DEPARTMENT OF THE ARMY
CHARLESTON DISTRICT, CORPS OF ENGINEERS
69A HAGOOD AVENUE
CHARLESTON, SOUTH CAROLINA 29403-5107

REPLY TO
ATTENTION OF

December 14, 2010

Regulatory Division

Mr. F. David Haddon
Senior Environmental Specialist
SCE&G
2112 North Lake Drive
Columbia, South Carolina 29212

Dear Mr. Haddon:

This is in response to your letter of October 6, 2010, requesting a Preliminary Jurisdictional Determination (Preliminary), on behalf of SCE&G and Santee Cooper, for four linear utility corridors comprising approximately 5,485.7 acres (392 miles in length), located in portions of Calhoun, Colleton, Dorchester, Fairfield, Hampton, Lancaster, Lexington, Newberry, Orangeburg and Richland Counties, South Carolina. The project areas (utility corridors) are depicted on the drawings prepared by your office and entitled as follows:

1) SCE&G Site Relocation Transmission Corridors—Jurisdictional Waters of the US within the Proposed Site Relocation Transmission Corridors Outside of Site Boundary (Sheet 01) dated September 27, 2010
2) SCE&G Killian #1 route—Sheet Index VCS – Killian #1 Transmission Corridor dated September 27, 2010 and Jurisdictional Waters of the US within the Proposed VCS – Killian #1 Transmission Corridor dated September 22, 2010 (Sheets 1 through 33 of 33)
3) SCE&G St. George #1 and Lake Murray #2 route—Sheet Index VCS – St. George #1 and VCS – Lake Murray #2 Transmission Corridor dated September 27, 2010 and Jurisdictional Waters of the US within the Proposed VCS – St. George #1 and VCS – Lake Murray #2 Transmission Corridor (Sheets 1 through 20 of 20) dated September 22, 2010
4) SCE&G St. George #1 and St. George #2 route—Sheet Index VCS – St. George #1 and VCS St. George #2 Transmission Corridor (Sheets 1 through 4 of 4) dated September 27, 2010 and Jurisdictional Waters of the US within the Proposed VCS – St. George #1 and #2 Transmission Corridor (Sheets 1 through 69 of 69) dated September 22, 2010
5) SCE&G St. George #2 route—Sheet Index VCS – St. George #2 Transmission Corridor dated September 27, 2010 and Jurisdictional Waters of the US within the Proposed VCS – St. George #2 Transmission Corridor (Sheets 1 through 17 of 17) dated September 22, 2010
6) Santee Cooper Varnville route—Figure 1: Sheet Index for Proposed VCSNS-Varnville Line (Sheets 1 through 5 of 5) dated October 4, 2010 and Figure 2: Jurisdictional Waters of the US Within the Proposed VCSNS-Varnville Transmission Corridor (Sheets 1 through 129 of 129) dated October 3, 2010 within updates dates November 5, 2010
7) Santee Cooper Flat Creek route—Figure 1: Sheet Index for proposed VCSNS-Flat Creek Line (Sheets 1 and 2) dated October 4, 2010 and Figure 2: Jurisdictional Waters of the US Within the Proposed VCSNS-Flat Creek Transmission Corridor (Sheets 1 through 61 of 61) dated October 3, 2010.

A preliminary jurisdictional determination is used to indicate that this office has identified wetlands or other waters on the property and believes these waters may be jurisdictional waters of the United States. Since the Preliminary does not verify the actual jurisdictional status of wetlands and/or waters of the United States on the property, it relies on the presumption of jurisdiction for the purpose of expediting the request for a Preliminary.

Based on an on-site inspection, a review of aerial photography, topographic maps, National Wetland Inventory maps, soil survey mapping and other relevant information, it has been concluded that the boundaries shown on the referenced sketch or plat are a reasonable approximation of the location and boundaries of the waters found on this site. The property in question contains approximately 636.69 acres of federally defined freshwater wetlands or other waters and 101,554 linear feet of streams. You are cautioned that this delineation is approximate, subject to change, and should be used for planning purposes only. This office should be contacted prior to performing any work in or around these wetlands or other waters. In order for a definitive determination to be provided, these areas should be located and marked on-site, sketched or surveyed, platted on a map, and should be accompanied by a request for an Approved Jurisdictional Determination. Upon receipt of such a request, this office can then issue an approved determination as to jurisdiction (rather than the presumption of jurisdiction). You should also be aware that the areas identified as wetlands or other waters may be subject to restrictions or requirements of other state or local government entities.

Please note that since this jurisdictional determination is a Preliminary, it is subject to change and therefore is not an appealable action under the Corps of Engineers administrative appeal procedures defined at 33 CFR 331. If a permit application is forthcoming as a result of this Preliminary, a copy of this letter, as well as the attached sketch or plat should be submitted as part of the application. Otherwise, a delay could occur in confirming that a preliminary jurisdictional determination was performed for the permit project area.

