SRNL
SAVANNAH RIVER NATIONAL LABORATORY

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Addendum to Integrated Hydrogeological Modeling Report of the General Separations Area (GSA)

In support of the Performance Assessment modeling for the Tank Closure program, the Savannah River National Laboratory (SRNL) compiled laboratory permeability data that were used to construct the General Separations Area (GSA) groundwater flow model. Data from single well pumping tests, multiple well pumping tests and slug tests were also used in constructing the GSA groundwater flow model. These data are included in Appendix B of the report "Integrated Hydrogeologic Modeling of the General Separations Area: Groundwater Flow Model", Volume 2, WSRC-TR-96-0399, Rev. 1, by Flach and Harris (1999). However, laboratory measured permeability data used in this GSA groundwater flow model was not included in the report by Flach and Harris (1999). This memo documents the laboratory measured permeability data that was used to construct the groundwater flow model.

The GSA database for the groundwater flow model includes information related to approximately 259 soil samples from the GSA collected for laboratory measurements. Out of these samples, approximately 207 samples yielded permeability values. Table 1 in this memo provides the sample location, ground surface elevation, top and bottom of the sample interval, permeability measurements and reference information for each of these permeability samples. Figure 1 shows the location of these samples across the GSA. Flach and Harris (1999) discuss the permeability data and other tests that were used to define hydraulic properties in the model.

References

Flach, G. P. and Harris, M. K. 1999. *Integrated Hydrogeological Model of the General Separations Area, Volume 2: Groundwater Flow Model*, WSRC-TR-96-0399, Rev. 1, Westinghouse Savannah River Company, Aiken, SC.

Table 1: Laboratory Permeability Measurements Used in GSA Flow Model

Location ID	UTM E	UTM N	Ground Surface Elevation (ft msl)	Top of Sample Interval (ft bls)	Bottom of Sample Interval (ft bls)	Horizontal Hydraulic Conductivity (cm/sec)	Vertical Hydraulic Conductivity (cm/sec)	Reference
BGO003A	438663.9	3683310.4	288.2	162	164	7.40E-09	4.00E-09	WSRC-RP-94-1286
BGO003A	438663.9	3683310.4	288.2	266.1	267	8.10E-08	5.00E-08	WSRC-RP-94-1286
BGO003C	438665.8	3683307.5	288.2	72	73.5	3.10E-06	2.40E-08	WSRC-RP-94-1286
BGO009AA	438056.9	3683401.4	282.8	62	63.5	7.30E-08	2.00E-08	WSRC-RP-92-195
BGO009AA	438056.9	3683401.4	282.8	222	223.5	6.20E-07	2.70E-08	WSRC-RP-92-195
BGO010A	438008.3	3683301.8	299.1	220	221.5	2.10E-08	1.10E-09	WSRC-RP-92-195
BGO020AA	438356.1	3682857.2	280.88	268	270	4.30E-06	1.50E-09	WSRC-RP-96-060
BGO020B	438357.7	3682857.5	282.63	152	154		2.50E-05	WSRC-RP-96-060
BGO020C	438356.8	3682851.6	282.59	75	77.5	3.50E-08	4.30E-09	WSRC-RP-96-060
BGO039A	438778.0	3682643.7	293.7	280.5	282.5	2.30E-06	4.80E-07	WSRC-RP-96-060
BGO039C	438778.2	3682639.9	293.07	91	93	7.50E-05	2.30E-07	WSRC-RP-96-060
BGO039C	438778.2	3682639.9	293.07	185	187	4.20E-09	1.30E-08	WSRC-RP-96-060
BGO041A	437662.7	3682923.7	298.3	88	90	3.00E-07	3.40E-05	WSRC-RP-92-195
BGO041A	437662.7	3682923.7	298.3	164	166	1.30E-07	1.00E-08	WSRC-RP-92-195
BGO043AA	437768.9	3683225.8	312.2	185	187	8.60E-09	3.10E-09	WSRC-RP-92-195
BGO044AA	438221.4	3683438.7	283.3	226	227.5	8.30E-05	1.20E-05	WSRC-RP-92-195
BGO045A	437567.2	3682613.1	276.9	75	76.8	2.50E-08	1.90E-08	WSRC-RP-92-195
BGO045A	437567.2	3682613.1	276.9	144	145	4.50E-08	7.20E-08	WSRC-RP-92-195
BGO047A	437854.3	3682407.1	264.8	145.5	147	2.00E-06	1.20E-06	WSRC-RP-92-195
BGO049A	438320.5	3682435.1	269.1	75	77	5.20E-05	3.70E-08	WSRC-RP-92-195
BGO051AA	438692.2	3682785.0	287.2	298	299.75	3.90E-09	8.00E-09	WSRC-RP-94-1286
BGO051B	438684.9	3682785.2	286.9	85	87.2	6.10E-09	3.90E-09	WSRC-RP-94-1286
BGO051B	438684.9	3682785.2	286.9	180	182.5	8.00E-09	5.80E-09	WSRC-RP-94-1286
BGO052A	438435.5	3682790.1	283	80.5	82.8	1.20E-08	4.30E-09	WSRC-RP-96-060
BGO052A	438435.5	3682790.1	283	164	166	1.50E-08	8.90E-09	WSRC-RP-96-060
BGO052A	438435.5	3682790.1	283	273	275	4.00E-09	3.80E-09	WSRC-RP-96-060
BGO053AA	437740.9	3682829.6	288.9	265	267	1.00E-08	8.00E-09	WSRC-RP-96-060

