COMMONWEALTH OF VIRGINIA

DEPARTMENT OF CONSERVATION
AND ECONOMIC DEVELOPMENT

DIVISION OF MINERAL RESOURCES

BOUGUER GRAVITY NORTHEASTERN VIRGINIA AND THE EASTERN SHORE PENINSULA

STANLEY S. JOHNSON

REPORT OF INVESTIGATIONS 32

VIRGINIA DIVISION OF MINERAL RESOURCES
James L. Calver
Commissioner of Mineral Resources and State Geologist

CHARLOTTESVILLE, VIRGINIA
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BOUGUER GRAVITY IN NORTHEASTERN VIRGINIA AND THE EASTERN SHORE PENINSULA

By

Stanley S. Johnson

ABSTRACT

An area of approximately 8800 square miles in Virginia from 78°00′ west longitude to the Chesapeake Bay and Potomac River north of 37°30′ north latitude, and the Eastern Shore Peninsula, was surveyed using gravimeter methods. A total of 2394 stations, such as bench mark, checked spot, and bridge elevations, were occupied. The reduced field data were computer-contoured. The survey area included parts of the Valley and Ridge, Blue Ridge, Piedmont, and Coastal Plain physiographic provinces. Precambrian and Paleozoic sedimentary, metamorphic, and igneous rocks are present west of the Fall Line. Cretaceous and Tertiary sand, gravel, and clay are present east of the Fall Line. Prominent northeasterly-trending gravity features are displayed throughout the survey area. Trends west of the Fall Line correlate with the regional geology. Broad, linear gravity highs and local gravity lows occur under the Cretaceous and Tertiary rocks in the Coastal Plain. Several gravity lows correlate closely with known and inferred Triassic units.

INTRODUCTION

The area of this gravity report consists of approximately 8800 square miles in Virginia between 78°00′ west longitude and the Chesapeake Bay and Potomac River and between 37°30′ north latitude and the Virginia-Maryland boundary, and also the Eastern Shore Peninsula. The gravity map of this report consists of Sheets 10, 11, 12, and 14 east of the report area of Johnson (1971) (Figure 1). The

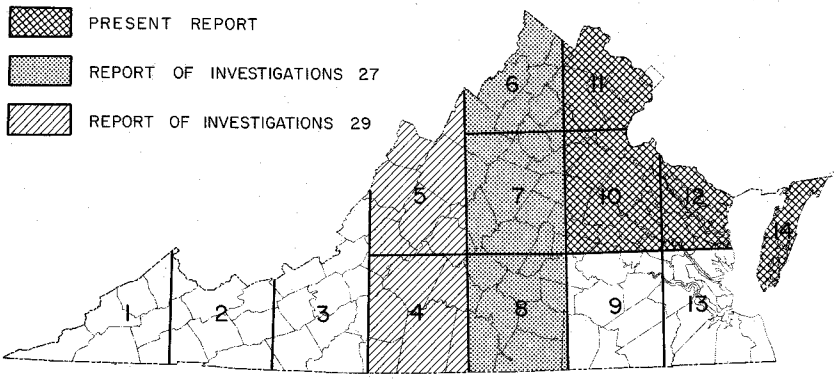

Figure 1. Location map showing area of investigation.

Eastern Shore data (Sheet 14) have been computer-contoured utilizing the same data points as shown on the gravity map that was compiled by Johnson and Sweet (1970). This earlier gravity map of Northampton and Accomack counties was hand-contoured with a two-milligal contour interval at a scale of slightly less than one inch to five miles.

The gravity maps are part of the Virginia Division of Mineral Resources' geophysical program to obtain data that will aid in the interpretation of the geologic framework of the State. Gravity methods are used predominantly in regional surveys to help determine the location of anomalous areas that may be further investigated by geological and other geophysical techniques. The variation in the earth's gravity field is caused by the latitude of the area, elevation, local terrain, earth tides, and rock density. The detail to which geologic features are determined depends in part on the number and distribution of gravity stations that are occupied in the field.

The contours (Sheets 10-12, 14) have been traced from those that were originally computer-contoured. A computer program that was written for the United States Air Force by Snowden (1970) was used to grid and contour the gravity data. Minor adjustments and smoothing procedures were followed in order to achieve matching of contours of adjacent maps and to remove minor angularities.

The writer appreciates the aid of members of the Virginia Division of Mineral Resources who contributed to the project. Larry W. Cooke occupied most of the stations in Sheet 11 during the summer of 1972. Appreciation is extended to the Gravity Surveys Branch, Defense Mapping Agency, Topographic Center, Washington, D. C., for the loan of LaCoste and Romberg gravity meter number 46.

INSTRUMENTATION AND PROCEDURES

Field observations were made utilizing two LaCoste and Romberg Model G geodetic gravity meters, numbers 46 and 77. These meters have a range of over 7000 milligals and a reading accuracy of ± 0.01 milligal. All observations were made utilizing a modified ladder-sequence loop technique. Each loop was opened and closed the same day from an established base station. Determinations of gravity were made at 2394 stations in the area covered by Sheets 10, 11, 12, and 14. Field observations were made on U. S. Geological Survey and U. S. Coast and Geodetic Survey bench marks that had been established by first- through third-order leveling. Approximately 17 percent of the observations were made at sites for which useful, checked-spot, and bridge elevations have been determined by the U. S. Geological Survey. A valid observation consisted of the average field value that was obtained from two or three consecutive readings; these observations had a maximum spread no greater than 0.01 milligal. Previously occupied stations in a loop were generally reoccupied every two hours during the survey. Stations were plotted on 7.5-minute-series topographic quadrangle maps. Established horizontal control was used for station coordinates where available; for all other stations, latitude and longitude were scaled from the topographic maps.

Twelve base stations were employed in the survey of Sheets 10, 11, and 12; three were used for Sheet 14. Loops originated and ended at stations in Ashland, Centreville, Charlottesville, Chesterfield, Fredericksburg, Front Royal, Gloucester, Lancaster, Leesburg, Tap-

pahannock, Williamsburg, and Winchester. The data given in Appendices I-IV are referenced to the base station values reported by Johnson and Ziegler (1972), except along the western edge of Sheets 10 and 11 where regional stations were computed earlier on the base values of Charlottesville, Front Royal, Winchester, and Fredericksburg before the final base net adjustment was complete. The differences between these stations after the network adjustment are: Charlottesville +0.042 mgal, Front Royal +0.081 mgal, Winchester +0.075 mgal, and Fredericksburg +0.081 mgal. Data reduction for Sheet 14 also used values for Eastville, Melfa, and Wallops base stations before the final adjustment. The data given in this report for the Eastern Shore are calculated on values of 979921.080, 979958.672, and 979972.328 milligals for the Eastville, Melfa, and Wallops base stations, respectively.

The computation and reduction of field data was done on a Burroughs 5500 and a CDC 6400 computer at the Computer Science Center, University of Virginia, Charlottesville, utilizing a modified GRAVAS program. This program is designed to reduce and correct field observations obtained with LaCoste and Romberg gravity meters and includes corrections for solar and lunar tides and instrument drift. A density of 2.67 g/cm^3 was used for computing the Bouguer values. Principal facts for each station contoured are listed in Appendices I-IV.

The base maps were prepared from 1° x 2° topographic quadrangles, 1:250,000-Army Map Service series. The maps and point plots were drawn using a Transverse Mercator projection. The map for Sheets 10, 11, 12, and 14 has been reduced approximately one inch in a north-south direction in order to join the adjacent maps on the west (Johnson, 1971, Sheets 6 and 7) which have a 1.5 percent scale error (76.5 ft./mi.). The conversion factor of 6.1237 miles/meter should have been 6.2137 miles/meter in the grid technique explained by Johnson, Huxsaw, and Thomas (1971). The points (+) depicted on the maps show the location of all field observations.

OBSERVATIONS

The survey was conducted over parts of the Valley and Ridge, Blue Ridge, Piedmont, and Coastal Plain physiographic provinces. The Valley and Ridge is underlain by Cambrian and Ordovician carbonates, shale, and sandstone; the Blue Ridge by late Precambrian and early Paleozoic igneous intrusive, metavolcanic, and metasedimentary rocks; and the Piedmont mainly by Precambrian and Paleozoic

metamorphic and igneous rocks. Some of the Piedmont is underlain by Triassic sedimentary units in down-faulted basins; these units have been intruded by igneous rocks as sills and dikes of Triassic age. The Coastal Plain "basement" is composed of igneous and metamorphic rocks similar to those in the Piedmont, and is covered by loose or partly consolidated sand, gravel, and clay of Cretaceous and Tertiary ages. Buried basins that contain Triassic rocks occur in the Coastal Plain.

Prominent northeasterly-trending gravity features are evident on Sheets 10, 11, and 12. Trends west of the Fall Line (Plate 1) correlate with the regional geology as shown on the geologic map of Virginia (Virginia Division of Mineral Resources, 1963). Trends east of the Fall Line reflect features that occur under the Coastal Plain sediments. Gravity contours of the Valley and Ridge, Blue Ridge, and Piedmont provinces (northwestern part of Sheet 11) indicate a steep, regional gradient to the northwest with local irregularities over Cambrian rocks and sharp local steepening of this gradient over the Catoctin and Marshall formations (Sheet 11; Figure 2, Profile B-B′). The volcanics causing the gradient over the eastern outcrop belt of the Catoctin Formation are interrupted by the fault forming the western edge of the Culpeper basin that contains Triassic rocks. This fault, lying east of the steep gradient and just west of Leesburg, has a south-southwesterly trend to the 12-milligal low about three miles east of Warrenton, then southwesterly to Culpeper (a town six miles southwest of Brandy). The eastern boundary of the Culpeper basin is less well defined; however, its approximate position and locations of the various rock types and their relationships to the gravity contours are indicated on Plate 1 (the generalized geological data for this figure is from Geologic Map of Virginia: Virginia Division of Mineral Resources, 1963). The closed gravity high southwest of Brandy is probably related to diabase intrusives (Figure 2, Profile C-C′).

