

APPENDIX 11-XX

NECK ARROYO POST-MINING HYDROLOGY & SEDIMENTOLOGY
(2 YR-6 HR, 10 YR-6 HR, 25 YR-6 HR, &100 YR-6 HR STORM EVENTS)

January 1988

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***** WATERSHED NETWORK *****

JUNCTIONS	BRANCHES	STRUCTURES
1	1	1 2

***** SEDIMENTOLOGY INPUTS *****

Specific Gravity =	2.3
Submerged Bulk Specific Gravity =	1.25

***** PERCENT FINER DISTRIBUTIONS: *****

NO.	PARTICLE SIZE, (mm)	NO. 1	NO. 2	NO. 3	NO. 4
1	2.0000	100.00	100.00	100.00	100.00
2	0.1000	83.50	75.90	30.00	26.50
3	0.0500	77.00	70.00	17.00	14.00
4	0.0020	56.00	47.00	11.00	11.00
5	0.0010	0.00	0.00	0.00	0.00

***** BETWEEN STRUCTURE ROUTING PARAMETERS *****

J	B		TRAVEL TIME (hours)	MUSK. K (hours)	MUSK. X
1	1	Prior J or S to Structure 1	0.000	0.000	0.000
1	1	Prior J or S to Structure 2	0.673	0.673	0.348

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**
**      JUNCTION 1 , BRANCH 1 , STRUCTURE 1
**      NULL STRUCTURE
**      J1 B1 S1
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SUBWATERSHED INFORMATION

HYDRAULIC INPUT VALUES

WATER SHED	AREA (acre)	CURVE NUMBER	TC (hr)	TT (hr)	ROUTING COEF'S K-(hr)	X	UNIT HYDRO RESPONSE
1	251.61	81.90	0.741	0.049	0.049	0.367	MED
2	85.40	89.00	0.357	0.172	0.172	0.361	MED
3	153.35	89.00	0.544	0.049	0.049	0.367	MED
4	97.34	89.00	0.193	0.000	0.000	0.000	MED
5	89.99	82.90	0.151	0.000	0.000	0.000	MED

SEDIMENT INPUT VALUES

WATER SHED	SEG NUM	SOIL K	LENGTH (feet)	SLOPE (%)	CP VALUE	PART OPT
1	1	0.32	300.0	5.0	0.450	1 (MUSLE)
2	1	0.37	200.0	10.0	0.450	1 (MUSLE)
3	1	0.37	400.0	10.0	0.450	1 (MUSLE)
4	1	0.37	400.0	10.0	0.450	1 (MUSLE)
5	1	0.33	400.0	10.0	0.450	1 (MUSLE)

COMPUTED VALUES FOR INDIVIDUAL WATERSHEDS

WATERSHED	PEAK FLOW (cfs)	RUNOFF (inches)	SEDIMENT (tons)	D50 (mm)
1	4.553	0.047	48.03	0.001
2	11.717	0.166	133.51	0.001
3	16.490	0.166	317.33	0.001
4	17.805	0.166	256.81	0.002
5	4.461	0.053	56.31	0.001

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**
** JUNCTION 1 , BRANCH 1 , STRUCTURE 2 **
** NULL STRUCTURE **
** J1 B1 S2 **
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SUBWATERSHED INFORMATION

HYDRAULIC INPUT VALUES

WATER SHED	AREA (acre)	CURVE NUMBER	TC (hr)	TT (hr)	ROUTING K-(hr)	COEF'S X	UNIT HYDRO RESPONSE
1	359.96	89.00	0.602	0.233	0.233	0.337	MED
2	168.04	84.00	0.427	0.000	0.000	0.000	MED

SEDIMENT INPUT VALUES

WATER SHED	SEG NUM	SOIL K	LENGTH (feet)	SLOPE (%)	CF VALUE	PART OPT
1	1	0.36	800.0	15.0	0.450	1 (MUSLE)
2	1	0.32	600.0	16.0	0.450	1 (MUSLE)

