
 HEC2 VERSION UPDATED JAN 1975
 ERROR CORRECTIONS 01,02,03,04,05,06,07,08
 MODIFICATIONS 52,53,54,55,56,57,58

C
 1 LEXINGTON-DAVIDSON CO. STREAM 9L
 T2 FLOODPLAIN STUDY AT ROWAN & DAVIDSON COUNTIES M-G JOB NO. 6918
 T3 13 YEAR FLOOD WATER SURFACE PROFILE

J1	ICHECK	INO	MINV	IDIR	STRT.	METRIC	HVINS	Q	WSEL	FW
	-1.	2.	0.	0.	0.024000	0.0	0.0	0.	728.000	0.0
J2	NPROF	INLOT	PRFVS	XSECV	XSECH	FN	ALLOC	IBH	CHNLM	ITRACE
	0.0	0.0	-1.000	0.0	0.0	0.0	0.0	0.0	0.0	0.0
J3	1.000	34.000	3.000	4.000	27.000	28.000	26.000	26.000	0.0	0.0
NC	0.055	0.055	0.035	0.100	0.300	0.0	0.0	0.0	0.0	0.0
BT	5.000	139.000	280.000	362.000	575.000	362.000	0.0	0.0	0.0	0.0
ET	5.000	0.0	0.0	0.0	0.0	-10.400	0.0	0.0	0.0	0.0
X1	250.000	9.000	1212.000	1228.000	250.000	250.000	250.000	250.000	0.0	0.0
GR	742.400	1000.000	737.700	1100.000	727.800	1200.000	727.400	1212.000	723.400	1216.000
GR	723.000	1219.000	723.500	1222.000	727.600	1228.000	742.400	1297.000	0.0	0.0
QT	5.000	125.000	250.000	322.000	509.000	322.000	0.0	0.0	0.0	0.0
X1	900.000	12.000	1123.000	1132.000	650.000	650.000	650.000	650.000	0.0	-6.100
GR	756.200	1000.000	744.900	1100.000	741.100	1123.000	738.000	1126.000	737.800	1128.000
GR	737.900	1130.000	740.200	1132.000	746.000	1200.000	747.000	1239.000	746.300	1255.000
GR	753.900	1300.000	756.200	1311.000	0.0	0.0	0.0	0.0	0.0	0.0
X1	950.000	0.0	0.0	0.0	50.000	50.000	50.000	50.000	0.0	0.700
NC	0.025	0.025	0.025	0.100	0.300	0.0	0.0	0.0	0.0	0.0
X1	1000.000	14.000	1498.500	1501.500	50.000	50.000	50.000	50.000	0.0	0.0
GR	751.500	1372.000	740.200	1472.000	736.400	1495.000	734.600	1498.500	733.500	1449.000
GR	733.100	1500.000	733.500	1501.000	734.600	1501.500	735.500	1504.000	741.300	1572.000
GR	742.300	1511.000	741.600	1527.000	749.200	1672.000	751.500	1633.000	0.0	0.0
SB	0.900	2.400	2.500	0.0	3.000	0.010	7.000	0.0	0.0	0.0
X1	1172.000	20.000	1498.500	1501.500	172.000	172.000	172.000	172.000	0.0	0.0
X2	0.0	0.0	1.000	741.100	746.300	0.0	0.0	0.0	0.0	0.0
BT	15.000	1000.000	746.500	0.0	1100.000	751.100	0.0	1200.000	753.600	0.0
BT	1300.000	755.100	0.0	1400.000	751.600	0.0	1498.500	746.300	739.600	1449.000
BT	746.300	740.700	1500.000	746.300	741.100	1501.000	746.300	740.700	1501.500	746.300
BT	739.600	1600.000	746.900	0.0	1630.000	747.700	0.0	1648.000	747.100	0.0
BT	1700.000	757.000	0.0	1724.000	760.000	0.0	0.0	0.0	0.0	0.0
GR	748.500	1000.000	751.100	1100.000	753.800	1200.000	755.100	1300.000	751.600	1400.000
GR	750.200	1427.000	745.200	1472.000	741.400	1495.000	739.600	1498.500	738.500	1499.000
GR	738.100	1500.000	738.500	1501.000	739.600	1501.500	740.500	1504.000	746.300	1572.000
GR	746.900	1600.000	747.700	1630.000	747.100	1648.000	757.000	1700.000	760.000	1724.000
NC	0.055	0.055	0.035	0.100	0.300	0.0	0.0	0.0	0.0	0.0
X1	1222.000	12.000	1123.000	1132.000	50.000	50.000	50.000	50.000	0.0	0.400