The highest Bouguer values recorded thus far in Virginia were from north of Fairfax. These values are included in a trend from the State line south-southwesterly to Rhoadesville. The northern part of this trend occurs over rocks generally described as greenstone volcanics. The continuation of this trend south of Manassas may indicate that similar rocks continue into and under the eastern portion of the Culpeper basin (Plate 1; Figure 2, Profile B-B′). The closure northwest of Stafford occurs over quartz diorite and hornblende gabbro (Plate 1). Other trends tend to follow the regional strike and correlate

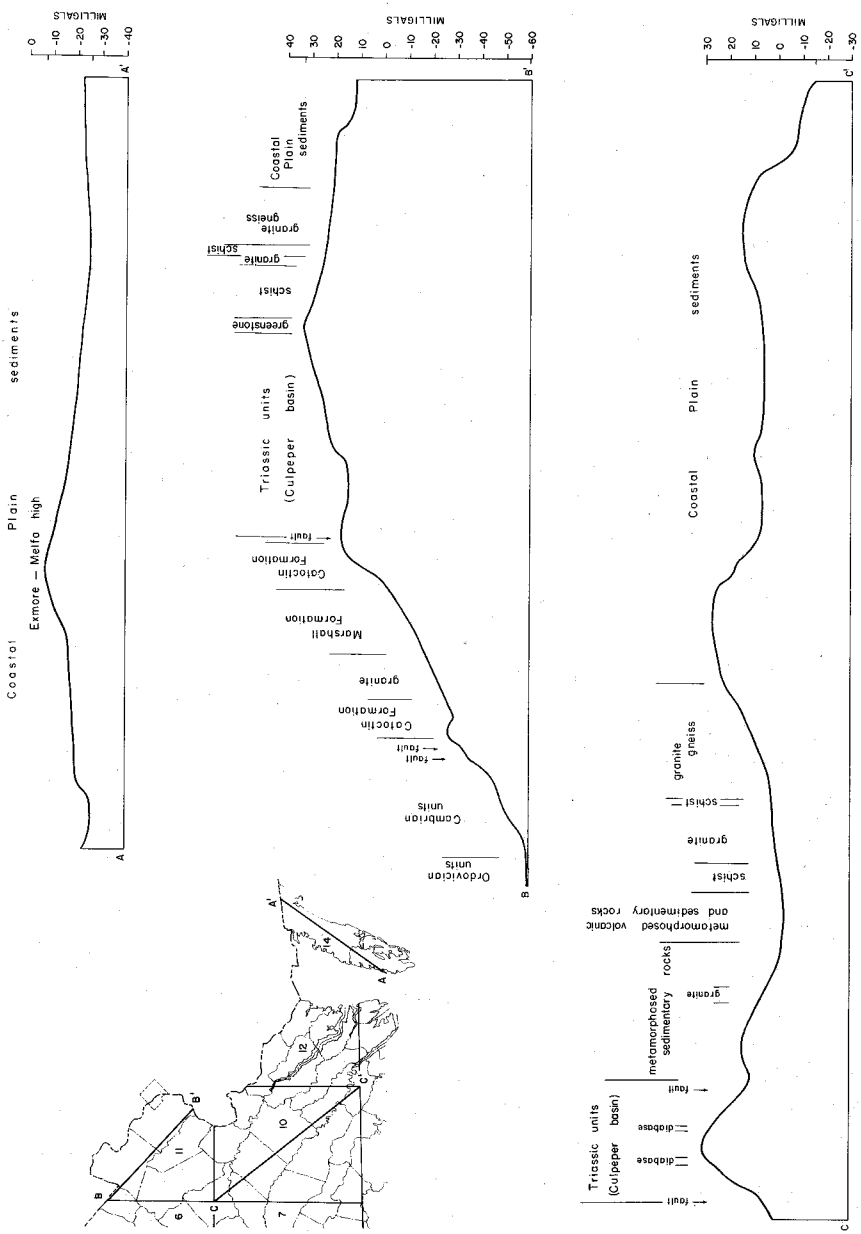

Figure 2. Gravity profiles across Sheets 10, 11, and 14.

in part with granite and granite gneiss, such as northwest of Mineral where a large granite body is located.

The gravity high outlined from Goochland to Fredericksburg on the northwest and Ashland to Port Royal on the southeast occurs over a granite gneiss unit as shown on the geologic map of Virginia (Virginia Division of Mineral Resources, 1963) (Plate 1; Figure 2, Profile C-C′). Triassic rocks occur in the Richmond basin at the southeast edge of this high and are also present north and northwest of Ashland.

Two petroleum tests have been drilled into rocks of the "basement". The Roberts Drilling Company No. 1 Hugh Townsend (W-457, Plate 1), which was drilled in 1961 to a total depth of 3278 feet, penetrated probable Triassic units and bottomed in igneous and metamorphic rocks. This well is located about three miles southwest of Manquin. The J & J Enterprises No. 1-G E. G. Taylor (W-3180), which was drilled in Accomack County on the Eastern Shore in 1971 to a total depth of 6272 feet, encountered Triassic units at 6070 feet and Paleozoic or Precambrian argillite of the "basement" at 6186 feet (Onuschak, 1972). The well is located about four miles southeast of Oak Hall. A water well at West Point (W-515) bottomed in Triassic rocks at a depth of 1689 feet. The J. S. C. Drilling Company No. 1 E. T. and Shirley Thompson (W-2252, petroleum test), located about three miles east of King George, penetrated rocks of probable Triassic age and was drilled to a total depth of 3307 feet; some olivine basalt was reported near the bottom of the hole. Wells drilled for water have encountered rocks of Triassic or probable Triassic age east and southeast of Richmond (W-2683, near Sandston; W-2071, west of Bottoms Bridge; W-3443, southwest of Byrd International Airport). In each area where Triassic rocks occur and in questionable areas, lower gravity values are present. Generally, the deepest wells that were drilled in the Coastal Plain for water purposes bottomed in rocks of Lower Cretaceous age. Lower Cretaceous strata range in elevation from 205 feet north of Fredericksburg to –1738 feet on the Eastern Shore. A water well approximately one mile west of Dahlgren (W-1306), nine miles northeast of King George, was drilled to 1050 feet; it encountered rocks of Lower Cretaceous age. This well is approximately seven miles northeast of the J. S. C. Drilling Company No. 1 E. T. and Shirley Thompson test. All of these wells are shown on Plate 1 except W-3180 and W-3443.

The broad, linear gravity high trending southwesterly from Montross and south of Manquin is probably due to high-density mafic rocks.

An aeromagnetic survey (U. S. Geological Survey, 1972) shows a north-northeasterly trending magnetic anomaly over the same area. Values greater than 4500 gammas are noted; these can be contrasted to adjacent areas having lower values in the range of 3600 to 3800 gammas. This high gravity and high magnetic trend is different from the one previously mentioned that occurs west and north of Richmond. Aeromagnetic data (Virginia Division of Mineral Resources, 1971a, b) over the gravity high in this area indicates that the granite gneiss and granodiorite gneiss is magnetically high on the peripheral edges, but becomes lower toward the center of the unit. This lower magnetic field may be attributed to different lithologies in the rock body.

Available gravity data indicate that the gradual increase in the gravity field from an area southeast of Oak Hall (note the J & J Enterprises No. 1-G E. G. Taylor well) to the Exmore-Melfa area is probably a reflection of basement relief. The Exmore-Melfa gravity high (Figure 2, Profile A-A′) has good correlation with recent aeromagnetic data (U. S. Geological Survey, 1972). A maximum magnetic value of 3869 gammas is noted over this feature; this can be contrasted with values of less than 3600 gammas on the north, and less than 3700 gammas on the south. The Exmore-Melfa high is probably due to a lithologic change (mafic intrusive?) in the basement. South of Exmore, the steeper gravity gradients may indicate changes in basement relief, intrasediment changes, intrabasement lithologic variations, or some combination of these.

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_____ 1971a, Aeromagnetic contour map of the Fredericks Hall quadrangle, Virginia: Open-file, Virginia Division of Mineral Resources.

_____ 1971b, Aeromagnetic contour map of the Powhatan quadrangle, Virginia: Open-file, Virginia Division of Mineral Resources.