COMPUTED VALUES FOR INDIVIDUAL WATERSHEDS

WATERSHED	PEAK FLOW (cfs)	RUNOFF (inches)	SEDIMENT (tons)	D50 (mm)
1	36.472	0.166	2637.74	0.001
2	6.828	0.072	352.21	0.001

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 *
 * RESULTS TO J1 B1 S2 *
 *

* Total Drainage Area to This Point = 1205.693 acres *
 * Drainage Area Between Previous Structure and This One = 528.007 acres *

	RUNOFF VOLUME (ac-ft)	PEAK DISCHARGE (cfs)	PEAK SEDIMENT CONCENTRATION (mg/l)	PEAK SETTLEABLE CONCENTRATION (ml/l)	SEDIMENT YIELD (tons)
IN/OUT	12.051	70.723	357668.19	2.840	3801.49

	TIME OF SIGNIFICANT CONCENTRATION (hrs)	AVERAGE SETTLEABLE CONCENTRATION:		ARITHMETIC DURING TIME OF SIGN. CONC. (ml/l)	DURING PEAK 24 HOUR (ml/l)
		VOLUME WEIGHTED DURING TIME OF SIGN. CONC. (ml/l)	24 HOUR PEAK (ml/l)		
IN/OUT	6.30	1.66	1.66	1.05	0.27

 *** RUN COMPLETED ***

SEDCAD+(TM)
Sediment, Erosion, Discharge by Computer Aided Design

by

Pamela J. Schwab
Civil Software Design
P.O. Box 11092
Lexington, Kentucky 40572

Version No. 2.15 (6/10/88)

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Current Date and Time: 01-05-1988 17:24:32
Computed Date and Time: 01-05-1988 17:14:46
File Created By: Pam Tarquin
File Currently Being Printed: b:neckpo10

***** WATERSHED IDENTIFICATION *****

* Postmining Peak Flows for Neck Arroyo - 10 year 6 hour

***** STORM INPUT *****

Storm Type SCS TYPE 2
Rainfall Depth 1.3 inches
Storm Duration 6.0 hours

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***** WATERSHED NETWORK *****

JUNCTIONS	BRANCHES	STRUCTURES
1	1	1 2

***** SEDIMENTOLOGY INPUTS *****

* Specific Gravity = 2.65
 * Submerged Bulk Specific Gravity = 1.25

NO.	PARTICLE SIZE, (mm)	PERCENT FINER DISTRIBUTIONS:			
		NO. 1	NO. 2	NO. 3	NO. 4
1	2.0000	100.00	100.00	100.00	100.00
2	0.1000	83.50	75.90	50.00	26.50
3	0.0500	77.00	70.00	17.00	14.00
4	0.0020	56.00	47.00	11.00	11.00
5	0.0010	0.00	0.00	0.00	0.00

***** BETWEEN STRUCTURE ROUTING PARAMETERS *****

J	S		TRAVEL TIME (hours)	MUSK. K (hours)	MUSK. X
1	1	Prior J or S to Structure 1	0.000	0.000	0.000
1	1	Prior J or S to Structure 2	0.673	0.673	0.348

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 *
 * RESULTS TO J1 B1 S1 *
 *

* Total Drainage Area to This Point = 677.636 acres *

	RUNOFF VOLUME (ac-ft)	PEAK DISCHARGE (cfs)	PEAK SEDIMENT CONCENTRATION (mg/l)	PEAK SETTLEABLE CONCENTRATION (ml/l)	SEDIMENT YIELD (tons)
* IN/OUT	20.260	158.654	174691.50	12.297	5129.51

	TIME OF SIGNIFICANT CONCENTRATION (hrs)	AVERAGE SETTLEABLE CONCENTRATION:			
		VOLUME WEIGHTED DURING TIME OF SIGN. CONC. (ml/l)	PEAK 24 HOUR (ml/l)	ARITHMETIC DURING TIME OF SIGN. CONC. (ml/l)	PEAK 24 HOUR (ml/l)
* IN/OUT	6.50	7.48	7.48	3.97	1.08

