

From: [Andrew Grammer](#)
To: [Hamilton, Elizabeth A CIV USARMY CESAM \(USA\)](#)
Subject: [Non-DoD Source] RE: Request for Information // SAM-2019-00914-ES // NextEra Energy Pipeline Holdings (Lowman), Inc.
Date: Friday, May 29, 2020 12:58:08 PM
Attachments: [Waters of the US Data.kmz](#) **FOIA Note: Unable to open .kmz file**
[Attachment 8a - Wetlands Impacts 05292020.pdf](#)
[Attachment 8b - Waterbody Impacts Table 05292020.pdf](#)

Please find attached the revised tables for Appendix 8 and the KMZ file. The KMZ should include a lot of data layers, including CL, valves, mile posts, HDD drill points, access roads, pipe yards, landowner denied access, survey corridor, limits of disturbance, and wetland and waterbodies. Let us know if you have any questions or need additional information.

Thank you,
Andrew

W. ANDREW GRAMMER
3288 E. Phillips Drive
Centennial, CO 80122
M: 303.594.5617
edge-es.com

-----Original Message-----

From: Hamilton, Elizabeth A CIV USARMY CESAM (USA) <Elizabeth.A.Seavoy@usace.army.mil>
Sent: Friday, May 29, 2020 10:25 AM
To: Andrew Grammer <WAGrammer@edge-es.com>
Subject: RE: Request for Information // SAM-2019-00914-ES // NextEra Energy Pipeline Holdings (Lowman), Inc.

Mr. Grammer,

The statement regarding FERC is sufficient for the file. The requested items can be sent directly to me via email and I will replace the pages as appropriate.

Thank you for your quick response.

Respectfully,

Elizabeth A. Hamilton
U.S. Army Corps of Engineers
Project Manager
Mobile District, Regulatory Division
South Alabama Branch

-----Original Message-----

From: Andrew Grammer [<mailto:WAGrammer@edge-es.com>]
Sent: Friday, May 29, 2020 11:17 AM
To: Hamilton, Elizabeth A CIV USARMY CESAM (USA) <Elizabeth.A.Seavoy@usace.army.mil>
Subject: [Non-DoD Source] RE: Request for Information // SAM-2019-00914-ES // NextEra Energy Pipeline Holdings (Lowman), Inc.

Ms. Hamilton,

After reviewing your request, I think we can make the necessary changes and provide replacement pages for the

impacts tables (attachments 8A and 8B) along with the KMZ files requested. You are correct that the PCN ID was just to show which waterbodies triggered the PCN for the now vacated NWP 12; however, the table does represent all of the impacts to wetlands and waters across the project. We will remove the PCN language.

As for the FERC, this pipeline is not subject to their jurisdiction under the Natural Gas Act ("NGA"). Section 1(c) of the NGA carves out an exception for certain pipelines, commonly referred to as "Hinshaw" pipelines. To qualify as a Hinshaw pipeline: (1) the pipeline facilities must be wholly within one State; (2) all the natural gas received is ultimately consumed within such State; and (3) the rates and service of the pipeline be subject to regulation by a State commission. Lowman Pipeline is entirely within the state of Alabama, all the gas it transports will be consumed in Alabama, and the Alabama Public Service Commission will regulate Lowman Pipeline.

Is this email enough or do you need a statement on letterhead or provided in some other manner that can be included as an attachment or response to your email concerning the FERC's authority?

Also, I assume we can submit the revised and additional info via the dropbox provided and do not need to resubmit the entire application, but let us know if that is an incorrect assumption.

Thank you,
Andrew

W. ANDREW GRAMMER
3288 E. Phillips Drive
Centennial, CO 80122
M: 303.594.5617
edge-es.com

-----Original Message-----

From: Hamilton, Elizabeth A CIV USARMY CESAM (USA) <Elizabeth.A.Seavoy@usace.army.mil>
Sent: Thursday, May 28, 2020 12:57 PM
To: Andrew Grammer <WAGrammer@edge-es.com>
Subject: Request for Information // SAM-2019-00914-ES // NextEra Energy Pipeline Holdings (Lowman), Inc.

Mr. Grammer,

Reference is made to the application you submitted on behalf NextEra Energy, requesting a Department of the Army permit to work and place fill material in waters of the U.S. for installation of a new natural gas pipeline in Choctaw and Washington Counties. This project has been assigned file number SAM-2020-0914-ES, which should be referred to in all correspondence.

After our initial review of the application, the following information will be required prior to issuance of the public notice:

1. TOTAL IMPACTS:

a. Provide further details regarding impacts designated on the submitted impact tables as "non-PCN". Pre-Construction Notification requirements for NWP-12 are no longer applicable to new oil/gas pipelines. Should the determination of "no PCN required" have been determined following NWP-12 conditions, these impacts will need to be accounted for and included in the project plans.

b. Provide the completed wetland survey so that all other impacts may be accounted for.

2. Provide a copy of any documentation relating to the project issued by Federal Energy Regulatory Commission.

Please provide the following information so that we may continue our review:

PROJECT FOOTPRINT - Please provide a .kml or shapefile of the following details:

a. Path of the pipeline.

b. Delineated waters.

Cultural review: Please be aware that a USACE archaeologist will be reviewing the permit area of this project for potential impacts to cultural resources. Based on that review, this office will make an effects determination, which may be coordinated with the Alabama State Historic Preservation Officer (SHPO), who has 30-days to concur or offer comments on the federal determination. We will not be able to finalize our evaluation until this process is completed. Should any existing cultural resources surveys of the property be available, please provide the documents to our office for review.

Please submit the above requested information within 30 days of the date of this correspondence, so we may continue our evaluation. The application will be held in abeyance until this information is received or the deadline has passed. If we do not receive the information by the above deadline date, we will assume that the applicant no longer wishes to pursue this activity, and this application will be withdrawn and application number cancelled without prejudice.

Respectfully,

Elizabeth A. Hamilton
U.S. Army Corps of Engineers
Project Manager
Mobile District, Regulatory Division
South Alabama Branch

Attachment 8a Wetlands Impacts Table
 Lowman Pipeline Project
 NextEra Energy Pipeline (Lowman), Inc.

Feature ID	Approx. MP	Type	Latitude	Longitude	Crossing Method	15-ft. Easement Impacts	30-ft. Easement Impacts	Temporary Impacts	Total Impacts	Length Crossed by Pipeline Centerline (ft)	Attachment 3 Page Number
W1117 PEM	0.00	PEM			Open Cut	0.000	0.000	0.023	0.023	0	1
W2032 PFO	0.26	PFO			Open Cut	0.000	0.000	0.040	0.040	0	2
W2033 PFO	0.31	PFO			Open Cut	0.030	0.031	0.102	0.164	88	2
W2034 PFO	0.41	PFO			Open Cut	0.026	0.022	0.065	0.113	80	2
W2078 PFO	0.53	PFO			Open Cut	0.011	0.011	0.069	0.091	33	2
W2039 PFO	0.95	PFO			Open Cut	0.070	0.080	0.256	0.406	186	3
W2040 PFO	1.17	PFO			Open Cut	0.000	0.000	0.021	0.021	0	3
W2144 PFO	1.72	PFO			Open Cut	0.000	0.001	0.033	0.034	0	5
W2070 PSS	2.34	PSS			Open Cut	0.016	0.016	0.054	0.086	44	6
W2071 PSS	2.49	PSS			Open Cut	0.006	0.006	0.025	0.036	16	6
W2129 PFO	3.95	PFO			Open Cut	0.000	0.000	0.018	0.018	0	9
W2127 PFO	4.05	PFO			Open Cut	0.000	0.000	0.000	0.000	0	10
W2126 PFO	4.14	PFO			Open Cut	0.085	0.105	0.038	0.228	299	10
W2124 PFO	4.14	PFO			Open Cut	0.000	0.000	0.039	0.039	0	10
W2125 PFO	4.27	PFO			Open Cut	0.097	0.058	0.087	0.242	359	10
W2121 PEM	4.34	PEM			Open Cut	0.002	0.022	0.073	0.096	0	10
W2101 PFO	4.62	PFO			Open Cut	0.082	0.071	0.099	0.251	139	11
W2117 PFO	4.78	PFO			Open Cut	0.089	0.061	0.072	0.223	254	11
W2116 PFO	4.81	PFO			Open Cut	0.000	0.000	0.019	0.019	0	12
W1106 PSS	4.84	PSS			Open Cut	0.004	0.019	0.012	0.036	0	12
W2115 PFO	4.90	PFO			Open Cut	0.000	0.009	0.026	0.036	0	12
W2114 PFO	5.03	PFO			Open Cut	0.081	0.040	0.050	0.171	266	12
W2114 PEM	5.06	PEM			Open Cut	0.013	0.020	0.019	0.052	17	12
W2113 PFO	5.17	PFO			Open Cut	0.029	0.021	0.007	0.056	89	12
W2111 PFO	5.28	PFO			Open Cut	0.095	0.082	0.068	0.245	323	13
W2112 PEM	5.28	PEM			Open Cut	0.000	0.000	0.001	0.001	0	13
W2110 PFO	5.46	PFO			Open Cut	0.000	0.009	0.017	0.026	0	13
W1105 PFO	5.51	PFO			Open Cut	0.000	0.000	0.000	0.000	0	13
W2109 PFO	5.56	PFO			Open Cut	0.076	0.079	0.095	0.250	203	13
W2108 PFO	5.60	PFO			Open Cut	0.000	0.000	0.006	0.006	0	13
W2107 PFO	5.75	PFO			Open Cut	0.127	0.154	0.381	0.662	253	13
W2106 PEM	5.86	PEM			Open Cut	0.000	0.005	0.025	0.031	0	14
W2133 PFO	6.41	PFO			Open Cut	0.037	0.032	0.020	0.089	132	15
W2134 PFO	6.41	PFO			Open Cut	0.000	0.000	0.107	0.107	0	15
W2136 PEM	6.53	PEM			Open Cut	0.024	0.030	0.079	0.132	73	16
W2135 PFO	6.61	PFO			Open Cut	0.000	0.000	0.057	0.057	0	15
W2136 PSS	6.70	PSS			Open Cut	0.014	0.024	0.073	0.110	0	16
W2136 PFO	6.71	PFO			Open Cut	0.413	0.360	0.866	1.639	1,180	15
W2135 PSS	6.74	PSS			Open Cut	0.000	0.000	0.162	0.162	0	16

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 Lowman Pipeline Project
 NextEra Energy Pipeline (Lowman), Inc.