APPENDIX I: PRINCIPAL FACTS FOR POINTS IN SHEET 10

Station Number	Latitude	Longitude	Elevation	Observed Gravity	Free Air Gravity	Bouguer Gravity
125-A-1	37 43.48	-77 5.42	177.38	979985.244	21.91	15.86
125-A-2	37 43.02	-77 4.35	163.74	979983.501	19.56	13.98
125-A-3	37 42.72	-77 3.60	158.85	979978.879	14.92	9.50
125-A-4	37 41.72	-77 2.08	145.95	979963.146	-.58	-5.55
125-A-5	37 42.10	-77 2.05	137.38	979965.581	.50	-4.19
125-A-6	37 43.63	-77 1.30	18.68	979982.432	3.95	3.31
125-A-7	37 41.53	-77 1.68	131.18	979961.664	-3.18	-7.06
125-A-8	37 41.28	-77 .80	142.44	979958.050	-5.37	-10.23
125-A-9	37 40.80	-77 .35	134.60	979956.673	-6.78	-11.37
125-A-10	37 39.77	-77 .12	127.59	979954.065	-8.55	-12.90
125-A-11	37 38.65	-77 3.32	88.43	979959.842	-4.83	-7.85
125-A-12	37 38.00	-77 2.83	101.23	979955.691	-6.83	-10.29
125-A-13SE1	37 40.78	-77 3.50	136.00	979968.957	5.66	1.02
125-A-14	37 41.90	-77 6.28	146.56	979984.515	20.58	15.58
125-A-15	37 40.98	-77 6.40	126.30	979983.400	18.90	14.59
125-A-16	37 39.83	-77 5.98	106.73	979979.654	14.98	11.34
125-A-17	37 39.10	-77 5.48	96.32	979976.349	11.76	8.48
125-B-1	37 44.62	-77 7.90	168.07	979989.769	23.91	18.18
125-B-2	37 44.53	-77 10.90	180.77	979977.955	13.41	7.25
125-B-3	37 44.68	-77 12.18	158.79	979978.551	11.72	6.31
125-B-4	37 44.78	-77 13.43	165.71	979977.817	11.49	5.84
125-B-5	37 43.90	-77 14.03	121.89	979978.296	9.14	4.98
125-B-6SE1	37 43.25	-77 9.63	146.66	979982.069	16.18	11.18
125-B-7	37 42.53	-77 9.28	76.11	979987.812	16.33	13.74
125-B-8SE2	37 42.58	-77 11.52	55.00	979982.403	8.87	6.99
125-B-9SE3	37 41.25	-77 9.40	41.00	979989.282	16.37	14.97
125-B-10SE4	37 41.07	-77 14.78	45.00	979976.832	4.56	3.03
125-B-11SE5	37 40.48	-77 12.78	44.00	979978.017	6.50	5.00
125-B-12	37 38.67	-77 13.28	170.72	979967.872	10.91	5.09
125-B-13	37 38.62	-77 12.97	174.38	979968.111	11.57	5.62
125-B-14	37 38.63	-77 12.13	172.56	979969.661	12.93	7.04
125-B-15	37 38.23	-77 11.43	162.24	979972.008	14.88	9.35
125-B-16	37 37.82	-77 10.65	142.10	979975.705	17.29	12.44
125-B-17	37 37.60	-77 8.65	137.98	979978.840	20.35	15.65
125-C-1	37 32.08	-77 9.02	156.67	979972.763	24.05	18.70
125-C-2	37 32.50	-77 10.00	129.71	979976.459	24.60	20.18
125-C-3	37 31.43	-77 8.87	154.38	979971.578	23.59	18.33
125-C-4	37 30.78	-77 8.58	128.45	979972.548	23.07	18.69
125-C-5	37 31.98	-77 8.00	134.79	979971.158	20.53	15.93
125-C-6SE1	37 36.75	-77 7.83	42.00	979983.441	17.16	15.73
125-C-7	37 35.25	-77 7.85	148.10	979974.599	20.48	15.43
125-C-8	37 35.47	-77 8.70	145.18	979977.724	23.01	18.06
125-C-9	37 36.10	-77 10.70	155.10	979975.928	21.23	15.94
125-C-10	37 30.88	-77 12.37	58.94	979980.385	24.22	22.21
125-C-11	37 30.70	-77 13.68	149.20	979971.548	24.14	19.05
125-C-12	37 30.48	-77 14.55	135.08	979970.740	22.32	17.71
125-C-13	37 30.72	-77 15.00	106.29	979971.995	20.53	16.90
125-C-14	37 31.32	-77 14.55	97.83	979973.263	20.13	16.79
125-C-15	37 32.70	-77 12.92	151.06	979972.478	22.34	17.19
125-C-16	37 33.10	-77 14.55	84.85	979974.260	17.31	14.42
125-C-17	37 34.13	-77 14.58	180.57	979967.409	17.97	11.81
125-C-18	37 34.68	-77 13.98	154.71	979969.883	17.21	11.93
125-C-19	37 37.32	-77 13.48	159.21	979968.236	12.16	6.73
125-D-1	37 36.40	-77 .43	50.01	979952.529	-12.49	-14.19
125-D-2	37 31.97	-77 6.95	161.58	979966.715	18.63	13.12
125-D-3	37 31.77	-77 5.83	146.46	979964.547	15.33	10.34
125-D-4	37 31.43	-77 3.28	100.35	979953.737	.67	-2.75
125-D-5SE1	37 30.50	-77 1.48	126.00	979943.341	-5.96	-10.26
125-D-6	37 32.45	-77 .72	26.31	979948.297	-13.21	-14.11

* Denotes elevation in meters

BR Denotes bridge elevation

SE Denotes checked spot elevation

Station Number	Latitude	Longitude	Elevation	Observed Gravity	Free Air Gravity	Bouguer Gravity
125-D-7	37 34.12	-77 2.43	32.89	979957.191	-6.12	-7.24
125-D-8	37 34.62	-77 3.32	40.16	979960.662	-2.69	-4.06
125-D-9	37 34.38	-77 5.70	34.71	979975.025	11.50	10.31
125-D-10	37 35.05	-77 6.58	148.33	979970.741	16.93	11.87
126-A-1	37 44.38	-77 20.35	58.15	979980.708	4.85	2.87
126-A-2	37 43.30	-77 18.37	30.95	979982.848	6.01	4.95
126-A-3	37 42.88	-77 17.38	35.79	979983.225	7.44	6.22
126-A-4	37 44.18	-77 16.17	102.40	979979.698	8.29	4.80
126-A-5	37 44.90	-77 15.30	144.05	979978.014	9.48	4.57
126-A-6SE1	37 41.97	-77 15.77	84.00	979975.229	5.32	2.45
126-A-7	37 40.55	-77 17.52	176.54	979967.960	8.81	2.79
126-A-8SE2	37 39.73	-77 15.48	48.00	979975.827	5.78	4.14
126-A-9SE3	37 43.20	-77 21.85	189.00	979971.162	9.33	2.89
126-A-10	37 40.52	-77 21.08	189.75	979966.239	8.38	1.91
126-A-11	37 40.65	-77 19.70	180.76	979966.793	7.90	1.73
126-A-12SE4	37 38.22	-77 20.20	189.00	979963.417	8.83	2.39
126-A-13	37 37.67	-77 17.75	186.12	979963.450	9.39	3.05
126-A-14SE5	37 39.15	-77 17.42	178.00	979965.707	8.73	2.66
126-B-1	37 44.60	-77 28.28	206.39	979975.153	12.92	5.88
126-B-2	37 44.05	-77 28.28	211.59	979974.761	13.82	6.60
126-B-3	37 43.35	-77 28.22	210.41	979973.542	13.51	6.33
126-B-4	37 42.92	-77 28.10	208.77	979972.939	13.38	6.26
126-B-5	37 41.37	-77 27.78	181.03	979968.260	8.35	2.17
126-B-6	37 40.53	-77 27.67	138.72	979969.442	6.76	2.03
126-B-7	37 39.75	-77 27.65	200.17	979962.896	7.13	0.31
126-B-8	37 44.87	-77 29.98	234.51	979973.001	13.03	5.03
126-B-9	37 42.68	-77 29.58	218.68	979970.204	11.92	4.46
126-B-10	37 42.12	-77 28.92	210.32	979969.797	11.55	4.37
126-B-11	37 41.27	-77 29.98	216.05	979967.227	10.75	3.38
126-B-12SE1	37 38.53	-77 29.67	212.00	979960.607	7.73	0.49
126-B-13	37 42.97	-77 27.18	203.76	979972.315	12.21	5.26
126-B-14SE2	37 44.40	-77 25.07	196.00	979975.297	12.38	5.69
126-B-15	37 43.35	-77 22.53	188.52	979972.021	9.93	3.50
126-B-16	37 42.13	-77 23.10	158.71	979971.783	8.65	3.24
126-B-17	37 40.63	-77 22.87	192.33	979965.607	7.82	1.26
126-B-18	37 39.05	-77 23.98	197.12	979960.978	5.95	-0.78
126-B-19	37 38.07	-77 25.82	191.93	979959.748	5.66	-0.89
126-B-20SE3	37 40.08	-77 25.08	198.00	979963.185	6.73	-0.02
126-C-1	37 35.73	-77 27.95	189.65	979956.672	5.76	-.71
126-C-2	37 33.77	-77 28.20	199.39	979953.483	6.34	-.46
126-C-3	37 32.48	-77 25.18	128.81	979960.760	8.84	4.45
126-C-4SE1	37 31.08	-77 22.67	165.00	979955.991	9.51	3.88
126-C-5	37 31.57	-77 26.17	25.00	979964.061	3.71	2.86
126-C-6SE2	37 37.43	-77 23.37	179.00	979961.309	6.92	.82
126-D-1 BASE	37 30.47	-77 19.95	172.01	979952.350	7.42	1.55
126-D-2SE1	37 36.70	-77 20.37	173.00	979962.310	8.43	2.52
126-D-3	37 35.38	-77 18.97	176.14	979961.535	9.86	3.85
126-D-4	37 36.43	-77 17.20	185.80	979962.554	10.26	3.92
126-D-5	37 36.02	-77 15.30	189.04	979964.317	12.93	6.49
126-D-6	37 34.60	-77 16.42	172.28	979962.749	11.85	5.97
126-D-7	37 34.62	-77 20.03	82.27	979966.492	7.10	4.29
126-D-8	37 33.97	-77 21.57	187.93	979958.252	9.74	3.33
126-D-9	37 31.10	-77 21.65	160.53	979955.301	8.38	2.90
126-D-10SE2	37 32.12	-77 18.48	163.00	979957.891	9.72	4.16
126-D-11	37 31.22	-77 17.07	160.20	979962.674	15.55	10.09
126-D-12SE3	37 33.18	-77 16.18	65.00	979971.487	12.55	10.34
127-A-1	37 44.67	-77 32.62	274.25	979975.071	19.13	9.77
127-A-2	37 43.92	-77 35.23	293.09	979977.876	24.79	14.80
127-A-3SE1	37 42.52	-77 35.75	261.00	979975.785	21.72	12.82
127-A-4	37 40.72	-77 35.17	253.21	979967.982	15.80	7.17
127-A-5	37 40.40	-77 33.27	254.40	979963.563	11.96	3.28
127-A-6	37 40.67	-77 31.95	224.68	979964.722	9.93	2.27
127-A-7SE2	37 42.52	-77 31.70	260.00	979966.642	12.48	3.62
127-A-8SE3	37 42.78	-77 30.47	257.00	979966.900	12.07	3.31
127-A-9	37 42.47	-77 33.42	278.45	979969.167	16.82	7.32
127-A-10	37 38.08	-77 32.75	317.73	979952.926	10.64	-0.19
127-A-11	37 38.97	-77 36.15	283.52	979961.935	15.15	5.48