Location ID	UTM E	UTM N	Ground Surface Elevation (ft msl)	Top of Sample Interval (ft bls)	Bottom of Sample Interval (ft bls)	Horizontal Hydraulic Conductivity (cm/sec)	Vertical Hydraulic Conductivity (cm/sec)	Reference
BGO053B	437734.3	3682829.7	287.21	153	155	2.50E-09	2.30E-09	WSRC-RP-96-060
BGO053C	437731.1	3682829.7	287.08	67.5	69.6	9.00E-07	4.20E-09	WSRC-RP-96-060
BGT009	438237.1	3684160.7	226	72	73.5	6.00E-07	2.90E-07	WSRC-RP-96-060
BGT009	438237.1	3684160.7	226	80	82	1.10E-06	2.90E-07	WSRC-RP-96-060
BGT011	438165.1	3684456.8	222.5	70	71	3.50E-07	1.10E-07	WSRC-RP-96-060
BGT011	438165.1	3684456.8	222.5	178	178.8	4.30E-08	4.10E-08	WSRC-RP-96-060
BGT018	437778.1	3684325.2	216.5	175	177	5.50E-08	2.10E-08	WSRC-RP-96-060
BGT018	437778.1	3684325.2	216.5	192	194	1.60E-06	7.00E-07	WSRC-RP-96-060
BGT022	437799.3	3683547.3	281	55	57	1.10E-08	2.00E-09	WSRC-RP-96-060
BGT022	437799.3	3683547.3	281	165	167	6.50E-06	3.00E-07	WSRC-RP-96-060
BGT022	437799.3	3683547.3	281	275	276		1.20E-08	WSRC-RP-96-060
BGT028	437310.1	3684290.6	258.3	207.3	208.7	2.50E-07	2.50E-08	WSRC-RP-96-060
BGT047	437455.6	3682992.4	317.32	108	109		1.00E-06	WSRC-RP-96-060
BGT047	437455.6	3682992.4	317.32	178	179	5.90E-06	2.00E-06	WSRC-RP-96-060
BGT053	437287.9	3682412.7	278.25	88	90	6.00E-09	1.80E-08	WSRC-RP-96-060
BGT053	437287.9	3682412.7	278.25	314	315.6	4.70E-09	5.00E-09	WSRC-RP-96-060
BGT061	439061.1	3682600.8	284.3	102	104	1.50E-08	5.00E-09	WSRC-RP-96-060
BGT061	439061.1	3682600.8	284.3	178	179.1	3.00E-09	2.70E-09	WSRC-RP-96-060
BGT067	439263.6	3683325.3	242.3	57	59	1.20E-06	2.40E-05	WSRC-RP-96-060
BGT067	439263.6	3683325.3	242.3	112	113	4.10E-08	2.70E-08	WSRC-RP-96-060
BGX001A	438382.8	3683584.5	289.1	80	82	8.30E-09	1.20E-09	WSRC-RP-92-195
BGX002B	438233.9	3683616.1	289.2	75	77	7.00E-09	1.50E-09	WSRC-RP-92-195
BGX002B	438233.9	3683616.1	289.2	156	156.8	1.40E-08	6.50E-09	WSRC-RP-92-195
BGX004A	437856.3	3683595.9	288.8	65	67	6.00E-09	2.90E-09	WSRC-RP-92-195
BGX004C	437851.8	3683595.3	288.7	104	106	4.70E-08	2.10E-08	WSRC-RP-92-195
BGX007D	438042.3	3683908.5	277.1	123	124.5		2.30E-08	WSRC-RP-92-195
BGX009D	438593.7	3683777.2	277.4	70	70.8	1.20E-07	3.40E-08	WSRC-RP-91866
BGX009D	438593.7	3683777.2	277.4	102.5	104.5	1.60E-07	4.40E-08	WSRC-RP-92-195
BGX011D	438901.5	3683385.0	273.8	94	96		4.00E-07	WSRC-RP-92-195
BGX011D	438901.5	3683385.0	273.8	154	156	3.20E-08	6.60E-09	WSRC-RP-92-195