This preliminary jurisdictional determination is a non-binding action and as such has no expiration until it is superseded by an Approved Jurisdictional Determination. If you intend to request an Approved Jurisdictional Determination in the future, you are advised not to commence work in these wetlands and/or waters prior to receiving the Approved Jurisdictional Determination.

In future correspondence concerning this matter, please refer to SAC 2010-1380-SJR. You may still need state or local assent. Prior to performing any work, you should contact the South Carolina Department of Health and Environmental Control. A copy of this letter is being forwarded to them for their information.

Enclosed are two copies of the Preliminary Jurisdictional Determination Form signed by our office. Please sign both copies, retain one copy for your records and return one signed copy to this office in the enclosed self-addressed envelope.

If you have any questions concerning this matter, please contact me at 843-329-8044 or toll free at 1-866-329-8187.

Sincerely,

Richard L. Darden, Ph.D.
Project Manager
Special Projects Branch

Enclosures:
Preliminary Jurisdictional Determination Form
Self-addressed envelope

Copy Furnished:

South Carolina Department of Health
and Environmental Control
Bureau of Water
2600 Bull Street
Columbia, South Carolina 29201

Ms. Patricia Vokoun
Project Manager
Office of New Reactors
United States Nuclear Regulatory Commission
Mail Stop T7E30
Washington, DC 20555-0001

ATTACHMENT

PRELIMINARY JURISDICTIONAL DETERMINATION FORM

BACKGROUND INFORMATION

A. REPORT COMPLETION DATE FOR PRELIMINARY JURISDICTIONAL DETERMINATION (JD): December 13, 2010

B. NAME AND ADDRESS OF PERSON REQUESTING PRELIMINARY JD: F. David Haddon, SCANA Services, Inc., 1426 Main Street Columbia, SC 29201

C. DISTRICT OFFICE, FILE NAME, AND NUMBER: Charleston District, VC Summer Transmission Lines, SAC 2010-1380-SJR

D. PROJECT LOCATION(S) AND BACKGROUND INFORMATION: Main site: Fairfield County, with transmission line routes passing through portions of Calhoun, Colleton, Dorchester, Fairfield, Hampton, Lancaster, Lexington, Newberry, Orangeburg, Richland Counties.
(USE THE ATTACHED TABLE TO DOCUMENT MULTIPLE WATERBODIES AT DIFFERENT SITES)

State: South Carolina County/parish/borough: see above City:
Center coordinates of site (lat/long in degree decimal format): Lat. 32.283° N, Long. -81.315° W.

Universal Transverse Mercator:

Name of nearest waterbody: Broad River

Identify (estimate) amount of waters in the review area:

Non-wetland waters: 101,554 linear feet: width (ft) and/or acres.

Cowardin Class:
Stream Flow:
Wetlands: 636.69 acres.
Cowardin Class:

Name of any water bodies on the site that have been identified as Section 10 waters:

Tidal:

Non-Tidal: Catawba River

E. REVIEW PERFORMED FOR SITE EVALUATION (CHECK ALL THAT APPLY):

☒ Office (Desk) Determination. Date: November/December 2010
☒ Field Determination. Date(s): October/November 2010

1. The Corps of Engineers believes that there may be jurisdictional waters of the United States on the subject site, and the permit applicant or other affected party who requested this preliminary JD is hereby advised of his or her option to request and obtain an approved jurisdictional determination (JD) for that site. Nevertheless, the permit applicant or other person who requested this preliminary JD has declined to exercise the option to obtain an approved JD in this instance and at this time.

2. In any circumstance where a permit applicant obtains an individual permit, or a Nationwide General Permit (NWP) or other general permit verification requiring "pre-construction notification" (PCN), or requests verification for a non-reporting NWP or other general permit, and the permit applicant has not requested an approved JD for the activity, the permit applicant is hereby made aware of the following: (1) the permit applicant has elected to seek a permit authorization based on a preliminary JD, which does not make an official determination of jurisdictional waters; (2) that the applicant has the option to request an approved JD before accepting the terms and conditions of the permit authorization, and that basing a permit authorization on an approved JD could possibly result in less compensatory mitigation being required or different special conditions; (3) that the applicant has the right to request an individual permit rather than accepting the terms and conditions of the NWP or other general permit authorization; (4) that the applicant can accept a permit authorization and thereby agree to comply with all the terms and conditions of that permit, including whatever mitigation requirements the Corps has determined to be necessary; (5) that undertaking any activity in reliance upon the subject permit authorization without requesting an approved JD constitutes the applicant's acceptance of the use of the preliminary JD, but that either form of JD will be processed as soon as is practicable; (6) accepting a permit authorization (e.g., signing a proffered individual permit) or undertaking any activity in reliance on any form of Corps permit authorization based on a preliminary JD constitutes agreement that all wetlands and other water bodies on the site affected in any way by that activity are jurisdictional waters of the United States, and precludes any challenge to such jurisdiction in any administrative or judicial compliance or enforcement action, or in any administrative appeal or in any Federal court; and (7) whether the applicant elects to use either an approved JD or a preliminary JD, that JD will be processed as soon as is practicable. Further, an approved JD, a proffered individual permit (and all terms and conditions contained therein), or individual permit denial can be administratively appealed pursuant to 33 C.F.R. Part 331, and that in any administrative appeal, jurisdictional issues can be raised (see 33 C.F.R. 331.5(a)(2)). If, during that administrative appeal, it becomes necessary to make an official determination whether CWA jurisdiction exists over a site, or to provide an official delineation of jurisdictional waters on the site, the Corps will provide an approved JD to accomplish that result, as soon as is practicable. This preliminary JD finds that there *"may be"* waters of the United States on the subject project site, and identifies all aquatic features on the site that could be affected by the proposed activity, based on the following information:

SUPPORTING DATA. Data reviewed for preliminary JD (check all that apply - checked items should be included in case file and, where checked and requested, appropriately reference sources below):

☒ Maps, plans, plots or plat submitted by or on behalf of the applicant/consultant: SCE&G on behalf of Santee Cooper and their consultants.

☒ Data sheets prepared/submitted by or on behalf of the applicant/consultant.

- ☒ Office concurs with data sheets/delineation report. (Office concurs with conclusions reached on data sheets).
- ☐ Office does not concur with data sheets/delineation report.

☐ Data sheets prepared by the Corps: .

☐ Corps navigable waters' study: .

☐ U.S. Geological Survey Hydrologic Atlas: .

- ☐ USGS NHD data.
- ☐ USGS 8 and 12 digit HUC maps.

☒ U.S. Geological Survey map(s). Cite scale & quad name: 7.5 minute quadrangles were used for complete coverage of 392 miles of routes. Quad-based mapping is included in the project file.

☒ USDA Natural Resources Conservation Service Soil Survey. Citation: Soil mapping overlaid on quad maps were used for entire 392 miles of route. Soil mapping is included in the project file.

☐ National wetlands inventory map(s). Cite name: .

☐ State/Local wetland inventory map(s): .

☐ FEMA/FIRM maps: .

☐ 100-year Floodplain Elevation is: (National Geodectic Vertical Datum of 1929)

☒ Photographs: ☒ Aerial (Name & Date):SCDNR 2006 aerial images.
or ☐ Other (Name & Date): .

☐ Previous determination(s). File no. and date of response letter: .

☐ Other information (please specify): .

IMPORTANT NOTE: The information recorded on this form has not necessarily been verified by the Corps and should not be relied upon for later jurisdictional determinations.

Signature and date of Regulatory Project Manager (REQUIRED)	Signature and date of person requesting preliminary JD (REQUIRED, unless obtaining the signature is impracticable)

SAMPLE

Site number	Latitude	Longitude	Cowardin Class	Estimated amount of aquatic resource in review area	Class of aquatic resource
1				0.1 acre	section 10 – tidal
2				100 linear feet	section 10 – non-tidal
3				15 square feet	non-section 10 – wetland
4				0.01 acre	non-section 10 – non-wetland

Aquatic resource data tables are attached behind this sheet.

Summary of All Routes
JD Calculations
SAC 2010-1380-SJR

Route	Number of crossings	Streams (lf)	Wetlands (ac)	Open Water (ac)
Plant Site Relocations (SCE&G)	4	851	0.42	0
Killian #1 (SCE&G)	45	5194	31.17	0.81
St. George #1 & Lake Murray #2 (SCE&G)	35	5017	7.68	1.09
St. George #1 & St. George #2 (SCE&G)	99	20675	183.92	9.9
St. George #2 (SCE&G)	30	5339	2.92	0.35
Varnville Line (Santee Cooper)	177	37987	353.54	17.94
Flat Creek Line (Santee Cooper)	151	26491	12.497	14.45
Totals	541	101554	592.147	44.54

Plant Site Relocation Route
JD Calculations
SAC 2010-1380-SJR

Plant Site Relocation	Stream (lf)	Wetland (ac)	Open Water (ac)
SCE-1	119	0.17	
SCE-2	106	0.13	
SCE-3	353	0.07	
SCE-4	273	0.05	
Subtotal	**851**	**0.42**	**0**
Number of crossings	**4**		

Killian #1 Route
JD Calculations

Killian #1	Stream (lf)	Wetland (ac)	Open Water (ac)
SCE-5	70		
SCE-6	74		
SCE-7	24		
SCE-8	96		
SCE-9	82		
SCE-10	91		
SCE-11	91		
SCE-12		0.04	
SCE-13	117		
SCE-14	155	0.95	
SCE-15	96		
SCE-16			0.3
SCE-17	207		
SCE-18	127		
SCE-19	99		
SCE-20	120	0.22	
SCE-21		0.32	
SCE-22	91		
SCE-23	94	0.24	
SCE-24	90		
SCE-25	168		
SCE-26	100	0.4	
SCE-27	90		
SCE-28	145	0.35	
SCE-29		0.47	
SCE-30	91		
SCE-31		0.29	
SCE-32	95	1.5	
	382		
SCE-33			0.51
SCE-34	103	0.49	
SCE-35	70	0.16	
SCE-36		0.77	