GR	756,200	1000,000	744,900	1100,000	741,100	1123,000	738,000	1126,000	737,800	1128,000
GR	737,900	1130,000	740,200	1132,000	746,000	1200,000	747,000	1239,000	746,300	1255,000
GR	753,900	1300,000	756,200	1311,000	0.0	0.0	0.0	0.0	0.0	0.0
X1	1272,000	0.0	0.0	0.0	50,000	50,000	50,000	0.0	0.100	0.0
EJ	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

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 ERROR CORRECTIONS 01,02,03,04,05,06,07,08
 MODIFICATIONS 52,53,54,55,56,57,58

T1 LEXINGTON-DAVIDSON CO. STREAM 9L
 T2 FLOODPLAIN STUDY AT ROWAN & DAVIDSON COUNTIES M-G JOB NO. 6918
 T3 50 YEAR FLOOD WATER SURFACE PROFILE

J1	ICHECK	INO	NINV	IDIR	STRT	METRIC	HVINS	Q	WSEL	FO
	-10.	3.	0.	0.	0.024000	0.0	0.0	0.	729.000	0.0
J2	NPROF	IPL0T	PRFVS	XSECV	XSECH	FN	ALLDC	IBW	CHNIM	ITRACE
	2.000	0.0	-1.000	0.0	0.0	0.0	0.0	0.0	0.0	0.0

CCHV= 0.100 CEHV= 0.300

3720 ASSUMED CRITICAL DEPTH

SECHO	DEPTH	CWSFL	CRWS	WSELK	EG	HV	HL	QLOSS	BANK ELEV
Q	QLOB	QCH	QROB	ALOB	ACH	AROB	VOL	TWA	LEFT/RIGHT
TIME	VLOB	VCH	VROB	XNL	XNCH	XNR	WTN	ELMIN	SSTA
SLOPE	XLOBL	XLCH	XLOBR	ITRIAL	IDC	ICONT	CORAR	TOPWID	ENDST
250.00	3.57	726.57	726.57	729.00	727.76	1.19	0.0	0.0	727.40
280.	0.	280.	0.	0.	32.	0.	0.	0.	727.60
0.0	0.0	8.77	0.0	0.055	0.035	0.055	0.0	723.00	1212.83
0.016928	250.	250.	250.	0	14	1	0.0	13.65	1226.49
900.00	3.95	735.64	735.61	0.0	735.43	0.84	8.69	0.04	735.00
250.	2.	216.	33.	1.	27.	14.	1.	0.	734.10
0.03	1.30	7.85	2.33	0.055	0.035	0.055	0.035	731.70	1119.09
0.010564	650.	650.	650.	8	8	1	0.0	31.03	1150.12

7185 MIN SPECIFIC ENERGY

3720 ASSUMED CRITICAL DEPTH

SECHO	DEPTH	CWSFL	CRWS	WSELK	EG	HV	HL	QLOSS	BANK ELEV
Q	QLOB	QCH	QROB	ALOB	ACH	AROB	VOL	TWA	LEFT/RIGHT
TIME	VLOB	VCH	VROB	XNL	XNCH	XNR	WTN	ELMIN	SSTA
SLOPE	XLOBL	XLCH	XLOBR	ITRIAL	IDC	ICONT	CORAR	TOPWID	ENDST
950.00	3.91	736.31	736.31	0.0	737.18	0.87	0.54	0.0	735.70
7185.25R.	1.	217.	32.	1.	27.	13.	1.	0.	734.80
	1.28	7.98	2.36	0.055	0.035	0.055	0.035	732.40	1119.29
	50.	50.	50.	3	5	1	0.0	30.46	1149.74

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T1 LEXINGTON-DAVIDSON CO. STREAM 9L
 T2 FLOODPLAIN STUDY AT ROWAN & DAVIDSON COUNTIES M-G JOB NO. 6918
 T3 100 YEAR FLOOD WATER SURFACE PROFILE

