85	1143	0.01	0	-0.01	7.460	998.33	998.691	998.33
6.93	54400	996.11	7.87	1131.93	0	-0.01	0.02	7.420	997.74	998.171	997.74
6.91	54400	994.81	10.8	1018.43	0.01	0	0	7.400	996.91	996.871	996.91
6.89	54400	994.18	10.73	1110.4	0	0	0.01	7.380	996.7	996.241	996.7
6.82	54400	993.73	7.39	1106.1	0	0	-0.01	7.310	996.35	995.791	996.35
6.79	54400	992.93	9.24	1001.19	0	-0.01	0.04	7.290	995.9	994.991	995.9
6.77	54400	991.88	10.86	1102.91	0	0	0	7.270	995.84	993.941	995.84
6.73	54400	992.3	6.11	1112.35	0	-0.01	0	7.230	995.45	994.361	995.45
6.71	54400	992.11	6.47	1013.34	0.01	-0.01	0.02	7.210	995.04	994.171	995.04
6.69	54400	991.98	6.45	1112.59	0	0	0.01	7.180	994.97	994.041	994.97
6.66	54400	991.6	7.32	1112.3	0.01	-0.01	0.01	7.160	994.71	993.661	994.71
6.64	54400	991.5	6.65	1112.14	0.01	0	0.01	7.130	994.56	993.561	994.56

Agua Fria River Re-Delineation Study

FCD # 2007C053 Assignment #3

Floodplain Summary for Effective HEC-2, Duplicate Effective and Proposed HEC-RAS Models

Effective Cross		HEC-2 Effective Model Results			HEC-RAS - HEC-2 Differences			Proposed HEC-RAS Model			
Cross Section	Q Total cfs	WSEL	Vel Chnl fps	Top Width ft	WSEL Diff ft	Vel Diff fps	Top Width Diff ft	Revised HEC-RAS Cross-Section ID's	Revised Floodplain WSEL	Effective WSEL + 2.061'	Revised Floodway WSEL
6.59	54400	991.11	6.25	1112.03	0	0	0	7.080	993.92	993.171	993.92
6.56	54400	990.79	6.88	1107.89	0	0	0	7.050	993.68	992.851	993.68
6.54	54400	990.27	8.2	1001	0.01	0	0.01	7.030	993.19	992.331	993.19
6.52	54400	990.38	6.65	1095.24	0	0	0	7.020	993.16	992.441	993.16
6.43	54400	989	8.79	1066.53	0	0	0	6.930	992.43	991.061	992.43
6.35	54400	988.1	7.71	1094.92	0	0	0	6.850	991.66	990.161	991.66
6.26	54400	986.93	7.99	1115.7	0	0	0.01	6.750	990.46	988.991	990.46
6.16	54400	986.11	7.13	1114.84	0	0.01	-0.03	6.660	988.81	988.171	988.81
6.07	54400	985.38	6.93	1112.14	0	-0.01	0.01	6.570	987.84	987.441	987.84
5.99	54400	984.73	7.06	1109.63	0	0.01	-0.01	6.490	987.25	986.791	987.25
5.9	54400	983.96	7.06	1112.51	-0.01	0.01	-0.02	6.390	986.43	986.021	986.43
5.81	54400	983.29	6.74	1110.69	-0.01	0.02	-0.04	6.300	985.69	985.351	985.69
5.79	54400	982.64	8.27	1015.97	-0.02	0.04	-0.13	6.270	985.26	984.701	985.26
5.77	54400	982.62	6.73	1123.63	-0.02	0.02	-0.06	6.240	985.15	984.681	985.15
5.75	54400	982.44	6.71	1119.25	-0.03	0.02	-0.12	6.220	984.92	984.501	984.92
5.7	54400	982.14	6.12	1152.7	0.1	-0.42	0.3	6.160	984.47	984.201	984.47
Bridge											
5.689	54400	982.07	6.17	1152.46	0.06	-0.4	0.18	6.150	984.26	984.131	984.26
5.65	54400	981.63	6.9	1126.8	0.03	-0.02	0.13	6.110	983.68	983.691	983.68
5.54	54400	980.21	8.09	1209.04	-0.01	0.08	-10.02	6.000	982.4	982.271	982.4
5.51	54400	979.67	8.59	1138.12	-0.02	0.04	-5.05	5.970	981.94	981.731	981.94
5.48	54400	979.55	7.17	1256.16	-0.02	0.06	-10.04	5.940	981.73	981.611	981.73
5.38	54400	978.16	7.86	1292.39	-0.12	0.18	-0.29	5.840	980.28	980.221	980.28
5.328	54400	977.53	7.24	1387.41	0.13	-0.62	0.45	5.780	979.69	979.591	979.69
Bridge											
5.317	54400	977.28	7.55	1386.6	0.08	-0.57	0.25	5.740	978.97	979.341	978.97
5.305	52000	977.18	7.11	1386.66	0.13	-0.62	0.46	deleted	-	-	-
5.29	52000	976.95	7.4	1385.94	0.04	-0.52	0.11	deleted	-	-	-
5.27	52000	976.03	9.07	1266.62	0.01	-0.04	0.11	5.720	978.29	978.091	978.29
5.25	52000	975.63	8.43	1377.96	0	0.01	-0.01	5.690	977.87	977.691	977.87
5.203	52000	973.52	10.66	1389.49	-0.01	0.02	-0.01	deleted	-	-	-
5.201	52000	973.91	7.78	1392.04	0	0.01	-0.01	5.650	975.53	975.971	975.53
5.15	52000	972.48	9.1	1388.65	0	0.01	0	5.600	975.14	974.541	975.14
5.1	52000	971.78	7.55	1344.91	0	0	-0.01	5.540	974.76	973.841	974.76
5.02	52000	971.1	6.59	1281.89	0	0.02	-0.03	5.470	974.24	973.161	974.24
5	52000	970.98	6.46	1169.86	-0.01	0	-0.03	5.450	974.02	973.041	974.02
4.98	52000	970.88	6.34	1250.71	-0.01	0.01	-0.02	5.430	973.95	972.941	973.95
4.89	52000	969.89	7.15	1169.84	-0.01	0.02	-0.03	5.330	973.15	971.951	973.15
4.79	52000	968.75	7.78	1115.25	-0.04	0.04	-0.11	5.240	972.07	970.811	972.07
4.759	52000	968.69	6.14	1124.12	0.12	-0.67	0.21	5.210	971.78	970.751	971.78
Bridge											
4.754	52000	968.58	6.23	1123.93	0.08	-0.66	0.14	5.190	971.31	970.641	971.31
4.7	52000	968.36	6.06	1107.42	0.01	0	0	5.150	970.88	970.421	970.88
4.6	52000	967.95	5.77	1111.27	0	0.01	-0.01	5.050	970.16	970.011	970.16
4.52	52000	967.57	5.86	1106.92	0	0	0	4.970	969.44	969.631	969.44
4.5	52000	967.38	6.21	1010.03	0.01	0	0.01	4.950	969.13	969.441	969.13
4.48	52000	967.33	5.85	1118.08	0	0	-0.02	4.930	969.1	969.391	969.1
4.39	52000	966.77	6.2	1119.1	0.01	0	0	4.840	968.51	968.831	968.51
4.3	52000	966.19	6.4	1113.12	0	0	0	4.740	967.83	968.251	967.83
4.27	52000	965.88	7.11	1016.78	0	-0.01	0.02	4.720	967.41	967.941	967.41
4.26	52000	965.75	6.91	1113.03	0.01	-0.01	0	4.700	967.39	967.811	967.39
4.16	52000	965.04	6.78	1120.2	0	0	0	4.610	966.5	967.101	966.5
4.094	52000	962.61	11.52	1105.6	0	0	0	deleted	-	-	-
4.092	52000	962.78	6.22	1111.99	0.02	-0.01	0.05	4.550	964.16	964.841	964.16
4.06	52000	962.61	6.18	1112.42	0.02	-0.01	0.05	4.510	964.63	964.671	964.63
4.04	52000	962.33	6.81	1013.61	0.02	-0.02	0.1	4.490	964.14	964.391	964.14
4.02	52000	962.36	5.8	1112.03	0.02	-0.01	0.06	4.470	964.08	964.421	964.08
3.93	52000	961.84	6.11	1112.22	0.02	-0.02	0.06	4.380	963.18	963.901	963.18
3.83	52000	961.41	5.77	1135.18	0.03	-0.02	0.06	4.280	962.29	963.471	962.29
3.81	52000	961.1	6.72	1025.13	0.04	-0.03	0.21	4.260	961.83	963.161	961.83
3.8	52000	961.12	5.96	1123.21	0.03	-0.02	0.15	4.250	961.79	963.181	961.79
3.78	52000	961.01	5.94	1109.91	0.03	-0.03	0.1	deleted	-	-	-
3.77	50900	960.72	6.99	1053.87	0.25	-0.92	1.02	4.220	961.49	962.781	961.49
Bridge											
3.767	50900	960.65	7.05	1053.57	0.09	-0.8	0.38	deleted	-	-	-
3.757	50900	960.73	5.44	1110.62	0.03	-0.02	0.09	4.210	960.93	962.791	960.93
3.747	50900	960.62	5.67	1185.13	0.12	-0.55	0.23	deleted	-	-	-
Bridge											
3.734	50900	960.5	5.76	1184.9	0.04	-0.51	0.08	deleted	-	-	-
3.729	50900	960.52	5.24	1173.95	0	0	0	4.180	960.05	962.581	960.05
3.69	50900	958.97	9.46	1028.78	0	-0.01	0.21	4.130	959.22	961.031	959.22
3.64	50900	957.84	9.46	818.99	0.02	-0.02	0.08	4.090	958.42	959.901	958.42
3.55	50900	956.41	8.3	1555.33	0.01	0.03	0.81	4.000	957	958.471	957

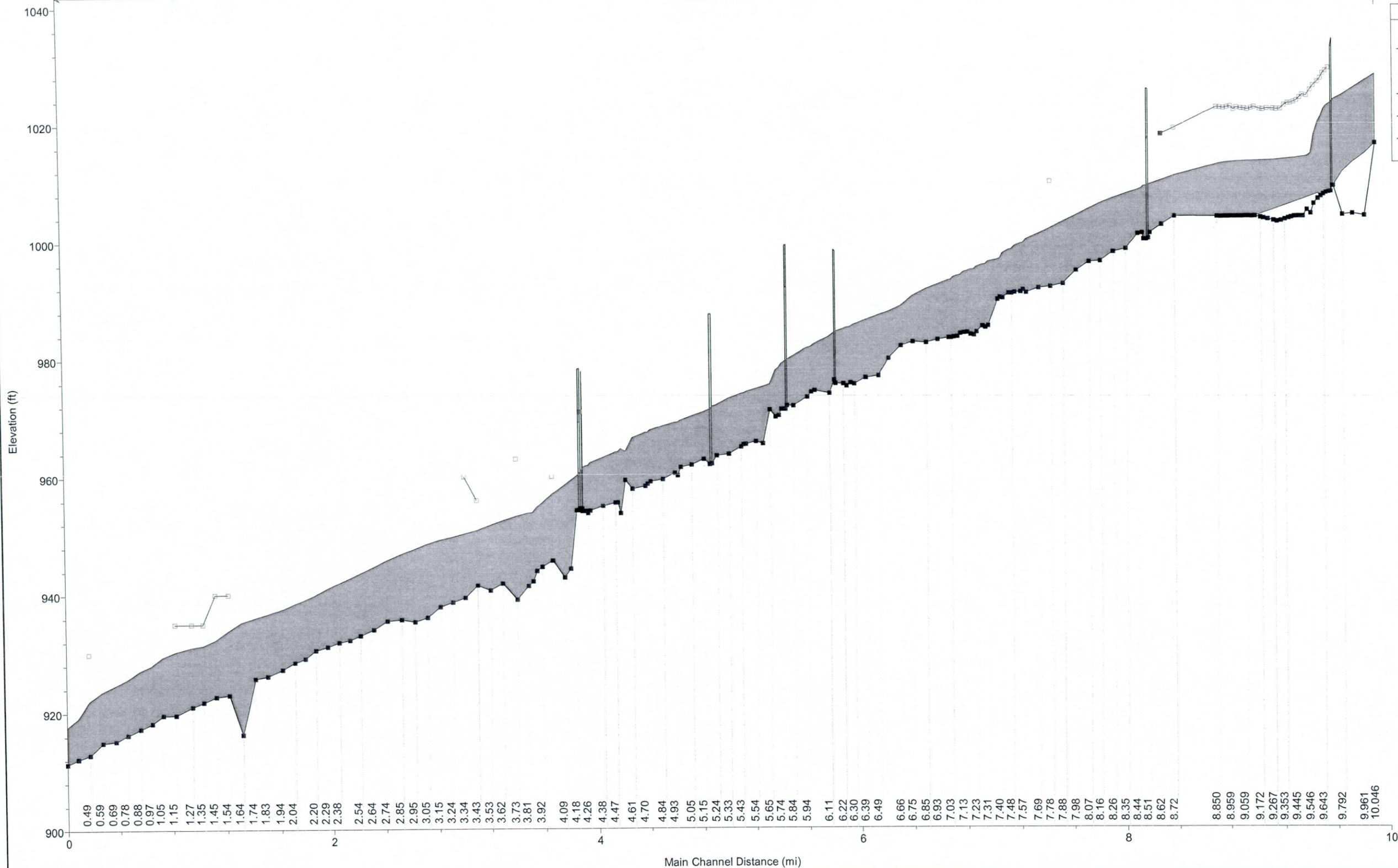
Agua Fria River Re-Delineation Study

FCD # 2007C053 Assignment #3

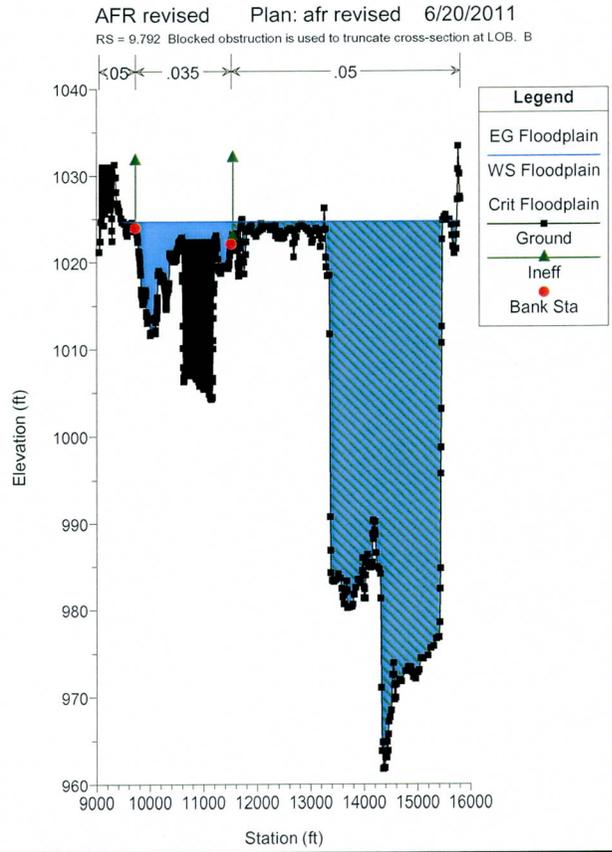
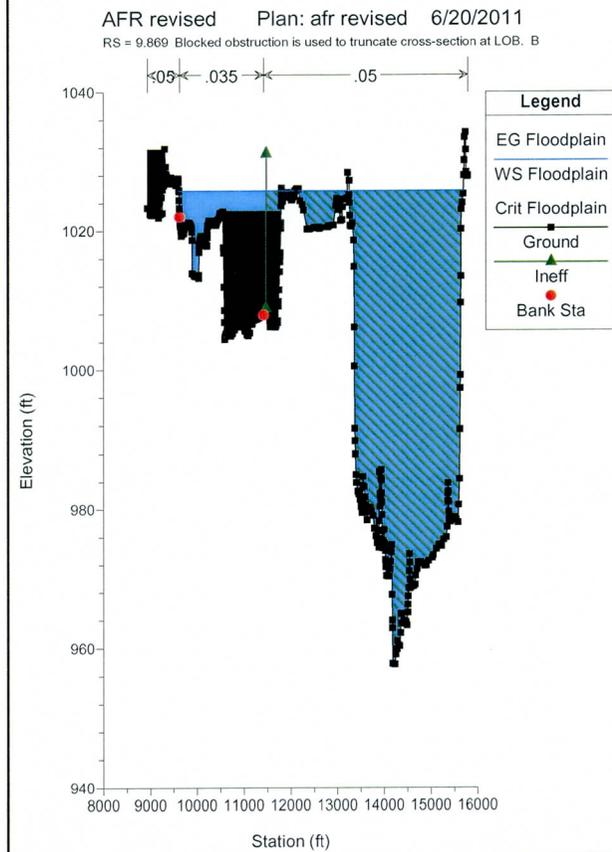
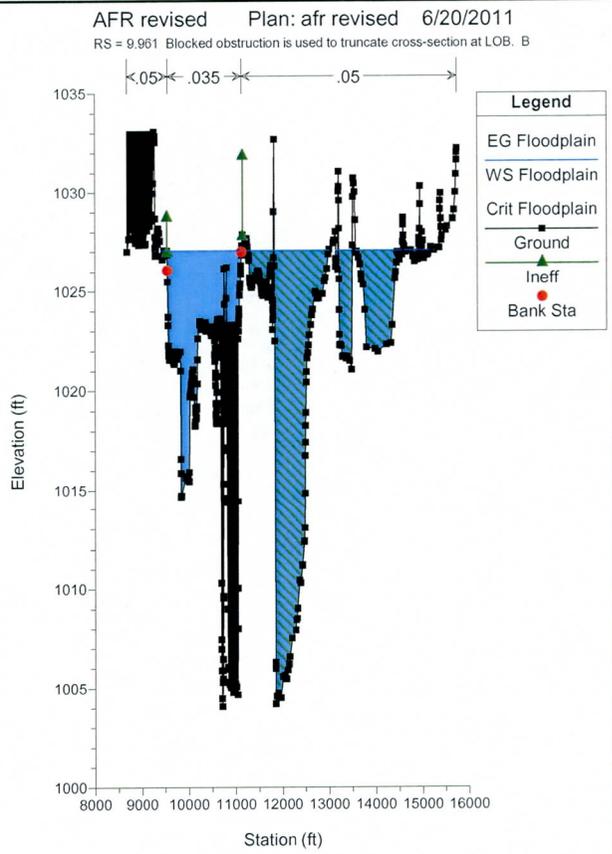
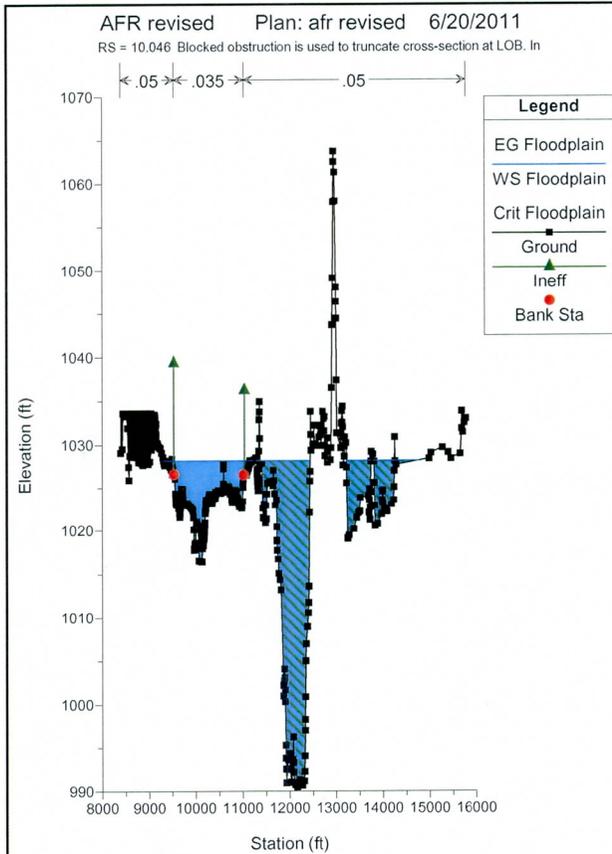
Floodplain Summary for Effective HEC-2, Duplicate Effective and Proposed HEC-RAS Models

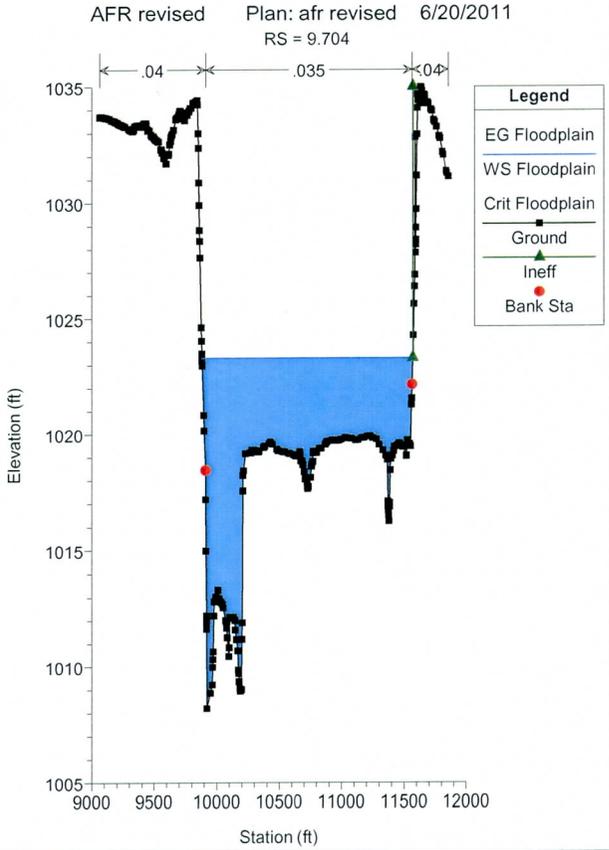
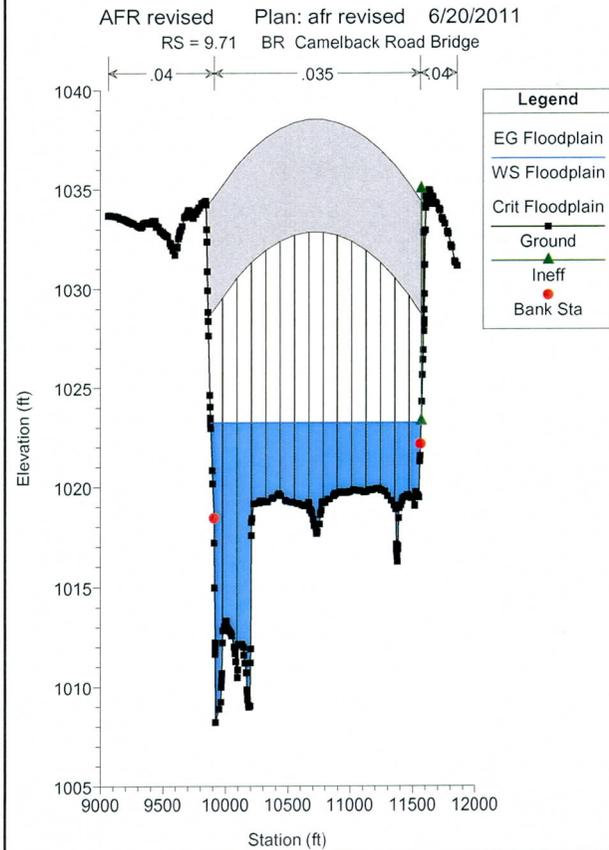
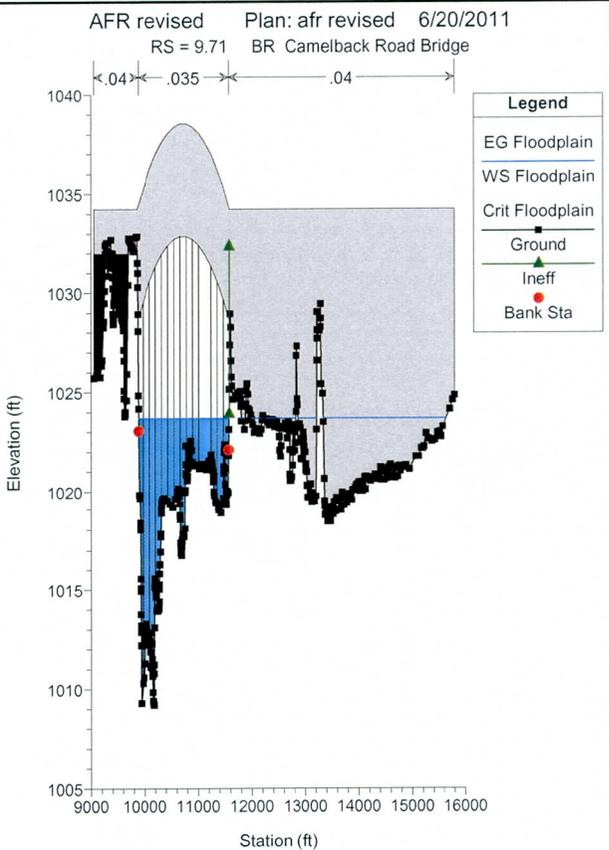
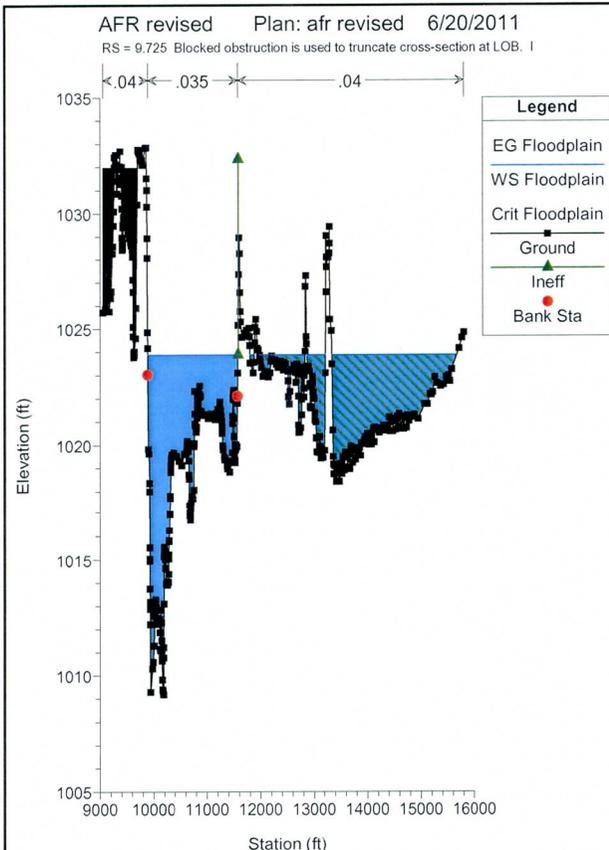
Effective Cross		HEC-2 Effective Model Results			HEC-RAS - HEC-2 Differences			Proposed HEC-RAS Model			
Cross Section	Q Total cfs	WSEL	Vel Chnl fps	Top Width ft	WSEL Diff ft	Vel Diff fps	Top Width Diff ft	Revised HEC- RAS Cross- Section ID's	Revised Floodplain WSEL	Effective WSEL + 2.061'	Revised Floodway WSEL
3.43	50900	954.78	7.67	1191.45	0.01	-0.01	0.13	3.880	954.67	956.841	954.69
3.4	50900	952.8	11.19	1290.49	-0.02	0.07	-5.27	3.850	953.83	954.861	953.88
3.37	50900	952.88	6.2	1698.69	0	0	0.8	3.810	953.76	954.941	953.81
3.27	50900	951.95	6.06	1601.76	0.01	-0.01	1.03	3.730	953.24	954.011	953.31
3.18	50900	951.18	5.33	1897.77	0.01	-0.01	7.25	3.620	952.43	953.241	952.55
3.08	50900	950.69	4.4	2309.63	0.01	-0.02	6.31	3.530	951.68	952.751	951.86
2.99	50900	950.15	4.53	2437.41	0.01	0.04	3.54	3.430	950.84	952.211	951.12
2.89	50900	949.51	4.49	2187.95	0.01	0.01	0.04	3.340	950.3	951.571	950.6
2.8	50900	948.88	4.55	2250.71	0	0.01	0.18	3.240	949.72	950.941	950.12
2.7	50900	948.18	4.78	2678.92	0	-0.01	0.15	3.150	949.24	950.241	949.73
2.6	50900	947.12	5.8	2550.49	0.02	-0.01	0.72	3.050	948.56	949.181	949.15
2.51	50900	946.07	6.07	2202.47	0.02	0	0.32	2.950	947.68	948.131	948.4
2.41	50900	944.94	6.9	2513.02	0.03	-0.04	1.38	2.850	946.84	947.001	947.6
2.33	50900	943.98	6.46	2601.73	0.03	0.04	1.62	2.740	945.8	946.041	946.44
2.25	50900	942.68	7.75	2702.61	0.02	0.04	0.19	2.640	944.62	944.741	945.23
2.18	50900	941.75	6.41	3048.62	0.03	-0.02	0.57	2.540	943.54	943.811	944.15
2.1	50900	940.84	6.51	3200.74	0	0.09	0.02	2.460	942.69	942.901	943.25
2.02	50900	940.05	5.64	3496.83	-0.02	0.07	-0.74	2.380	941.88	942.111	942.33
1.94	50900	939.25	5.56	3759.83	-0.17	0.36	-1.94	2.290	940.93	941.311	941.33
1.87	50900	938.21	6.28	3779.28	0.06	-0.79	244.76	2.200	939.86	940.271	940.31
1.79	50900	937.57	5.5	4010.49	0.05	-0.03	3.31	2.120	939.06	939.631	939.65
1.71	50900	937.17	4.68	4024.6	0.04	0.03	2.29	2.040	938.35	939.231	938.74
1.64	50900	936.82	4.53	3658.96	0.06	-0.04	12.51	1.940	937.47	938.881	937.86
1.56	50900	936.55	4.68	3645.6	0.06	-0.01	1.76	1.830	936.67	938.611	937.08
1.48	50900	935.99	5.88	3962.32	0.08	-0.07	14.84	1.740	936.04	938.051	936.39
1.4	50900	934.16	9.53	3913.3	0.06	0.12	36.85	1.640	935.33	936.221	935.82
1.33	50900	932.95	7.28	4579.95	0.14	-0.14	230.18	1.540	933.9	935.011	934.14
1.25	50900	931.02	8.96	3678.81	0.04	0.31	3.17	1.450	932.34	933.081	932.94
1.17	50900	929.8	6.8	4764.36	0.06	0.01	212.54	1.350	931.38	931.861	932.21
1.1	50900	928.81	5.38	4213.9	0.06	0.02	26.58	1.270	931.06	930.871	931.89
1.01	50900	927.79	6.41	3917.41	0.08	0	29.29	1.150	930.32	929.851	931.27
0.92	50900	926.85	6.37	8129.2	0.11	-0.01	58.85	1.050	929.42	928.911	930.21
0.83	50900	925.91	7.29	9559.34	0.14	-0.03	76.34	0.970	927.97	927.971	928.47
0.73	50900	924.67	7.26	8818.85	0.12	0.26	71.9	0.880	927.08	926.731	927.73
0.63	50900	923.29	7.69	8199.52	0.1	0.01	226.25	0.780	925.6	925.351	926.29
0.54	50900	921.96	7.45	8732.6	0.12	-0.01	63.32	0.690	924.64	924.021	925.4
0.44	50900	920.88	5.53	8028.4	0.16	0	462.52	0.590	923.58	922.941	924.19
0.35	50900	919.61	7.97	8121.07	0.08	0.42	49.76	0.490	922.03	921.671	922.41
0.25	50900	918.11	8.37	5866.3	0.12	-0.14	345.15	0.400	919.01	920.171	919.04
0.16	50900	916.56	7.34	4294.83	0	0.45	1.72	0.320	917.54	918.621	917.55

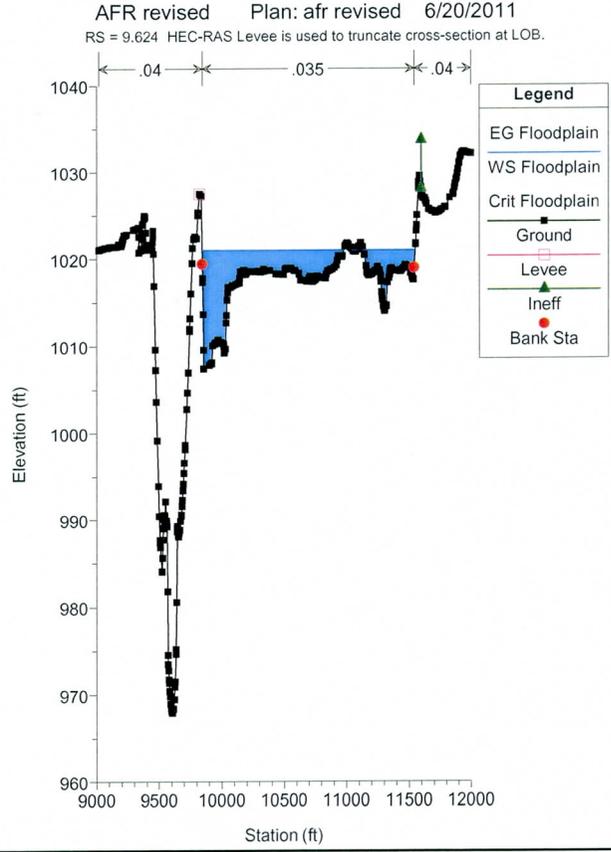
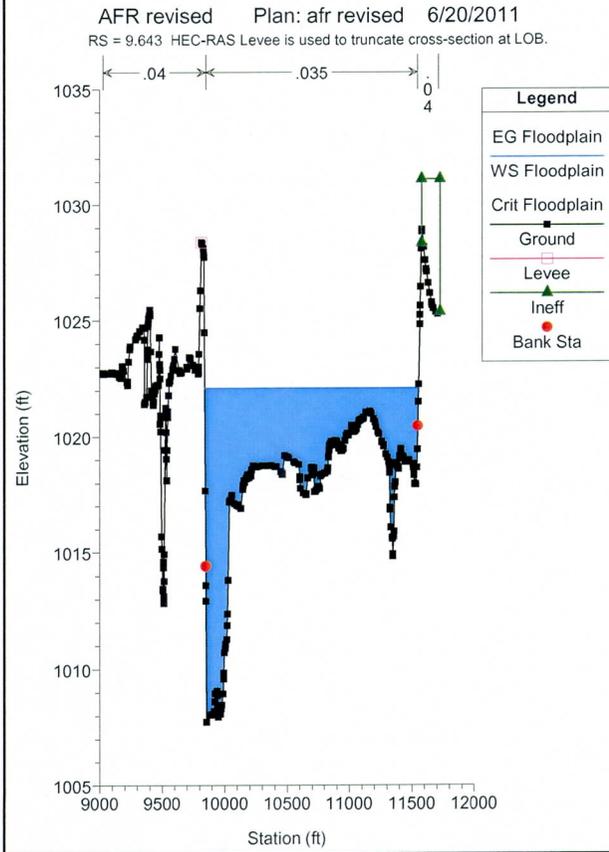
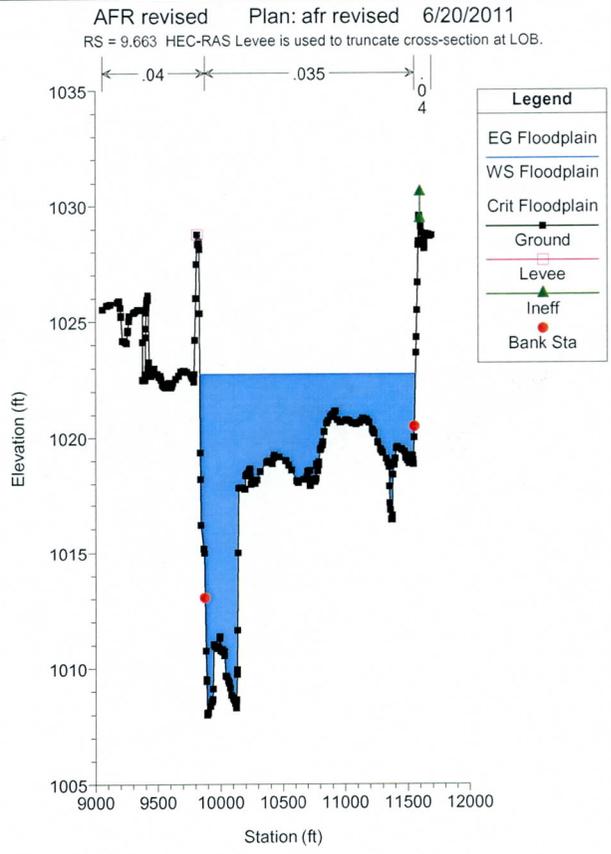
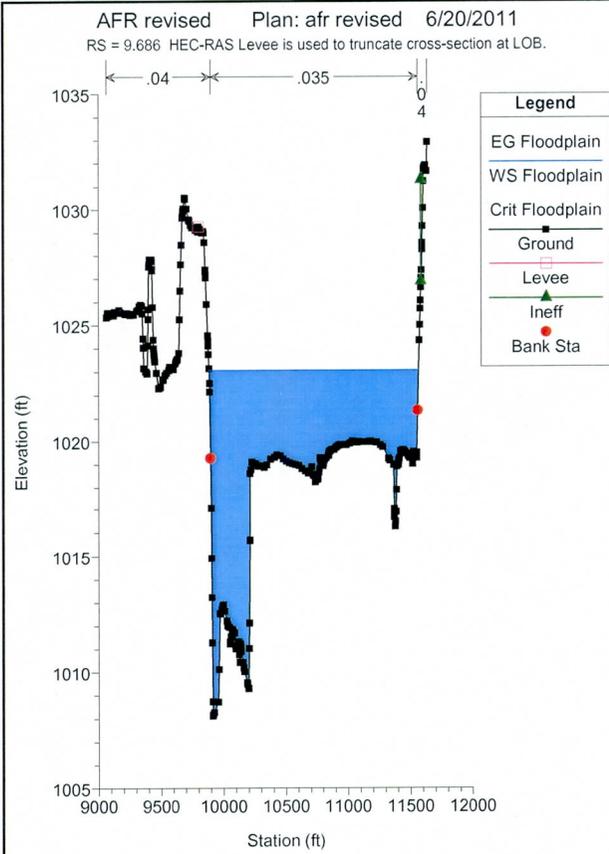
Stream Reach

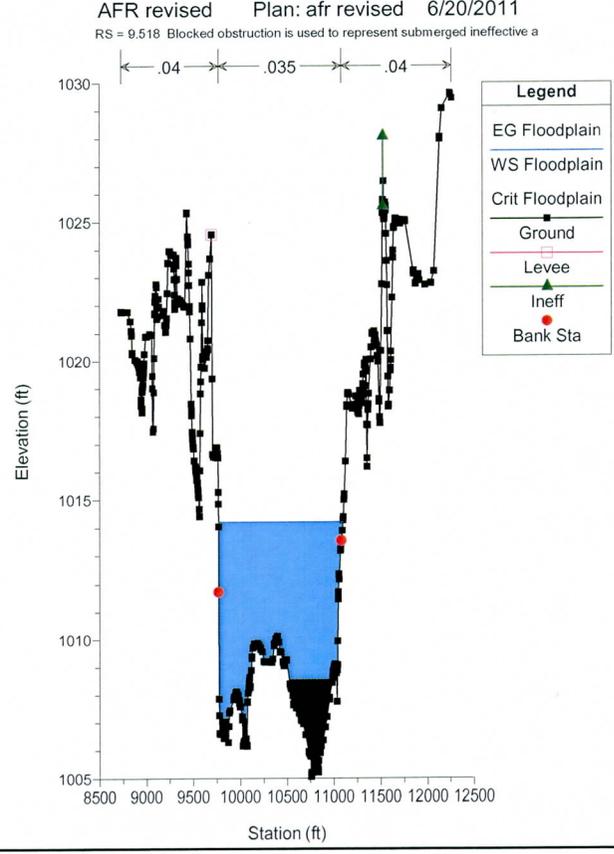
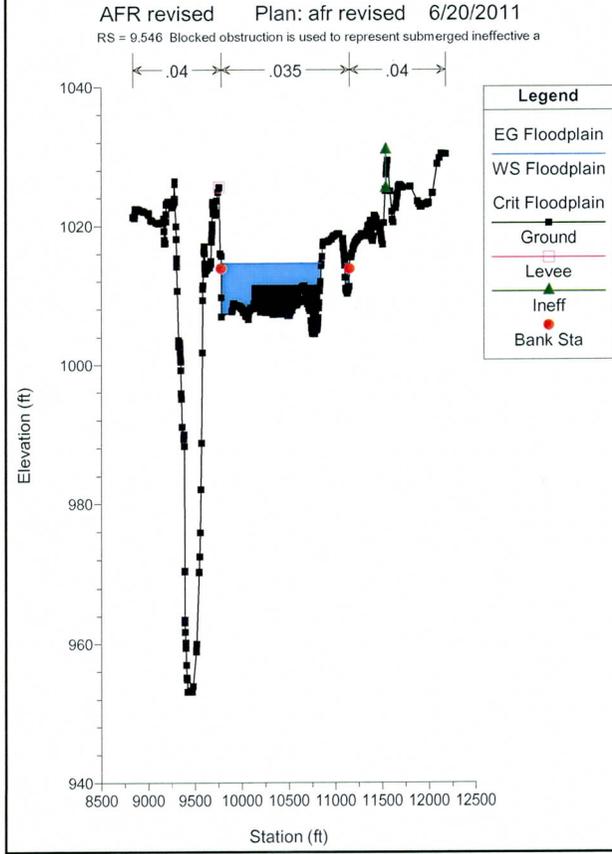
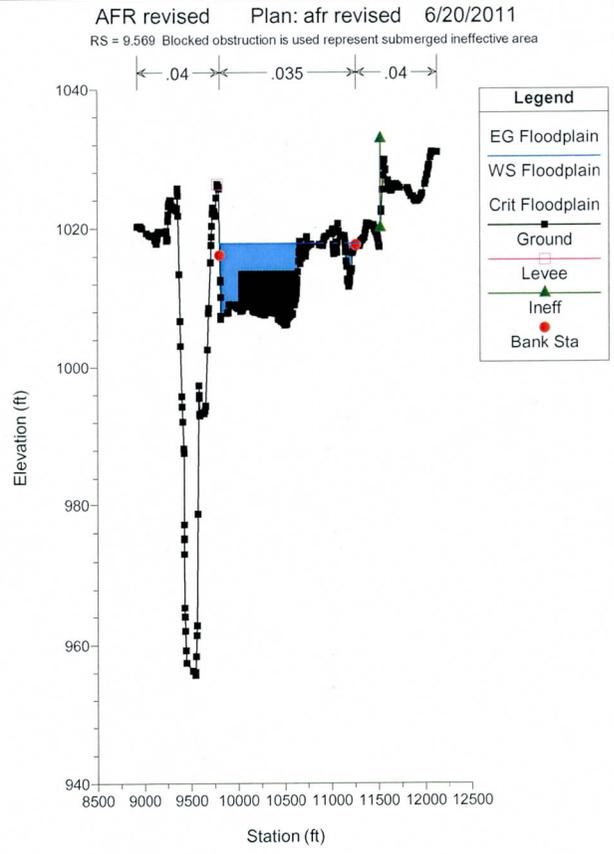
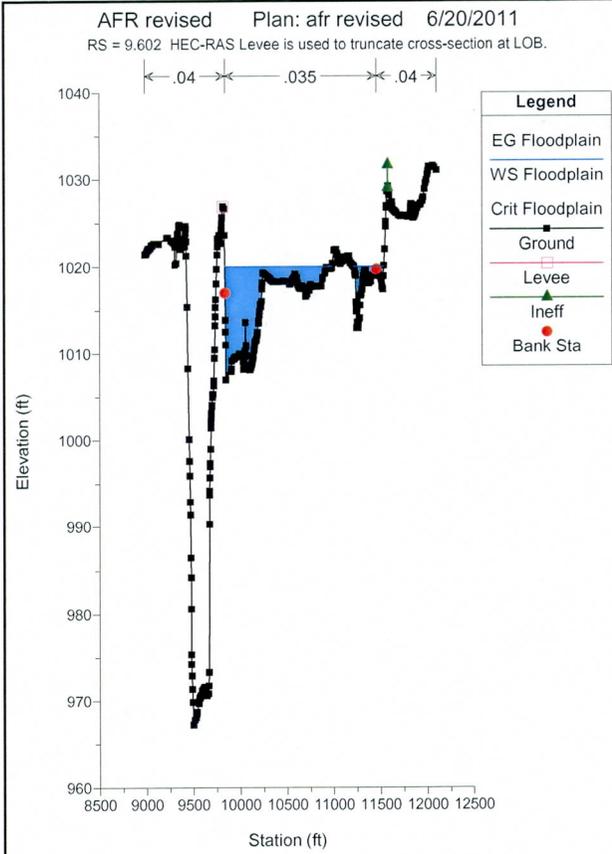


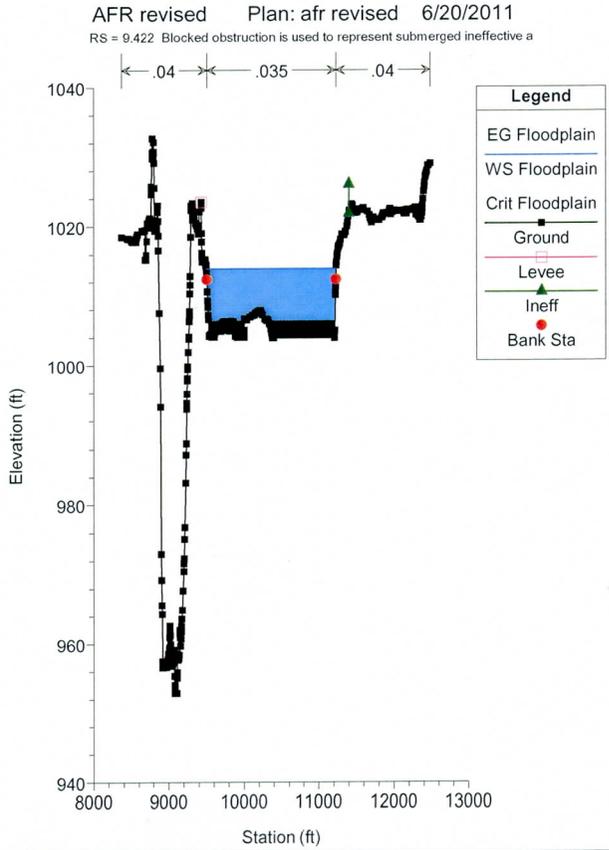
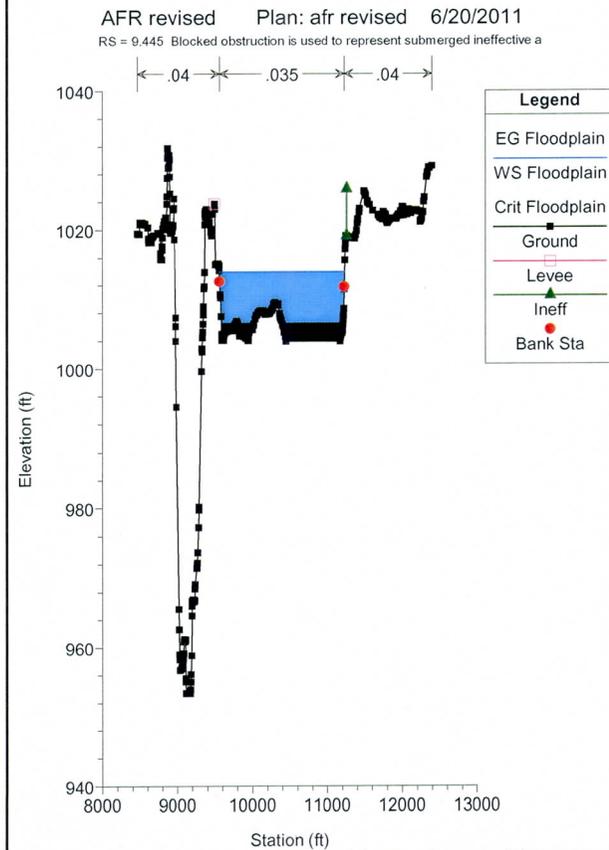
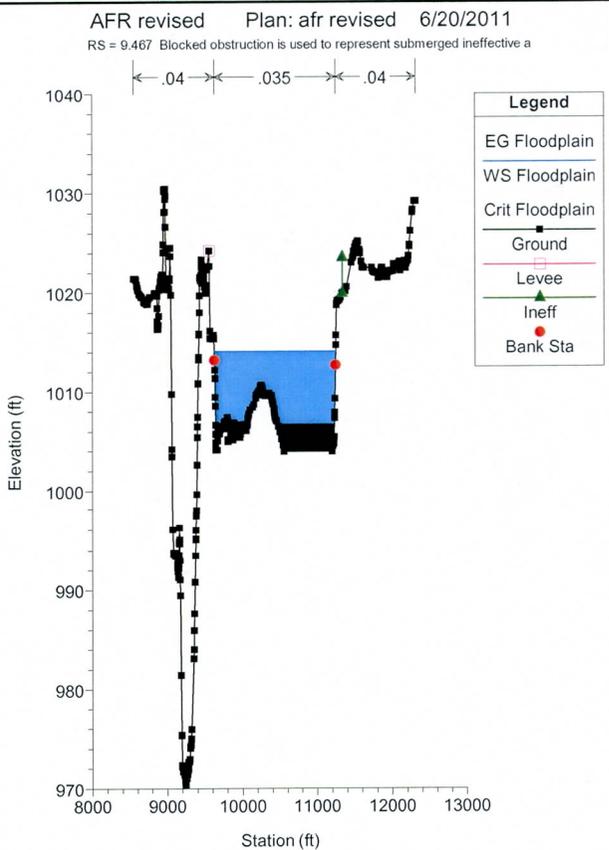
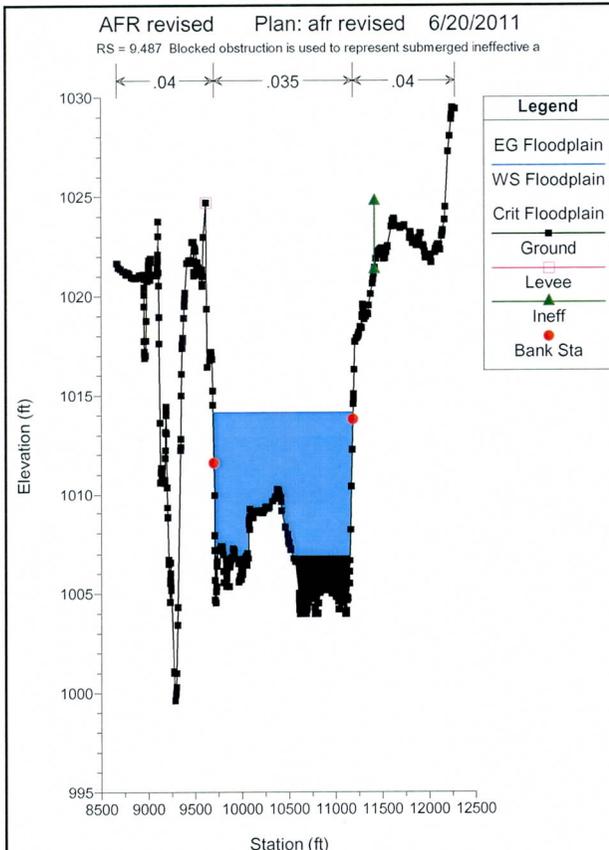
Legend	
EG Floodplain	
WS Floodplain	
Crit Floodplain	
Ground	■
Left Levee	□
Right Levee	■

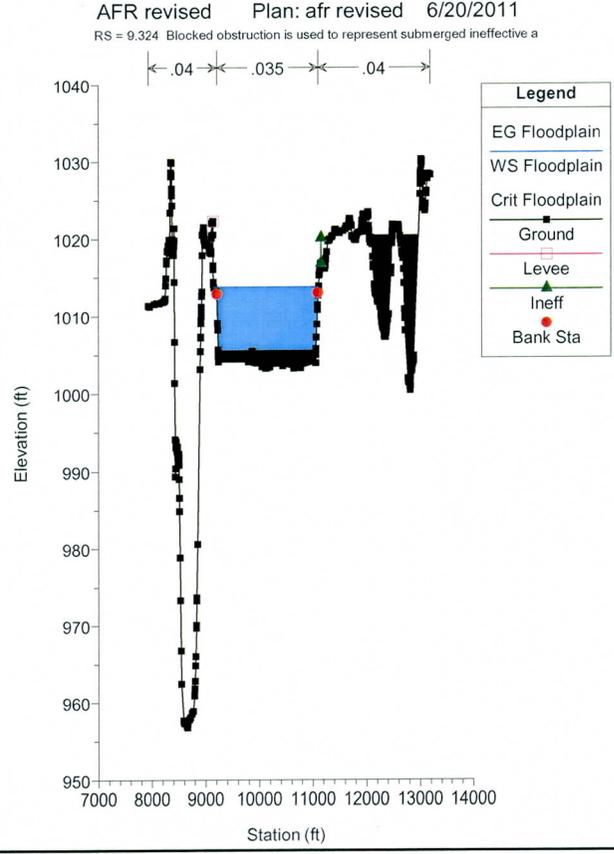
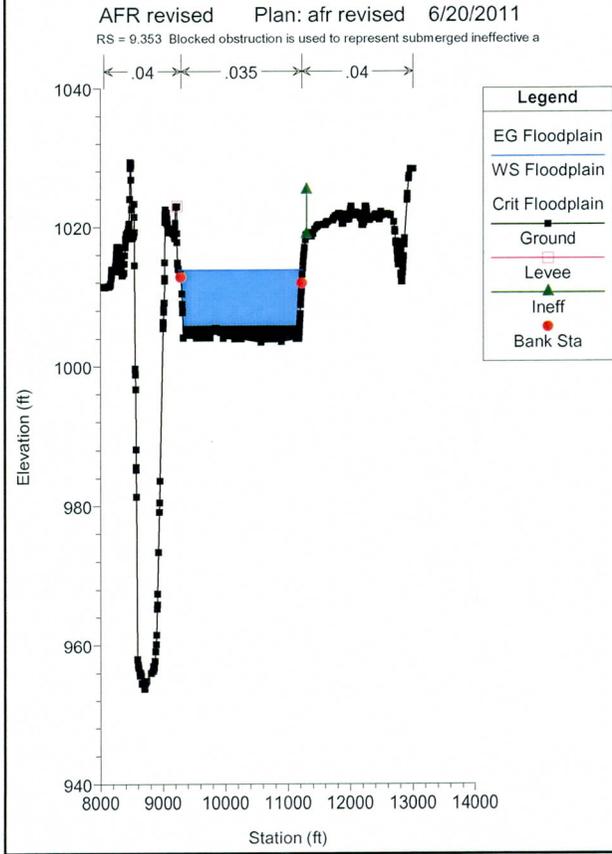
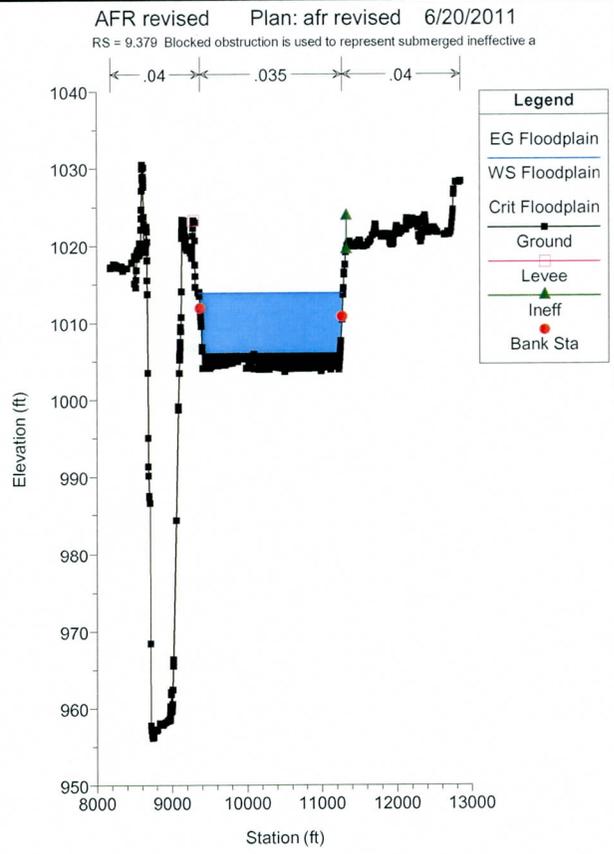
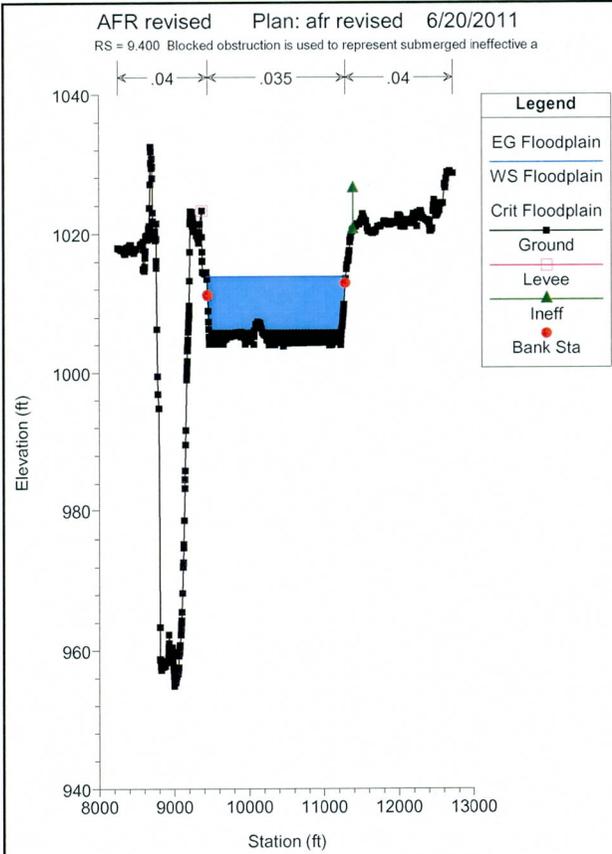