Station Number	Latitude	Longitude	Elevation	Observed Gravity	Free Air Gravity	Bouguer Gravity
127-A-12	37 37.95	-77 36.83	272.14	979960.649	14.27	4.99
127-A-13	37 38.80	-77 35.62	292.39	979958.747	13.04	3.07
127-A-14	37 38.45	-77 33.68	267.63	979958.024	10.50	1.37
127-B-1	37 44.45	-77 37.57	239.63	979991.084	32.20	24.02
127-B-2	37 42.58	-77 38.22	269.16	979983.188	29.79	20.61
127-B-3	37 43.53	-77 40.73	303.51	979984.416	32.87	22.52
127-B-4	37 43.98	-77 42.08	286.15	979983.889	30.06	20.30
127-B-5	37 43.18	-77 43.88	315.07	979977.406	27.46	16.71
127-B-6SE1	37 41.77	-77 41.02	290.00	979984.080	33.83	23.94
127-B-7	37 40.07	-77 40.37	229.54	979980.791	27.33	19.50
127-B-8	37 39.53	-77 38.03	238.68	979970.673	18.85	10.71
127-B-9	37 38.97	-77 38.33	242.24	979969.254	18.59	10.33
127-B-10	37 37.93	-77 40.77	195.25	979976.356	22.77	16.11
127-B-11	37 40.07	-77 41.60	285.63	979981.517	33.33	23.59
127-B-12	37 41.10	-77 44.27	344.44	979974.514	30.36	18.61
127-B-13	37 40.62	-77 43.05	285.46	979980.649	31.65	21.91
127-B-14	37 40.42	-77 42.07	268.25	979983.847	33.52	24.37
127-B-15SE2	37 38.75	-77 43.05	294.00	979978.172	32.69	22.66
127-C-1SE1	37 36.75	-77 44.17	239.00	979978.490	30.74	22.59
127-C-2SE2	37 36.05	-77 41.13	231.00	979967.729	20.24	12.37
127-C-3SE3	37 35.97	-77 39.58	168.00	979967.145	13.86	8.13
127-C-4SE4	37 34.98	-77 44.67	211.00	979974.820	27.00	19.81
127-C-5	37 33.77	-77 42.10	219.91	979963.288	18.08	10.58
127-C-6SE5	37 32.13	-77 42.12	226.00	979958.190	15.92	8.22
127-C-7	37 30.58	-77 42.67	403.16	979943.949	20.60	6.85
127-C-8	37 30.35	-77 39.73	363.64	979940.795	14.06	1.66
127-C-9	37 32.18	-77 38.18	372.40	979942.405	13.84	1.14
127-C-10	37 33.23	-77 39.80	151.64	979960.872	10.01	4.84
127-C-11SE6	37 30.90	-77 44.52	417.00	979948.752	26.24	12.02
127-D-1	37 30.20	-77 30.80	224.48	979947.393	7.79	.13
127-D-2	37 31.37	-77 33.68	263.31	979945.909	8.26	-.72
127-D-3	37 30.30	-77 36.55	356.00	979939.670	12.29	.15
127-D-4	37 34.15	-77 31.37	255.76	979948.956	6.56	-2.16
127-D-5	37 35.63	-77 31.95	308.89	979948.257	8.70	-1.83
127-D-6	37 35.00	-77 36.23	209.95	979956.555	8.62	1.46
127-D-7	37 33.45	-77 32.72	143.83	979955.744	3.84	-1.07
128-A-1	37 42.93	-77 46.42	346.45	979973.504	26.87	15.05
128-A-2	37 42.10	-77 46.85	335.99	979974.631	28.23	16.77
128-A-3	37 41.77	-77 46.02	414.09	979968.745	30.17	16.05
128-A-4	37 41.63	-77 45.62	381.93	979970.733	29.33	16.30
128-A-5SE1	37 40.37	-77 47.70	339.00	979973.103	29.50	17.94
128-A-6SE2	37 38.62	-77 45.40	298.00	979976.261	31.35	21.18
128-A-7	37 42.58	-77 48.32	312.76	979977.984	28.69	18.02
128-A-8	37 43.32	-77 49.72	298.04	979980.421	28.68	18.51
128-A-9	37 43.90	-77 50.27	316.04	979979.174	28.28	17.50
128-A-10	37 44.42	-77 50.72	320.31	979979.245	28.56	17.43
128-A-11SE3	37 41.92	-77 51.53	322.00	979977.597	30.14	19.16
128-A-12	37 39.05	-77 51.72	158.27	979984.386	25.70	20.30
128-A-13	37 38.55	-77 49.75	142.31	979981.310	21.85	17.00
128-A-14SE4	37 40.75	-77 49.42	257.00	979979.900	28.03	19.26
128-B-1	37 43.60	-77 53.42	322.35	979975.872	26.00	15.01
128-B-2	37 41.58	-77 55.43	161.32	979982.008	19.93	14.42
128-B-3	37 44.25	-77 57.40	185.84	979978.494	14.84	8.50
128-B-4	37 44.90	-77 59.33	357.16	979966.987	18.50	6.32
128-B-5	37 43.38	-77 59.28	321.79	979968.363	18.76	7.78
128-B-6	37 40.12	-77 53.17	163.37	979983.813	24.06	18.48
128-B-7	37 38.35	-77 54.17	309.23	979973.390	29.92	19.37
128-B-8SE1	37 43.73	-77 55.95	311.00	979972.324	21.19	10.59
128-B-9SE2	37 42.35	-77 56.83	262.00	979973.887	20.16	11.22
128-B-10	37 40.58	-77 57.12	166.40	979979.698	19.55	13.87
128-B-11SE3	37 40.28	-77 59.57	300.00	979968.623	21.48	11.24
128-B-12SE4	37 37.87	-77 55.57	325.00	979970.455	29.17	18.09
128-B-13SE5	37 39.53	-77 55.22	262.00	979975.771	26.14	17.20
128-B-14	37 38.63	-77 57.13	175.81	979979.011	22.58	16.58
128-B-15SE6	37 38.02	-77 58.53	323.00	979968.320	26.63	15.61
128-C-1	37 36.83	-77 52.52	293.96	979973.905	31.20	21.18
128-C-2	37 36.48	-77 54.85	350.49	979969.385	32.51	20.56

Station Number	Latitude	Longitude	Elevation	Observed Gravity	Free Air Gravity	Bouguer Gravity
128-C-3	37 36.72	-77 57.00	288.44	979971.291	28.24	18.40
128-C-4	37 36.32	-77 59.00	280.12	979970.431	27.18	17.62
128-C-5	37 33.88	-77 58.17	333.87	979967.029	32.37	20.98
128-C-6	37 33.13	-77 55.93	388.43	979964.385	35.94	22.70
128-C-7	37 34.43	-77 56.42	365.84	979966.380	33.93	21.45
128-C-8	37 32.43	-77 56.88	372.71	979964.518	35.62	22.90
128-C-9	37 31.30	-77 58.22	367.27	979962.981	35.21	22.69
128-C-10	37 31.17	-77 57.68	371.26	979962.950	35.75	23.09
128-C-11	37 32.48	-77 55.15	377.04	979964.662	36.09	23.24
128-C-12	37 32.10	-77 53.62	398.09	979962.412	36.38	22.80
128-C-13	37 30.42	-77 52.98	256.46	979968.673	31.77	23.02
128-C-14	37 33.55	-77 52.95	365.30	979965.828	34.61	22.15
128-C-15	37 33.95	-77 59.82	247.25	979970.272	27.37	18.93
128-D-1	37 36.35	-77 50.97	305.02	979970.109	29.15	18.75
128-D-2	37 35.87	-77 49.18	175.15	979973.896	21.43	15.45
128-D-3	37 35.78	-77 47.15	294.42	979971.643	30.51	20.47
128-D-4	37 31.33	-77 48.27	448.00	979955.021	34.80	19.52
128-D-5	37 31.45	-77 48.22	461.00	979954.299	35.13	19.41
128-D-6	37 30.55	-77 46.82	349.85	979959.584	31.27	19.33
128-D-7	37 33.65	-77 48.03	336.14	979963.708	29.60	18.13
128-D-8	37 34.27	-77 46.57	300.32	979969.337	30.96	20.72
128-D-9SE1	37 32.52	-77 47.83	418.00	979958.692	33.93	19.67
128-D-10SE2	37 30.67	-77 50.68	354.00	979961.282	33.19	21.11
128-D-11SE3	37 33.08	-77 50.75	374.00	979961.328	31.60	18.85
128-D-12SE4	37 35.02	-77 49.85	278.00	979966.851	25.29	15.81
148-A-1	37 52.85	-77 4.95	163.53	980001.291	23.02	17.44
148-A-2	37 52.50	-77 3.67	182.20	980005.232	29.23	23.01
148-A-3	37 54.13	-77 2.02	175.21	980008.138	29.09	23.12
148-A-4	37 54.98	-77 6.32	185.83	979994.769	15.49	9.15
148-A-5SE1	37 54.62	-77 4.45	168.00	979999.824	19.40	13.67
148-A-6	37 56.20	-77 5.53	184.93	979995.367	14.23	7.92
148-A-7	37 57.25	-77 4.22	186.32	979996.424	13.88	7.53
148-A-8SE2	37 56.78	-77 .50	158.00	980008.432	23.91	18.52
148-A-9	37 59.47	-77 .32	158.89	980003.677	15.32	9.90
148-A-10	37 58.50	-77 4.22	189.36	979995.552	11.47	5.02
148-A-11	37 59.63	-77 4.42	188.49	979995.184	9.37	2.94
148-A-12	37 58.43	-77 5.38	160.54	979996.605	9.91	4.44
148-B-1SE1	37 52.77	-77 13.25	185.00	979996.479	14.35	8.04
148-B-2SE2	37 55.55	-77 13.85	186.00	979993.040	12.95	6.60
148-B-3SE3	37 54.85	-77 11.70	98.00	979998.859	11.51	8.17
148-B-4	37 54.80	-77 7.70	182.39	979994.470	15.13	8.91
148-B-5	37 52.83	-77 8.67	64.25	980001.712	14.12	11.93
148-B-6SE4	37 56.45	-77 7.88	185.00	979994.679	13.18	6.87
148-B-7	37 57.85	-77 8.43	166.08	979996.299	10.98	5.32
148-B-8	37 56.80	-77 11.48	165.36	979994.675	10.82	5.18
148-B-9	37 59.50	-77 13.78	173.74	979997.416	10.41	4.49
148-B-10	37 59.48	-77 11.77	188.32	979994.265	8.66	2.23
148-B-11SE5	37 59.37	-77 9.85	187.00	979994.177	8.61	2.24
148-B-12SE6	37 59.33	-77 7.90	184.00	979994.852	9.06	2.78
148-C-1	37 47.48	-77 12.78	188.45	979984.548	16.43	10.01
148-C-2	37 47.67	-77 8.87	163.19	979988.510	17.75	12.19
148-C-3	37 48.68	-77 7.78	53.92	980000.893	18.38	16.54
148-C-4SE1	37 45.68	-77 8.87	151.00	979986.867	17.85	12.70
148-C-5	37 48.60	-77 11.93	192.89	979986.523	17.20	10.62
148-C-6	37 49.57	-77 13.33	166.18	979990.667	17.42	11.76
148-C-7	37 50.93	-77 12.40	92.44	979997.512	15.34	12.19
148-C-8	37 51.25	-77 10.60	165.03	979992.893	17.09	11.46
148-C-9	37 52.00	-77 14.83	184.00	979989.381	14.27	8.00
148-C-10SE2	37 50.17	-77 10.10	54.00	979998.686	14.02	12.18
148-C-11	37 51.58	-77 7.55	48.64	980002.964	15.73	14.07
148-D-1	37 47.18	-77 6.25	24.91	980006.819	23.76	22.91
148-D-2	37 48.08	-77 3.30	190.69	979999.865	31.09	24.59
148-D-3SE1	37 46.43	-77 3.02	139.00	979994.078	22.84	18.10
146-D-4SE2	37 45.73	-77 5.60	38.00	980003.260	23.54	22.24
148-D-5SE3	37 46.42	-77 .45	148.00	979988.027	17.66	12.61
148-D-6	37 48.18	-77 .58	95.49	980000.104	22.23	18.97
148-D-7SE4	37 50.42	-77 1.72	174.00	980008.102	34.36	28.42