Feature ID	Approx. MP	Type	Latitude	Longitude	Crossing Method	15-ft. Easement Impacts	30-ft. Easement Impacts	Temporary Impacts	Total Impacts	Length Crossed by Pipeline Centerline (ft)	Attachment 3 Page Number
W1100 PEM	6.99	PEM			Open Cut	0.055	0.000	0.003	0.058	0	17
W1101 PEM	7.01	PEM			Open Cut	0.018	0.007	0.000	0.025	49	17
W1095 PFO	7.87	PFO			Open Cut	0.000	0.000	0.007	0.007	0	19
W1098 PFO	7.98	PFO			Open Cut	0.087	0.176	0.568	0.832	0	19
W1094 PFO	8.09	PFO			Open Cut	0.000	0.000	0.000	0.000	0	19
W1093 PEM	8.15	PEM			Open Cut	0.000	0.000	0.047	0.047	0	19
W1082 PEM	8.26	PEM			Open Cut	0.000	0.007	0.016	0.023	0	20
W1083 PEM	8.34	PEM			Open Cut	0.003	0.008	0.002	0.013	0	20
W1084 PEM	8.43	PEM			Open Cut	0.001	0.026	0.038	0.064	0	20
W1110 PSS	8.51	PSS			Open Cut	0.004	0.012	0.053	0.069	0	20
W1111 PEM	8.61	PEM			Open Cut	0.083	0.081	0.650	0.814	188	20
W1112 PFO	8.71	PFO			Open Cut	0.000	0.002	0.060	0.062	0	21
W1086 PEM	8.75	PEM			Open Cut	0.050	0.012	0.000	0.063	105	21
W1085 PEM	8.76	PEM			Open Cut	0.000	0.000	0.002	0.002	0	21
W1089 PFO	8.95	PFO			Open Cut	0.000	0.000	0.020	0.020	0	21
W1092 PEM	9.09	PEM			Open Cut	0.182	0.074	0.035	0.291	726	21
W1090 PEM	9.11	PEM			Open Cut	0.000	0.000	0.082	0.082	0	21
W2141 PFO	9.29	PFO			Open Cut	0.073	0.074	0.470	0.618	202	22
W2141 PEM	9.35	PEM			Open Cut	0.037	0.050	0.097	0.184	95	22
W2143 PSS	9.41	PSS			Open Cut	0.121	0.103	0.050	0.274	399	22
W2143 PEM	9.45	PEM			Open Cut	0.094	0.079	0.052	0.224	304	22
W2142 PEM	9.54	PEM			Open Cut	0.001	0.002	0.012	0.014	0	22
W2140 PFO	9.62	PFO			Open Cut	0.071	0.067	0.179	0.317	221	23
W2146 PEM	9.90	PEM			Open Cut	0.178	0.008	0.027	0.214	24	23
W2137 PFO	9.92	PFO			Open Cut	0.008	0.009	0.039	0.056	23	23
W2139 PFO	10.39	PFO			Open Cut	0.021	0.021	0.077	0.119	60	24
W2095 PFO	10.71	PFO			Open Cut	0.011	0.007	0.001	0.019	31	25
W2092 PFO	10.87	PFO			Open Cut	0.005	0.005	0.017	0.027	14	25
W2086 PFO	10.99	PFO			Open Cut	0.015	0.017	0.050	0.083	43	26
W2085 PFO	11.13	PFO			Open Cut	0.040	0.038	0.105	0.183	111	26
W2084 PSS	11.18	PSS			Open Cut	0.003	0.002	0.012	0.017	7	26
W2084 PEM	11.24	PEM			Open Cut	0.017	0.018	0.077	0.112	49	26
W2084 PFO	11.24	PFO			Open Cut	0.089	0.084	0.238	0.412	262	26
W2083 PEM	11.51	PEM			Open Cut	0.012	0.009	0.012	0.033	40	27
W2082 PSS	11.56	PSS			Open Cut	0.000	0.000	0.009	0.009	0	27
W1051 PFO	12.52	PFO			Open Cut	0.013	0.004	0.046	0.063	42	29
W1050 PSS	13.04	PSS			Open Cut	0.006	0.015	0.131	0.152	11	30
W1050 PFO	13.08	PFO			Open Cut	0.035	0.034	0.101	0.170	101	31
W1049 PFO	13.22	PFO			Open Cut	0.023	0.022	0.062	0.106	66	31

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 NextEra Energy Pipeline (Lowman), Inc.

W1049 PSS	13.23	PSS	Open Cut	0.000	0.000	0.001	0.001	0.001	0	31
W1048 PSS	13.67	PSS	Open Cut	0.007	0.007	0.018	0.018	0.033	21	32
W1065 PSS	13.86	PSS	Open Cut	0.025	0.025	0.071	0.071	0.121	73	32
W1066 PEM	14.11	PEM	Open Cut	0.032	0.032	0.070	0.070	0.134	92	33
W1053 PSS	14.17	PSS	Open Cut	0.004	0.004	0.011	0.011	0.019	11	33
W1054 PEM	14.19	PEM	Open Cut	0.028	0.028	0.107	0.107	0.164	83	33
W1054 PSS	14.21	PSS	Open Cut	0.039	0.039	0.152	0.152	0.231	113	33
W1054 PFO	14.23	PFO	Open Cut	0.039	0.039	0.111	0.111	0.189	114	33
W1055 PEM	14.27	PEM	Open Cut	0.019	0.019	0.058	0.058	0.096	56	33
W1056 PFO	14.44	PFO	Open Cut	0.048	0.049	0.148	0.148	0.245	140	33
W1056 PEM	14.47	PEM	Open Cut	0.046	0.039	0.098	0.098	0.183	135	33
W1056 PSS	14.49	PSS	Open Cut	0.029	0.030	0.100	0.100	0.159	84	33
W1059 PFO	14.67	PFO	Open Cut	0.009	0.008	0.029	0.029	0.045	25	34
W1058 PFO	14.78	PFO	Open Cut	0.015	0.015	0.054	0.054	0.083	43	34
W1057 PSS	14.79	PSS	Open Cut	0.007	0.007	0.024	0.024	0.037	20	34
W1064 PFO	14.86	PFO	Open Cut	0.005	0.009	0.032	0.032	0.046	0	34
W1064 PEM	14.89	PEM	Open Cut	0.015	0.015	0.049	0.049	0.079	45	34
W1061 PFO	15.37	PFO	Open Cut	0.005	0.008	0.038	0.038	0.051	0	35
W2081 PFO	15.57	PFO	Open Cut	0.011	0.011	0.031	0.031	0.053	32	36
W2080 PFO	15.73	PFO	Open Cut	0.000	0.000	0.016	0.016	0.016	0	36
W2079 PFO	15.85	PFO	Open Cut	0.016	0.017	0.045	0.045	0.078	46	37
W2077 PFO	15.94	PFO	Open Cut	0.000	0.000	0.000	0.000	0.000	0	37
W2076 PFO	16.06	PFO	Open Cut	0.011	0.013	0.041	0.041	0.065	31	37
W2076 PEM	16.15	PEM	Open Cut	0.011	0.011	0.043	0.043	0.065	32	37
W2074 PFO	16.28	PFO	Open Cut	0.399	0.121	0.352	0.352	0.872	378	38
W1079 PEM	16.33	PEM	Open Cut	0.005	0.005	0.002	0.002	0.012	12	38
W2027 PSS	16.39	PSS	Open Cut	0.109	0.032	0.116	0.116	0.257	95	38
W1078 PEM	16.45	PEM	Open Cut	0.023	0.000	0.008	0.008	0.031	0	38
W2025 PEM	16.90	PEM	Open Cut	0.864	0.148	0.633	0.633	1.646	428	39
W2066 PEM	17.04	PEM	Open Cut	0.021	0.022	0.082	0.082	0.126	62	39
W2065 PFO	17.17	PFO	Open Cut	0.070	0.071	0.212	0.212	0.353	203	40
W2065 PEM	17.23	PEM	Open Cut	0.154	0.013	0.031	0.031	0.197	42	40
W2067 PEM	17.41	PEM	Open Cut	0.532	0.329	1.035	1.035	1.896	964	40
W2068 PEM	17.63	PEM	Open Cut	0.292	0.294	0.902	0.902	1.487	847	41
W2068 PSS	17.76	PSS	Open Cut	0.108	0.106	0.312	0.312	0.527	315	41
W1076 PSS	18.16	PSS	Open Cut	0.008	0.010	0.084	0.084	0.103	19	42
W1075 PEM	18.24	PEM	Open Cut	0.000	0.000	0.019	0.019	0.019	0	42
W2053 PFO	18.30	PFO	Open Cut	0.122	0.124	0.396	0.396	0.643	354	42
W2050 PFO	18.54	PFO	Open Cut	0.021	0.015	0.036	0.036	0.072	62	43

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Attachment 8a Wetlands Impacts Table
Lowman Pipeline Project
NextEra Energy Pipeline (Lowman), Inc.