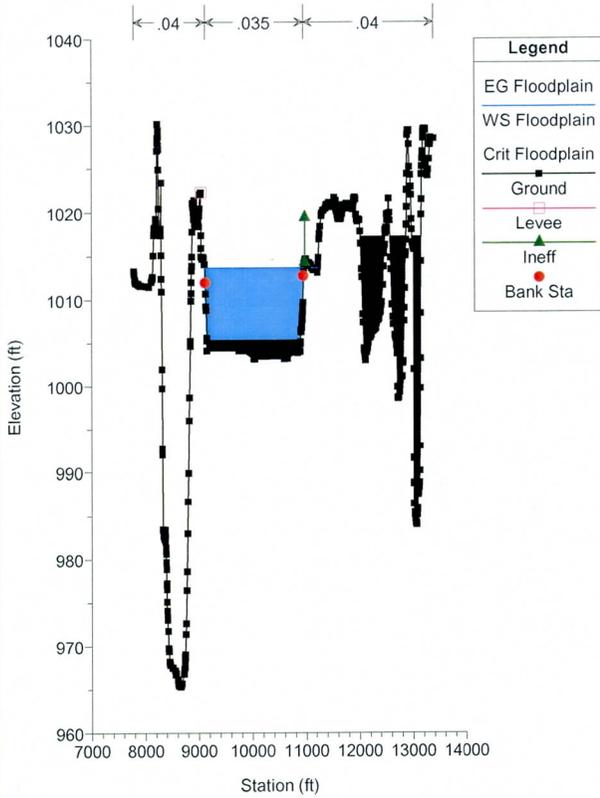




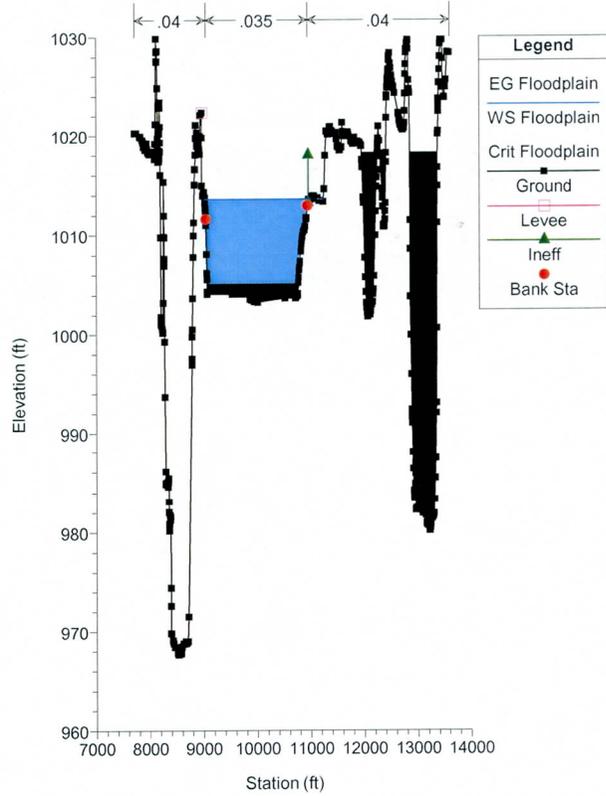




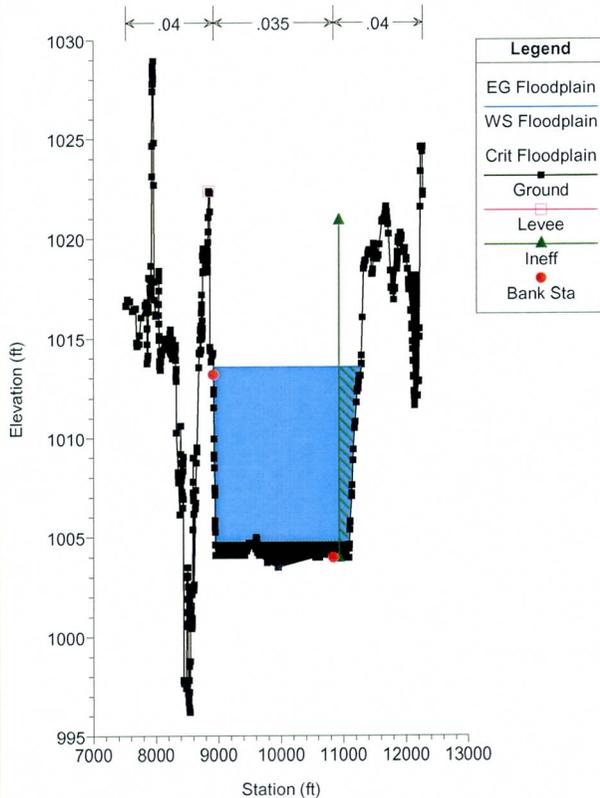
AFR revised Plan: afr revised 6/20/2011  
 RS = 9.292 Blocked obstruction is used to represent submerged ineffective a



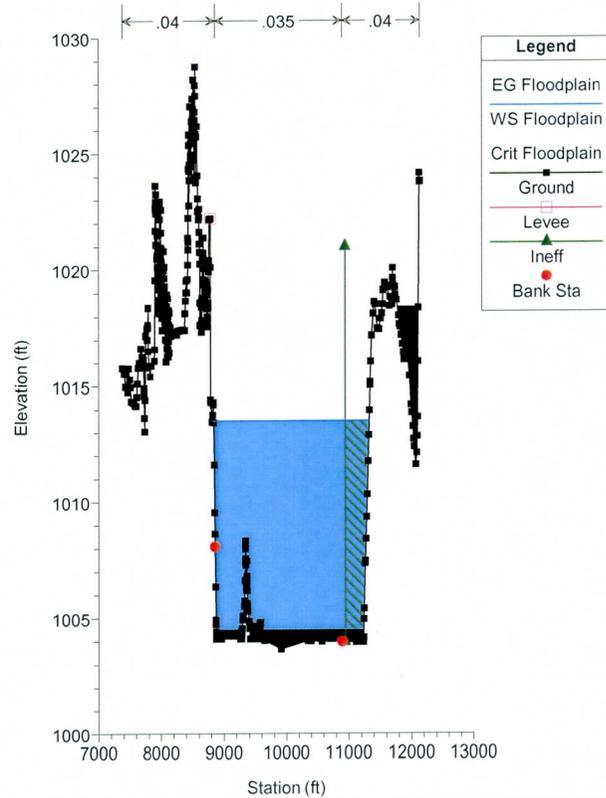
AFR revised Plan: afr revised 6/20/2011  
 RS = 9.267 Blocked obstruction is used to represent submerged ineffective a

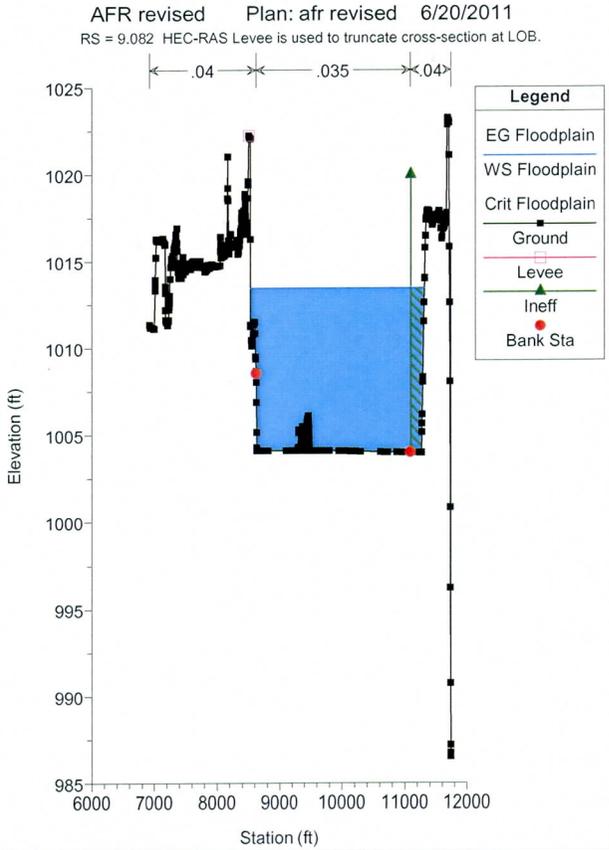
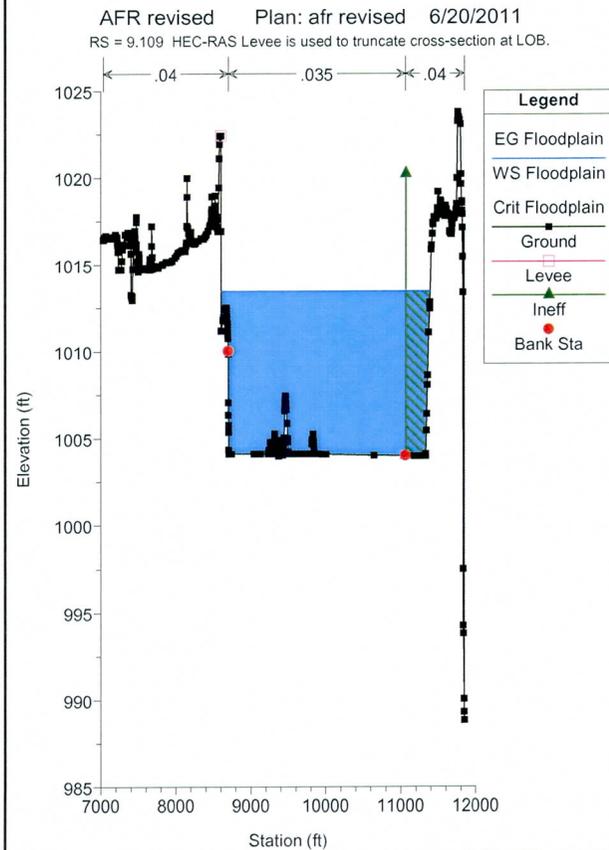
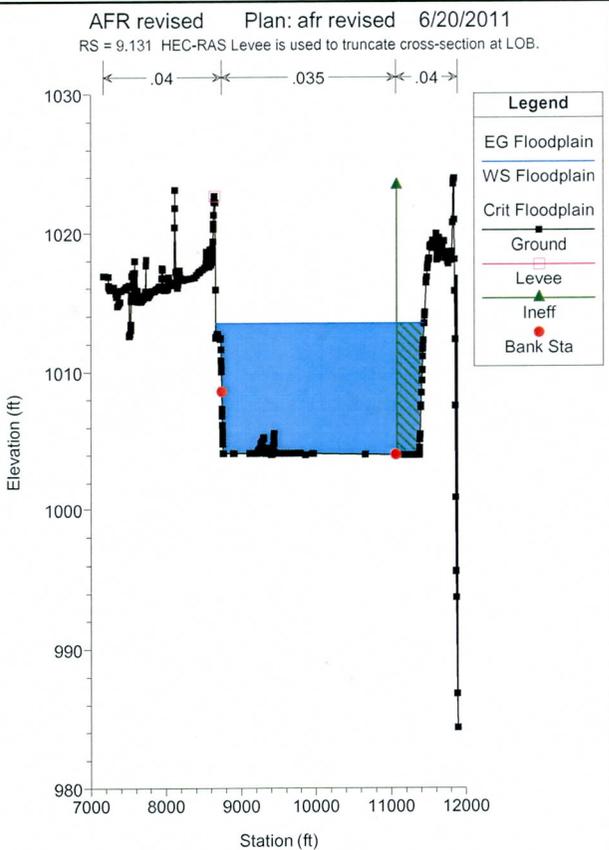
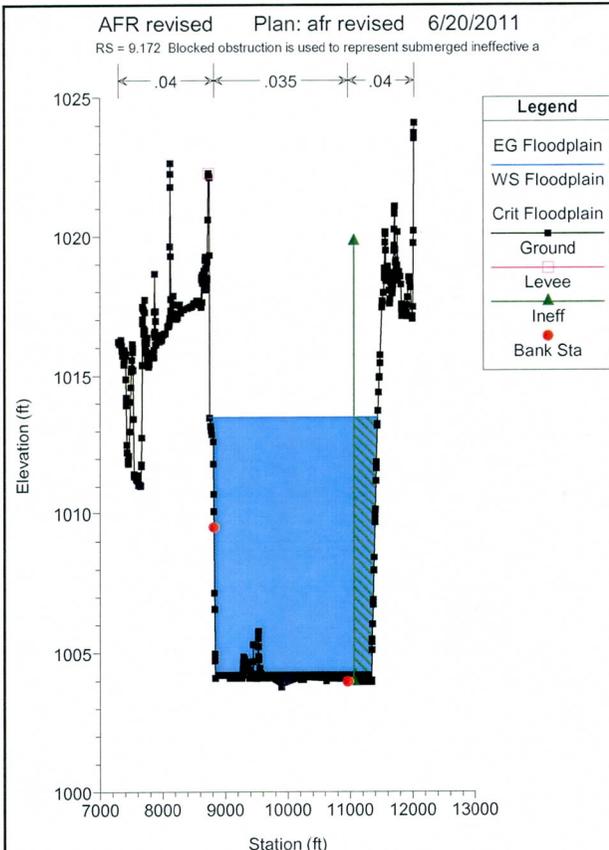


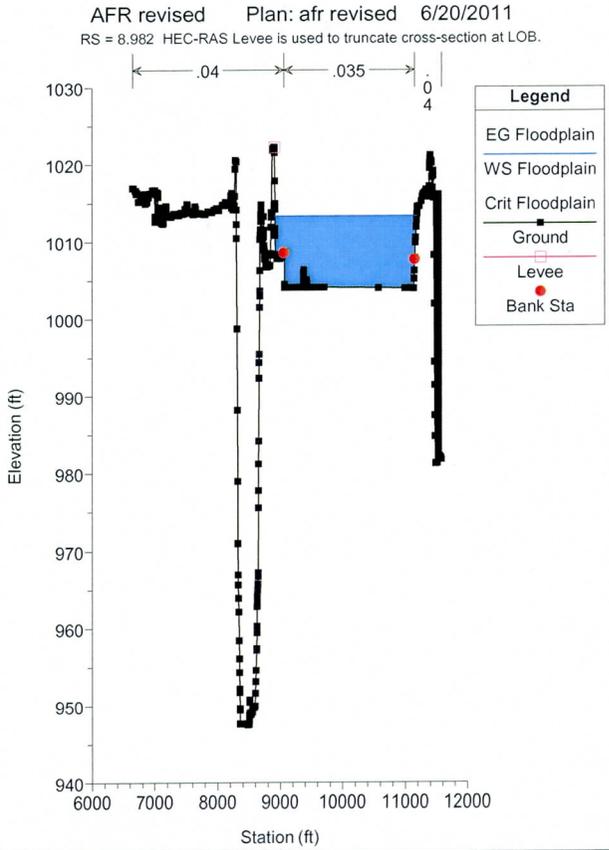
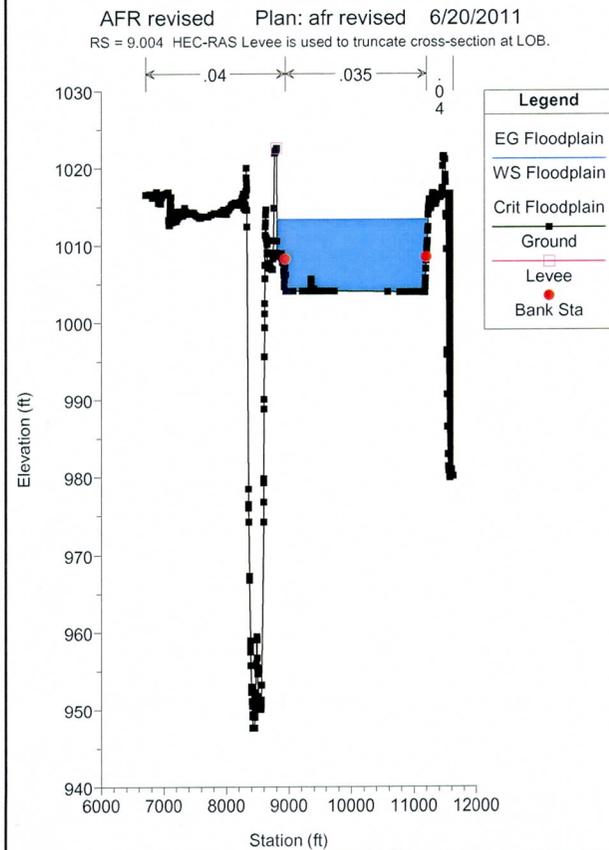
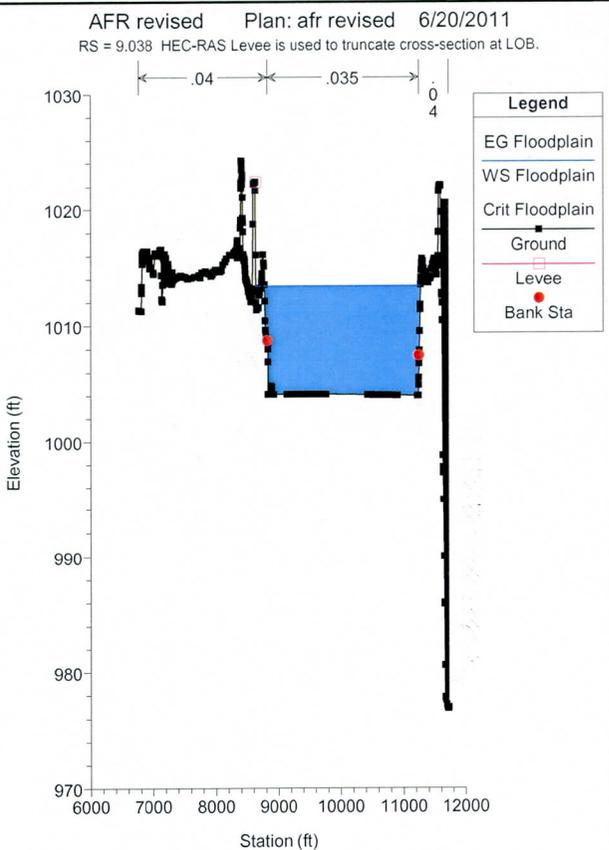
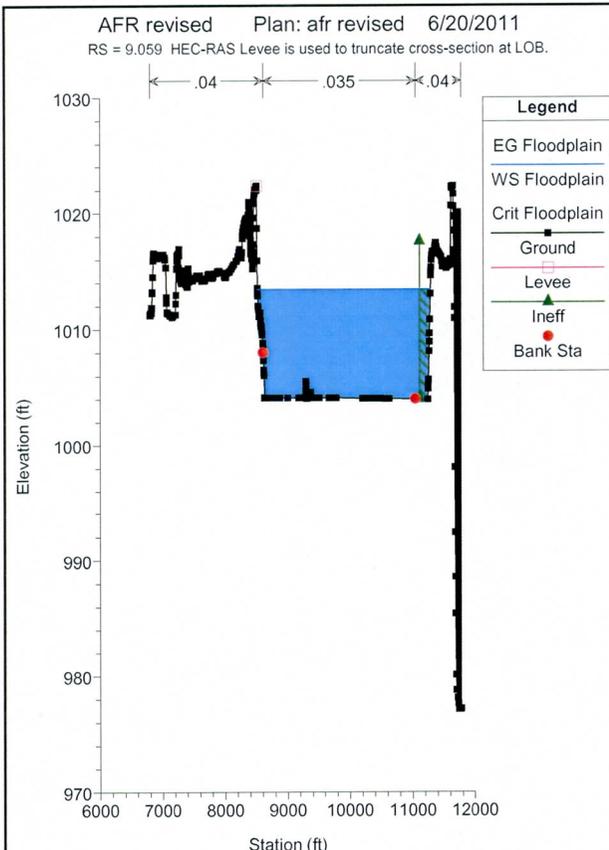
AFR revised Plan: afr revised 6/20/2011  
 RS = 9.225 Blocked obstruction is used to represent submerged ineffective a

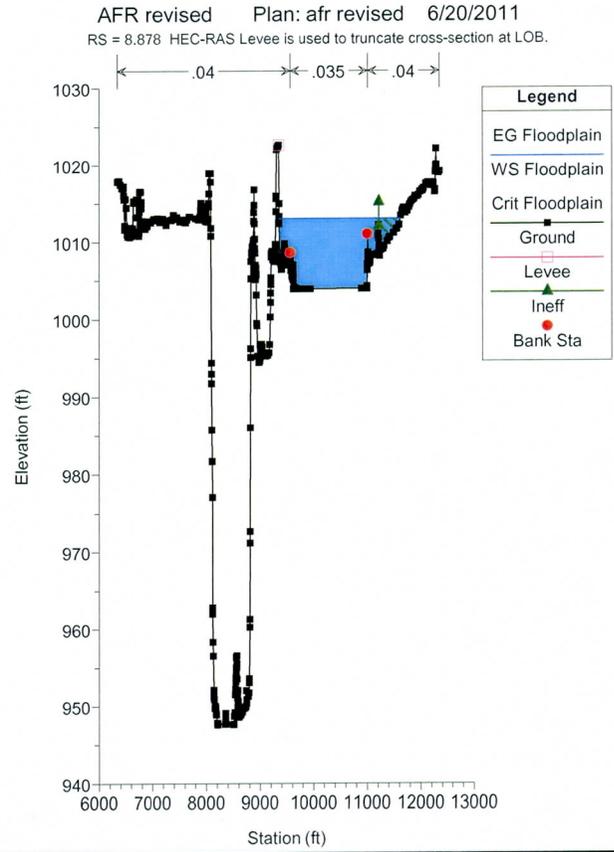
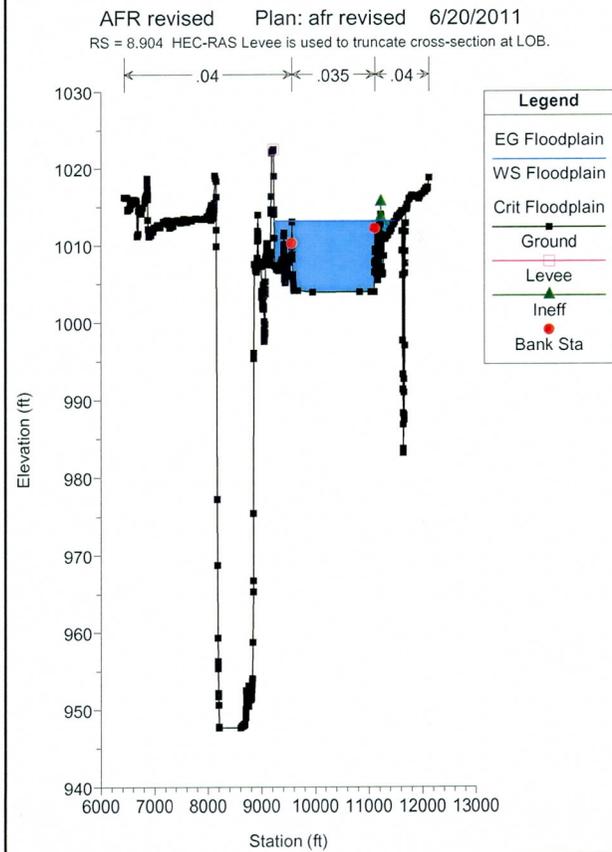
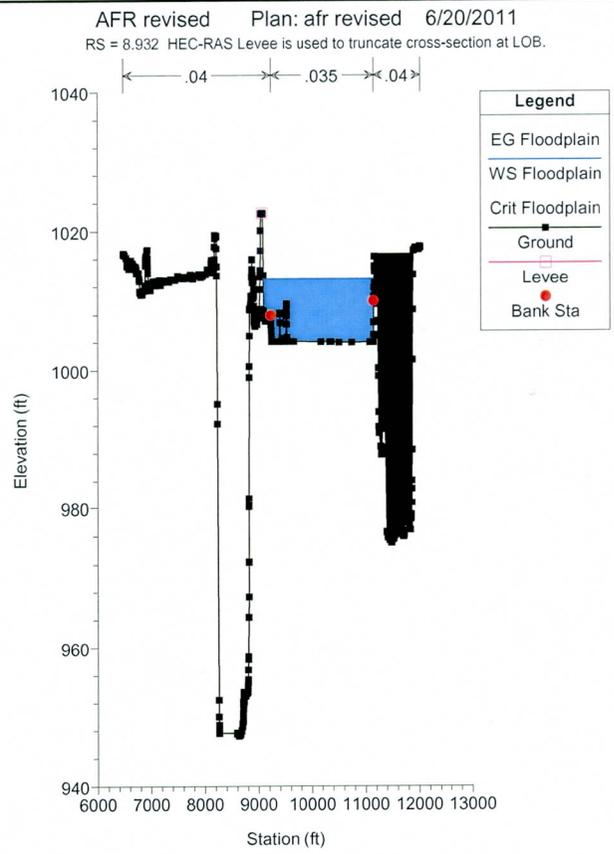
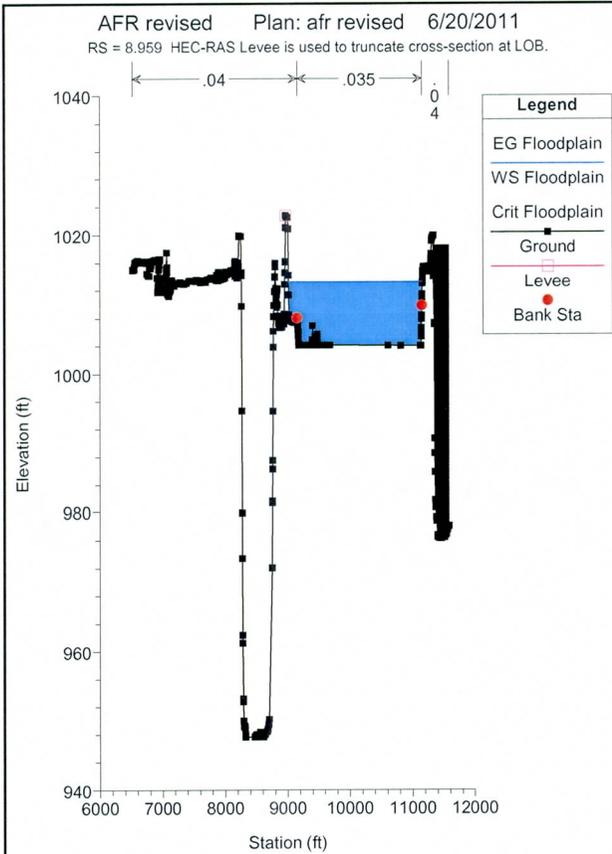


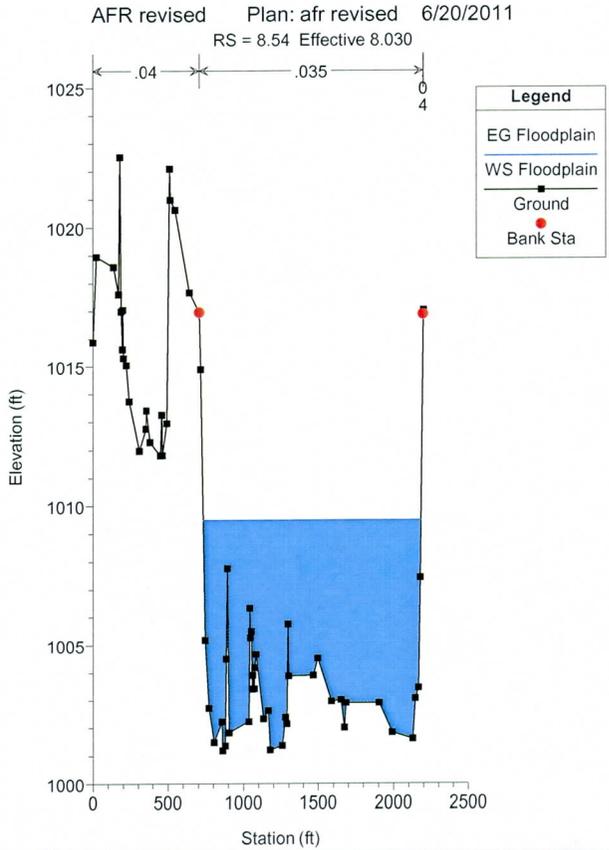
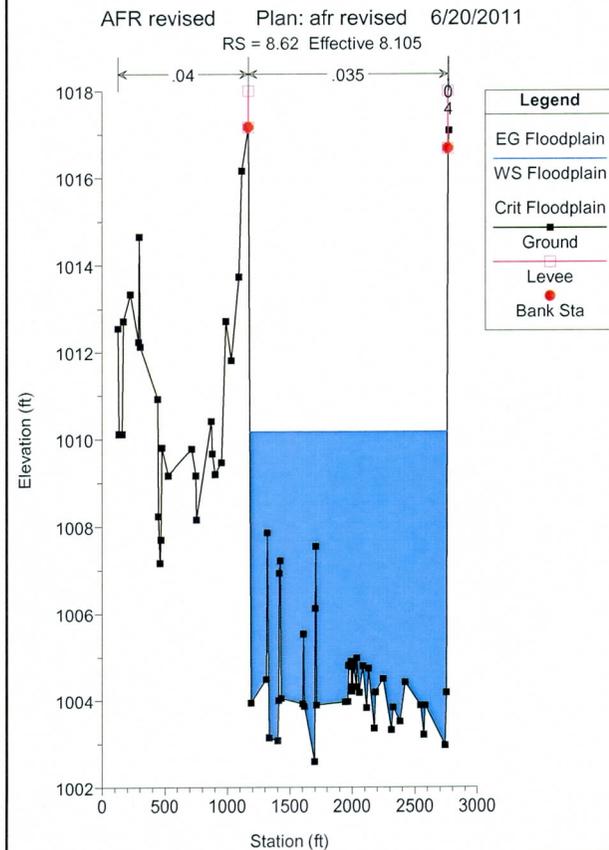
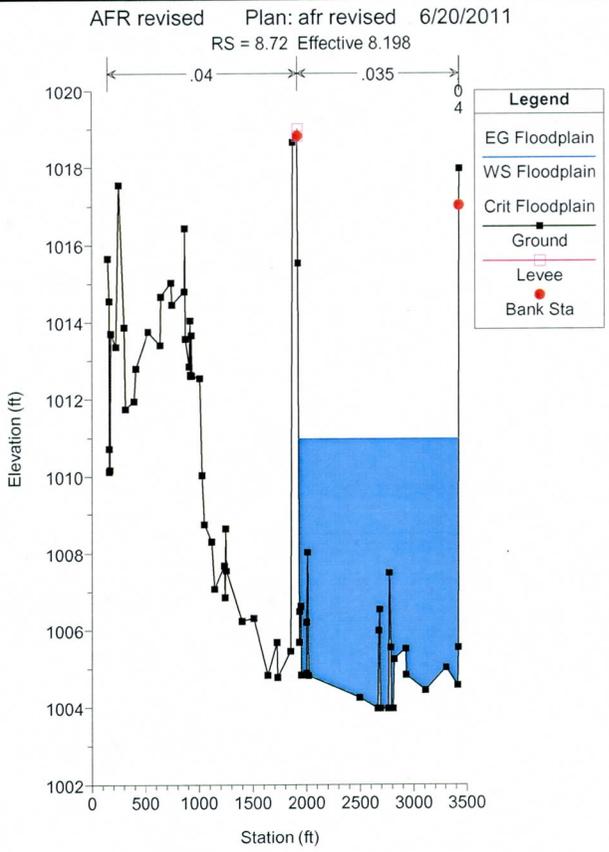
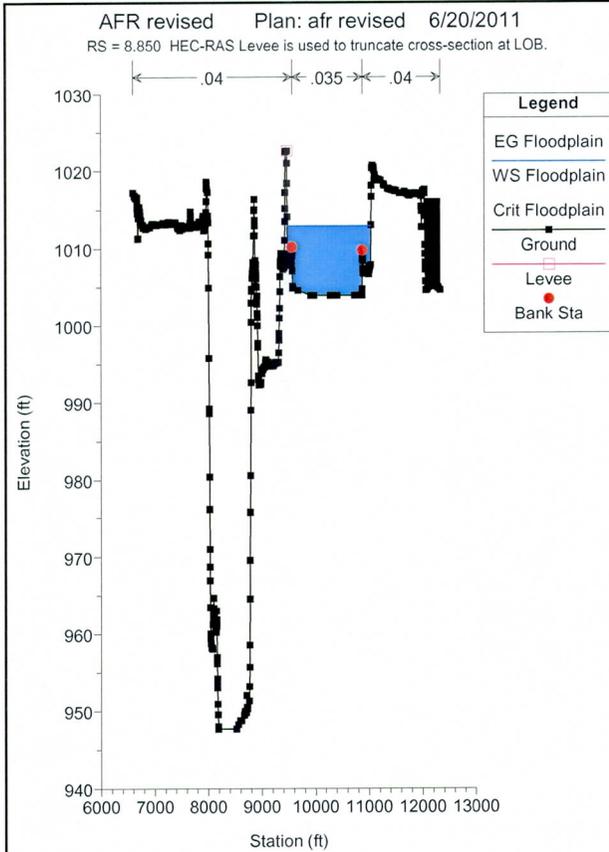
AFR revised Plan: afr revised 6/20/2011  
 RS = 9.193 Blocked obstruction is used to represent submerged ineffective a

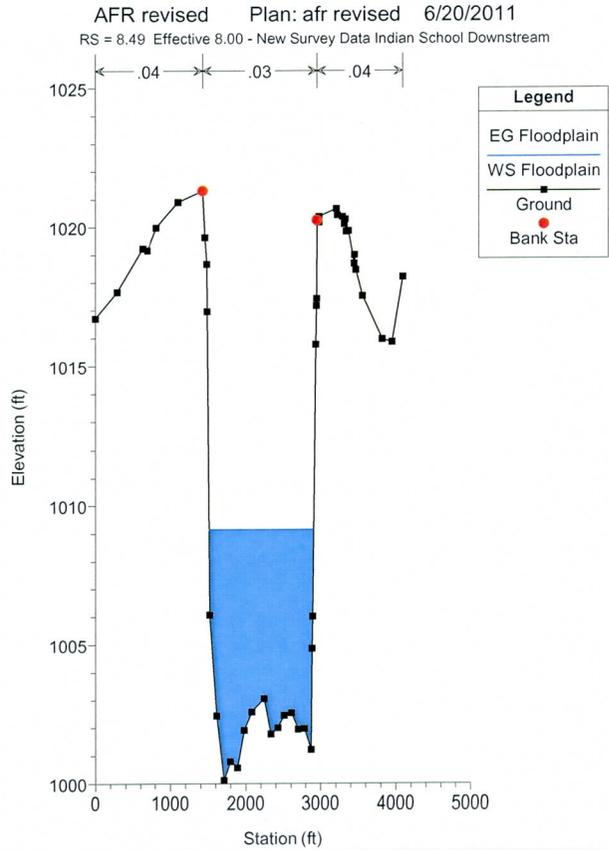
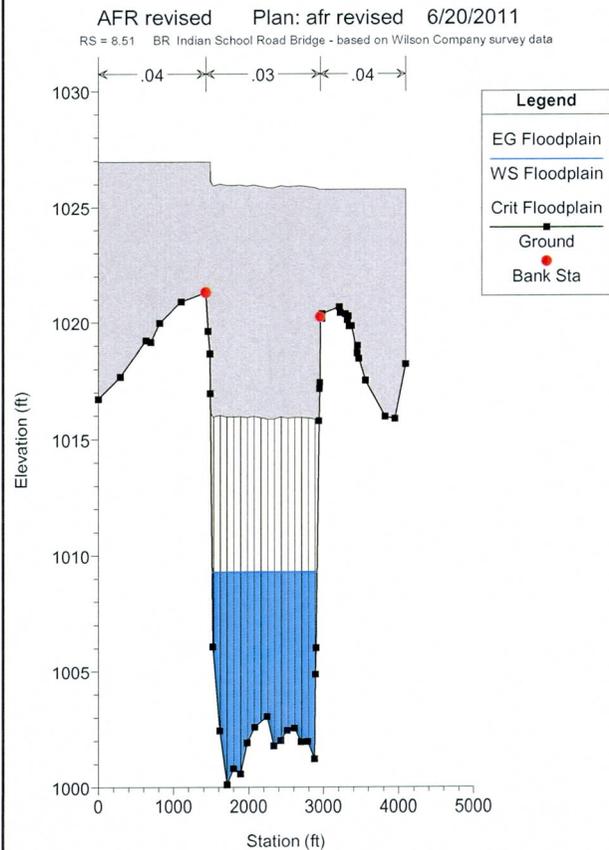
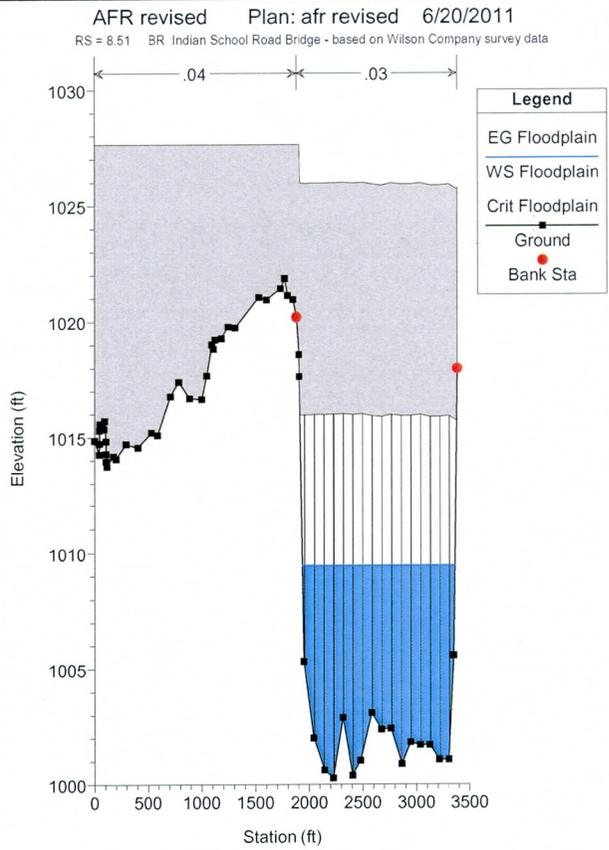
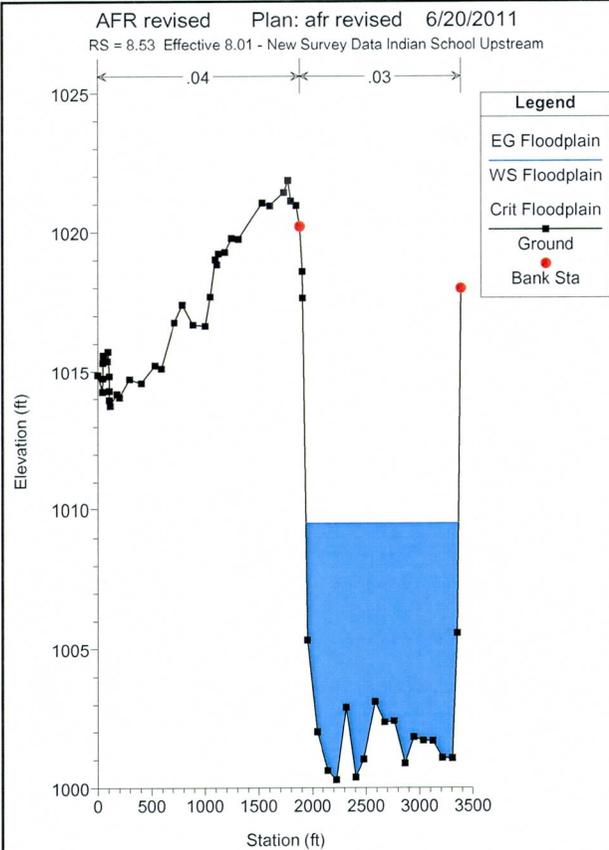


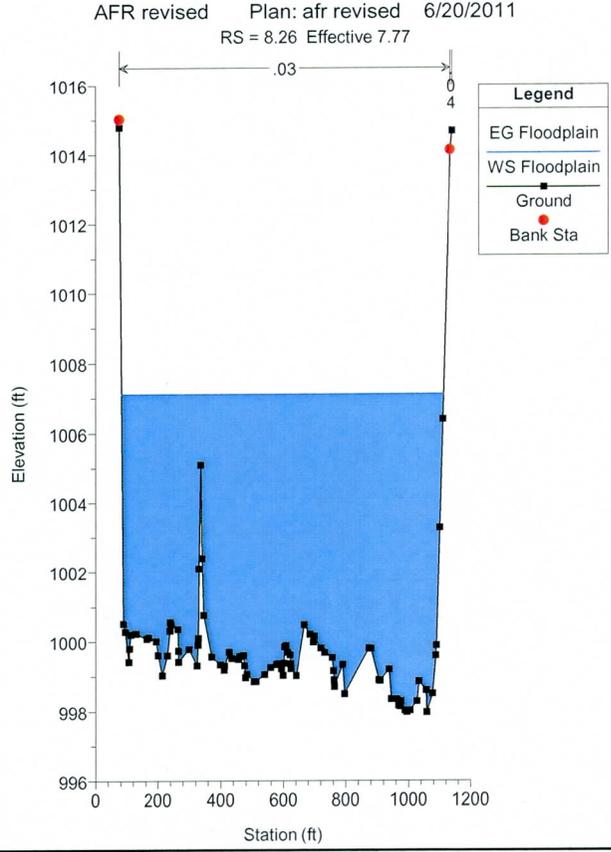
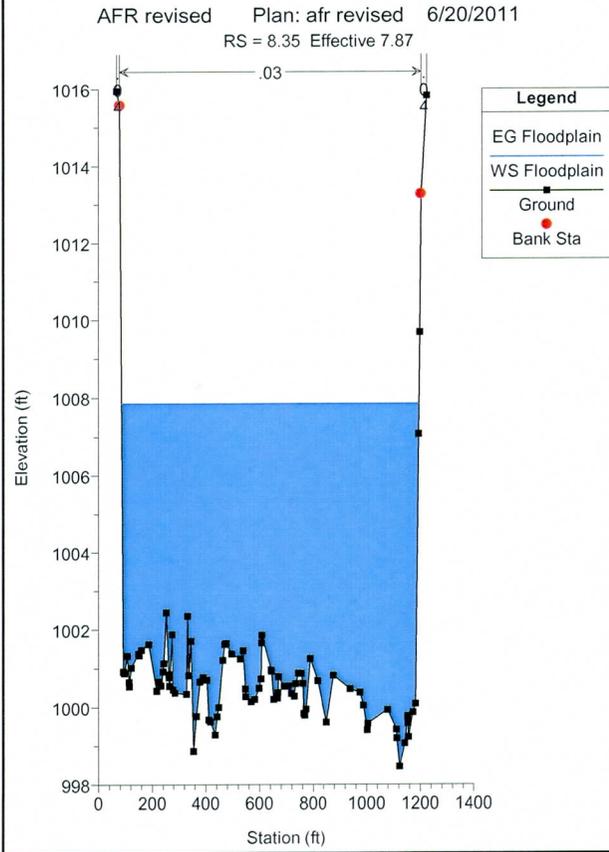
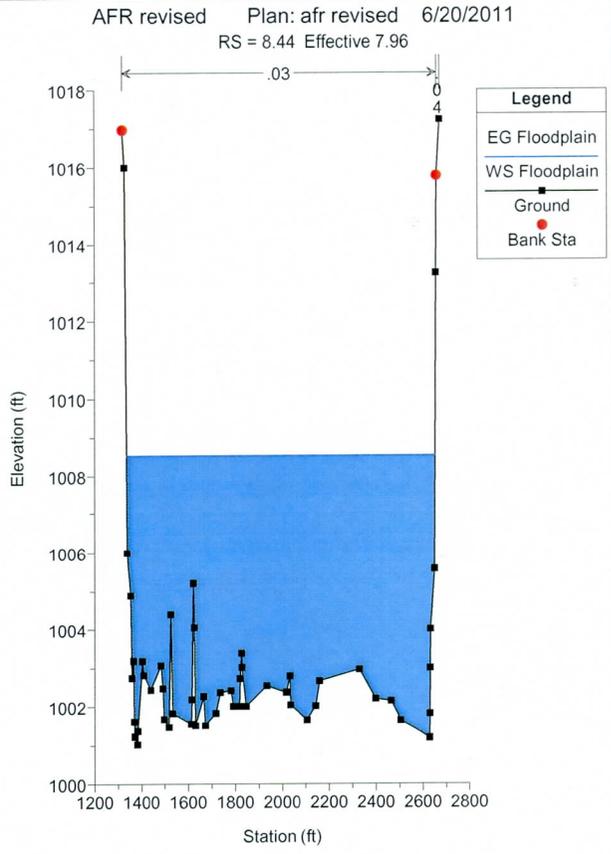
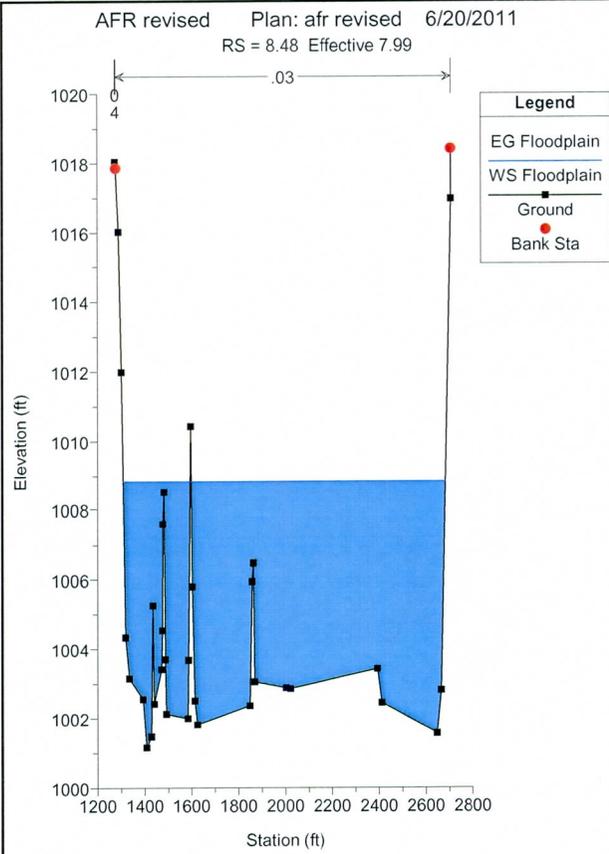




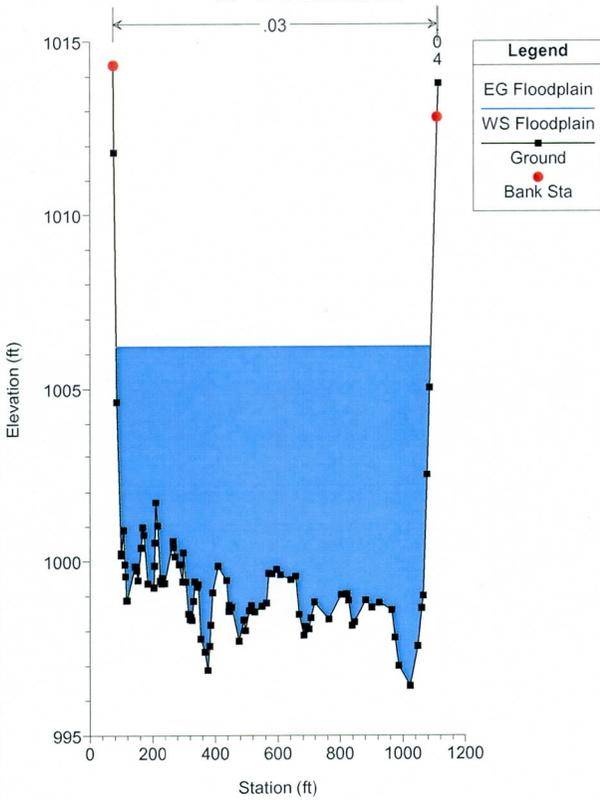




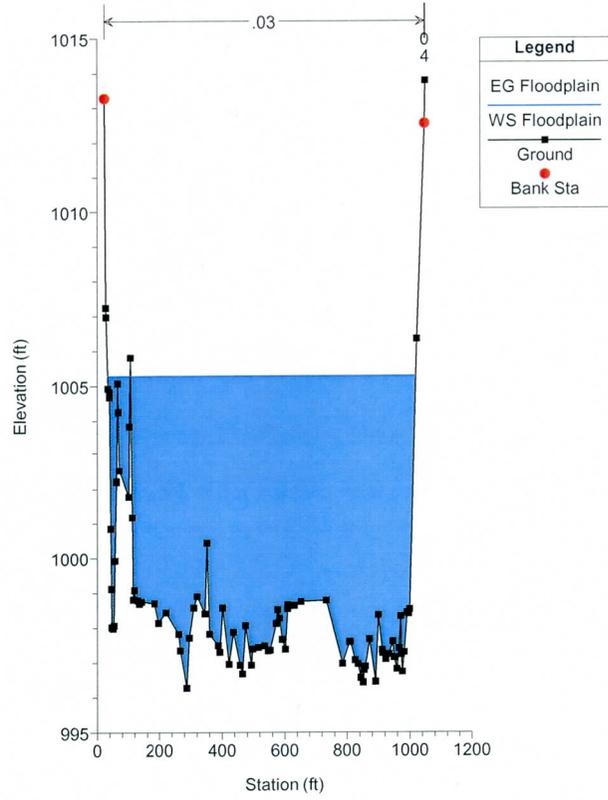




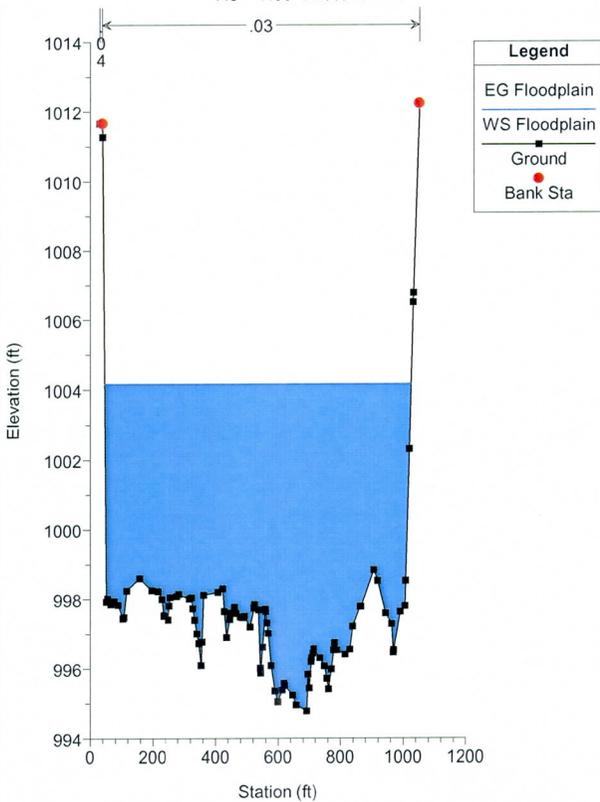
AFR revised Plan: afr revised 6/20/2011  
RS = 8.16 Effective 7.67



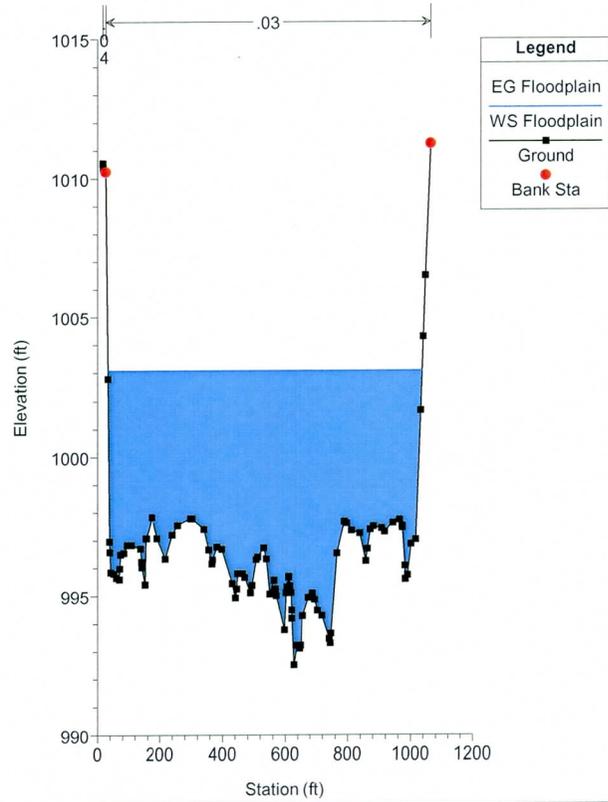
AFR revised Plan: afr revised 6/20/2011  
RS = 8.07 Effective 7.58

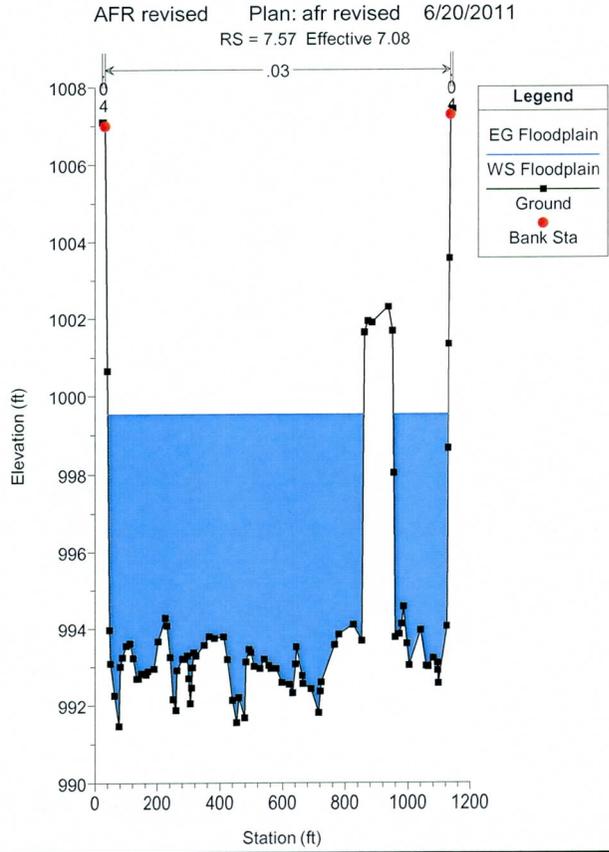
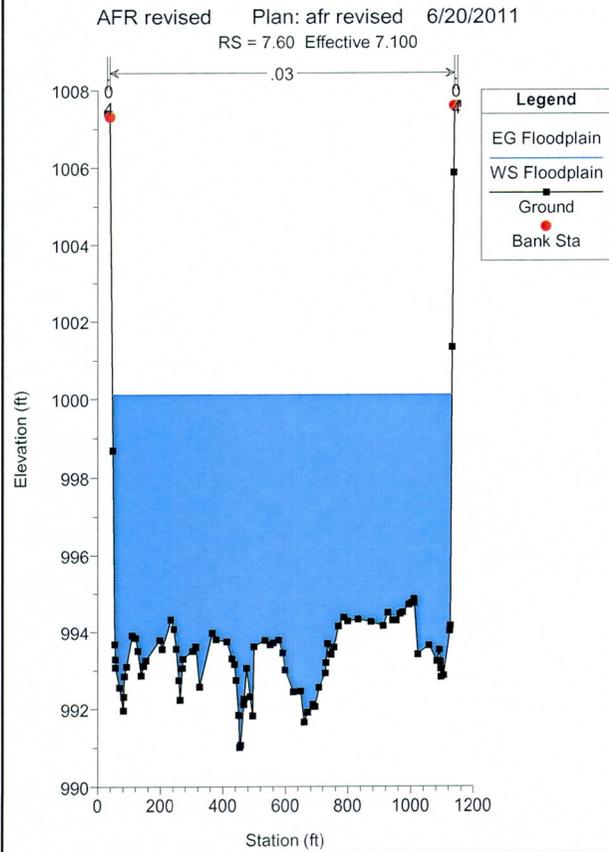
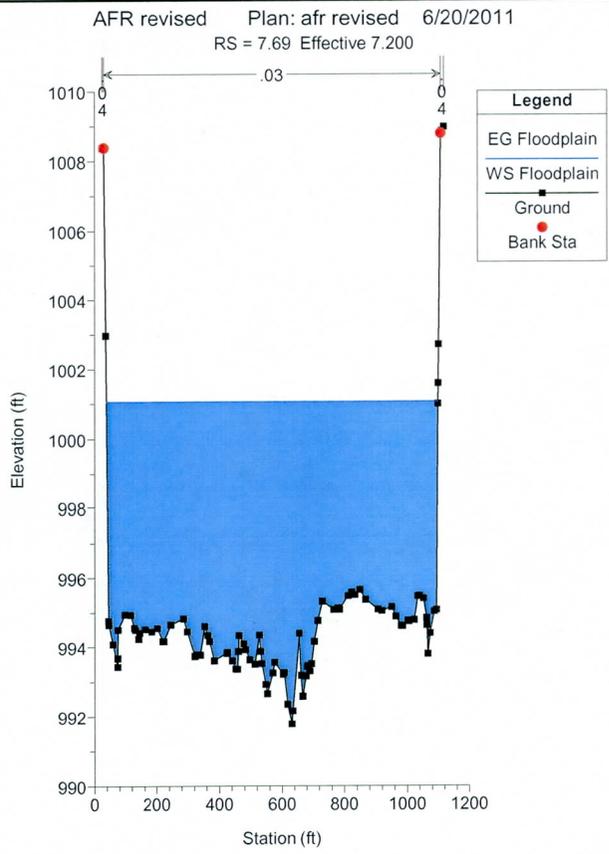
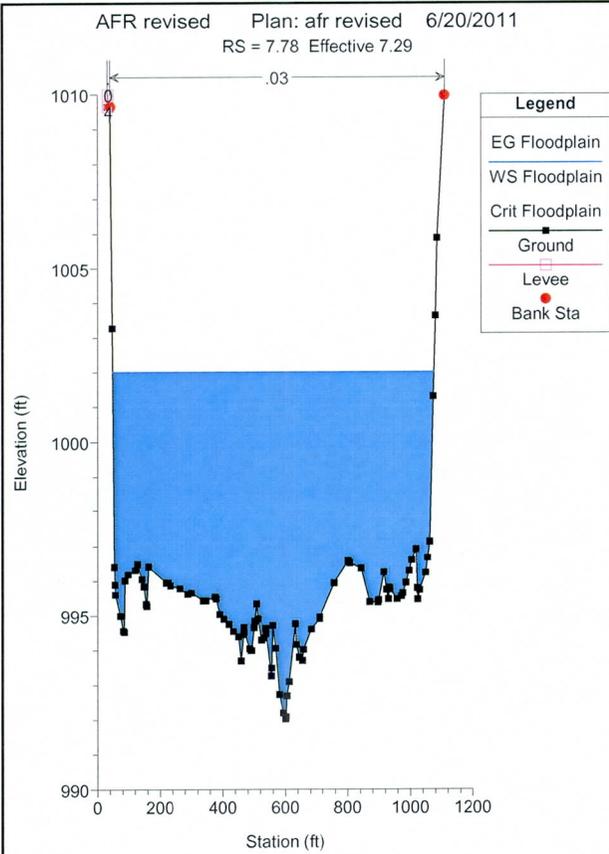