Killian #1 Route
JD Calculations

SCE-37	71		
SCE-38	70		
SCE-39		0.57	
SCE-40	247		
SCE-41	77		
SCE-42	242		
SCE-43		2.38	
SCE-44	104		
SCE-45	72		
SCE-46	97		
SCE-47	85		
SCE-48	70		
SCE-49		0.03	
SCE-50	91		
SCE-51	94		
SCE-52		0.24	
SCE-53	184	0.8	
SCE-54		0.3	
SCE-55		0.17	
SCE-56		0.23	
SCE-57	128	0.65	
SCE-58		0.47	
SCE-59		0.8	
SCE-60		0.54	
SCE-61		0.51	
SCE-62		0.04	
SCE-63	62	0.33	
SCE-64		0.07	
SCE-65		0.08	
SCE-66		0.15	
SCE-67		1.41	
SCE-68	136	2.25	
SCE-69	121	1.01	
SCE-70		0.23	

Killian #1 Route
JD Calculations

SCE-71		0.42	
SCE-72		0.76	
SCE-73	153	0.8	
SCE-74		0.37	
SCE-75		0.55	
SCE-76		0.43	
SCE-77	122	8.38	
Subtotal	**5194**	**31.17**	**0.81**
Number of crossings	**45**		

St. George #1 and Lake Murray #2 Route
JD Calculations

St. George #1 & Lake Murray #2	Stream (lf)	Wetland (ac)	Open Water (ac)
SCE-114	121		
SCE-114.1	375	1.16	
SCE-115		1.01	
SCE-116	143		
SCE-117	143		
SCE-118	130		
SCE-119		0.52	
SCE-120		0.82	
SCE-121	125		
SCE-122		0.03	
SCE-123	148	0.05	
SCE-124	173		
SCE-125	190		
SCE-126	138		
SCE-127	78		
SCE-128	380		
SCE-129	71		
SCE-130	300		
SCE-131	281	1.05	
SCE-132	108	0.28	
SCE-133	96		
SCE-134	138	0.38	
SCE-135	98	0.2	
SCE-136	101	0.41	
SCE-137	311		
SCE-138	66	0.44	0.29
SCE-139	42		0.42
SCE-140	98		
SCE-141	109		
SCE-142	104		0.1
SCE-143	100		
SCE-144		0.33	
SCE-145	98		

St. George #1 and Lake Murray #2 Route
JD Calculations

SCE-146	117		
SCE-147			0.28
SCE-148	105		
SCE-149	117		
SCE-150	105		
SCE-151	99		
SCE-152	112	0.35	
SCE-153	97	0.2	
SCE-153.1		0.45	
Subtotal	**5017**	**7.68**	**1.09**
Number of crossings	**35**		

St. George #1 and St. George #2 Route

SAC 2010-1380-SJR

JD Calculations

Name	Sheet #		stream (lf)	wetlands (ac)	open waters (ac)
VCS-St. George #1 and VCS- St. George #2 Transmission Corridor	1	SCE-154		4.64	
	2	SCE-155		2.83	
		SCE-156	214		
		SCE-157			0.42
	3	SCE-158	221	0.88	
		SCE-159	214	1.51	
		SCE-160		0.62	
	4	SCE-161		0.62	
		SCE-162	211		
		SCE-163	204		
	5	SCE-164	207		
		SCE-165		0.86	
		SCE-166	204	1.16	
		SCE-167		0.19	
	6				
	7	SCE-168		1.13	
		SCE-169	218		
		SCE-170		2	
		SCE-171	210		
		SCE-172		1.74	
		SCE-173	183	0.97	
		SCE-174	225	4.98	
	8	SCE-175		1.07	
		SCE-176	167		
		SCE-177		1.79	
		SCE-178	160	0.72	
	9	SCE-179	67	0.59	0.46
		SCE-180			0.26
	10	SCE-181	261	0.78	
	11	SCE-182	269		
		SCE-183		0.16	
	12	SCE-184	145	1.77	

St. George #1 and St. George #2 Route
JD Calculations

			145		
		SCE-185	156	5.12	
	13	SCE-186	433	10.73	
	14	SCE-187			0.36
		SCE-188		0.75	
		SCE-189	675	5.54	
	15	SCE-190	202		
	16	SCE-191	204	2.09	
	17	SCE-192	286		
		SCE-193	202		
		SCE-194	62		0.91
		SCE-195		1	
	18	SCE-196	229	6.07	
		SCE-197	271	0.6	
	19	SCE-198		0.32	
	20	SCE-199	101	0.64	
		SCE-200	118		
	21	SCE-201		0.3	
		SCE-202	105		
		SCE-203	109	1.48	
	22	SCE-204	102	0.39	
		SCE-205			0.14
		SCE-206		0.39	
		SCE-207		0.53	
	23	SCE-208	116	0.63	
		SCE-209	101		
		SCE-210	121		
		SCE-211		1.11	
	24	SCE-212	106	0.51	
		SCE-213	126		
	25	SCE-214	59	2.18	0.24
		SCE-215	243	1.84	
	26	SCE-216		0.59	
		SCE-217		1.45	