Location ID	UTM E	UTM N	Ground Surface Elevation (ft msl)	Top of Sample Interval (ft bls)	Bottom of Sample Interval (ft bls)	Horizontal Hydraulic Conductivity (cm/sec)	Vertical Hydraulic Conductivity (cm/sec)	Reference
FAC001SB	437324.0	3683305.9	-3000	170	172	9.30E-08	1.10E-08	WSRC-RP-91504
FAC004P	437327.4	3683296.8	312	88	90.3	1.10E-04	3.70E-05	WSRC-RP-91504
FC003B	437806.2	3683879.3	269.2	44	46	5.70E-05		DPST-81-503
FC003B	437806.2	3683879.3	269.2	62.5	65	5.70E-06	6.80E-07	DPST-81-503
FC003B	437806.2	3683879.3	269.2	62.5	65	1.00E-05	1.20E-06	DPST-81-503
FC003B	437806.2	3683879.3	269.2	79	81.5	2.60E-07	6.10E-07	DPST-81-503
FC003B	437806.2	3683879.3	269.2	79	81.5	6.10E-07	6.40E-07	DPST-81-503
FC003B	437806.2	3683879.3	269.2	174	176.5	7.40E-05	1.00E-04	DPST-81-503
FC003B	437806.2	3683879.3	269.2	174	176.5	7.60E-05	5.00E-05	DPST-81-503
FC003B	437806.2	3683879.3	269.2	204	206.5		1.30E-08	DPST-81-503
FC004B	436256.2	3684078.1	239.1	60	62	5.20E-04	1.20E-04	DPST-81-503
FC004B	436256.2	3684078.1	239.1	60	62	6.90E-04	1.70E-04	DPST-81-503
FC004B	436256.2	3684078.1	239.1	68	70	1.80E-07	1.70E-07	DPST-81-503
FC004B	436256.2	3684078.1	239.1	90	92	3.40E-08	3.40E-08	DPST-81-503
FC005B	435411.6	3685629.9	204.6	68	70.5		2.40E-03	1982-DAPP
FC005B	435411.6	3685629.9	204.6	116	118.5	2.90E-07	6.50E-08	1982-DAPP
FC005B	435411.6	3685629.9	204.6	130	132.5	3.20E-06	1.10E-06	1982-DAPP
FC005B	435411.6	3685629.9	204.6	165	167.5		1.20E-07	1982-DAPP
FCH001	436490.5	3683208.3	316.8	105	108	7.24E-09	7.29E-09	WSRC-RP-93-532
FCH001	436490.5	3683208.3	316.8	170	171	4.12E-07	3.09E-07	WSRC-RP-93-532
FCH001	436490.5	3683208.3	316.8	260.5	262	3.84E-05	1.30E-05	WSRC-RP-93-532
FCH002	436607.8	3682921.1	288.7	80	83	7.59E-09	8.39E-09	WSRC-RP-93-532
FCH002	436607.8	3682921.1	288.7	150	153	8.99E-09	6.84E-09	WSRC-RP-93-532
FCH002	436607.8	3682921.1	288.7	229.3	230.8	7.94E-08	3.33E-08	WSRC-RP-93-532
FCH003	436560.6	3682720.6	307.2	105	108	2.43E-08	2.24E-08	WSRC-RP-93-532
FCH003	436560.6	3682720.6	307.2	175	176.3	5.62E-07	5.36E-07	WSRC-RP-93-532
FCH003	436560.6	3682720.6	307.2	265.3	266.4	1.02E-07	5.14E-08	WSRC-RP-93-532
FCH004	436642.0	3682574.6	297.5	104	107	1.15E-08	9.41E-09	WSRC-RP-93-532
FCH004	436642.0	3682574.6	297.5	175	177.5	7.42E-09	5.71E-09	WSRC-RP-93-532
FCH004	436642.0	3682574.6	297.5	262.8	264.4	7.90E-08	3.24E-08	WSRC-RP-93-532

