

APPENDIX IV

LAND USE/LAND COVER	AREAS IN HUC-12 SUBWATERSHEDS (ACRES)				
	0401	0501	0502	0503	0504
Bare Rock/Sand/Clay	185	389	588	27	
Deciduous Forest	6,524	19,338	17,676	4,490	1,800
Developed Open Space	1,429	650	324	405	100
Evergreen Forest	796	123	62	154	57
Grassland/Herbaceous	2,216	1,461	1,622	616	70
High Intensity Development	28		3	30	
Low Intensity Development	540	202	41	224	1
Medium Intensity Development	169	28	26	98	
Mixed Forest	4,842	667	1,620	812	813
Open Water	58	8	53	32	
Pasture/Hay	3,718	143	17	262	9
Row Crops	9				
Shrub/Scrub	37	64	4	2	
Woody Wetlands		23	3	6	2
Total	20,550	23,095	22,038	7,158	2,851

Table A4-1a.

LAND USE/LAND COVER	AREAS IN HUC-12 SUBWATERSHEDS (ACRES)				
	0505*	0506	0601	0602	0603
Bare Rock/Sand/Clay		71	32	92	134
Deciduous Forest		24,378	13,384	18,004	22,675
Developed Open Space		1,885	297	846	1,676
Evergreen Forest		276	408	422	536
Grassland/Herbaceous		2,223	788	1,870	2,946
High Intensity Development		12		2	3
Low Intensity Development		826	18	317	375
Medium Intensity Development		139	3	104	72
Mixed Forest		1,119	1,236	4,337	3,486
Open Water		72	26	19	51
Pasture/Hay		2,989	51	610	240
Row Crops		42			2
Shrub/Scrub		93	20	19	12
Woody Wetlands		245	23	2	10
Total		34,369	16,285	26,645	32,219

Table A4-1b.

LAND USE/LAND COVER	AREAS IN HUC-12 SUBWATERSHEDS (ACRES)	
	0701	0801
Bare Rock/Sand/Clay	43	
Deciduous Forest	33,835	630
Developed Open Space	757	6
Evergreen Forest	142	5
Grassland/Herbaceous	1,890	34
Low Intensity Development	21	
Medium Intensity Development	1	
Mixed Forest	1,304	62
Open Water	6	
Pasture/Hay	155	4
Shrub/Scrub	111	
Woody Wetlands	118	
Total	38,383	741

Table A4-1c.

Table A4-1a-c. Land Use Distribution in Clear Fork of the Cumberland River Watershed by HUC-12. Data are from 1992 Multi-Resolution Land Characterization (MRLC) derived by applying a generalized Anderson Level II system to mosaics of Landsat thematic mapper images collected every five years. *, No data available.

HYDROLOGIC SOIL GROUPS
GROUP A SOILS have low runoff potential and high infiltration rates even when wet. They consist chiefly of sand and gravel and are well to excessively drained.
GROUP B SOILS have moderate infiltration rates when wet and consist chiefly of soils that are moderately deep to deep, moderately to well drained, and moderately coarse to coarse textures.
GROUP C SOILS have low infiltration rates when wet and consist chiefly of soils having a layer that impedes downward movement of water with moderately fine to fine texture.
GROUP D SOILS have high runoff potential, very low infiltration rates, and consist chiefly of clay soils.

Table A4-2. Hydrologic Soil Groups in Tennessee as Described in WCS. Soils are grouped into four hydrologic soil groups that describe a soil's permeability and, therefore, its susceptibility to runoff.

