

**Summary Report of Soil Sample Analyses to Support Installation of Crouch Branch
Monitoring Wells in A/M Area**

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Introduction

The A/M Area, an industrial area of the Savannah River Site, is a known source area for volatile organic contaminants. In an effort to track the movement of these contaminants in the subsurface, monitoring wells are installed. The soil samples collected and analyzed for this report were used to assist the field personnel in setting the screen zones of 8 wells installed from 3Q00 through 2Q01. These samples were collected in the Crouch Branch Aquifer, which was the aquifer the well screens were installed.

Task Description

Sample Collection Protocol

Samples for chemical data were collected on 5 foot intervals from approximately 250 ft depth to total depth (approximately 500 ft). Duplicates were collected of all samples and 10% analyzed. Samples were collected at 8 locations, identified in Table 1.

Sediment samples are collected by taking a 2 cc plug sample from the center of the core using a modified plastic syringe. The plug is transferred to a 22 ml vial containing 5 ml of nano-pure water and the vial is sealed with a crimped septum top for later head space analysis. All samples are stored at 4°C until analysis.

Analytical Protocol

Each soil plug sample is weighed and then analyzed on a gas chromatograph (GC) equipped with flame ionization detector (FID) and electron capture detector (ECD). Equilibrated headspace gas is sub-sampled and transferred to the GC using an automated head space sampler. Equivalent water concentrations are calculated using the appropriate detector (ECD for low concentrations, FID for high concentrations). Mass soil concentrations (ppb, µg/kg) are calculated based on an equal head space volume from 7.5 ml of water standards and approximately 7.5 ml of water/soil matrix and are corrected for the mass difference between soil and water. The gas chromatograph is calibrated using certified solvent mixtures in methanol diluted to specific concentrations. Standard concentrations used are 3, 5, 10, 50, 250, 500, and 1000 ppb (µg/l). The standards are analyzed TCE and PCE.

Soil Sample Results

Chemical analysis results for the 8 locations are presented in Table 2 through 9. All concentrations were well below DNAPL concentrations. The results of all samples from borings MSB-38, -86TA, -93TA, and -94TA were below detection limit of 1ppb TCE and 1 ppb PCE. Hits were recorded at depths of 255 and 260 ft below ground surface (bgs) for boring MSB-95 with maximum concentrations of 1 ppb TCE and 3 ppb PCE. Hits were recorded at depths of 225 to 380 ft bgs for boring MSB-52TA. The maximum concentrations were 6 ppb TCE at 330 ft bgs and 17 ppb PCE at 305 ft bgs. Hits were recorded at depths from 310 ft to 420 ft below ground surface (bgs) for boring MSB-42TA. The maximum concentrations were 154 ppb TCE at 395 ft bgs and 68 ppb PCE at 350 ft bgs. Hits were recorded at depths of 290 ft bgs and from 375 to 395 ft bgs for boring MSB-23. The maximum concentrations were 14 ppb TCE at 390 ft bgs and 2 ppb PCE at 290 ft bgs.

Table 1: Identification of Borings Sampled to Support Installation of Cretaceous Wells in A/M Area.
(Coordinates are preliminary.)

Boring / Well ID	Easting	Northing	Depth Interval Sampled
MSB23-TB	49035.50	104259.02	290 – 500 ft
MSB38-TB	49800.80	102445.21	265 – 475 ft
MSB42-TB	51581.51	104533.66	295 – 495 ft
MSB52-TA	53416.8	103062.7	225 – 445 ft
MSB86-TA	54560.5	108500.4	215 – 470 ft
MSB93-TA	39998	92649	230 – 500 ft
MSB94-TA	42714.37	89960.39	200 - 500 ft
MSB95-TA	48349.15	100822.34	255 – 500 ft

Table 2: Results of Soil Plug Samples Collected from Boring MSB23 (Well MSB-23TB)