J1	ICHECK	INQ	MINV	IDIR	STRT	METRIC	HVINS	Q	WSLL	FQ
	-10.	4.	0.	0.	0.024000	0.0	0.0	0.	731.000	0.0
J2	NPROF	IPL0T	PRFVS	XSECV	XSECH	FN	ALLDC	IBW	CHNAM	ITRACE
	3.000	0.0	-1.000	0.0	0.0	0.0	0.0	0.0	0.0	0.0

CCHV= 0.100 CEHV= 0.300

3720 ASSUMED CRITICAL DEPTH

SECNO	DEPTH	CWSEL	CRWS	WSELK	EG	HV	HL	QLOSS	BANK ELEV
Q	QLOB	QCH	QROB	ALOB	ACH	AROB	VOL	TWA	LEFT/RIGHT
TIME	VLOB	VCH	VROB	XNL	XNCH	XNR	WTN	ELMIN	SSTA
SLOPE	XLORL	XLCH	XLOBR	ITRIAL	IDC	ICONT	CORAR	TOPWID	ENDST
250.00	4.08	727.08	727.08	731.00	728.40	1.32	0.0	0.0	727.40
362.	0.	362.	0.	0.	39.	0.	0.	0.	727.60
0.0	0.0	9.21	0.0	0.055	0.035	0.055	0.0	723.00	1212.32
0.016157	250.	250.	250.	0	0	1	0.0	14.92	1227.24

7185 MIN SPECIFIC ENERGY

3720 ASSUMED CRITICAL DEPTH

SECNO	DEPTH	CWSEL	CRWS	WSELK	EG	HV	HL	QLOSS	BANK ELEV
Q	QLOB	QCH	QROB	ALOB	ACH	AROB	VOL	TWA	LEFT/RIGHT
TIME	VLOB	VCH	VROB	XNL	XNCH	XNR	WTN	ELMIN	SSTA
SLOPE	XLORL	XLCH	XLOBR	ITRIAL	IDC	ICONT	CORAR	TOPWID	ENDST
900.00	4.33	736.03	736.03	0.0	736.92	0.90	8.38	0.0	735.00
322.	6.	259.	58.	3.	31.	22.	1.	0.	734.10
0.02	1.74	8.37	2.66	0.055	0.035	0.055	0.035	731.70	1116.79
0.010270	650.	650.	650.	4	8	1	0.0	37.78	1154.57

7185 MIN SPECIFIC ENERGY

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T1 LEXINGTON-DAVIDSON CO. STREAM 9L
 T2 FLOODPLAIN STUDY AT ROWAN & DAVIDSON COUNTIES M-G JOB NO. 6918
 T3 500 YEAR FLOOD WATER SURFACE PROFILE

J1	ICHECK	ING	MINV	IDIR	STRT	METRIC	HVINS	0	WSEL	FQ
	-10.	5.	0.	0.	0.024000	0.0	0.0	0.	732.000	0.0
J2	NPROF	IPLOT	PRFVS	XSECV	XSECH	FN	ALLDC	IBW	CHNIM	ITRACE
	15.000	0.0	-1.000	0.0	0.0	0.0	0.0	0.0	0.0	0.0

CCHV= 0.100 CEHV= 0.300

3720 ASSUMED CRITICAL DEPTH

SECNO	DEPTH	CWSEL	CRIMS	WSELK	EG	HV	HL	OLOSS	BANK ELEV
Q	QLOB	QCH	QROB	ALOB	ACH	AROB	VOL	TWA	LEFT/RIGHT
TIME	VLOB	VCH	VROB	XNL	XNCH	XNR	WTN	ELMIN	SSTA
SLOPE	XLOBL	XLCH	XLOBR	ITRIAL	IDC	ICONT	CORAR	TOPWID	ENDST
250.00	5.36	728.36	728.36	732.00	729.63	1.27	0.0	0.0	727.40
575.	23.	550.	2.	11.	60.	1.	0.	0.	727.60
0.0	2.12	9.24	1.42	0.055	0.035	0.055	0.0	723.00	1194.31
0.010311	250.	250.	250.	0	14	1	0.0	37.25	1231.56