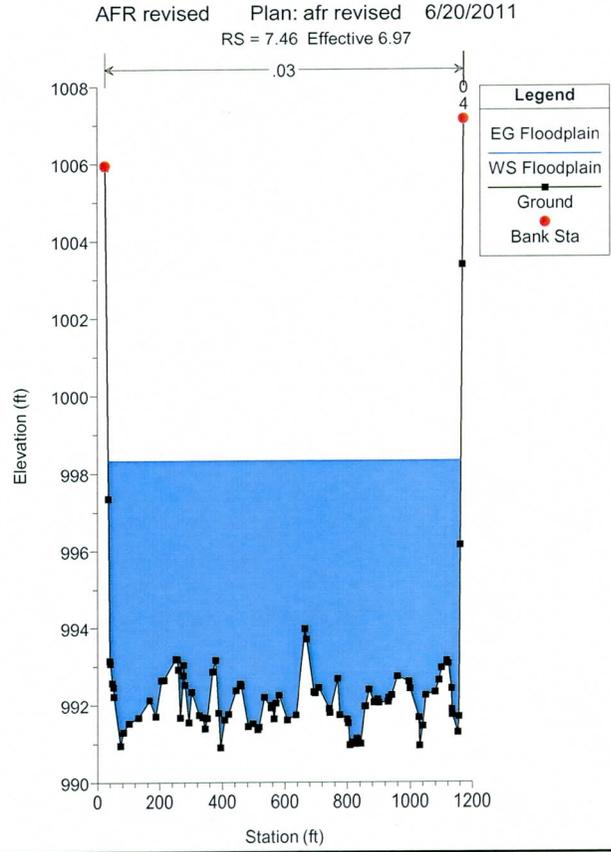
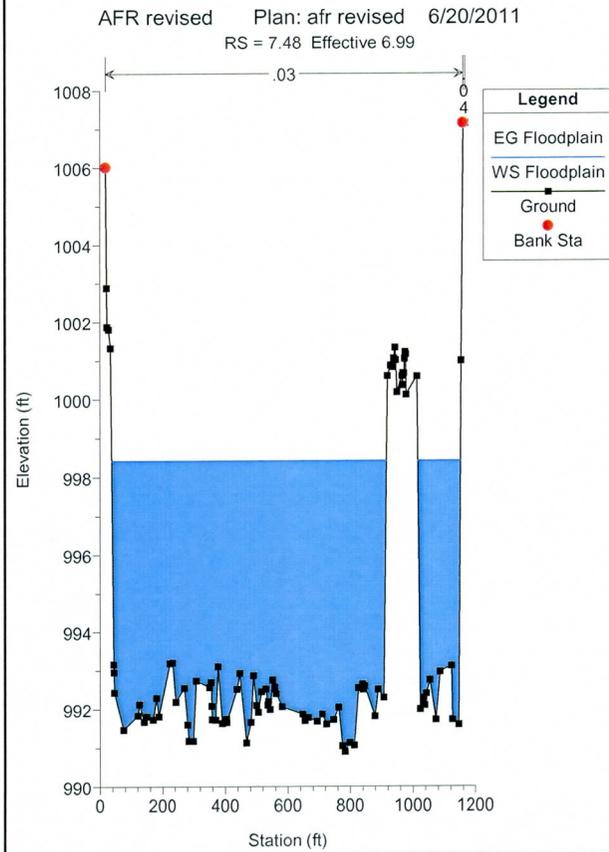
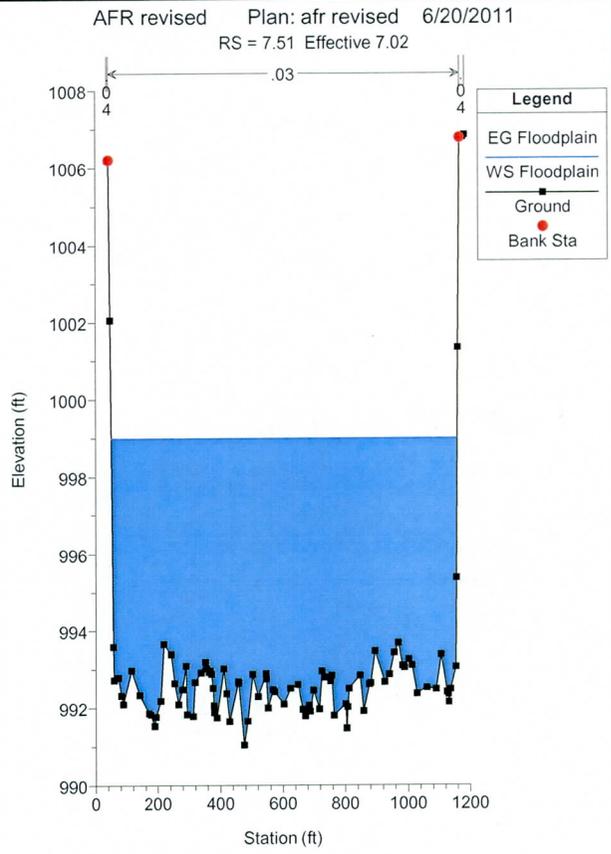
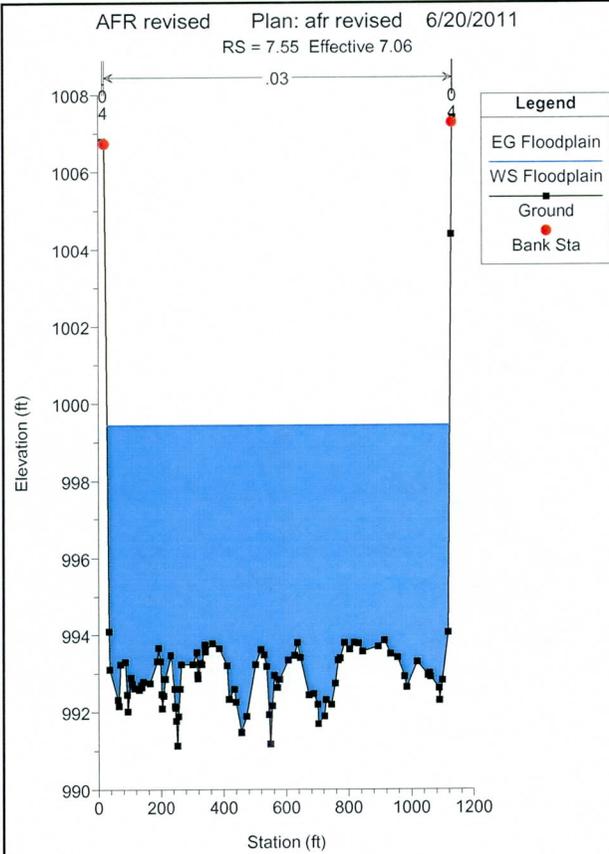
AFR revised Plan: afr revised 6/20/2011  
RS = 7.98 Effective 7.49

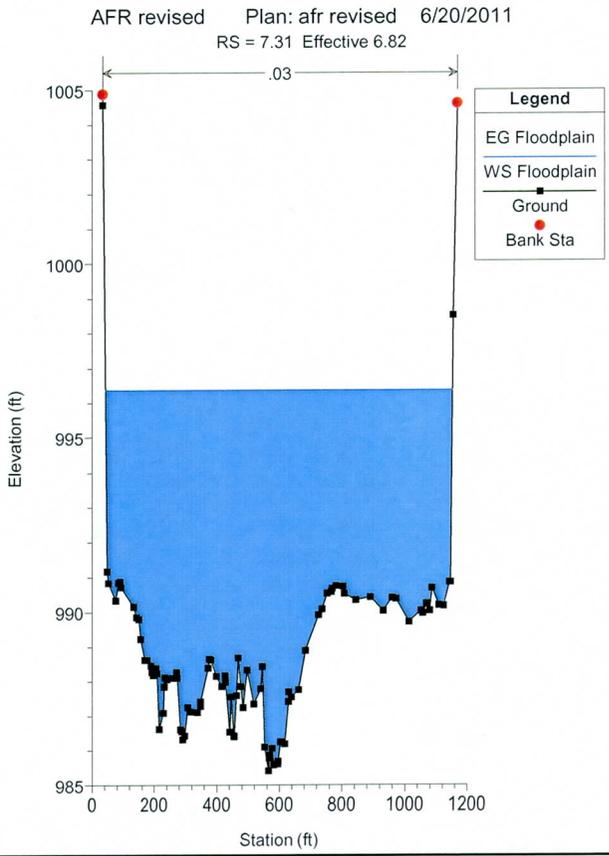
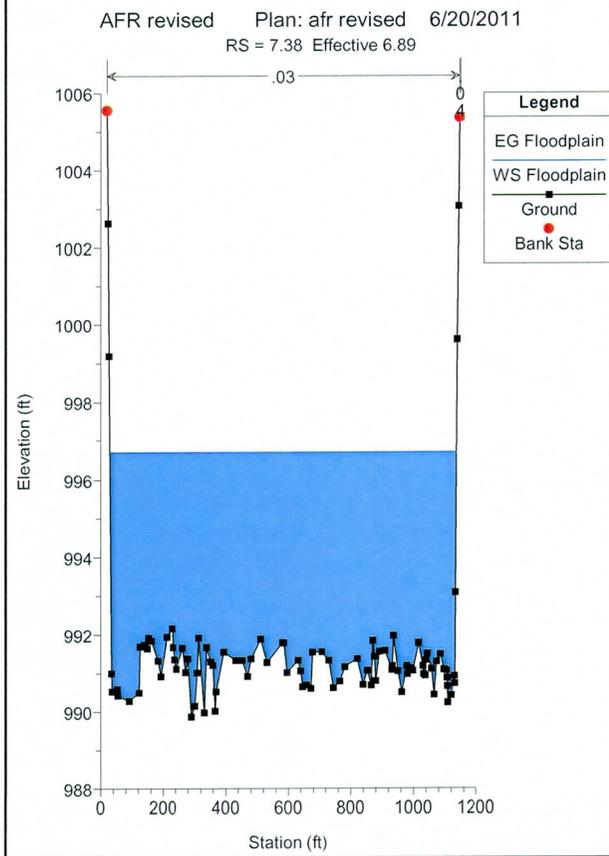
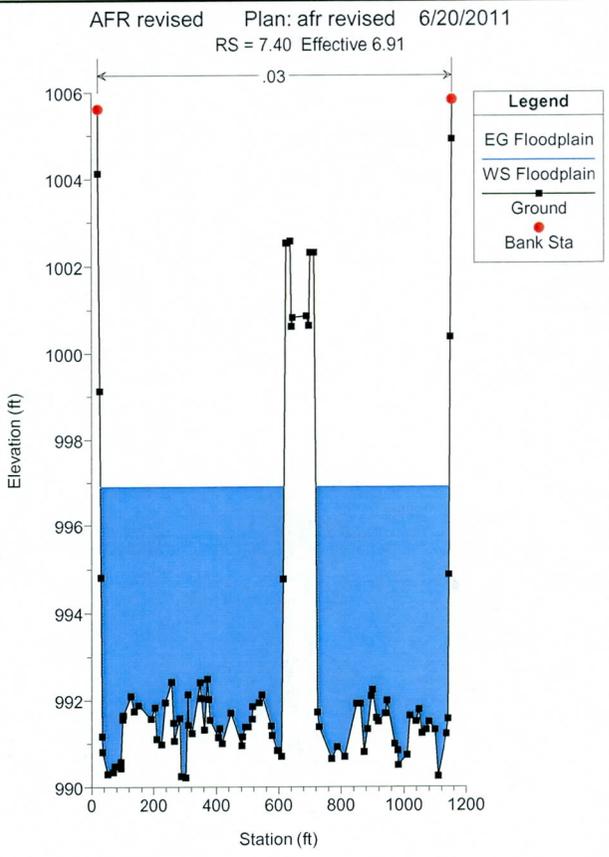
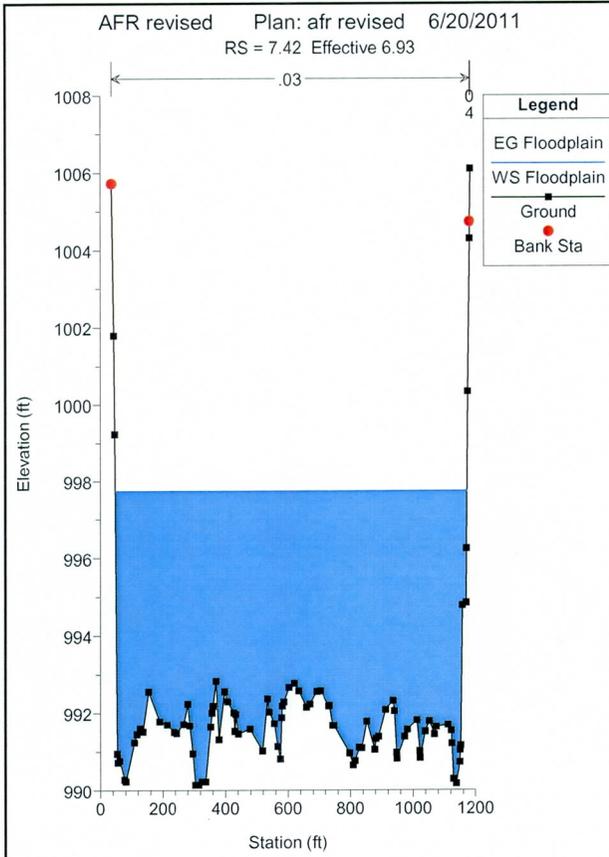


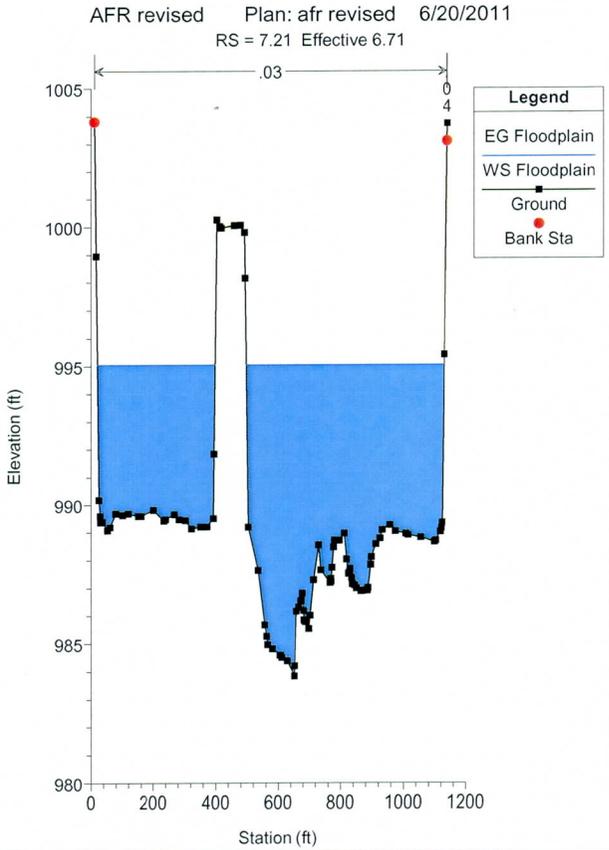
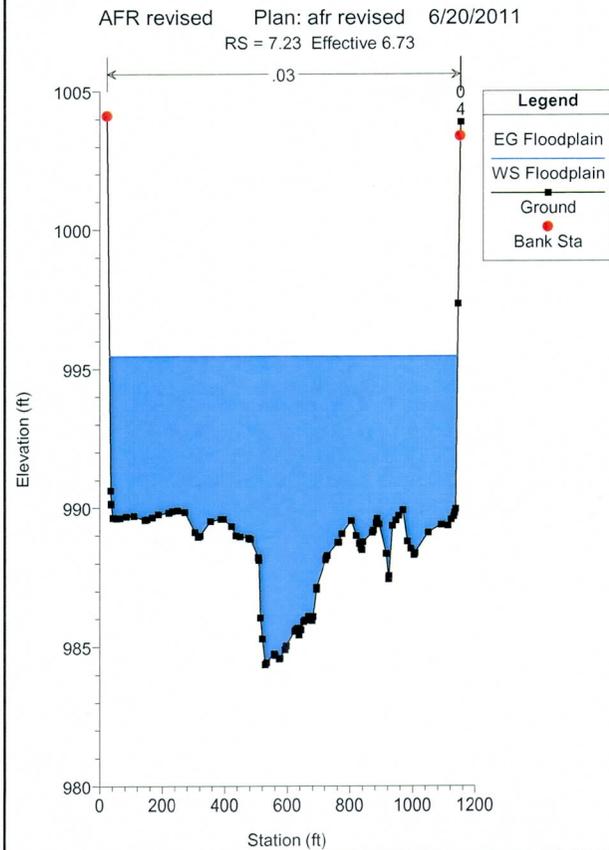
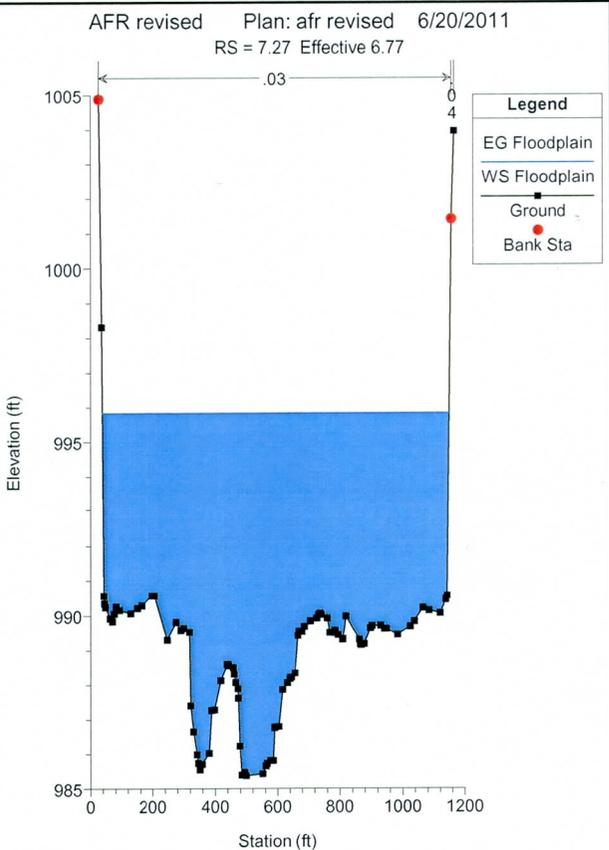
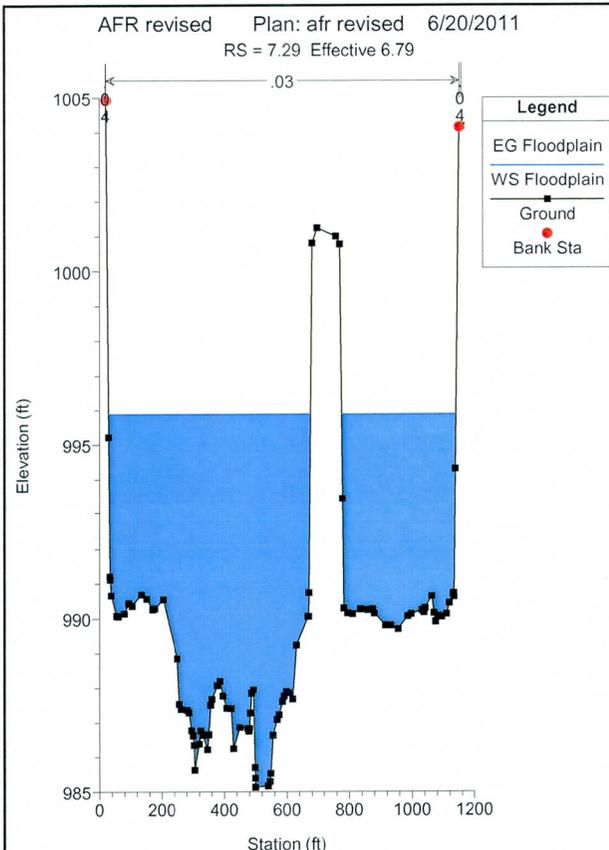
AFR revised Plan: afr revised 6/20/2011  
RS = 7.88 Effective 7.39



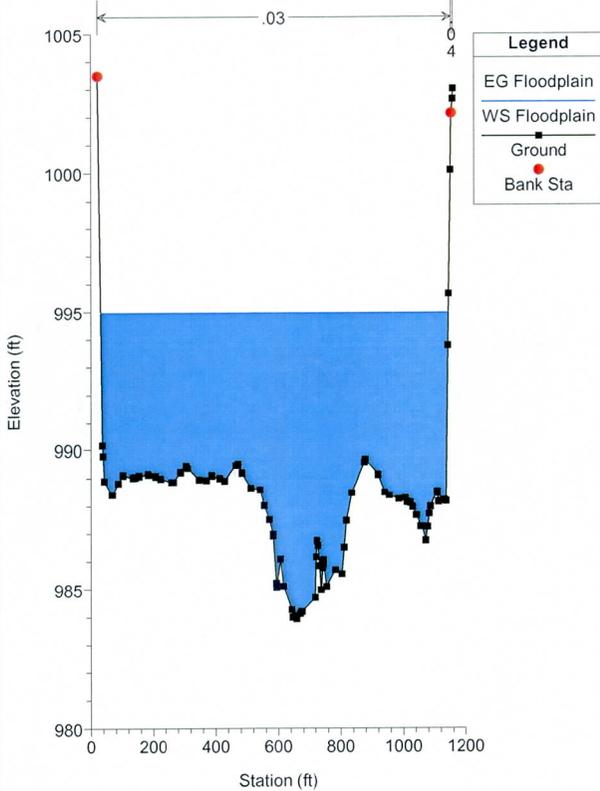




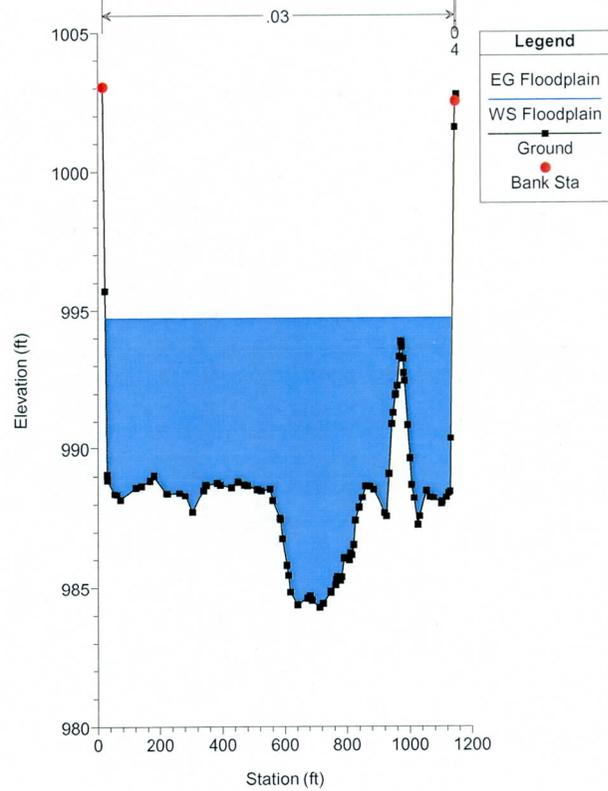




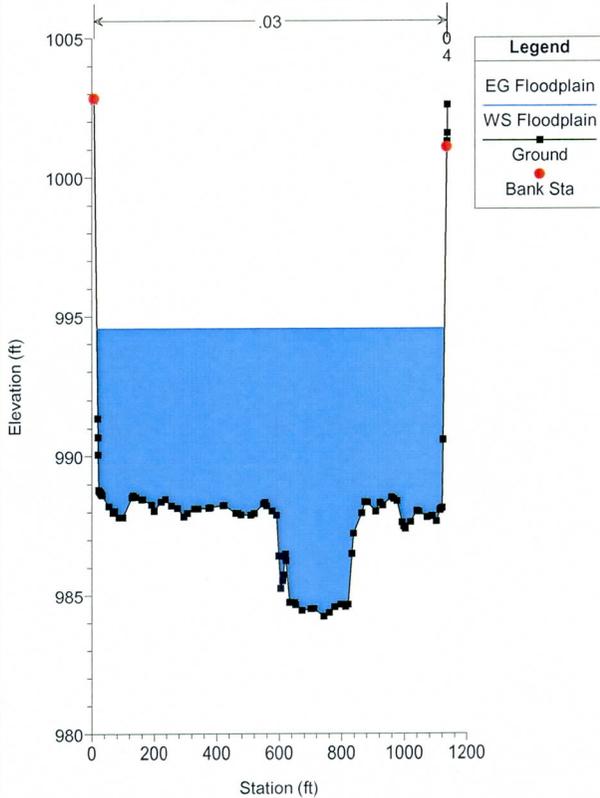
AFR revised Plan: afr revised 6/20/2011  
RS = 7.18 Effective 6.69



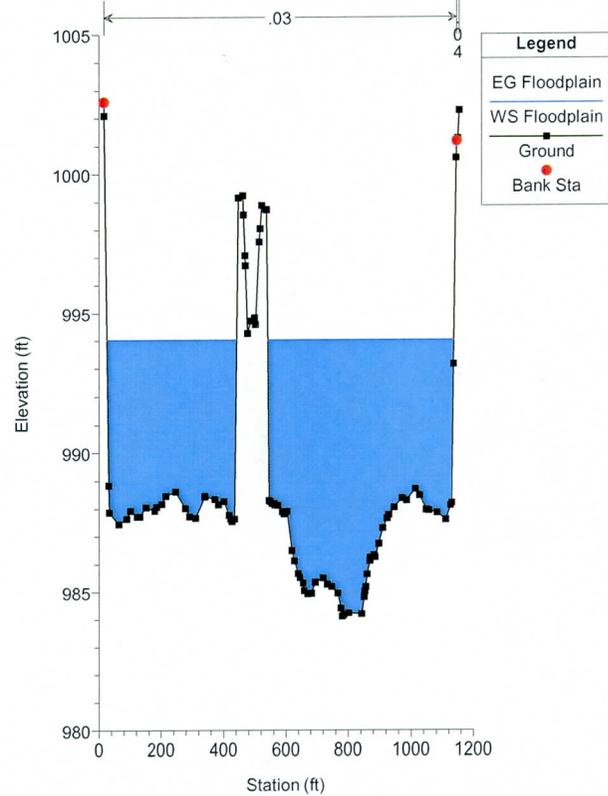
AFR revised Plan: afr revised 6/20/2011  
RS = 7.16 Effective 6.66

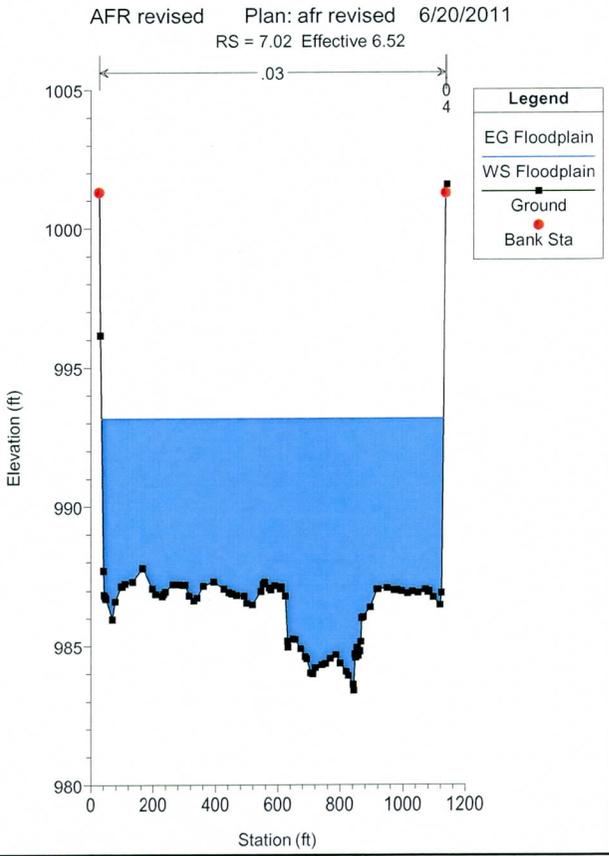
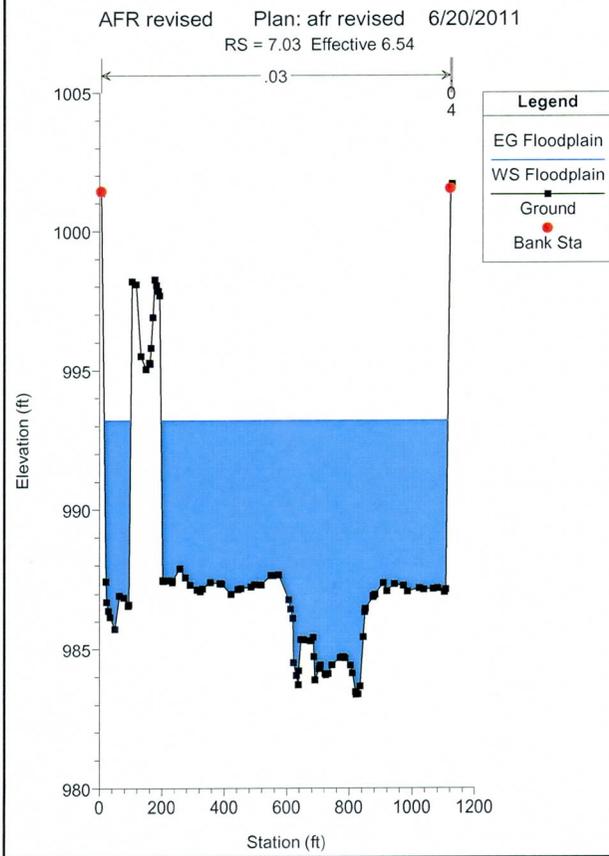
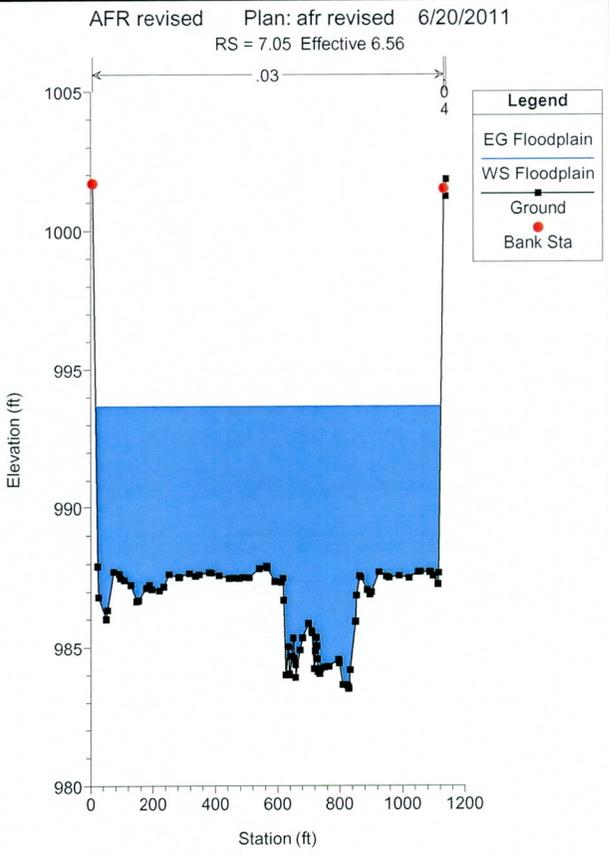
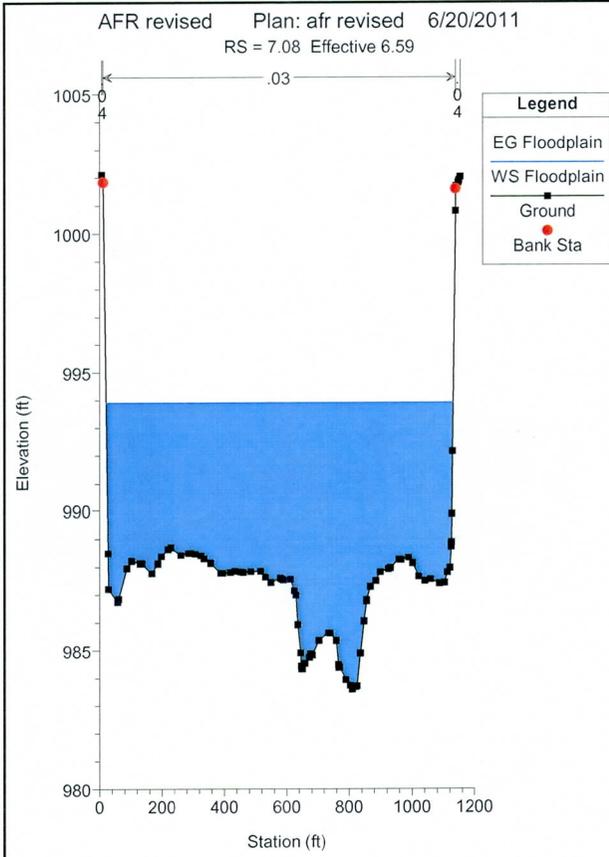


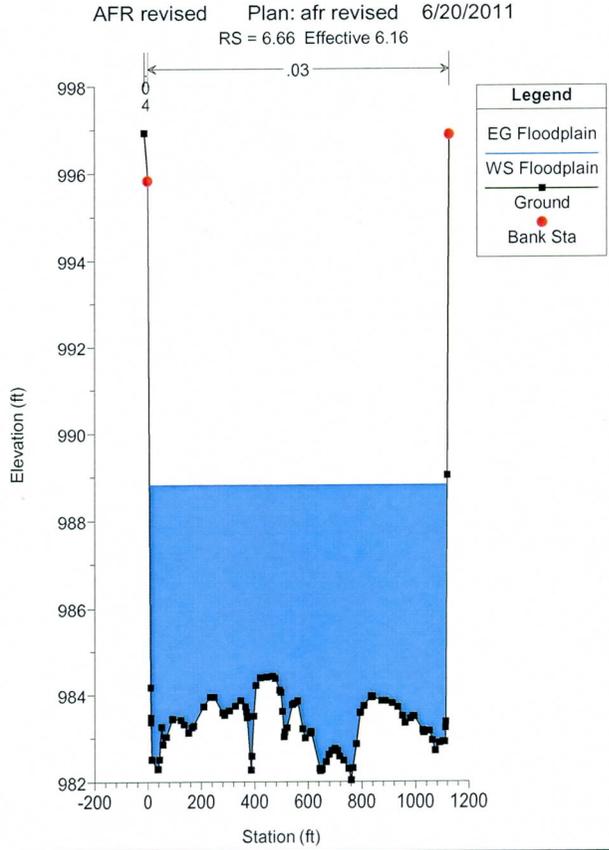
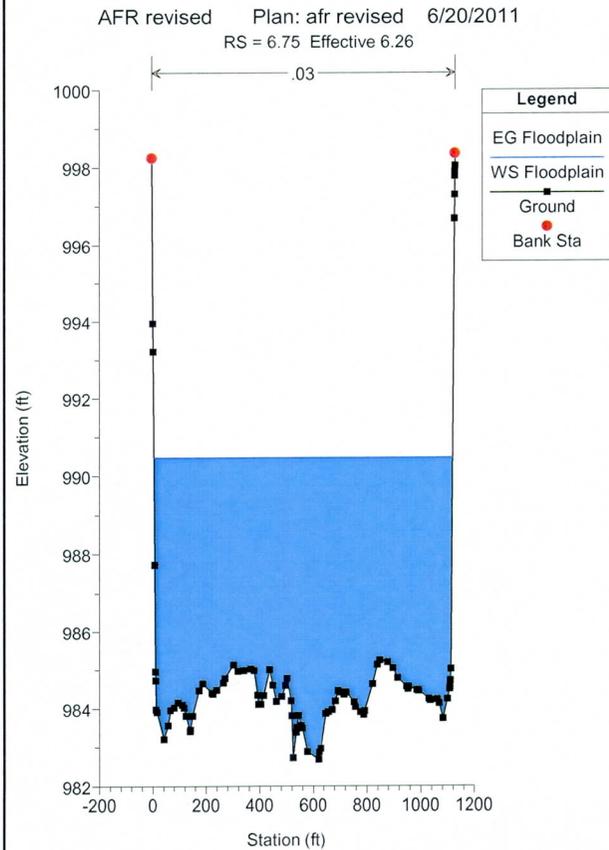
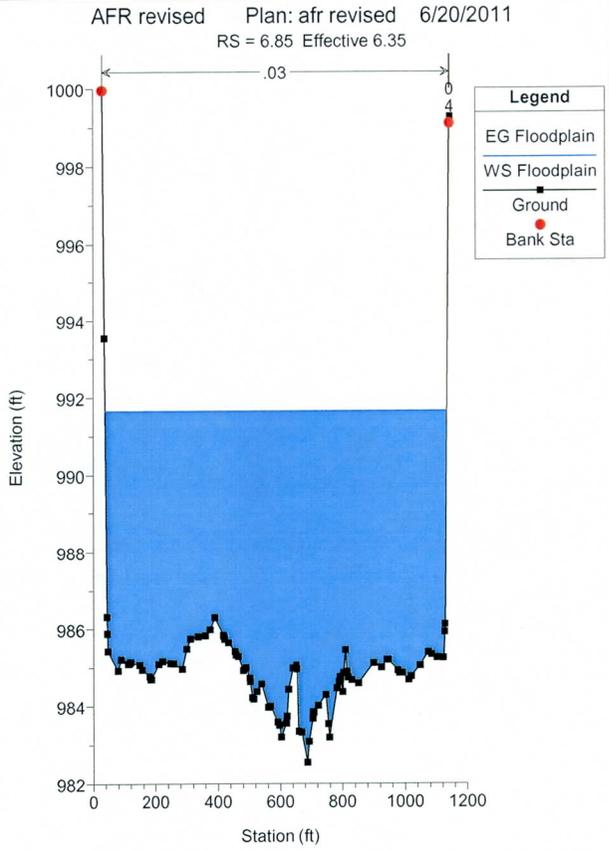
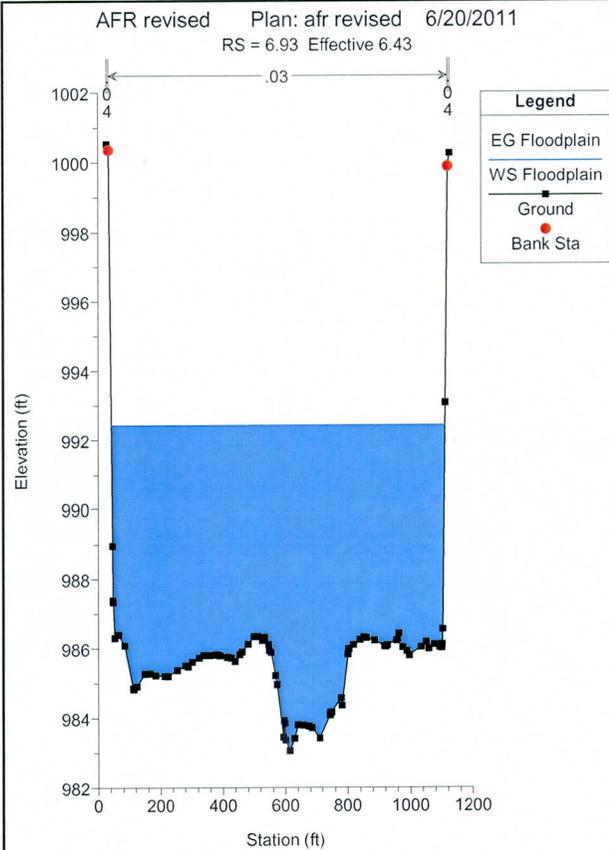
AFR revised Plan: afr revised 6/20/2011  
RS = 7.13 Effective 6.64

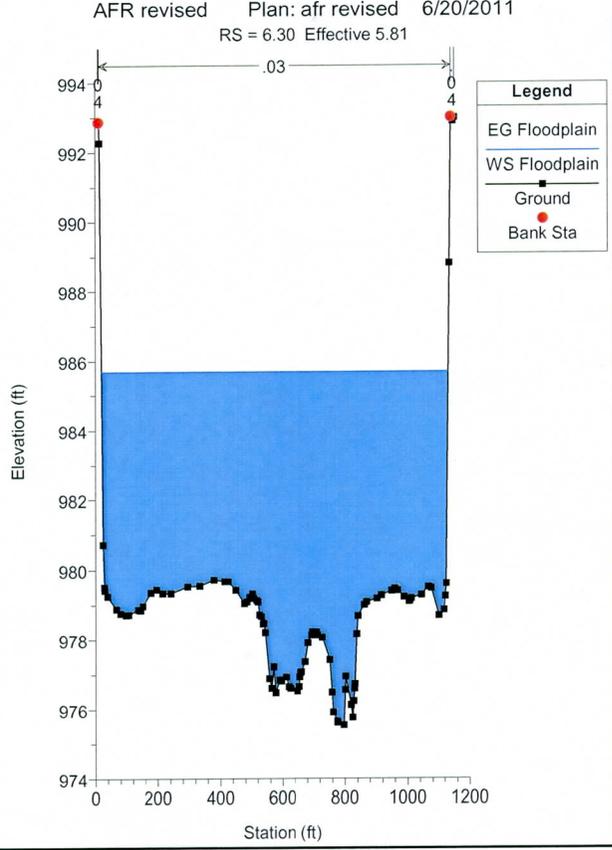
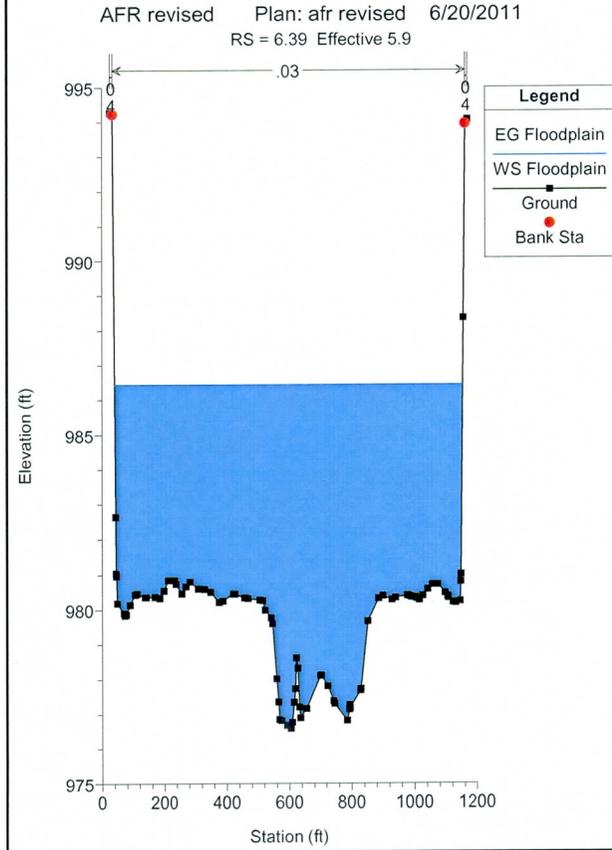
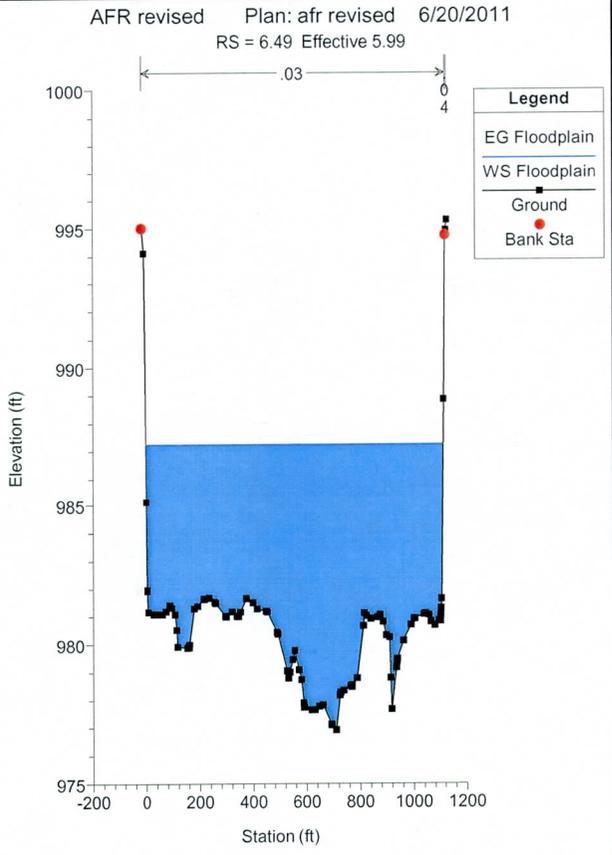
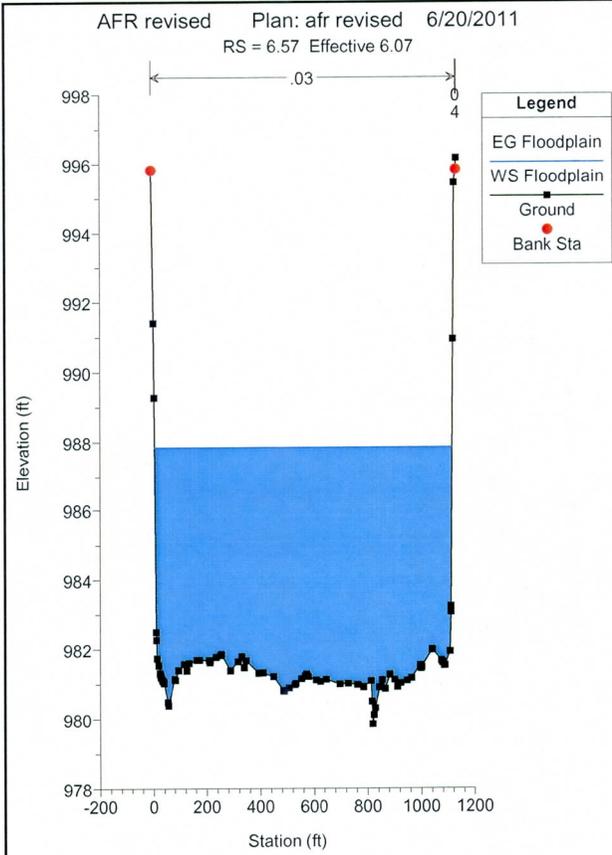


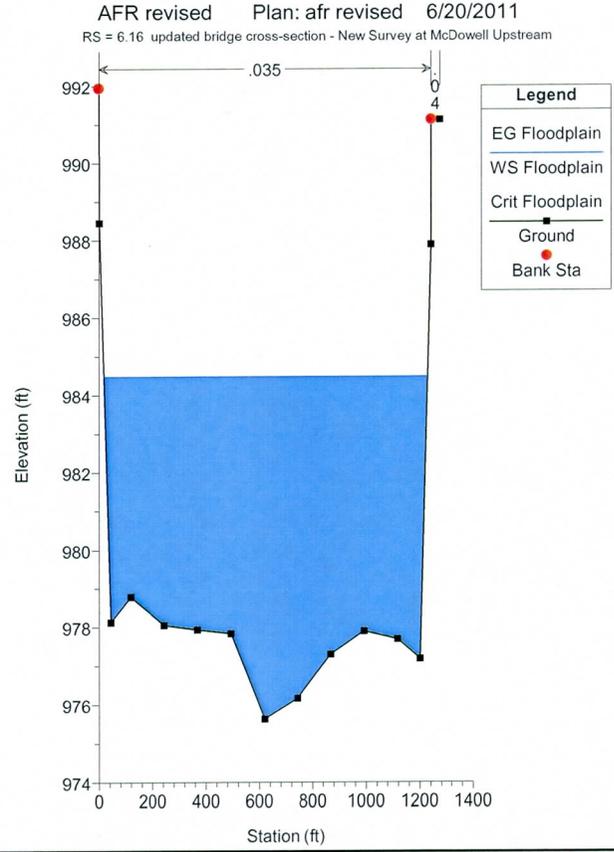
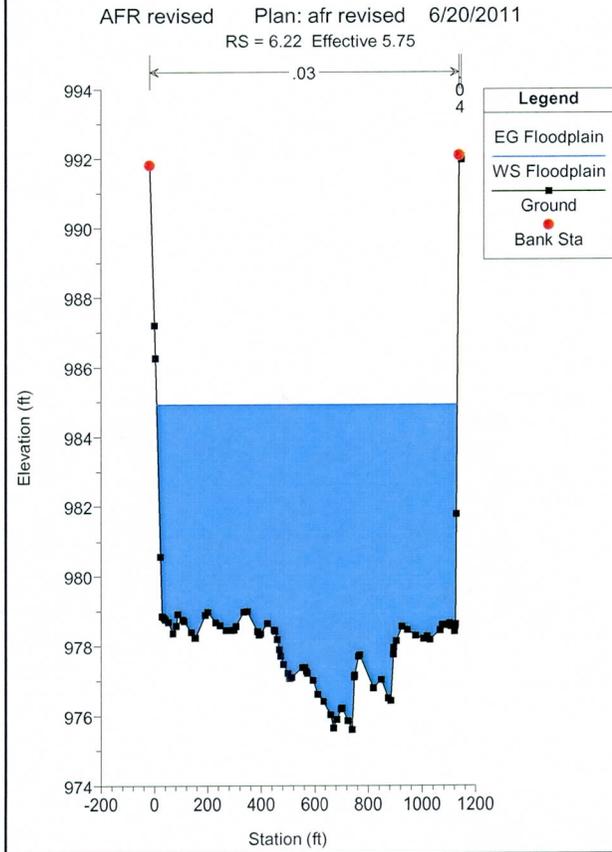
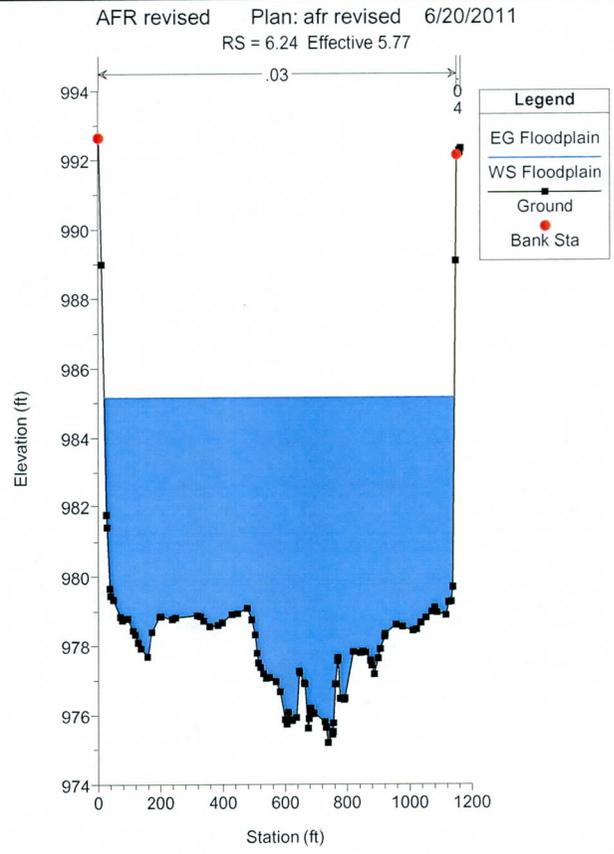
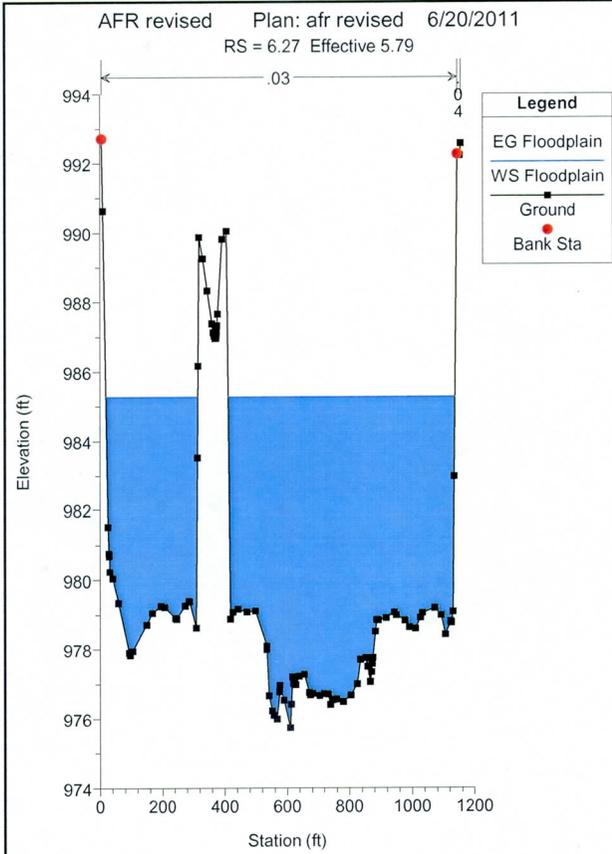
AFR revised Plan: afr revised 6/20/2011  
RS = 7.10 Effective 6.61

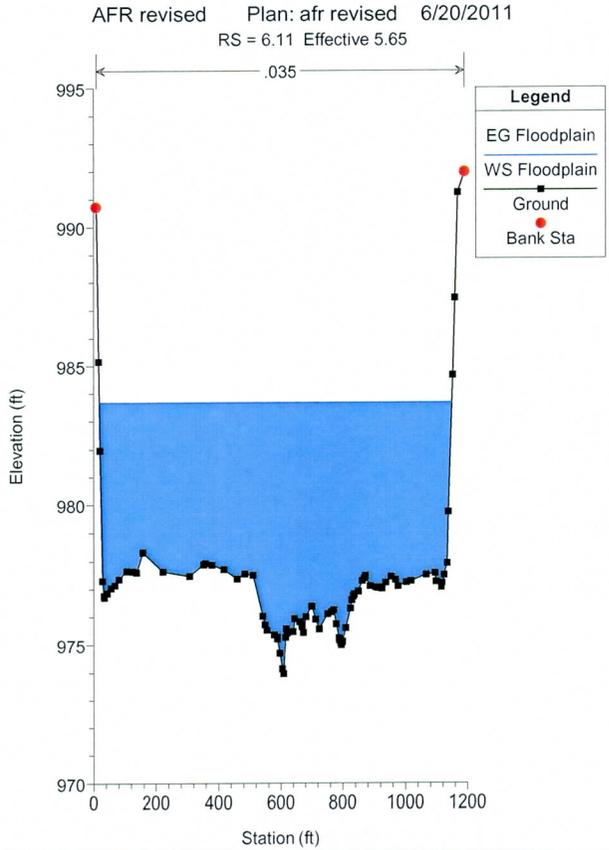
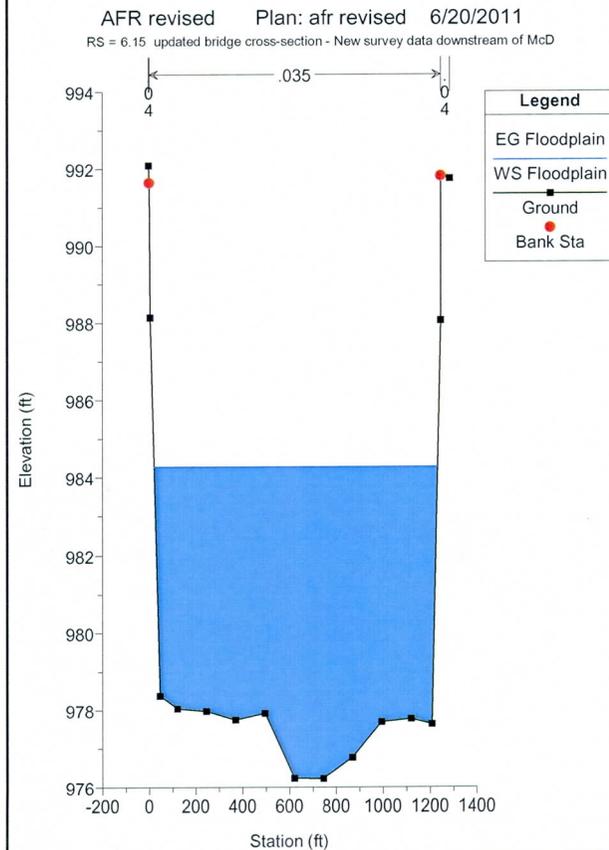
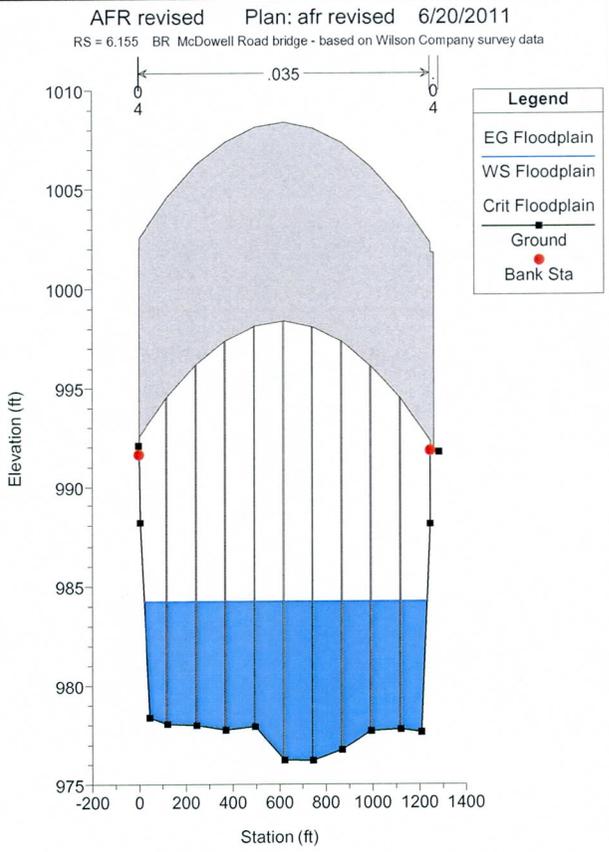
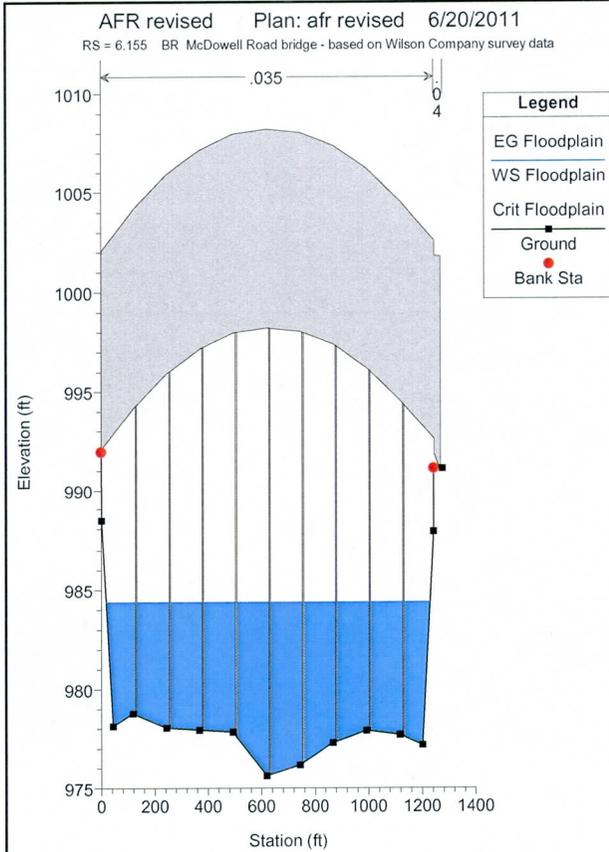


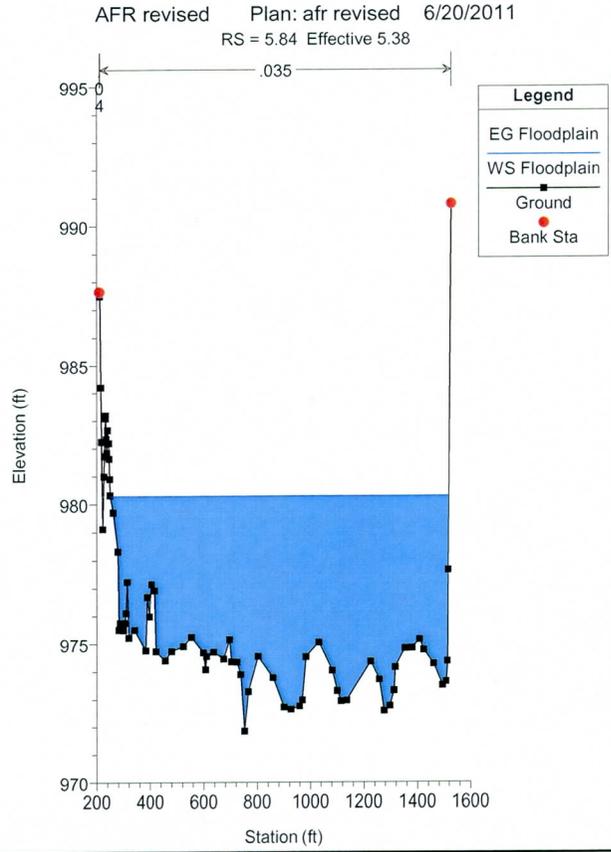
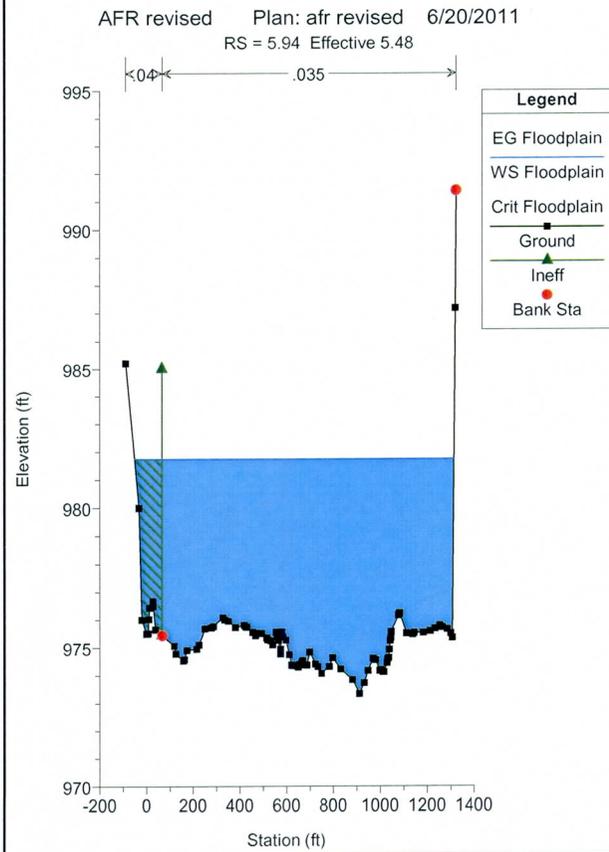
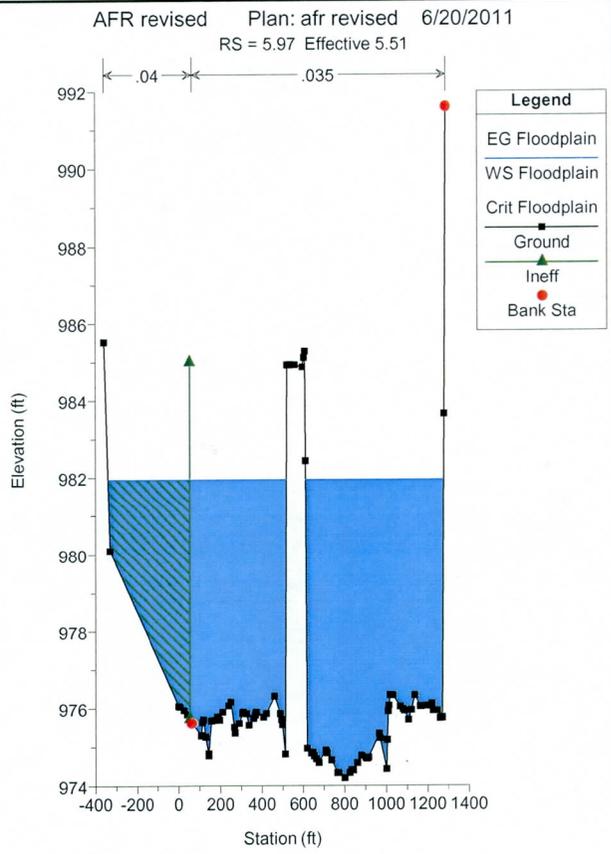
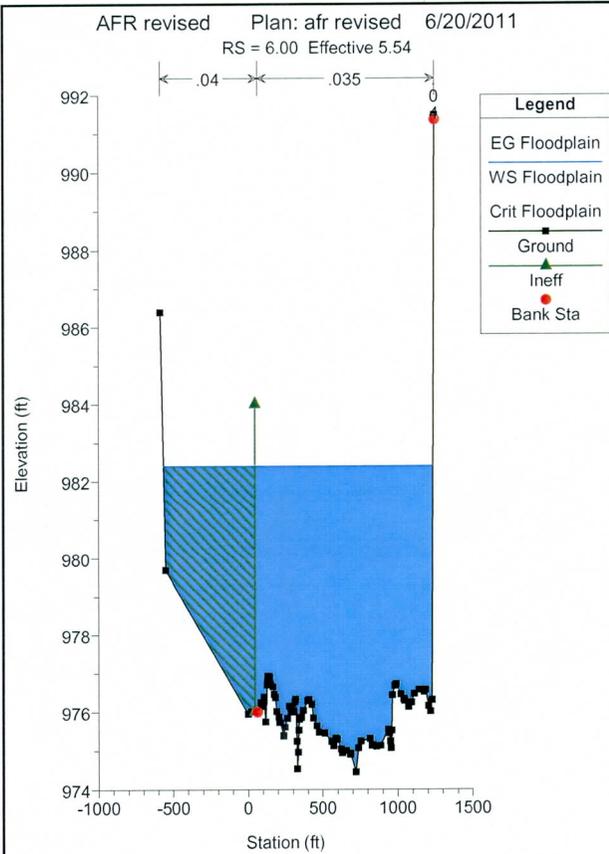