ID	Depth (ft bgs)	Soil Conc.	
		TCE (ug/g)	PCE (ug/g)
MSB-23 01	290	<0.001	0.002
MSB-23 02	295	<0.001	<0.001
MSB-23 03	300	<0.001	<0.001
MSB-23 04	305	<0.001	<0.001
MSB-23 05	310	<0.001	<0.001
MSB-23 06	315	power failure, sample lost	
MSB-23 07	320	<0.001	<0.001
MSB-23 08	325	<0.001	<0.001
MSB-23 09	330	<0.001	<0.001
MSB-23 10	350	<0.001	<0.001
MSB-23 11	355	<0.001	<0.001
MSB-23 12	360	<0.001	<0.001
MSB-23 13	365	<0.001	<0.001
MSB-23 14	370	<0.001	<0.001
MSB-23 15	375	<0.001	0.001
MSB-23 16	380	0.002	<0.001
MSB-23 17	390	0.014	<0.001
MSB-23 18	395	0.005	<0.001
MSB-23 19	400	<0.001	<0.001
MSB-23 20	405	0.001	<0.001
MSB-23 21	410	0.001	<0.001
MSB-23 22	415	<0.001	<0.001
MSB-23 23	420	<0.001	<0.001
MSB-23 24	425	<0.001	<0.001
MSB-23 25	430	<0.001	<0.001
MSB-23 26	435	<0.001	<0.001
MSB-23 27	440	<0.001	<0.001
MSB-23 28	445	<0.001	<0.001
MSB-23 29	450	<0.001	<0.001
MSB-23 30	455	<0.001	<0.001
MSB-23 31	460	<0.001	<0.001
MSB-23 32	465	<0.001	<0.001
MSB-23 33	470	<0.001	<0.001
MSB-23 34	475	<0.001	<0.001
MSB-23 35	480	<0.001	<0.001
MSB-23 36	485	<0.001	<0.001
MSB-23 37	490	<0.001	<0.001
MSB-23 38	495	<0.001	<0.001
MSB-23 39	500	<0.001	<0.001

Table 3: Results of Soil Plug Samples Collected from Boring MSB38 (Well MSB-38TB)

ID	Depth (ft bgs)	Soil Conc.	
		TCE (ug/g)	PCE (ug/g)
MSB-38 01	265.0	<0.001	<0.001
MSB-38 02	267.5	<0.001	<0.001
MSB-38 03	270.0	<0.001	<0.001
MSB-38 04	275.0	<0.001	<0.001
MSB-38 05	280.0	<0.001	<0.001
MSB-38 06	285.0	<0.001	<0.001
MSB-38 07	290.0	<0.001	<0.001
MSB-38 08	295.0	<0.001	<0.001
MSB-38 09	300.0	<0.001	<0.001
MSB-38 10	305.0	<0.001	<0.001
MSB-38 11	310.0	<0.001	<0.001
MSB-38 12	315.0	<0.001	<0.001
MSB-38 13	320.0	<0.001	<0.001
MSB-38 14	325.0	<0.001	<0.001
MSB-38 15	330.0	<0.001	<0.001
MSB-38 16	335.0	<0.001	<0.001
MSB-38 17	340.0	<0.001	<0.001
MSB-38 18	345.0	<0.001	<0.001
MSB-38 19	350.0	<0.001	<0.001
MSB-38 20	355.0	<0.001	<0.001
MSB-38 21	360.0	<0.001	<0.001
MSB-38 22	365.0	<0.001	<0.001
MSB-38 23	370.0	<0.001	<0.001
MSB-38 24	375.0	<0.001	<0.001
MSB-38 25	380.0	<0.001	<0.001
MSB-38 26	385.0	<0.001	<0.001
MSB-38 27	390	<0.001	<0.001
MSB-38 28	395	<0.001	<0.001
MSB-38 29	400	<0.001	<0.001
MSB-38 30	405	<0.001	<0.001
MSB-38 31	410	<0.001	<0.001
MSB-38 32	415	<0.001	<0.001
MSB-38 33	420	<0.001	<0.001
MSB-38 34	425	<0.001	<0.001
MSB-38 35	430.0	<0.001	<0.001
MSB-38 36	435.0	<0.001	<0.001
MSB-38 37	440.0	<0.001	<0.001
MSB-38 38	445	Bad Sample	
MSB-38 39	447.5	<0.001	<0.001
MSB-38 40	450.0	<0.001	<0.001
MSB-38 41	455.0	<0.001	<0.001
MSB-38 42	460.0	<0.001	<0.001
MSB-38 43	465.0	<0.001	<0.001
MSB-38 44	470.0	<0.001	<0.001
MSB-38 45	475.0	<0.001	<0.001

Table 4: Results of Soil Plug Samples Collected from Boring MSB42 (Well MSB-42TB)