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**
** JUNCTION 1 , BRANCH 1 , STRUCTURE 2 **
**      NULL STRUCTURE                **
**      J1 B1 S2                       **
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SUBWATERSHED INFORMATION

HYDRAULIC INPUT VALUES

WATER SHED	AREA (acre)	CURVE NUMBER	TC (hr)	TT (hr)	ROUTING K-(hr)	COEF'S X	UNIT HYDRO RESPONSE
1	359.96	89.00	0.602	0.233	0.233	0.337	MED
2	168.04	84.00	0.427	0.000	0.000	0.000	MED

SEDIMENT INPUT VALUES

WATER SHED	SEG NUM	SOIL K	LENGTH (feet)	SLOPE (%)	CF VALUE	PART OFT
1	1	0.36	800.0	15.0	0.450	1 (MUSLE)
2	1	0.32	600.0	16.0	0.450	1 (MUSLE)

COMPUTED VALUES FOR INDIVIDUAL WATERSHEDS

WATERSHED	PEAK FLOW (cfs)	RUNOFF (inches)	SEDIMENT (tons)	D50 (mm)
1	117.129	0.477	9169.08	0.001
2	37.674	0.294	2009.29	0.001

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 *
 * RESULTS TO J1 B1 S2
 *

* Total Drainage Area to This Point = 1205.693 acres
 * Drainage Area Between Previous Structure and This One = 528.007 acres

	RUNOFF VOLUME (ac-ft)	PEAK DISCHARGE (cfs)	PEAK SEDIMENT CONCENTRATION (mg/l)	PEAK SETTLEABLE CONCENTRATION (ml/l)	SEDIMENT YIELD (tons)
* IN/OUT	38.687	244.204	428222.69	14.176	14283.74

	TIME OF SIGNIFICANT CONCENTRATION (hrs)	AVERAGE SETTLEABLE CONCENTRATION:		ARITHMETIC DURING TIME OF SIGN. CONC. (ml/l)	DURING PEAK 24 HOUR (ml/l)
		VOLUME WEIGHTED DURING TIME OF SIGN. CONC. (ml/l)	PEAK 24 HOUR (ml/l)		
* IN/OUT	6.50	7.94	7.94	4.80	1.30

 *** RUN COMPLETED ***

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***** WATERSHED NETWORK *****

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*
*
*          JUNCTIONS          BRANCHES          STRUCTURES
*-----
*                1                1                1
*                                2
*
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***** SEDIMENTOLOGY INPUTS *****

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*
* Specific Gravity =                2.5
* Submerged Bulk Specific Gravity = 1.25
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*
*          PERCENT FINER DISTRIBUTIONS:
* NO.  PARTICLE SIZE, (mm)  NO. 1  NO. 2  NO. 3  NO. 4
*-----
* 1      2.0000             100.00  100.00  100.00  100.00
* 2      0.1000             83.50   75.90   30.00   26.50
* 3      0.0500             77.00   70.00   17.00   14.00
* 4      0.0020             56.00   47.00   11.00   11.00
* 5      0.0010             0.00    0.00    0.00    0.00
*
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***** BETWEEN STRUCTURE ROUTING PARAMETERS *****

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*
*          TRAVEL TIME MUSK. K  MUSK. X
*          (hours)             (hours)
*-----
* 1  1  Prior J or S to Structure 1  0.000  0.000  0.000
* 1  1  Prior J or S to Structure 2  0.673  0.673  0.348
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**
** JUNCTION 1 , BRANCH 1 , STRUCTURE 1 **
**          NULL STRUCTURE          **
**          J1 B1 S1                 **
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SUBWATERSHED INFORMATION