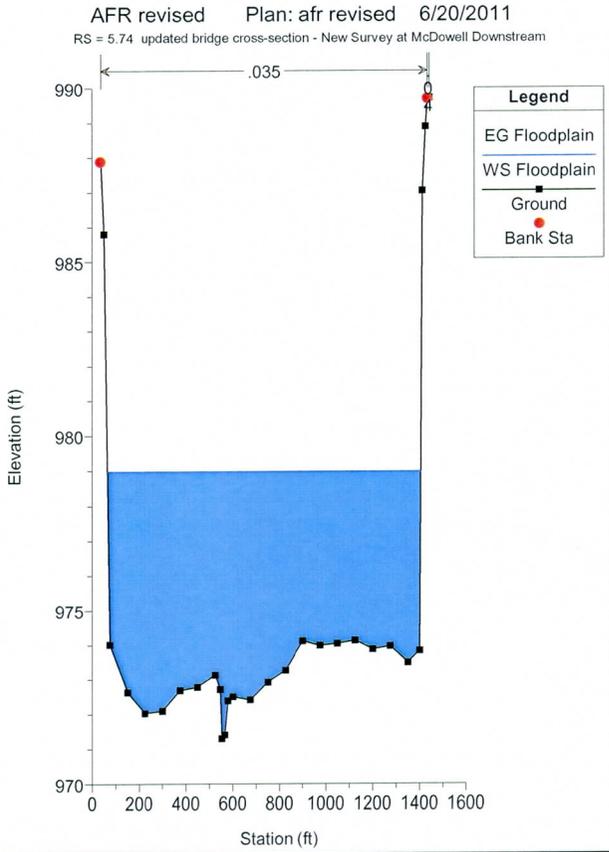
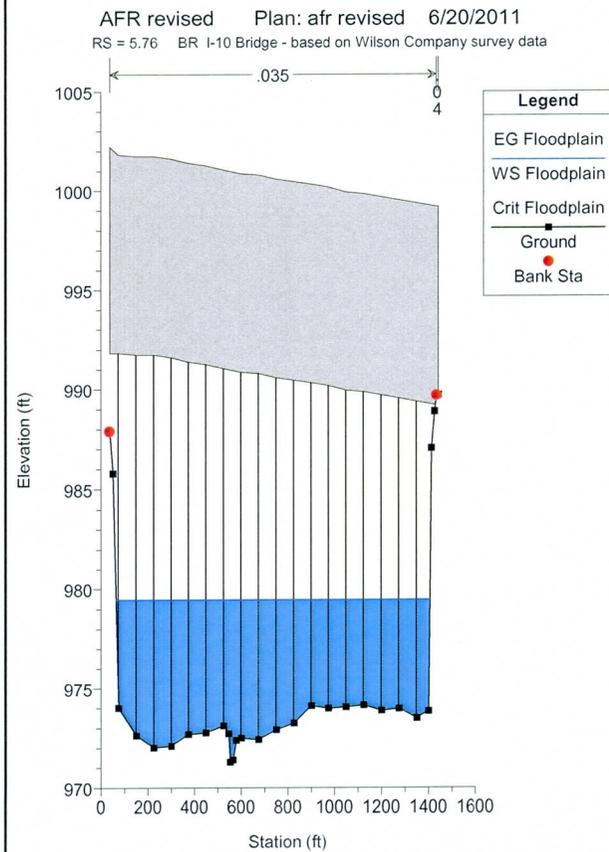
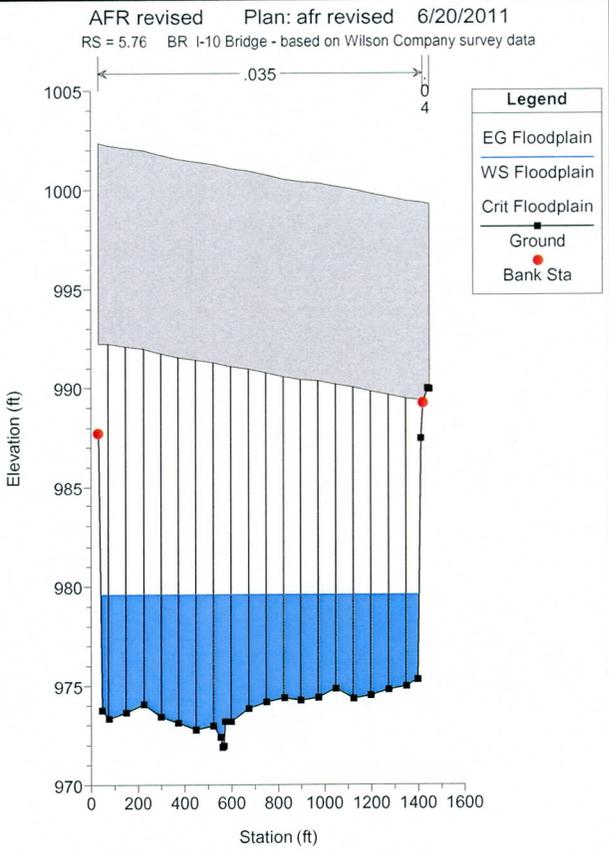
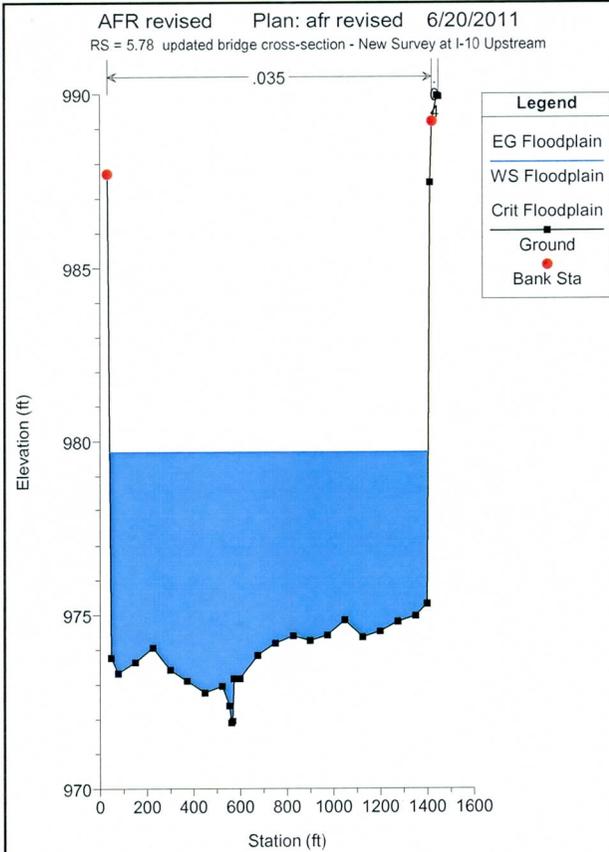


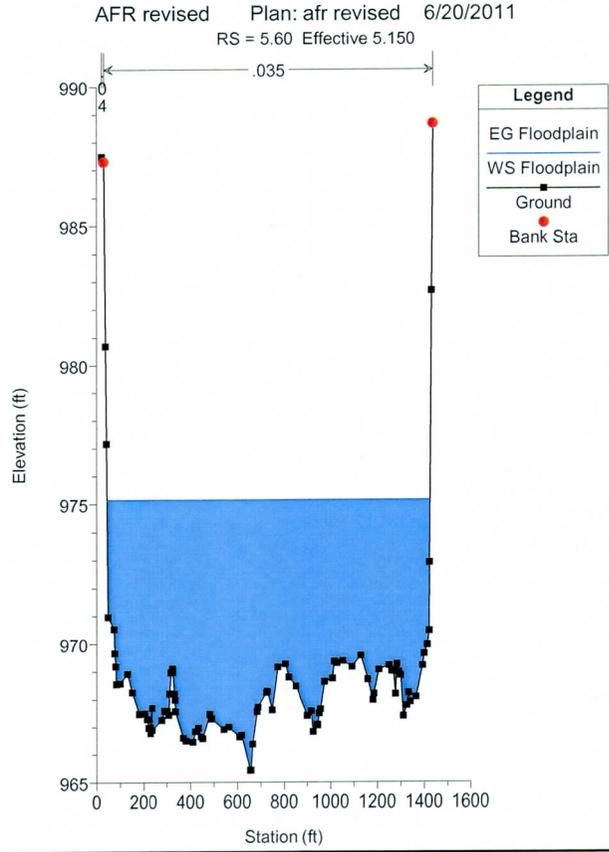
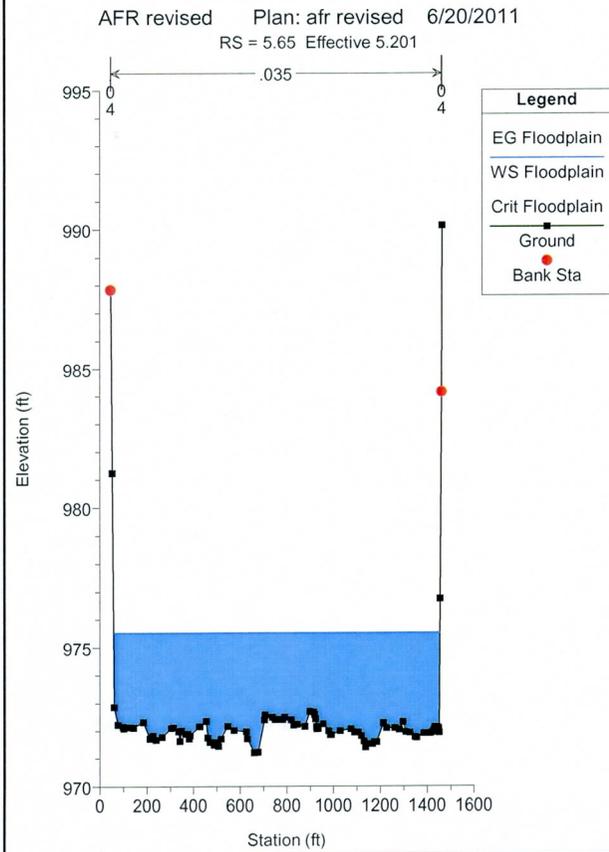
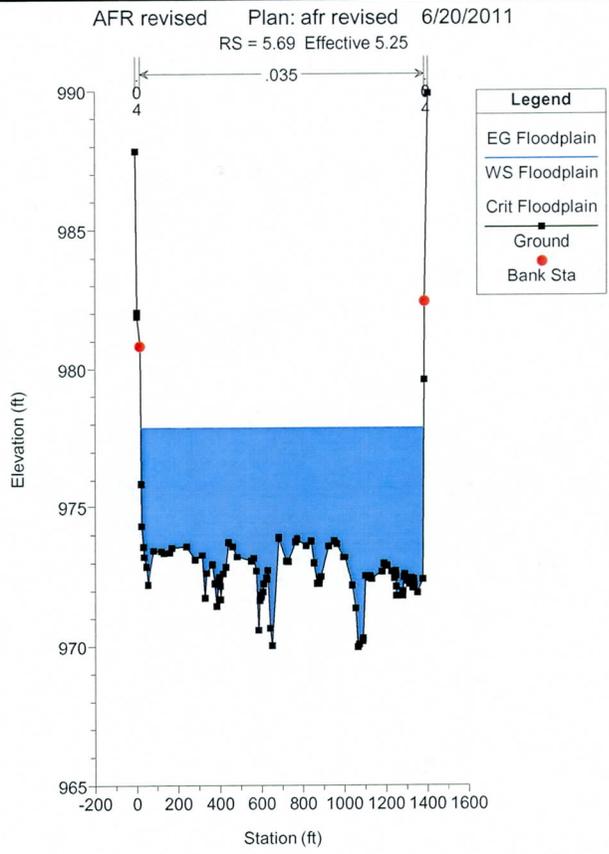
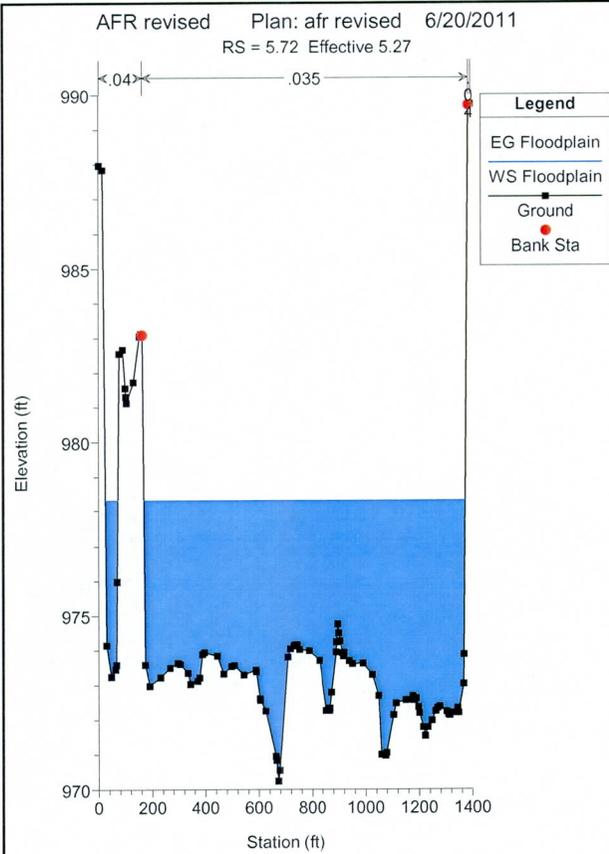


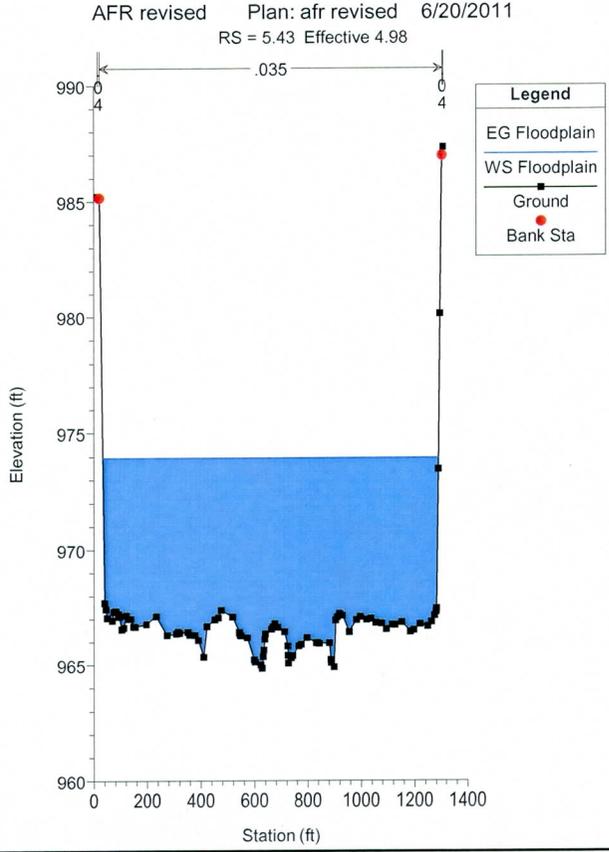
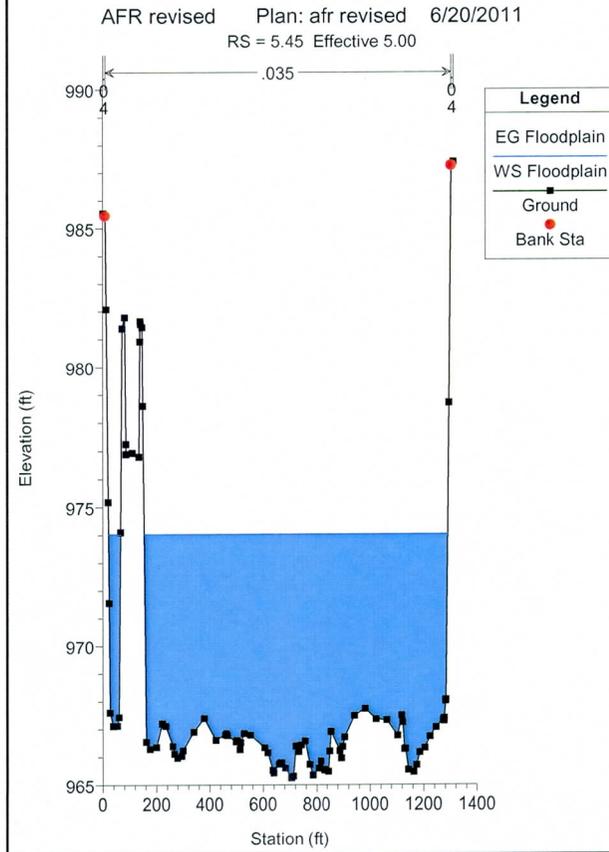
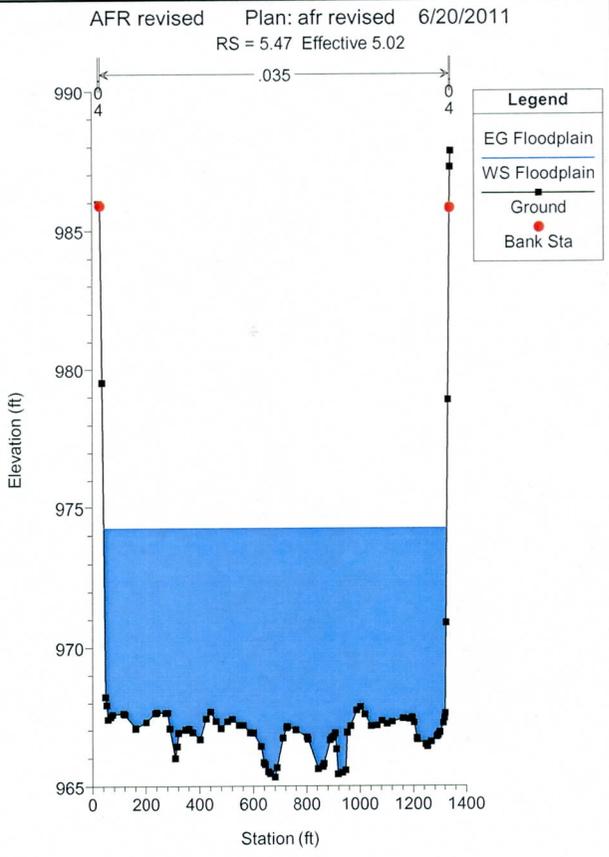
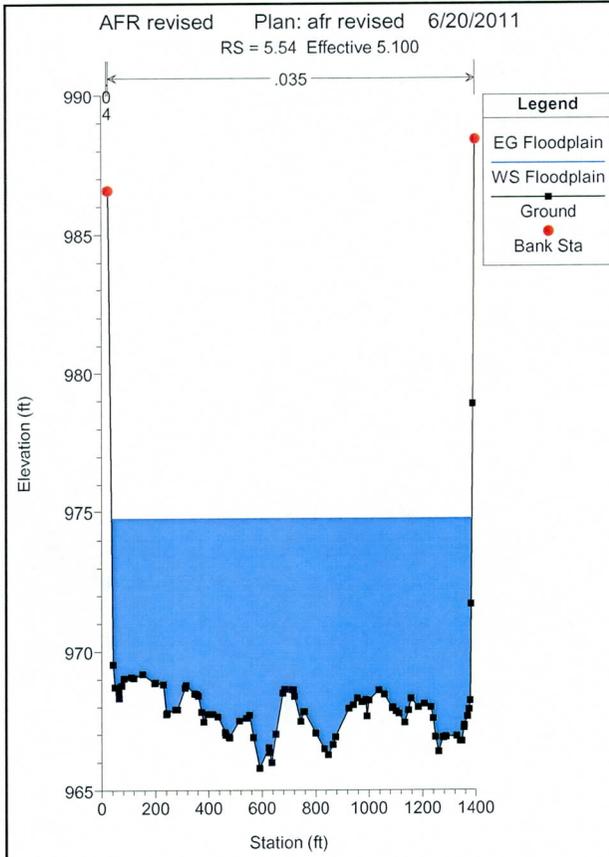


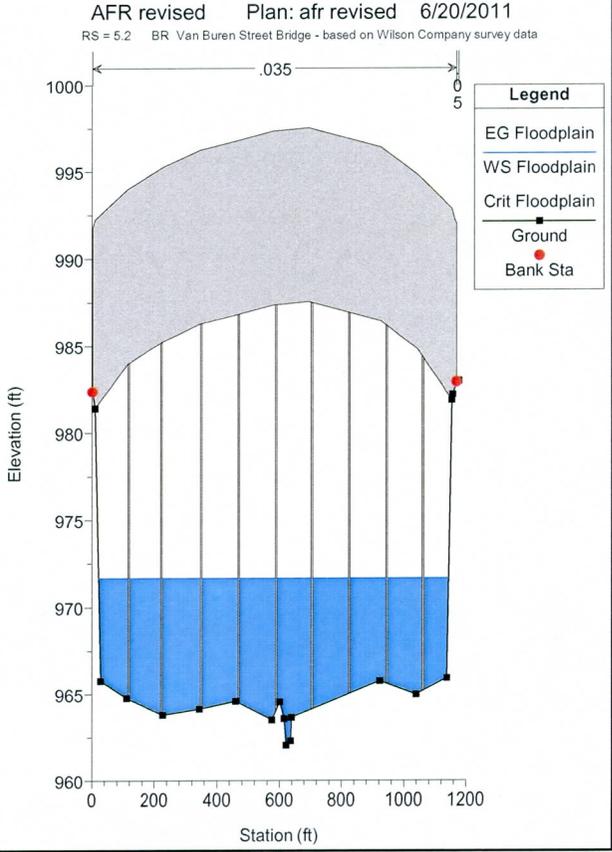
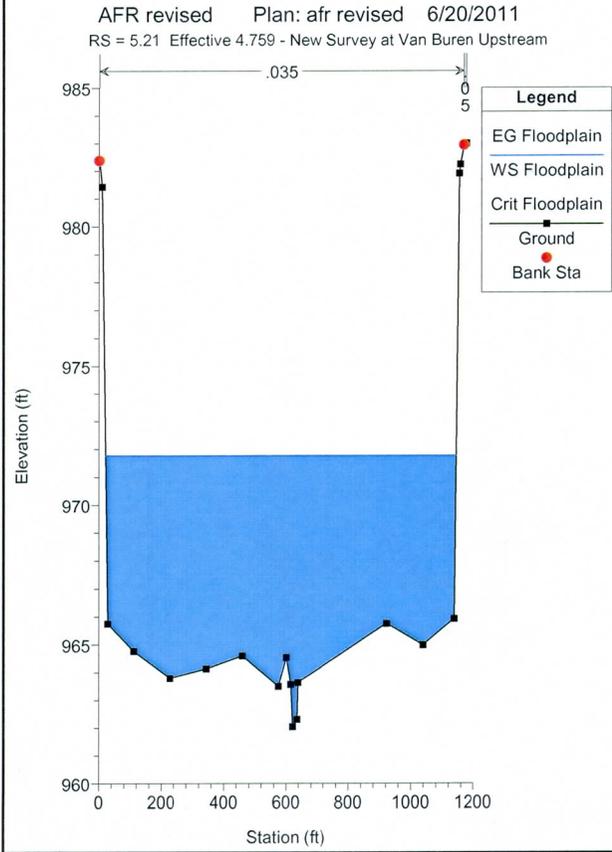
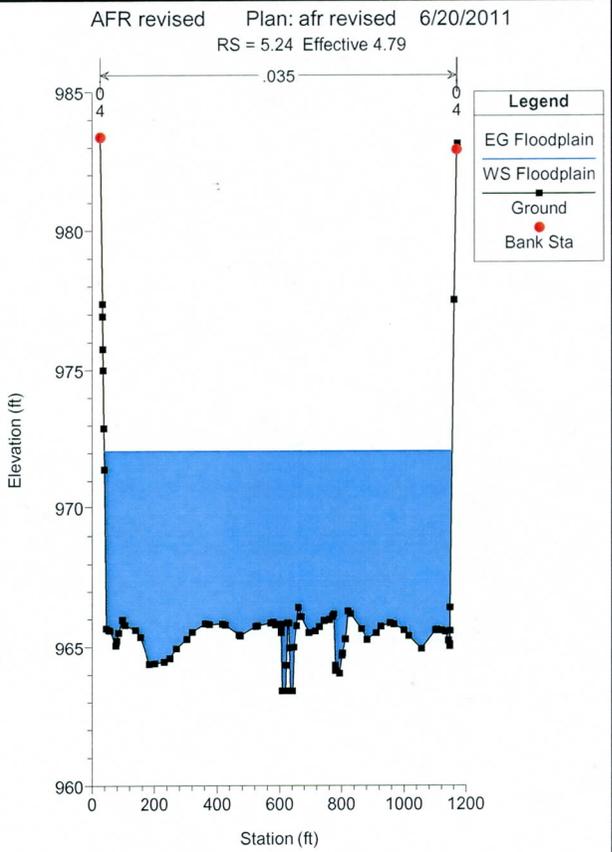
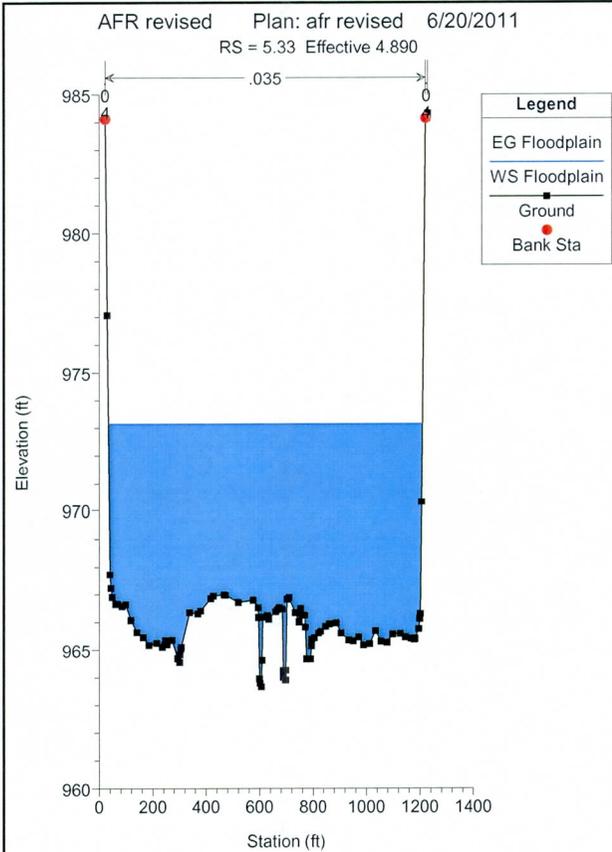


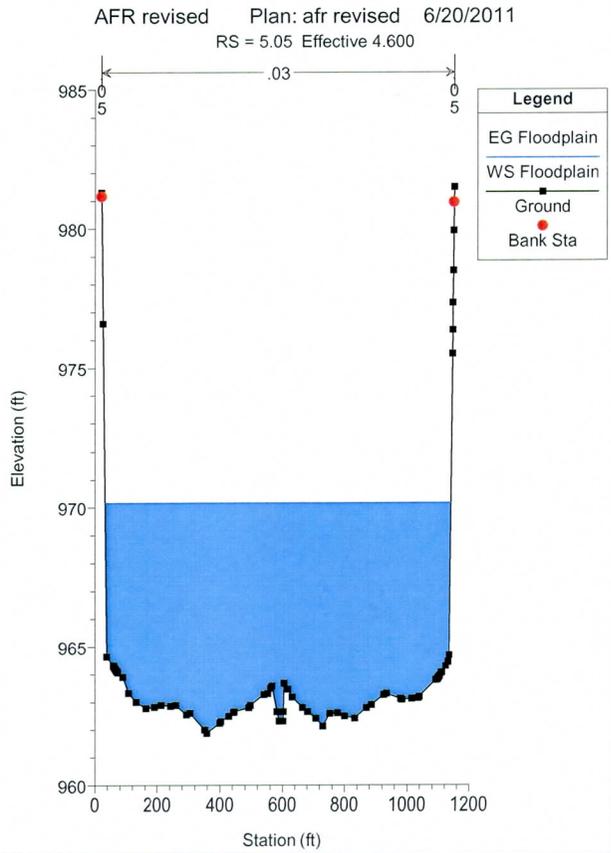
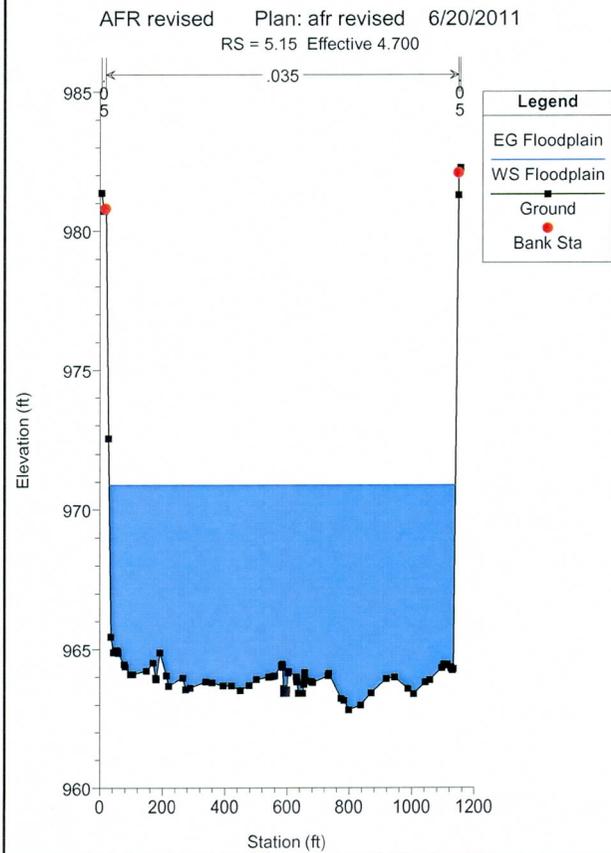
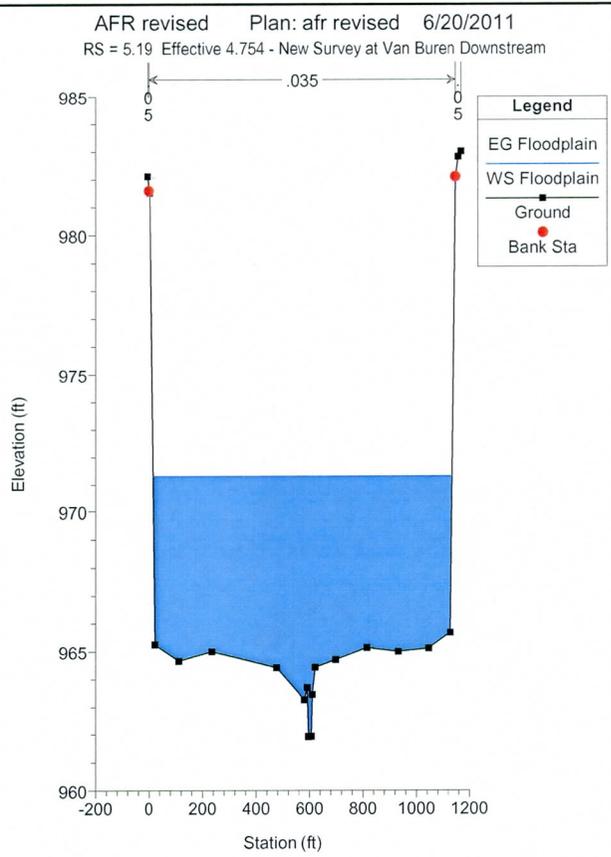
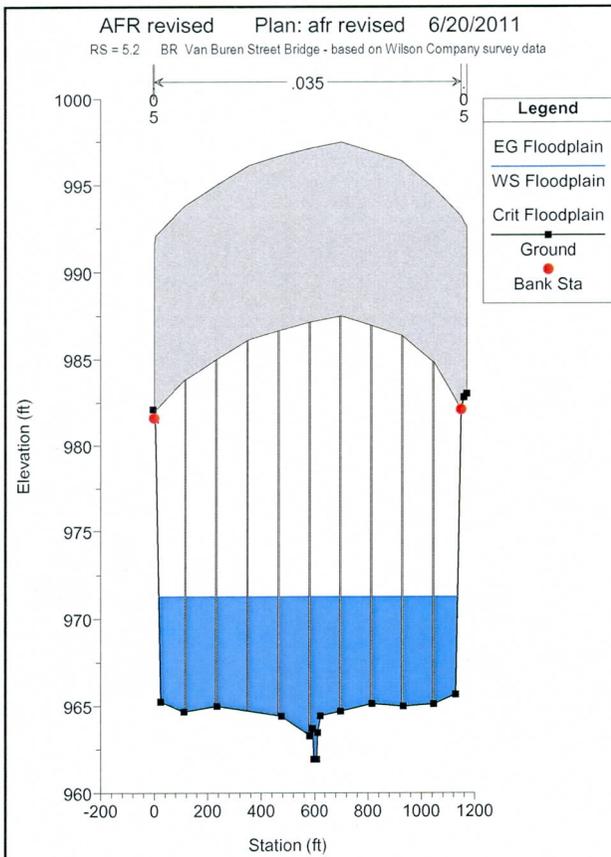




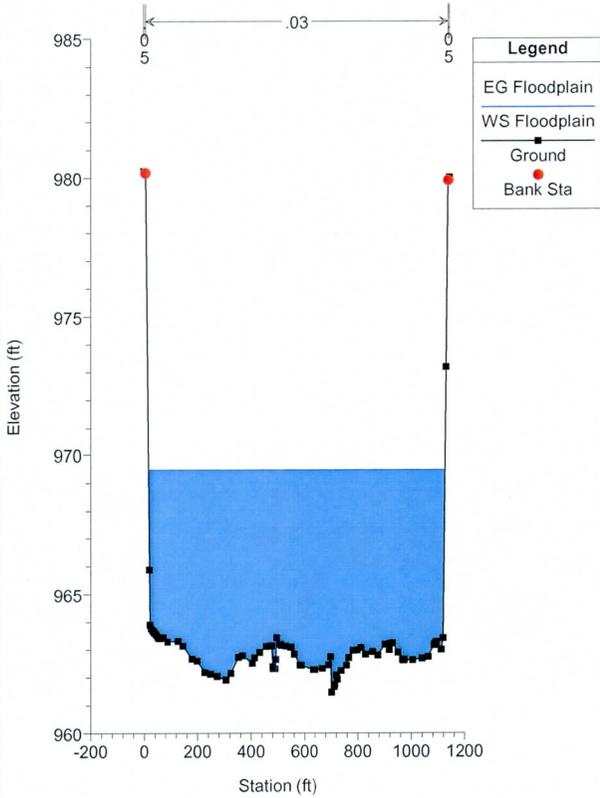




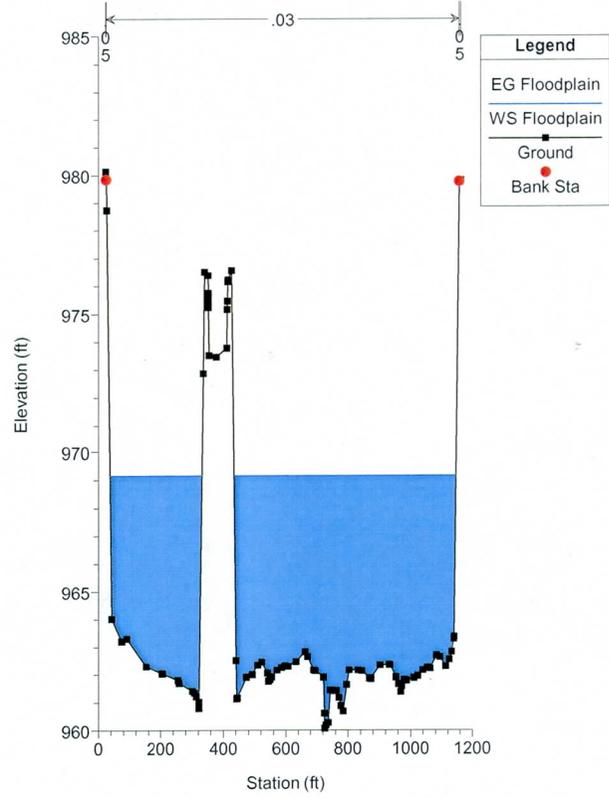




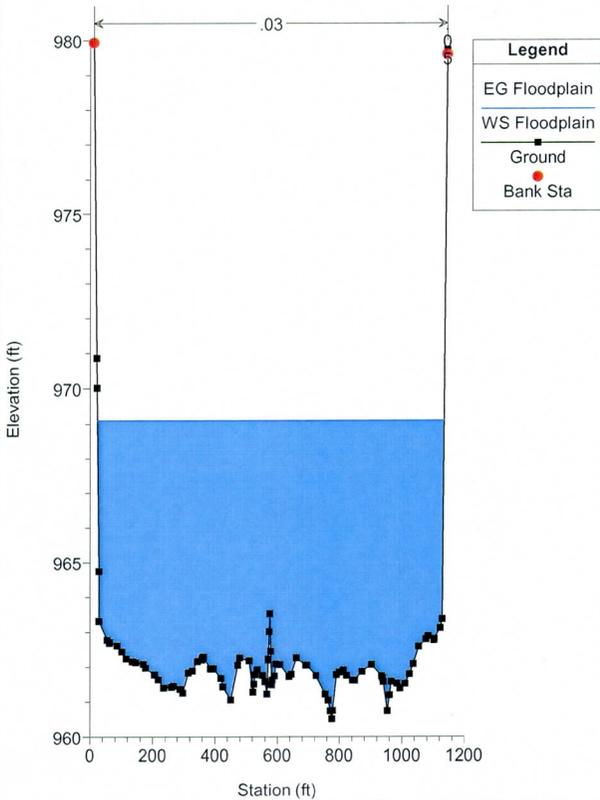
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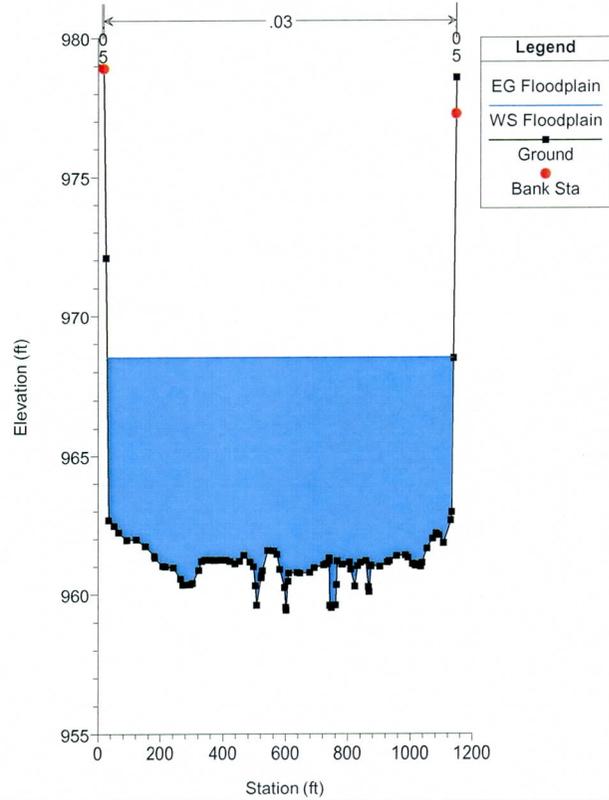
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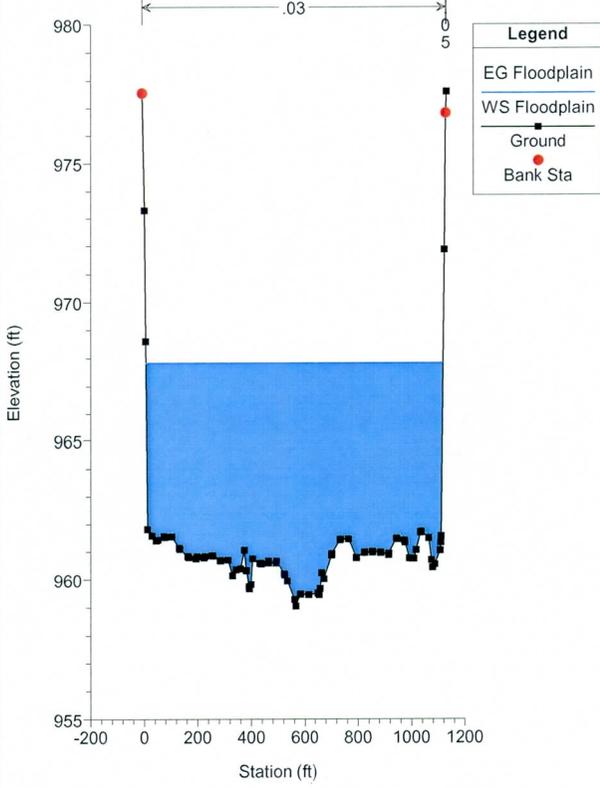
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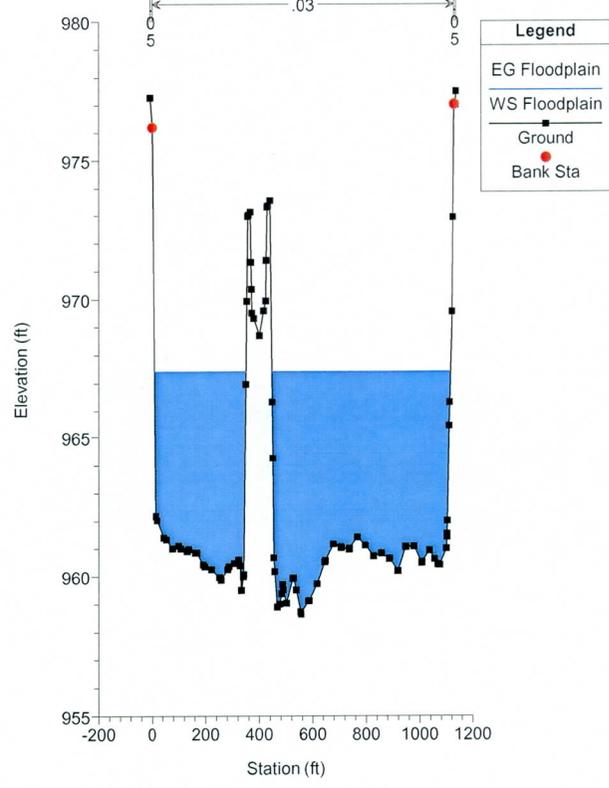
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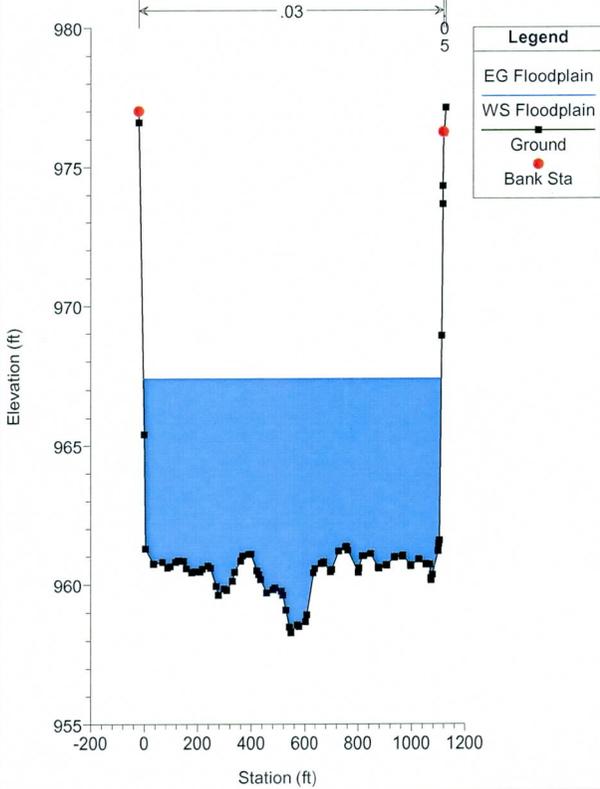
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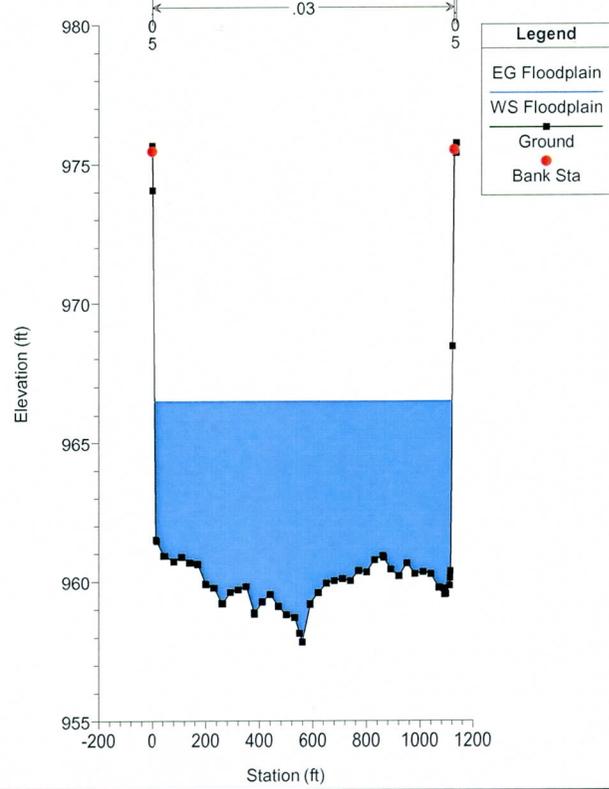
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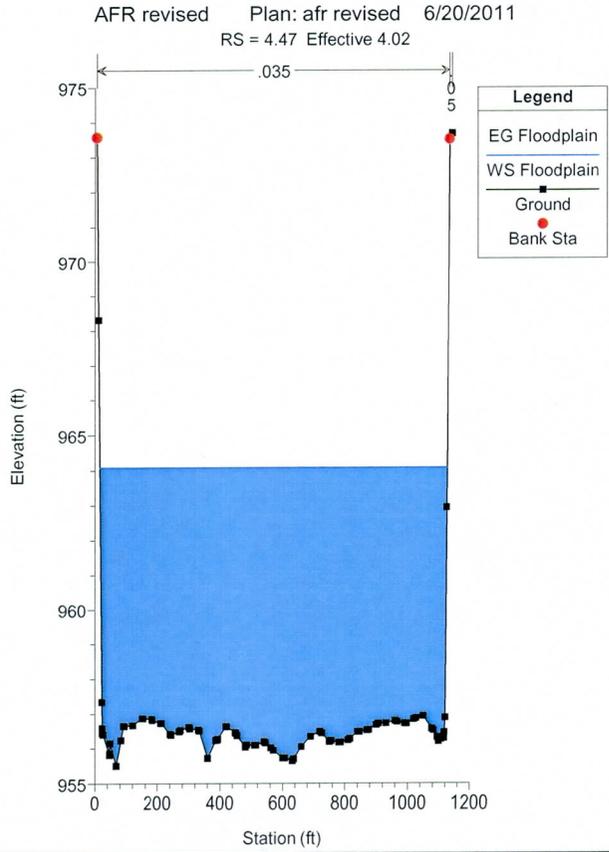
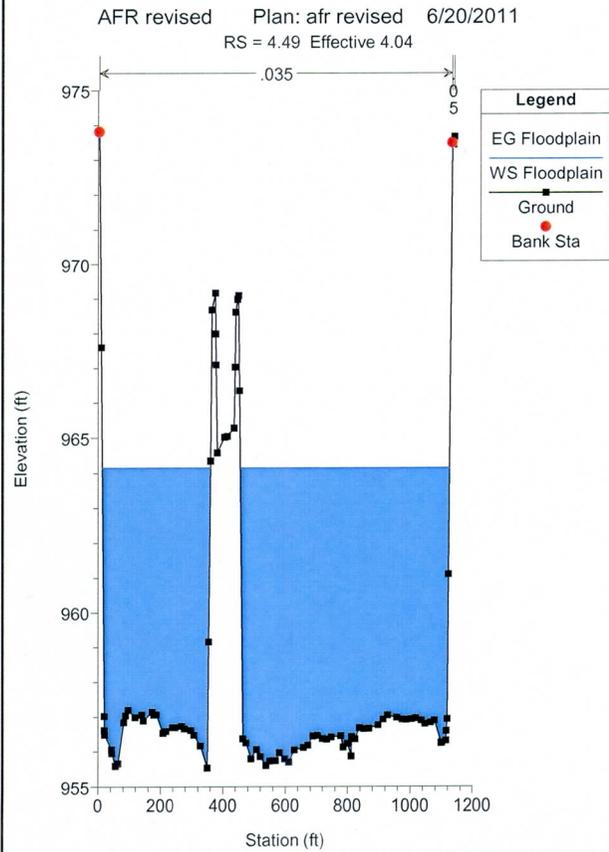
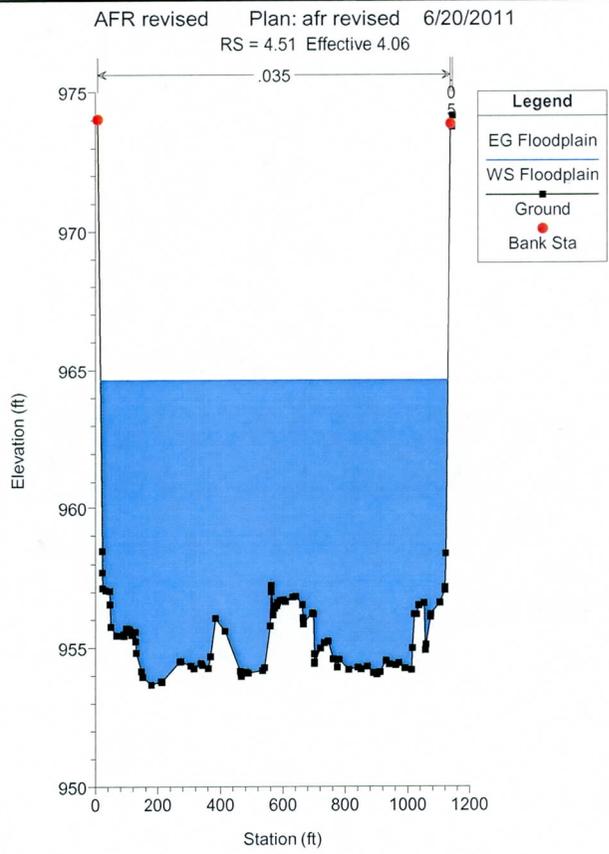
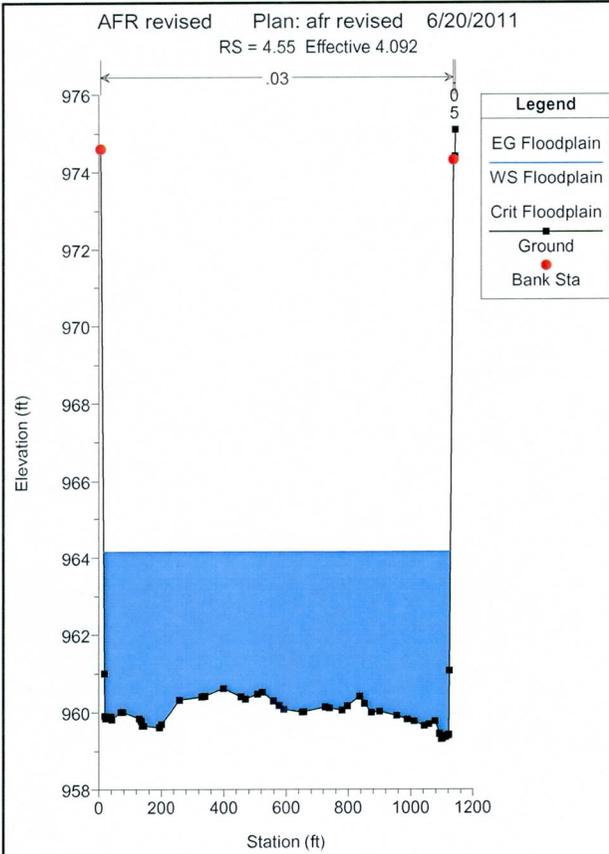