Location ID	UTM E	UTM N	Ground Surface Elevation (ft msl)	Top of Sample Interval (ft bls)	Bottom of Sample Interval (ft bls)	Horizontal Hydraulic Conductivity (cm/sec)	Vertical Hydraulic Conductivity (cm/sec)	Reference
FCH005	436648.6	3682382.5	284.2	90	93	1.14E-08	9.71E-09	WSRC-RP-93-532
FCH005	436648.6	3682382.5	284.2	160	162	5.36E-04	3.87E-04	WSRC-RP-93-532
FIW001MC	436719.8	3682122.6	293.3	104	106	5.30E-07	1.50E-08	WSRC-RP-93-1575
FIW002MA	436719.9	3682034.4	290.5	103.5	105.5	8.00E-06	1.30E-08	WSRC-RP-93-1575
FIW002MA	436719.9	3682034.4	290.5	171.2	172	1.50E-08	7.40E-09	WSRC-RP-93-1575
FIW002MA	436719.9	3682034.4	290.5	171.2	172	1.50E-08	7.40E-09	WSRC-RP-93-1575
FSB096A	436561.7	3681524.0	277.7	117	119.5	2.97E-07		WSRC-RP-93-1575
FSB096A	436561.7	3681524.0	277.7	172	173	3.70E-09		WSRC-RP-93-1575
FSB114A	437045.9	3682032.9	250	138.5	140	2.10E-08		WSRC-RP-93-1575
FSB114C	437044.4	3682028.5	250.2	77	79	2.40E-05		WSRC-RP-93-1575
FSB120A	436295.4	3681577.6	278	168	168.4	3.00E-06		WSRC-RP-93-1575
FSB120C	436292.3	3681579.5	277.7	107	108	1.00E-05		WSRC-RP-93-1575
FSB122C	436350.9	3680993.5	216	70	72	3.20E-07		WSRC-RP-93-1575
HC001B	440104.7	3682920.7	299.5	45	47	1.98E-04	7.87E-04	DPST-80-601
HC001B	440104.7	3682920.7	299.5	57	59	1.85E-04	7.17E-04	DPST-80-601
HC001B	440104.7	3682920.7	299.5	75	77	6.83E-04	3.70E-04	DPST-80-601
HC001B	440104.7	3682920.7	299.5	90	92	1.97E-04	1.85E-04	DPST-80-601
HC001B	440104.7	3682920.7	299.5	103.5	105.5	1.33E-03	3.82E-04	DPST-80-601
HC001B	440104.7	3682920.7	299.5	120	122	1.18E-03	7.06E-04	DPST-80-601
HC001B	440104.7	3682920.7	299.5	135	137	3.47E-05	8.10E-06	DPST-80-601
HC001B	440104.7	3682920.7	299.5	150	152	2.31E-05	2.31E-05	DPST-80-601
HC001B	440104.7	3682920.7	299.5	159	160.7	1.16E-04	2.89E-04	DPST-80-601
HC001B	440104.7	3682920.7	299.5	172	173.5	5.79E-05	2.08E-04	DPST-80-601
HC001B	440104.7	3682920.7	299.5	178.9	180.48	6.94E-07	2.31E-06	DPST-80-601
HC001B	440104.7	3682920.7	299.5	205	205		1.16E-04	DPST-80-601
HCH001	439681.2	3683008.7	284	55	58	9.07E-05	8.03E-05	WSRC-RP-93-532
HCH001	439681.2	3683008.7	284	99	99	7.00E-02	7.00E-02	WSRC-IM-91-53
HCH001	439681.2	3683008.7	284	140.3	140.3	1.00E-02	1.00E-02	WSRC-IM-91-53
HCH001	439681.2	3683008.7	284	155	156.5		1.52E-05	WSRC-RP-93-532
HCH001	439681.2	3683008.7	284	172.3	172.3	5.00E-02	5.00E-02	WSRC-IM-91-53