ID	Depth (ft bgs)	Soil Conc.	
		TCE (ug/g)	PCE (ug/g)
MSB-42 01	295.0	<0.001	<0.001
MSB-42 02	300.0	<0.001	<0.001
MSB-42 03	305.0	<0.001	<0.001
MSB-42 04	310.0	0.004	<0.001
MSB-42 05	315.0	0.019	0.005
MSB-42 06	320.0	0.032	0.016
MSB-42 07	325.0	0.033	0.013
MSB-42 08	330.0	0.013	0.008
MSB-42 09	335.0	0.008	0.010
MSB-42 10	340.0	0.010	0.012
MSB-42 11	345.0	0.072	0.045
MSB-42 12	350.0	0.100	0.068
MSB-42 13	355.0	0.055	0.026
MSB-42 14	360.0	0.065	0.017
MSB-42 15	365.0	0.035	0.006
MSB-42 16	370.0	<0.001	<0.001
MSB-42 17	375.0	<0.001	<0.001
MSB-42 18	380.0	0.100	0.003
MSB-42 19	385.0	0.063	0.005
MSB-42 20	390.0	0.083	0.004
MSB-42 21	395.0	0.154	0.013
MSB-42 22	400.0	0.099	0.006
MSB-42 23	405.0	0.048	0.002
MSB-42 24	410.0	0.020	<0.001
MSB-42 25	415.0	0.014	<0.001
MSB-42 26	420.0	0.002	<0.001
MSB-42 27	425.0	<0.001	<0.001
MSB-42 28	430.0	<0.001	<0.001
MSB-42 29	435.0	<0.001	<0.001
MSB-42 30	440.0	<0.001	<0.001
MSB-42 31	445.0	<0.001	<0.001
MSB-42 32	450.0	<0.001	<0.001
MSB-42 33	455.0	<0.001	<0.001
MSB-42 34	460.0	<0.001	<0.001
MSB-42 35	465.0	<0.001	<0.001
MSB-42 36	470.0	<0.001	<0.001
MSB-42 37	475.0	<0.001	<0.001
MSB-42 38	480.0	<0.001	<0.001
MSB-42 39	485.0	<0.001	<0.001
MSB-42 40	490.0	<0.001	<0.001
MSB-42 41	495.0	<0.001	<0.001

Table 5: Results of Soil Plug Samples Collected from Boring MSB52-TA (Well MSB-52TA)

ID	Depth (ft bgs)	Soil Conc.	
		TCE (ug/g)	PCE (ug/g)
MSB-52TA 01	225.0	0.001	0.001
MSB-52TA 02	230.0	<0.001	<0.001
MSB-52TA 03	235.0	<0.001	<0.001
MSB-52TA 04	240.0	<0.001	<0.001
MSB-52TA 05	245.0	<0.001	<0.001
MSB-52TA 06	250.0	<0.001	<0.001
MSB-52TA 07	255.0	<0.001	0.004
MSB-52TA 08	260.0	<0.001	0.003
MSB-52TA 09	265.0	<0.001	<0.001
MSB-52TA 10	267.5	bad sample	
MSB-52TA 11	270.0	<0.001	0.002
MSB-52TA 12	275.0	0.003	0.009
MSB-52TA 13	280.0	0.004	0.012
MSB-52TA 14	285.0	0.002	0.005
MSB-52TA 15	290.0	0.004	0.012
MSB-52TA 16	295.0	0.004	0.009
MSB-52TA 17	300.0	0.005	0.013
MSB-52TA 18	305.0	0.004	0.017
MSB-52TA 19	310.0	0.002	0.009
MSB-52TA 20	315.0	<0.001	<0.001
MSB-52TA 21	320.0	0.002	0.004
MSB-52TA 22	325.0	<0.001	0.001
MSB-52TA 23	330.0	0.006	0.012
MSB-52TA 24	335.0	0.005	0.009
MSB-52TA 25	340.0	0.002	0.001
MSB-52TA 26	345.0	0.005	0.005
MSB-52TA 27	350.0	0.003	0.002
MSB-52TA 28	355.0	0.001	<0.001
MSB-52TA 29	360.0	<0.001	<0.001
MSB-52TA 30	365.0	<0.001	<0.001
MSB-52TA 31	370.0	<0.001	<0.001
MSB-52TA 32	375.0	0.001	<0.001
MSB-52TA 33	380.0	0.002	0.001
MSB-52TA 34	385.0	<0.001	<0.001
MSB-52TA 35	390.0	<0.001	<0.001
MSB-52TA 36	395.0	<0.001	<0.001
MSB-52TA 37	400.0	<0.001	<0.001
MSB-52TA 38	405.0	<0.001	<0.001
MSB-52TA 39	410.0	<0.001	<0.001
MSB-52TA 40	420.0	<0.001	<0.001
MSB-52TA 41	420.0	<0.001	<0.001
MSB-52TA 42	425.0	<0.001	<0.001
MSB-52TA 43	430.0	<0.001	<0.001
MSB-52TA 44	435.0	<0.001	<0.001
MSB-52TA 45	440.0	<0.001	<0.001
MSB-52TA 46	445.0	<0.001	<0.001