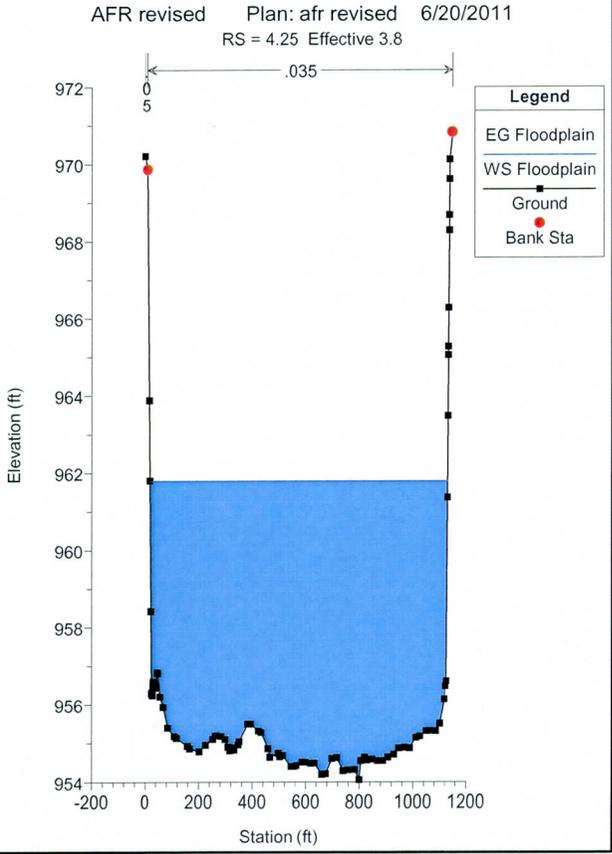
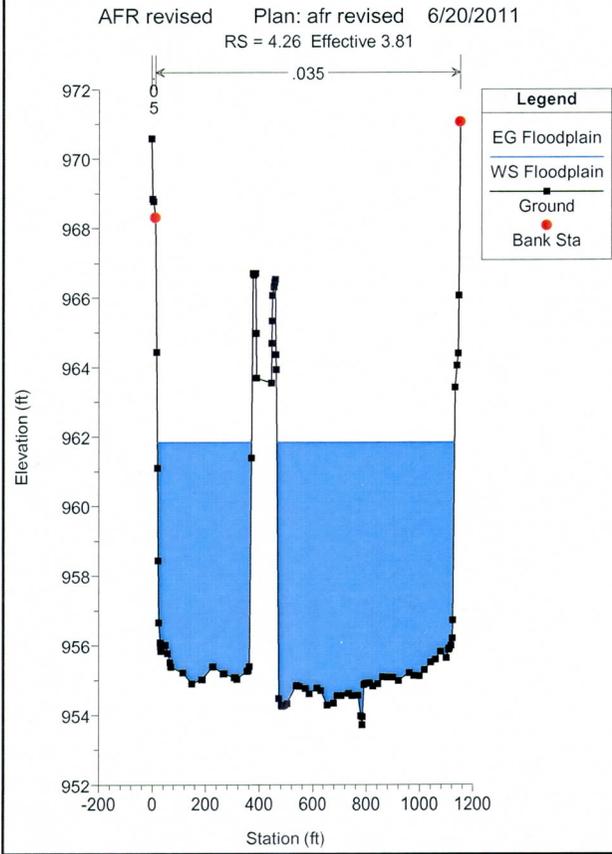
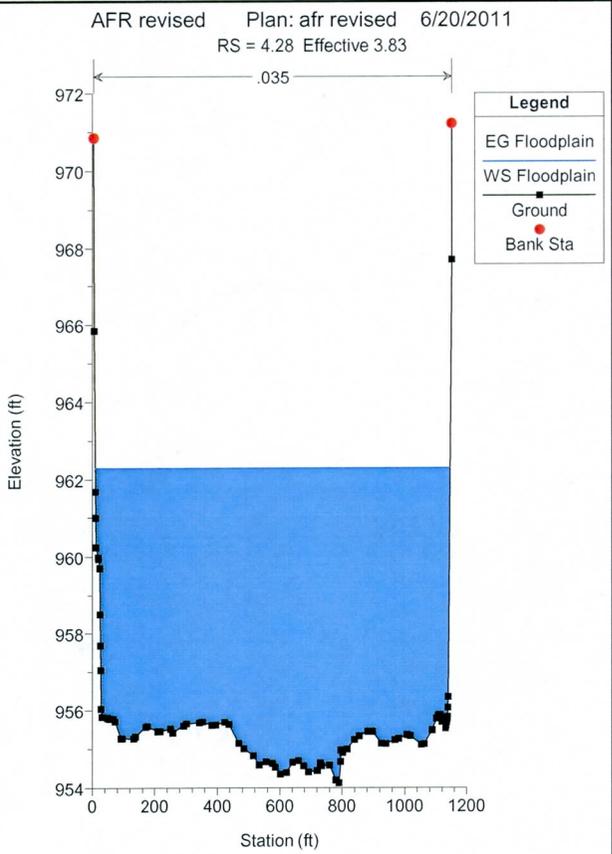
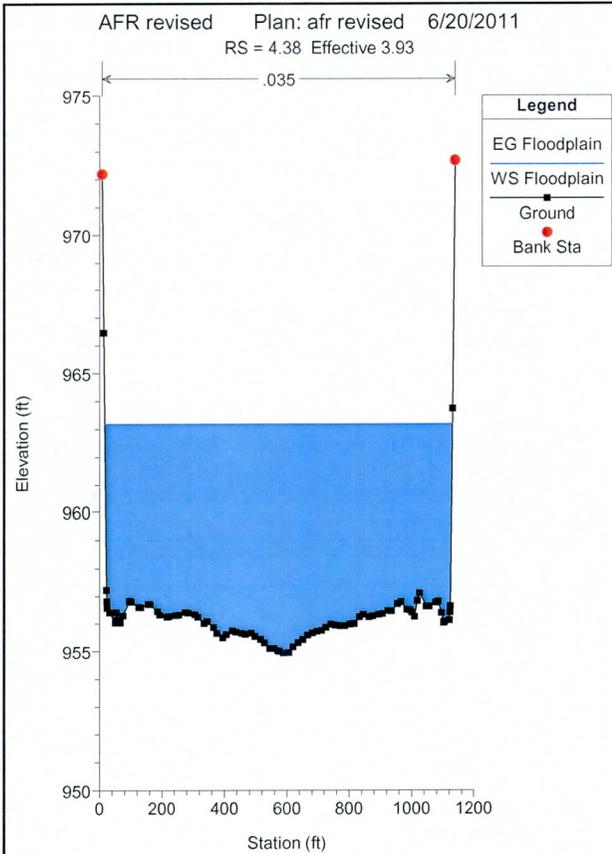
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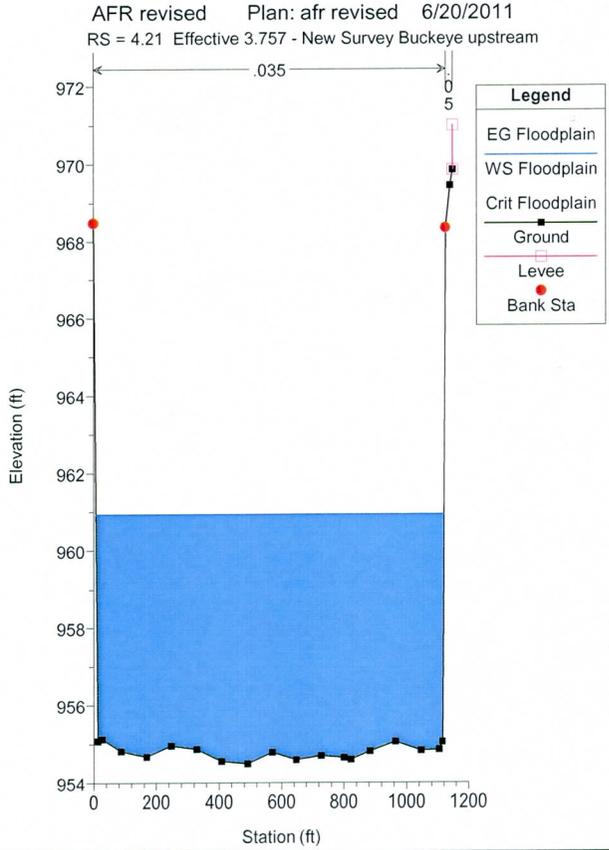
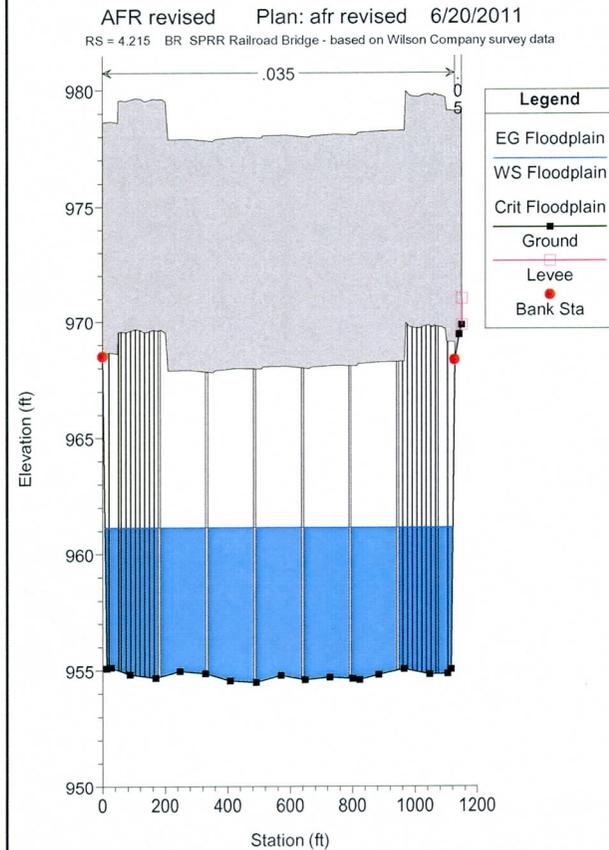
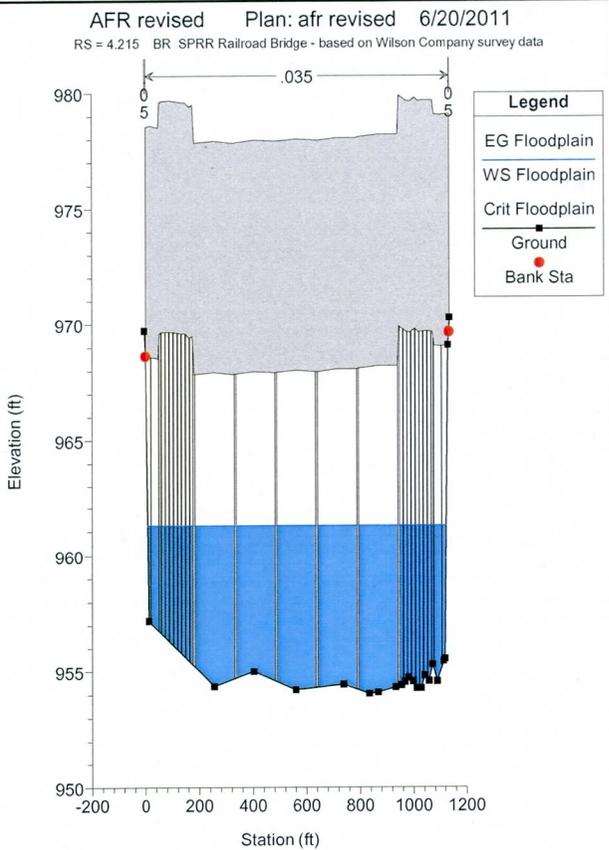
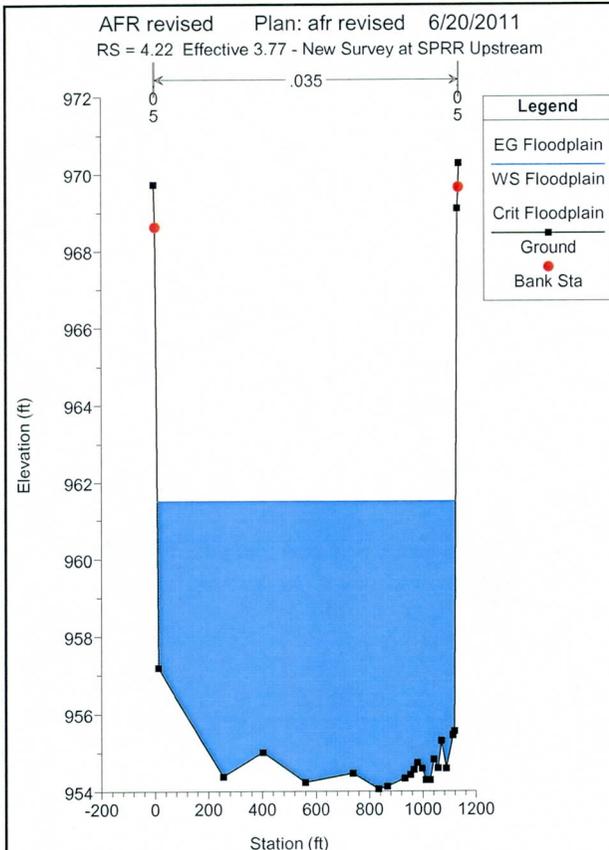


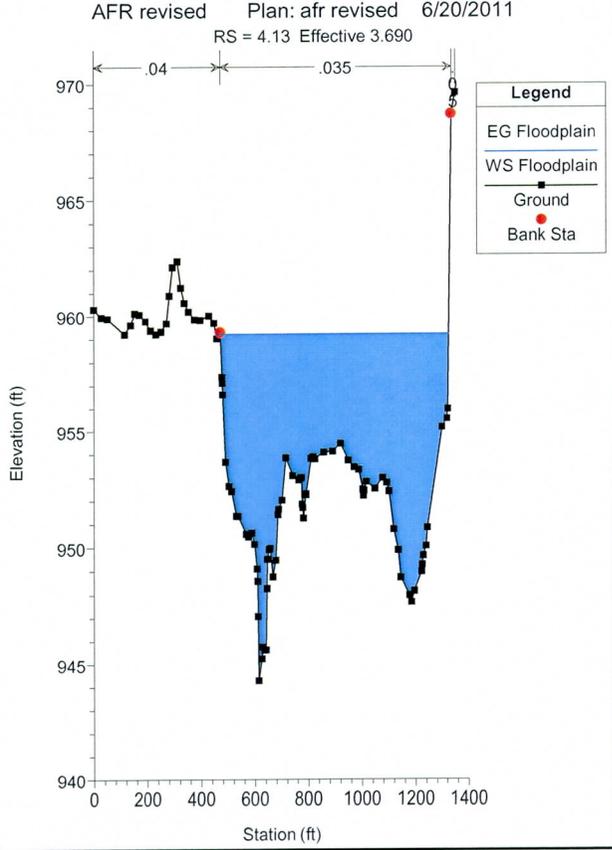
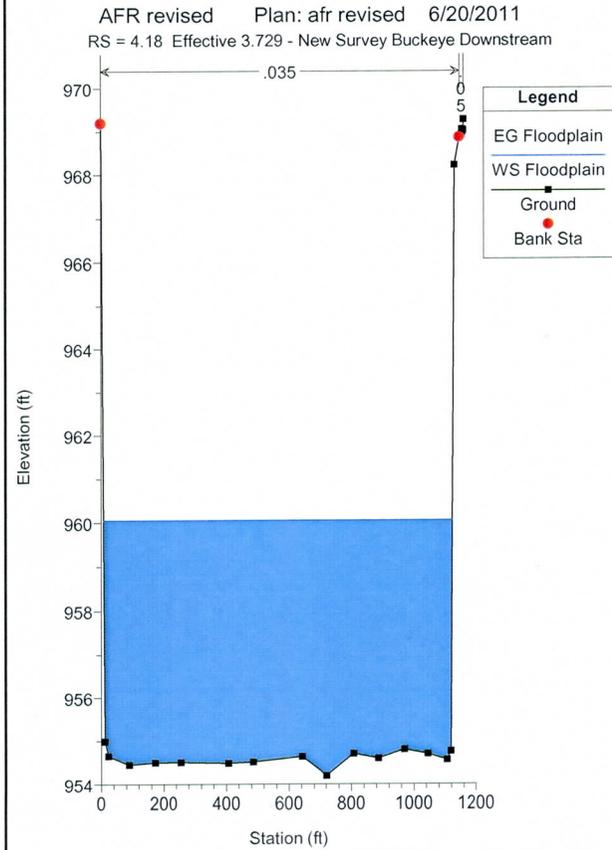
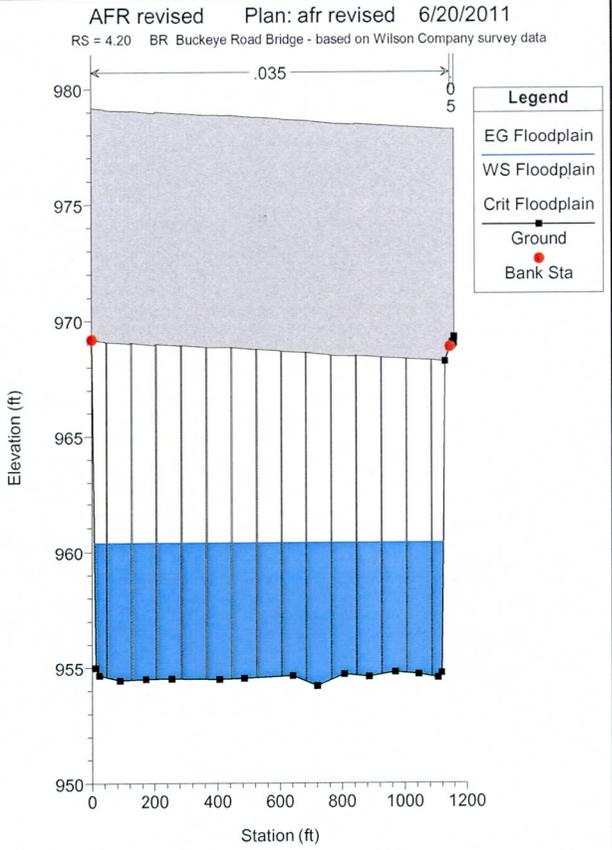
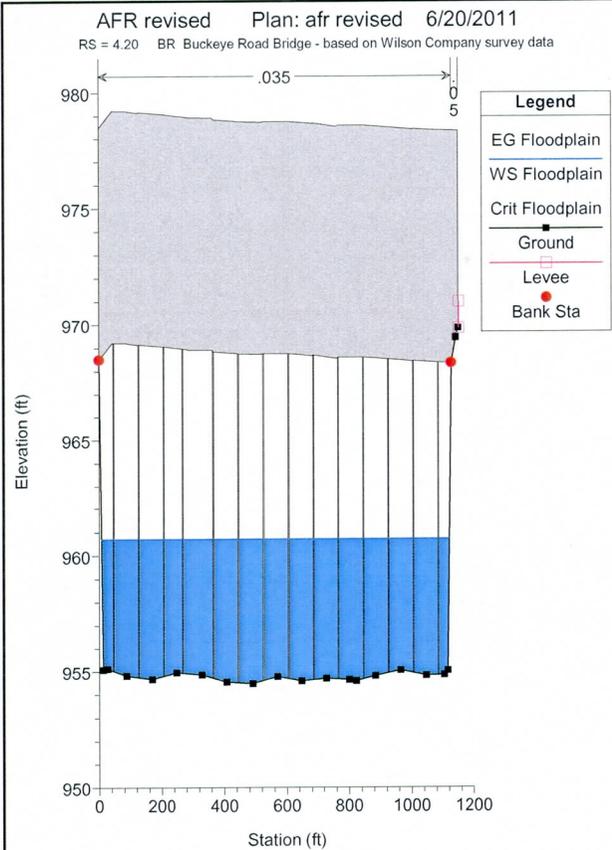
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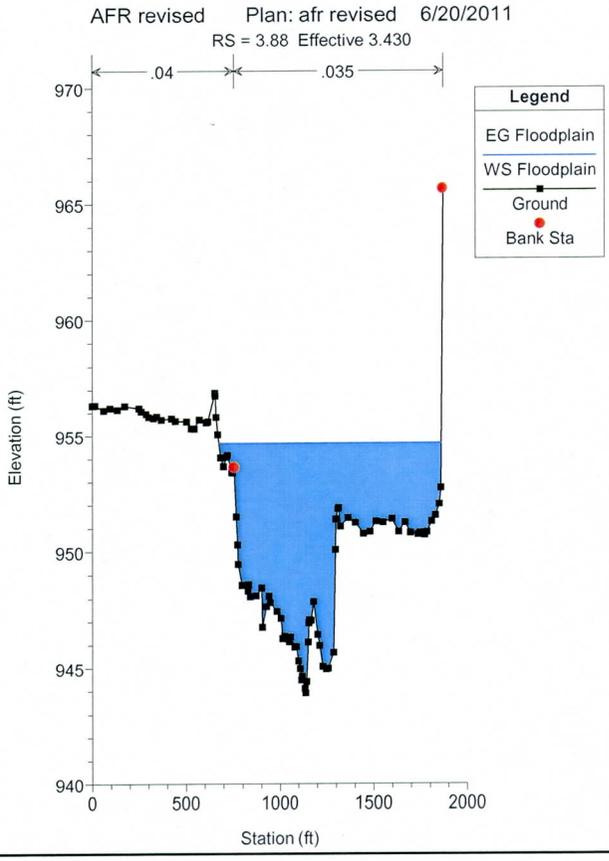
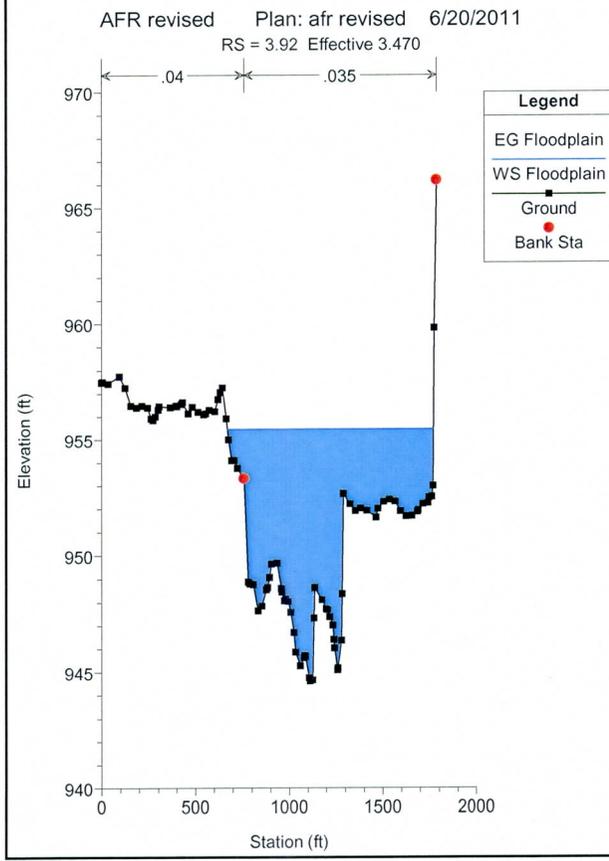
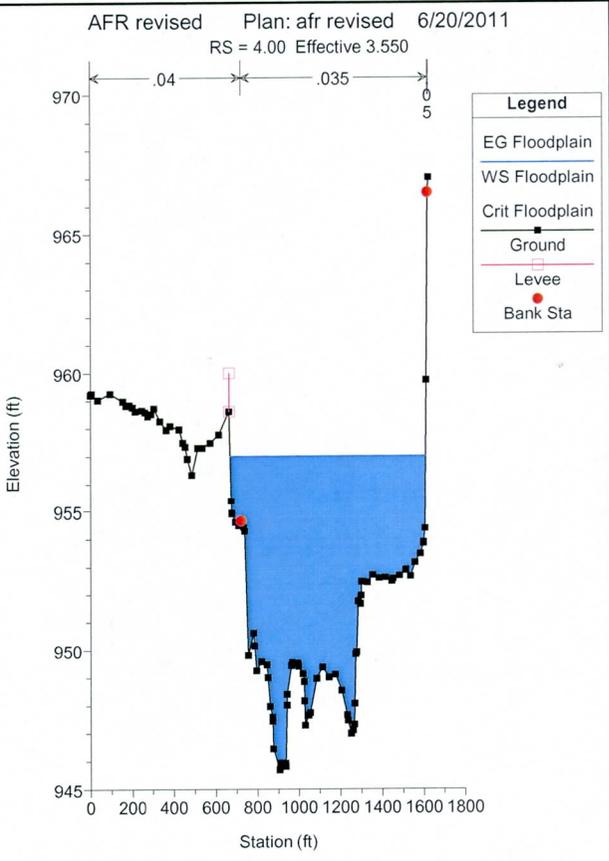
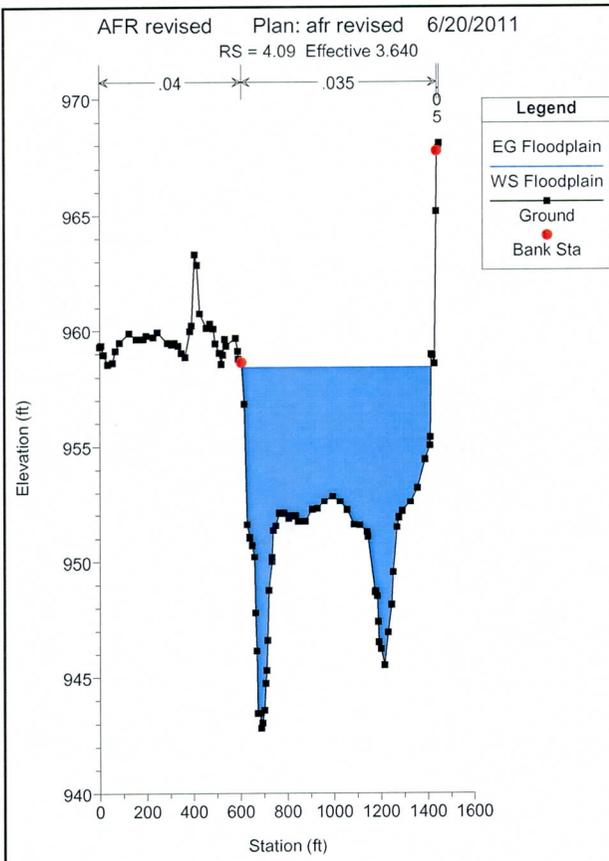


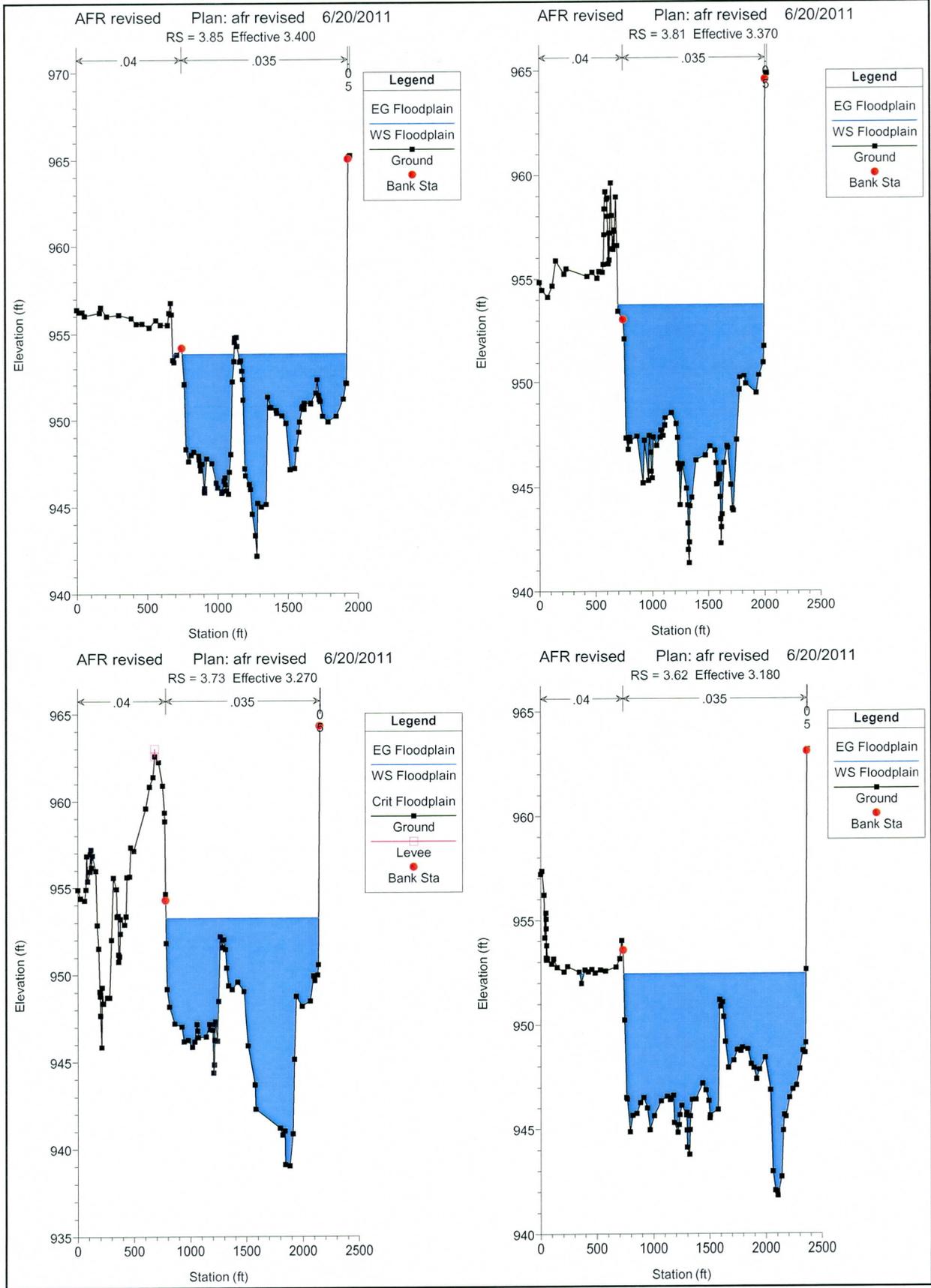


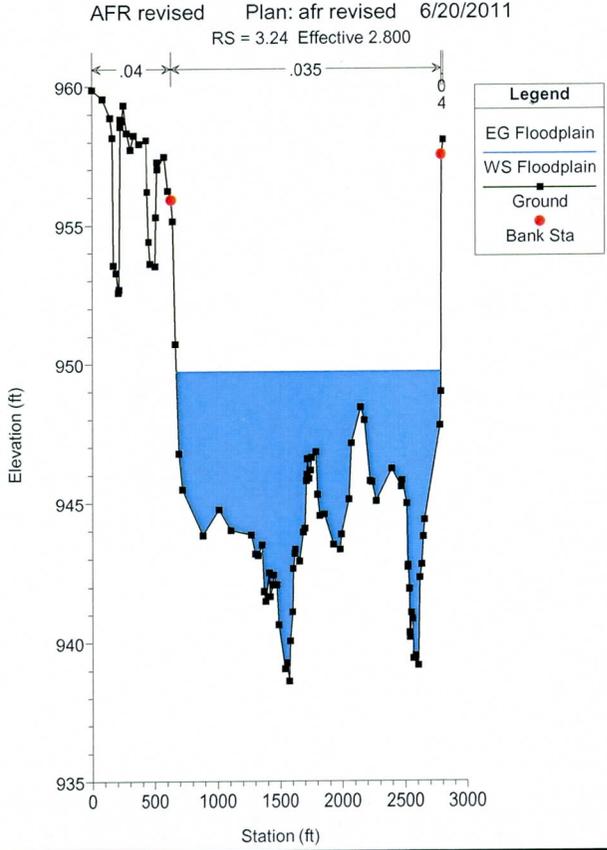
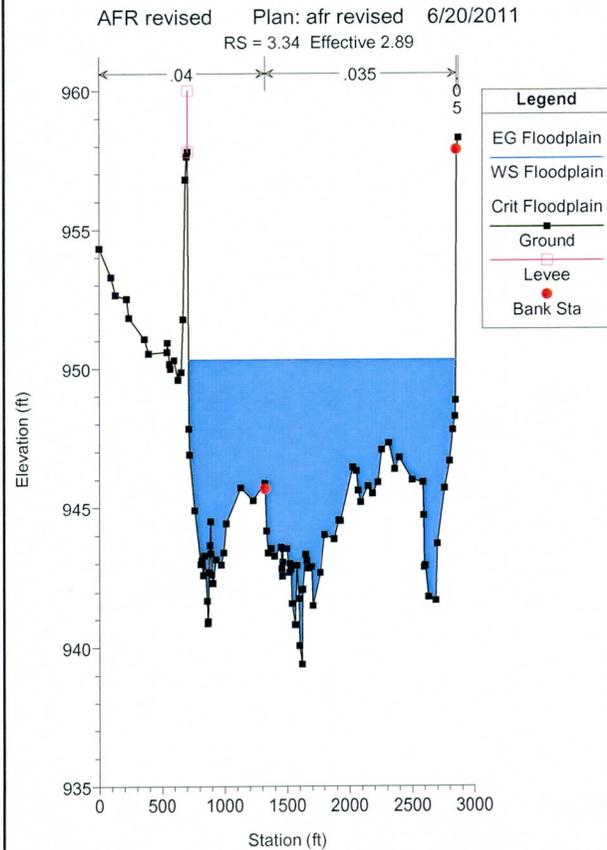
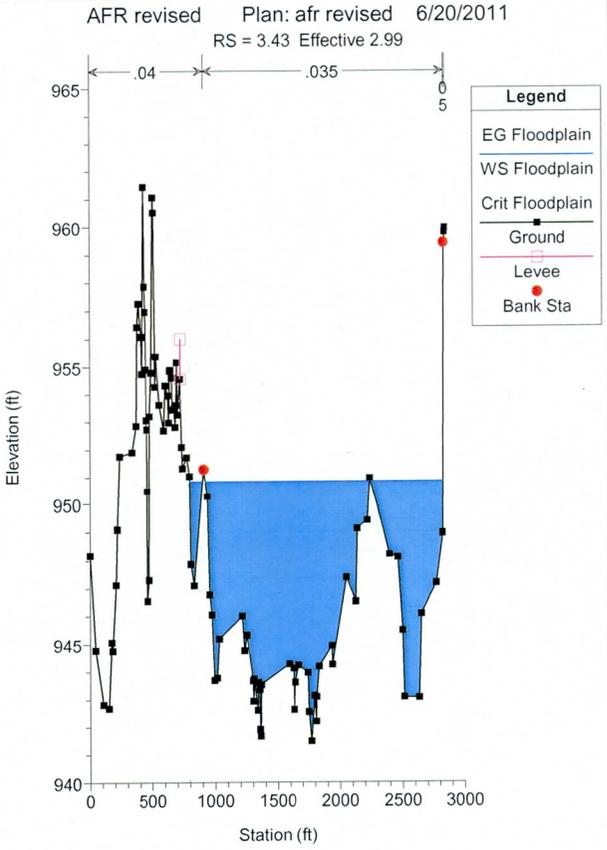
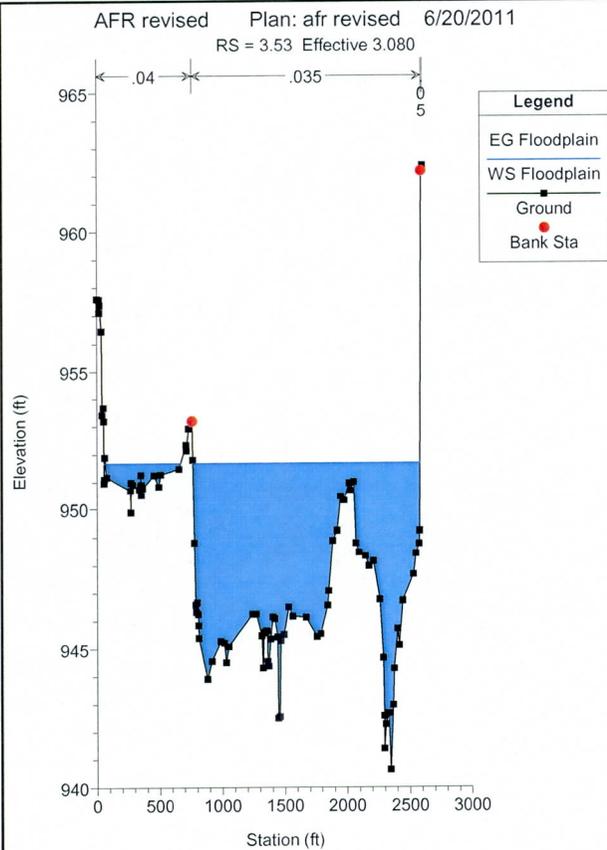


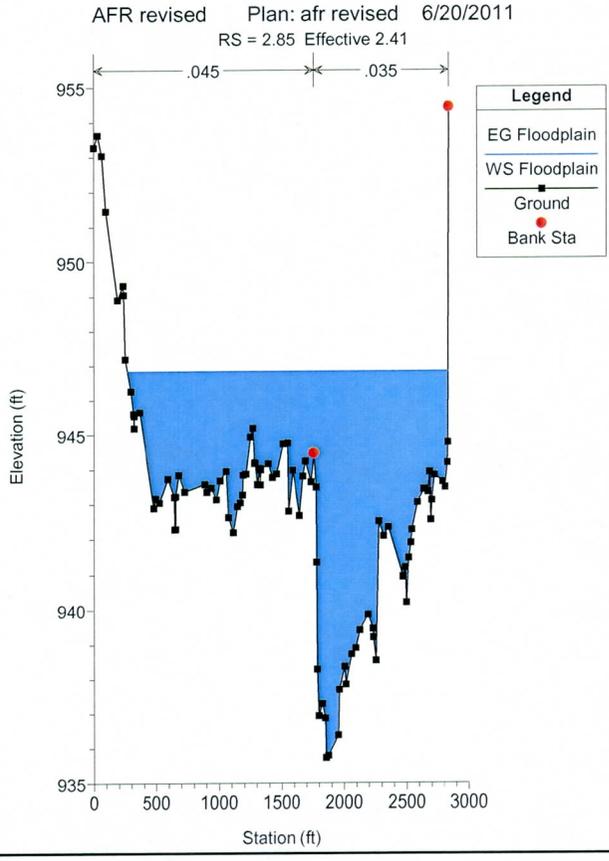
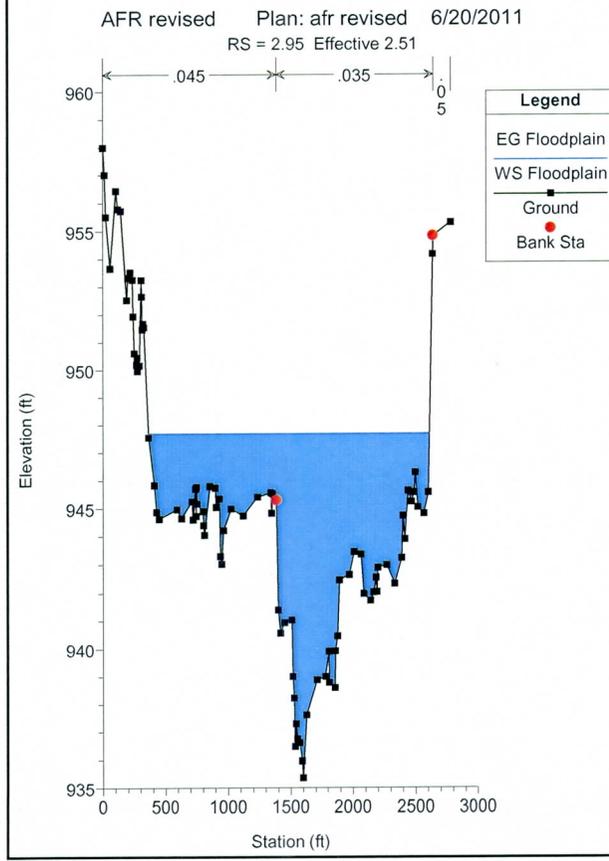
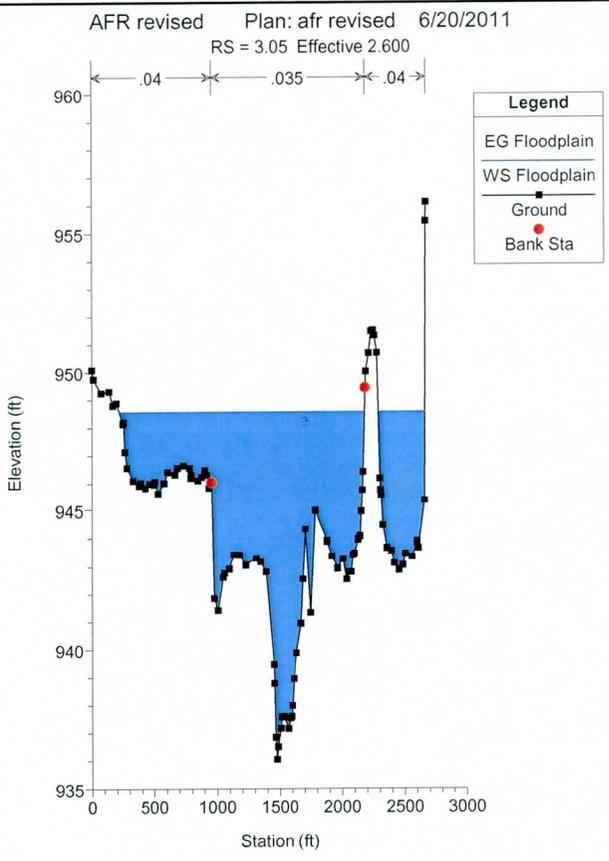
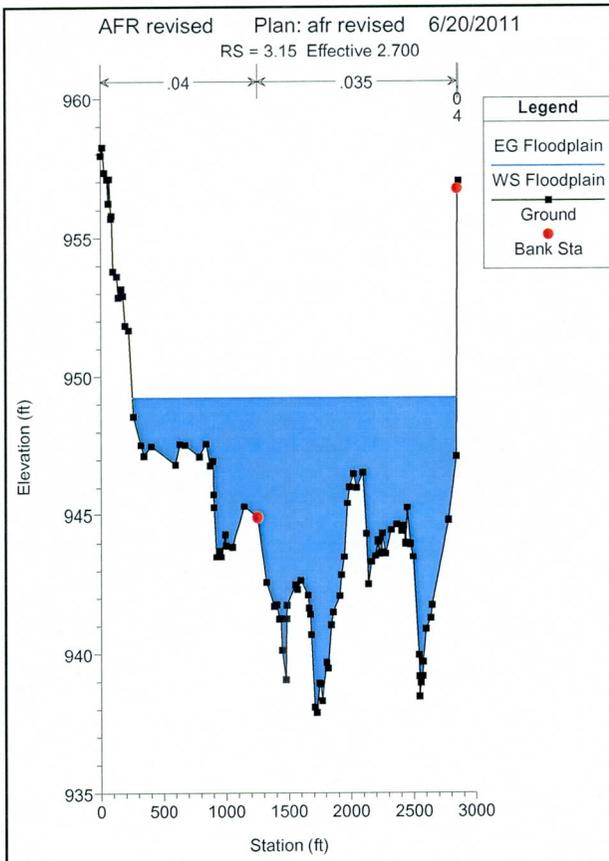


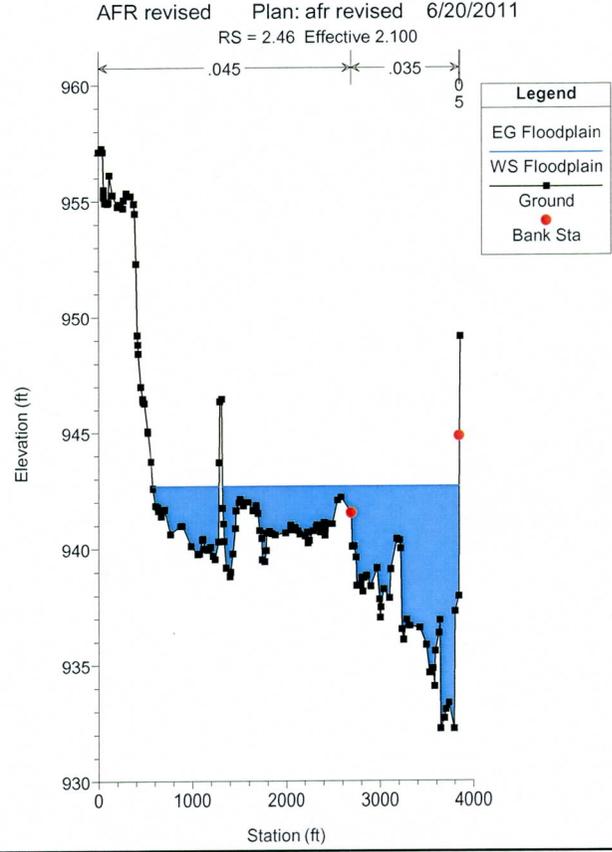
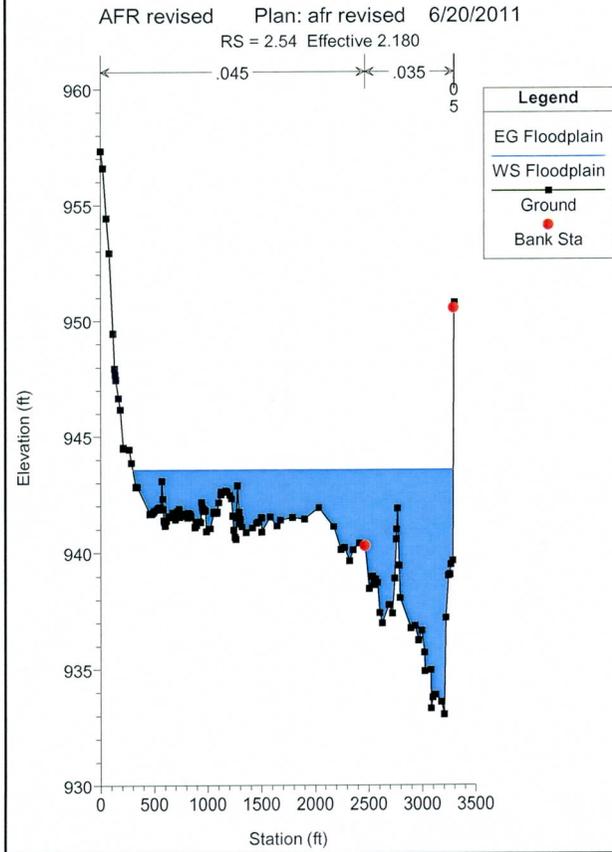
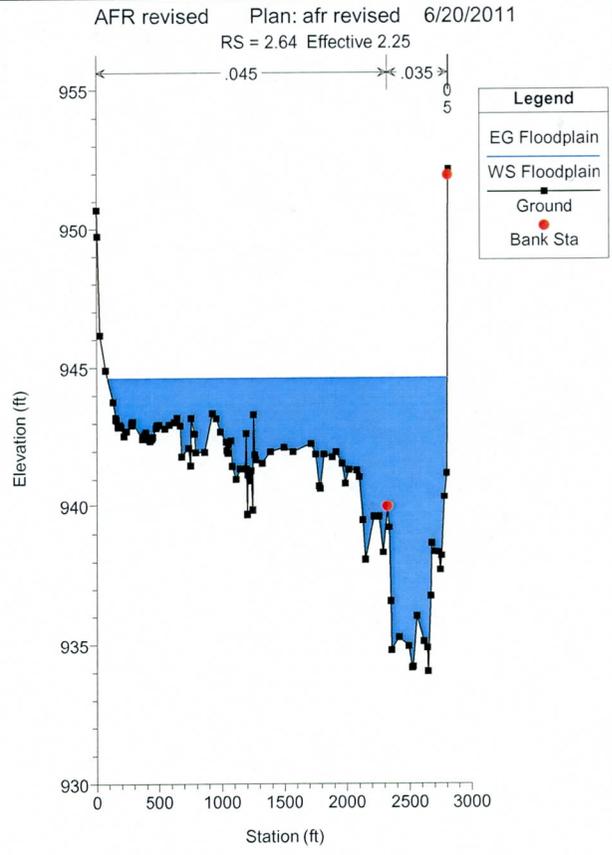
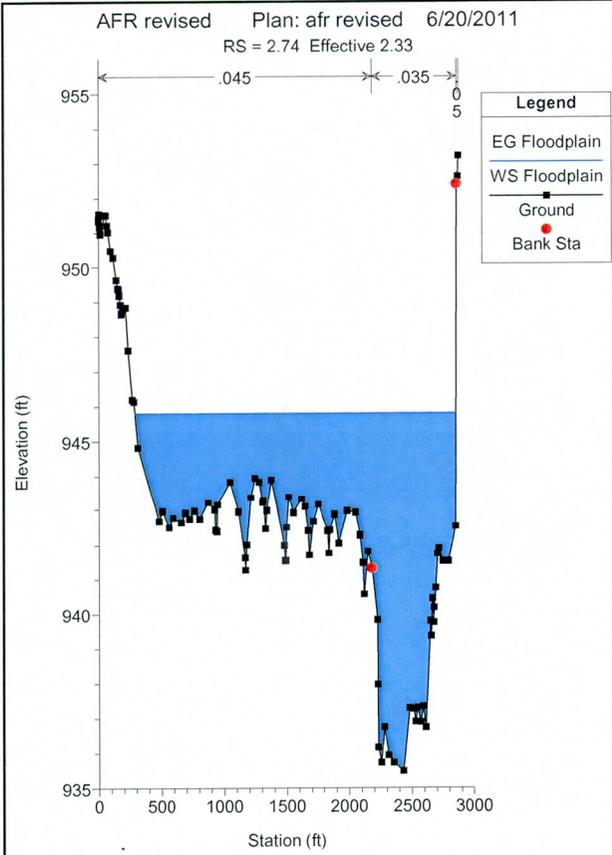


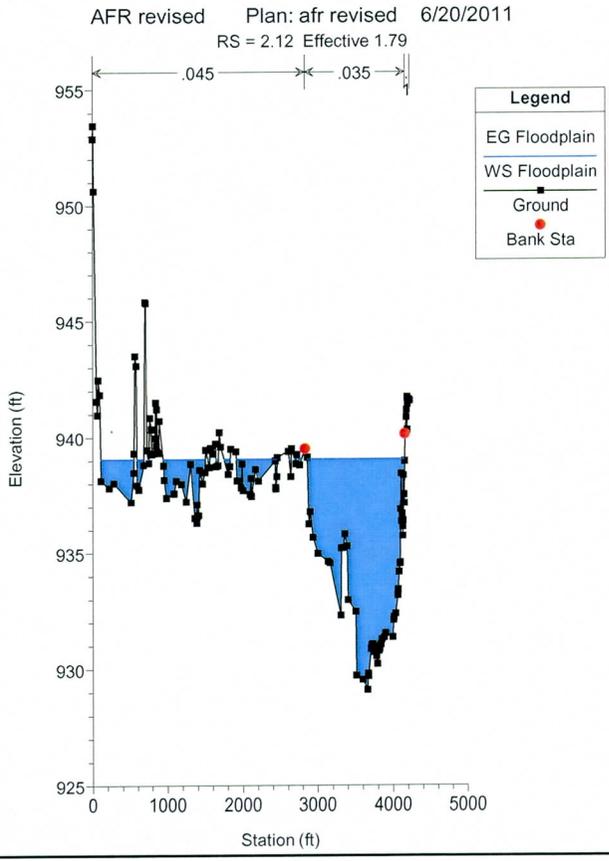
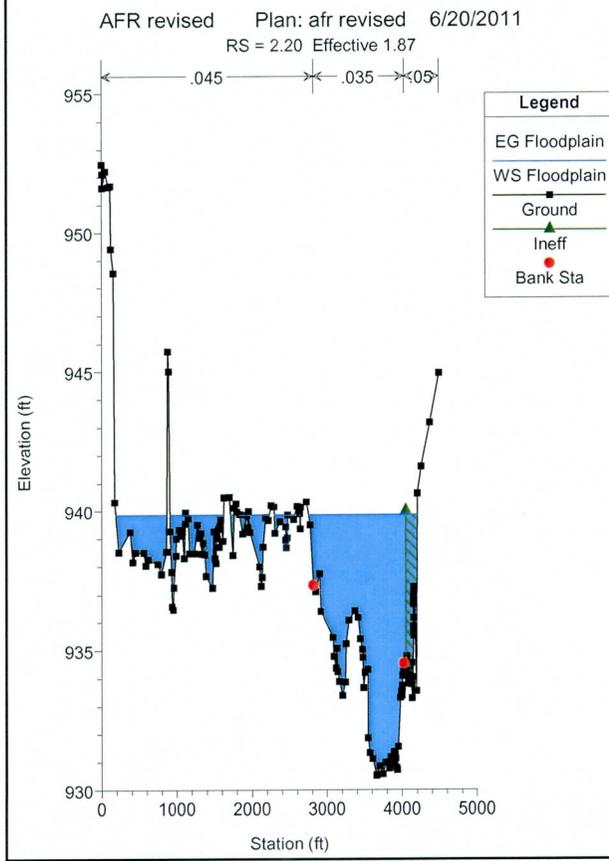
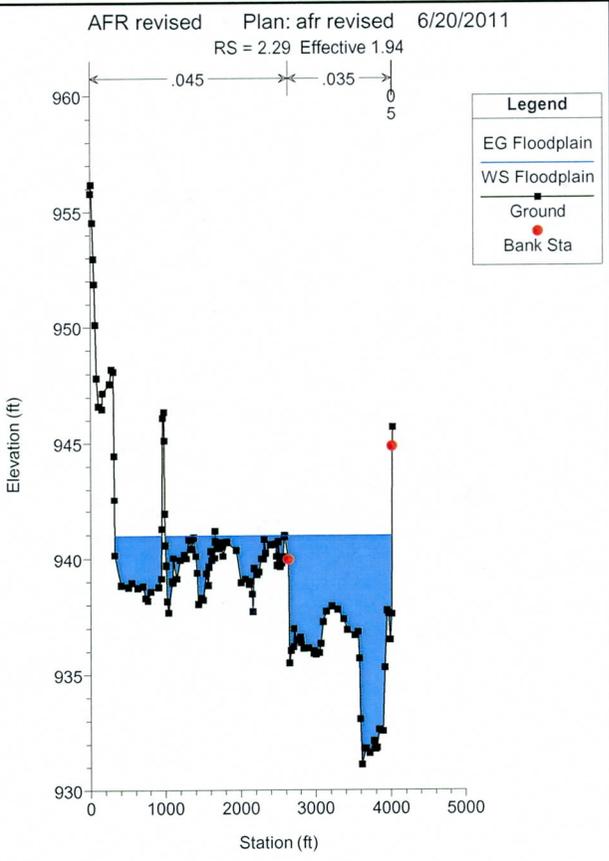
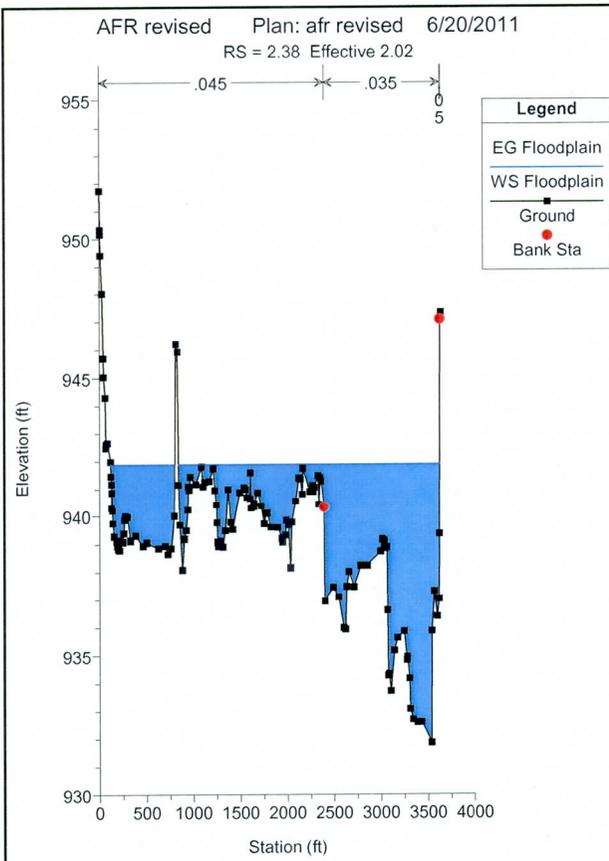


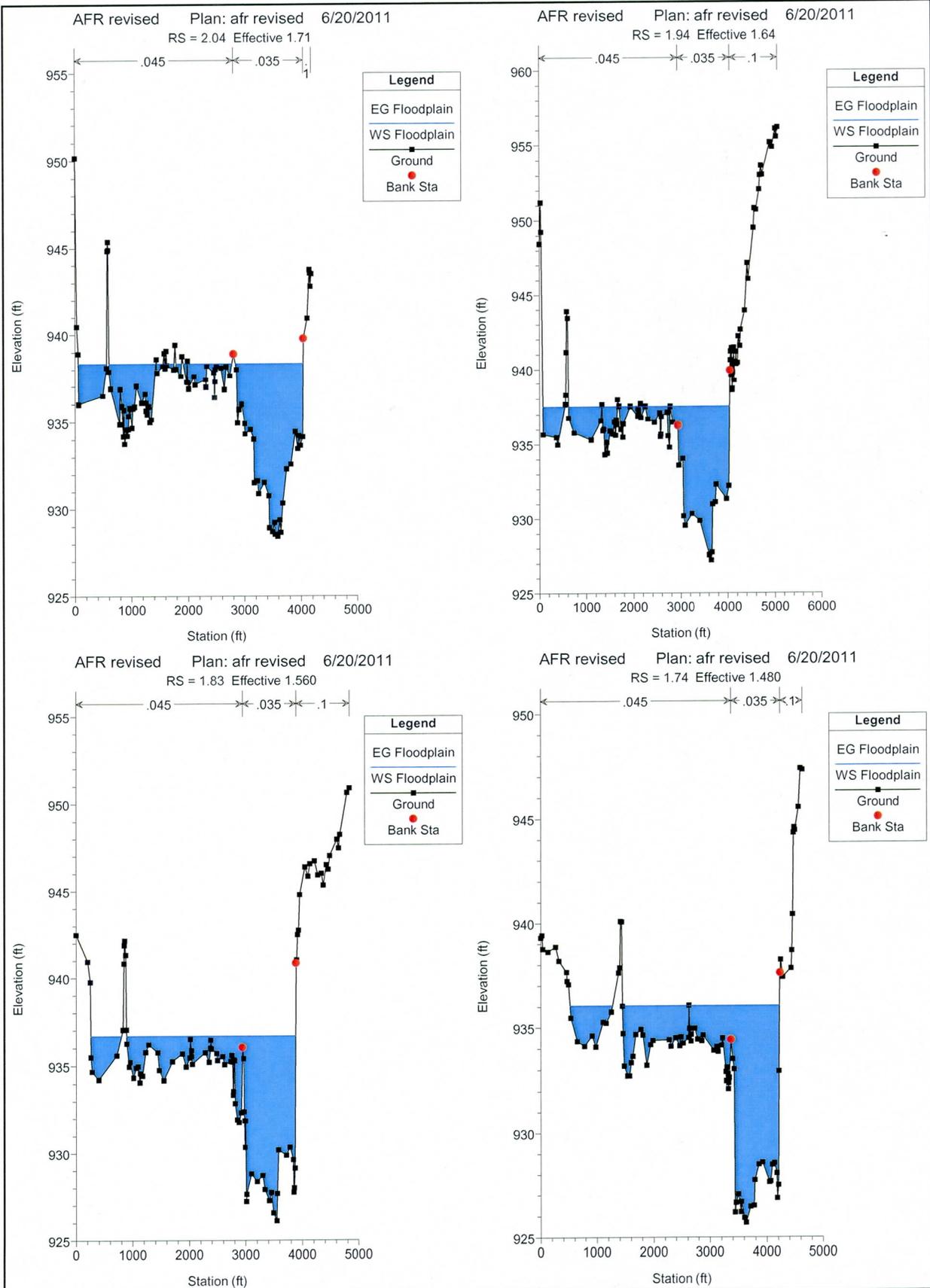


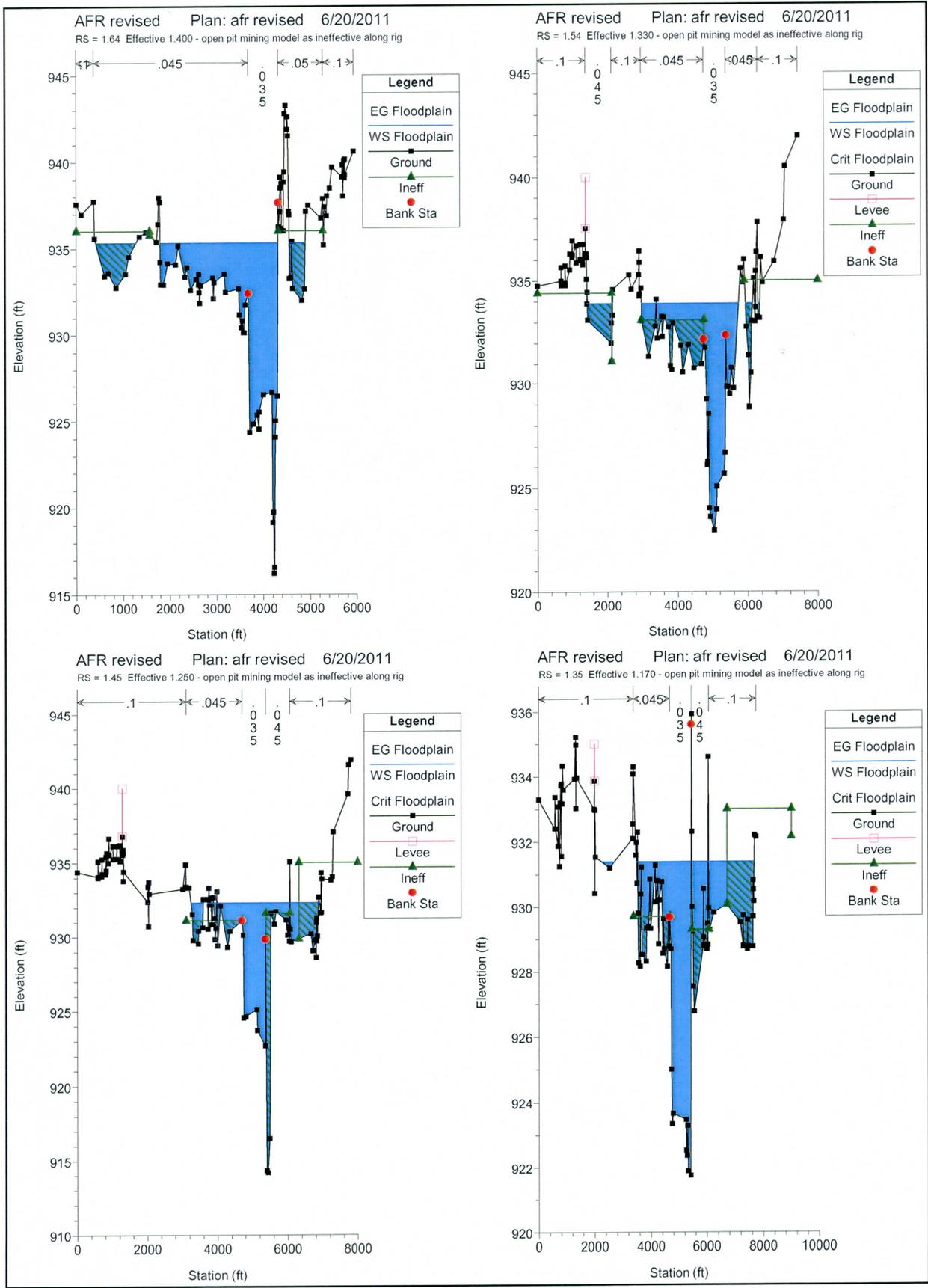


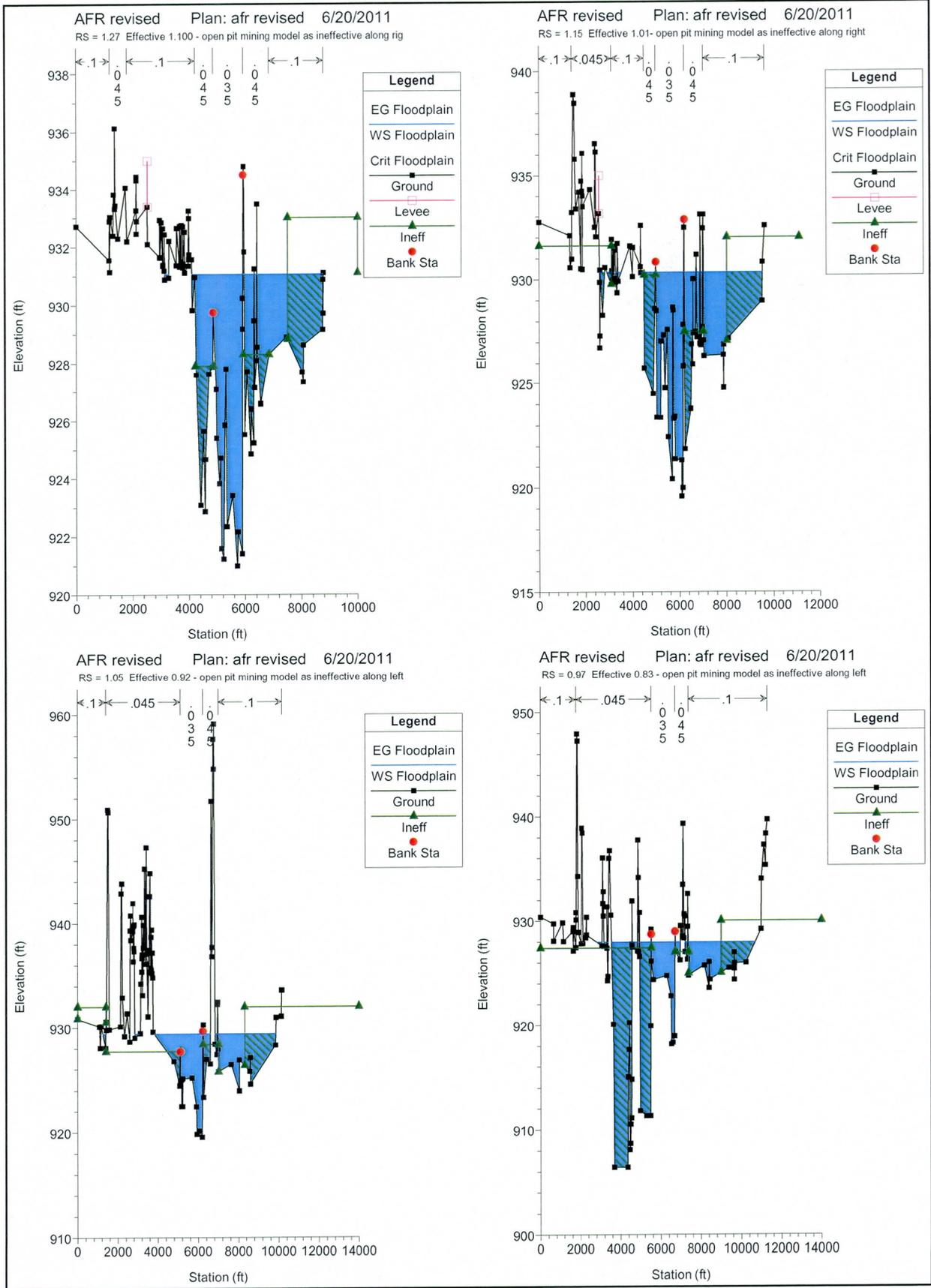


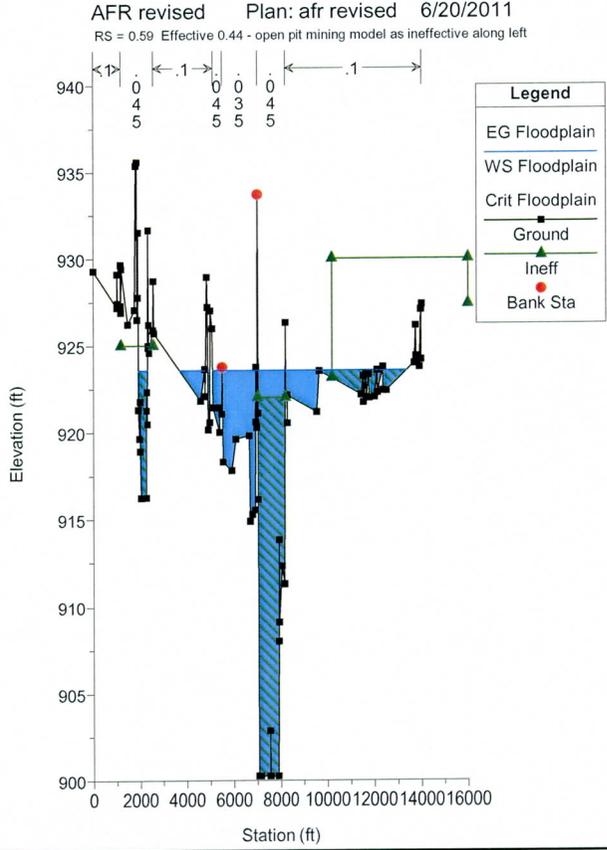
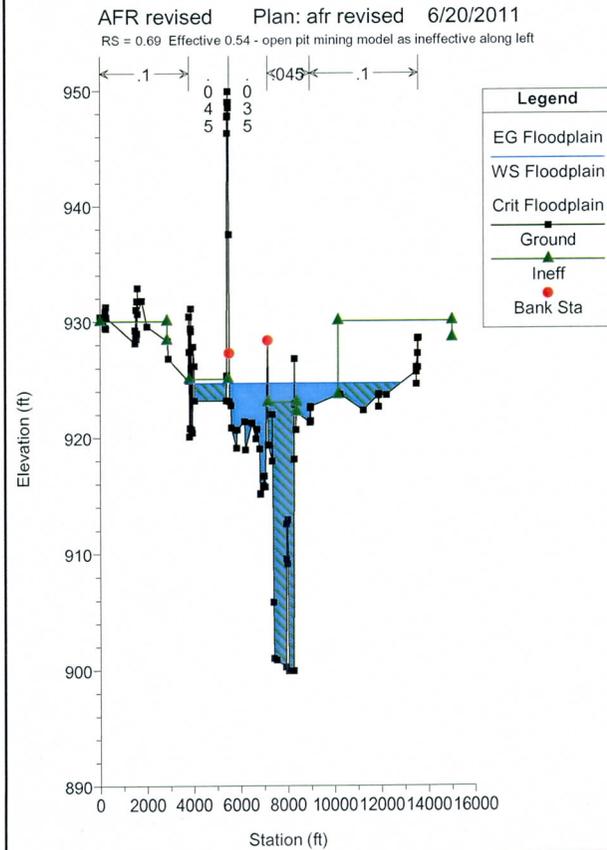
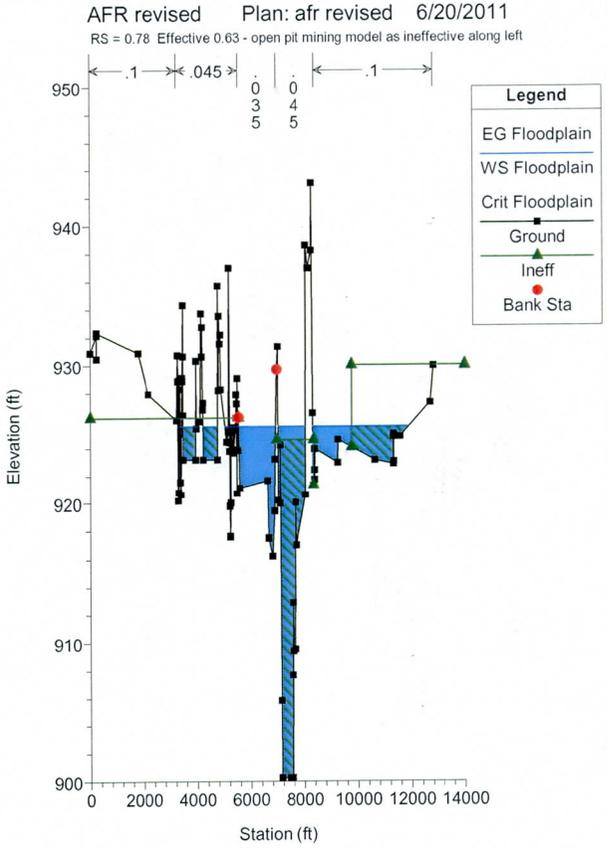
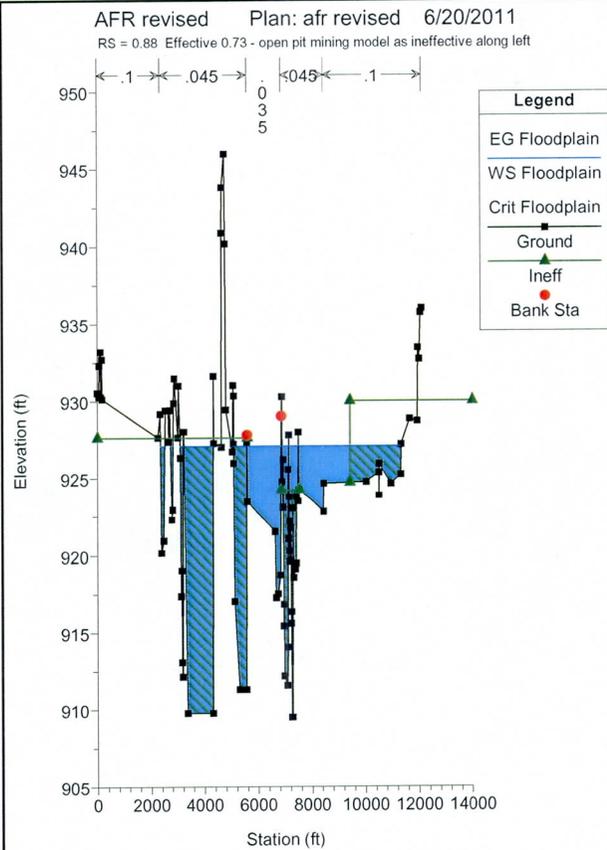