HYDRAULIC INPUT VALUES

WATER SHED	AREA (acres)	CURVE NUMBER	TC (hr)	TT (hr)	ROUTING K-(hr)	COEF'S X	UNIT HYDRO RESPONSE
1	251.61	81.90	0.741	0.049	0.049	0.367	MED
2	85.40	89.00	0.357	0.172	0.172	0.361	MED
3	153.35	89.00	0.544	0.049	0.049	0.367	MED
4	97.34	89.00	0.193	0.000	0.000	0.000	MED
5	89.99	82.90	0.131	0.000	0.000	0.000	MED

SEDIMENT INPUT VALUES

WATER SHED	SEG NUM	SOIL K	LENGTH (feet)	SLOPE (%)	CP VALUE	PART OPT
1	1	0.32	800.0	5.0	0.450	1 (MUSLE)
2	1	0.37	200.0	10.0	0.450	1 (MUSLE)
3	1	0.37	400.0	10.0	0.450	1 (MUSLE)
4	1	0.37	400.0	10.0	0.450	1 (MUSLE)
5	1	0.33	400.0	10.0	0.450	1 (MUSLE)

COMPUTED VALUES FOR INDIVIDUAL WATERSHEDS

WATERSHED	PEAK FLOW (cfs)	RUNOFF (inches)	SEDIMENT (tons)	D50 (mm)
1	54.226	0.387	623.49	0.001
2	53.950	0.692	698.95	0.002
3	78.199	0.692	1688.93	0.001
4	78.423	0.692	1311.46	0.002
5	45.887	0.422	626.77	0.002

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* * * * *

RESULTS TO J1 E1 S1

* * * * *

* * * * *

* Total Drainage Area to This Point = 677.686 acres *

* * * * *

	RUNOFF VOLUME (ac-ft)	PEAK DISCHARGE (cfs)	PEAK SEDIMENT CONCENTRATION (mg/l)	PEAK SETTLEABLE CONCENTRATION (ml/l)	SEDIMENT YIELD (tons)
--	-----------------------------	----------------------------	--	--	-----------------------------

IN/OUT	30.643	252.724	182008.20	14.735	4951.51
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* * * * *

* * * * *

* AVERAGE SETTLEABLE CONCENTRATION: *

	TIME OF SIGNIFICANT CONCENTRATION (hrs)	VOLUME WEIGHTED DURING TIME OF SIGN. CONC. (ml/l)	PEAK 24 HOUR (ml/l)	ARITHMETIC DURING TIME OF SIGN. CONC. (ml/l)	PEAK 24 HOUR (ml/l)
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IN/OUT	6.70	9.02	9.02	4.63	1.29
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**
** JUNCTION 1 , BRANCH 1 , STRUCTURE 2 **
**          NULL STRUCTURE           **
**          J1 B1 S2                 **
**
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SUBWATERSHED INFORMATION

HYDRAULIC INPUT VALUES

WATER SHED	AREA (acres)	CURVE NUMBER	TC (hr)	TT (hr)	ROUTING COEF'S K-(hr)	X	UNIT HYDRO RESPONSE
1	359.96	89.00	0.602	0.233	0.233	0.337	MED
2	162.04	84.00	0.427	0.000	0.000	0.000	MED

SEDIMENT INPUT VALUES

WATER SHED	SEG NUM	SOIL K	LENGTH (feet)	SLOPE (%)	CP VALUE	PART OPT
1	1	0.36	800.0	15.0	0.450	1 (MUSLE)
2	1	0.32	600.0	16.0	0.450	1 (MUSLE)

COMPUTED VALUES FOR INDIVIDUAL WATERSHEDS

WATERSHED	PEAK FLOW (cfs)	RUNOFF (inches)	SEDIMENT (tons)	D50 (mm)
1	173.463	0.692	14062.02	0.001
2	62.329	0.463	3438.01	0.001

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*
 * RESULTS TO J1 B1 S2 *
 *

* Total Drainage Area to This Point = 1205.693 acres *
 * Drainage Area Between Previous Structure and This One = 528.007 acres *