Table 6: Results of Soil Plug Samples Collected from Boring MSB86-TA (Well MSB-86TA)

ID	Depth (ft bgs)	Soil Conc.	
		TCE (ug/g)	PCE (ug/g)
MSB-86TA	01	215	<0.001
MSB-86TA	02	220	<0.001
MSB-86TA	03	225	<0.001
MSB-86TA	04	230	<0.001
MSB-86TA	05	235	<0.001
MSB-86TA	06	240	<0.001
MSB-86TA	07	245	<0.001
MSB-86TA	08	250	<0.001
MSB-86TA	9	255	<0.001
MSB-86TA	10	260	<0.001
MSB-86TA	11	265	<0.001
MSB-86TA	12	270	<0.001
MSB-86TA	13	275	<0.001
MSB-86TA	14	280	<0.001
MSB-86TA	15	285	<0.001
MSB-86TA	16	290	<0.001
MSB-86TA	17	295	<0.001
MSB-86TA	18	300	<0.001
MSB-86TA	19	305	<0.001
MSB-86TA	20	310	<0.001
MSB-86TA	21	315	<0.001
MSB-86TA	22	320	<0.001
MSB-86TA	23	325	<0.001
MSB-86TA	24	330	<0.001
MSB-86TA	25	335	<0.001
MSB-86TA	26	340	<0.001
MSB-86TA	27	345	<0.001
MSB-86TA	28	350	<0.001
MSB-86TA	29	355	<0.001
MSB-86TA	30	360	<0.001
MSB-86TA	31	365	<0.001
MSB-86TA	32	370	<0.001
MSB-86TA	33	375	<0.001
MSB-86TA	34	380	<0.001
MSB-86TA	35	385	<0.001
MSB-86TA	36	385	<0.001
MSB-86TA	37	390	<0.001
MSB-86TA	38	395	<0.001
MSB-86TA	39	400	<0.001
MSB-86TA	40	405	<0.001
MSB-86TA	41	410	<0.001
MSB-86TA	42	415	<0.001
MSB-86TA	43	420	<0.001
MSB-86TA	44	425	<0.001
MSB-86TA	45	430	<0.001
MSB-86TA	46	435	<0.001

MSB-86TA	47	440	<0.001	<0.001
MSB-86TA	48	445	<0.001	<0.001
MSB-86TA	49	450	<0.001	<0.001
MSB-86TA	50	455	<0.001	<0.001
MSB-86TA	51	460	<0.001	<0.001
MSB-86TA	52	465	<0.001	<0.001
MSB-86TA	53	470	<0.001	<0.001

Table 7: Results of Soil Plug Samples Collected from Boring MSB93-TA (Well MSB-93TA)