St. George #1 and St. George #2 Route
JD Calculations

		SCE-218		0.18	
	27	SCE-219		0.58	
	28	SCE-220	193		
		SCE-221	118	0.72	0.72
		SCE-222		0.27	
		SCE-223	87	2.01	0.87
					0.37
					2.01
	29	SCE-224	304	2.09	
		SCE-224.1			1.21
		SCE-225		0.13	
	30	SCE-226		0.62	
		SCE-227		0.65	
		SCE-228	43	0.21	0.34
	31	SCE-229		0.99	
	32				
	33	SCE-230		0.71	
		SCE-231		0.41	
	34	SCE-232		1.68	
		SCE-233		0.22	
		SCE-234		0.09	
		SCE-235		0.16	
	35	SCE-236		0.53	
		SCE-237		0.4	
		SCE-238		0.41	
		SCE-239		1.1	
		SCE-240		0.42	
	36	SCE-241		1.58	
		SCE-242		1.98	
		SCE-243		0.21	
		SCE-244			0.47
	37	SCE-245	104	1.72	
		SCE-246		2.43	
		SCE-247		0.21	0.14

St. George #1 and St. George #2 Route
JD Calculations

				0.14	
		SCE-248		0.74	
	38	SCE-249	243	3.77	
			223		
	39	SCE-250		1.22	
		SCE-251		0.76	
		SCE-252	110	1.18	
	40				
	41	SCE-253	105	0.83	
		SCE-254		0.7	
		SCE-255		0.34	
		SCE-256		0.69	
	42	SCE-257		1.06	
		SCE-258		1.09	
		SCE-259		0.73	
	43	SCE-260		0.47	
		SCE-261		0.92	
	44	SCE-262			0.55
	45	SCE-263		0.44	
		SCE-264	219		
	46	SCE-265	106	3.02	
		SCE-266		1.35	
		SCE-267	136		
		SCE-268		2.51	
	47	SCE-269		1.61	
	48	SCE-270		0.04	
		SCE-271	111	1.17	
			90		
		SCE-272	94		
	49	SCE-273		0.76	
		SCE-274	36		
		SCE-275	14		
		SCE-276	129		
		SCE-277	3770		

St. George #1 and St. George #2 Route
JD Calculations

	50	SCE-278	53		
	51	SCE-279		0.27	
		SCE-280	133		
	52	SCE-281	138	2.72	
		SCE-282	125		
		SCE-283	125		
		SCE-284	131		
	53	SCE-285	634		
		SCE-286	127	1.1	
		SCE-287	130		
		SCE-288	128		
		SCE-289		0.74	
		SCE-290	125		
		SCE-291	142		
	54	SCE-292	148	4.21	
		SCE-293		1.09	
	55	SCE-294		1.13	0.38
		SCE-295	189	0.8	
		SCE-296	126	0.57	
	56	SCE-297		0.47	
		SCE-298		0.84	
		SCE-299	133		
		SCE-300		0.09	
		SCE-301		0.23	
		SCE-302	134		
	57	SCE-303	142	1.49	
		SCE-304		0.88	
		SCE-305		1.6	
		SCE-306	165		
		SCE-307	126		
	58	SCE-308	249		
		SCE-309		0.75	
		SCE-310	139	0.77	
		SCE-311		0.48	

St. George #1 and St. George #2 Route
JD Calculations

		SCE-312		2.35	0.05
	59	SCE-313	181		
		SCE-314	191		
		SCE-315		0.24	
		SCE-316	30		
		SCE-317		0.4	
	60	SCE-318		0.25	
		SCE-319	180		
		SCE-320		0.51	
	61	SCE-321	140		
		SCE-322		0.81	
		SCE-323		0.33	
	62	SCE-324		0.35	
		SCE-325		1.24	
	63	SCE-326		1.36	
		SCE-327	283	2.4	
		SCE-328		0.43	
		SCE-329	130	1.87	
		SCE-330		2.01	
	64	SCE-331		0.12	
		SCE-332		0.14	
		SCE-333		0.45	
		SCE-334	54		
		SCE-335	201		
		SCE-336		1.47	
	65	SCE-337		4.16	
		SCE-338		1.06	
		SCE-339		0.1	
		SCE-340		0.04	
		SCE-341	183		
	66	SCE-342		0.55	
		SCE-343		3.48	
		SCE-344		0.82	
		SCE-345		0.57	

St. George #1 and St. George #2 Route
JD Calculations

		SCE-346		1	
	67	SCE-347		0.1	
		SCE-348	151	2.01	
		SCE-349	165		
		SCE-350	530	4.14	
		SCE-351		1.24	
	68	SCE-352	226		
		SCE-353	229		
		SCE-354	189		
		SCE-355		0.58	
		SCE-356	183	1.87	
	69	SCE-357		1.72	
Total			**20675**	**183.92**	**9.9**
Number of Crossings			**99**		