	RUNOFF VOLUME (ac-ft)	PEAK DISCHARGE (cfs)	PEAK SEDIMENT CONCENTRATION (mg/l)	PEAK SETTLEABLE CONCENTRATION (ml/l)	SEDIMENT YIELD (tons)
IN/OUT	57.873	378.361	446449.41	20.561	22442.17

	AVERAGE SETTLEABLE CONCENTRATION:				
	TIME OF SIGNIFICANT CONCENTRATION (hrs)	VOLUME WEIGHTED DURING TIME OF SIGN. CONC. (ml/l)	PEAK 24 HOUR (ml/l)	ARITHMETIC DURING TIME OF SIGN. CONC. (ml/l)	PEAK 24 HOUR (ml/l)
IN/OUT	6.70	11.32	11.32	6.72	1.28

*** RUN COMPLETED ***

SEDICAD+(TM)
Sediment, Erosion, Discharge by Computer Aided Design

by

Pamela J. Schwab
Civil Software Design
P.O. Box 11092
Lexington, Kentucky 40572

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Current Date and Time: 01-05-1988 17:27:00
Computed Date and Time: 01-05-1988 17:15:36
File Created By: Pam Terquin
File Currently Being Printed: b:neop0100

***** WATERSHED IDENTIFICATION *****

* Postmining Peak Flows for Neck Arroyo - 100 year 6 hour

***** STORM INPUT *****

Storm Type SCS TYPE 2
Rainfall Depth 2.0 inches
Storm Duration 6.0 hours

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***** WATERSHED NETWORK *****
*
*          JUNCTIONS          BRANCHES          STRUCTURES
*-----
*              1              1              1
*                      2
*
*****
  
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***** SEDIMENTOLOGY INPUTS *****
*
* Specific Gravity =                2.5
* Submerged Bulk Specific Gravity = 1.25
*-----
  
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***** PERCENT FINER DISTRIBUTIONS: *****
* NO.  PARTICLE SIZE, (mm)  NO. 1  NO. 2  NO. 3  NO. 4
*-----
* 1      2.0000             100.00  100.00  100.00  100.00
* 2      0.1000             83.50   75.90   30.00   26.50
* 3      0.0500             77.00   70.00   17.00   14.00
* 4      0.0020             56.00   47.00   11.00   11.00
* 5      0.0010             0.00    0.00    0.00    0.00
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***** BETWEEN STRUCTURE ROUTING PARAMETERS *****
*
*          J      B          TRAVEL TIME MUSK. K  MUSK. X
*          J      B          (hours)  (hours)
*-----
* 1      1      1      Prior J or S to Structure 1  0.000  0.000  0.000
* 1      1      1      Prior J or S to Structure 2  0.673  0.673  0.348
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<<< SEDCAD+ >>>
 --- Applied Hydrology Associates ---

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*****
***** JUNCTION 1 , BRANCH 1 , STRUCTURE 1 *****
***** NULL STRUCTURE *****
***** J1 61 S1 *****
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SUBWATERSHED INFORMATION

HYDRAULIC INPUT VALUES

WATER SHED	AREA (acre)	CURVE NUMBER	TC (hr)	TT (hr)	ROUTING K-(hr)	COEF'S X	UNIT HYDRO RESPONSE
1	251.61	81.90	0.741	0.049	0.049	0.367	MED
2	85.40	89.00	0.357	0.172	0.172	0.361	MED
3	153.35	89.00	0.544	0.049	0.049	0.367	MED
4	97.34	89.00	0.193	0.000	0.000	0.000	MED
5	89.99	82.90	0.151	0.000	0.000	0.000	MED