Station Number	Latitude	Longitude	Elevation	Observed Gravity	Free Air Gravity	Bouguer Gravity
148-D-8SE5	37 52.48	-77 .72	160.00	980012.009	33.94	28.48
148-D-9SE6	37 50.08	-77 4.88	154.00	980006.527	31.39	26.13
148-D-10	37 52.00	-77 6.05	175.05	979998.134	22.18	16.21
149-A-1	37 59.93	-77 19.28	203.06	979999.549	14.67	7.74
149-A-2	37 59.28	-77 18.32	201.03	979995.652	11.53	4.67
149-A-3	37 59.25	-77 16.22	192.85	979994.296	9.45	2.88
149-A-4	37 59.32	-77 15.28	194.88	979994.643	9.89	3.25
149-A-5	37 59.45	-77 19.23	198.81	979998.308	13.73	6.95
149-A-6	37 58.67	-77 19.47	206.97	979995.868	13.20	6.14
149-A-7	37 57.27	-77 18.68	194.86	979992.368	10.61	3.96
149-A-8	37 55.83	-77 17.50	193.79	979992.161	12.39	5.78
149-A-9	37 57.43	-77 16.70	180.50	979994.382	11.03	4.87
149-A-10	37 58.78	-77 15.25	190.55	979995.596	11.22	4.72
149-A-11SE1	37 53.92	-77 21.17	228.00	979986.593	12.83	5.05
149-A-12	37 56.12	-77 21.97	203.60	979993.291	14.03	7.08
149-A-13	37 57.82	-77 20.58	80.08	980004.287	10.93	8.20
149-A-14	37 54.38	-77 18.68	83.26	979998.012	9.95	7.11
149-A-15SE2	37 53.77	-77 17.80	80.33	980000.326	12.89	10.15
149-A-16	37 52.58	-77 17.12	192.26	979991.757	16.58	10.02
149-A-17	37 57.75	-77 21.47	92.49	980005.557	13.46	10.31
149-A-18	37 58.77	-77 21.83	91.78	980010.567	16.92	13.79
149-B-1	37 53.17	-77 27.93	82.95	980007.811	21.50	18.67
149-B-2	37 53.70	-77 28.65	87.58	980010.378	23.72	20.74
149-B-3	37 55.78	-77 28.85	244.41	980008.809	33.87	25.53
149-B-4	37 56.42	-77 28.93	189.70	980013.575	32.57	26.10
149-B-5	37 57.07	-77 29.12	195.66	980013.769	32.37	25.70
149-B-6	37 57.97	-77 29.60	163.09	980017.062	31.29	25.73
149-B-7	37 56.33	-77 27.97	245.56	980009.579	33.95	25.57
149-B-8	37 57.35	-77 27.68	232.07	980011.997	33.61	25.70
149-B-9	37 59.13	-77 24.68	229.27	980013.375	32.13	24.31
149-B-10	37 59.92	-77 27.87	229.72	980015.916	33.57	25.73
149-B-11	37 55.32	-77 27.12	239.31	980004.524	29.78	21.62
149-B-12	37 54.78	-77 26.55	226.22	980000.823	25.63	17.91
149-B-13	37 53.02	-77 24.93	209.34	979989.350	15.14	8.00
149-B-14	37 53.38	-77 23.27	193.53	979989.037	12.81	6.21
149-B-15	37 55.03	-77 23.63	226.63	979992.409	16.89	9.16
149-B-16SE1	37 56.23	-77 24.72	211.00	980001.291	22.55	15.36
149-C-1 BASE	37 45.50	-77 28.75	219.48	979973.890	11.58	4.10
149-C-2	37 45.98	-77 28.27	221.44	979974.069	11.24	3.69
149-C-3	37 46.48	-77 28.03	219.42	979975.090	11.34	3.86
149-C-4	37 47.22	-77 27.95	205.41	979977.080	10.96	3.95
149-C-5	37 47.98	-77 28.35	89.11	979986.683	8.50	5.46
149-C-6	37 49.60	-77 29.78	201.51	979988.961	18.93	12.06
149-C-7	37 52.37	-77 27.90	109.56	980002.156	19.51	15.77
149-C-8	37 49.10	-77 27.82	144.55	979986.173	11.58	6.65
149-C-9	37 50.03	-77 27.42	123.06	979989.929	11.95	7.75
149-C-10	37 50.72	-77 27.42	146.16	979991.020	14.22	9.24
149-C-11	37 51.57	-77 27.52	135.70	979995.409	16.39	11.76
149-C-12	37 51.10	-77 26.80	105.47	979993.779	12.59	9.00
149-C-13	37 51.55	-77 24.28	214.85	979983.295	11.74	4.41
149-C-14	37 48.02	-77 25.45	57.37	979990.861	9.64	7.68
149-C-15	37 46.60	-77 27.15	210.86	979976.603	11.88	4.69
149-C-16	37 45.17	-77 28.30	211.99	979974.513	11.98	4.75
149-C-17	37 45.27	-77 25.43	197.45	979976.404	12.36	5.63
149-D-1	37 45.77	-77 22.05	106.07	979980.753	7.39	3.77
149-D-2SE1	37 46.17	-77 20.30	47.00	979985.420	5.92	4.31
149-D-3	37 46.80	-77 22.23	92.55	979983.689	7.55	4.39
149-D-4	37 49.45	-77 22.30	206.73	979982.802	13.54	6.49
149-D-5	37 50.88	-77 22.17	205.04	979984.806	13.30	6.31
149-D-6	37 51.70	-77 19.83	201.79	979989.530	16.53	9.65
149-D-7SE2	37 52.32	-77 18.35	190.00	979994.125	19.12	12.64
149-D-8	37 51.18	-77 17.87	186.52	979990.481	16.80	10.44
149-D-9	37 49.60	-77 17.98	191.10	979985.780	14.83	8.32
149-D-10	37 48.00	-77 18.37	195.09	979982.394	14.15	7.50
149-D-11	37 46.60	-77 17.78	185.40	979979.972	12.86	6.53
149-D-12	37 45.95	-77 16.02	172.39	979979.877	12.48	6.60
150-A-1	37 59.23	-77 30.22	171.99	980017.326	30.54	24.68

Station Number	Latitude	Longitude	Elevation	Observed Gravity	Free Air Gravity	Bouguer Gravity
150-A-2	37 59.87	-77 30.45	250.05	980012.549	32.19	23.66
150-A-3SE1	37 57.72	-77 32.75	275.00	980007.217	32.34	22.96
150-A-4	37 59.95	-77 35.62	328.68	979999.147	26.06	14.85
150-A-5SE2	37 57.62	-77 35.57	227.00	980006.173	26.92	19.18
150-A-6	37 56.07	-77 36.48	269.33	980001.329	28.32	19.13
150-A-7	37 55.35	-77 34.62	281.55	980003.906	33.09	23.49
150-A-8	37 56.18	-77 33.70	159.20	980012.535	29.00	23.57
150-A-9	37 54.32	-77 32.67	259.31	980003.373	31.97	23.13
150-A-10	37 53.87	-77 31.8.	258.37	980004.330	33.50	24.68
150-A-11SE3	37 52.87	-77 36.25	275.00	979999.788	31.98	22.60
150-B-1SE1	37 52.55	-77 44.02	353.00	979983.870	23.86	11.82
150-B-2SE2	37 54.17	-77 42.23	287.00	979990.295	21.72	11.93
150-B-3SE3	37 53.50	-77 39.95	262.00	979994.385	24.43	15.49
150-B-4	37 54.08	-77 37.90	260.34	979997.760	26.80	17.92
150-B-5SE4	37 55.42	-77 39.57	302.00	979993.148	24.16	13.86
150-B-6	37 56.47	-77 39.28	285.12	979994.782	22.68	12.95
150-B-7SE5	37 57.37	-77 42.35	329.00	979988.525	19.23	8.01
150-B-8SE6	37 59.00	-77 43.98	337.00	979985.626	14.71	3.21
150-B-9SE7	37 56.62	-77 44.63	306.00	979986.935	16.57	6.14
150-C-1	37 50.87	-77 44.97	351.84	979982.712	25.04	13.04
150-C-2SE1	37 49.83	-77 43.18	319.00	979986.208	26.95	16.07
150-C-3	37 47.82	-77 43.47	212.08	979990.915	24.54	17.30
150-C-4	37 47.33	-77 43.93	293.02	979983.256	25.20	15.20
150-C-5SE2	37 47.57	-77 41.58	281.00	979989.245	29.71	20.13
150-C-6	37 45.43	-77 41.98	191.04	979992.743	27.85	21.34
150-C-7	37 45.48	-77 39.42	253.23	979991.677	32.57	23.93
150-C-8SE3	37 46.97	-77 38.25	280.00	979991.077	32.33	22.78
150-C-9SE4	37 48.90	-77 39.60	335.00	979986.901	30.51	19.08
150-C-10SE5	37 49.42	-77 37.77	304.00	979990.599	30.54	20.17
150-C-11SE6	37 52.33	-77 38.37	270.00	979995.342	27.84	18.63
150-C-12SE7	37 51.57	-77 40.18	304.00	979991.329	28.14	17.77
150-C-13SE8	37 51.90	-77 41.58	312.00	979989.563	26.64	16.00
150-D-1SE1	37 46.72	-77 31.22	225.00	979979.864	16.30	8.03
150-D-2SE2	37 49.58	-77 35.88	296.00	979994.520	33.46	23.37
150-D-3SE3	37 47.77	-77 36.72	259.00	979994.340	32.45	23.62
150-D-4SE4	37 46.05	-77 37.18	233.00	979994.636	32.80	24.85
150-D-5SE5	37 50.73	-77 34.40	261.00	979999.513	33.49	24.59
150-D-6	37 51.85	-77 31.32	250.97	980000.404	31.81	23.25
150-D-7SE6	37 49.73	-77 30.10	209.00	979989.903	20.45	13.32
150-D-8	37 50.08	-77 31.90	113.68	980002.826	23.89	20.02
151-A-1	37 54.73	-77 51.63	356.51	979979.617	16.75	4.59
151-A-2	37 55.78	-77 51.98	378.01	979978.417	16.04	3.15
151-A-3	37 55.77	-77 51.18	398.97	979979.132	18.75	5.15
151-A-4	37 55.78	-77 50.15	360.94	979980.611	16.63	4.32
151-A-5	37 55.78	-77 49.27	294.81	979984.642	14.44	4.39
151-A-6	37 55.93	-77 48.27	310.73	979984.178	15.26	4.06
151-A-7	37 54.98	-77 47.62	337.10	979981.428	16.37	4.87
151-A-8	37 54.02	-77 46.57	355.28	979981.650	19.71	7.60
151-A-9	37 53.27	-77 46.82	371.86	979980.226	20.94	8.26
151-A-10	37 55.58	-77 45.47	273.59	979988.496	16.59	7.26
151-A-11	37 55.43	-77 46.53	310.28	979984.543	16.31	5.73
151-A-12	37 56.18	-77 46.38	266.35	979987.854	14.40	5.31
151-A-13	37 56.93	-77 46.27	329.18	979984.253	15.61	4.38
151-A-14	37 57.58	-77 45.83	347.42	979983.944	16.07	4.22
151-A-15SE1	37 59.00	-77 45.65	296.00	979989.101	14.33	4.23
151-A-16	37 58.85	-77 48.77	332.64	979986.465	15.35	4.01
151-A-17	37 59.10	-77 49.30	353.21	979985.078	15.54	3.49
151-A-18	37 59.25	-77 49.78	350.10	979984.913	14.80	2.92
151-A-19SE2	37 58.22	-77 51.40	375.00	979980.884	14.68	1.89
151-B-1	37 53.03	-77 56.55	350.68	979972.870	11.93	-0.03
151-B-2	37 53.13	-77 57.75	401.37	979968.921	12.61	-1.08
151-B-3	37 54.22	-77 58.59	351.99	979970.759	8.22	-3.70
151-B-4	37 55.02	-77 59.22	423.20	979966.183	9.18	-5.26
151-B-5	37 56.77	-77 59.15	329.79	979971.028	2.69	-8.56
151-B-6	37 57.58	-77 59.77	391.75	979967.388	3.68	-9.68
151-B-7	37 58.35	-77 59.88	436.34	979966.692	6.00	-8.82
151-B-8	37 53.42	-77 53.87	320.31	979977.514	13.16	2.24