St. George #2 Route
JD Calculations

Name	Sheet #		stream (lf)	wetlands (ac)	open waters (ac)
VCS-- St. George #2 Transmission Corridor	1				
	2	SCE-78	184		
	3	SCE-79	134		
		SCE-80	226		
		SCE-81	111		
	4	SCE-82	108		
		SCE-83	103		
		SCE-84	101		
	5	SCE-85	102	0.22	
		SCE-86	122		
		SCE-87	117		
		SCE-88	131		
	6	SCE-89	151		
		SCE-90	798		
	7	SCE-91	102		
		SCE-92	171		
		SCE-93	119		
	8	SCE-94	201		
		SCE-95	118		
		SCE-96	174		
	9				
	10	SCE-97	106		
		SCE-98	222		
	11	SCE-99	100		
		SCE-100	866		
		SCE-101	102		
	12	SCE-102	101		
	13	SCE-103	101		
		SCE-104			0.04
		SCE-105			0.31
	14	SCE-106	120		
	15	SCE-107	106		
		SCE-108	102		

St. George #2 Route
JD Calculations

		SCE-109		0.21	
	16	SCE-110	140	0.25	
		SCE-111		1.19	
		SCE-112		0.66	
	17	SCE-113		0.39	
Total			**5339**	**2.92**	**0.35**
Number of Crossings			**30**		

Varnville Route
JD Calculations

Name	Sheet #		stream (lf)	wetlands (ac)	open waters (ac)
VCSNS--Varnville Line	1				
	2	SC-148			5.23
					6.12
	3	SC-149	88		
			110		
	4	SC-150	246		
			126		
		SC-151	85		
			100		
	5				
	6	SC-152	267		
			1173		
	7	SC-153			0.28
					0.47
		SC-154	65		
			148		
		SC-155	51		
			103		
	8	SC-156			0.1
					0.06
		SC-157	62		
			128		
		SC-158	72		
			274		
	9	SC-159	135		
		SC-160	138		
	10	SC-161	140		
		SC-162	113		
	11	SC-163			1.15
	12	SC-164	106		
	13	SC-165	89		
			133		
	14	SC-166	248		

Varnville Route
JD Calculations

			210		
	15	SC-167	131		
			111		
		SC-168	91		
			94		
		SC-169	87		
			169		
	16	SC-170	118		
			89		
		SC-171	93	0.19	
				0.01	
		SC-172	135		
			339		
	17	SC-173	109		
			102		
	18	SC-174		0.29	
				0.48	
		SC-175	261	2.78	
			171	1.66	
		SC-176	86		
			86		
	19	SC-177	88	0.24	
			81	0.2	
	20	SC-178	98	0.82	
			228	0.06	
	21	SC-179		0.22	0.15
		SC-180			0.01
	22	SC-181	513	0.22	
			185		
		SC-182	85	0.06	
			85		
	23	SC-183	90		
			88		
		SC-184	95		

Varnville Route
JD Calculations

			97		
		SC-185	61		
			649		
	24	SC-186	183		
	25	SC-187	195		
		SC-188	177		
		SC-189	176		
		SC-190	158		
		SC-191	161		
	26	SC-192	255		
		SC-193	168		
	27	SC-194	183		
		SC-195	162		
		SC-196	393		
	28	SC-197	236		
		SC-198	362		
		SC-199	167		
		SC-200			1.7
	29				
	30	SC-201	150		
	31	SC-202	170		
		SC-203	219		
		SC-204	126		
	32	SC-205	378	1.23	
	33	SC-206	126	0.43	
		SC-207	203		
	34	SC-208	125		
		SC-209	133		
		SC-210	190		
	35	SC-211	130	0.99	
		SC-212	1433	0.74	
		SC-213		0.07	
	36	SC-214	87		
		SC-215	605	0.16	

Varnville Route
JD Calculations

		SC-216		0.2	
		SC-217		0.62	
		SC-218		1.21	
	37				
	38	SC-219	645	1.15	1.06
	39	SC-220	314	2.28	
	40	SC-221	566	3.5	
	41	SC-222	234	3.88	
		SC-223		0.39	
	42				
	43	SC-224	122	0.17	
	44				
	45	SC-225	252	3.4	
	46				
	47				
	48	SC-226	137		
	49				
	50	SC-227	104	0.79	
	51				
	52				
	53				
	54	SC-228		0.15	
	55				
	56	SC-229	103	4.75	
		SC-230	154	0.59	
	57	SC-231		0.55	
	58	SC-232	212	1.31	
	59				
	60	SC-233	301		
	61	SC-234	255		
		SC-235	100		
	62	SC-236		0.36	
	63	SC-237	102	0.86	
		SC-238	388		