AGENCY	STATION	LOCATION	HUC-12
TDECWPC	CLEAR061.0CL	Clear Fork @ RM 61.0	051301010501
TDECWPC	TACKE000.1CL	Tackett Creek @ RM 0.1	051301010502
TDECWPC	CLEAR019.4CA	Clear Fork @ RM 19.4	051301010503
TDECWPC	HICKO001.5CA	Hickory Creek @ RM 1.5	051301010503
TDECWPC	DAN000.4CA	Dan Branch @ RM 0.4	051301010506
TDECWPC	DREW000.1CA	Drew Branch @ RM 0.1	051301010506
TDECWPC	GBARN000.2CA	Granny Barnes Branch @ RM 0.2	051301010506
TDECWPC	LELK006.2CA	Little Elk Fork @ RM 6.2	051301010506
TDECWPC	LICK000.9CA	Lick Fork @ RM 0.9	051301010506
TDECWPC	LICK003.8CA	Lick Fork @ RM 3.8	051301010506
TDECWPC	ECO69D04	Stinking Creek @ RM 15.1	051301010602
TDECWPC	ECO69D01	No Business Branch @ RM 0.2	051301010603
TDECWPC	STINK001.0CA	Stinking Creek @ RM 1.0	051301010603
TDECWPC	VALLE001.0CL	Valley Creek @ RM 1.0	051301010603
TDECWPC	WOAK000.7CA	White Oak Creek @ RM 0.7	051301010603
TDECWPC	CAPUC001.9CA	Capuchin Creek @ RM 1.9	051301010701
TDECWPC	CAPUC010.3CA	Capuchin Creek @ RM 10.3	051301010701
21KY	CRW014	Laurel River	Kentucky
21KY	CRW015	Marsh Creek Near Sand Hill	Kentucky
21KY	CRW016	Jellico Creek Near Duckrun	Kentucky
21KY	CRW017	Richland Creek Near Barbourville	Kentucky
21KY	CRW018	Straight Creek At Straight Creek	Kentucky
21KY	CRW019	Yellow Creek Near Ponza	Kentucky
21KY	CRW020	Poor Fork Cumberland River Near Rosspoint	Kentucky
21KY	CRW021	Clover Fork At Golden Ash	Kentucky
21KY	CRW022	Martins Fork Cumberland River At Harlan	Kentucky
11NPSWRD	CUGA_CMRC_DB10	Davis Branch North Of Little Yellow Creek	Kentucky
11NPSWRD	CUGA_CMRC_DB5	Davis Branch	Kentucky
11NPSWRD	CUGA_CMRC_DB8	Davis Branch At Confluence With Unnamed Stream	Kentucky
11NPSWRD	CUGA_CMRC_LYC1	Little Yellow Creek At Park Boundary	Kentucky
11NPSWRD	CUGA_CMRC_LYC10	Little Yellow Creek Upstream of 25 East	Kentucky
11NPSWRD	CUGA_CMRC_LYC5	Little Yellow Creek - South Of Tunnel Creek	Kentucky
11NPSWRD	CUGA_CMRC_SR10	Sugar Run Near Highway 988	Kentucky
11NPSWRD	CUGA_CPSU_988	Drainage Ditch at Hwy 988 And US 25e	Kentucky
11NPSWRD	CUGA_CPSU_DB10	Davis Branch Upstream Of Little Yellow Creek	Kentucky
11NPSWRD	CUGA_CPSU_DB5	Davis Branch (Upper Reaches)	Kentucky
11NPSWRD	CUGA_CPSU_DB6	Davis Branch 0.5 Mile North Of Unnamed Stream	Kentucky
11NPSWRD	CUGA_CPSU_DB7	Davis Branch North Of Unnamed Stream	Kentucky
11NPSWRD	CUGA_CPSU_DB8	Davis Branch at Confluence Of Unnamed Stream	Kentucky
11NPSWRD	CUGA_CPSU_DR9	Dark Ridge Creek Near Sugar Run	Kentucky
11NPSWRD	CUGA_CPSU_KY18	Drainage Ditch - Storage Area	Kentucky

Table A4-3a.