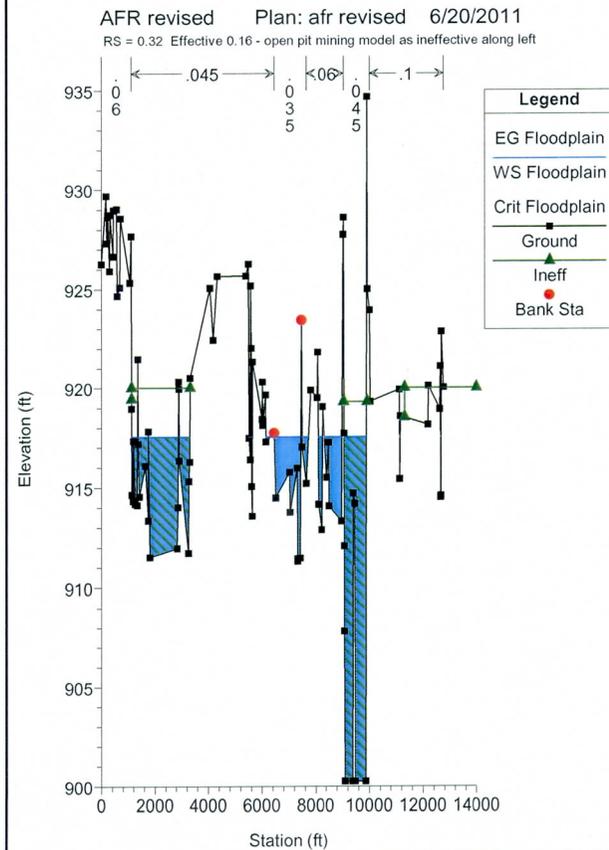
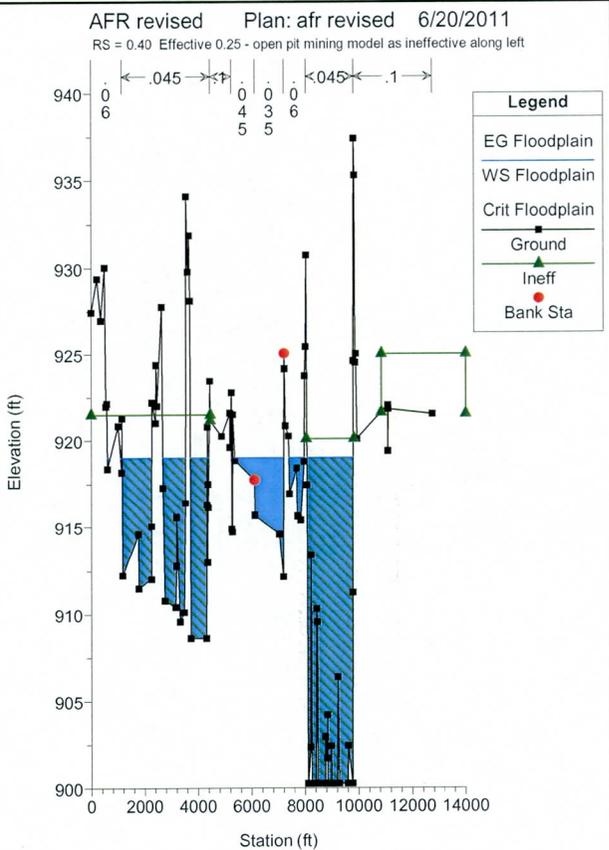
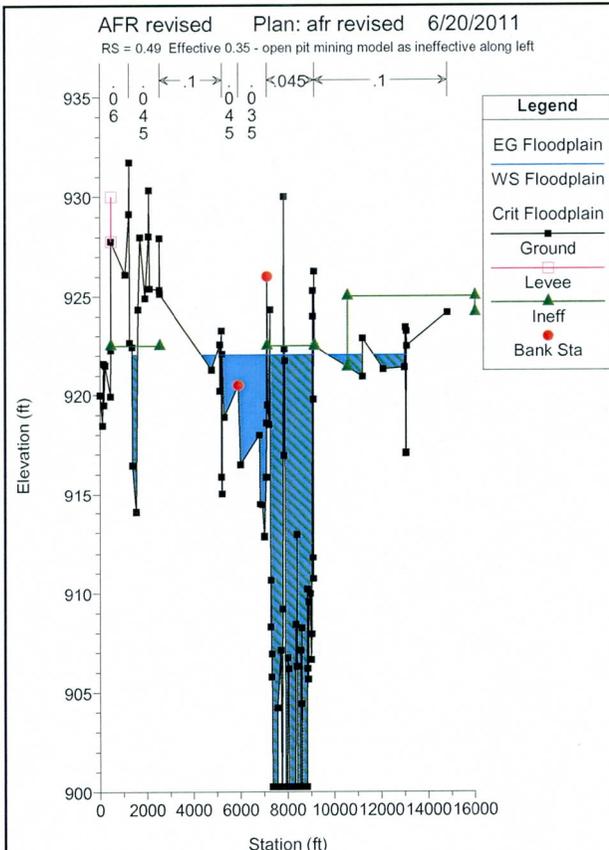












**Agua Fria River Floodplain Re-Delineation  
From Salt/Gila River to New River**

**WORK MAPS**



# FLOOD CONTROL DISTRICT OF MARICOPA COUNTY

## AGUA FRIA RIVER FLOODPLAIN RE-DELINEATION STUDY FCD 2007C053 ASSIGNMENT #3 AUGUST 2011

### HORIZONTAL DATUM:

NAD83 STATE PLANE COORDINATE SYSTEM

### VERTICAL DATUM:

NORTH AMERICAN VERTICAL DATUM OF 1988 (NAVD 88)

### HYDROLOGY:

HYDROLOGY FOR THE AGUA FRIA RIVER RE-DELINEATION WAS NOT MODIFIED FOR THIS STUDY AND IS FROM THE DRAINAGE REPORT, "HYDROLOGIC EVALUATION OF IMPACTS OF NEW WADDELL DAM ON DOWNSTREAM PEAK DISCHARGES IN THE AGUA FRIA RIVER", BY U.S. ARMY CORPS OF ENGINEERS, DATED JULY 1995. HYDROLOGY FOR ZONE AH DELINEATIONS PROVIDED BY WEST CONSULTANTS AND DOCUMENTED IN "AGUA FRIA WEST LEVEE INTERIOR DRAINAGE REPORT: LEVEE ID #18", AUGUST 2011, AND "AGUA FRIA EAST LEVEE INTERIOR DRAINAGE REPORT LEVEE ID #8 AND LEVEE ID #16", AUGUST 2011, FCD 2010C027 ASSIGNMENT 5

### PREPARED BY:

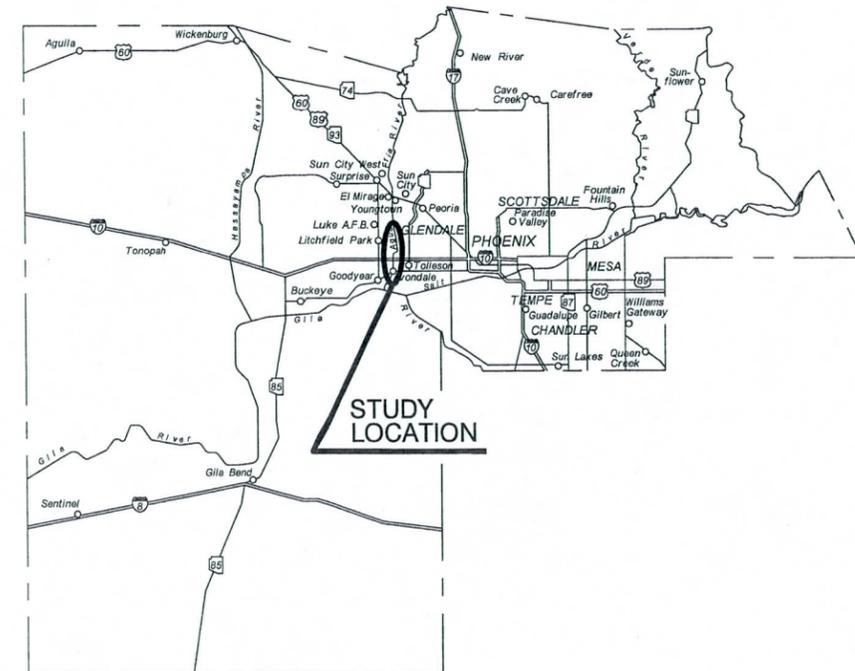


**Stanley Consultants INC.**

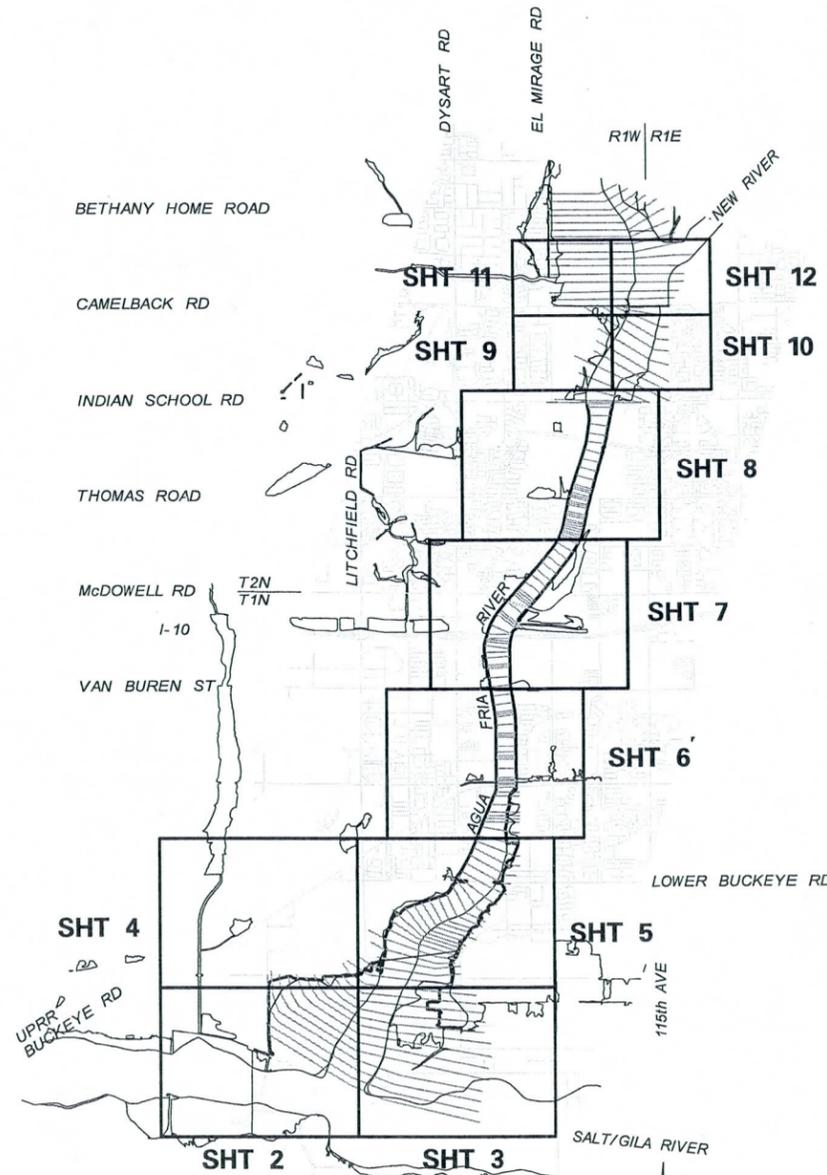
1661 East Camelback Road, Suite 400, Phoenix, Arizona 85016  
www.stanleygroup.com (602) 333-2200



ZONE "AE" FOR THE AGUA FRIA RIVER DEPICTED HEREIN FROM THE SALT/GILA RIVER CONFLUENCE TO NEW RIVER AND THE ZONE "A" FLOODPLAIN JUST EAST OF THE AGUA FRIA RIVER BETWEEN THE SPRR AND BUCKEYE ROAD WERE PREPARED BY STANLEY CONSULTANTS AND DOCUMENTED IN STANLEY REPORT "AGUA FRIA RIVER FLOODPLAIN RE-DELINEATION FROM SALT/GILA RIVER TO NEW RIVER, FCD2007C053 ASSIGNMENT #3 TECHNICAL DATA NOTEBOOK" DATED AUGUST 2011.



MARICOPA COUNTY  
NTS



SHEET INDEX MAP  
NTS

### IN CONJUNCTION WITH:



8950 South 52nd Street, Suite 210, Tempe, Arizona 85284  
www.westconsultants.com (480) 345-2155  
FCD 2010C027 Assignment # 5



ZONE "AH" FLOODPLAIN DELINEATIONS DEPICTED HEREIN WERE PREPARED BY WEST CONSULTANTS, INC. CURRENT EFFECTIVE ZONE "AH" DELINEATIONS ON SHEETS 8 & 9 CHANGED TO ZONE "A" DELINEATIONS BY WEST CONSULTANTS, INC. ZONE "AH" AND ZONE "A" FLOODPLAINS BY WEST CONSULTANTS ALONG THE WEST SIDE OF THE AGUA FRIA RIVER ARE DOCUMENTED IN WEST'S REPORT "AGUA FRIA ZONE "AH" WEST LEVEE INTERIOR DRAINAGE REPORT LEVEE ID#18", DATED AUGUST 2011. ZONE "AH" FLOODPLAINS BY WEST CONSULTANTS ALONG THE EAST SIDE OF THE AGUA FRIA RIVER ARE DOCUMENTED IN WEST'S REPORT "AGUA FRIA EAST LEVEE INTERIOR DRAINAGE REPORT, LEVEE ID #8 AND LEVEE ID #16", DATED AUGUST 2011.



**FLOOD CONTROL DISTRICT  
OF MARICOPA COUNTY**

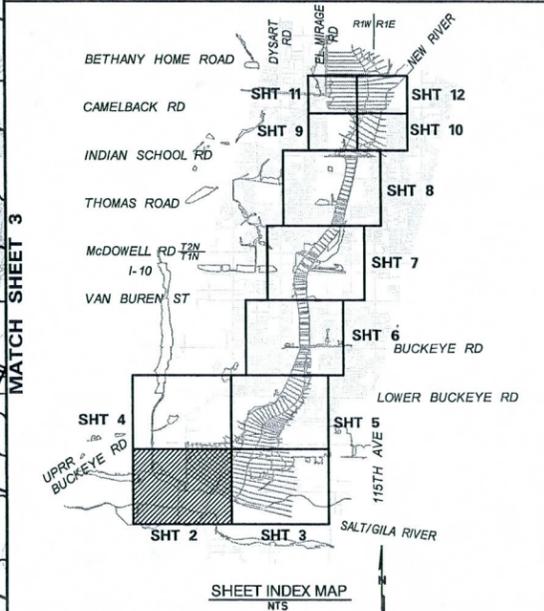
Agua Fria River Floodplain  
Re-Delineation Study  
FCD 2007C053 Assignment #3

River Sta	Floodplain W.S.E. (ft)	Floodway W.S.E. (ft)	Q Total (cfs)
1.350	931.38	932.21	50,900
1.270	931.06	931.89	50,900
1.150	930.32	931.27	50,900
1.050	929.42	930.21	50,900
0.970	927.97	928.47	50,900
0.880	927.08	927.73	50,900
0.780	925.60	926.29	50,900
0.690	924.64	925.40	50,900
0.590	923.58	924.19	50,900
0.490	922.03	922.41	50,900
0.400	919.01	919.04	50,900
0.320	917.54	917.55	50,900

**LEGEND**

- 100-YR FLOODPLAIN LIMIT
  - 100-YR FLOODWAY LIMIT
  - EFFECTIVE 100-YR FLOODPLAIN LIMIT
  - EFFECTIVE 100-YR FLOODWAY LIMIT
  - HYDRAULIC BASE LINE
  - CROSS SECTION WITH RIVER STATIONING
  - BASE FLOOD ELEVATION
  - FLOOD INSURANCE ZONE
- 1369 0.500
- ZONE AE, AH, A

2' CONTOUR INTERVAL  
HORIZONTAL DATUM: NAD83 STATE PLANE COORDINATE SYSTEM  
VERTICAL DATUM: NORTH AMERICAN VERTICAL DATUM OF 1988 (NAVD 88)



**Stanley Consultants inc.**  
1661 East Camelback Road, Suite 400, Phoenix, Arizona 85016  
www.stanleygroup.com (602) 333-2200

ZONE "AE" AND "A" FLOODPLAIN / FLOODWAY DELINEATIONS BY STANLEY CONSULTANTS.

WEST  
Seal Not  
Applicable

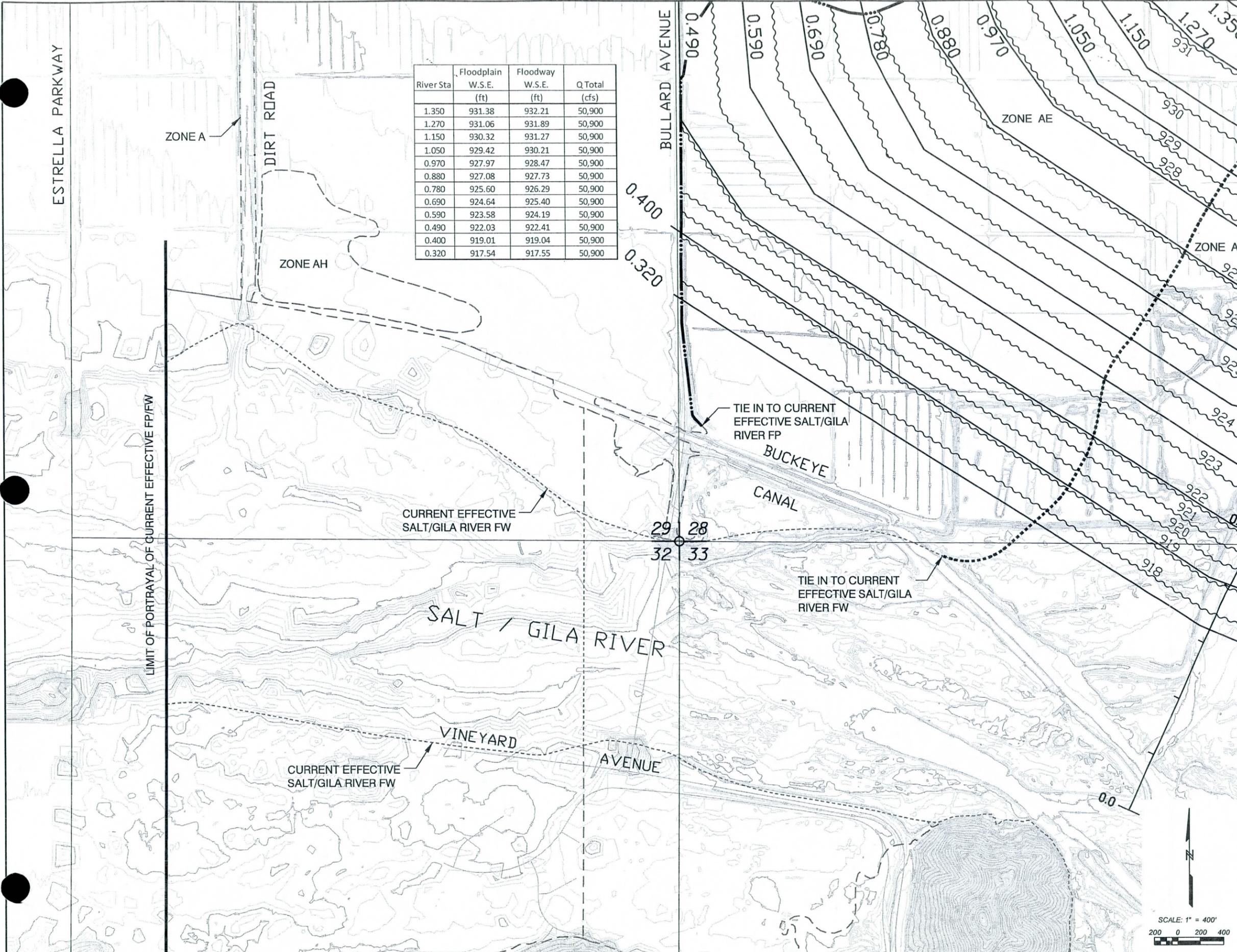
**WEST**  
CONSULTANTS INC.  
8950 South 52nd Street, Suite 210, Tempe, Arizona 85284  
www.westconsultants.com (480) 945-2155

ZONE "AH" FLOODPLAIN DELINEATIONS BY WEST CONSULTANTS.

	BY	DATE
DESIGNED	JPM	08/11
DRAWN	LRJ	08/11
CHECKED	GSB	08/11

Exhibit A

1661 East Camelback Road, Suite 400, Phoenix, Arizona 85016  
www.stanleygroup.com (602) 333-2200  
Stanley Consultants inc.



AERIAL MAPPING FROM RM 0.0 TO RM 2.13 SUPPLIED BY SANBORN MAP COMPANY, INC., GILLESPIE AREA DRAINAGE MASTER PLAN, PHASE I PROJECT SURVEY REPORT (ADMP), JULY 16, 2008, FCD 2007C045.  
AERIAL MAPPING FROM RM 2.13 TO RM 8.40 SUPPLIED BY WILSON AND COMPANY, AGUA FRIA RIVER MAPPING AND SURVEY REPORT, JANUARY 21, 2011, FCD 2008C018.  
AERIAL MAPPING FROM RM 8.40 TO RM 10.05 SUPPLIED BY COOPER AERIAL SURVEYS, MAPPING FOR AGUA FRIA WATERCOURSE MASTER PLAN, MARCH 24, 2009, FCD 2007C036.

In addition to the aerial mapping used in this re-study, ground survey data was collected by Stanley Consultants (Michael Fonden AZ RLS # 35113), Flood Control District of Maricopa County (John Stock AZ RLS # 25087), and Wilson & Company (Gregory Thompson AZ RLS # 42688). Please refer to Technical Data Notebook for complete documentation of these surveys.

**FLOOD CONTROL DISTRICT OF MARICOPA COUNTY**  
 Agua Fria River Floodplain Re-Delineation Study  
 FCD 2007C053 Assignment #3

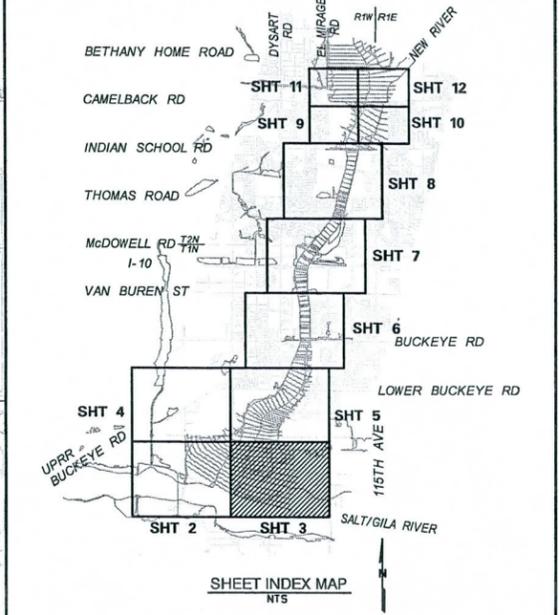
River Sta	Floodplain W.S.E. (ft)	Floodway W.S.E. (ft)	Q Total (cfs)
1.450	932.34	932.94	50,900
1.350	931.38	932.21	50,900
1.270	931.06	931.89	50,900
1.150	930.32	931.27	50,900
1.050	929.42	930.21	50,900
0.970	927.97	928.47	50,900
0.880	927.08	927.73	50,900
0.780	925.60	926.29	50,900
0.690	924.64	925.40	50,900
0.590	923.58	924.19	50,900
0.490	922.03	922.41	50,900
0.400	919.01	919.04	50,900
0.320	917.54	917.55	50,900

**LEGEND**

- 100-YR FLOODPLAIN LIMIT
- 100-YR FLOODWAY LIMIT
- EFFECTIVE 100-YR FLOODPLAIN LIMIT
- EFFECTIVE 100-YR FLOODWAY LIMIT
- HYDRAULIC BASE LINE
- CROSS SECTION WITH RIVER STATIONING
- BASE FLOOD ELEVATION
- FLOOD INSURANCE ZONE

0.500  
1369  
ZONE AE, AH, A

2' CONTOUR INTERVAL  
 HORIZONTAL DATUM: NAD83 STATE PLANE COORDINATE SYSTEM  
 VERTICAL DATUM: NORTH AMERICAN VERTICAL DATUM OF 1988 (NAVD 88)



**Stanley Consultants Inc.**  
 1661 East Camelback Road, Suite 400, Phoenix, Arizona 85016  
 www.stanleygroup.com (602) 333-2200

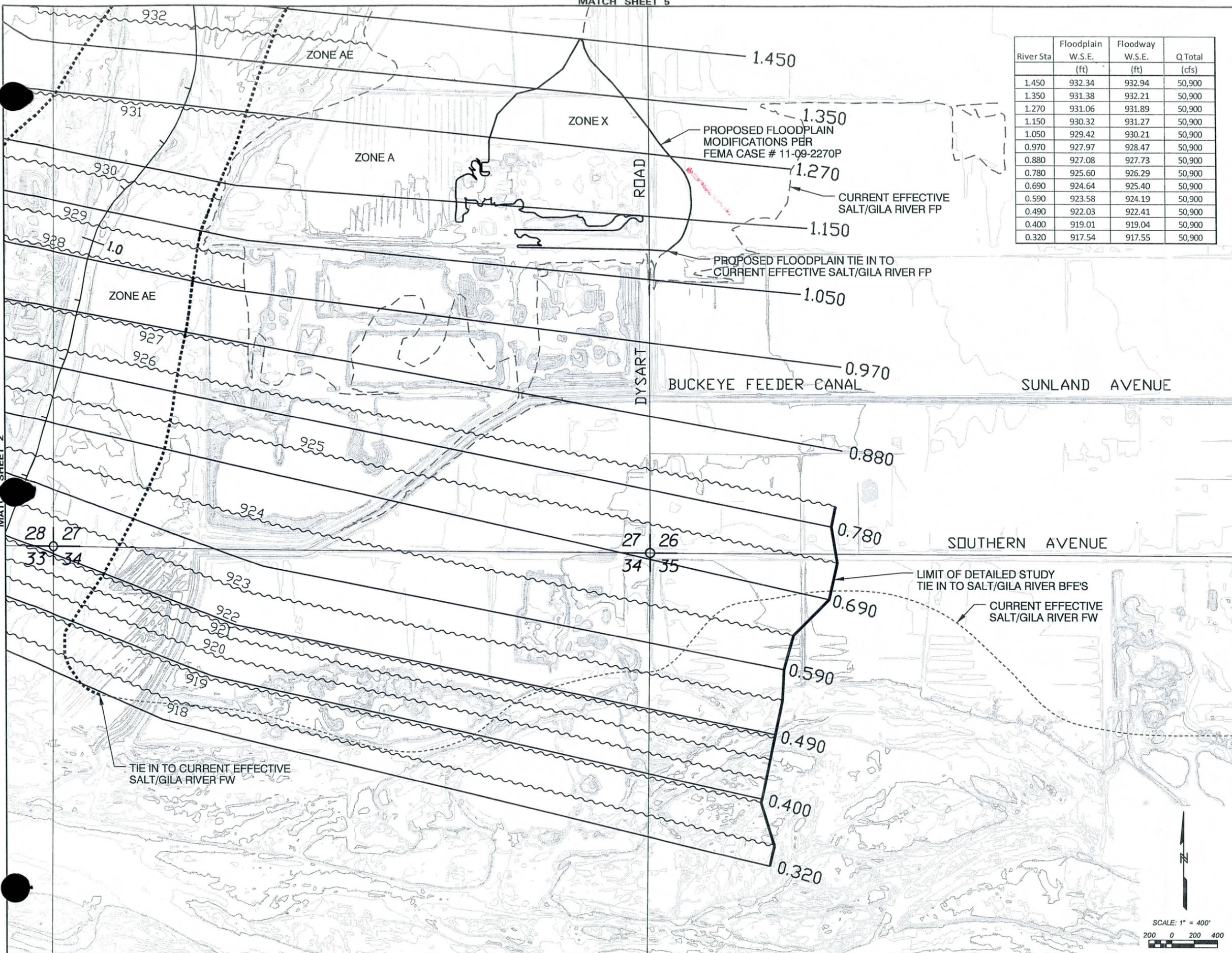
ZONE "AE" AND "A" FLOODPLAIN / FLOODWAY DELINEATIONS BY STANLEY CONSULTANTS.  
 Expires 3-31-14

**WEST Seal Not Applicable**

**WEST CONSULTANTS, INC.**  
 8950 South 52nd Street, Suite 210, Tempe, Arizona 85284  
 www.westconsultants.com (480) 345-2155

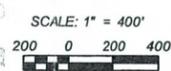
ZONE "AH" FLOODPLAIN DELINEATIONS BY WEST CONSULTANTS.

Exhibit A	BY		DATE
	DESIGNED	JPM	08/11
	DRAWN	LRJ	08/11
	CHECKED	GSB	08/11
1661 East Camelback Road, Suite 400, Phoenix, Arizona 85016 www.stanleygroup.com (602) 333-2200 Stanley Consultants Inc.			SHEET 3 OF 12



AERIAL MAPPING FROM RM 8.0 TO RM 2.13 SUPPLIED BY SANBORN MAP COMPANY, INC., GILLESPIE AREA DRAINAGE MASTER PLAN, PHASE I PROJECT SURVEY REPORT (ADMP), JULY 16, 2008, FCD 2007C045.  
 AERIAL MAPPING FROM RM 2.13 TO RM 8.48 SUPPLIED BY WILSON AND COMPANY, AGUA FRIA RIVER MAPPING AND SURVEY REPORT, JANUARY 21, 2011, FCD 2008C018.  
 AERIAL MAPPING FROM RM 8.48 TO RM 10.85 SUPPLIED BY COOPER AERIAL SURVEYS, MAPPING FOR AGUA FRIA WATERCOURSE MASTER PLAN, MARCH 24, 2009, FCD 2007C038.

In addition to the aerial mapping used in this re-study, ground survey data was collected by Stanley Consultants (Michael Fordman AZ RLS # 35113), Flood Control District of Maricopa County (John Stock AZ RLS # 25087), and Wilson & Company (Gregory Thompson AZ RLS # 42688). Please refer to Technical Data Notebook for complete documentation of these surveys.  
 Q:\21205\Assn.3-Lower\_Agua\_Fria\_River\11-CADD\03-Civ\21205\_e03.dgn



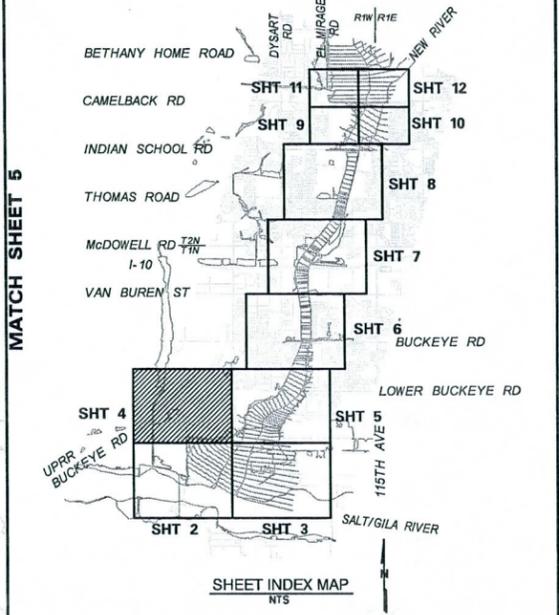
**FLOOD CONTROL DISTRICT OF MARICOPA COUNTY**  
 Agua Fria River Floodplain Re-Delineation Study  
 FCD 2007C053 Assignment #3

River Sta	Floodplain W.S.E. (ft)	Floodway W.S.E. (ft)	Q Total (cfs)
1.640	935.33	935.82	50,900
1.540	933.90	934.14	50,900
1.450	932.34	932.94	50,900
1.350	931.38	932.21	50,900
1.270	931.06	931.89	50,900
1.150	930.32	931.27	50,900
1.050	929.42	930.21	50,900
0.970	927.97	928.47	50,900
0.880	927.08	927.73	50,900
0.780	925.60	926.29	50,900
0.690	924.64	925.40	50,900
0.590	923.58	924.19	50,900
0.490	922.03	922.41	50,900

**LEGEND**

- 100-YR FLOODPLAIN LIMIT
- 100-YR FLOODWAY LIMIT
- EFFECTIVE 100-YR FLOODPLAIN LIMIT
- EFFECTIVE 100-YR FLOODWAY LIMIT
- HYDRAULIC BASE LINE
- CROSS SECTION WITH RIVER STATIONING
- BASE FLOOD ELEVATION
- FLOOD INSURANCE ZONE

2' CONTOUR INTERVAL  
 HORIZONTAL DATUM: NAD83 STATE PLANE COORDINATE SYSTEM  
 VERTICAL DATUM: NORTH AMERICAN VERTICAL DATUM OF 1988 (NAVD 88)



**Stanley Consultants Inc.**  
 1661 East Camelback Road, Suite 400, Phoenix, Arizona 85016  
 www.stanleygroup.com (602) 833-2800

ZONE "AE" AND "A" FLOODPLAIN / FLOODWAY DELINEATIONS BY STANLEY CONSULTANTS.

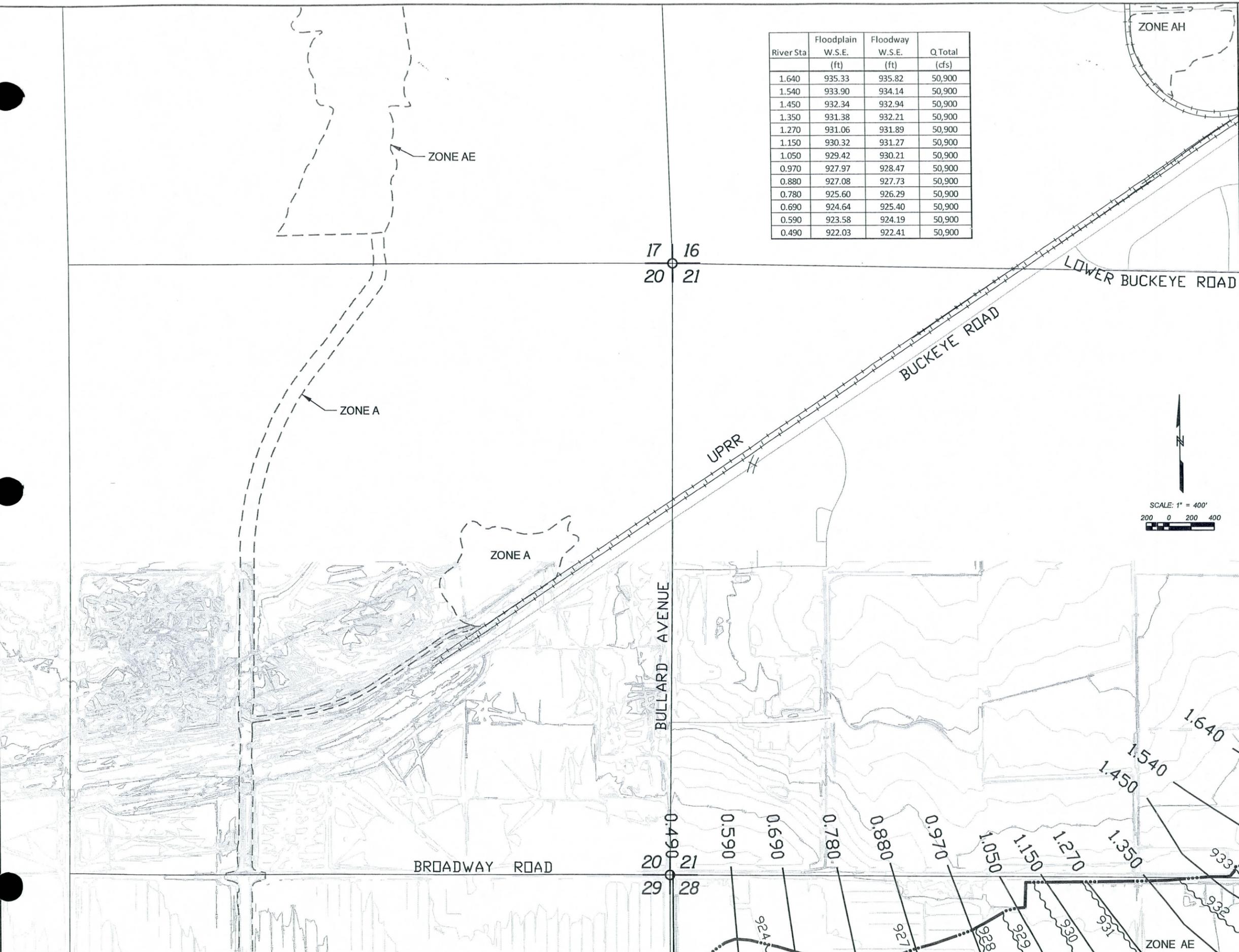
**WEST CONSULTANTS, INC.**  
 8950 South 52nd Street, Suite 210, Tempe, Arizona 85284  
 www.westconsultants.com (480) 946-2105

ZONE "AH" FLOODPLAIN DELINEATIONS BY WEST CONSULTANTS.

	BY	DATE
DESIGNED	JPM	08/11
DRAWN	LRJ	08/11
CHECKED	GSB	08/11

1661 East Camelback Road, Suite 400, Phoenix, Arizona 85016  
 www.stanleygroup.com (602) 833-2800  
 Stanley Consultants Inc.

AGUA FRIA RIVER	SHEET 4 OF 12
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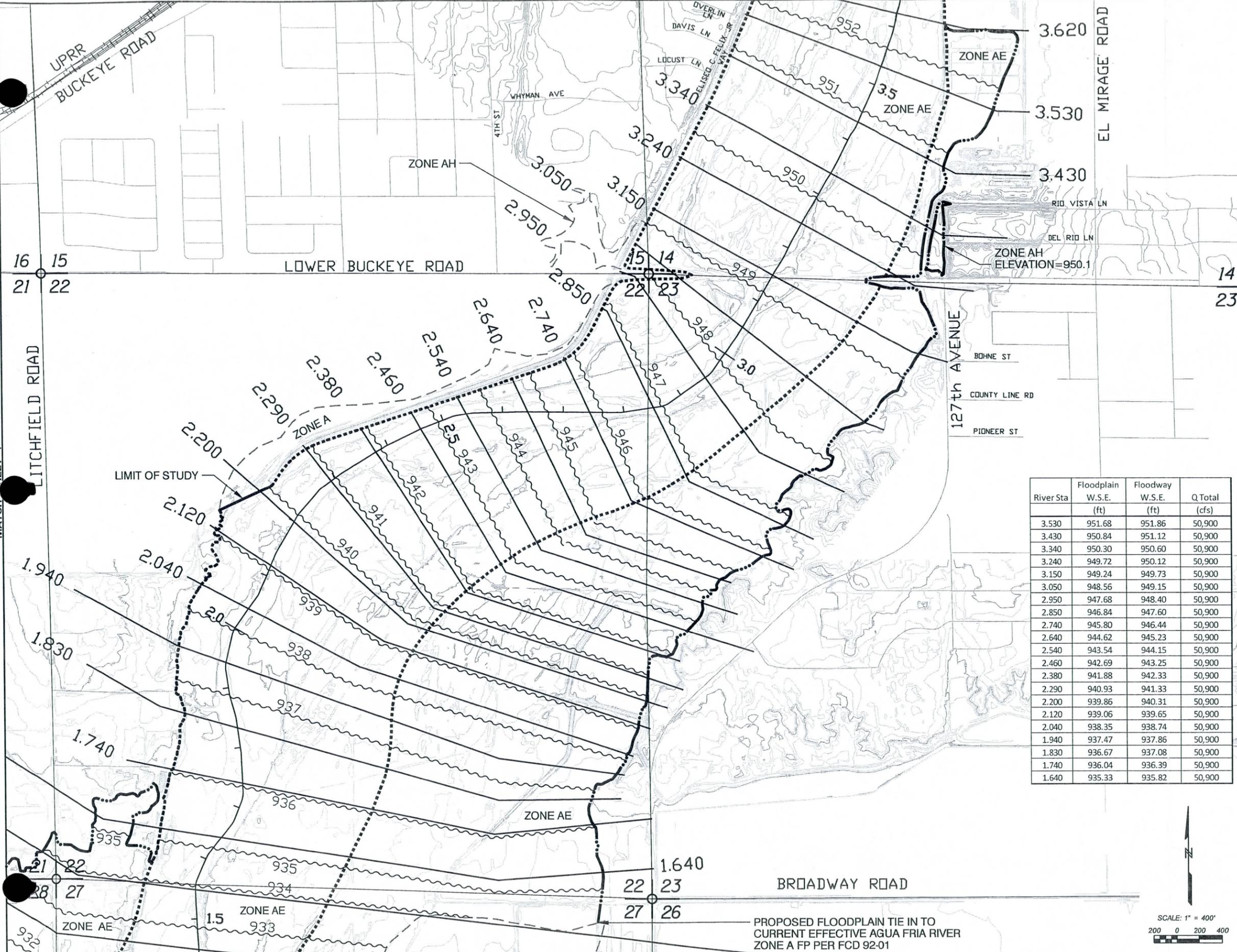


AERIAL MAPPING FROM RM 0.0 TO RM 2.13 SUPPLIED BY SANBORN MAP COMPANY, INC., GILLESPIE AREA DRAINAGE MASTER PLAN, PHASE I PROJECT SURVEY REPORT (ADMP), JULY 16, 2006, FCD 2007C045.  
 AERIAL MAPPING FROM RM 2.13 TO RM 8.48 SUPPLIED BY WILSON AND COMPANY, AGUA FRIA RIVER MAPPING AND SURVEY REPORT, JANUARY 21, 2011, FCD 2008C018.  
 AERIAL MAPPING FROM RM 8.48 TO RM 10.05 SUPPLIED BY COOPER AERIAL SURVEYS, MAPPING FOR AGUA FRIA WATERCOURSE MASTER PLAN, MARCH 24, 2009, FCD 2007C038.

In addition to the aerial mapping used in this re-study, ground survey data was collected by Stanley Consultants (Michael Fendren AZ RLS # 35113), Flood Control District of Maricopa County (John Stock AZ RLS # 25887), and Wilson & Company (Gregory Thompson AZ RLS # 42688). Please refer to Technical Data Notebook for complete documentation of these surveys.

Q:\21205\Assign\_3-Lower\_Agua\_Fria\_River\11-CADD\03-Civ\21205.c04.dwg

**FLOOD CONTROL DISTRICT OF MARICOPA COUNTY**  
 Agua Fria River Floodplain Re-Delineation Study  
 FCD 2007C053 Assignment #3

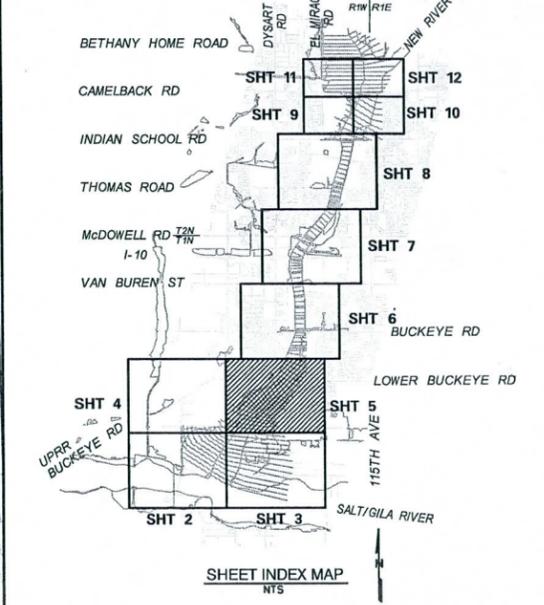


**LEGEND**

- 100-YR FLOODPLAIN LIMIT: Solid line with dots
- 100-YR FLOODWAY LIMIT: Dashed line
- EFFECTIVE 100-YR FLOODPLAIN LIMIT: Dotted line
- EFFECTIVE 100-YR FLOODWAY LIMIT: Dash-dot line
- HYDRAULIC BASE LINE: Solid line with short dashes
- CROSS SECTION WITH RIVER STATIONING: Line with '1369' and '0.500' markers
- BASE FLOOD ELEVATION: Wavy line
- FLOOD INSURANCE ZONE: ZONE AE, AH, A

2' CONTOUR INTERVAL  
 HORIZONTAL DATUM: NAD83 STATE PLANE COORDINATE SYSTEM  
 VERTICAL DATUM: NORTH AMERICAN VERTICAL DATUM OF 1988 (NAVD 88)

River Sta	Floodplain W.S.E. (ft)	Floodway W.S.E. (ft)	Q Total (cfs)
3.530	951.68	951.86	50,900
3.430	950.84	951.12	50,900
3.340	950.30	950.60	50,900
3.240	949.72	950.12	50,900
3.150	949.24	949.73	50,900
3.050	948.56	949.15	50,900
2.950	947.68	948.40	50,900
2.850	946.84	947.60	50,900
2.740	945.80	946.44	50,900
2.640	944.62	945.23	50,900
2.540	943.54	944.15	50,900
2.460	942.69	943.25	50,900
2.380	941.88	942.33	50,900
2.290	940.93	941.33	50,900
2.200	939.86	940.31	50,900
2.120	939.06	939.65	50,900
2.040	938.35	938.74	50,900
1.940	937.47	937.86	50,900
1.830	936.67	937.08	50,900
1.740	936.04	936.39	50,900
1.640	935.33	935.82	50,900



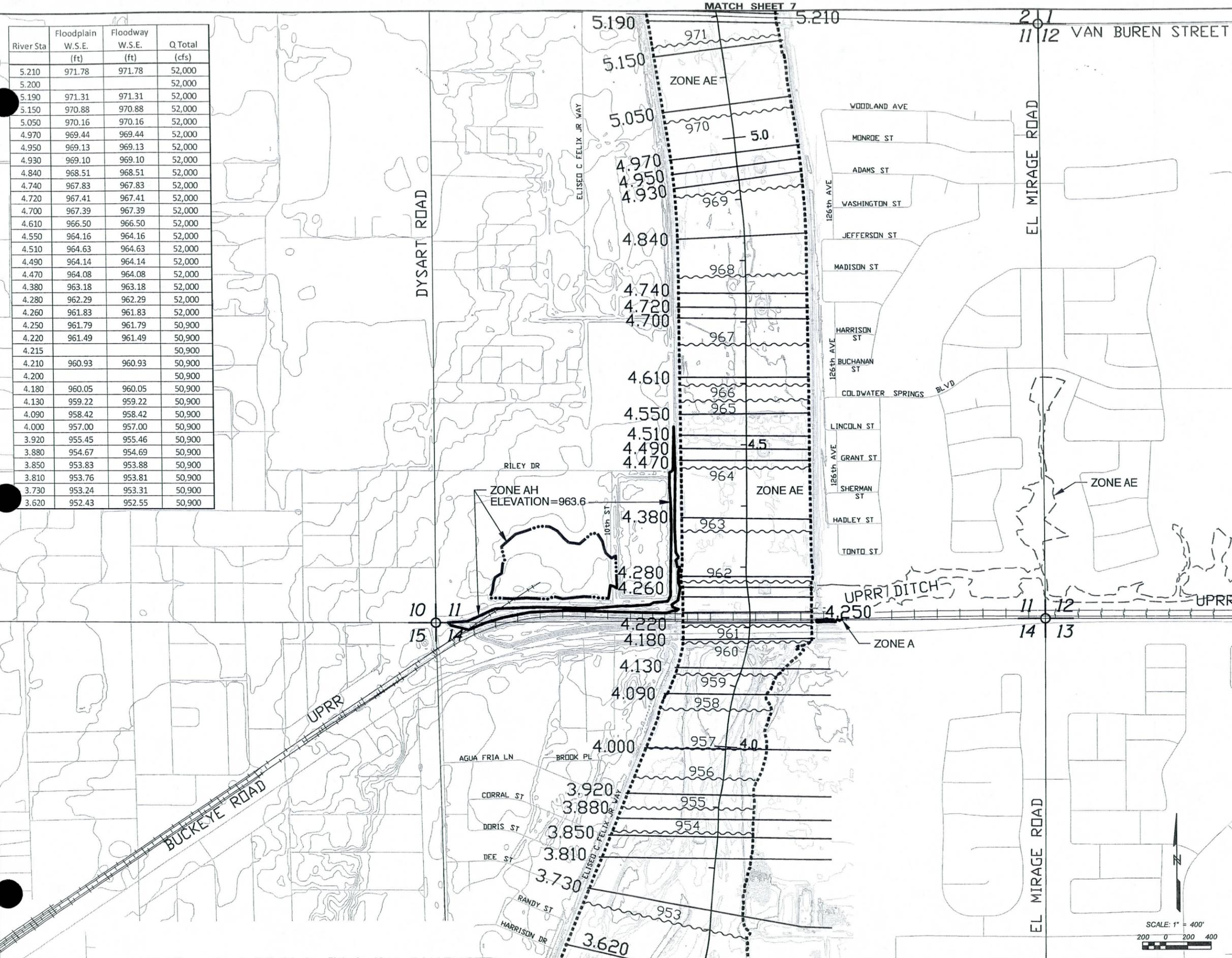
**Stanley Consultants** inc.  
 1661 East Camelback Road, Suite 400, Phoenix, Arizona 85016  
 www.stanleygroup.com (602) 333-2200  
 ZONE 'AE' AND 'A' FLOODPLAIN / FLOODWAY DELINEATIONS BY STANLEY CONSULTANTS.  
 Expires 3-31-14

**WEST CONSULTANTS, INC.**  
 8950 South 52nd Street, Suite 210, Tempe, Arizona 85294  
 www.westconsultants.com (602) 345-2155  
 ZONE 'AH' FLOODPLAIN DELINEATIONS BY WEST CONSULTANTS.  
 Expires 3/31/2014

	BY	DATE
DESIGNED	JPM	08/11
DRAWN	LRJ	08/11
CHECKED	GSB	08/11
AGUA FRIA RIVER		SHEET 5 OF 12

AERIAL MAPPING FROM RM 0.0 TO RM 2.13 SUPPLIED BY SANBORN MAP COMPANY, INC., GILLESPIE AREA DRAINAGE MASTER PLAN, PHASE I PROJECT SURVEY REPORT (ADMP), JULY 16, 2008, FCD 2007C045.  
 AERIAL MAPPING FROM RM 2.13 TO RM 8.48 SUPPLIED BY WILSON AND COMPANY, AGUA FRIA RIVER MAPPING AND SURVEY REPORT, JANUARY 21, 2011, FCD 2008C018.  
 AERIAL MAPPING FROM RM 8.48 TO RM 10.25 SUPPLIED BY COOPER AERIAL SURVEYS, MAPPING FOR AGUA FRIA WATERCOURSE MASTER PLAN, MARCH 24, 2009, FCD 2007C038.  
 MATCH SHEET 3  
 In addition to the aerial mapping used in this re-study, ground survey data was collected by Stanley Consultants (Michael Fonden AZ RLS # 35113), Flood Control District of Maricopa County (John Stook AZ RLS # 25087), and Wilson & Company (Gregory Thompson AZ RLS # 42688). Please refer to Technical Data Notebook for complete documentation of these surveys.  
 Q:\21205\Assn\_3-Lower\_Agua\_Fria\_River\11-CADD\03-Civ\21205.c05.dgn

River Sta	Floodplain W.S.E. (ft)	Floodway W.S.E. (ft)	Q Total (cfs)
5.210	971.78	971.78	52,000
5.200			52,000
5.190	971.31	971.31	52,000
5.150	970.88	970.88	52,000
5.050	970.16	970.16	52,000
4.970	969.44	969.44	52,000
4.950	969.13	969.13	52,000
4.930	969.10	969.10	52,000
4.840	968.51	968.51	52,000
4.740	967.83	967.83	52,000
4.720	967.41	967.41	52,000
4.700	967.39	967.39	52,000
4.610	966.50	966.50	52,000
4.550	964.16	964.16	52,000
4.510	964.63	964.63	52,000
4.490	964.14	964.14	52,000
4.470	964.08	964.08	52,000
4.380	963.18	963.18	52,000
4.280	962.29	962.29	52,000
4.260	961.83	961.83	52,000
4.250	961.79	961.79	50,900
4.220	961.49	961.49	50,900
4.215			50,900
4.210	960.93	960.93	50,900
4.200			50,900
4.180	960.05	960.05	50,900
4.130	959.22	959.22	50,900
4.090	958.42	958.42	50,900
4.000	957.00	957.00	50,900
3.920	955.45	955.46	50,900
3.880	954.67	954.69	50,900
3.850	953.83	953.88	50,900
3.810	953.76	953.81	50,900
3.730	953.24	953.31	50,900
3.620	952.43	952.55	50,900



**FLOOD CONTROL DISTRICT OF MARICOPA COUNTY**  
 Agua Fria River Floodplain Re-Delineation Study  
 FCD 2007C053 Assignment #3

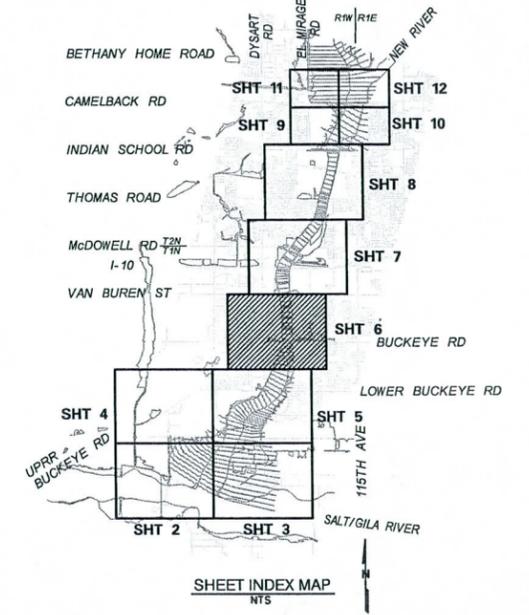
**LEGEND**

- 100-YR FLOODPLAIN LIMIT
- 100-YR FLOODWAY LIMIT
- EFFECTIVE 100-YR FLOODPLAIN LIMIT
- EFFECTIVE 100-YR FLOODWAY LIMIT
- HYDRAULIC BASE LINE
- CROSS SECTION WITH RIVER STATIONING
- BASE FLOOD ELEVATION
- FLOOD INSURANCE ZONE

SCALE: 1369 0.500

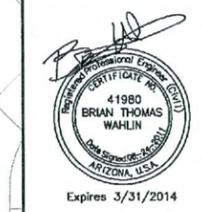
ZONE AE, AH, A

2' CONTOUR INTERVAL  
 HORIZONTAL DATUM: NAD83 STATE PLANE COORDINATE SYSTEM  
 VERTICAL DATUM: NORTH AMERICAN VERTICAL DATUM OF 1988 (NAVD 88)



**Stanley Consultants Inc.**  
 1661 East Camelback Road, Suite 400, Phoenix, Arizona 85016  
 www.stanleygroup.com (602) 333-2200

ZONE "AE" AND "A" FLOODPLAIN / FLOODWAY DELINEATIONS BY STANLEY CONSULTANTS.