Varnville Route
JD Calculations

	64	SC-239		0.86	
		SC-240	102	0.74	
		SC-241	101	1.26	
	65				
	66	SC-242	105	0.54	
	67	SC-243		0.35	
		SC-244			0.26
	68	SC-245	105	0.05	
	69	SC-246	106	1.25	
		SC-247	521	3.38	
	70	SC-248			0.3
		SC-249	107	0.86	
		SC-250	135	0.41	
	71	SC-251	143	0.39	
		SC-252		0.44	
		SC-253	101	0.62	
	72	SC-254		0.7	
		SC-255		0.46	
	73	SC-256	25	0.2	
		SC-257	586	8.25	
	74				
	75	SC-258		3.95	
		SC-259	778	3.4	0.18
	76	SC-260		0.37	
		SC-261	3317	22.06	
			106		
	77				
	78				
	79	SC-262	161		
		SC-263		1.99	
	80	SC-264	1292	0.11	
	81	SC-265	100		
		SC-266		1.27	
		SC-267	119	0.49	

Varnville Route
JD Calculations

	82	SC-268	119		
		SC-269		1.13	
	83	SC-270	113		
		SC-271	101		
		SC-272	121		
		SC-273		0.34	
		SC-274	230	6.11	
	84	SC-275		6.04	
	85	SC-276		0.68	
		SC-277		0.6	
		SC-415	104		
		SC-278	119	4.33	
	86	SC-279			0.21
		SC-280		0.62	
		SC-281	124		
		SC-282		3.38	
	87	SC-283			0.29
		SC-284		0.2	
		SC-285		0.07	
		SC-286		0.68	
		SC-287		0.69	
	88	SC-288	288		
		SC-289		0.25	
		SC-290		0.71	
		SC-291	114	0.01	0.11
		SC-292		0.89	
	89	SC-293	192		
		SC-294	108	1.07	
		SC-295	103	2.21	
		SC-296	302	0.08	
		SC-297		0.31	
	90	SC-298		0.15	
		SC-299	216	1.45	
		SC-300	107		

Varnville Route
JD Calculations

		SC-301		2.53	
	91	SC-302			0.04
		SC-303		2.67	
		SC-304		0.01	
	92	SC-305		0.74	
		SC-306	373	0.43	
		SC-307	203		
	93	SC-308	120	3.41	
		SC-309		0.25	
		SC-310	114	0.19	
		SC-311	285	3.01	
	94	SC-312		0.18	0.12
		SC-313	156	0.95	
		SC-314	129		
		SC-315		1.43	
		SC-316	123	2.22	
	95	SC-317		0.96	
		SC-318		5.08	
		SC-319	204		
	96	SC-320	100		
		SC-321		0.67	
		SC-322	103		
	97	SC-323	101	0.71	
				1.3	
		SC-324		0.89	
		SC-325	159	1.02	
		SC-331		0.56	
		SC-332	40	0.93	
	98	SC-329	4	2.1	
		SC-330		1.53	
	99	SC-326	151	0.03	
		SC-327	421	1.34	0.1
		SC-328		1.45	
	100	SC-333		0.42	

Varnville Route
JD Calculations

		SC-334		0.75	
		SC-335	244		
		SC-336		0.34	
		SC-337		1.96	
	101	SC-338		1.71	
		SC-339	153		
		SC-340	169		
		SC-341	153	1.37	
			290		
	102	SC-342	104	0.7	
		SC-343	136	8.24	
		SC-344	48	1.22	
	103	SC-345	103		
		SC-346		1.48	
		SC-347		0.01	
		SC-348	137	1.62	
	104	SC-349		1.93	
		SC-350	31	1.71	
		SC-351		0.12	
		SC-352	304	4.22	
	105	SC-353	249	5.74	
		SC-354	130	12.13	
	106	SC-355		0.56	
	107	SC-356		1.61	
		SC-357	109	2.06	
		SC-358		4.09	
	108	SC-359		1.8	
		SC-360	123	1.43	
	109	SC-361		0.23	
		SC-362		1.25	
		SC-363		1.27	
		SC-364		0.48	
	110	SC-365		1.99	
		SC-366		1.77	

Varnville Route
JD Calculations

	111	SC-367		0.3	
		SC-368		0.01	
		SC-369		1.37	
	112	SC-370	101	11.17	
	113	SC-371		0.22	
		SC-372	206	12.4	
	114	SC-373	109	1.72	
		SC-374		0.64	
		SC-375		0.8	
	115	SC-376		1	
		SC-377		7.02	
	116	SC-378		6.84	
		SC-379	143	8.18	
	117	SC-380		1.79	
		SC-381		2.31	
		SC-382		8.74	
	118	SC-383		0.51	
		SC-384		0.56	
		SC-385		0.7	
	119	SC-386		2.14	
		SC-387		0.02	
		SC-388		0.32	
	120	SC-389	469		
		SC-390	596	16.6	
	121	SC-391	113		
	122	SC-392		0.02	
		SC-393		4.11	
		SC-394		0.42	
		SC-395		0.3	
	123	SC-396		2.03	
		SC-397		3.93	
	124	SC-398		13.52	
	125	SC-399		0.84	
		SC-400		1.86	

Varnville Route
JD Calculations

	126	SC-401	204	2.55	
		SC-402		1.03	
		SC-403	141	1.16	
	127	SC-404		1	
		SC-405		1.17	
		SC-406		0.3	
		SC-407		0.75	
		SC-408		0.4	
	128	SC-409		1.16	
		SC-410		1.5	
		SC-411		4.08	
	129	SC-412		0.71	
		SC-413		1.01	
		SC-414		0.12	
TOTAL			**37987**	**353.54**	**17.94**
Number of Crossings			**177**		