Station Number	Latitude	Longitude	Elevation	Observed Gravity	Free Air Gravity	Bouguer Gravity
151-B-9	37 56.47	-77 54.12	388.32	979975.176	12.78	-0.47
151-B-10	37 58.12	-77 54.05	432.70	979975.888	15.26	0.50
151-B-11	37 59.78	-77 54.07	476.21	979973.560	14.59	-1.65
151-B-12	37 59.93	-77 52.72	463.46	979977.180	16.80	0.99
151-B-13	37 55.98	-77 58.83	368.90	979969.329	5.81	-6.77
151-B-14SE1	37 55.68	-77 55.22	398.00	979973.102	12.76	-.82
151-B-15SE2	37 58.75	-77 56.50	306.00	979976.870	3.40	-7.04
151-B-16BR1	37 57.45	-77 57.38	280.00	979978.073	4.05	-5.50
151-B-17BR2	37 55.92	-77 57.73	282.00	979977.675	6.08	-3.54
151-C-1	37 50.62	-77 59.87	411.17	979962.087	10.36	-3.66
151-C-2	37 50.52	-77 59.40	416.32	979961.996	10.90	-3.30
151-C-3	37 49.95	-77 58.95	336.73	979968.680	10.92	-0.56
151-C-4	37 49.58	-77 58.38	266.13	979973.812	9.95	0.87
151-C-5	37 49.37	-77 58.08	299.08	979972.782	12.33	2.13
151-C-6	37 48.15	-77 56.27	321.62	979972.617	16.06	5.09
151-C-7	37 47.63	-77 55.53	394.42	979968.523	19.56	6.11
151-C-8	37 46.90	-77 54.25	386.63	979970.344	21.72	8.53
151-C-9	37 46.52	-77 53.85	375.84	979971.777	22.70	9.88
151-C-10	37 46.95	-77 53.20	338.18	979974.233	20.98	9.44
151-C-11	37 45.20	-77 54.90	369.67	979970.168	22.42	9.81
151-C-12	37 45.93	-77 52.97	347.33	979974.357	23.44	11.60
151-C-13	37 49.72	-77 53.73	336.90	979973.618	16.22	4.73
151-C-14	37 51.53	-77 54.37	314.87	979975.270	13.15	2.41
151-C-15	37 51.97	-77 54.85	244.71	979979.960	10.61	2.26
151-C-16	37 52.30	-77 55.85	355.37	979971.855	12.43	0.31
151-C-17SE1	37 52.03	-77 58.10	403.00	979966.859	12.30	-1.44
151-C-18SE2	37 50.43	-77 56.60	373.00	979969.949	14.90	2.18
151-C-19SE3	37 51.13	-77 55.33	351.00	979972.439	14.30	2.33
151-C-20SE4	37 47.93	-77 59.35	359.00	979966.408	13.68	1.44
151-C-21SE5	37 46.33	-77 58.78	342.00	979969.289	17.29	5.63
151-C-22SE6	37 45.77	-77 56.70	267.00	979974.568	16.34	7.23
151-D-1	37 48.33	-77 51.65	336.30	979975.864	20.42	8.95
151-D-2	37 47.28	-77 50.75	297.49	979979.055	21.49	11.34
151-D-3	37 47.52	-77 49.87	226.58	979984.345	19.77	12.04
151-D-4	37 47.73	-77 48.92	305.91	979980.119	22.69	12.26
151-D-5	37 48.17	-77 45.85	310.32	979982.774	25.13	14.54
151-D-6	37 48.50	-77 47.43	348.77	979978.636	24.12	12.23
151-D-7SE1	37 45.95	-77 48.02	290.00	979981.141	24.81	14.92
151-D-8	37 48.72	-77 45.60	235.64	979987.948	22.48	14.44
151-D-9	37 49.52	-77 45.48	334.05	979982.353	24.97	13.58
151-D-10	37 50.48	-77 45.30	357.89	979981.485	24.94	12.73
151-D-11	37 51.58	-77 45.87	364.14	979980.897	23.34	10.92
151-D-12	37 51.97	-77 47.02	361.82	979980.391	22.06	9.72
151-D-13SE2	37 50.75	-77 47.55	378.00	979978.032	22.99	10.10
151-D-14SE3	37 48.95	-77 49.05	338.00	979978.582	22.40	10.87
151-D-15SE4	37 50.67	-77 49.87	325.00	979979.205	19.30	8.21
151-D-16SE5	37 51.63	-77 51.18	323.00	979977.506	16.00	4.99
151-D-17	37 52.38	-77 49.03	409.15	979974.707	20.22	6.26
151-D-18	37 52.33	-77 48.15	367.84	979979.032	20.73	8.18
151-D-19	37 45.02	-77 51.57	379.46	979974.138	27.58	14.64
168-A-1	38 11.78	-77 7.12	136.48	980005.928	-2.51	-7.16
168-A-2	38 11.48	-77 6.18	37.09	980010.805	-6.54	-7.81
168-A-3	38 11.38	-77 5.43	151.46	980001.793	-4.65	-9.82
168-A-4	38 11.62	-77 4.85	182.41	979999.496	-4.38	-10.60
168-A-5	38 11.28	-77 4.08	157.32	980000.328	-5.42	-10.78
168-A-6	38 11.07	-77 2.90	181.10	979998.006	-5.19	-11.36
168-A-7	38 10.85	-77 2.27	186.63	979997.437	-4.92	-11.28
168-A-8	38 13.87	-77 7.23	196.89	980005.557	-0.24	-6.96
168-A-9	38 13.25	-77 6.52	185.51	980003.814	-2.15	-8.48
168-A-10	38 12.48	-77 5.37	163.59	980002.359	-4.55	-10.13
168-A-11	38 10.37	-77 2.08	188.87	979996.695	-4.75	-11.19
168-A-12	38 9.60	-77 1.90	158.84	979997.663	-5.48	-10.90
168-A-13	38 8.68	-77 1.67	118.52	979999.753	-5.85	-9.89
168-A-14	38 7.53	-77 1.35	37.53	980005.257	-6.28	-7.56
168-A-15	38 14.40	-77 6.08	167.45	980006.484	-2.86	-8.57
168-A-16	38 14.87	-77 5.28	87.32	980011.994	-5.57	-8.55
168-A-17	38 14.88	-77 4.97	81.18	980012.053	-6.11	-8.88