AGENCY	STATION	LOCATION	HUC-12
11NPSWRD	CUGA_CPSU_MF2	Martins Fork Adjacent To Picnic Area	Kentucky
11NPSWRD	CUGA_CPSU_MF5	Martins Fork: Downstream Limit Of Study Area	Kentucky
11NPSWRD	CUGA_CPSU_RR1	Drainage Ditch: Railroad Tunnel	Kentucky
11NPSWRD	CUGA_CPSU_SB8	Sediment Basin At Tunnel Creek	Kentucky
11NPSWRD	CUGA_CPSU_SB8W	Sediment Basin - West Side At Tunnel Creek	Kentucky
11NPSWRD	CUGA_CPSU_SR10	Sugar Run At Hwy 988 And Picnic Area	Kentucky
11NPSWRD	CUGA_CPSU_TC10	Tunnel Creek Near Little Yellow Creek Confluence	Kentucky
11NPSWRD	CUGA_CPSU_TC6	Tunnel Creek: 0.75 Miles east of Little Yellow Creek	Kentucky
11NPSWRD	CUGA_CPSU_TC7	Tunnel Creek - Midstream	Kentucky
11NPSWRD	CUGA_CPSU_TC7N	Tunnel Creek - North Tunnel Drainage	Kentucky
11NPSWRD	CUGA_CPSU_TC7NP	Tunnel Creek - Below Dam 2	Kentucky
11NPSWRD	CUGA_CPSU_TC8	Tunnel Creek: Southbound Tunnel Drainage	Kentucky
11NPSWRD	CUGA_CPSU_TUNEL	Tunnel - Kentucky Side	Kentucky
11NPSWRD	CUGA_CPSU_YC1	Little Yellow Creek	Kentucky
11NPSWRD	CUGA_CPSU_YC12	Little Yellow Creek At Park Boundary	Kentucky
11NPSWRD	CUGA_CPSU_YC5	Little Yellow Creek Upstream Of Tunnel Creek	Kentucky
11NPSWRD	CUGA_CPSU_YC5A	Little Yellow Creek: Downstream Of Tunnel Creek	Kentucky
11NPSWRD	CUGA_CPSU_YC6	Little Yellow Creek: 0.4 Miles From Station	Kentucky
11NPSWRD	CUGA_NURE_01	Kybe505r	Kentucky
11NPSWRD	CUGA_NURE_02	Kybe548r	Kentucky
11NPSWRD	CUGA_NURE_03	Kybe551r	Kentucky
TDECWPC	FALL007.6CU	Fall Creek @ RM 7.6	Kentucky
21KY	PRI009	Cumberland River At Cumberland Falls	Kentucky
21KY	PRI086	Cumberland River At Calvin	Kentucky
21KY	PRI087	Clear Fork Near Williamsburg	Kentucky
21KY	WRP001	Bad Branch	Kentucky

Table A4-3b.

Table A4-3a-b. STORET Water Quality Monitoring Stations in the Clear Fork of the Cumberland River Watershed. NPSWRD, National Park Service Water Resources Division; TDECWPC, Tennessee Department of Environment and Conservation Division of Water Pollution Control; UT, Unnamed Tributary.

FACILITY NUMBER	FACILITY NAME	SIC	SIC NAME	MADI	WATERBODY	HUC-12
TN0022861	Jellico STP	4952	Sewerage System	Minor	Elk Fork Creek @ RM 2.1	051301010506

Table A4-4. NPDES Permittees in the Clear Fork of the Cumberland River Watershed. SIC, Standard Industrial Classification; MADI, Major Discharge Indicator.

FACILITY NUMBER	PERMITEE	WATERBODY	HUC-12
TN0060852	Clearfork Utilty District WTP	UT to Clear Fork of the Cumberland River	051301010501

Table A4-5. Water Treatment Plants in the Clear Fork of the Cumberland River Watershed.