Feature ID	Approx. MP	Type	Latitude	Longitude	Crossing Method	15-ft. Easement Impacts	30-ft. Easement Impacts	Temporary Impacts	Total Impacts	Length Crossed by Pipeline Centerline (ft)	Attachment 3 Page Number
W2051 PFO	18.55	PFO			Open Cut	0.000	0.000	0.003	0.003	0	43
W2054 PFO	18.76	PFO			Open Cut	0.047	0.035	0.113	0.196	102	43
W2054 PEM	18.82	PEM			Open Cut	0.309	0.187	0.616	1.113	528	43
W2056 PEM	18.99	PEM			Open Cut	0.008	0.009	0.044	0.060	22	44
W2103 PEM	19.10	PEM			Open Cut	0.011	0.011	0.109	0.131	31	44
W2104 PEM	19.16	PEM			Open Cut	0.000	0.000	0.100	0.100	0	44
W2058 PFO	19.43	PFO			Open Cut	0.105	0.101	0.345	0.551	306	45
W2061 PFO	19.58	PFO			Open Cut	0.006	0.004	0.009	0.020	21	45
W2062 PFO	19.82	PFO			Open Cut	0.018	0.019	0.044	0.081	52	46
W1045 PEM	20.39	PEM			Open Cut	0.000	0.000	0.000	0.000	0	47
W1044 PEM	20.41	PEM			Open Cut	0.003	0.003	0.012	0.018	8	47
W1047 PEM	20.43	PEM			Open Cut	0.000	0.000	0.005	0.005	0	47
W1043 PFO	20.63	PFO			Open Cut	0.025	0.023	0.075	0.124	75	48
W2049 PFO	20.99	PFO			Open Cut	0.123	0.121	0.371	0.615	359	48
W2048 PEM	21.07	PEM			Open Cut	0.001	0.004	0.028	0.033	0	49
W2048 PFO	21.28	PFO			Open Cut	0.031	0.033	0.104	0.168	89	49
W1031 PFO	21.87	PFO			Open Cut	0.000	0.000	0.014	0.014	0	50
W1031 PEM	21.98	PEM			Open Cut	0.239	0.242	1.442	1.923	695	51
W1037 PEM	23.14	PEM			Open Cut	0.001	0.000	0.017	0.018	0	53
W2041 PEM	25.30	PEM			Open Cut	0.000	0.000	0.004	0.004	0	58
W2047 PEM	25.44	PEM			Open Cut	0.000	0.000	0.003	0.003	0	58
W2046 PFO	25.48	PFO			Open Cut	0.028	0.033	0.101	0.162	70	59
W2045 PFO	25.67	PFO			Open Cut	0.021	0.017	0.020	0.058	68	59
W2044 PFO	25.84	PFO			Open Cut	0.018	0.023	0.048	0.090	51	59
W2043 PFO	25.92	PFO			Open Cut	0.013	0.012	0.047	0.072	38	60
W2042 PFO	27.44	PFO			Open Cut	0.000	0.000	0.040	0.040	0	63
W2038 PFO	27.57	PFO			Open Cut	0.190	0.191	0.559	0.940	551	63
W2037 PEM	29.06	PEM			Open Cut	0.000	0.000	0.007	0.007	0	66
W2036 PFO	29.19	PFO			Open Cut	0.005	0.006	0.015	0.026	13	67
W2035 PFO	29.30	PFO			Open Cut	0.014	0.013	0.030	0.057	41	67
W1029 PFO	30.91	PFO			Open Cut	0.044	0.041	0.095	0.181	127	71
W1028 PEM	30.94	PEM			Open Cut	0.006	0.004	0.009	0.019	19	71
W1026 PSS	32.06	PSS			Open Cut	0.000	0.000	0.000	0.000	0	73
W1123 PFO	32.12	PFO			Open Cut	0.008	0.013	0.029	0.050	0	74
W1122 PEM	32.25	PEM			Open Cut	0.007	0.014	0.081	0.102	19	74
W1121 PFO	32.26	PFO			Open Cut	0.009	0.008	0.021	0.038	33	74
W1120 PFO	32.29	PFO			Open Cut	0.017	0.014	0.027	0.058	51	74
W2154 PFO	32.41	PFO			Open Cut	0.031	0.000	0.010	0.041	0	74
W1017 PFO	32.50	PFO			Open Cut	0.027	0.026	0.069	0.123	79	74

Attachment 8a Wetlands Impacts Table
 Lowman Pipeline Project
 NextEra Energy Pipeline (Lowman), Inc.

W1018 PFO	32.57	PFO	Open Cut	0.038	0.037	0.084	0.159	111	75
W1019 PEM	32.59	PEM	Open Cut	0.000	0.000	0.000	0.000	0	75
W1020 PEM	32.67	PEM	Open Cut	0.004	0.004	0.011	0.018	10	75
W1022 PFO	32.99	PFO	Open Cut	0.210	0.191	0.655	1.055	623	75
W1025 PFO	33.46	PFO	Open Cut	0.002	0.004	0.018	0.023	0	76
W2031 PFO	33.75	PFO	Open Cut	0.030	0.031	0.093	0.154	88	77
W2090 PFO	34.25	PFO	Open Cut	0.018	0.018	0.043	0.079	53	78
W2030 PEM	34.58	PEM	Open Cut	0.022	0.019	0.047	0.088	69	79
W2017 PFO	34.95	PFO	Open Cut	0.021	0.021	0.070	0.112	61	80
W2018 PFO	35.46	PFO	Open Cut	0.059	0.059	0.176	0.294	171	81
W2019 PSS	35.70	PSS	Open Cut	0.097	0.097	0.052	0.246	283	82
W2021 PEM	36.37	PEM	Open Cut	0.001	0.001	0.000	0.002	0	83
W1015 PFO	36.44	PFO	Open Cut	0.000	0.000	0.006	0.006	0	83
W1014 PFO	36.83	PFO	Open Cut	0.115	0.114	0.313	0.543	333	84
W1011 PFO	37.99	PFO	Open Cut	0.025	0.026	0.076	0.127	74	87
W1010 PFO	38.48	PFO	Open Cut	0.077	0.077	0.230	0.384	223	88
W1009 PEM	39.37	PEM	Open Cut	0.008	0.007	0.018	0.034	23	90
W1009 PFO	39.38	PFO	Open Cut	0.000	0.000	0.021	0.021	0	90
W2014 PEM	39.46	PEM	Open Cut	0.000	0.000	0.001	0.001	0	90
W2015 PEM	39.50	PEM	Open Cut	0.037	0.033	0.071	0.141	112	90
W2016 PFO	40.09	PFO	Open Cut	0.007	0.008	0.028	0.043	21	92
W1016 PFO	40.23	PFO	Open Cut	0.019	0.018	0.040	0.077	55	92
W2024 PFO	41.41	PFO	Open Cut	0.000	0.000	0.026	0.026	0	95
W2023 PFO	41.54	PFO	Open Cut	0.027	0.031	0.068	0.126	76	95
W2028 PSS	42.14	PSS	Open Cut	0.002	0.005	0.016	0.022	2	96
W2029 PEM	42.15	PEM	Open Cut	0.000	0.000	0.012	0.012	0	96
W1012 PFO	43.06	PFO	Open Cut	0.038	0.035	0.097	0.170	111	99
W1013 PFO	43.29	PFO	Open Cut	0.000	0.000	0.010	0.010	0	99
W1008 PSS	43.58	PSS	Open Cut	0.021	0.023	0.099	0.143	61	100
W1008 PFO	43.66	PFO	Open Cut	0.041	0.036	0.095	0.173	124	100
W2105 PSS	45.39	PSS	Open Cut	0.000	0.000	0.005	0.005	0	104
W2012 PEM	47.07	PEM	Open Cut	0.011	0.011	0.030	0.052	33	108
W2150 PEM	48.03	PEM	Open Cut	0.000	0.000	0.009	0.009	0	110
W2009 PFO	48.05	PFO	Open Cut	0.022	0.021	0.065	0.108	66	110
W2010 PEM	48.57	PEM	Open Cut	0.000	0.002	0.037	0.039	0	111
W2011 PFO	48.79	PFO	Open Cut	0.020	0.015	0.037	0.072	59	112
W2011 PEM	48.79	PEM	Open Cut	0.000	0.004	0.026	0.030	0	112
W1007 PFO	49.09	PFO	Open Cut	0.028	0.031	0.109	0.169	79	112
W1007 PEM	49.10	PEM	Open Cut	0.000	0.000	0.013	0.013	0	112

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Attachment 8a Wetlands Impacts Table
 Lowman Pipeline Project
 NextEra Energy Pipeline (Lowman), Inc.