ID	Depth (ft bgs)	Soil Conc.	
		TCE (ug/g)	PCE (ug/g)
MSB-93TA 01	230.0	<0.001	<0.001
MSB-93TA 02	235.0	<0.001	<0.001
MSB-93TA 03	240.0	<0.001	<0.001
MSB-93TA 04	245.0	<0.001	<0.001
MSB-93TA 05	255.0	<0.001	<0.001
MSB-93TA 06	260.0	<0.001	<0.001
MSB-93TA 07	265.0	<0.001	<0.001
MSB-93TA 08	270.0	<0.001	<0.001
MSB-93TA 09	275.0	<0.001	<0.001
MSB-93TA 10	280.0	<0.001	<0.001
MSB-93TA 11	284.0	<0.001	<0.001
MSB-93TA 12	287.0	<0.001	<0.001
MSB-93TA 13	295.0	<0.001	<0.001
MSB-93TA 14	300.0	<0.001	<0.001
MSB-93TA 15	305.0	<0.001	<0.001
MSB-93TA 16	310.0	<0.001	<0.001
MSB-93TA 17	315.0	<0.001	<0.001
MSB-93TA 18	325.0	<0.001	<0.001
MSB-93TA 19	330.0	<0.001	<0.001
MSB-93TA 20	335.0	<0.001	<0.001
MSB-93TA 21	340.0	<0.001	<0.001
MSB-93TA 22	345.0	<0.001	<0.001
MSB-93TA 23	350.0	<0.001	<0.001
MSB-93TA 24	355.0	<0.001	<0.001
MSB-93TA 25	360.0	<0.001	<0.001
MSB-93TA 26	365.0	<0.001	<0.001
MSB-93TA 27	370.0	<0.001	<0.001
MSB-93TA 28	375.0	<0.001	<0.001
MSB-93TA 29	380.0	<0.001	<0.001
MSB-93TA 30	384.5	<0.001	<0.001
MSB-93TA 31	390.0	<0.001	<0.001
MSB-93TA 32	395.0	<0.001	<0.001
MSB-93TA 33	400.0	<0.001	<0.001
MSB-93TA 34	405.0	<0.001	<0.001
MSB-93TA 35	408.5	<0.001	<0.001
MSB-93TA 36	415.0	<0.001	<0.001
MSB-93TA 37	420.0	<0.001	<0.001
MSB-93TA 38	425.0	<0.001	<0.001
MSB-93TA 39	430.0	<0.001	<0.001
MSB-93TA 40	435.0	<0.001	<0.001
MSB-93TA 41	440.0	<0.001	<0.001
MSB-93TA 42	450.0	<0.001	<0.001
MSB-93TA 43	455.0	<0.001	<0.001
MSB-93TA 44	460.0	<0.001	<0.001
MSB-93TA 45	465.0	<0.001	<0.001

MSB-93TA	46	470.0	<0.001	<0.001
MSB-93TA	47	475.0	<0.001	<0.001
MSB-93TA	48	480.0	<0.001	<0.001
MSB-93TA	49	485.0	<0.001	<0.001
MSB-93TA	50	490.0	<0.001	<0.001
MSB-93TA	51	495.0	<0.001	<0.001
MSB-93TA	52	500.0	<0.001	<0.001

Table 8: Results of Soil Plug Samples Collected from Boring MSB94-TA (Well MSB-94TA)

ID		Depth	Soil Conc.	
		(ft bgs)	TCE (ug/g)	PCE (ug/g)
MSB-94TA	01	200'	<0.001	<0.001
MSB-94TA	02	205'	<0.001	<0.001
MSB-94TA	03	211'	<0.001	<0.001
MSB-94TA	04	215'	<0.001	<0.001
MSB-94TA	05	220'	<0.001	<0.001
MSB-94TA	06	225'	<0.001	<0.001
MSB-94TA	07	226'	<0.001	<0.001
MSB-94TA	08	230'	<0.001	<0.001
MSB-94TA	09	233'	<0.001	<0.001
MSB-94TA	10	240'	<0.001	<0.001
MSB-94TA	11	245'	<0.001	<0.001
MSB-94TA	12	250'	<0.001	<0.001
MSB-94TA	13	255'	<0.001	<0.001
MSB-94TA	14	260'	<0.001	<0.001
MSB-94TA	15	265'	<0.001	<0.001
MSB-94TA	16	269'	<0.001	<0.001
MSB-94TA	17	275'	<0.001	<0.001
MSB-94TA	18	280'	<0.001	<0.001
MSB-94TA	19	285'	<0.001	<0.001
MSB-94TA	20	290'	<0.001	<0.001
MSB-94TA	21	295'	<0.001	<0.001
MSB-94TA	22	300'	<0.001	<0.001
MSB-94TA	23	305'	<0.001	<0.001
MSB-94TA	24	310'	<0.001	<0.001
MSB-94TA	25	315'	<0.001	<0.001
MSB-94TA	26	320'	<0.001	<0.001
MSB-94TA	27	325'	<0.001	<0.001
MSB-94TA	28	330'	<0.001	<0.001
MSB-94TA	29	335'	<0.001	<0.001
MSB-94TA	30	340'	<0.001	<0.001
MSB-94TA	31	345'	<0.001	<0.001
MSB-94TA	32	350'	<0.001	<0.001
MSB-94TA	33	355'	<0.001	<0.001
MSB-94TA	34	360'	<0.001	<0.001
MSB-94TA	35	365'	<0.001	<0.001
MSB-94TA	36	370'	<0.001	<0.001
MSB-94TA	37	375'	<0.001	<0.001
MSB-94TA	38	380'	<0.001	<0.001
MSB-94TA	39	385'	<0.001	<0.001
MSB-94TA	40	390'	<0.001	<0.001
MSB-94TA	41	395'	<0.001	<0.001
MSB-94TA	42	400'	<0.001	<0.001
MSB-94TA	43	405'	<0.001	<0.001
MSB-94TA	44	410'	<0.001	<0.001
MSB-94TA	45	415'	<0.001	<0.001