FACILITY NUMBER	PERMITEE	SIC	SIC NAME	WATERBODY	HUC-12
TN0045977	White Oak Coal Corporation (Motch Tipple)	1221	Bituminous Coal and Lignite Surface Mining	Bennetts Fork Creek	051301010401
TN0054097	Appolo Fuels, Incorporated (Deep Mines #1 and #3 and Surface Mine #2)	1221	Bituminous Coal and Lignite Surface Mining	Langley Branch	051301010401
TN0071765	Appolo Fuels, Incorporated (Buckeye Springs Mine #1)	1221	Bituminous Coal and Lignite Surface Mining	WWC to Watson Branch	051301010401
TN0072338	Appolo Fuels, Incorporated (Bennett's Fork)	1221	Bituminous Coal and Lignite Surface Mining	Bennetts Fork, Tackett Creek	051301010401
TN0076309	Bell County Coal Corporation (Cabin Hollow Mine #1)	1221	Bituminous Coal and Lignite Surface Mining	Cabin Hollow	051301010401
TN0045454	Kopper-Glo Fuel, Incorporated (Deep Mine #1)	1222	Bituminous Coal Underground Mining	Rock Creek	051301010501
TN0053431	Kopper-Glo Fuel, Incorporated (Deep Mine #3)	1222	Bituminous Coal Underground Mining	Rock Creek	051301010501
TN0053759	Kopper-Glo Fuel, Incorporated (Marion Tipple)	1221	Bituminous Coal Tipple and Loading Area	Rock Creek	051301010501
TN0062952	Kopper-Glo Fuel, Incorporated (Refuse Area #2)	1221	Bituminous Coal Refuse Area	UT to Tackett Creek	051301010501
TN0071323	Robert Clear Coal Company (Area #5)	1221	Bituminous Coal and Lignite Surface Mining	Straight Creek	051301010501
TN0072176	Appolo Fuels, Incorporated (Jellico North Deep Mine)	1222	Bituminous Coal Underground Mining	Bear Creek, Valley Creek	051301010501
TN0072214	Mountainside Coal Company (Double Mtn Surface Mine #2)	1221	Bituminous Coal and Lignite Surface Mining	Spruce Lick Branch, Straight Creek	051301010501
TN0072281	Mountainside Coal Company (Cooper Ridge Area #1)	1221	Bituminous Coal and Lignite Surface Mining	Straight Creek, Nolan Branch	051301010501
TN0072567	Mountainside Coal Company (Cooper Ridge Area #2)	1221	Bituminous Coal and Lignite Surface Mining	Spar Branch, Straight Creek, UT to Straight Creek	051301010501
TN0072575	Mountainside Coal Company (Leach Mountain Area 6A/6B)	1221	Bituminous Coal and Lignite Surface Mining	Straight Creek, Tackett Creek, White Oak Branch	051301010501
TN0072818	Appolo Fuels, Incorporated (Jellico South Deep Mine)	1222	Bituminous Coal Underground Mining	Valley Creek	051301010501

Table A4-6a.

FACILITY NUMBER	PERMITEE	SIC	SIC NAME	WATERBODY	HUC-12
TN0076406	Mountainside Coal Company (Cooper Ridge Area #3)	1221	Bituminous Coal and Lignite Surface Mining	UT to Bright Creek	051301010501
TN0076414	Appolo Fuels, Incorporated (Jellico Strip Mine)	1222	Bituminous Coal Underground Mining	Clear Fork, Valley Creek, Hurricane Creek, Pigeon Roost Branch, Unnamed Tributaries	051301010501
TN0079235	Mountainside Coal Company (Harris Branch Surface Mine)	1221	Bituminous Coal and Lignite Surface Mining	UT to Rock Creek	051301010501
TN0048895	Consolidate Coal Company (Matthews Mine Complex)	1222	Bituminous Coal Underground Mining	Tackett Creek and Spruce Lick Creek	051301010502
TN0071196	Tennessee Mining, Inc. (Claiborne Mine #2)	1221	Bituminous Coal and Lignite Surface Mining	Tackett Creek, Spruce Lick Branch	051301010502
TN0071650	Mountainside Coal Company (Leach Mtn Surface Area #2)	1221	Bituminous Coal and Lignite Surface Mining	Straight Creek, UT to Tackett Creek, White Oak Branch	051301010502
TN0071773	Appolo Fuels, Incorporated (Buckeye Springs Mine #2)	1221	Bituminous Coal and Lignite Surface Mining	UT to Tackett Creek	051301010502
TN0071838	Gatliff Coal Company (Tackett Creek Area #14)	1221	Bituminous Coal and Lignite Surface Mining	Tackett Creek, Little Tackett Creek	051301010502
TN0071986	Appolo Fuels, Incorporated (Tackett Creek Surface Mine)	1221	Bituminous Coal and Lignite Surface Mining	UT to Tackett Creek	051301010502
TN0072044	Appolo Fuels, Incorporated (Horseshoe Mtn Surface Mine)	1221	Bituminous Coal and Lignite Surface Mining	Spruce Lick Branch, Valley Creek, Straight Creek	051301010502
TN0072877	Mountainside Coal Company (Leach Mountain Area 6C/6D)	1221	Bituminous Coal and Lignite Surface Mining	Tackett Creek, Straight Creek	051301010502
TN0076295	Mountainside Coal Company (Eagan Mountain Surface) Mine	1221	Bituminous Coal and Lignite Surface Mining	Tackett Creek, Clear Fork	051301010502
TN0079727	Appolo Fuels, Incorporated (Buckeye Springs Horseshoe Mountain)	1222	Bituminous Coal Underground Mining	UT to Spruce Lick Creek, Valley Creek, Straight Creek	051301010502
TN0055140	Hinkle Contracting Corp. (Jellico Stone Quarry)	1422	Limestone Crushed and Broken	Clear Fork Creek	051301010503
TN0042722	Garcoal, Incorporated (Newcomb Tipple)	1221	Bituminous Coal Tipple and Loading Area	Elk Creek	051301010506
TN0052493	W.H. Bowlin Coal Company (Tipple #1)	1221	Bituminous Coal Tipple and Loading Area	Elk Creek	051301010506
TN0066095	Elk View Land and Gravel (Area #1)	1442	Construction Sand Mining	Elk Creek	051301010506