W1006 PEM	49.57	PEM		Open Cut	0.010	0.003	0.011	0.024	3	114
W1005 PSS	49.66	PSS		Open Cut	0.000	0.000	0.037	0.037	0	114
W1005 PFO	49.68	PFO		Open Cut	0.023	0.030	0.245	0.297	49	114
W1005 PEM	49.70	PEM		Open Cut	0.000	0.000	0.009	0.009	0	114
W1004 PEM	49.82	PEM		Open Cut	0.052	0.051	0.141	0.244	152	114
W1071 PSS	49.94	PSS		Open Cut	0.000	0.000	0.000	0.000	0	114
W1073 PEM	50.88	PEM		Open Cut	0.002	0.007	0.094	0.104	0	117
W1074 PFO	50.93	PFO		Open Cut	0.000	0.000	0.052	0.052	0	117
W2002 PEM	51.12	PEM		Open Cut	0.000	0.000	0.031	0.031	0	117
W2003 PEM	51.29	PEM		Open Cut	0.000	0.000	0.041	0.041	0	118
W2004 PSS	51.37	PSS		Open Cut	0.000	0.006	0.115	0.121	0	118
W2004 PFO	51.37	PFO		Open Cut	0.080	0.074	0.122	0.275	236	118
W2001 PEM	51.73	PEM		Open Cut	0.003	0.003	0.010	0.015	7	119
W1001 PSS	51.95	PSS		Open Cut	0.000	0.000	0.041	0.041	0	119
W1001 PEM	52.01	PEM		Open Cut	0.000	0.006	0.168	0.173	0	119
W1001 PFO	52.01	PFO		Open Cut	0.303	0.169	0.444	0.916	512	119
W1113 PSS	52.03	PSS		Open Cut	0.000	0.000	0.001	0.001	0	119
W1002 PEM	52.07	PEM		Open Cut	0.034	0.013	0.176	0.222	25	119
W1002 PFO	52.10	PFO		Open Cut	0.034	0.014	0.028	0.077	58	119
W1003 PFO	52.17	PFO		Open Cut	0.099	0.088	0.213	0.400	0	119
W1003 PEM	52.23	PEM	Open Cut	0.000	0.000	0.038	0.038	0	120	
W2007 PFO	52.81	PFO	Open Cut	0.136	0.037	0.097	0.270	108	121	
W2007 PEM	52.82	PEM	Open Cut	0.000	0.000	0.015	0.015	0	121	
W2022 PEM	53.07	PEM	Open Cut	0.000	0.000	0.032	0.032	0	122	
W2022 PFO	53.08	PFO	Open Cut	0.045	0.045	0.104	0.193	131	122	
W2006 PSS	53.17	PSS	Open Cut	0.000	0.000	0.029	0.029	0	122	
W1129 PEM	PY-01	PEM	Pipe Yards Open Cut	0.000	0.000	0.081	0.081	N/A	N/A	167
W2145 PFO	AR-01.4	PFO		Access Roads Open Cut	0.037	0.000	0.000	0.037	N/A	N/A
W1118 PEM	AR-03.6	PEM	0.038		0.000	0.000	0.038	N/A	N/A	9
W1119 PFO	AR-03.6	PFO	0.005		0.000	0.000	0.005	N/A	N/A	9
W1132 PFO	AR-16.2	PFO	0.012		0.000	0.000	0.012	N/A	N/A	37
W1133 PSS	AR-16.2	PSS	0.001		0.000	0.000	0.001	N/A	N/A	37
W2075 PSS	AR-16.2-EX	PSS	0.014		0.000	0.000	0.014	N/A	N/A	38
W2027 PFO	AR-16.4	PFO	0.374		0.101	0.032	0.508	N/A	N/A	39
W2099 PEM	AR-17.3	PEM	0.002		0.000	0.000	0.002	N/A	N/A	136

Attachment 8a Wetlands Impacts Table
 Lowman Pipeline Project
 NextEra Energy Pipeline (Lowman), Inc.

W2100 PEM	AR-17.3	PEM	(b)(7)f	Open Cut	0.014	0.000	0.014	N/A	136
W2097 PEM	AR-18.5	PEM	(b)(7)f	Open Cut	0.036	0.000	0.036	N/A	137
W2097 PFO	AR-18.5	PFO	(b)(7)f	Open Cut	0.018	0.000	0.018	N/A	43
W2151 PEM	AR-31.7	PEM	(b)(7)f	Open Cut	0.042	0.000	0.042	N/A	74
W2151 PFO	AR-31.7	PFO	(b)(7)f	Open Cut	0.016	0.000	0.016	N/A	74
W2152 PEM	AR-31.7	PEM	(b)(7)f	Open Cut	0.016	0.000	0.016	N/A	74
W1126 PEM	AR-32.5	PEM	(b)(7)f	Open Cut	0.012	0.000	0.012	N/A	74
W1127 PEM	AR-32.5	PEM	(b)(7)f	Open Cut	0.001	0.000	0.001	N/A	74
W1128 PFO	AR-32.8	PFO	(b)(7)f	Open Cut	0.402	0.000	0.402	N/A	75
W1021 PSS	AR-33.1	PSS	(b)(7)f	Open Cut	0.042	0.000	0.042	N/A	76
W2147 PFO	AR-35.1	PFO	(b)(7)f	Open Cut	0.004	0.000	0.004	N/A	80
W2019 PFO	AR-35.1-EX	PFO	(b)(7)f	Open Cut	0.193	0.000	0.193	N/A	82
W2165 PEM	AR-35.1-EX	PEM	(b)(7)f	Open Cut	0.025	0.000	0.025	N/A	81
W2162 PEM	AR-36.5	PEM	(b)(7)f	Open Cut	0.012	0.000	0.012	N/A	141
W2163 PFO	AR-36.5	PFO	(b)(7)f	Open Cut	0.004	0.000	0.004	N/A	140
W2164 PFO	AR-36.5	PFO	(b)(7)f	Open Cut	0.009	0.000	0.009	N/A	140
W2165 PFO	AR-36.5	PFO	(b)(7)f	Open Cut	0.001	0.000	0.001	N/A	140
W2160 PFO	AR-36.5-EX	PFO	(b)(7)f	Open Cut	0.022	0.000	0.022	N/A	139
W2161 PFO	AR-36.5-EX	PFO	(b)(7)f	Open Cut	0.056	0.000	0.056	N/A	139
W2087 PFO	AR-39.5	PFO	(b)(7)f	Open Cut	0.135	0.000	0.135	N/A	90
W2088 PEM	AR-39.5	PEM	(b)(7)f	Open Cut	0.046	0.000	0.046	N/A	145
W2089 PFO	AR-39.5	PFO	(b)(7)f	Open Cut	0.002	0.000	0.002	N/A	144
W1115 PEM	AR-40.2	PEM	(b)(7)f	Open Cut	0.023	0.000	0.023	N/A	92
W1069 PFO	AR-40.6	PFO	(b)(7)f	Open Cut	0.345	0.000	0.345	N/A	94
W2091 PEM	AR-41.5	PEM	(b)(7)f	Open Cut	0.003	0.000	0.003	N/A	151
W1068 PEM	AR-45.6	PEM	(b)(7)f	Open Cut	0.000	0.000	0.000	N/A	154
W1114 PEM	AR-51.1	PEM	(b)(7)f	Open Cut	0.014	0.000	0.014	N/A	119
W1003 PFO	AR-52.2	PFO	(b)(7)f	Open Cut	0.761	0.000	0.761	0	119

Palustrine Emergent Total	14.02
Palustrine Shrub-Scrub Total	3.14
Palustrine Forested Total	23.78
Grand Total	40.95

Attachment 8b Waterbodies Impacts Table
 Lowman Pipeline Project
 NextEra Energy Pipeline (Lowman), Inc.