Flat Creek Route
JD Calculations

Name	Sheet #		stream (lf)	wetlands (ac)	open waters (ac)
VCSNS--Flat Creek Line	1	SC-1	51		
			246		
		SC-2	55		
			268		
	2	SC-3	50		
			252		
		SC-4	117		
			346		
	3	SC-5	218		
			383		
	4	SC-6	54		
			6		
		SC-7	251		
	5	SC-8	107	0.17	
		SC-9	146		
	6	SC-10	102		
	7	SC-11	154		
		SC-12			0.25
		SC-13	111		
		SC-14	109		
	8	SC-15	102		
	9				
	10	SC-16	205	0.64	
		SC-17	102		
	11	SC-18	113		
		SC-19			3
		SC-20	165		
	12				
	13	SC-21			1.06
		SC-22		0.024	
	14	SC-23			1.38
	15	SC-24		0.02	0.12
		SC-25	159	0.51	

Flat Creek Route
JD Calculations

	16	SC-26	102		
		SC-27			0.34
		SC-28			0.47
	17	SC-29	105	0.02	
		SC-30	136	0.48	
		SC-31		0.33	
	18	SC-32	229		
	19	SC-33	121	0.3	
		SC-34	102	0.26	
		SC-35	113		
	20	SC-36	123		
		SC-37	122		
		SC-38	626	0.85	
	21	SC-39	116		
		SC-40	134		
	22	SC-41	110		
		SC-42	208		
		SC-43	252	0.25	
		SC-44	324		
		SC-45	135	0.13	
	23	SC-46	122	0.21	
		SC-47	172		
	24	SC-48	539		
		SC-49	113		
		SC-50	220	0.45	
	25	SC-51	464		
	26	SC-52	102		
		SC-53	94		
		SC-54	94		
	27	SC-55			0.19
		SC-56			0.09
		SC-57		0.003	
		SC-58	88	0.25	
	28	SC-59	323	0.18	

Flat Creek Route
JD Calculations

	29	SC-60	194		
		SC-61	115		
		SC-62	110		
		SC-63	86		
		SC-64	506		
	30	SC-65	88		
		SC-66	195	0.41	
			88		
	31	SC-67	94		
	32	SC-68	117		
		SC-69		0.53	
		SC-70	88		
	33	SC-71	100		
		SC-72	127	0.35	
		SC-73	90		
		SC-74	11	0.04	0.3
	34	SC-75	92		
		SC-76	116		
			120		
		SC-77	284		
			240		
	35	SC-78	109		
			107		
		SC-79	90		
			109		
		SC-80	182	0.25	
			248	0.67	
	36	SC-81	97	0.25	
			111	0.32	
		SC-82	153		
			176		
	37	SC-83	92		
			110		
	38	SC-84	59		

Flat Creek Route
JD Calculations

		SC-85	89		
			104		
	39	SC-86			2.55
					3.1
		SC-87	189		
			168		
	40	SC-88	250		
			158		
		SC-89	67		
			160		
		SC-90	153		
			186		
	41	SC-91	105		
			116		
	42	SC-92	89		
			125		
		SC-93	428		
	43	SC-94	87		
			105		
		SC-95		0.08	
		SC-96	85		
			101		
		SC-97	88	0.16	
		SC-98		0.24	
				0.21	
	44	SC-99	121		
			142		
	45	SC-100	125		
			190		
		SC-101	108	0.25	
	46	SC-102	106		
		SC-103	180		
		SC-104			0.07
	47	SC-105	101		

Flat Creek Route
JD Calculations

		SC-106	107		
		SC-107	131		
	48	SC-108	1277		
		SC-109	107	0.01	
		SC-110	179		
	49	SC-111	120		
		SC-112	102		
		SC-113	106	0.2	
		SC-114	112		
		SC-115			0.85
	50	SC-116		0.09	
		SC-117	966	0.08	
		SC-118			0.33
		SC-119	472		
	51	SC-120	160		
		SC-121	146	0.01	
		SC-122	122		
	52	SC-123	202		
		SC-124	134		
		SC-125	139	0.11	
		SC-126	310		
	53	SC-127	101		
		SC-128	108		
		SC-129	109		
	54	SC-130	138		
	55	SC-131			0.11
		SC-132	196		
		SC-133	451		
	56	SC-134	124		
		SC-135	118		
		SC-136	100		
	57	SC-137	113	0.22	
		SC-138	131	0.03	
	58	SC-139	127	0.5	

Flat Creek Route
JD Calculations

		SC-140	1369	2.26	
	59	SC-141	146		
		SC-142	107		
		SC-143	121		
	60	SC-144	145	0.15	
		SC-145			0.24
		SC-146	102		
	61	SC-147	102		
TOTAL			**26491**	**12.497**	**14.45**
Number of Crossings			**151**		