Table A4-6b.

FACILITY NUMBER	PERMITEE	SIC	SIC NAME	WATERBODY	HUC-12
TN0071714	DeWayne Rowe Logging and Coal Hauling (Area #1)	1221	Bituminous Coal and Lignite Surface Mining	Crooked Creek and Indian Creek	051301010506
TN0076376	Robert Clear Coal Company (Area #9)	1221	Bituminous Coal and Lignite Surface Mining	Unnamed Tributaries	051301010506
TN0079138	Rowe Logging, LLC (Auger Area #1)	1221	Bituminous Coal and Lignite Surface Mining	Crooked Creek	051301010506
TN0050679	Tennessee Mining, Inc. (Coal Wash Facility)	1221	Preparation Plants, Bituminous Coal or Lignite	John Barley Hollow	051301010601
TN0052311	Tennessee Mining, Inc. (Deep Mine #3)	1222	Bituminous Coal Underground Mining	Barley Creek	051301010601
TN0052027	Tennessee Mining, Inc. (Rex Mine #1)	1222	Bituminous Coal Underground Mining	Stinking Creek	051301010602
TN0072451	West Frk2, LLC (Charlie Hollow Deep Mine)	1222	Bituminous Coal Underground Mining	Charlie Hollow	051301010602
TN0063576	Gatliff Coal Company (White Oak Area #4)	1221	Bituminous Coal and Lignite Surface Mining	White Oak Creek	051301010603
TN0068918	Gatliff Coal Company (White Oak Area #11)	1221	Bituminous Coal and Lignite Surface Mining	White Oak Creek, Davis Creek	051301010603
TN0070963	Gatliff Coal Company (White Oak Area #15)	1221	Bituminous Coal and Lignite Surface Mining	White Oak Creek	051301010603
TN0071145	Gatliff Coal Company (White Oak Area #12)	1221	Bituminous Coal and Lignite Surface Mining	Tackett Creek, White Oak Creek	051301010603

Table A4-6c.

Table A4-6a-c. Active Permitted Mining Sites in the Clear Fork of the Cumberland River Watershed. SIC, Standard Industrial Classification; UT, Unnamed Tributary; WWC, Wet Weather Conveyance.

LOG NUMBER	COUNTY	DESCRIPTION	WATERBODY	HUC-12
NRS02.160	Campbell	Bridge Repairs	Terry Creek	051301010506

Table A4-7. Individual ARAP Permits Issued January 2000 Through June 2004 in the Clear Fork of the Cumberland River Watershed.