Station Number	Latitude	Longitude	Elevation	Observed Gravity	Free Air Gravity	Bouguer Gravity
168-A-18SE1	38 13.73	-77 4.42	71.00	980010.517	-6.93	-9.35
168-A-19SE2	38 13.53	-77 1.68	68.00	980008.729	-8.71	-11.03
168-A-20	38 13.57	-77 0.63	18.68	980011.391	-10.73	-11.37
168-A-21	38 11.97	-77 0.43	9.24	980010.653	-10.02	-10.34
168-B-1	38 14.33	-77 9.02	188.31	980009.972	2.68	-3.74
168-B-2	38 11.68	-77 10.78	63.97	980016.796	1.68	-0.50
168-B-3	38 12.28	-77 11.28	94.88	980016.114	3.03	-0.20
168-B-4	38 12.92	-77 12.30	36.60	980023.765	4.28	3.03
168-B-5	38 13.93	-77 12.98	107.36	980022.908	8.59	4.93
168-B-6	38 14.50	-77 13.17	19.40	980030.839	7.42	6.76
168-B-7SE1	38 14.02	-77 10.82	103.00	980018.025	3.18	-0.34
168-B-8	38 11.53	-77 9.75	47.78	980016.799	0.38	-1.25
168-B-9	38 11.60	-77 8.93	17.67	980017.562	-1.78	-2.39
168-B-10	38 11.82	-77 8.15	123.63	980008.967	-0.73	-4.94
168-B-11	38 10.58	-77 11.23	15.34	980018.879	0.80	0.28
168-B-12	38 9.80	-77 12.02	38.95	980017.245	2.53	1.20
168-B-13	38 10.63	-77 13.50	46.53	980021.091	5.87	4.29
168-B-14	38 9.15	-77 11.05	41.60	980014.825	1.31	-0.11
168-B-15	38 8.68	-77 10.40	36.43	980013.583	0.26	-0.98
168-B-16	38 8.62	-77 9.63	53.39	980010.960	-0.67	-2.49
168-B-17	38 7.93	-77 8.77	92.18	980005.633	-1.35	-4.49
168-B-18	38 7.75	-77 7.92	156.35	979999.383	-1.30	-6.63
168-B-19	38 9.10	-77 12.87	197.60	980006.013	7.24	0.50
168-B-20	38 8.33	-77 13.83	158.99	980008.528	7.25	1.82
168-B-21	38 7.57	-77 14.62	180.99	980006.677	8.58	2.41
168-C-1	38 .43	-77 7.62	194.59	979994.188	7.78	1.15
168-C-2	38 2.70	-77 8.80	199.47	979993.841	4.59	-2.21
168-C-3	38 3.23	-77 9.37	191.63	979994.677	3.91	-2.63
168-C-4	38 4.18	-77 10.15	170.84	979996.646	2.54	-3.29
168-C-5	38 4.88	-77 10.00	185.16	979995.728	1.94	-4.37
168-C-6	38 5.20	-77 9.15	190.37	979995.153	1.40	-5.10
168-C-7	38 5.63	-77 8.22	184.74	979995.546	.63	-5.67
168-C-8SE1	38 2.23	-77 11.32	157.00	979997.969	5.40	.05
168-C-9SE2	38 .10	-77 10.97	183.00	979994.717	7.71	1.47
168-C-10SE3	38 1.55	-77 13.53	232.00	979992.779	8.26	.35
168-C-11SE4	38 4.73	-77 14.20	209.00	979998.255	6.93	-.20
168-C-12SE5	38 4.67	-77 11.32	199.00	979995.743	3.58	-3.21
168-C-13	38 7.15	-77 12.65	204.78	980000.923	5.68	-1.31
168-C-14	38 6.85	-77 11.85	192.03	980000.357	4.35	-2.20
168-C-15	38 6.90	-77 10.90	195.61	979999.271	3.53	-3.15
168-D-1SE1	38 .20	-77 2.10	168.00	979998.678	10.11	4.38
168-D-2SE2	38 2.67	-77 1.53	149.00	979998.721	4.77	-.31
168-D-3	38 3.80	-77 .58	81.32	980003.672	1.70	-1.07
168-D-4	38 4.58	-77 2.60	148.10	979996.226	-.61	-5.66
168-D-5	38 4.68	-77 3.45	143.24	979996.212	-1.22	-6.11
168-D-6	38 5.18	-77 4.12	38.91	980003.509	-4.47	-5.80
168-D-7	38 5.90	-77 4.98	35.18	980004.280	-5.10	-6.30
168-D-8	38 5.62	-77 6.22	158.99	979995.697	-1.62	-7.04
168-D-9	38 6.43	-77 5.83	34.06	980005.052	-5.21	-6.37
168-D-10	38 7.08	-77 6.52	43.51	980005.108	-5.21	-6.69
168-D-11	38 3.27	-77 3.67	95.01	980000.217	.31	-2.93
168-D-12	38 2.55	-77 4.20	162.00	979995.764	3.21	-2.32
168-D-13SE3	38 3.68	-77 6.40	193.00	979993.373	2.08	-4.51
168-D-14	38 .82	-77 6.62	191.06	979994.422	7.13	.61
168-D-15	38 .88	-77 7.48	187.71	979994.497	6.79	.39
168-D-16	38 6.83	-77 .87	20.85	980006.508	-5.58	-6.29
168-D-17	38 1.60	-77 .65	127.18	980003.344	8.90	4.56
168-D-18	38 3.42	-77 .50	74.13	980004.676	2.59	.06
168-D-19	38 4.35	-77 1.90	97.08	980001.124	-.17	-3.48
168-D-20	38 7.42	-77 7.02	63.24	980004.383	-4.57	-6.72
169-A-1	38 14.13	-77 22.12	70.14	980040.030	21.92	19.53
169-A-2	38 14.33	-77 21.27	62.69	980041.290	22.19	20.04
169-A-3	38 14.33	-77 20.73	62.80	980041.926	22.83	20.69
169-A-4	38 14.22	-77 19.90	53.60	980044.144	24.36	22.53
169-A-5	38 13.82	-77 18.95	41.33	980043.339	22.98	21.57
169-A-6	38 13.17	-77 18.03	15.58	980042.387	20.56	20.03
169-A-7	38 12.33	-77 17.32	182.50	980028.602	23.69	17.47

Station Number	Latitude	Longitude	Elevation	Observed Gravity	Free Air Gravity	Bouguer Gravity
169-A-8SE1	38 13.92	-77 15.52	42.00	980036.913	16.47	15.04
169-A-9	38 11.53	-77 16.68	137.73	980028.656	20.70	16.00
169-A-10	38 10.50	-77 16.38	204.20	980018.772	18.58	11.61
169-A-11	38 10.03	-77 17.50	195.18	980022.847	22.49	15.83
169-A-12	38 12.62	-77 22.33	204.65	980029.781	26.54	19.56
169-A-13	38 12.75	-77 21.88	212.67	980029.539	26.86	19.60
169-A-14	38 13.42	-77 21.57	130.38	980035.942	24.55	20.10
169-A-15	38 12.08	-77 22.05	216.34	980028.814	27.45	20.07
169-A-16	38 8.62	-77 21.13	217.65	980026.188	30.01	22.59
169-A-17	38 8.90	-77 20.27	150.23	980030.200	27.27	22.14
169-A-18SE2	38 10.50	-77 20.23	218.00	980028.004	29.11	21.67
169-A-19SE3	38 11.93	-77 19.15	208.00	980029.164	27.23	20.14
169-B-1	38 14.63	-77 25.18	72.98	980034.473	15.90	13.41
169-B-2	38 13.97	-77 24.32	67.70	980036.366	18.27	15.96
169-B-4	38 12.22	-77 23.57	227.96	980026.365	25.90	18.12
169-B-5	38 11.98	-77 23.33	220.12	980027.213	26.35	18.84
169-B-6	38 10.37	-77 23.73	235.31	980025.395	28.32	20.30
169-B-7	38 8.75	-77 23.30	170.40	980029.321	28.50	22.69
169-B-8	38 10.63	-77 24.40	246.92	980023.803	27.43	19.01
169-B-9	38 11.03	-77 25.02	240.42	980023.237	25.67	17.47
169-B-10	38 11.70	-77 26.42	220.39	980021.809	21.39	13.87
169-B-11	38 14.45	-77 26.15	86.64	980031.403	14.38	11.43
169-B-12	38 13.23	-77 27.40	132.42	980025.699	14.76	10.24
169-B-13	38 12.18	-77 28.13	253.17	980016.079	18.03	9.40
169-B-14	38 9.40	-77 26.15	153.66	980026.839	23.50	18.26
169-B-15	38 7.82	-77 27.33	147.74	980025.350	23.76	18.73
169-B-16	38 7.58	-77 29.30	236.91	980015.698	22.84	14.76
169-B-17SE1	38 10.12	-77 28.48	155.00	980022.317	18.06	12.77
169-B-18	38 10.47	-77 29.70	239.95	980014.576	17.79	9.61
169-B-19	38 12.02	-77 22.82	224.00	980027.735	27.19	19.55
169-C-1	38 3.62	-77 22.58	105.03	980028.386	28.91	25.33
169-C-2SE5	38 4.33	-77 25.15	221.00	980022.171	32.56	25.02
169-C-3SE1	38 5.17	-77 26.63	227.00	980021.351	31.09	23.35
169-C-4	38 7.37	-77 24.23	183.43	980027.358	29.79	23.53
169-C-5SE2	38 5.87	-77 23.70	119.00	980031.021	29.58	25.52
169-C-6SE3	38 .95	-77 24.60	217.00	980018.453	33.40	26.00
169-C-7SE4	38 1.45	-77 26.67	230.00	980018.329	33.77	25.93
169-C-8	38 .03	-77 28.80	245.00	980014.152	33.07	24.72
169-D-1	38 3.55	-77 21.90	140.99	980024.418	28.42	23.62
169-D-2	38 1.35	-77 22.47	103.00	980022.943	26.59	23.07
169-D-3	38 4.17	-77 20.43	214.17	980016.350	26.34	19.04
169-D-4	38 4.33	-77 19.18	210.81	980016.910	20.34	13.15
169-D-5	38 6.08	-77 16.27	201.44	980005.913	11.91	5.04
169-D-6	38 6.95	-77 15.53	182.00	980007.384	10.29	4.08
169-D-7	38 5.03	-77 18.30	216.05	980009.312	18.21	10.85
169-D-8SE1	38 5.33	-77 22.33	194.00	980024.700	31.09	24.47
169-D-9SE2	38 5.98	-77 19.52	220.00	980016.444	24.33	16.83
169-D-10SE3	38 .28	-77 19.85	204.00	980002.070	16.77	9.81
169-D-11	38 .47	-77 15.45	179.00	979995.862	7.94	1.84
169-D-12SE4	38 2.65	-77 18.47	206.00	980003.915	15.35	8.32
170-A-1	38 13.60	-77 30.35	147.70	980018.332	8.30	3.26
170-A-2	38 12.93	-77 30.47	190.25	980015.300	10.24	3.75
170-A-3	38 12.08	-77 30.45	243.55	980012.343	13.54	5.23
170-A-4	38 11.35	-77 30.67	254.94	980011.403	14.74	6.05
170-A-5	38 11.13	-77 30.78	251.09	980011.560	14.85	6.29
170-A-6	38 10.30	-77 31.12	159.30	980017.589	13.46	8.03
170-A-7	38 9.67	-77 31.20	261.27	980010.987	17.38	8.47
170-A-8	38 9.00	-77 31.25	172.16	980016.704	15.69	9.82
170-A-9	38 8.42	-77 31.37	219.98	980014.086	18.42	10.92
170-A-10	38 7.72	-77 31.32	264.04	980010.938	20.44	11.43
170-A-11	38 11.52	-77 32.18	184.92	980013.983	10.49	4.18
170-A-12	38 12.85	-77 32.80	288.25	980005.998	10.28	3.45
170-A-13	38 13.05	-77 34.20	205.92	980011.890	8.13	1.11
170-A-14	38 12.07	-77 35.33	310.19	980003.111	10.60	0.02
170-A-15	38 11.63	-77 35.22	318.93	980002.309	11.25	0.37
170-A-16	38 11.22	-77 33.80	324.63	980002.011	12.10	1.03
170-A-17	38 8.17	-77 34.67	285.05	980003.034	13.85	4.13