7185 MIN SPECIFIC ENERGY

3720 ASSUMED CRITICAL DEPTH

SECNO	DEPTH	CWSEL	CRIMS	WSELK	EG	HV	HL	OLOSS	BANK ELEV
Q	QLOB	QCH	QROB	ALOB	ACH	AROB	VOL	TWA	LEFT/RIGHT
TIME	VLOB	VCH	VROB	XNL	XNCH	XNR	WTN	ELMIN	SSTA
SLOPE	XLOBL	XLCH	XLOBR	ITRIAL	IDC	ICONT	CORAR	TOPWID	ENDST
900.00	5.07	736.77	736.77	0.0	737.75	0.98	6.55	0.0	735.00
709.	23.	351.	135.	9.	38.	42.	1.	1.	734.10
0.02	2.44	9.33	3.24	0.055	0.035	0.055	0.035	731.70	1112.29
0.010311	650.	650.	650.	4	11	1	0.0	51.01	1163.30

3685 20 TRIALS USED WSEL,CWSEL

7185 MIN SPECIFIC ENERGY

SUMMARY PRINTOUT FOR MULTIPLE PROFILES

500 YEAR FLOOD WATER SUR

SECTION NUMBER	CHANNEL LENGTH	MIN EL OF ROADWAY	MAX EL OF LOW CHORD	MIN EL GROUND	DISCHARGE (CFS)	CWSEL	TO	EG	TOPWID	STENCL	STENCR	VCH
	0.00			723.00		725.49 727.08						
✓ 250.00	250.00	0.0	0.0	723.00	139.00	725.49	10.30	726.35	10.99	0.0	0.0	7.46
✓ 250.00	250.00	0.0	0.0	723.00	240.00	726.57	21.52	727.76	13.65	0.0	0.0	8.77
✓ 250.00	250.00	0.0	0.0	723.00	362.00	727.08	28.48	728.40	14.92	0.0	0.0	9.21
✓ 250.00	250.00	0.0	0.0	723.00	575.00	728.36	56.63	729.63	37.25	0.0	0.0	9.24
900.00	650.00	0.0	0.0	731.70	125.00	734.73	12.18	735.34	16.14	0.0	0.0	6.33
✓ 900.00	650.00	0.0	0.0	731.70	250.00	735.64	24.32	736.48	31.05	0.0	0.0	7.85
✓ 900.00	650.00	0.0	0.0	731.70	322.00	736.02	31.77	736.92	37.78	0.0	0.0	8.37
✓ 900.00	650.00	0.0	0.0	731.70	509.00	736.77	51.39	737.75	51.01	0.0	0.0	9.33
✓ 950.00	50.00	0.0	0.0	732.40	125.00	735.24	10.47	736.00	13.64	0.0	0.0	7.04
✓ 950.00	50.00	0.0	0.0	732.40	250.00	736.31	23.76	737.18	30.46	0.0	0.0	7.98
✓ 950.00	50.00	0.0	0.0	732.40	322.00	736.73	31.92	737.62	37.90	0.0	0.0	8.35
✓ 950.00	50.00	0.0	0.0	732.40	509.00	737.49	51.98	738.45	51.35	0.0	0.0	9.25
✓ 1000.00	50.00	0.0	0.0	733.10	125.00	736.60	16.62	737.12	23.03	0.0	0.0	7.10
✓ 1000.00	50.00	0.0	0.0	733.10	250.00	737.24	32.42	737.68	34.57	0.0	0.0	8.27
✓ 1000.00	50.00	0.0	0.0	733.10	322.00	737.51	41.36	738.19	39.23	0.0	0.0	8.74
✓ 1000.00	50.00	0.0	0.0	733.10	509.00	738.12	69.10	738.83	50.12	0.0	0.0	9.11
✓ 1172.00	172.00	745.30	741.10	738.10	125.00	746.62	505.53	746.63	128.09	0.0	0.0	0.45
✓ 1172.00	172.00	745.30	741.10	738.10	250.00	747.20	655.85	747.20	161.06	0.0	0.0	0.72
✓ 1172.00	172.00	745.30	741.10	738.10	322.00	747.38	710.56	747.39	176.19	0.0	0.0	0.87
✓ 1172.00	172.00	745.30	741.10	738.10	509.00	747.74	828.61	747.76	202.38	0.0	0.0	1.21
1222.00	50.00	0.0	0.0	738.20	125.00	746.62	261.92	746.63	120.45	0.0	0.0	0.67
1222.00	50.00	0.0	0.0	738.20	250.00	747.20	332.16	747.20	162.19	0.0	0.0	1.10
1222.00	50.00	0.0	0.0	738.20	322.00	747.38	357.37	747.39	176.18	0.0	0.0	1.34
1222.00	50.00	0.0	0.0	738.20	509.00	747.74	412.74	747.76	182.76	0.0	0.0	1.69
1272.00	50.00	0.0	0.0	738.30	125.00	746.62	250.90	746.63	115.71	0.0	0.0	0.57
1272.00	50.00	0.0	0.0	738.30	250.00	747.20	319.23	747.21	154.68	0.0	0.0	1.14
1272.00	50.00	0.0	0.0	738.30	322.00	747.38	343.74	747.40	168.73	0.0	0.0	1.38
1272.00	50.00	0.0	0.0	738.30	509.00	747.75	397.35	747.77	181.36	0.0	0.0	1.94