Location ID	UTM E	UTM N	Ground Surface Elevation (ft msl)	Top of Sample Interval (ft bls)	Bottom of Sample Interval (ft bls)	Horizontal Hydraulic Conductivity (cm/sec)	Vertical Hydraulic Conductivity (cm/sec)	Reference
HCH001	439681.2	3683008.7	284	205.3	205.3	3.00E-02	3.00E-02	WSRC-IM-91-53
HCH001	439681.2	3683008.7	284	207.3	207.3	3.00E-02	3.00E-02	WSRC-IM-91-53
HCH001	439681.2	3683008.7	284	270	273	1.91E-08	1.60E-08	WSRC-RP-93-532
HCH002	439526.0	3682791.4	270.9	65	68	6.31E-05	4.84E-05	WSRC-RP-93-532
HCH002	439526.0	3682791.4	270.9	91.6	91.6	3.00E-02	3.00E-02	WSRC-IM-91-53
HCH002	439526.0	3682791.4	270.9	145	148	6.20E-08	5.17E-08	WSRC-RP-93-532
HCH002	439526.0	3682791.4	270.9	187.4	187.4	1.20E-01	1.20E-01	WSRC-IM-91-53
HCH002	439526.0	3682791.4	270.9	276.3	278	1.63E-07	1.10E-07	WSRC-RP-93-532
HCH003	439576.4	3682631.8	264	85	88	7.36E-07	5.43E-07	WSRC-RP-93-532
HCH003	439576.4	3682631.8	264	95.3	95.3	6.00E-02	6.00E-02	WSRC-IM-91-53
HCH003	439576.4	3682631.8	264	97	97	6.00E-02	6.00E-02	WSRC-IM-91-53
HCH003	439576.4	3682631.8	264	124.3	124.3	1.00E-02	1.00E-02	WSRC-IM-91-53
HCH003	439576.4	3682631.8	264	126	126	1.00E-02	1.00E-02	WSRC-IM-91-53
HCH003	439576.4	3682631.8	264	140	141.5	4.10E-07	3.89E-07	WSRC-RP-93-532
HCH003	439576.4	3682631.8	264	145.3	145.3	2.00E-02	2.00E-02	WSRC-IM-91-53
HCH003	439576.4	3682631.8	264	165.3	165.3	4.00E-02	4.00E-02	WSRC-IM-91-53
HCH003	439576.4	3682631.8	264	167	167	2.00E-02	2.00E-02	WSRC-IM-91-53
HCH003	439576.4	3682631.8	264	255	258	3.88E-06	1.69E-06	WSRC-RP-93-532
HCH004	439304.1	3682603.4	269.9	80	83	3.10E-08	2.50E-08	WSRC-RP-93-532
HCH004	439304.1	3682603.4	269.9	91.3	91.3	5.00E-02	5.00E-02	WSRC-IM-91-53
HCH004	439304.1	3682603.4	269.9	175.3	175.3	2.00E-02	2.00E-02	WSRC-IM-91-53
HCH004	439304.1	3682603.4	269.9	199.8	199.8	8.00E-02	8.00E-02	WSRC-IM-91-53
HCH004	439304.1	3682603.4	269.9	230	231.6	1.22E-07	8.86E-08	WSRC-RP-93-532
HCH005	439465.9	3682480.3	255	77.3	77.3	3.00E-02	3.00E-02	WSRC-IM-91-53
HCH005	439465.9	3682480.3	255	91.3	91.3	5.00E-02	5.00E-02	WSRC-IM-91-53
HCH005	439465.9	3682480.3	255	140	142.5	5.58E-05	4.33E-05	WSRC-RP-93-532
HCH005	439465.9	3682480.3	255	145.3	145.3	2.00E-02	2.00E-02	WSRC-IM-91-53
HCH005	439465.9	3682480.3	255	181.3	181.3	3.00E-02	3.00E-02	WSRC-IM-91-53
HCH005	439465.9	3682480.3	255	271.6	273.4	1.14E-07	9.68E-08	WSRC-RP-93-532
HIW001MC	439130.4	3682496.0	272.3	79	81	5.00E-06	1.90E-07	WSRC-RP-93-1575