S1289	0.00	Ephemeral	(b)(7)f	Unnamed Trib. to Long Creek	Open Cut	60	2.5	0.003	1
S2047	0.31	Perennial	(b)(7)f	Unnamed Trib. to Long Creek	Open Cut	105	3.5	0.008	2
S2049	0.36	Intermittent	(b)(7)f	Unnamed Trib. to Long Creek	Open Cut	92	2	0.004	2
S2050	0.41	Ephemeral	(b)(7)f	Unnamed Trib. to Long Creek	Open Cut	142	1.5	0.005	2
S2119	0.52	Ephemeral	(b)(7)f	Unnamed Trib. to Long Creek	Open Cut	40	1	0.001	2
S2057	0.85	Intermittent	(b)(7)f	Unnamed Trib. to Long Creek	Open Cut	134	2	0.006	3
S2056	0.98	Perennial	(b)(7)f	Unnamed Trib. to Long Creek	Open Cut	95	4	0.009	3
S2058	1.61	Perennial	(b)(7)f	Unnamed Trib. to Long Creek	Open Cut	94	4	0.009	4
S2059	1.72	Ephemeral	(b)(7)f	Unnamed Trib. to Long Creek	Open Cut	99	2	0.005	5
S2111	2.35	Intermittent	(b)(7)f	Unnamed Trib. to Church Branch	Open Cut	96	2	0.004	6
S2112	2.49	Intermittent	(b)(7)f	Church Branch	Open Cut	77	2	0.004	6
S2190	3.99	Intermittent	(b)(7)f	Unnamed Trib. to Bogueloosa Creek	Open Cut	332	2.5	0.019	9
S2189	4.05	Perennial	(b)(7)f	Unnamed Trib. to Bogueloosa Creek	Open Cut	312	2.5	0.018	10
S1287	4.10	Ephemeral	(b)(7)f	Unnamed Trib. to Bogueloosa Creek	Open Cut	42	2	0.002	10
P1008	4.18	Pond	(b)(7)f	Unnamed Pond	Open Cut	N/A		0.265	10
S2188	4.21	Intermittent	(b)(7)f	Unnamed Trib. to Bogueloosa Creek	Open Cut	137	1.5	0.005	10
S2187	4.23	Intermittent	(b)(7)f	Unnamed Trib. to Bogueloosa Creek	Open Cut	94	1.5	0.003	10
S2184	4.45	Perennial	(b)(7)f	Unnamed Trib. to Bogueloosa Creek	Open Cut	856	2.5	0.049	11
P2101	4.58	Pond	(b)(7)f	Unnamed Pond	Open Cut	N/A		0.403	11
S2183	4.58	Perennial	(b)(7)f	Unnamed Trib. to Bogueloosa Creek	Open Cut	32	3	0.002	11
S2182	4.85	Intermittent	(b)(7)f	Unnamed Trib. to Church Branch	Open Cut	171	1.5	0.006	12
S2181	4.92	Perennial	(b)(7)f	Church Branch	Open Cut	109	7	0.117	12
S2180	4.93	Ephemeral	(b)(7)f	Unnamed Trib. to Church Branch	Open Cut	113	2	0.005	12
S2179	5.00	Perennial	(b)(7)f	Unnamed Trib. to Church Branch	Open Cut	101	1.5	0.003	12
S2178	5.11	Perennial	(b)(7)f	Unnamed Trib. to Church Branch	Open Cut	90	2.5	0.005	12
S2177	5.43	Perennial	(b)(7)f	Unnamed Trib. to Bogueloosa Creek	Open Cut	371	5	0.043	13
S1285	5.43	Intermittent	(b)(7)f	Unnamed Trib. to Bogueloosa Creek	Open Cut	31	1.5	0.001	13
S2175	5.63	Perennial	(b)(7)f	Unnamed Trib. to Bogueloosa Creek	Open Cut	221	2.5	0.013	13
S2173	5.77	Perennial	(b)(7)f	Unnamed Trib. to Bogueloosa Creek	Open Cut	85	5	0.010	14
S2174	5.78	Intermittent	(b)(7)f	Unnamed Trib. to Bogueloosa Creek	Open Cut	70	1.5	0.002	14
S2172	5.87	Intermittent	(b)(7)f	Unnamed Trib. to Bogueloosa Creek	Open Cut	58	2	0.003	14
S2196	6.43	Perennial	(b)(7)f	Unnamed Trib. to Bogueloosa Creek	Open Cut	101	5	0.012	15
S1280	6.99	Ephemeral	(b)(7)f	Unnamed Trib. to Bogueloosa Creek	Open Cut	13	3	0.001	17
S1279	7.48	Perennial	(b)(7)f	Unnamed Trib. to Bogueloosa Creek	Open Cut	70	12	0.963	18
S1284	7.53	Intermittent	(b)(7)f	Unnamed Trib. to Bogueloosa Creek	Open Cut	49	3	0.003	18
S1274B	7.67	Perennial	(b)(7)f	Unnamed Trib. to Bogueloosa Creek	Open Cut	70	10	0.032	19
S1276	7.90	Ephemeral	(b)(7)f	Unnamed Trib. to Bogueloosa Creek	Open Cut	163	2.5	0.009	19
S1278	8.00	Intermittent	(b)(7)f	Unnamed Trib. to Bogueloosa Creek	Open Cut	186	15	0.117	19
S1273	8.02	Perennial	(b)(7)f	Unnamed Trib. to Bogueloosa Creek	Open Cut	84	3	0.006	19
S1269	8.27	Ephemeral	(b)(7)f	Unnamed Trib. to Bogueloosa Creek	Open Cut	61	1.5	0.002	20
S1288	8.66	Perennial	(b)(7)f	Unnamed Trib. to Bogueloosa Creek	Open Cut	117	4	0.011	20
S1270	8.92	Perennial	(b)(7)f	Buck Creek	Open Cut	140	20	0.278	21

Attachment 8b Waterbodies Impacts Table
 Lowman Pipeline Project
 NextEra Energy Pipeline (Lowman), Inc.

S1271	9.20	Perennial	Unnamed Trib. to Bogueloosa Creek	Open Cut	76	5	0.009	22
S2214	9.57	Perennial	Unnamed Trib. to Rock Branch	Open Cut	260	2	0.012	22
S2213	9.63	Intermittent	Unnamed Trib. to Rock Branch	Open Cut	14	2	0.001	23
S2211	9.65	Ephemeral	Unnamed Trib. to Rock Branch	Open Cut	110	2	0.005	23
S2210	9.74	Intermittent	Unnamed Trib. to Rock Branch	Open Cut	92	2	0.004	23
S1312	9.86	Intermittent	Unnamed Trib. to Rock Branch	Open Cut	119	2	0.005	23
S2200	9.96	Perennial	Unnamed Trib. to Rock Branch	Open Cut	93	3	0.006	23
S2201	9.98	Perennial	Rock Branch	Open Cut	123	10	0.149	23
S2208	10.39	Perennial	Unnamed Trib. to Rock Branch	Open Cut	90	1.5	0.003	24
S2209	10.39	Intermittent	Unnamed Trib. to Rock Branch	Open Cut	15	1.5	0.001	24
S2145	10.56	Ephemeral	Unnamed Trib. to Bogueloosa Creek	Open Cut	10	1	0.000	25
S2144	10.70	Ephemeral	Unnamed Trib. to Bogueloosa Creek	Open Cut	171	1	0.004	25
S2143	10.71	Intermittent	Unnamed Trib. to Bogueloosa Creek	Open Cut	105	2	0.005	25
S2140	10.72	Perennial	Unnamed Trib. to Bogueloosa Creek	Open Cut	89	2.5	0.005	25
S2139	10.87	Intermittent	Unnamed Trib. to Bogueloosa Creek	Open Cut	77	2	0.004	25
S2138	10.90	Intermittent	Unnamed Trib. to Bogueloosa Creek	Open Cut	143	2	0.007	25
S2132	10.99	Intermittent	Unnamed Trib. to Bogueloosa Creek	Open Cut	53	1.5	0.002	26
S2131	10.99	Intermittent	Unnamed Trib. to Bogueloosa Creek	Open Cut	84	3	0.006	26
S2130	11.12	Intermittent	Unnamed Trib. to Bogueloosa Creek	Open Cut	86	1.5	0.003	26
S2128	11.23	Intermittent	Unnamed Trib. to Bogueloosa Creek	Open Cut	45	2.5	0.003	26
S2127	11.26	Intermittent	Unnamed Trib. to Bogueloosa Creek	Open Cut	36	2.5	0.002	26
S2125	11.56	Ephemeral	Unnamed Trib. to Bogueloosa Creek	Open Cut	47	2.5	0.003	27
S2124	11.56	Ephemeral	Unnamed Trib. to Bogueloosa Creek	Open Cut	89	2.5	0.005	27
S1114	12.81	Ephemeral	Unnamed Trib. to Bogueloosa Creek	Open Cut	93	1	0.002	30
S1112	13.03	Intermittent	Unnamed Trib. to Mill Branch	Open Cut	223	3.5	0.018	30
S1111	13.22	Perennial	Unnamed Trib. to Mill Branch	Open Cut	92	3	0.006	31
S1110	13.39	Intermittent	Unnamed Trib. to Mill Branch	Open Cut	92	3	0.006	31
S1109	13.67	Ephemeral	Unnamed Trib. to Golden Horn Branch	Open Cut	34	2	0.002	32
S1108	13.67	Ephemeral	Unnamed Trib. to Golden Horn Branch	Open Cut	90	4	0.008	32
S1116	14.22	Perennial	Golden Horn Branch	Open Cut	98	5.5	0.067	33
S1118	14.41	Intermittent	Unnamed Trib. to Golden Horn Branch	Open Cut	105	2	0.005	33
S1117	14.46	Intermittent	Unnamed Trib. to Golden Horn Branch	Open Cut	83	2	0.004	33
S1124	14.46	Intermittent	Unnamed Trib. to Golden Horn Branch	Open Cut	25	2.5	0.001	33
S1127	14.49	Intermittent	Unnamed Trib. to Golden Horn Branch	Open Cut	87	1.5	0.003	33
S1121	14.66	Ephemeral	Unnamed Trib. to Golden Horn Branch	Open Cut	26	0.25	0.000	34
S1120	14.66	Perennial	Unnamed Trib. to Golden Horn Branch	Open Cut	83	2	0.004	34
S1119	14.78	Intermittent	Unnamed Trib. to Golden Horn Branch	Open Cut	88	1.5	0.003	34
S1143	14.85	Perennial	Golden Horn Branch	Open Cut	166	6	0.276	34
S1146	14.88	Intermittent	Unnamed Trib. to Golden Horn Branch	Open Cut	19	2.5	0.001	34
S1145	14.90	Intermittent	Unnamed Trib. to Golden Horn Branch	Open Cut	92	4	0.008	34
S1138	14.95	Intermittent	Unnamed Trib. to Golden Horn Branch	Open Cut	105	2	0.005	35
S1140	14.96	Ephemeral	Unnamed Trib. to Golden Horn Branch	Open Cut	46	1	0.001	35

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Attachment 8b Waterbodies Impacts Table
 Lowman Pipeline Project
 NextEra Energy Pipeline (Lowman), Inc.