Limit 1200
1200

SECTION NUMBER	DISCHARGE CFS	CWSEL	CWSEL DIFF EACH W	CWSEL DIFF EACH SECTION	CWSEL-WHEEL	TOPWID	T.W. DIFF	LENGTH
250.000	139.000	725.466	0.0	0.0	0.0	10.992	0.0	250.000
250.000	240.000	726.566	1.061	0.0	0.0	13.655	-2.662	250.000
250.000	362.000	727.081	0.514	0.0	0.0	14.932	-3.930	250.000
250.000	575.000	728.362	1.282	0.0	0.0	37.251	-26.250	250.000
900.000	125.000	734.734	0.0	9.249	0.0	16.143	0.0	650.000
900.000	250.000	735.644	0.910	9.072	0.0	31.031	-14.888	650.000
900.000	322.000	736.025	0.381	8.944	0.0	37.782	-21.659	650.000
900.000	509.000	736.769	0.744	8.407	0.0	51.014	-34.871	650.000
950.000	125.000	735.236	0.0	0.501	0.0	13.638	0.0	50.000
950.000	250.000	736.313	1.077	0.668	0.0	30.456	-16.819	50.000
950.000	322.000	736.732	0.419	0.707	0.0	37.903	-24.266	50.000
950.000	509.000	737.488	0.756	0.719	0.0	51.348	-37.711	50.000

1000.000	125.000	736.595	0.0	1.360	0.0	23.034	0.0	50.000
1000.000	250.000	737.244	0.649	0.932	0.0	34.566	-11.532	50.000
1000.000	322.000	737.506	0.262	0.774	0.0	39.227	-16.193	50.000
1000.000	509.000	738.119	0.613	0.631	0.0	50.121	-27.087	50.000
1172.000	125.000	745.624	0.0	10.029	0.0	128.094	0.0	172.000
1172.000	250.000	747.198	0.574	9.954	0.0	161.059	-32.965	172.000
1172.000	322.000	747.381	0.183	9.874	0.0	176.187	-48.093	172.000
1172.000	509.000	747.744	0.363	9.624	0.0	202.377	-74.283	172.000
1222.000	125.000	746.624	0.0	-0.001	0.0	120.450	0.0	50.000
1222.000	250.000	747.197	0.573	-0.001	0.0	162.191	-41.741	50.000
1222.000	322.000	747.379	0.183	-0.001	0.0	176.181	-55.732	50.000
1222.000	509.000	747.740	0.361	-0.004	0.0	182.764	-62.315	50.000
1272.000	125.000	746.624	0.0	0.001	0.0	115.707	0.0	50.000
1272.000	250.000	747.199	0.574	0.002	0.0	154.677	-38.970	50.000
1272.000	322.000	747.382	0.184	0.003	0.0	168.726	-53.020	50.000
1272.000	509.000	747.747	0.364	0.007	0.0	181.360	-65.653	50.000

DATA FOR LAST CROSS SECTION

PROFILE	TYPE ENC	TARGET	TOP WIDTH AREA-ACRES	TOP WIDTH AREA-DIFF
1	0.0	0.0	0.817	0.0
2	0.0	0.0	1.160	0.342
3	0.0	0.0	1.306	0.489
4	0.0	0.0	1.704	0.887

ACQUISITION SYSTEMS GROUP, BOSTON, MASSACHUSETTS