Location ID	UTM E	UTM N	Ground Surface Elevation (ft msl)	Top of Sample Interval (ft bls)	Bottom of Sample Interval (ft bls)	Horizontal Hydraulic Conductivity (cm/sec)	Vertical Hydraulic Conductivity (cm/sec)	Reference
HIW002A	438572.6	3682372.5	276.3	78	80	4.00E-07	3.60E-09	WSRC-RP-93-1575
HIW002A	438572.6	3682372.5	276.3	165	165.4	1.20E-07	1.00E-07	WSRC-RP-93-1575
HMD001C	437643.7	3683762.5	262.7	132	134	2.10E-09	4.70E-10	WSRC-RP-91-423
HMD002C	437549.3	3684045.8	259.3	117	118.6	1.90E-09	4.00E-10	WSRC-RP-91-423
HMD003C	437682.0	3684109.6	257.5	107.3	108.6	1.20E-06	6.70E-07	WSRC-RP-91-423
HMD004C	437866.2	3684086.0	248.5	29	31	2.70E-05	3.20E-06	WSRC-RP-91-423
HSB069A	438806.6	3681902.0	234.1	120	120.8		5.35E-08	1988-ATE
HSB107C	439018.0	3682112.1	259.3	60.9	62	6.10E-08	6.10E-08	WSRC-IM-91-53
HSB117A	438275.2	3681961.5	234.8	111.67	112.34		6.38E-07	1988-ATE
HSB118A	438431.0	3682060.9	245	128	129	5.00E-09	0.00E+00	WSRC-IM-91-53
HSB119A	438441.7	3682214.2	254.8	141.1	141.5	3.29E-07	3.29E-07	WSRC-IM-91-53
HSB120A	438467.4	3682350.7	266	155	155.5	9.59E-07	9.59E-07	WSRC-IM-91-53
HSB121A	438949.0	3682184.9	272.3	164	165	2.65E-08	2.65E-08	WSRC-IM-91-53
HSB122A	439006.5	3682291.2	269.4	65	65.5	2.61E-07	2.61E-07	WSRC-IM-91-53
HSB122A	439006.5	3682291.2	269.4	161	161.5	6.00E-09	6.00E-09	WSRC-IM-91-53
HSB123A	439100.6	3682357.4	263.6	150.5	151.5	2.36E-07	2.36E-07	WSRC-IM-91-53
HSB139A	439104.0	3681959.5	231.5	115	115.6		7.74E-08	1988-ATE
HSB140A	439092.7	3681545.3	234	124	126	5.80E-08		WSRC-RP-93-1575
HSB140C	439096.9	3681548.0	233.6	49	51	1.94E-08		WSRC-RP-93-1575
HSB141C	439536.2	3682300.2	252.7	73	75	8.03E-09		WSRC-RP-93-1575
HSB146A	439488.5	3681994.9	249.5	131	132	1.20E-07		WSRC-RP-93-1575
HSB146C	439494.5	3681996.6	250.3	69	70.4	8.22E-08		WSRC-RP-93-1575
HSB148C	438781.1	3681356.6	248.9	66	68	3.84E-07		WSRC-RP-93-1575
OFS001SB	437594.3	3682307.8	261.6	67	68.65	6.00E-04	1.20E-08	WSRC-RP-94-1286
OFS003SB	437854.0	3682234.0	258.1	63	65	6.00E-05	2.40E-08	WSRC-RP-94-1286
OFS003SB	437854.0	3682234.0	258.1	135	137	2.80E-09	1.70E-09	WSRC-RP-94-1286
OFS004SB	438075.1	3682245.6	258.7	45	47	1.90E-06	2.20E-07	WSRC-RP-94-1286
OFS004SB	438075.1	3682245.6	258.7	135	136.5	2.30E-08	4.00E-09	WSRC-RP-94-1286
OFS005SB	437900.8	3682024.2	228.7	27	28.9	5.00E-04	5.00E-04	WSRC-RP-94-1286
OFS005SB	437900.8	3682024.2	228.7	108.6	109.6	6.30E-09	1.60E-09	WSRC-RP-94-1286