S1134	Perennial	15.08	Unnamed Trib. to Golden Horn Branch	Open Cut	113	3	0.008	35
S1135	Intermittent	15.11	Unnamed Trib. to Golden Horn Branch	Open Cut	93	2	0.004	35
S1132	Intermittent	15.19	Unnamed Trib. to Golden Horn Branch	Open Cut	111	3	0.008	35
S1131	Intermittent	15.29	Unnamed Trib. to Golden Horn Branch	Open Cut	62	1.5	0.002	35
S1130	Intermittent	15.30	Unnamed Trib. to Golden Horn Branch	Open Cut	93	3	0.006	35
S1129	Intermittent	15.38	Unnamed Trib. to Golden Horn Branch	Open Cut	121	2	0.006	35
S1128	Ephemeral	15.40	Unnamed Trib. to Golden Horn Branch	Open Cut	101	3.5	0.008	36
S2123	Intermittent	15.57	Unnamed Trib. to Golden Horn Branch	Open Cut	80	2.5	0.005	36
S2122	Intermittent	15.72	Unnamed Trib. to Golden Horn Branch	Open Cut	160	1.5	0.005	36
S2121	Intermittent	15.85	Unnamed Trib. to Golden Horn Branch	Open Cut	123	3	0.008	37
S2116	Perennial	16.29	Golden Horn Branch	Open Cut	272	8	0.295	38
S2108	Intermittent	17.64	Unnamed Trib. to Okatuppa Creek	Open Cut	145	5	0.017	41
S2110	Intermittent	17.65	Unnamed Trib. to Okatuppa Creek	Open Cut	76	3.5	0.006	41
S1266	Perennial	18.16	Unnamed Trib. to Souwilpa Creek	Open Cut	123	4.5	0.013	42
S2086	Perennial	18.29	Unnamed Trib. to Souwilpa Creek	Open Cut	121	4	0.011	42
S2084	Ephemeral	18.54	Unnamed Trib. to Souwilpa Creek	Open Cut	41	1.5	0.001	43
S2083	Perennial	18.55	Unnamed Trib. to Souwilpa Creek	Open Cut	119	6	0.016	43
S2087	Ephemeral	18.72	Unnamed Trib. to Souwilpa Creek	Open Cut	60	2	0.003	43
S2155	Perennial	18.92	Unnamed Trib. to Souwilpa Creek	Open Cut	101	2	0.005	44
S2158	Ephemeral	19.07	Unnamed Trib. to Souwilpa Creek	Open Cut	89	2	0.004	44
S2091	Perennial	19.17	Souwilpa Creek	Open Cut	30	62	1.516	44
S2092	Intermittent	19.42	Unnamed Trib. to Souwilpa Creek	Open Cut	3	1.5	0.000	45
S2093	Ephemeral	19.43	Unnamed Trib. to Souwilpa Creek	Open Cut	40	1	0.001	45
S2094	Ephemeral	19.46	Unnamed Trib. to Souwilpa Creek	Open Cut	99	1	0.002	45
S2096	Ephemeral	19.58	Unnamed Trib. to Souwilpa Creek	Open Cut	106	2.5	0.006	45
S2097	Ephemeral	19.58	Unnamed Trib. to Souwilpa Creek	Open Cut	39	2.5	0.002	45
S2095	Ephemeral	19.62	Unnamed Trib. to Souwilpa Creek	Open Cut	28	2.5	0.002	45
S2098	Intermittent	19.67	Unnamed Trib. to Souwilpa Creek	Open Cut	93	2.5	0.005	45
S2100	Perennial	19.82	Unnamed Trib. to Souwilpa Creek	Open Cut	214	4	0.020	46
S2106	Intermittent	20.06	Unnamed Trib. to McNish Branch	Open Cut	87	3	0.006	46
S2107	Intermittent	20.13	Unnamed Trib. to McNish Branch	Open Cut	161	2.5	0.009	46
S1106B	Intermittent	20.40	Unnamed Trib. to McNish Branch	Open Cut	155	3	0.011	47
S1106	Intermittent	20.44	Unnamed Trib. to McNish Branch	Open Cut	6	3	0.000	47
S1103	Perennial	20.64	Unnamed Trib. to McNish Branch	Open Cut	81	3.5	0.007	48
S2082B	Perennial	20.97	Unnamed Trib. to McNish Branch	Open Cut	80	5	0.009	48
S2082	Perennial	20.97	Unnamed Trib. to McNish Branch	Open Cut	77	5	0.009	48
S2081	Intermittent	21.01	Unnamed Trib. to McNish Branch	Open Cut	72	3	0.005	48
S2080	Ephemeral	21.04	Unnamed Trib. to McNish Branch	Open Cut	83	2	0.004	48
S2079	Intermittent	21.17	Unnamed Trib. to McNish Branch	Open Cut	79	2	0.004	49
S2077	Intermittent	21.35	Unnamed Trib. to McNish Branch	Open Cut	96	2.5	0.006	49
S1090	Intermittent	21.86	Unnamed Trib. to Black Creek	Open Cut	231	2.25	0.012	50
S1160	Intermittent	21.93	Unnamed Trib. to Black Creek	Open Cut	86	1	0.002	50

(b)(7)f

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S1068	22.66	Ephemeral	(b)(7)f	Open Cut	96	2.5	0.006	52
S1072	22.69	Ephemeral	(b)(7)f	Open Cut	52	1	0.001	52
S1069	22.70	Perennial	(b)(7)f	Open Cut	249	4	0.023	52
S1070	22.73	Ephemeral	(b)(7)f	Open Cut	48	1	0.001	52
S1073	22.81	Intermittent	(b)(7)f	Open Cut	104	2.5	0.006	53
S1074	22.86	Ephemeral	(b)(7)f	Open Cut	33	2.5	0.002	53
S1075	22.90	Intermittent	(b)(7)f	Open Cut	65	3	0.004	53
S1078	23.01	Ephemeral	(b)(7)f	Open Cut	122	1.5	0.004	53
S1079	23.03	Perennial	(b)(7)f	Open Cut	94	3	0.006	53
S1081	23.21	Intermittent	(b)(7)f	Open Cut	24	3	0.002	53
S1082	23.26	Perennial	(b)(7)f	Open Cut	96	3	0.007	54
S1085	23.65	Perennial	(b)(7)f	Open Cut	63	7	0.235	54
P1003	23.65	Pond	(b)(7)f	Open Cut	N/A		0.162	54
S1262	24.56	Intermittent	(b)(7)f	Open Cut	125	3	0.009	56
S1263	24.71	Perennial	(b)(7)f	Open Cut	130	7.5	0.105	57
S2063	25.29	Intermittent	(b)(7)f	Open Cut	132	2	0.006	58
S2064	25.33	Intermittent	(b)(7)f	Open Cut	74	2	0.003	58
S2060	25.34	Perennial	(b)(7)f	Open Cut	94	4	0.009	58
S2074	25.50	Ephemeral	(b)(7)f	Open Cut	92	1.5	0.003	59
S2073	25.65	Intermittent	(b)(7)f	Open Cut	223	2	0.010	59
S2072	25.68	Intermittent	(b)(7)f	Open Cut	108	1.5	0.004	59
S2069	25.79	Perennial	(b)(7)f	Open Cut	280	4	0.026	59
S2071	25.80	Ephemeral	(b)(7)f	Open Cut	28	1.5	0.001	59
S2070	25.85	Ephemeral	(b)(7)f	Open Cut	9	1.5	0.000	59
S2068	25.92	Intermittent	(b)(7)f	Open Cut	110	1.5	0.004	60
S2067	26.12	Perennial	(b)(7)f	Open Cut	114	3.5	0.009	60
S2054	27.56	Perennial	(b)(7)f	Open Cut	79	5	0.009	63
S2053	27.70	Intermittent	(b)(7)f	Open Cut	53	2	0.002	63
P2002	27.70	Pond	(b)(7)f	Open Cut	N/A		0.061	63
S2052	29.20	Ephemeral	(b)(7)f	Open Cut	176	1	0.004	67
S2051	29.29	Ephemeral	(b)(7)f	Open Cut	241	1	0.006	67
S1062B	30.86	Intermittent	(b)(7)f	Open Cut	97	3	0.007	71
S1061	30.93	Perennial	(b)(7)f	Open Cut	130	5	0.015	71
S1060	30.97	Perennial	(b)(7)f	Open Cut	121	3	0.008	71
S1056	32.04	Ephemeral	(b)(7)f	Open Cut	6	1	0.000	73
S1054	32.13	Perennial	(b)(7)f	Open Cut	497	10	0.496	74
S1297	32.20	Perennial	(b)(7)f	Open Cut	18	6.5	0.029	74
S1296	32.22	Intermittent	(b)(7)f	Open Cut	93	3	0.006	74
S1291	32.26	Intermittent	(b)(7)f	Open Cut	109	1.5	0.004	74
S1290	32.29	Intermittent	(b)(7)f	Open Cut	97	2.5	0.006	74
S1295	32.39	Intermittent	(b)(7)f	Open Cut	51	1.5	0.002	74
S1294	32.39	Intermittent	(b)(7)f	Open Cut	150	1.5	0.005	74