SEDIMENT INPUT VALUES

WATER SHED	SEG NUM	SOIL K	LENGTH (feet)	SLOPE (%)	CP VALUE	PART OPT
1	1	0.32	800.0	5.0	0.450	1 (MUSLE)
2	1	0.37	200.0	10.0	0.450	1 (MUSLE)
3	1	0.37	400.0	10.0	0.450	1 (MUSLE)
4	1	0.37	400.0	10.0	0.450	1 (MUSLE)
5	1	0.33	400.0	10.0	0.450	1 (MUSLE)

COMPUTED VALUES FOR INDIVIDUAL WATERSHEDS

WATERSHED	PEAK FLOW (cfs)	RUNOFF (inches)	SEDIMENT (tons)	D50 (mm)
1	92.793	0.631	1108.01	0.001
2	79.854	1.011	1077.17	0.002
3	116.454	1.011	2611.74	0.002
4	114.193	1.011	2002.68	0.002
5	74.797	0.677	1077.05	0.002

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RESULTS TO J1 B1 S1

* Total Drainage Area to This Point = 677.636 acres

	RUNOFF VOLUME (ac-ft)	PEAK DISCHARGE (cfs)	PEAK SEDIMENT CONCENTRATION (mg/l)	PEAK SETTLEABLE CONCENTRATION (ml/l)	SEDIMENT YIELD (tons)
IN/OUT	46.635	396.359	182925.41	16.727	7876.50

	TIME OF SIGNIFICANT CONCENTRATION (hrs)	AVERAGE SETTLEABLE CONCENTRATION:			
		VOLUME WEIGHTED DURING TIME OF SIGN. CONC. (ml/l)	DURING PEAK 24 HOUR (ml/l)	ARITHMETIC DURING TIME OF SIGN. CONC. (ml/l)	DURING PEAK 24 HOUR (ml/l)
IN/OUT	7.00	10.70	10.70	5.24	1.53

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**
** JUNCTION 1 , BRANCH 1 , STRUCTURE 2 **
**      NULL STRUCTURE                **
**      J1 B1 S2                       **
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SUBWATERSHED INFORMATION

HYDRAULIC INPUT VALUES

WATER SHED	AREA (acres)	CURVE NUMBER	TC (hr)	TT (hr)	ROUTING K--(hr)	COEF'S X	UNIT HYDRO RESPONSE
1	359.96	89.00	0.602	0.233	0.233	0.337	MED
2	162.04	84.00	0.427	0.000	0.000	0.000	MED

SEDIMENT INPUT VALUES

WATER SHED	SEG NUM	SOIL K	LENGTH (feet)	SLOPE (%)	CP VALUE	PART OPT
1	1	0.36	800.0	15.0	0.450	1 (MUSLE)
2	1	0.32	600.0	16.0	0.450	1 (MUSLE)

COMPUTED VALUES FOR INDIVIDUAL WATERSHEDS

WATERSHED	PEAK FLOW (cfs)	RUNOFF (inches)	SEDIMENT (tons)	D50 (mm)
1	257.944	1.011	21727.51	0.001
2	101.028	0.730	5211.84	0.002

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 *
 * RESULTS TO J1 B1 S2 *
 *

 * Total Drainage Area to This Point = 1205.693 acres *
 * Drainage Area Between Previous Structure and This One = 529.007 acres *

	RUNOFF VOLUME (ac-ft)	PEAK DISCHARGE (cfs)	PEAK SEDIMENT CONCENTRATION (mg/l)	PEAK SETTLEABLE CONCENTRATION (ml/l)	SEDIMENT YIELD (tons)
IN/OUT	87.194	593.431	444985.50	25.564	35411.81

	TIME OF SIGNIFICANT CONCENTRATION (hrs)	AVERAGE SETTLEABLE CONCENTRATION:			
		VOLUME WEIGHTED DURING TIME OF SIGN. CONC. (ml/l)	PEAK 24 HOUR (ml/l)	ARITHMETIC DURING TIME OF SIGN. CONC. (ml/l)	PEAK 24 HOUR (ml/l)
IN/OUT	6.90	14.99	14.99	8.56	2.46

 *** RUN COMPLETED ***