Location ID	UTM E	UTM N	Ground Surface Elevation (ft msl)	Top of Sample Interval (ft bls)	Bottom of Sample Interval (ft bls)	Horizontal Hydraulic Conductivity (cm/sec)	Vertical Hydraulic Conductivity (cm/sec)	Reference
P018TA	437347.7	3679343.4	296.9	180	182	2.00E-08	2.70E-08	1986-PSI
P018TA	437347.7	3679343.4	296.9	261	263	3.10E-05	1.40E-05	1986-PSI
P018TA	437347.7	3679343.4	296.9	410	412	3.70E-08	3.20E-08	1986-PSI
P018TA	437347.7	3679343.4	296.9	643	645		2.40E-08	1986-PSI
P027TB	440874.0	3682972.6	274.1	95	98	5.16E-07	4.68E-07	1988-PSI
P027TB	440874.0	3682972.6	274.1	230	233		6.30E-08	1988-PSI
P027TB	440874.0	3682972.6	274.1	340	343	3.93E-08	3.44E-08	1988-PSI
P027TB	440874.0	3682972.6	274.1	458	461	4.84E-08	4.37E-08	1988-PSI
P027TB	440874.0	3682972.6	274.1	607	610	5.46E-08	3.45E-08	1988-PSI
P028TB	437173.8	3683630.4	282.9	132	134	1.85E-07	2.01E-07	1988-PSI
P028TB	437173.8	3683630.4	282.9	293	299	1.39E-07	1.01E-07	1988-PSI
P028TB	437173.8	3683630.4	282.9	370	373	3.61E-08	2.70E-08	1988-PSI
P028TB	437173.8	3683630.4	282.9	370	377	3.92E-08	2.99E-08	1988-PSI
P028TB	437173.8	3683630.4	282.9	464	465		3.83E-07	1988-PSI
P028TB	437173.8	3683630.4	282.9	465	467	2.98E-07	2.69E-07	1988-PSI
P028TB	437173.8	3683630.4	282.9	600	602		7.37E-06	1988-PSI
SDS003A	440103.8	3684389.2	290.5	40	42	1.20E-06	3.30E-07	DPST-86-320
SDS003A	440103.8	3684389.2	290.5	45	47	1.60E-06	5.50E-07	DPST-86-320
YSC001A	439853.3	3685110.2	268.9	65	67	2.90E-08	2.60E-08	1990-WEGS
YSC001A	439853.3	3685110.2	268.9	113.1	113.7	1.60E-08	5.20E-08	1990-WEGS
YSC001C	439929.7	3685220.9	272.5	59	60.9	2.10E-07	4.40E-09	1990-WEGS
YSC001C	439929.7	3685220.9	272.5	113	114.5	1.40E-08	9.10E-08	1990-WEGS
YSC002A	439967.5	3685295.7	281.7	121.8	122.6		9.20E-10	1990-WEGS
YSC003SB	440036.4	3685107.8	277	69	71	5.10E-09	4.50E-09	1990-WEGS
YSC003SB	440036.4	3685107.8	277	127	128	1.80E-08	1.60E-09	1990-WEGS
YSC004A	440140.3	3684946.1	287.5	71.3	72	3.10E-08	6.10E-07	1990-WEGS
YSC004A	440140.3	3684946.1	287.5	130.3	130.8		6.40E-07	1990-WEGS
YSC004A	440140.3	3684946.1	287.5	140	141.1		9.40E-10	1990-WEGS
YSC005A	440942.5	3684492.0	273	54	55	1.50E-08	5.70E-09	1990-WEGS
YSC005A	440942.5	3684492.0	273	136	137	5.60E-09	4.90E-07	1990-WEGS

Figure 1: Location of Laboratory Permeability Measurements Used in GSA Flow Model