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S1038	32.50	Perennial	(b)(7)f	Unnamed Trib. to Santa Bogue Creek	Open Cut	120	3	0.008	74
S1042	33.00	Intermittent	(b)(7)f	Unnamed Trib. to Santa Bogue Creek	Open Cut	26	2.5	0.002	76
S1044	33.29	Ephemeral	(b)(7)f	Unnamed Trib. to Santa Bogue Creek	Open Cut	32	1.5	0.001	76
S1046	33.43	Ephemeral	(b)(7)f	Unnamed Trib. to Santa Bogue Creek	Open Cut	87	2.5	0.005	76
S1047	33.48	Perennial	(b)(7)f	Unnamed Trib. to Santa Bogue Creek	Open Cut	107	3.5	0.067	76
S1049	33.50	Ephemeral	(b)(7)f	Unnamed Trib. to Santa Bogue Creek	Open Cut	35	2.5	0.002	77
S1048	33.50	Ephemeral	(b)(7)f	Unnamed Trib. to Santa Bogue Creek	Open Cut	187	2.5	0.011	77
S1050	33.51	Ephemeral	(b)(7)f	Unnamed Trib. to Santa Bogue Creek	Open Cut	27	1	0.001	77
S1051	33.57	Ephemeral	(b)(7)f	Unnamed Trib. to Santa Bogue Creek	Open Cut	101	2.5	0.006	77
S1052	33.61	Ephemeral	(b)(7)f	Unnamed Trib. to Santa Bogue Creek	Open Cut	90	2.5	0.005	77
S1053	33.65	Perennial	(b)(7)f	Unnamed Trib. to Santa Bogue Creek	Open Cut	94	2.5	0.005	77
S2046	33.75	Intermittent	(b)(7)f	Unnamed Trib. to Santa Bogue Creek	Open Cut	135	3	0.009	77
S2045	33.83	Ephemeral	(b)(7)f	Unnamed Trib. to Santa Bogue Creek	Open Cut	102	2	0.005	77
S2044	34.25	Intermittent	(b)(7)f	Unnamed Trib. to Santa Bogue Creek	Open Cut	119	4	0.011	78
S2042	34.59	Intermittent	(b)(7)f	Unnamed Trib. to Elias Creek	Open Cut	92	2.5	0.005	79
S2026	34.95	Perennial	(b)(7)f	Unnamed Trib. to Elias Creek	Open Cut	87	2	0.004	80
S2027	35.46	Intermittent	(b)(7)f	Unnamed Trib. to Elias Creek	Open Cut	96	2.5	0.006	81
S2028	35.75	Perennial	(b)(7)f	Elias Creek	Open Cut	65	18	0.578	82
S2029	36.14	Ephemeral	(b)(7)f	Unnamed Trib. to Elias Creek	Open Cut	155	1.5	0.005	83
S2030	36.18	Ephemeral	(b)(7)f	Unnamed Trib. to Elias Creek	Open Cut	27	2.5	0.002	83
S2032	36.36	Perennial	(b)(7)f	Unnamed Trib. to Elias Creek	Open Cut	130	5	0.015	83
S1030	36.43	Intermittent	(b)(7)f	Unnamed Trib. to Elias Creek	Open Cut	90	3.75	0.008	83
S1029	36.55	Intermittent	(b)(7)f	Unnamed Trib. to Elias Creek	Open Cut	96	2.5	0.006	84
S1028	36.84	Perennial	(b)(7)f	Unnamed Trib. to Elias Creek	Open Cut	118	25	0.411	84
S1018	37.99	Perennial	(b)(7)f	Unnamed Trib. to Elias Creek	Open Cut	25	4	0.002	87
S1015	38.17	Intermittent	(b)(7)f	Unnamed Trib. to Elias Creek	Open Cut	102	2.5	0.006	87
S1014	38.46	Perennial	(b)(7)f	Unnamed Trib. to Elias Creek	Open Cut	92	3	0.006	88
S1013	38.50	Perennial	(b)(7)f	Unnamed Trib. to Elias Creek	Open Cut	105	3.5	0.008	88
S1010	38.65	Intermittent	(b)(7)f	Unnamed Trib. to Elias Creek	Open Cut	10	2	0.000	88
S1011	39.11	Intermittent	(b)(7)f	Unnamed Trib. to Tauler Creek	Open Cut	130	3.5	0.010	90
S1012	39.28	Intermittent	(b)(7)f	Unnamed Trib. to Tauler Creek	Open Cut	148	2.5	0.008	90
S2133	39.38	Ephemeral	(b)(7)f	Unnamed Trib. to Tauler Creek	Open Cut	100	1.5	0.003	90
S2023	40.09	Ephemeral	(b)(7)f	Unnamed Trib. to Tauler Creek	Open Cut	90	2	0.004	92
S2025	40.18	Ephemeral	(b)(7)f	Unnamed Trib. to Tauler Creek	Open Cut	162	2.5	0.009	92
S2024	40.22	Intermittent	(b)(7)f	Unnamed Trib. to Tauler Creek	Open Cut	48	3.5	0.004	92
S2024B	40.24	Intermittent	(b)(7)f	Unnamed Trib. to Tauler Creek	Open Cut	118	2.5	0.007	92
S1036	40.79	Ephemeral	(b)(7)f	Unnamed Trib. to Folsoms Creek	Open Cut	86	2.5	0.005	93
S1034	41.08	Ephemeral	(b)(7)f	Unnamed Trib. to Folsoms Creek	Open Cut	161	2.5	0.009	94
S2038	41.36	Ephemeral	(b)(7)f	Unnamed Trib. to Folsoms Creek	Open Cut	256	2	0.012	95
S2037B	41.52	Ephemeral	(b)(7)f	Unnamed Trib. to Folsoms Creek	Open Cut	199	2	0.009	95
S2036	41.74	Perennial	(b)(7)f	Unnamed Trib. to Folsoms Creek	Open Cut	106	12	0.141	96
S2035	41.99	Ephemeral	(b)(7)f	Unnamed Trib. to Folsoms Creek	Open Cut	92	1.5	0.003	96