**WEST CONSULTANTS, INC.**  
 8950 South 52nd Street, Suite 210, Tempe, Arizona 85284  
 www.westconsultants.com (480) 345-2155

ZONE "AH" FLOODPLAIN DELINEATIONS BY WEST CONSULTANTS.

	BY	DATE
DESIGNED	JPM	08/11
DRAWN	LRJ	08/11
CHECKED	GSB	08/11

AERIAL MAPPING FROM RM 0.0 TO RM 2.13 SUPPLIED BY SANBORN MAP COMPANY, INC., GILLESPIE AREA DRAINAGE MASTER PLAN, PHASE I PROJECT SURVEY REPORT (ADMP), JULY 16, 2008, FCD 2007C045.  
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 AERIAL MAPPING FROM RM 8.48 TO RM 10.05 SUPPLIED BY COOPER AERIAL SURVEYS, MAPPING FOR AGUA FRIA WATERCOURSE MASTER PLAN, MARCH 24, 2009, FCD 2007C038.

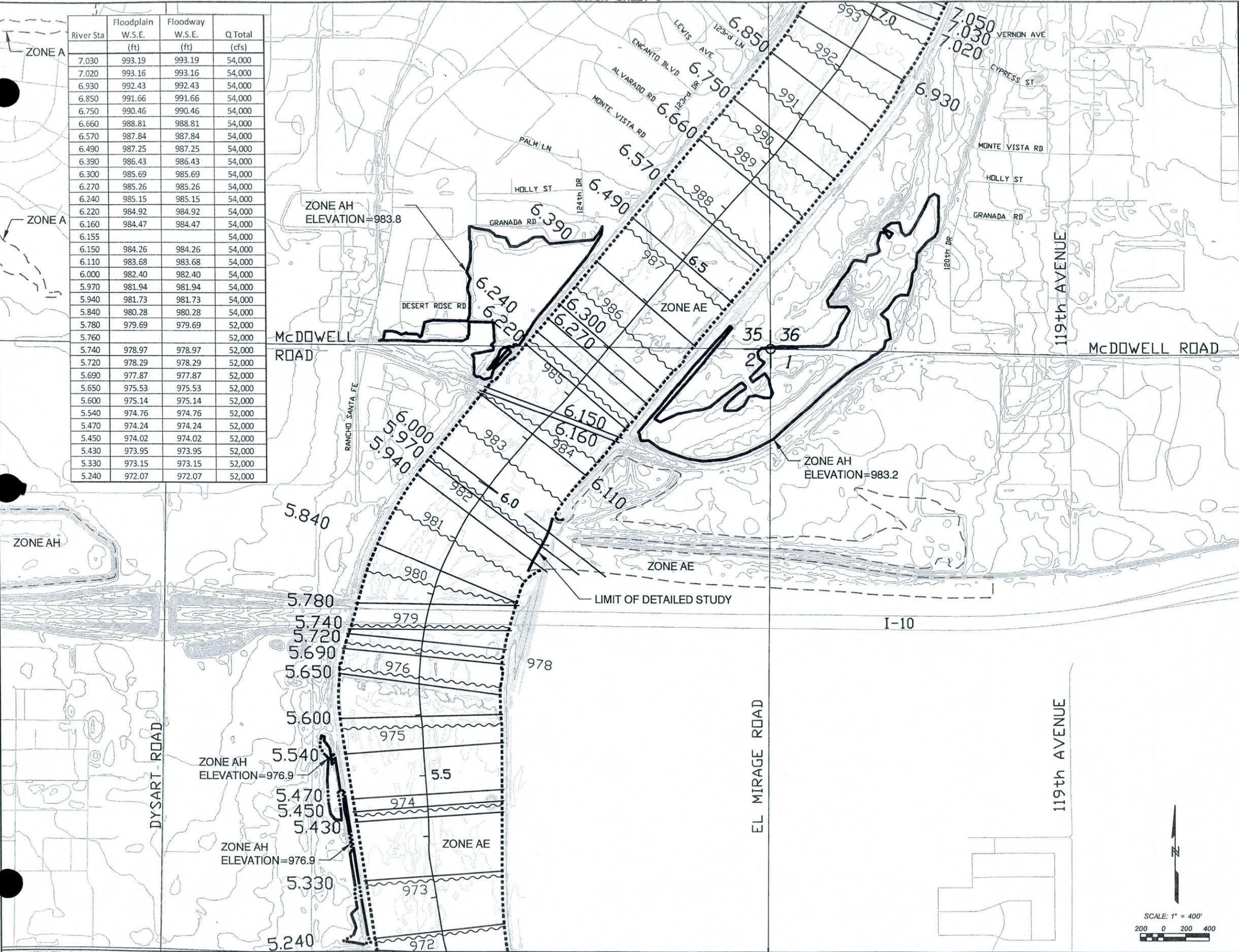
MATCH SHEET 5

In addition to the aerial mapping used in this re-study, ground survey data was collected by Stanley Consultants (Michael Fandren AZ RLS # 35113), Flood Control District of Maricopa County (John Stock AZ RLS # 25087), and Wilson & Company (Gregory Thompson AZ RLS # 42688). Please refer to Technical Data Notebook for complete documentation of these surveys.

Exhibit A

**FLOOD CONTROL DISTRICT OF MARICOPA COUNTY**  
 Agua Fria River Floodplain Re-Delineation Study  
 FCD 2007C053 Assignment #3

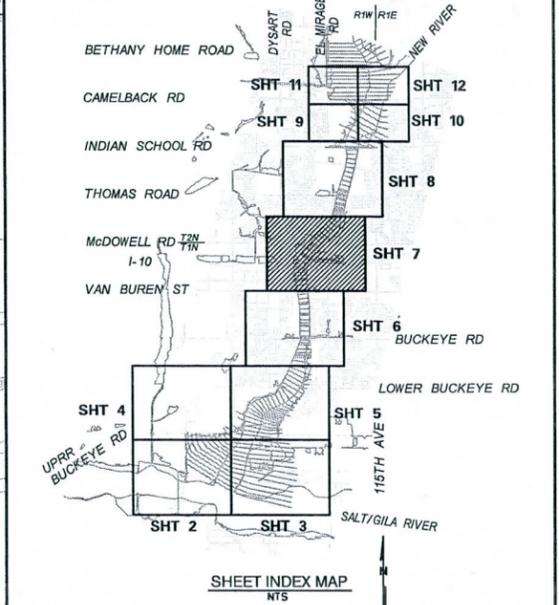
River Sta	Floodplain W.S.E. (ft)	Floodway W.S.E. (ft)	Q Total (cfs)
7.030	993.19	993.19	54,000
7.020	993.16	993.16	54,000
6.930	992.43	992.43	54,000
6.850	991.66	991.66	54,000
6.750	990.46	990.46	54,000
6.660	988.81	988.81	54,000
6.570	987.84	987.84	54,000
6.490	987.25	987.25	54,000
6.390	986.43	986.43	54,000
6.300	985.69	985.69	54,000
6.270	985.26	985.26	54,000
6.240	985.15	985.15	54,000
6.220	984.92	984.92	54,000
6.160	984.47	984.47	54,000
6.155			54,000
6.150	984.26	984.26	54,000
6.110	983.68	983.68	54,000
6.000	982.40	982.40	54,000
5.970	981.94	981.94	54,000
5.940	981.73	981.73	54,000
5.840	980.28	980.28	54,000
5.780	979.69	979.69	52,000
5.760			52,000
5.740	978.97	978.97	52,000
5.720	978.29	978.29	52,000
5.690	977.87	977.87	52,000
5.650	975.53	975.53	52,000
5.600	975.14	975.14	52,000
5.540	974.76	974.76	52,000
5.470	974.24	974.24	52,000
5.450	974.02	974.02	52,000
5.430	973.95	973.95	52,000
5.330	973.15	973.15	52,000
5.240	972.07	972.07	52,000



**LEGEND**

- 100-YR FLOODPLAIN LIMIT: Solid line with dots
- 100-YR FLOODWAY LIMIT: Dashed line with dots
- EFFECTIVE 100-YR FLOODPLAIN LIMIT: Dashed line
- EFFECTIVE 100-YR FLOODWAY LIMIT: Dashed line
- HYDRAULIC BASE LINE: Solid line
- CROSS SECTION WITH RIVER STATIONING: Line with '1369' and '0.500' markers
- BASE FLOOD ELEVATION: Wavy line with '1369' marker
- FLOOD INSURANCE ZONE: ZONE AE, AH, A

2' CONTOUR INTERVAL  
 HORIZONTAL DATUM: NAD83 STATE PLANE COORDINATE SYSTEM  
 VERTICAL DATUM: NORTH AMERICAN VERTICAL DATUM OF 1988 (NAVD 88)



**Stanley Consultants Inc.**  
 1661 East Camelback Road, Suite 400, Phoenix, Arizona 85016  
 www.stanleygroup.com (602) 333-2200  
 ZONE 'AE' AND 'A' FLOODPLAIN / FLOODWAY DELINEATIONS BY STANLEY CONSULTANTS.  
 Expires 3/31/14

**WEST CONSULTANTS, INC.**  
 41980 BRIAN THOMAS WAHLIN  
 8950 South 52nd Street, Suite 210, Tempe, Arizona 85284  
 www.westconsultants.com (480) 965-2125  
 ZONE 'AH' FLOODPLAIN DELINEATIONS BY WEST CONSULTANTS.  
 Expires 3/31/2014

	BY	DATE
DESIGNED	JPM	08/11
DRAWN	LRJ	08/11
CHECKED	GSB	08/11

AERIAL MAPPING FROM RM 0.0 TO RM 2.13 SUPPLIED BY SANBORN MAP COMPANY, INC., GILLESPIE AREA DRAINAGE MASTER PLAN, PHASE 1 PROJECT SURVEY REPORT (ADMP), JULY 16, 2008, FCD 2007C045.  
 AERIAL MAPPING FROM RM 2.13 TO RM 8.48 SUPPLIED BY WILSON AND COMPANY, AGUA FRIA RIVER MAPPING AND SURVEY REPORT, JANUARY 21, 2011, FCD 2008C018.  
 AERIAL MAPPING FROM RM 8.48 TO RM 10.05 SUPPLIED BY COOPER AERIAL SURVEYS, MAPPING FOR AGUA FRIA WATERCOURSE MASTER PLAN, MARCH 24, 2009, FCD 2007C038.

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INDIAN SCHOOL ROAD

River Sta	Floodplain W.S.E. (ft)	Floodway W.S.E. (ft)	Q Total (cfs)
8.720	1010.97	1011.03	54,000
8.620	1010.16	1010.16	54,000
8.540	1009.48	1009.48	54,000
8.530	1009.50	1009.50	54,000
8.510			54,000
8.490	1009.15	1009.15	54,000
8.480	1008.85	1008.85	54,000
8.440	1008.53	1008.53	54,000
8.350	1007.84	1007.84	54,000
8.260	1007.11	1007.11	54,000
8.160	1006.21	1006.21	54,000
8.070	1005.28	1005.28	54,000
7.980	1004.15	1004.15	54,000
7.880	1003.07	1003.07	54,000
7.780	1002.00	1002.00	54,000
7.690	1001.06	1001.06	54,000
7.600	1000.11	1000.11	54,000
7.570	999.52	999.52	54,000
7.550	999.44	999.44	54,000
7.510	998.99	998.99	54,000
7.480	998.43	998.43	54,000
7.460	998.33	998.33	54,000
7.420	997.74	997.74	54,000
7.400	996.91	996.91	54,000
7.380	996.70	996.70	54,000
7.310	996.35	996.35	54,000
7.290	995.90	995.90	54,000
7.270	995.84	995.84	54,000
7.230	995.45	995.45	54,000
7.210	995.04	995.04	54,000
7.180	994.97	994.97	54,000
7.160	994.71	994.71	54,000
7.130	994.56	994.56	54,000
7.100	994.03	994.03	54,000
7.080	993.92	993.92	54,000
7.050	993.68	993.68	54,000
7.030	993.19	993.19	54,000
7.020	993.16	993.16	54,000

THOMAS ROAD

ZONE A

ZONE A

ZONE AE

ZONE AE

ZONE AH ELEVATION=991.6

ZONE AH ELEVATION=946.2

ZONE A

ZONE AE

AERIAL MAPPING FROM RM 8.0 TO RM 2.13 SUPPLIED BY SANBORN MAP COMPANY, INC., GILLESPIE AREA DRAINAGE MASTER PLAN, PHASE I PROJECT SURVEY REPORT (ADMP), JULY 16, 2008, FCD 2007C045.  
 AERIAL MAPPING FROM RM 2.13 TO RM 8.48 SUPPLIED BY WILSON AND COMPANY, AGUA FRIA RIVER MAPPING AND SURVEY REPORT, JANUARY 21, 2011, FCD 2008C018.  
 AERIAL MAPPING FROM RM 8.48 TO RM 10.85 SUPPLIED BY COOPER AERIAL SURVEYS, MAPPING FOR AGUA FRIA WATERCOURSE MASTER PLAN, MARCH 24, 2009, FCD 2007C038.

MATCH SHEET 7

In addition to the aerial mapping used in this re-study, ground survey data was collected by Stanley Consultants (Michael Fendren AZ RLS # 35113), Flood Control District of Maricopa County (John Stock AZ RLS # 25087), and Wilson & Company (Gregory Thompson AZ RLS # 42688). Please refer to Technical Data Notebook for complete documentation of these surveys.

**FLOOD CONTROL DISTRICT OF MARICOPA COUNTY**  
 Agua Fria River Floodplain Re-Delineation Study  
 FCD 2007C053 Assignment #3

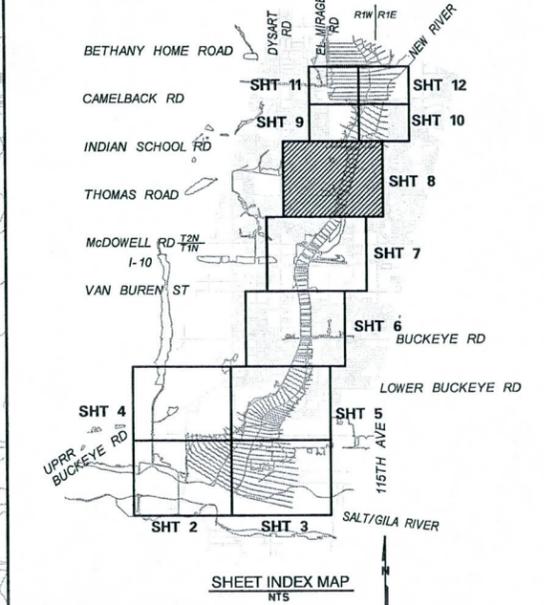
**LEGEND**

- 100-YR FLOODPLAIN LIMIT
- 100-YR FLOODWAY LIMIT
- EFFECTIVE 100-YR FLOODPLAIN LIMIT
- EFFECTIVE 100-YR FLOODWAY LIMIT
- HYDRAULIC BASE LINE
- CROSS SECTION WITH RIVER STATIONING
- BASE FLOOD ELEVATION
- FLOOD INSURANCE ZONE

1369 0.500

ZONE AE, AH, A

2' CONTOUR INTERVAL  
 HORIZONTAL DATUM: NAD83 STATE PLANE COORDINATE SYSTEM  
 VERTICAL DATUM: NORTH AMERICAN VERTICAL DATUM OF 1988 (NAVD 88)



**Stanley Consultants INC.**  
 1661 East Camelback Road, Suite 400, Phoenix, Arizona 85016  
 www.stanleygroup.com (602) 333-2200

ZONE "AE" AND "A" FLOODPLAIN / FLOODWAY DELINEATIONS BY STANLEY CONSULTANTS.

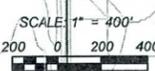
**WEST CONSULTANTS, INC.**  
 8950 South 52nd Street, Suite 210, Tempe, Arizona 85284  
 www.westconsultants.com (480) 945-2155

ZONE "A" AND "AH" FLOODPLAIN DELINEATIONS BY WEST CONSULTANTS.

	BY	DATE
DESIGNED	JPM	08/11
DRAWN	LRJ	08/11
CHECKED	GSB	08/11

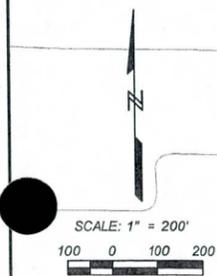
1661 East Camelback Road, Suite 400, Phoenix, Arizona 85016  
 www.stanleygroup.com (602) 333-2200  
 Stanley Consultants Inc.

AGUA FRIA RIVER SHEET 8 OF 12

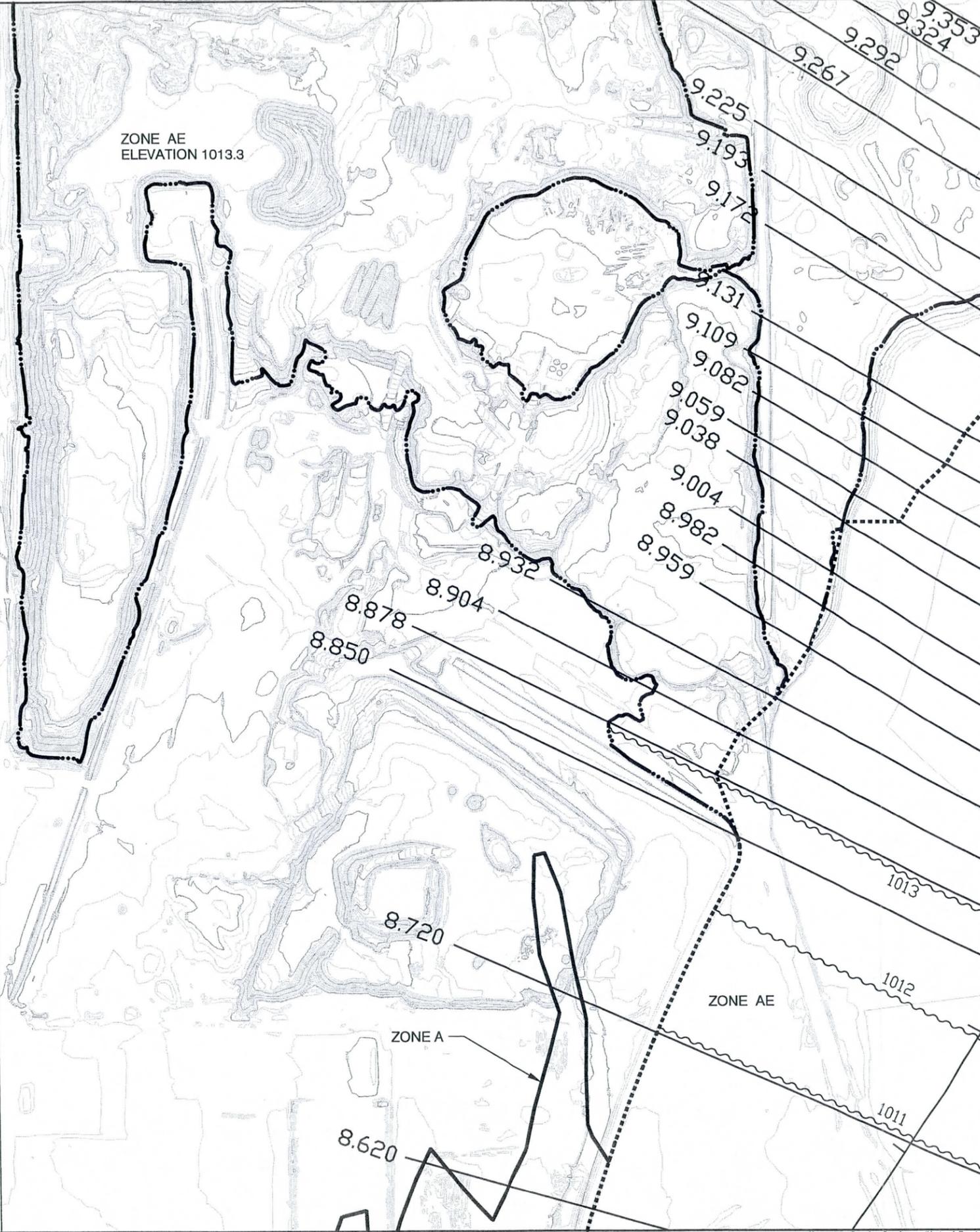


River Sta	Floodplain W.S.E. (ft)	Floodway W.S.E. (ft)	Q Total (cfs)
9.324	1013.73	1013.77	54,000
9.292	1013.65	1013.69	54,000
9.267	1013.60	1013.63	54,000
9.225	1013.55	1013.59	54,000
9.193	1013.51	1013.55	54,000
9.172	1013.50	1013.54	54,000
9.131	1013.47	1013.51	54,000
9.109	1013.45	1013.49	54,000
9.082	1013.44	1013.47	54,000
9.059	1013.42	1013.46	54,000
9.038	1013.40	1013.44	54,000
9.004	1013.35	1013.39	54,000
8.982	1013.31	1013.35	54,000
8.959	1013.27	1013.31	54,000
8.932	1013.22	1013.26	54,000
8.904	1013.13	1013.17	54,000
8.878	1013.04	1013.08	54,000
8.850	1012.88	1012.93	54,000
8.720	1010.97	1010.97	54,000
8.620	1010.16	1010.16	54,000

DELINEATION UPSTREAM OF SECTION 8.850 COMPLETED BY JE FULLER HYDROLOGY & GEOMORPHOLOGY, DOCUMENTED IN THE REPORT "FLOODPLAIN DELINEATION STUDY FOR A PORTION OF THE AGUA FRIA RIVER, AGUA FRIA RIVER FROM 1800 FEET UPSTREAM (NORTH) OF CAMELBACK ROAD BRIDGE TO 1700 FEET UPSTREAM (NORTH) OF INDIAN SCHOOL ROAD BRIDGE", DATED JUNE 2011, FCD 2007C051 ASSIGNMENT 10



AERIAL MAPPING FROM RM 8.8 TO RM 2.13 SUPPLIED BY SANBORN MAP COMPANY, INC., GILLESPIE AREA DRAINAGE MASTER PLAN, PHASE I PROJECT SURVEY REPORT (ADMP), JULY 16, 2008, FCD 2007C045.  
 AERIAL MAPPING FROM RM 2.13 TO RM 8.48 SUPPLIED BY WILSON AND COMPANY, AGUA FRIA RIVER MAPPING AND SURVEY REPORT, JANUARY 21, 2011, FCD 2008C018.  
 AERIAL MAPPING FROM RM 8.48 TO RM 10.85 SUPPLIED BY COOPER AERIAL SURVEYS, MAPPING FOR AGUA FRIA WATERCOURSE MASTER PLAN, MARCH 24, 2009, FCD 2007C038.

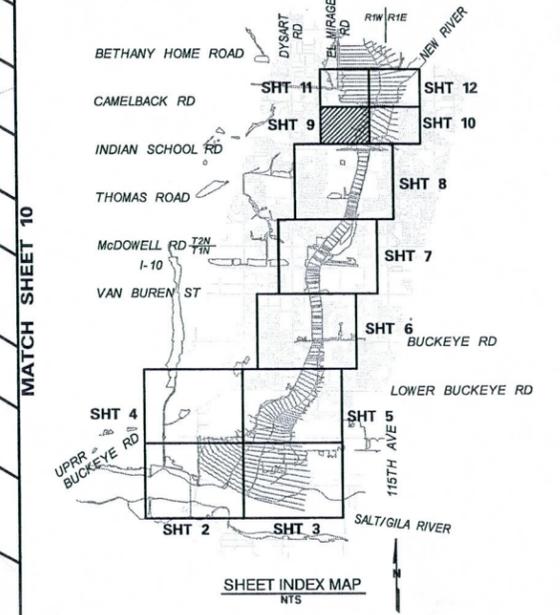


**FLOOD CONTROL DISTRICT OF MARICOPA COUNTY**  
 Agua Fria River Floodplain Re-Delineation Study  
 FCD 2007C053 Assignment #3

**LEGEND**

- 100-YR FLOODPLAIN LIMIT (thick dashed line)
- 100-YR FLOODWAY LIMIT (dotted line)
- EFFECTIVE 100-YR FLOODPLAIN LIMIT (thin dashed line)
- EFFECTIVE 100-YR FLOODWAY LIMIT (dashed line)
- HYDRAULIC BASE LINE (line with cross-ticks)
- CROSS SECTION WITH RIVER STATIONING (line with '1369' and '0.500' labels)
- BASE FLOOD ELEVATION (wavy line with '1369' label)
- FLOOD INSURANCE ZONE (text: ZONE AE, AH, A)

2' CONTOUR INTERVAL  
 HORIZONTAL DATUM: NAD83 STATE PLANE COORDINATE SYSTEM  
 VERTICAL DATUM: NORTH AMERICAN VERTICAL DATUM OF 1988 (NAVD 88)



**Stanley Consultants Inc.**  
 1661 East Camelback Road, Suite 400, Phoenix, Arizona 85016  
 www.stanleygroup.com (602) 833-2300  
 Expires 3-31-14

**WEST CONSULTANTS, INC.**  
 8950 South 52nd Street, Suite 210, Tempe, Arizona 85284  
 www.westconsultants.com (480) 345-2105  
 Expires 3/31/2014

	BY	DATE
DESIGNED	JPM	08/11
DRAWN	LRJ	08/11
CHECKED	GSB	08/11

**Exhibit A**

AGUA FRIA RIVER	SHEET 9 OF 12
-----------------	---------------

In addition to the aerial mapping used in this re-study, ground survey data was collected by Stanley Consultants (Michael Forderer AZ RLS # 35113), Flood Control District of Maricopa County (John Stook AZ RLS # 25087), and Wilson & Company (Gregory Thompson AZ RLS # 42688). Please refer to Technical Data Notebook for complete documentation of these surveys.

**FLOOD CONTROL DISTRICT OF MARICOPA COUNTY**  
 Agua Fria River Floodplain Re-Delineation Study  
 FCD 2007C053 Assignment #3

River Sta	Floodplain W.S.E. (ft)	Floodway W.S.E. (ft)	Q Total (cfs)
9.624	1021.00	1021.06	54,000
9.602	1020.01	1019.98	54,000
9.569	1017.83	1017.85	54,000
9.546	1014.64	1014.64	54,000
9.518	1014.21	1014.23	54,000
9.487	1014.14	1014.16	54,000
9.467	1014.07	1014.10	54,000
9.445	1013.99	1014.02	54,000
9.422	1013.94	1013.97	54,000
9.400	1013.89	1013.93	54,000
9.379	1013.85	1013.89	54,000
9.353	1013.80	1013.83	54,000
9.324	1013.73	1013.77	54,000
9.292	1013.65	1013.69	54,000
9.267	1013.60	1013.63	54,000
9.225	1013.55	1013.59	54,000
9.193	1013.51	1013.55	54,000
9.172	1013.50	1013.54	54,000
9.131	1013.47	1013.51	54,000
9.109	1013.45	1013.49	54,000
9.082	1013.44	1013.47	54,000
9.059	1013.42	1013.46	54,000
9.038	1013.40	1013.44	54,000
9.004	1013.35	1013.39	54,000
8.982	1013.31	1013.35	54,000
8.959	1013.27	1013.31	54,000
8.932	1013.22	1013.26	54,000
8.904	1013.13	1013.17	54,000
8.878	1013.04	1013.08	54,000
8.850	1012.88	1012.93	54,000
8.720	1010.97	1011.03	54,000

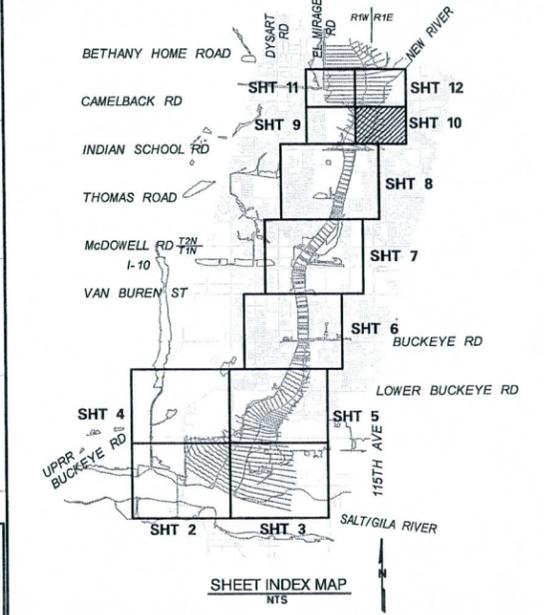
**LEGEND**

- 100-YR FLOODPLAIN LIMIT
- 100-YR FLOODWAY LIMIT
- EFFECTIVE 100-YR FLOODPLAIN LIMIT
- EFFECTIVE 100-YR FLOODWAY LIMIT
- HYDRAULIC BASE LINE
- CROSS SECTION WITH RIVER STATIONING
- BASE FLOOD ELEVATION
- FLOOD INSURANCE ZONE

1369 0.500

ZONE AE, AH, A

2' CONTOUR INTERVAL  
 HORIZONTAL DATUM: NAD83 STATE PLANE COORDINATE SYSTEM  
 VERTICAL DATUM: NORTH AMERICAN VERTICAL DATUM OF 1988 (NAVD 88)



DELINEATION UPSTREAM OF SECTION 8.850 COMPLETED BY JE FULLER HYDROLOGY & GEOMORPHOLOGY, DOCUMENTED IN THE REPORT "FLOODPLAIN DELINEATION STUDY FOR A PORTION OF THE AGUA FRIA RIVER, AGUA FRIA RIVER FROM 1800 FEET UPSTREAM (NORTH) OF CAMELBACK ROAD BRIDGE TO 1700 FEET UPSTREAM (NORTH) OF INDIAN SCHOOL ROAD BRIDGE", DATED JUNE 2011, FCD 2007C051 ASSIGNMENT 10

**Stanley Consultants Inc.**  
 1661 East Camelback Road, Suite 400, Phoenix, Arizona 85016  
 www.stanleygroup.com (602) 333-2300

ZONE "AE" AND "A" FLOODPLAIN / FLOODWAY DELINEATIONS BY STANLEY CONSULTANTS.  
 Expires 3-31-14

**WEST Seal Not Applicable**

**WEST CONSULTANTS INC.**  
 8950 South 52nd Street, Suite 210, Tempe, Arizona 85284  
 www.westconsultants.com (480) 945-2105

ZONE "AH" FLOODPLAIN DELINEATIONS BY WEST CONSULTANTS.

		BY	DATE
DESIGNED	JPM		08/11
DRAWN	LRJ		08/11
CHECKED	GSB		08/11

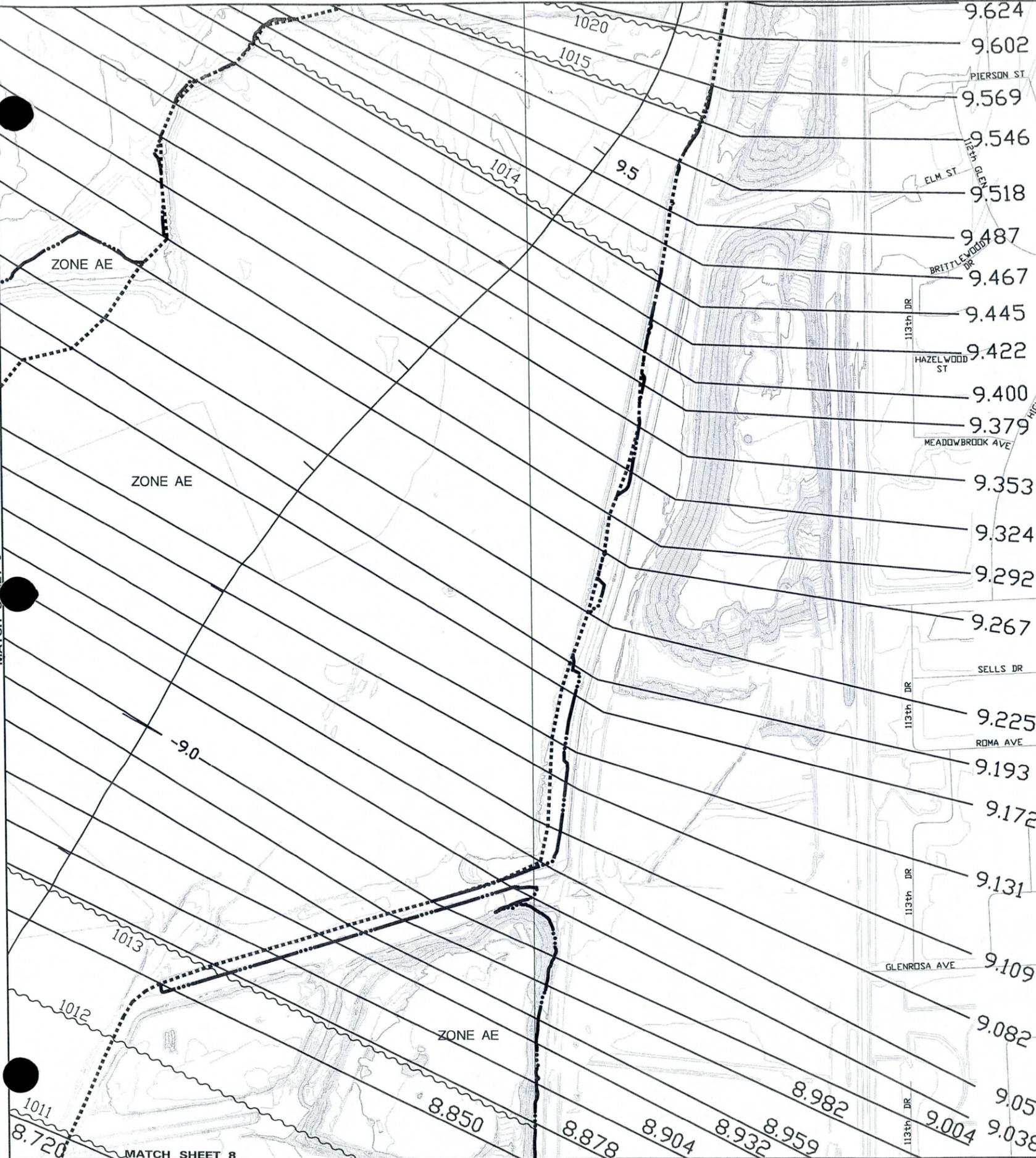
1661 East Camelback Road, Suite 400, Phoenix, Arizona 85016  
 www.stanleygroup.com (602) 333-2300  
 Stanley Consultants Inc.

AGUA FRIA RIVER

**Exhibit A**

SHEET 10 OF 12

SCALE: 1" = 200'  
 100 0 100 200



AERIAL MAPPING FROM RM 8.0 TO RM 2.13 SUPPLIED BY SANDORF MAP COMPANY, INC. GILLESPIE AREA DRAINAGE MASTER PLAN, PHASE I PROJECT SURVEY REPORT (ADMP), JULY 16, 2008, FCD 2007C045.  
 AERIAL MAPPING FROM RM 2.13 TO RM 8.49 SUPPLIED BY WILSON AND COMPANY, AGUA FRIA RIVER MAPPING AND SURVEY REPORT, JANUARY 21, 2011, FCD 2008C018.  
 AERIAL MAPPING FROM RM 8.49 TO RM 10.85 SUPPLIED BY COOPER AERIAL SURVEYS, MAPPING FOR AGUA FRIA WATERCOURSE MASTER PLAN, MARCH 24, 2009, FCD 2007C036.

In addition to the aerial mapping used in this re-study, ground survey data was collected by Stanley Consultants (Michael Fondren AZ RLS # 35113, Flood Control District of Maricopa County (John Stock AZ RLS # 25087), and Wilson & Company (Gregory Thompson AZ RLS # 42688). Please refer to Technical Data Notebook for complete documentation of these surveys.

River Sta	Floodplain W.S.E. (ft)	Floodway W.S.E. (ft)	Q Total (cfs)
10.046	1028.19	1028.19	54,000
9.961	1027.05	1027.06	54,000
9.869	1025.77	1025.77	54,000
9.792	1024.66	1024.67	54,000
9.725	1023.88	1023.90	54,000
9.710			54,000
9.704	1023.29	1023.32	54,000
9.686	1023.07	1023.10	54,000
9.663	1022.73	1022.71	54,000
9.643	1022.10	1022.10	54,000
9.624	1021.00	1021.06	54,000
9.602	1020.01	1019.98	54,000
9.569	1017.83	1017.85	54,000
9.546	1014.64	1014.64	54,000
9.518	1014.21	1014.23	54,000
9.487	1014.14	1014.16	54,000
9.467	1014.07	1014.10	54,000
9.445	1013.99	1014.02	54,000
9.422	1013.94	1013.97	54,000
9.400	1013.89	1013.93	54,000
9.379	1013.85	1013.89	54,000
9.353	1013.80	1013.83	54,000
9.324	1013.73	1013.77	54,000
9.292	1013.65	1013.69	54,000
9.267	1013.60	1013.63	54,000

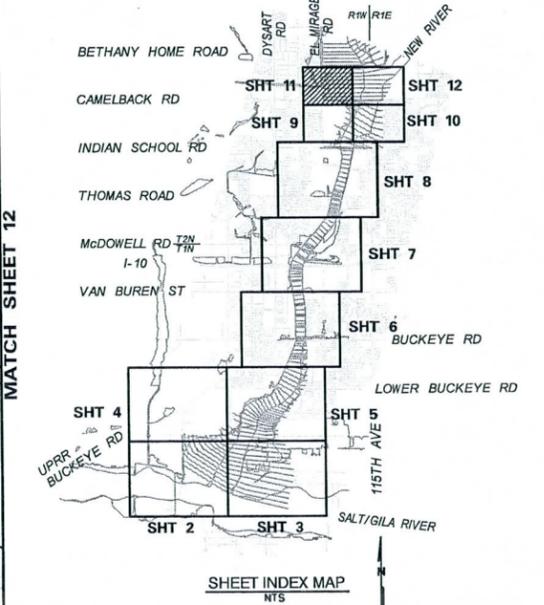
**LEGEND**

- 100-YR FLOODPLAIN LIMIT
- 100-YR FLOODWAY LIMIT
- EFFECTIVE 100-YR FLOODPLAIN LIMIT
- EFFECTIVE 100-YR FLOODWAY LIMIT
- HYDRAULIC BASE LINE
- CROSS SECTION WITH RIVER STATIONING
- BASE FLOOD ELEVATION
- FLOOD INSURANCE ZONE

0.500  
1369

ZONE AE, AH, A

2' CONTOUR INTERVAL  
 HORIZONTAL DATUM: NAD83 STATE PLANE COORDINATE SYSTEM  
 VERTICAL DATUM: NORTH AMERICAN VERTICAL DATUM OF 1988 (NAVD 88)



**Stanley Consultants Inc.**  
 1661 East Camelback Road, Suite 400, Phoenix, Arizona 85016  
 www.stanleygroup.com (602) 333-2200

ZONE "AE" AND "A" FLOODPLAIN / FLOODWAY DELINEATIONS BY STANLEY CONSULTANTS.

Expires 3-31-14

**WEST CONSULTANTS, INC.**  
 8950 South 52nd Street, Suite 210, Tempe, Arizona 85284  
 www.westconsultants.com (480) 945-2155

ZONE "AH" FLOODPLAIN DELINEATIONS BY WEST CONSULTANTS.

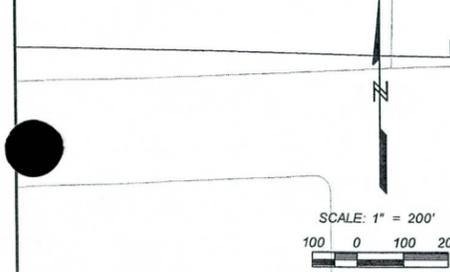
**Exhibit A**

	BY	DATE
DESIGNED	JPM	08/11
DRAWN	LRJ	08/11
CHECKED	GSB	08/11

1661 East Camelback Road, Suite 400, Phoenix, Arizona 85016  
 www.stanleygroup.com (602) 333-2200  
 Stanley Consultants Inc.

AGUA FRIA RIVER	SHEET 11 OF 12
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DELINEATION UPSTREAM OF SECTION 8.850 COMPLETED BY JE FULLER HYDROLOGY & GEOMORPHOLOGY, DOCUMENTED IN THE REPORT "FLOODPLAIN DELINEATION STUDY FOR A PORTION OF THE AGUA FRIA RIVER, AGUA FRIA RIVER FROM 1800 FEET UPSTREAM (NORTH) OF CAMELBACK ROAD BRIDGE TO 1700 FEET UPSTREAM (NORTH) OF INDIAN SCHOOL ROAD BRIDGE", DATED JUNE 2011, FCD 2007C051 ASSIGNMENT 10



AERIAL MAPPING FROM RM 8.0 TO RM 2.13 SUPPLIED BY SANBORN MAP COMPANY, INC., GILLESPIE AREA DRAINAGE MASTER PLAN, PHASE I PROJECT SURVEY REPORT (ADMP), JULY 16, 2008, FCD 2007C045.  
 AERIAL MAPPING FROM RM 2.13 TO RM 8.49 SUPPLIED BY WILSON AND COMPANY, AGUA FRIA RIVER MAPPING AND SURVEY REPORT, JANUARY 21, 2011, FCD 2008C018.  
 AERIAL MAPPING FROM RM 8.49 TO RM 10.85 SUPPLIED BY COOPER AERIAL SURVEYS, MAPPING FOR AGUA FRIA WATERCOURSE MASTER PLAN, MARCH 24, 2009, FCD 2007C038.

**GRAPHIC TIE IN TO CURRENT EFFECTIVE FLOODPLAIN / FLOODWAY PER FCD 95-05 AND LIMIT OF REVISED FLOODPLAIN MAPPING**

**LIMIT OF HEC-RAS MODEL**      **LIMIT OF DETAILED STUDY**

FCD 95-05 CROSS-SECTION 9.605  
 FCD 95-05 + 0.525 = 2007C053 RIVER MILES

MATCH SHEET 13 FCD 95-05

MATCH SHEET 9

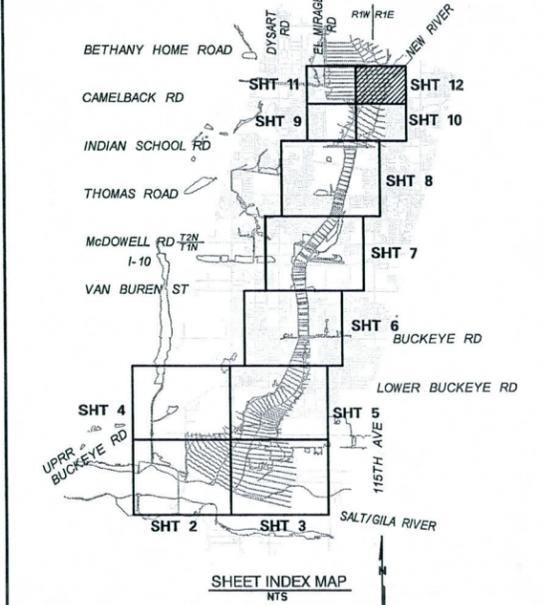
In addition to the aerial mapping used in this re-study, ground survey data was collected by Stanley Consultants (Michael Fonderren AZ RLS # 35113), Flood Control District of Maricopa County (John Stock AZ RLS # 25887), and Wilson & Company (Gregory Thompson AZ RLS # 42688). Please refer to Technical Data Notebook for complete documentation of these surveys.

**FLOOD CONTROL DISTRICT OF MARICOPA COUNTY**  
 Agua Fria River Floodplain Re-Delineation Study  
 FCD 2007C053 Assignment #3

**LEGEND**

100-YR FLOODPLAIN LIMIT	-----
100-YR FLOODWAY LIMIT	.....
EFFECTIVE 100-YR FLOODPLAIN LIMIT	-----
EFFECTIVE 100-YR FLOODWAY LIMIT	.....
HYDRAULIC BASE LINE	-----
CROSS SECTION WITH RIVER STATIONING	----- 0.500
BASE FLOOD ELEVATION	----- 1369
FLOOD INSURANCE ZONE	ZONE AE, AH, A

2' CONTOUR INTERVAL  
 HORIZONTAL DATUM: NAD83 STATE PLANE COORDINATE SYSTEM  
 VERTICAL DATUM: NORTH AMERICAN VERTICAL DATUM OF 1988 (NAVD 88)



River Sta	Floodplain W.S.E. (ft)	Floodway W.S.E. (ft)	Q Total (cfs)
10.046	1028.19	1028.19	54,000
9.961	1027.05	1027.06	54,000
9.869	1025.77	1025.77	54,000
9.792	1024.66	1024.67	54,000
9.725	1023.88	1023.90	54,000
9.710			54,000
9.704	1023.29	1023.32	54,000
9.686	1023.07	1023.10	54,000
9.663	1022.73	1022.71	54,000
9.643	1022.10	1022.10	54,000
9.624	1021.00	1021.06	54,000
9.602	1020.01	1019.98	54,000
9.569	1017.83	1017.85	54,000
9.546	1014.64	1014.64	54,000
9.518	1014.21	1014.23	54,000

DELINEATION UPSTREAM OF SECTION 8.850 COMPLETED BY JE FULLER HYDROLOGY & GEOMORPHOLOGY, DOCUMENTED IN THE REPORT "FLOODPLAIN DELINEATION STUDY FOR A PORTION OF THE AGUA FRIA RIVER, AGUA FRIA RIVER FROM 1800 FEET UPSTREAM (NORTH) OF CAMELBACK ROAD BRIDGE TO 1700 FEET UPSTREAM (NORTH) OF INDIAN SCHOOL ROAD BRIDGE", DATED JUNE 2011, FCD 2007C051 ASSIGNMENT 10

**Stanley Consultants Inc.**  
 1661 East Camelback Road, Suite 400, Phoenix, Arizona 85016  
 www.stanleygroup.com (602) 333-2200

ZONE 'AE' AND 'A' FLOODPLAIN / FLOODWAY DELINEATIONS BY STANLEY CONSULTANTS.  
 Expires 3-31-14

**WEST CONSULTANTS INC.**  
 8950 South 52nd Street, Suite 210, Tempe, Arizona 85284  
 www.westconsultants.com (480) 945-2125

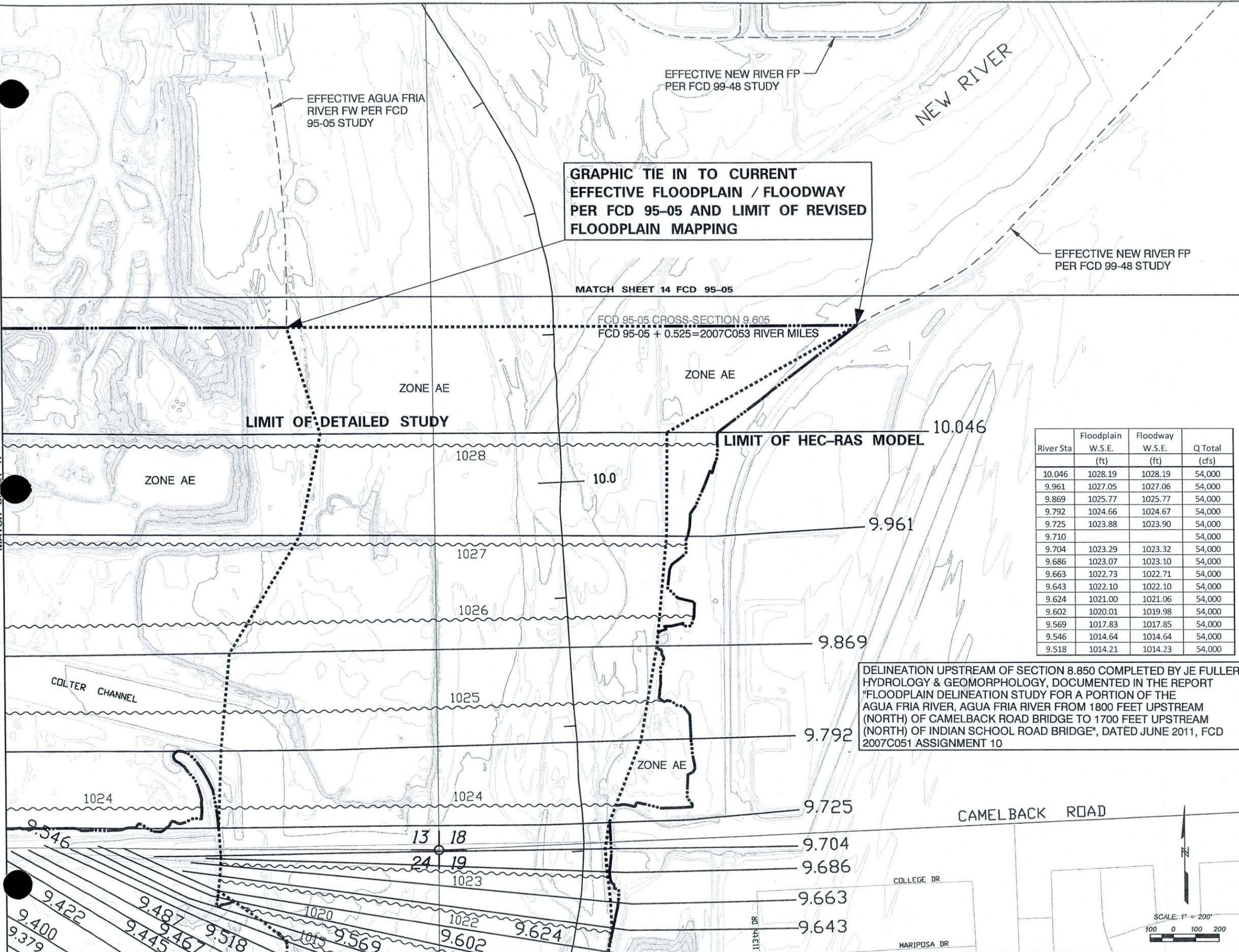
ZONE 'AH' FLOODPLAIN DELINEATIONS BY WEST CONSULTANTS.

**Exhibit A**

	BY	DATE
DESIGNED	JPM	08/11
DRAWN	LRJ	08/11
CHECKED	GSB	08/11

1661 East Camelback Road, Suite 400, Phoenix, Arizona 85016  
 www.stanleygroup.com (602) 333-2200  
 Stanley Consultants Inc.

AGUA FRIA RIVER	SHEET 12 OF 12
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AERIAL MAPPING FROM RM 8.0 TO RM 2.13 SUPPLIED BY SANBORN MAP COMPANY, INC., DILLISPIE AREA DRAINAGE MASTER PLAN, PHASE I PROJECT SURVEY REPORT (ADMP), JULY 16, 2000, FCD 2007C045.  
 AERIAL MAPPING FROM RM 2.13 TO RM 8.48 SUPPLIED BY WILSON AND COMPANY, AGUA FRIA RIVER MAPPING AND SURVEY REPORT, JANUARY 21, 2011, FCD 2008C018.  
 AERIAL MAPPING FROM RM 8.48 TO RM 10.05 SUPPLIED BY COOPER AERIAL SURVEYS, MAPPING FOR AGUA FRIA WATERCOURSE MASTER PLAN, MARCH 24, 2009, FCD 2007C038.

In addition to the aerial mapping used in this re-study, ground survey data was collected by Stanley Consultants (Michael Forderan AZ RLS # 35113), Flood Control District of Maricopa County (John Stock AZ RLS # 25087), and Wilson & Company (Gregory Thompson AZ RLS # 42688). Please refer to Technical Data Notebook for complete documentation of these surveys.

Q:\21205\Assn.3-Lower-Agua-Fria-River\11-CADD\83-Civ\21205.c12.dwg

**Agua Fria River Floodplain Re-Delineation  
From Salt/Gila River to New River**

**ANNOTATED FIRM PANELS**

**NOTES TO USERS**

This map is for use in administering the National Flood Insurance Program. It does not necessarily identify all areas subject to flooding, particularly from local drainage sources of small size. The community map repository should be consulted for possible updated or additional flood hazard information.

To obtain more detailed information in areas where Base Flood Elevations (BFEs) and/or floodways have been determined, users are encouraged to consult the Flood Profiles, Floodway Data and/or Summary of Stillwater Elevations tables contained within the Flood Insurance Study (FIS) report that accompanies this FIRM. Users should be aware that BFEs shown on the FIS report are rounded whole-foot elevations. These BFEs are intended for flood insurance rating purposes only and should not be used as the sole source of flood elevation information. Accordingly, flood elevation data presented in the FIS report should be utilized in conjunction with the FIS report for purposes of construction and/or floodplain management.

Coastal Base Flood Elevations shown on this map apply only to landward of 0.0 National Geodetic Vertical Datum of 1929 (NGVD 29). Users of this FIRM should be aware that coastal flood elevations are also provided in the Summary of Stillwater Elevations table in the Flood Insurance Study report for this jurisdiction. Elevations shown in the Summary of Stillwater Elevations table should be used for construction and/or floodplain management purposes when they are higher than the elevations shown on this FIRM.

Boundaries of the Floodways were computed at cross sections and interpolated between cross sections. The floodways were based on hydraulic considerations with regard to requirements of the National Flood Insurance Program. Floodway widths and other pertinent floodway data are provided in the Flood Insurance Study report for this jurisdiction.

Certain areas not in Special Flood Hazard Areas may be protected by flood control structures. Refer to Section 2.4 "Flood Protection Measures" of the Flood Insurance Study report for information on flood control structures for this jurisdiction.

The projection used in the preparation of this map was Arizona State Plane Zone 3176 (central Arizona). The horizontal datum was NAD83, GRS80 spheroid. Differences in datum, spheroid, projection or State Plane zones used in the production of FIRMs for adjacent jurisdictions may result in slight positional differences in map features across jurisdiction boundaries. These differences do not affect the accuracy of this FIRM.

Flood elevations on this map are referenced to the National Geodetic Vertical Datum of 1929. These flood elevations must be compared to structure and ground elevations referenced to the same vertical datum. For information regarding conversion between the National Geodetic Vertical Datum of 1929 and the North American Vertical Datum of 1988, visit the National Geodetic Survey website at <http://www.ngs.noaa.gov> or contact the National Geodetic Survey at the following address:

Spatial Reference System Division  
National Geodetic Survey, NOAA  
Silver Spring Metro Center  
1315 East-West Highway  
Silver Spring, Maryland 20910  
(301) 713-3151

To obtain current elevation, description, and/or location information for bench marks shown on this map, please contact the Information Services Branch of the National Geodetic Survey at (301) 713-3242, or visit its website at <http://www.ngs.noaa.gov>.

Base map information shown on this FIRM was derived from multiple sources. Base map files were provided in digital format by Maricopa County. Orthophoto images were produced at a scale of 1:8000 using HARN for control. Aerial photography is dated December 2000 to December 2002.

This map reflects more detailed and up-to-date stream channel configurations than those shown on the previous FIRM for this jurisdiction. The floodplains and floodways that were transferred from the previous FIRM may have been adjusted to conform to these new stream channel configurations. As a result, the Flood Profiles and Floodway Data tables in the Flood Insurance Study report (which contains authoritative hydraulic data) may reflect stream channel distances that differ from what is shown on this map.

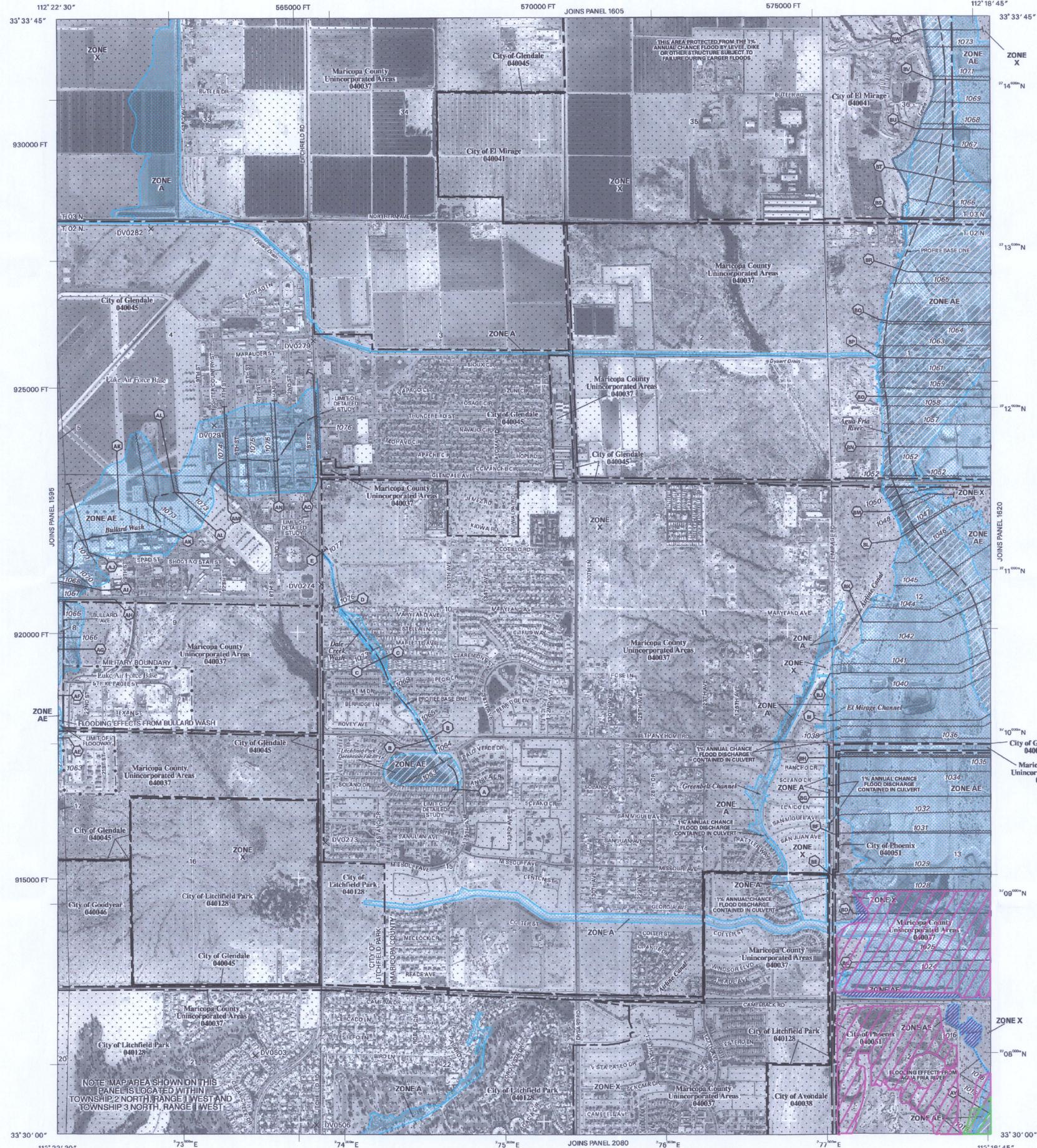
Corporate limits shown on this map are based on the best data available at the time of publication. Because changes due to annexations or de-annexations may have occurred after this map was published, map users should contact appropriate community officials to verify current corporate limit locations.