MSB-94TA	46	420'	<0.001	<0.001
MSB-94TA	47	430'	<0.001	<0.001
MSB-94TA	48	435'	<0.001	<0.001
MSB-94TA	49	440'	<0.001	<0.001
MSB-94TA	50	445'	<0.001	<0.001
MSB-94TA	51	450'	<0.001	<0.001
MSB-94TA	52	455'	<0.001	<0.001
MSB-94TA	53	460'	<0.001	<0.001
MSB-94TA	54	465'	<0.001	<0.001
MSB-94TA	55	470'	<0.001	<0.001
MSB-94TA	56	475'	<0.001	<0.001
MSB-94TA	57	480'	<0.001	<0.001
MSB-94TA	58	485'	<0.001	<0.001
MSB-94TA	59	490'	<0.001	<0.001
MSB-94TA	60	495'	<0.001	<0.001
MSB-94TA	61	500'	<0.001	<0.001

Table 9: Results of Soil Plug Samples Collected from Boring MSB-95 (Well MSB-95TA)

ID	Depth (ft bgs)	Soil Conc.	
		TCE (ug/g)	PCE (ug/g)
MSB-95 01	255.0	0.001	0.003
MSB-95 02	260.0	<0.001	0.002
MSB-95 03	265.0	<0.001	<0.001
MSB-95 04	270.0	<0.001	<0.001
MSB-95 05	275.0	Bad Sample	
MSB-95 06	280.0	<0.001	<0.001
MSB-95 07	285.0	<0.001	<0.001
MSB-95 08	290.0	<0.001	<0.001
MSB-95 09	295.0	<0.001	<0.001
MSB-95 10	300.0	<0.001	<0.001
MSB-95 11	305.0	<0.001	<0.001
MSB-95 12	310.0	<0.001	<0.001
MSB-95 13	315.0	<0.001	<0.001
MSB-95 14	320.0	<0.001	<0.001
MSB-95 15	325.0	<0.001	<0.001
MSB-95 16	330.0	Bad Sample	
MSB-95 17	335.0	<0.001	<0.001
MSB-95 18	340.0	<0.001	<0.001
MSB-95 19	345.0	<0.001	<0.001
MSB-95 20	350.0	<0.001	<0.001
MSB-95 21	355.0	<0.001	<0.001
MSB-95 22	360.0	<0.001	<0.001
MSB-95 23	365.0	<0.001	<0.001
MSB-95 24	370.0	<0.001	<0.001
MSB-95 25	375.0	<0.001	<0.001
MSB-95 26	380.0	<0.001	<0.001
MSB-95 27	385.0	<0.001	<0.001
MSB-95 28	390.0	<0.001	<0.001
MSB-95 29	395.0	<0.001	<0.001
MSB-95 30	400.0	<0.001	<0.001
MSB-95 31	405.0	<0.001	<0.001
MSB-95 32	410.0	<0.001	<0.001
MSB-95 33	415.0	<0.001	<0.001
MSB-95 34	420.0	<0.001	<0.001
MSB-95 35	425.0	<0.001	<0.001
MSB-95 36	430.0	<0.001	<0.001
MSB-95 37	435.0	<0.001	<0.001
MSB-95 38	440.0	<0.001	<0.001
MSB-95 39	445.0	<0.001	<0.001
MSB-95 40	450.0	<0.001	<0.001
MSB-95 41	455.0	<0.001	<0.001
MSB-95 42	460.0	<0.001	<0.001
MSB-95 43	465.0	<0.001	<0.001
MSB-95 44	470.0	<0.001	<0.001
MSB-95 45	475.0	<0.001	<0.001

MSB-95	46	480.0	<0.001	<0.001
MSB-95	47	485.0	<0.001	<0.001
MSB-95	48	490.0	<0.001	<0.001
MSB-95	49	495.0	<0.001	<0.001
MSB-95	50	500.0	<0.001	<0.001