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S2040	42.15	Ephemeral	(b)(7)f	Unnamed Trib. to Folsoms Creek	Open Cut	109	1.5	0.004	96
S2041	42.29	Perennial	(b)(7)f	Folsoms Creek	Open Cut	101	3.5	0.008	97
S1025	43.05	Perennial	(b)(7)f	Unnamed Trib. to Tombigbee River	Open Cut	105	4	0.010	98
S1024	43.11	Intermittent	(b)(7)f	Unnamed Trib. to Tombigbee River	Open Cut	69	3.5	0.006	99
S1023	43.29	Perennial	(b)(7)f	Unnamed Trib. to Tombigbee River	Open Cut	90	3	0.006	99
S1022	43.38	Intermittent	(b)(7)f	Unnamed Trib. to Tombigbee River	Open Cut	50	3.5	0.004	99
S1020	43.38	Perennial	(b)(7)f	Unnamed Trib. to Tombigbee River	Open Cut	113	3.5	0.009	99
S1009	43.66	Intermittent	(b)(7)f	Unnamed Trib. to Smiths Creek	Open Cut	79	2.5	0.005	100
S2021	44.12	Intermittent	(b)(7)f	Unnamed Trib. to Smiths Creek	Open Cut	60	3	0.004	101
S2022B	44.14	Intermittent	(b)(7)f	Unnamed Trib. to Smiths Creek	Open Cut	103	2	0.005	101
S2168	44.34	Intermittent	(b)(7)f	Unnamed Trib. to Smiths Creek	Open Cut	99	2.5	0.006	101
S2167	44.40	Intermittent	(b)(7)f	Unnamed Trib. to Smiths Creek	Open Cut	83	3	0.006	102
S1005	44.91	Perennial	(b)(7)f	Smiths Creek	Open Cut	163	6.5	0.176	103
S1008	44.95	Ephemeral	(b)(7)f	Unnamed Trib. to Smiths Creek	Open Cut	94	1.5	0.003	103
S2161	45.10	Ephemeral	(b)(7)f	Unnamed Trib. to Smiths Creek	Open Cut	88	2	0.004	103
S2162	45.10	Ephemeral	(b)(7)f	Unnamed Trib. to Smiths Creek	Open Cut	82	2	0.004	103
S2164	45.15	Intermittent	(b)(7)f	Unnamed Trib. to Smiths Creek	Open Cut	111	2	0.005	103
S2166	45.69	Perennial	(b)(7)f	Unnamed Trib. to Smiths Creek	Open Cut	50	3.5	0.004	152
S2019	45.77	Perennial	(b)(7)f	Unnamed Trib. to Smiths Creek	Open Cut	153	3	0.011	105
S2017	45.94	Perennial	(b)(7)f	Unnamed Trib. to Smiths Creek	Open Cut	97	4	0.009	105
S2018	45.94	Ephemeral	(b)(7)f	Unnamed Trib. to Smiths Creek	Open Cut	21	1.5	0.001	105
S2016	45.96	Ephemeral	(b)(7)f	Unnamed Trib. to Smiths Creek	Open Cut	220	1.5	0.008	105
S2222	48.04	Ephemeral	(b)(7)f	Unnamed Trib. to Tombigbee River	Open Cut	99	1.5	0.003	110
S2033	48.04	Perennial	(b)(7)f	Unnamed Trib. to Tombigbee River	Open Cut	88	3	0.006	110
S2034	48.06	Ephemeral	(b)(7)f	Unnamed Trib. to Tombigbee River	Open Cut	48	2	0.002	110
S2013	48.51	Perennial	(b)(7)f	Unnamed Trib. to Tombigbee River	Open Cut	110	5	0.013	111
S2014	48.59	Intermittent	(b)(7)f	Unnamed Trib. to Tombigbee River	Open Cut	154	1.5	0.005	111
S2014B	48.60	Intermittent	(b)(7)f	Unnamed Trib. to Tombigbee River	Open Cut	83	1.5	0.003	111
S2015	48.79	Perennial	(b)(7)f	Unnamed Trib. to Tombigbee River	Open Cut	62	1.5	0.002	112
S1003	49.08	Perennial	(b)(7)f	Unnamed Trib. to Tombigbee River	Open Cut	97	2.5	0.006	112
S1004	49.09	Perennial	(b)(7)f	Unnamed Trib. to Tombigbee River	Open Cut	51	2	0.002	112
S1261	50.88	Intermittent	(b)(7)f	Unnamed Trib. to Tombigbee River	Open Cut	345	3	0.024	117
S2002	51.38	Perennial	(b)(7)f	Unnamed Trib. to Tombigbee River	Open Cut	82	4.5	0.008	118
S1107	52.10	Perennial	(b)(7)f	Unnamed Trib. to Tombigbee River	Open Cut	377	15	1.095	119
S2004	53.13	Ephemeral	(b)(7)f	Unnamed Trib. to Tombigbee River	Open Cut	89	2	0.004	122
Access Roads									
S2120	AR-00.6	Perennial	(b)(7)f	Unnamed Trib. to Long Creek	Open Cut	32	4	0.003	125
S2216	AR-01.4	Perennial	(b)(7)f	Unnamed Trib. to Long Creek	Open Cut	33	2.5	0.002	126
S2215	AR-01.4	Perennial	(b)(7)f	Unnamed Trib. to Long Creek	Open Cut	31	2.5	0.002	126
S2219	AR-09.5	Perennial	(b)(7)f	Rock Branch	Open Cut	38	15	0.017	132
S2218	AR-09.5	Intermittent	(b)(7)f	Unnamed Trib. to Rock Branch	Open Cut	31	1.5	0.001	132

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S2217	AR-09.5	Ephemeral	(b)(7)f	Unnamed Trib. to Rock Branch	Open Cut	35	1.5	0.001	23
S1310	AR-16.2	Perennial		Unnamed Trib. to Golden Horn Branch	Open Cut	57	3	0.004	37
S1317	AR-16.2	Perennial		Golden Horn Branch	Open Cut	44	13	0.023	37
S1311	AR-16.2	Perennial		Unnamed Trib. to Golden Horn Branch	Open Cut	31	2.5	0.002	37
S2109	AR-17.3	Intermittent		Unnamed Trib. to Okatuppa Creek	Open Cut	145	3.5	0.012	40
S2148	AR-17.3	Ephemeral		Unnamed Trib. to Okatuppa Creek	Open Cut	60	2	0.003	136
S2149	AR-17.3	Intermittent		Unnamed Trib. to Okatuppa Creek	Open Cut	32	3	0.002	136
S2150	AR-17.3	Ephemeral		Unnamed Trib. to Okatuppa Creek	Open Cut	282	1	0.006	136
S2088	AR-18.5-EX	Intermittent		Unnamed Trib. to Souwilpa Creek	Open Cut	40	1.5	0.001	43
S2075	AR-21.4-EX	Perennial		McNish Branch	Open Cut	129	8	0.425	50
S2223	AR-31.7	Perennial		Unnamed Trib. to Santa Bogue Creek	Open Cut	33	3.5	0.003	73
S2224	AR-31.7	Perennial		Unnamed Trib. to Santa Bogue Creek	Open Cut	40	3.5	0.003	74
S2225	AR-31.7	Perennial		Unnamed Trib. to Santa Bogue Creek	Open Cut	63	12	0.032	74
S2226	AR-31.7	Ephemeral		Unnamed Trib. to Santa Bogue Creek	Open Cut	37	2.5	0.002	74
S2227	AR-31.7	Ephemeral		Unnamed Trib. to Santa Bogue Creek	Open Cut	13	1	0.000	74
S1302	AR-32.5	Perennial		Unnamed Trib. to Santa Bogue Creek	Open Cut	34	4	0.003	74
S1303	AR-32.8	Perennial		Unnamed Trib. to Santa Bogue Creek	Open Cut	107	10	0.036	75
S1304	AR-32.8	Perennial		Unnamed Trib. to Santa Bogue Creek	Open Cut	26	3	0.002	75
S1306	AR-33.1	Intermittent		Unnamed Trib. to Santa Bogue Creek	Open Cut	49	3	0.003	75
S1307	AR-33.1	Intermittent		Unnamed Trib. to Santa Bogue Creek	Open Cut	25	2	0.001	75
S1305	AR-33.1	Perennial		Unnamed Trib. to Santa Bogue Creek	Open Cut	47	6	0.018	76
S2236	AR-35.1-EX	Intermittent		Unnamed Trib. to Elias Creek	Open Cut	37	2.5	0.002	81
S2232	AR-36.5	Intermittent		Unnamed Trib. to Elias Creek	Open Cut	31	2.5	0.002	140
S2233	AR-36.5	Perennial		Unnamed Trib. to Elias Creek	Open Cut	125	2.5	0.007	140
S2234	AR-36.5	Perennial		Unnamed Trib. to Elias Creek	Open Cut	32	2.5	0.002	139
S2235	AR-36.5	Perennial		Unnamed Trib. to Elias Creek	Open Cut	24	2.5	0.001	139
S2231	AR-36.5-EX	Perennial		Unnamed Trib. to Elias Creek	Open Cut	48	20	0.031	138
S1157	AR-37.5	Intermittent		Unnamed Trib. to Elias Creek	Open Cut	29	1.5	0.001	142
S1158	AR-37.5	Intermittent		Unnamed Trib. to Elias Creek	Open Cut	23	1.5	0.001	142
P1007	AR-37.5	Pond		Unnamed Trib. to Elias Creek	Open Cut	23	1.5	0.001	142
S2136	AR-39.5	Intermittent		Unnamed Pond	Open Cut	N/A		0.392	142
S2135	AR-39.5	Perennial		Unnamed Trib. to Tauler Creek	Open Cut	27	3	0.002	143
S2134	AR-39.5	Perennial		Unnamed Trib. to Tauler Creek	Open Cut	54	5	0.006	143
S1154	AR-40.6	Intermittent	Unnamed Trib. to Tauler Creek	Open Cut	22	3	0.002	143	
S1155	AR-40.6	Perennial	Unnamed Trib. to Folsoms Creek	Open Cut	30	2.5	0.002	94	
S1156	AR-40.6	Intermittent	Unnamed Trib. to Folsoms Creek	Open Cut	30	3.5	0.002	148	
S1152	AR-40.6	Ephemeral	Unnamed Trib. to Folsoms Creek	Open Cut	31	4.5	0.003	148	
S1153	AR-40.6	Perennial	Unnamed Trib. to Folsoms Creek	Open Cut	117	0.75	0.002	148	
S1151	AR-40.6	Intermittent	Folsoms Creek	Open Cut	75	9	0.043	148	
S1150	AR-41.5	Intermittent	Unnamed Trib. to Tauler Creek	Open Cut	31	3	0.002	147	
P2004	AR-41.5	Pond	Unnamed Trib. to Folsoms Creek	Open Cut	35	2.5	0.002	150	
S2137	AR-41.5	Perennial	Unnamed Pond	Open Cut	0		0.010	150	
			Folsoms Creek	Open Cut	52	20	0.028	150	

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S1148	AR-47.1	Ephemeral	(b)(7)f	Gaines Creek	Open Cut	46	1	0.001	108
S2171	AR-51.1	Intermittent		Unnamed Trib. to Tombigbee River	Open Cut	523	1.5	0.018	157
S2169	AR-51.1	Perennial		Unnamed Trib. to Tombigbee River	Open Cut	165	3	0.011	157
S2170	AR-51.1	Perennial		Unnamed Trib. to Tombigbee River	Open Cut	30	3.5	0.002	157