Please refer to the separately printed Map Index for an overview map of the county showing the layout of map panels; community map repository addresses; and a listing of Communities table containing National Flood Insurance Program dates for each community as well as a listing of the panels on which each community is located.

Contact the FEMA Map Service Center at 1-800-358-9816 for information on available products associated with this FIRM. Available products may include previously issued Letters of Map Change, a Flood Insurance Study report, and/or digital versions of this map. The FEMA Map Service Center may also be reached by Fax at 1-800-358-9520 and its website at <http://www.fema.gov>.

If you have questions about this map or questions concerning the National Flood Insurance Program in general, please contact 1-877-FEMAMAP (1-877-336-2627) or visit the FEMA website at <http://www.fema.gov>.

-  Proposed "AE" Floodway Limits by Stanley Consultants
-  Proposed "AE" Floodplain Limits by Stanley Consultants
-  Area to be Removed From Floodplain



**LEGEND**

**SPECIAL FLOOD HAZARD AREAS SUBJECT TO INUNDATION BY THE 1% ANNUAL CHANCE FLOOD**

The 1% annual chance flood (100-year flood), also known as the base flood, is the flood that has a 1% chance of being equaled or exceeded in any given year. The Special Flood Hazard Areas are the areas subject to flooding by the 1% annual chance flood. Areas of Special Flood Hazard include Zones A, AE, AH, AO, AR, AV, and VE. The Base Flood Elevation is the water-surface elevation of the 1% annual chance flood.

**ZONE A** No Base Flood Elevations determined.

**ZONE AE** Base Flood Elevations determined.

**ZONE AH** Flood depths of 1 to 3 feet (usually areas of ponding); Base Flood Elevations determined.

**ZONE AO** Flood depths of 1 to 3 feet (usually areas of ponding); average depths determined. For areas of alluvial fan flooding, velocities also determined.

**ZONE AR** Special Flood Hazard Areas formerly protected from the 1% annual chance flood by a flood control system that was substantially destroyed. Zone AR indicates that the former flood control system is being restored to provide protection from the 1% annual chance or greater flood.

**ZONE AV** Area to be protected from 1% annual chance flood by a Federal flood project or system under construction; no Base Flood Elevations determined.

**ZONE VE** Coastal flood zone with velocity hazard (wave action); no Base Flood Elevations determined.

**FLOODWAY AREAS IN ZONE AE**

The floodway is the channel of a stream plus any adjacent floodplain areas that must be kept free of encroachment so that the 1% annual chance flood can be carried without substantial increases in flood heights.

**OTHER FLOOD AREAS**

**ZONE X** Areas of 0.2% annual chance flood; areas of 1% annual chance flood with average depths of less than 1 foot or with drainage areas less than 1 square mile, and areas protected by levees from 1% annual chance flood.

**OTHER AREAS**

**ZONE Y** Areas determined to be outside the 0.2% annual chance floodplain.

**ZONE D** Areas in which flood hazards are undetermined, but possible.

**COASTAL BARRIER RESOURCES SYSTEM (CBRS) AREAS**

**OTHERWISE PROTECTED AREAS (OPAs)**

CBRS areas and OPAs are normally located within or adjacent to Special Flood Hazard Areas.

- 1% annual chance floodplain boundary
- 0.2% annual chance floodplain boundary
- Floodway boundary
- Zone D boundary
- CBRS and OPA boundary
- Boundary dividing Special Flood Hazard Area Zones, and boundary dividing Special Flood Hazard Areas of different Base Flood Elevations, flood depth, or flood velocities.
- Base Flood Elevation line and value; elevation in feet
- Base Flood Elevation value where uniform within zone; elevation in feet

\* Referenced to the National Geodetic Vertical Datum of 1929

- Cross section line
- Transect line

112° 07' 08" - 112° 07' 41" Geographic coordinates referenced to the North American Datum of 1983 (NAD 83), Western Hemisphere.

- 1000-meter Universal Transverse Mercator grid tick value zone 12
- 5000-foot grid tick value; Arizona State Plane coordinate system, central zone (FIPS ZONE 3176) NAD83 (Transverse Mercator)
- Bench mark (see explanation in Notes to Users section of this FIRM panel)
- River Mile

**MAP REPOSITORY**

Refer to Repositories Listing on Map Index

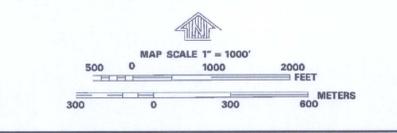
**EFFECTIVE DATE OF COUNTYWIDE FLOOD INSURANCE RATE MAP**  
April 15, 1988

**EFFECTIVE DATE(S) OF REVISION(S) TO THIS PANEL**  
September 29, 1989, September 4, 1991, December 3, 1993, September 30, 1995

September 30, 2005 - to update corporate limits, to change Base Flood Elevations, to add Special Flood Hazard Areas, to add Special Flood Hazard Areas, to change Special Flood Hazard Areas, to change zone designations, to add roads and names, to incorporate previously issued Letters of Map Revision, and to incorporate previously issued Letters of Map Amendment.

For community map revision history prior to countywide mapping, refer to the Community Map History table located in the Flood Insurance Study report for this jurisdiction.

To determine if flood insurance is available in this community, contact your insurance agent or call the National Flood Insurance Program at 1-800-638-6623.



**NATIONAL FLOOD INSURANCE PROGRAM**

**PANEL 1615K**

**FIRM FLOOD INSURANCE RATE MAP**  
**MARICOPA COUNTY, ARIZONA**  
**AND INCORPORATED AREAS**

**PANEL 1615 OF 4350**

(SEE MAP INDEX FOR FIRM PANEL LAYOUT)

**CONTAINS:**

COMMUNITY	NUMBER	PANEL	SUFFIX
ARIZONA, CITY OF	040098	1615	K
BUENA VISTA, CITY OF	040041	1615	K
BUENA VISTA, CITY OF	040046	1615	K
BUENA VISTA, CITY OF	040048	1615	K
LITCHFIELD PARK, CITY OF	040128	1615	K
MARICOPA COUNTY	040037	1615	K
PHOENIX, CITY OF	040051	1615	K

Notice to User: The Map Number shown below should be used when placing map orders. The Community Number shown above should be used on insurance applications for the subject community.



**MAP NUMBER**  
**04013C1615K**  
**MAP REVISED**  
**SEPTEMBER 30, 2005**  
Federal Emergency Management Agency

**NOTES TO USERS**

This map is for use in administering the National Flood Insurance Program. It does not necessarily identify all areas subject to flooding, particularly from local drainage sources of small size. The community map repository should be consulted for possible updated or additional flood hazard information.

To obtain more detailed information in areas where Base Flood Elevations (BFEs) and/or Floodway Data and/or Summary of Stillwater Elevations tables contained within the Flood Insurance Study (FIS) report that accompanies this FIRM, users should be aware that BFEs shown on the FIRM represent rounded whole-foot elevations. These BFEs are intended for flood insurance rating purposes only and should not be used as the sole source of flood elevation information. Accordingly, flood elevation data presented in the FIS report should be utilized in conjunction with the FIRM for purposes of construction and/or floodplain management.

Coastal Base Flood Elevations shown on this map apply only to landward of 0.0' National Geodetic Vertical Datum of 1929 (NGVD 29). Users of this FIRM should be aware that coastal flood elevations are also provided in the Summary of Stillwater Elevations table in the Flood Insurance Study report for this jurisdiction. Elevations shown in the Summary of Stillwater Elevations table should be used for construction and/or floodplain management purposes when they are higher than the elevations shown on this FIRM.

Boundaries of the floodways were computed at cross sections and interpolated between cross sections. The floodways were based on hydraulic considerations with regard to requirements of the National Flood Insurance Program. Floodway widths and other pertinent floodway data are provided in the Flood Insurance Study report for this jurisdiction.

Certain areas not in Special Flood Hazard Areas may be protected by flood control structures. Refer to Section 2.4 "Flood Protection Measures" of the Flood Insurance Study report for information on flood control structures for this jurisdiction.

The projection used in the preparation of this map was Arizona State Plane Zone 3176 (Central Arizona). The horizontal datum was NAD83, GRS80 spheroid. Differences in datum, spheroid, projection or State Plane zones used in the production of FIRMs for adjacent jurisdictions may result in slight positional differences in map features across jurisdiction boundaries. These differences do not affect the accuracy of this FIRM.

Flood elevations on this map are referenced to the National Geodetic Vertical Datum of 1929. These flood elevations must be compared to structures and ground elevations referenced to the same vertical datum. For information regarding conversions between the National Geodetic Vertical Datum of 1929 and the North American Vertical Datum of 1988, visit the National Geodetic Survey website at <http://www.ngs.noaa.gov> or contact the National Geodetic Survey at the following address:

Spatial Reference System Division  
National Geodetic Survey, NOAA  
Silver Spring Metro Center  
1315 East-West Highway  
Silver Spring, Maryland 20910  
(301) 713-3191

To obtain current elevation, description, and/or location information for bench marks shown on this map, please contact the Information Services Branch of the National Geodetic Survey at (301) 713-3242, or visit its website at <http://www.ngs.noaa.gov>.

Base map information shown on this FIRM was derived from multiple sources. Base map files were provided in digital format by Maricopa County. Orthophoto images were produced at a scale of 1:8000 using HARN for control. Aerial photography is dated December 2000 to December 2002.

This map reflects more detailed and up-to-date stream channel configurations than those shown on the previous FIRM for this jurisdiction. The floodplains and floodways that were transferred from the previous FIRM may have been adjusted to conform to these new stream channel configurations. As a result, the Flood Profiles and Floodway Data tables in the Flood Insurance Study report (which contains authoritative hydraulic data) may reflect stream channel distances that differ from what is shown on this map.

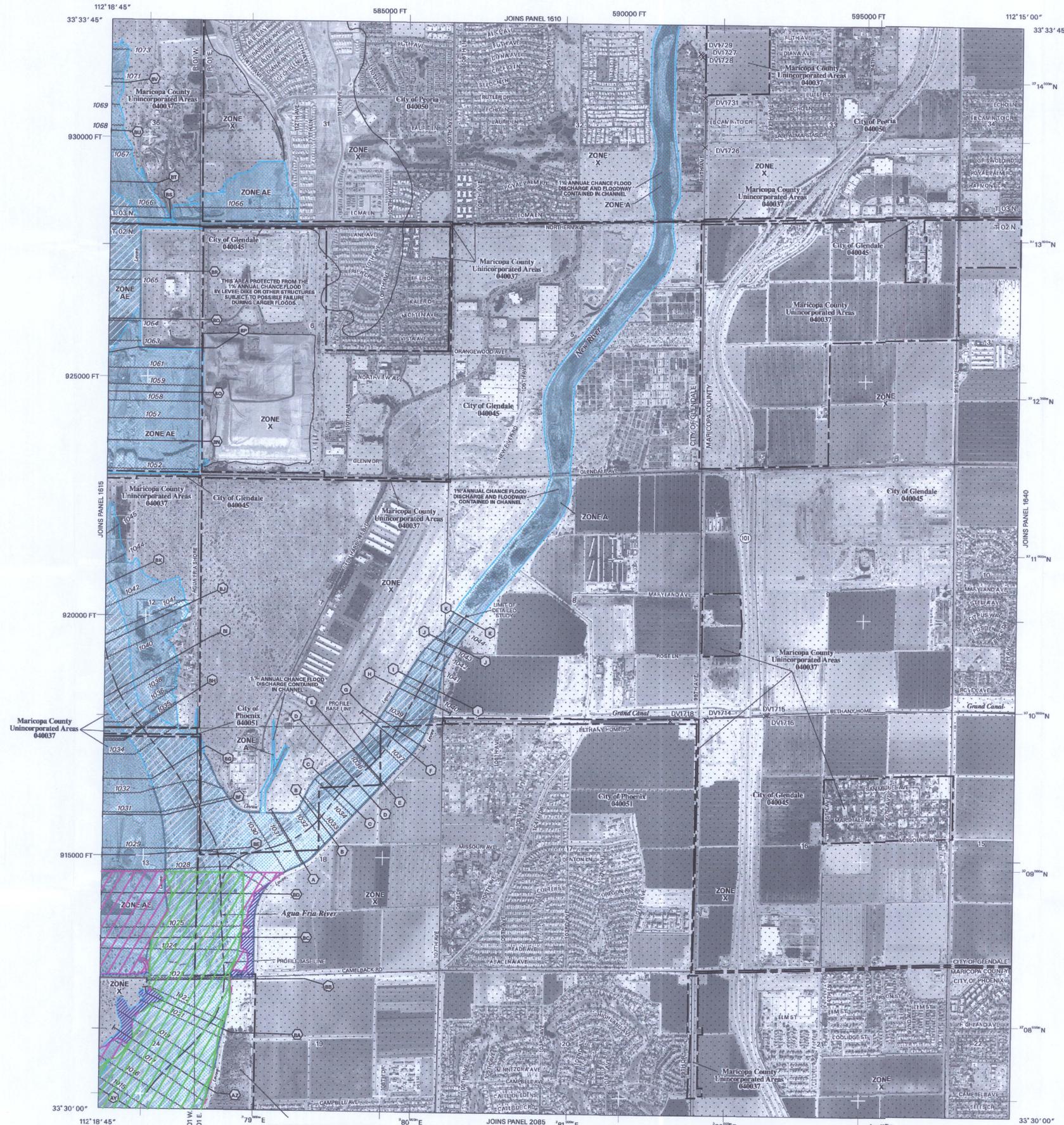
Corporate limits shown on this map are based on the best data available at the time of publication. Because changes due to annexations or de-annexations may have occurred after this map was published, map users should contact appropriate community officials to verify current corporate limit locations.

Please refer to the separately printed Map Index for an overview map of the county showing the layout of map panels; community map repository addresses; and a Listing of Communities table containing National Flood Insurance Program dates for each community as well as a listing of the panels on which each community is located.

Contact the FEMA Map Service Center at 1-800-358-9616 for information on available products associated with this FIRM. Available products may include previously issued Letters of Map Change, a Flood Insurance Study report, and/or digital versions of this map. The FEMA Map Service Center may also be reached by Fax at 1-800-358-9629 and its website at <http://www.fema.gov>.

If you have questions about this map, or questions concerning the National Flood Insurance Program in general, please call 1-877-FEMAMAP (1-877-336-2627) or visit the FEMA website at <http://www.fema.gov>.

-  Proposed "AE" Floodway Limits by Stanley Consultants
-  Proposed "AE" Floodplain Limits by Stanley Consultants
-  Area to be Removed From Floodplain



**LEGEND**

**SPECIAL FLOOD HAZARD AREAS SUBJECT TO INUNDATION BY THE 1% ANNUAL CHANCE FLOOD**

The 1% annual chance flood (100-year flood), also known as the base flood, is the flood that has a 1% chance of being equaled or exceeded in any given year. The Special Flood Hazard Area is the area subject to flooding by the 1% annual chance flood. Areas of Special Flood Hazard include Zones A, AE, AH, AO, AR, A99, V and VE. The Base Flood Elevation is the water-surface elevation of the 1% annual chance flood.

**ZONE A** No Base Flood Elevations determined.

**ZONE AE** Base Flood Elevations determined.

**ZONE AH** Flood depths of 1 to 3 feet (usually areas of ponding); Base Flood Elevations determined.

**ZONE AO** Flood depths of 1 to 3 feet (usually sheet flow on sloping terrain); average depths determined. For areas of channel (or flooding) velocities also determined.

**ZONE AR** Special Flood Hazard Area formerly protected from the 1% annual chance flood by a flood control system that was subsequently abandoned. Zone AR indicates that the former flood control system is being protected to provide protection from the 1% annual chance or greater flood.

**ZONE A99** Area to be protected from 1% annual chance flood by a Federal flood protection system under construction; no Base Flood Elevations determined.

**ZONE V** Coastal flood zone with velocity hazard (wave action); no Base Flood Elevations determined.

**ZONE VE** Coastal flood zone with velocity hazard (wave action); Base Flood Elevations determined.

**FLOODWAY AREAS IN ZONE AE**

The floodway is the channel of a stream plus any adjacent floodplain areas that must be kept free of encroachments so that the 1% annual chance flood can be carried without substantial increases in flood heights.

**OTHER FLOOD AREAS**

**ZONE X** Areas of 0.2% annual chance flood; areas of 1% annual chance flood with average depths of less than 1 foot or with storage areas less than 1 square mile; flood areas protected by levees from 1% annual chance flood.

**OTHER AREAS**

**ZONE X** Areas determined to be outside the 0.2% annual chance floodplain.

**ZONE D** Areas in which flood hazards are undetermined, but possible.

**COASTAL BARRIER RESOURCES SYSTEM (CBRS) AREAS**

**OTHERWISE PROTECTED AREAS (OPAs)**

CBRS areas and OPAs are normally located within or adjacent to Special Flood Hazard Areas.

-  1% annual chance floodplain boundary
-  0.2% annual chance floodplain boundary
-  Floodway boundary
-  Zone D boundary
-  CBRS and OPA boundary
-  Boundary dividing Special Flood Hazard Areas, and boundary dividing Special Flood Hazard Areas of different Base Flood Elevations, flood depths, or flood velocities.
-  Base Flood Elevation line and value elevation in feet.
-  Base Flood Elevation value where uniform within zone; elevation in feet.

\* Referenced to the National Geodetic Vertical Datum of 1929

**A**  **A** Cross section line

**2**  **2** Transsect line

**112° 07' 08", 33° 26' 41"** Geographic coordinates referenced to the North American Datum of 1983 (NAD 83), Western Hemisphere.

**76° E** 1000-meter Universal Transverse Mercator grid tick values zone 12.

**875000 FT** 8000-foot grid tick values: Arizona State Plane coordinate system, central zone (FIPS/ZONE 3176) NAD83 (Transverse Mercator)

**X/DV2313** Bench mark (see explanation in Notes to Users section of this FIRM panel)

**MLS** River Mile

**MAP REPOSITORY**  
Refer to Repositories Listing on Map Index

**EFFECTIVE DATE OF COUNTYWIDE FLOOD INSURANCE RATE MAP**  
April 15, 1988

**EFFECTIVE DATE(S) OF REVISION(S) TO THIS PANEL**  
September 29, 1989, September 4, 1991, July 19, 2001

September 30, 2005 - to update corporate limits, to change Base Flood Elevations, to add Special Flood Hazard Areas, to change Special Flood Hazard Areas, to change zone designations, to add roads and road names, to incorporate previously issued Letters of Map Revision, and to incorporate previously issued Letters of Map Amendment.

For community map revision history prior to countywide mapping, refer to the Community Map History table located in the Flood Insurance Study report for this jurisdiction.

To determine if flood insurance is available in this community, contact your insurance agent or call the National Flood Insurance Program at 1-800-638-6920.

**MAP SCALE 1" = 1000'**

**500 0 1000 2000 3000 FEET**

**300 0 300 600 METERS**

**NATIONAL FLOOD INSURANCE PROGRAM**

**PANEL 1620H**

**FIRM FLOOD INSURANCE RATE MAP MARICOPA COUNTY, ARIZONA AND INCORPORATED AREAS**

**PANEL 1620 OF 4350**

(SEE MAP INDEX FOR FIRM PANEL LAYOUT)

**CONTAINS:**

COMMUNITY	NUMBER	PANEL	SUFFIX
CHANDLER, CITY OF	040018	1620	H
MARICOPA COUNTY	040037	1620	H
PHOENIX, CITY OF	040050	1620	H
SCOTTSDALE, CITY OF	040051	1620	H

Notice to User: The Map Worksheet label should be used when placing map orders. The Community/Panel numbers above should be used on insurance applications for the subject community.

**MAP NUMBER 04013C1620H**

**MAP REVISED SEPTEMBER 30, 2005**

Federal Emergency Management Agency

**NOTES TO USERS**

This map is for use in administering the National Flood Insurance Program. It does not necessarily identify all areas subject to flooding, particularly from local drainage sources of small size. The community map repository should be consulted for possible updates or additional flood hazard information.

To obtain more detailed information in areas where Base Flood Elevations (BFEs) and/or floodway limits have been determined, users are encouraged to consult the Flood Profiles, Floodway Data and/or Summary of Stillwater Elevations tables contained within the Flood Insurance Study (FIS) report that accompanies this FIRM. Users should be aware that BFEs shown on the FIRM represent rounded whole-foot elevations. These BFEs are intended for flood insurance rating purposes only and should not be used as the sole source of flood elevation information. Accordingly, flood elevation data presented in the FIS report should be utilized in conjunction with the FIRM for purposes of construction and/or floodplain management.

Coastal Base Flood Elevations shown on this map apply only to landward of 0.0' National Geodetic Vertical Datum of 1929 (NGVD 29). Users of this FIRM should be aware that coastal flood elevations are also provided in the Summary of Stillwater Elevations table in the Flood Insurance Study report for this jurisdiction. Elevations shown in the Summary of Stillwater Elevations table should be used for construction and/or floodplain management purposes when they are higher than the elevations shown on this FIRM.

Boundaries of the floodways were computed at cross sections and interpolated between cross sections. The floodways were based on hydraulic considerations with regard to requirements of the National Flood Insurance Program. Floodway widths and other pertinent floodway data are provided in the Flood Insurance Study report for this jurisdiction.

Certain areas not in Special Flood Hazard Areas may be protected by flood control structures. Refer to Section 2.4 "Flood Protection Measures" of the Flood Insurance Study report for information on flood control structures for this jurisdiction.

The projection used in the preparation of this map was Arizona State Plane Zone 3176 (central Arizona). The horizontal datum was NAD83, GRS80 spheroid. Differences in datum, spheroid, projection or State Plane zones used in the production of FIRMs for adjacent jurisdictions may result in slight positional differences in map features across jurisdiction boundaries. These differences do not affect the accuracy of this FIRM.

Flood elevations on this map are referenced to the National Geodetic Vertical Datum of 1929. These flood elevations must be compared to structure and ground elevations referenced to the same vertical datum. For information regarding conversion between the National Geodetic Vertical Datum of 1929 and the North American Vertical Datum of 1988, visit the National Geodetic Survey website at <http://www.ngs.noaa.gov> or contact the National Geodetic Survey at the following address:

Spatial Reference System: Division  
National Geodetic Survey, NOKA  
Silver Spring Metro Center  
1315 East-West Highway  
Silver Spring, Maryland 20910  
(301) 713-3191

To obtain current elevation, description, and/or location information for bench marks shown on this map, please contact the Information Services Branch of the National Geodetic Survey at (301) 713-3242, or visit its website at <http://www.ngs.noaa.gov>.

Base map information shown on this FIRM was derived from multiple sources. Base map files were provided in digital format by Maricopa County. Orthophoto images were produced at a scale of 1:8000 using HARN for control. Aerial photography is dated December 2000 to December 2002.

This map reflects more detailed and up-to-date stream channel configurations than those shown on the previous FIRM for this jurisdiction. The floodplains and floodways that were transferred from the previous FIRM may have been adjusted to conform to these new stream channel configurations. As a result, the Flood Profiles and Floodway Data tables in the Flood Insurance Study report (which contains authoritative hydraulic data) may reflect stream channel distances that differ from what is shown on this map.

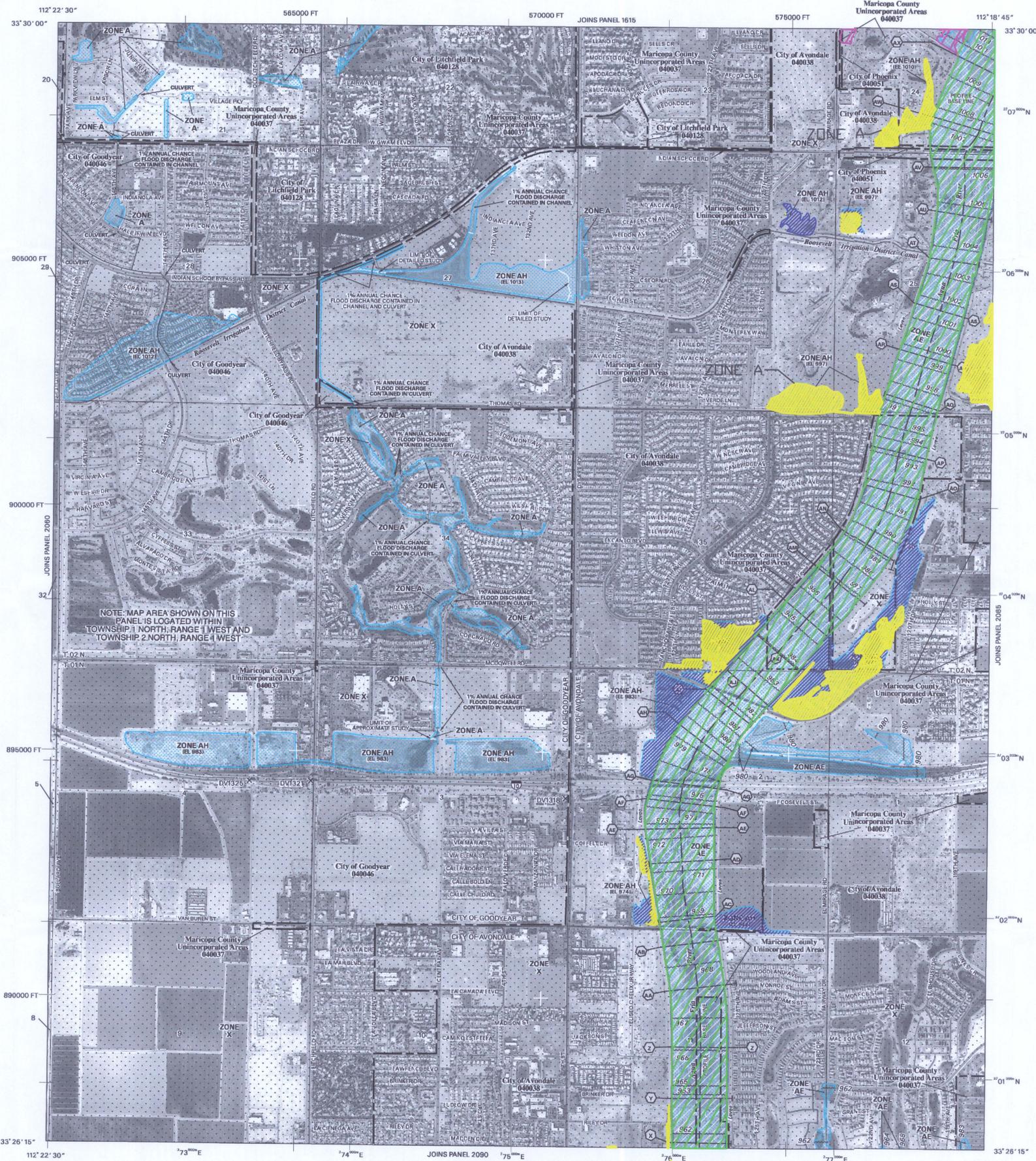
Corporate limits shown on this map are based on the best data available at the time of publication. Because changes due to annexations or de-annexations may have occurred after this map was published, map users should contact appropriate community officials to verify current corporate limit locations.

Please refer to the separately printed Map Index for an overview map of the county showing the layout of map panels, community map repository addresses, and a Listing of Communities table containing National Flood Insurance Program dates for each community as well as a listing of the panels on which each community is located.

Contact the FEMA Map Service Center at 1-800-358-9616 for information on available products associated with this FIRM. Available products may include previously issued Letters of Map Change, a Flood Insurance Study report, and/or digital versions of this map. The FEMA Map Service Center may also be reached by Fax at 1-800-358-9620 and its website at <http://www.msc.fema.gov>.

If you have questions about this map or questions concerning the National Flood Insurance Program in general, please call 1-877-FEMAMAP (1-877-336-2627) or visit the FEMA website at <http://www.fema.gov>.

-  Proposed "AE" Floodway Limits by Stanley Consultants
-  Proposed "AE" Floodplain Limits by Stanley Consultants
-  Area to be Removed From Floodplain
-  Proposed "A" and "AH" Floodplain Limits by WEST Consultants



**LEGEND**

**SPECIAL FLOOD HAZARD AREAS SUBJECT TO INUNDATION BY THE 1% ANNUAL CHANCE FLOOD**

The 1% annual chance flood (100-year flood), also known as the base flood, is the flood that has a 1% chance of being equaled or exceeded in any given year. The Special Flood Hazard Area is the area subject to flooding by the 1% annual chance flood. Areas of Special Flood Hazard include Zones A, AE, AH, AO, AR, AV, and VE. The Base Flood Elevation is the water-surface elevation of the 1% annual chance flood.

**ZONE A** No Base Flood Elevations determined.

**ZONE AE** Base Flood Elevations determined.

**ZONE AH** Flood depths of 1 to 3 feet (usually areas of ponding); Base Flood Elevations determined.

**ZONE AO** Flood depths of 1 to 3 feet (usually about flow on sloping terrain); average depths determined. For areas of alluvial fan flooding, velocities also determined.

**ZONE AR** Special Flood Hazard Area formerly protected from the 1% annual chance flood by a flood control system that was subsequently abandoned. Zone AR indicates that the former flood control system is being retained to provide protection from the 1% annual chance or greater flood.

**ZONE AV** Area to be protected from 1% annual chance flood by a Federal flood protection system under construction, as Base Flood Elevations determined.

**ZONE V** Coastal flood zone with velocity hazard (wave action); no Base Flood Elevations determined.

**ZONE VE** Coastal flood zone with velocity hazard (wave action); Base Flood Elevations determined.

**FLOODWAY AREAS IN ZONE AE**

The floodway is the channel of a stream plus any adjacent floodplain areas that must be kept free of encroachment so that the 1% annual chance flood can be carried without substantial increases in flood heights.

**OTHER FLOOD AREAS**

**ZONE X** Areas of 0.2% annual chance flood; areas of 1% annual chance flood with average depths of less than 1 foot or with drainage areas less than 1 square mile and areas protected by areas from 1% annual chance flood.

**OTHER AREAS**

**ZONE X** Areas determined to be outside the 0.2% annual chance floodplain.

**ZONE D** Areas in which flood hazards are undetermined, but possible.

**COASTAL BARRIER RESOURCES SYSTEM (CBRS) AREAS**

**OTHER PROTECTED AREAS (OPAs)**

CBRS areas and OPAs are normally located within or adjacent to Special Flood Hazard Areas.

-  1% annual chance floodplain boundary
-  0.2% annual chance floodplain boundary
-  Floodway boundary
-  Zone D boundary
-  CBRS and OPA boundary
-  Boundary dividing Special Flood Hazard Area Zones, and boundary dividing Special Flood Hazard Areas of different Base Flood Elevations, flood depths, or flood velocities.
-  Base Flood Elevation line and value, elevation in feet \* (E1929)
-  Base Flood Elevation in value where uniform within zone; elevation in feet \* (E1987)
-  Cross section line
-  Transverse line

112° 07' 08", 33° 26' 41" Geographic coordinates referenced to the North American Datum of 1983 (NAD 83), Western Hemisphere.

\* 76°-E 1000-meter Universal Transverse Mercator grid tick value zone 12.

5000-foot grid tick values, Arizona State Plane coordinate system, central zone (FIPS/ZONE 3176) NAD83 (Transverse Mercator)

Batch name (see explanation in Notes to Users section of this FIRM panel)

\* M.L.S. River Mile

**MAP REPOSITORY**

Refer to Repositories Listing on Map Index

**EFFECTIVE DATE OF COUNTY-WIDE FLOOD INSURANCE RATE MAP**

April 15, 1988

**EFFECTIVE DATE(S) OF REVISION(S) TO THIS PANEL**

September 28, 1988, September 4, 1991, September 30, 1995, July 19, 2001

September 30, 2005: to update corporate limits, to change Base Flood Elevations, to add Base Flood Elevations, to add Special Flood Hazard Areas, to change Special Flood Hazard Areas, to change zone designations, to add roads and road names, to incorporate previously issued Letters of Map Revision, and to incorporate previously issued Letters of Map Amendment.

For community map revision history prior to countywide mapping, refer to the Community Map History table located in the Flood Insurance Study report for this jurisdiction.

To determine if Flood Insurance is available in this community, contact your insurance agent or call the National Flood Insurance Program at 1-800-638-6626.

**NATIONAL FLOOD INSURANCE PROGRAM**

**PANEL 2080J**

**FIRM FLOOD INSURANCE RATE MAP MARICOPA COUNTY, ARIZONA AND INCORPORATED AREAS**

**PANEL 2080 OF 4350**

SEE MAP INDEX FOR FIRM PANEL LAYOUTS

**CONTAINS:**

COMMUNITY	NUMBER	PANEL	SUFFIX
AVONDALE, CITY OF	040038	2080	J
GOODYEAR, CITY OF	040045	2080	J
LITCHFIELD PARK, CITY OF	040128	2080	J
MARICOPA COUNTY	040037	2080	J
PHOENIX, CITY OF	040051	2080	J

Notice to User: The Map Numbers shown below should be used when placing map orders; the Community Numbers shown above should be used on insurance applications for the subject community.

**MAP NUMBER 04013C2080J**

**MAP REVISED SEPTEMBER 30, 2005**

Federal Emergency Management Agency

**NOTES TO USERS**

This map is for use in administering the National Flood Insurance Program. It does not necessarily identify all areas subject to flooding, particularly from local drainage sources of small size. The community map repository should be consulted for possible updated or additional flood hazard information.

To obtain more detailed information on areas where **Base Flood Elevations (BFEs)** and/or **floodways** have been determined, users are encouraged to consult the Flood Profiles, Floodway Data and/or Summary of Stillwater Elevations tables contained within the Flood Insurance Study (FIS) report that accompanies this FIRM. Users should be aware that BFEs shown on the FIRM represent rounded whole-foot elevations. These BFEs are intended for flood insurance rating purposes only and should not be used as the sole source of flood elevation information. Accordingly, flood elevation data presented in the FIS report should be utilized in conjunction with the FIRM for purposes of construction and/or floodplain management.

**Coastal Base Flood Elevations** shown on this map apply only to landward of D.D. National Geodetic Vertical Datum of 1929 (NGVD 29). Users of this FIRM should be aware that coastal flood elevations are also provided in the Summary of Stillwater Elevations table in the Flood Insurance Study report for this jurisdiction. Elevations shown in the Summary of Stillwater Elevations table should be used for construction and/or floodplain management purposes when they are higher than the elevations shown on this FIRM.

Boundaries of the **floodways** were computed at cross sections and interpolated between cross sections. The floodways were based on hydraulic considerations with regard to requirements of the National Flood Insurance Program. Floodway widths and other pertinent floodway data are provided in the Flood Insurance Study report for this jurisdiction.

Certain areas not in Special Flood Hazard Areas may be protected by **flood control structures**. Refer to Section 2.4 "Flood Protection Measures" of the Flood Insurance Study report for information on flood control structures for this jurisdiction.

The **projection** used in the preparation of this map was *Arizona State Plane Zone 3176 (Central Arizona)*. The horizontal datum was *NAD83 (GRS80 spheroid)*. Differences in datum, spheroid, projection or State Plane zones used in the production of FIRMs for adjacent jurisdictions may result in slight positional differences in map features across jurisdiction boundaries. These differences do not affect the accuracy of this FIRM.

Flood elevations on this map are referenced to the *National Geodetic Vertical Datum of 1929*. These flood elevations must be compared to structure and ground elevations referenced to the same vertical datum. For information regarding conversions between the National Geodetic Vertical Datum of 1929 and the North American Vertical Datum of 1988, visit the National Geodetic Survey website at <http://www.ngs.noaa.gov> or contact the National Geodetic Survey at the following address:

Spatial Reference System Division  
National Geodetic Survey, NOAA  
Silver Spring Metro Center  
1315 East-West Highway  
Silver Spring, Maryland 20910  
(301) 713-3191

To obtain current elevation, description, and/or location information for **bench marks** shown on this map, please contact the Information Services Branch of the National Geodetic Survey at (301) 713-3242, or visit its website at <http://www.ngs.noaa.gov>.

**Base map** information shown on this FIRM was derived from multiple sources. Base map files were provided in digital format by Maricopa County. Orthophoto images were produced at a scale of 1:8000 using IMAV for control. Aerial photography is dated December 2000 to December 2002.

This map reflects more detailed and up-to-date stream channel configurations than those shown on the previous FIRM for this jurisdiction. The floodplains and floodways that were transferred from the previous FIRM may have been adjusted to conform to these new stream channel configurations. As a result, the Flood Profiles and Floodway Data tables in the Flood Insurance Study report (which contains authoritative hydraulic data) may reflect stream channel distances that differ from what is shown on this map.

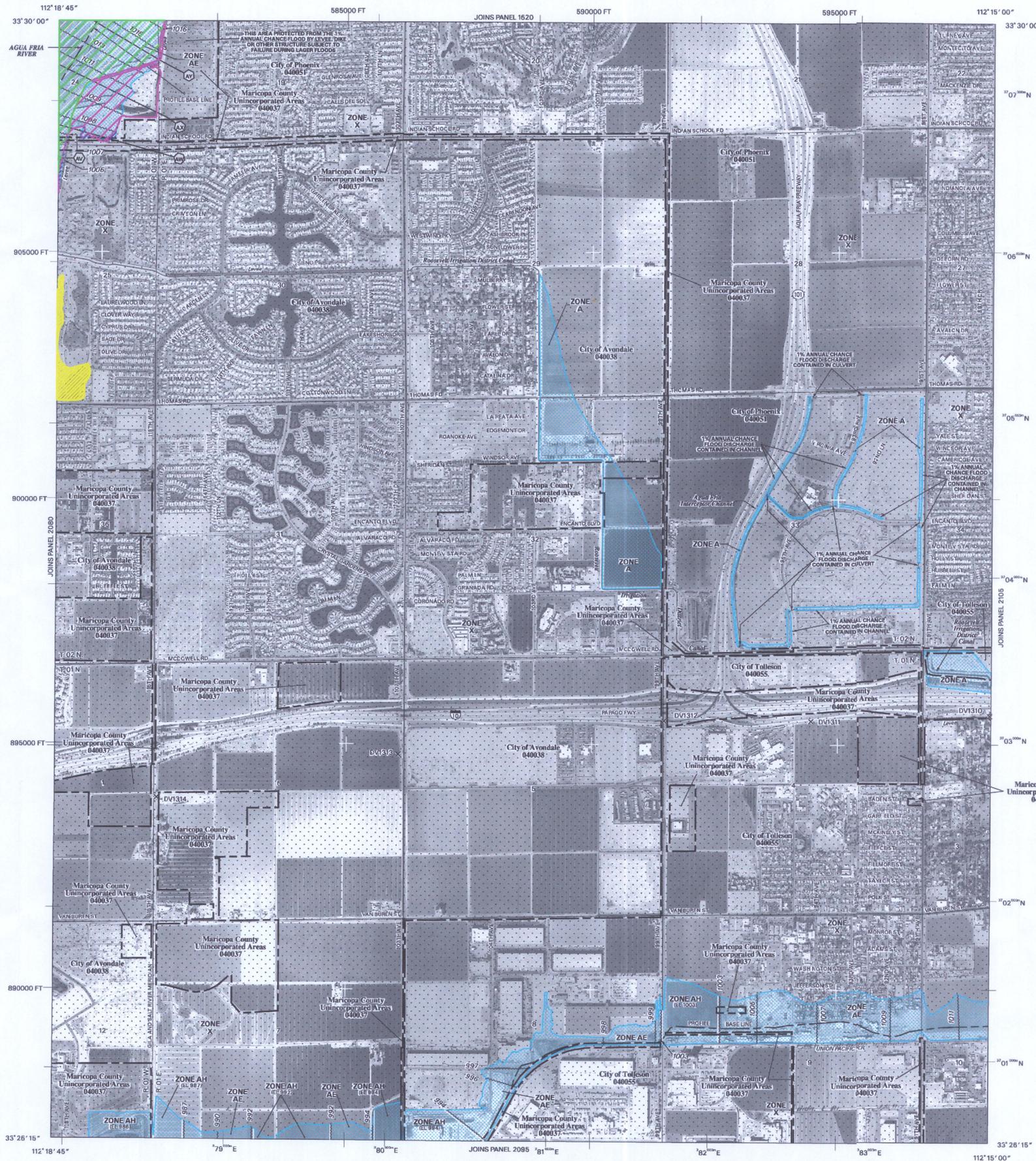
**Corporate limits** shown on this map are based on the best data available at the time of publication. Because changes due to annexations or de-annexations may have occurred after this map was published, map users should contact appropriate community officials to verify current corporate limit locations.

Please refer to the separately printed **Map Index** for an overview map of the county showing the layout of map panels, community map repository addresses, and a Listing of Communities table containing National Flood Insurance Program dates for each community as well as a listing of the panels on which each community is located.

Contact the **FEMA Map Service Center** at 1-800-368-6818 for information on available products associated with this FIRM. Available products may include previously issued Letters of Map Change, a Flood Insurance Study report, and/or digital versions of this map. The FEMA Map Service Center may also be reached by Fax at 1-800-368-6620 and its website at <http://www.msc.fema.gov/>.

If you have **questions about this map** or questions concerning the National Flood Insurance Program in general, please call 1-877-FEMAMAP (1-877-336-2627) or visit the FEMA website at <http://www.fema.gov/>.

-  Proposed "AE" Floodway Limits by Stanley Consultants
-  Proposed "AE" Floodplain Limits by Stanley Consultants
-  Area to be Removed From Floodplain
-  Proposed "AH" Floodplain Limits by WEST Consultants



**LEGEND**

**SPECIAL FLOOD HAZARD AREAS SUBJECT TO INUNDATION BY THE 1% ANNUAL CHANCE FLOOD**

The 1% annual chance flood (100-year flood) is the flood that has a 1% chance of being equaled or exceeded in any given year. The Special Flood Hazard Area is the area subject to flooding by the 1% annual chance flood. Areas of Special Flood Hazard include Zones A, AE, AH, AD, AR, AO, and VE. The Base Flood Elevation is the water-surface elevation of the 1% annual chance flood.

- ZONE A** No Base Flood Elevations determined.
- ZONE AE** Base Flood Elevations determined.
- ZONE AH** Flood depths of 1 to 3 feet (usually areas of ponding); Base Flood Elevations determined.
- ZONE AO** Flood depths of 1 to 3 feet (usually sheet flow on sloping terrain); average depths determined. For areas of alluvial fan flooding, velocities also determined.
- ZONE AR** Special Flood Hazard Area formerly protected from the 1% annual chance flood by a flood control system that was subsequently discontinued. Zone AR indicates that the former flood control system is being restored to provide protection from the 1% annual chance or greater flood.
- ZONE A99** Area to be protected from 1% annual chance flood by a federal flood protection system under construction; no Base Flood Elevations determined.
- ZONE V** Coastal flood zone with velocity hazard (wave action); no Base Flood Elevations determined.
- ZONE VE** Coastal flood zone with velocity hazard (wave action); Base Flood Elevations determined.

**FLOODWAY AREAS IN ZONE AE**

The floodway is the channel of a stream plus any adjacent floodplain areas that must be kept free of encroachment so that the 1% annual chance flood can be carried without substantial increases in flood heights.

**OTHER FLOOD AREAS**

- ZONE X** Areas of 0.2% annual chance flood; areas of 1% annual chance flood with average depths of less than 1 foot or with drainage areas less than 1 square mile, and areas protected by levees from the 0.2% annual chance flood.
- OTHER AREAS**
- ZONE X** Areas determined to be outside the 0.2% annual chance floodplain.
- ZONE D** Areas in which flood hazards are undetermined, but possible.

**COASTAL BARRIER RESOURCES SYSTEM (CBRS) AREAS**

**OTHERWISE PROTECTED AREAS (OPAs)**

CBRS areas and OPAs are normally located within or adjacent to Special Flood Hazard Areas.

- 1% annual chance floodplain boundary
- 0.2% annual chance floodplain boundary
- Floodway boundary
- Zone D boundary
- CBRS and OPA boundary
- Boundary defining Special Flood Hazard Area Zones, and boundary defining Special Flood Hazard Areas of different Base Flood Elevations, Flood depths, or flood velocities.
- Base Flood Elevation line and value, elevation in feet.
- Base Flood Elevation value where uniform within zone, elevation in feet.

\* Referenced to the National Geodetic Vertical Datum of 1929

- Cross section line
- Transect line

112° 07' 08"; 33° 25' 41"

76° E

875000 FT

XDV2313

\* MSL

MAP REPOSITORY

Refer to Repositories Listing on Map Index

EFFECTIVE DATE OF COUNTY-WIDE FLOOD INSURANCE RATE MAP

April 16, 1988

EFFECTIVE DATE(S) OF REVISION(S) TO THIS PANEL

September 4, 1991, July 19, 2001

September 30, 2008 - to update corporate limits, to change Base Flood Elevations, to add Base Flood Elevations, to add Special Flood Hazard Areas, to change Special Flood Hazard Areas, to change zone designations, to add roads and road names, to incorporate previously issued Letters of Map Revision, and to incorporate previously issued Letters of Map Amendment.

For community map revision history prior to countywide mapping, refer to the Community Map History table located in the Flood Insurance Study report for this jurisdiction.

To determine if flood insurance is available in this community, contact your insurance agent or call the National Flood Insurance Program at 1-800-338-6620.

**MAP SCALE 1" = 1000'**

500 0 1000 2000 FEET

300 0 300 600 METERS

**NFIP**

**PANEL 2085G**

**FIRM FLOOD INSURANCE RATE MAP MARICOPA COUNTY, ARIZONA AND INCORPORATED AREAS**

**PANEL 2085 OF 4350**

(SEE MAP INDEX FOR FIRM PANEL LAYOUT)

CONTAINS:

COMMUNITY	NUMBER	PANEL	SUFFIX
AVONDALE, CITY OF	040038	2085	G
MARICOPA COUNTY	040037	2085	G
PHOENIX, CITY OF	040039	2085	G
TOLSON, CITY OF	040055	2085	G

Notice to User: The Map Numbers shown below should be used when placing map orders. The Community Numbers shown above should be used on insurance applications for the subject community.

**MAP NUMBER 04013C2085G**

**MAP REVISED**

**SEPTEMBER 30, 2005**

Federal Emergency Management Agency

**NOTES TO USERS**

This map is for use in administering the National Flood Insurance Program. It does not necessarily identify all areas subject to flooding, particularly from local drainage sources of small size. The community map repository should be consulted for possible updated or additional flood hazard information.

To obtain more detailed information in areas where Base Flood Elevations (BFEs) and/or floodways have been determined, users are encouraged to consult the Flood Profiles, Floodway Data and/or Summary of Stillwater Elevations tables contained within the Flood Insurance Study (FIS) report that accompanies this FIRM. Users should be aware that BFEs shown on the FIRM represent rounded whole-foot elevations. These BFEs are intended for flood insurance rating purposes only and should not be used as the sole source of flood elevation information. Accordingly, flood elevation data presented in the FIS report should be utilized in conjunction with the FIRM for purposes of construction and/or floodplain management.

Coastal Base Flood Elevations shown on this map apply only to landward of 0.5 National Geodetic Vertical Datum of 1929 (NGVD 29). Users of this FIRM should be aware that coastal flood elevations are also provided in the Summary of Stillwater Elevations tables in the Flood Insurance Study report for this jurisdiction. Elevations shown in the Summary of Stillwater Elevations table should be used for construction and/or floodplain management purposes when they are higher than the elevations shown on this FIRM.

Boundaries of the floodways were computed at cross sections and interpolated between cross sections. The floodways were based on hydrologic considerations with regard to requirements of the National Flood Insurance Program. Floodway widths and other pertinent floodway data are provided in the Flood Insurance Study report for this jurisdiction.

Certain areas not in Special Flood Hazard Areas may be protected by flood control structures. Refer to Section 2.4 "Flood Protection Measures" of the Flood Insurance Study report for information on flood control structures for this jurisdiction.

The projection used in the preparation of this map was Arizona State Plane Zone 3176 (Central Arizona). The horizontal datum was NAD83, GRS80 spheroid. Differences in datum, spheroid, projection or State Plane zones used in the production of FIRMs for adjacent jurisdictions may result in slight positional differences in map features across jurisdiction boundaries. These differences do not affect the accuracy of this FIRM.

Flood elevations on this map are referenced to the National Geodetic Vertical Datum of 1929. These flood elevations must be compared to structure and ground elevations referenced to the same vertical datum. For information regarding conversion between the National Geodetic Vertical Datum of 1929 and the North American Vertical Datum of 1988, visit the National Geodetic Survey website at <http://www.ngs.noaa.gov> or contact the National Geodetic Survey at the following address:

Spatial Reference System Division  
National Geodetic Survey, NOAA  
Silver Spring Metro Center  
1315 East-West Highway  
Silver Spring, Maryland 20910  
(301) 713-3191

To obtain current elevation, description, and/or location information for bench marks shown on this map, please contact the Information Services Branch of the National Geodetic Survey at (301) 713-3242, or visit its website at <http://www.ngs.noaa.gov>.

Base map information shown on this FIRM was derived from multiple sources. Base map files were provided in digital format by Maricopa County. Orthophoto images were produced at a scale of 1:5000 using HARN for control. Aerial photography is dated December 2000 to December 2002.

This map reflects more detailed and up-to-date stream channel configurations than those shown on the previous FIRM for this jurisdiction. The floodplains and floodways that were transferred from the previous FIRM may have been adjusted to conform to these new stream channel configurations. As a result, the Flood Profiles and Floodway Data tables in the Flood Insurance Study report (which contains authoritative hydraulic data) may reflect stream channel distances that differ from what is shown on this map.

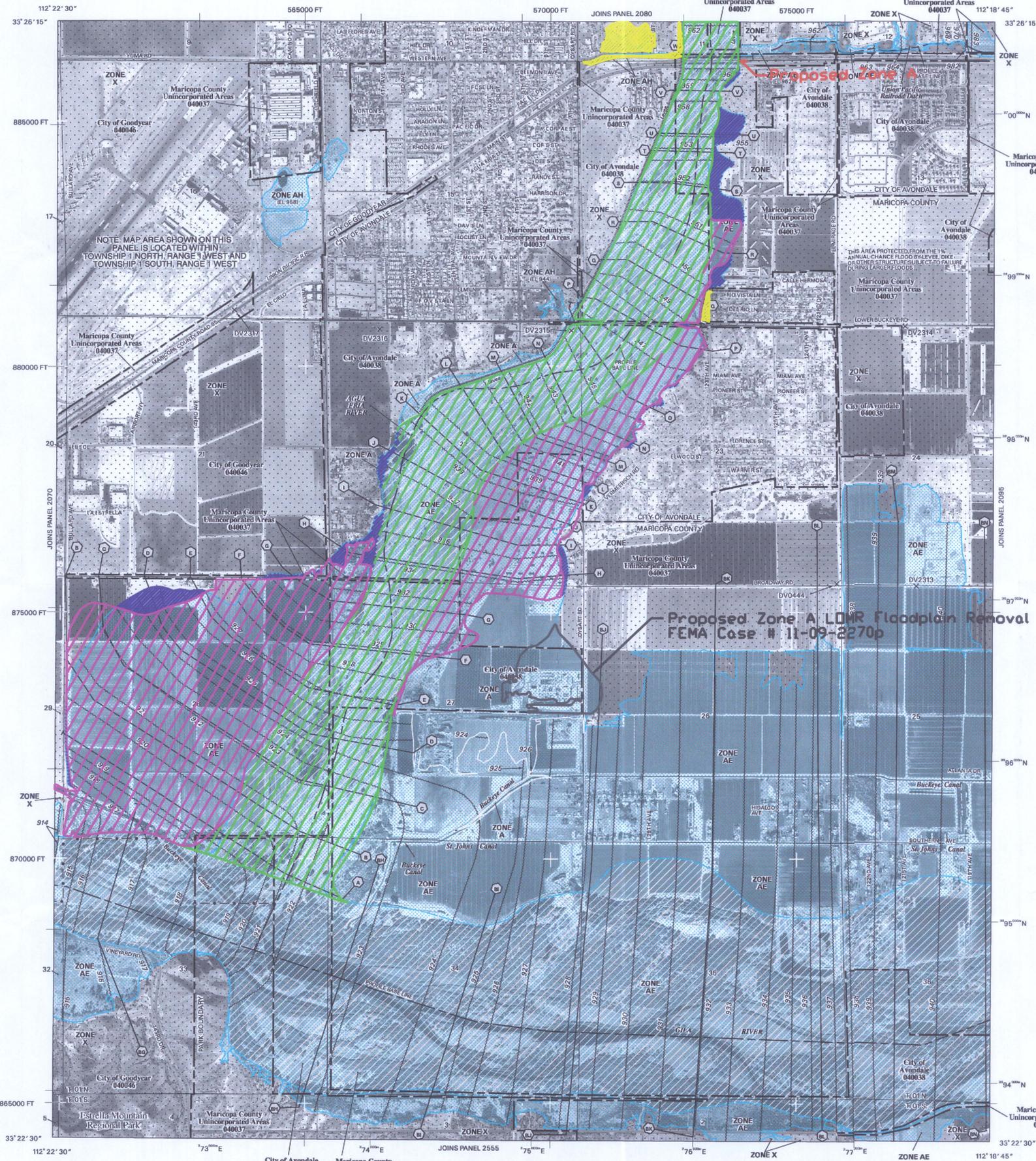
Corporate limits shown on this map are based on the best data available at the time of publication. Because changes due to annexations or de-annexations may have occurred after this map was published, map users should contact appropriate community officials to verify current corporate limit locations.

Please refer to the separately printed Map Index for an overview map of the county showing the layout of map panels; community map repository addresses; and a listing of Communities table containing National Flood Insurance Program dates for each community as well as a listing of the panels on which each community is located.

Contact the FEMA Map Service Center at 1-800-358-9616 for information on available products associated with this FIRM. Available products may include previously issued Letters of Map Change, a Flood Insurance Study report, and/or digital versions of this map. The FEMA Map Service Center may also be reached by Fax at 1-800-358-9620 and its website at <http://www.msc.fema.gov/>.

If you have questions about this map or questions concerning the National Flood Insurance Program in general, please call 1-877-FEMAMAP (1-877-336-2627) or visit the FEMA website at <http://www.fema.gov/>.

-  Proposed "AE" Floodway Limits by Stanley Consultants
-  Proposed "AE" Floodplain Limits by Stanley Consultants
-  Area to be Removed From Floodplain
-  Proposed "A" Floodplain Limits by Stanley Consultants
-  Proposed "AH" Floodplain Limits by WEST Consultants



**LEGEND**

**SPECIAL FLOOD HAZARD AREAS SUBJECT TO INUNDATION BY THE 1% ANNUAL CHANCE FLOOD**  
The 1% annual chance flood (100-year flood), also known as the base flood, is the flood that has a 1% chance of being equaled or exceeded in any given year. The Special Flood Hazard Areas in this area subject to flooding by the 1% annual chance flood. Areas of Special Flood Hazard include Zones A, AE, AH, AO, AR, AV, V and VE. The Base Flood Elevation is the water-surface elevation of the 1% annual chance flood.

- ZONE A No Base Flood Elevations determined.
- ZONE AE Base Flood Elevations determined.
- ZONE AH Flood depths of 1 to 3 feet (usually areas of ponding); Base Flood Elevations determined.
- ZONE AO Flood depths of 1 to 3 feet (usually sheet flow on sloping terrain); average depths determined. For areas of alluvial fan flooding, velocities also determined.
- ZONE AR Special Flood Hazard Area formerly protected from the 1% annual chance flood by a flood control system that was subsequently abandoned. Zone AR indicates that the former flood control system is being restored to provide protection from the 1% annual chance or greater flood.
- ZONE AV Area to be protected from 1% annual chance flood by a Federal flood protection system under construction; no Base Flood Elevations determined.
- ZONE V Coastal flood zone with velocity hazard (wave action); no Base Flood Elevations determined.
- ZONE VE Coastal flood zone with velocity hazard (wave action); Base Flood Elevations determined.

**FLOODWAY AREAS IN ZONE AE**  
The floodway is the channel of a stream plus any adjacent floodplain areas that must be kept free of encroachment so that the 1% annual chance flood can be carried without substantial increases in flood heights.

**OTHER FLOOD AREAS**

- ZONE X Areas of 0.2% annual chance flood; areas of 1% annual chance flood with average depths of less than 1 foot or with drainage areas less than 1 square mile; and areas protected by levees from 1% annual chance flood.
- ZONE D Areas determined to be outside the 0.2% annual chance floodplain.
- ZONE O Areas in which flood hazards are undetermined, but possible.

**COASTAL BARRIER RESOURCES SYSTEM (CBRS) AREAS**  
**OTHER PROTECTED AREAS (OPAs)**

CBRS areas and OPAs are normally located within or adjacent to Special Flood Hazard Areas.

- 1% annual chance floodplain boundary
- 0.2% annual chance floodplain boundary
- Floodway boundary
- Zone D boundary
- Zone O boundary
- CBRS and OPA boundary
- Boundary defining Special Flood Hazard Area Zones and boundary dividing Special Flood Hazard Areas of different Base Flood Elevations, flood depths, or flood velocities.
- Base Flood Elevation line and value; elevation in feet.
- Base Flood Elevation on value where uniform within zone; elevation in feet.

\* Referenced to the National Geodetic Vertical Datum of 1929

- Cross section line
- Transient line

112° 07' 08", 33° 26' 41" Geographic coordinates referenced to the North American Datum of 1983 (NAD 83), Western Hemisphere.

476° 00' 00" 1000-meter Universal Transverse Mercator grid tick values zone 12

875000 FT 5000-foot grid tick values; Arizona State Plane coordinate system, central zone (FIPS ZONE 3176) NAD83 (Transverse Mercator)

X DV2313 Bench mark; (see explanation in Notes to Users section of this FIRM panel)

\* M.S. River Mile

**MAP REPOSITORY**  
Refer to Repositories Listing on Map Index

**EFFECTIVE DATE OF COUNTY-WIDE FLOOD INSURANCE RATE MAP**  
April 16, 1988

**EFFECTIVE DATE(S) OF REVISION(S) TO THIS PANEL**  
September 4, 1991; September 30, 1995; July 18, 2001

September 30, 2005 - to update corporate limits, to change Base Flood Elevations, to add Base Flood Elevations, to add Special Flood Hazard Areas, to change Special Flood Hazard Areas, to change zone designations, to add roads and road names, to incorporate previously issued Letters of Map Revision, and to incorporate previously issued Letters of Map Amendment.

For community map revision history prior to countywide mapping, refer to the Community Map History table located in the Flood Insurance Study report for this jurisdiction.

To determine if flood insurance is available in this community, contact your insurance agent or call the National Flood Insurance Program at 1-800-358-9620.

**MAP SCALE 1" = 1000'**  
500 0 1000 2000 FEET  
300 0 300 600 METERS

**NATIONAL FLOOD INSURANCE PROGRAM**

**PANEL 2090H**

**FIRM FLOOD INSURANCE RATE MAP MARICOPA COUNTY, ARIZONA AND INCORPORATED AREAS**

**PANEL 2090 OF 4350**  
(SEE MAP INDEX FOR FIRM PANEL LAYOUT)

**CONTAINS:**

COMMUNITY	NUMBER	PANEL	SUFFIX
AVONDALE, CITY OF	040038	2090	H
GOODYEAR, CITY OF	040046	2090	H
MARICOPA COUNTY	040037	2090	H

Notice to User: The Map Numbers shown below should be used when placing this notice. The Community Number shown above should be used on insurance applications for the subject community.

**MAP NUMBER 04013C2090H**  
**MAP REVISED**  
**SEPTEMBER 30, 2005**  
Federal Emergency Management Agency