Station Number	Latitude	Longitude	Elevation	Observed Gravity	Free Air Gravity	Bouguer Gravity
170-A-18	38 8.87	-77 36.08	278.87	980001.388	10.60	1.09
170-A-19	38 10.28	-77 35.70	207.20	980007.537	7.94	0.88
170-A-20	38 14.80	-77 35.53	245.40	980010.681	8.08	-0.29
170-B-1	38 13.62	-77 37.60	336.88	980001.410	9.14	-2.35
170-B-2	38 14.23	-77 38.33	332.31	980003.663	10.07	-1.27
170-B-3	38 14.80	-77 40.10	346.26	980004.966	11.85	0.04
170-B-4	38 14.57	-77 41.58	342.93	980004.536	11.45	-0.24
170-B-5	38 13.25	-77 42.97	367.00	980001.073	12.18	-0.34
170-B-6	38 11.85	-77 44.83	403.32	979994.296	10.86	-2.90
170-B-7	38 12.37	-77 40.82	337.77	980001.153	10.80	-0.72
170-B-8	38 9.70	-77 38.47	322.90	980000.375	12.52	1.50
170-B-9	38 9.62	-77 43.47	406.68	979994.377	14.52	0.65
170-B-10	38 7.87	-77 44.05	365.39	979994.238	13.05	0.59
170-B-11	38 9.10	-77 41.30	360.10	979996.429	12.94	0.66
170-C-1	38 6.90	-77 38.68	322.95	979995.027	11.26	0.25
170-C-2	38 5.95	-77 39.53	250.11	979998.447	9.22	0.68
170-C-3	38 4.97	-77 39.98	331.06	979991.857	11.67	0.38
170-C-4	38 5.10	-77 43.35	274.80	979995.124	9.46	0.08
170-C-5	38 4.10	-77 44.52	325.73	979990.949	11.53	0.42
170-C-6	38 5.83	-77 42.85	347.77	979991.303	11.43	-0.43
170-C-7	38 6.18	-77 41.57	332.81	979994.925	13.13	1.78
170-C-8	38 7.02	-77 41.27	327.11	979996.569	13.02	1.87
170-C-9	38 6.25	-77 40.47	315.69	979995.617	12.12	1.35
170-C-10	38 4.27	-77 39.90	337.43	979991.057	12.50	0.99
170-C-11	38 3.67	-77 39.63	347.70	979990.879	14.16	2.30
170-C-12	38 3.03	-77 39.75	324.39	979992.412	14.42	3.36
170-C-13	38 2.97	-77 40.20	321.63	979991.682	13.53	2.56
170-C-14	38 2.62	-77 41.58	200.54	979996.869	7.84	1.00
170-C-15	38 2.13	-77 42.48	302.70	979989.918	11.20	0.88
170-C-16	38 2.58	-77 42.87	281.86	979992.771	11.44	1.83
170-C-17	38 3.37	-77 43.73	302.66	979992.417	11.90	1.58
170-C-18	38 1.67	-77 43.25	259.84	979993.017	10.95	2.09
170-C-19	38 1.13	-77 44.28	231.30	979995.043	11.07	3.18
170-C-20	38 0.67	-77 44.63	286.38	979990.912	12.80	3.03
170-C-21	38 1.32	-77 42.27	287.68	979989.834	10.90	1.08
170-C-22	38 1.90	-77 38.90	339.28	979992.735	17.80	6.23
170-C-23	38 1.15	-77 39.82	295.03	979993.939	15.94	5.87
170-C-24	38 0.38	-77 40.62	184.77	979999.404	12.15	5.85
170-C-25	38 2.33	-77 38.33	383.54	979990.953	19.55	6.47
170-C-26	38 2.40	-77 37.98	362.28	979992.555	19.05	6.70
170-C-27	38 3.65	-77 37.73	352.11	979994.242	17.96	5.95
170-D-1	38 6.62	-77 31.73	242.59	980011.097	20.19	11.91
170-D-2	38 5.98	-77 31.73	237.71	980011.663	21.22	13.11
170-D-3	38 5.32	-77 31.57	239.63	980011.410	22.12	13.94
170-D-4	38 4.57	-77 31.37	199.02	980015.346	23.33	16.54
170-D-5	38 3.70	-77 31.15	237.40	980013.480	26.34	18.24
170-D-6	38 3.18	-77 31.07	185.49	980017.546	26.27	19.95
170-D-7	38 2.28	-77 31.05	226.81	980015.042	28.97	21.23
170-D-8	38 1.70	-77 30.98	190.84	980017.228	28.62	22.11
170-D-9	38 1.00	-77 30.90	220.63	980015.396	30.61	23.09
170-D-10	38 0.70	-77 30.78	242.50	980013.615	31.33	23.06
170-D-11	38 5.48	-77 30.82	258.82	980011.913	24.18	15.35
170-D-12	38 5.43	-77 30.62	249.83	980012.926	24.42	15.90
170-D-13	38 5.62	-77 33.07	297.44	980004.787	20.49	10.35
170-D-14	38 6.67	-77 34.03	197.18	980009.145	13.89	7.16
170-D-15	38 4.80	-77 34.95	320.42	980000.709	19.77	8.84
170-D-16	38 5.95	-77 35.75	275.77	980001.890	15.07	5.07
170-D-17	38 7.30	-77 37.00	296.66	979998.505	11.68	1.56
170-D-18	38 3.47	-77 35.58	332.84	979998.689	20.86	9.51
170-D-19	38 3.17	-77 33.70	294.65	980004.348	23.37	13.32
170-D-20	38 1.83	-77 34.43	217.97	980008.550	22.30	14.87
170-D-21	38 1.17	-77 36.88	337.31	979996.629	22.58	11.07
170-D-22	38 0.83	-77 33.35	302.38	980005.775	28.93	18.61
170-D-23	38 7.20	-77 31.33	231.07	980012.637	19.79	11.91
171-A-1	38 13.10	-77 49.20	*141.75	979990.991	11.54	-4.32
171-A-2	38 13.20	-77 46.00	*119.03	979995.357	8.75	-4.57
171-A-3	38 11.60	-77 47.50	*137.78	979988.739	10.25	-5.17

Station Number	Latitude	Longitude	Elevation	Observed Gravity	Free Air Gravity	Bouguer Gravity
171-A-4	38 11.40	-77 46.50	*129.26	979990.423	9.60	-4.87
171-A-5	38 10.10	-77 45.10	*114.09	979995.181	11.57	-1.19
171-A-6	38 12.30	-77 50.90	*148.35	979988.379	12.13	-4.47
171-A-7	38 10.10	-77 51.90	*116.94	979990.128	7.40	-5.68
171-A-8	38 9.60	-77 51.40	*100.90	979991.830	4.88	-6.41
171-A-9	38 9.80	-77 50.60	*115.59	979989.537	6.83	-6.10
171-A-10	38 9.50	-77 49.40	*125.38	979987.743	8.49	-5.54
171-A-11	38 8.70	-77 49.00	*124.63	979986.646	8.33	-5.61
171-A-12	38 8.20	-77 47.70	*115.43	979990.195	9.78	-3.14
171-A-13SE1	38 11.13	-77 50.10	408.00	979990.404	8.46	-5.46
171-A-14SE2	38 14.43	-77 50.53	509.00	979993.086	15.82	-1.54
171-B-1	38 14.50	-77 57.10	*128.61	980007.253	21.70	7.31
171-B-2	38 11.40	-77 56.50	*116.20	980009.511	24.66	11.65
171-B-3	38 12.00	-77 58.20	*113.97	980007.390	20.97	8.22
171-B-4	38 12.80	-77 59.30	*127.16	980000.130	16.61	2.38
171-B-5	38 10.80	-77 58.70	*118.59	980001.983	18.74	5.47
171-B-6	38 9.50	-77 59.80	*121.73	979995.627	15.25	1.63
171-B-7	38 7.80	-77 55.10	*106.49	979987.672	5.08	-6.84
171-B-8	38 7.60	-77 54.30	*105.48	979987.505	4.89	-6.91
171-B-9	38 8.00	-77 56.50	*110.81	979986.794	5.24	-7.16
171-B-10	38 8.30	-77 57.50	*115.82	979986.971	6.52	-6.44
171-B-11	38 9.00	-77 58.90	*117.70	979990.703	9.81	-3.36
171-B-12	38 11.00	-77 54.90	*110.01	980002.061	15.88	3.57
171-B-13	38 12.20	-77 54.40	*119.26	980003.662	18.58	5.24
171-B-14	38 12.40	-77 52.70	*151.80	979990.256	14.93	-2.06
171-B-15SE1	38 8.95	-77 52.95	305.00	979994.930	6.48	-3.92
171-B-16SE2	38 13.93	-77 54.37	413.00	980009.427	23.86	9.77
171-C-1	38 1.00	-77 59.40	*140.61	979967.282	5.14	-10.59
171-C-2	38 1.20	-77 57.50	*145.60	979968.137	7.24	-9.05
171-C-3	38 2.00	-77 57.70	*136.70	979970.226	5.42	-9.88
171-C-4	38 2.80	-77 57.40	*124.75	979974.400	4.74	-9.22
171-C-5	38 3.70	-77 56.90	*128.25	979974.965	5.07	-9.28
171-C-6	38 4.40	-77 56.20	*122.18	979977.044	4.25	-9.42
171-C-7	38 4.90	-77 55.40	*113.10	979979.924	3.60	-9.05
171-C-8	38 5.30	-77 54.10	* 78.03	979988.965	1.24	-7.49
171-C-9	38 4.80	-77 52.80	*130.36	979978.369	7.52	-7.07
171-C-10	38 1.70	-77 53.70	*138.55	979975.742	11.94	-3.56
171-C-11	38 1.50	-77 56.40	*148.12	979968.666	8.11	-8.46
171-C-12	38 5.80	-77 57.70	* 78.33	979988.421	0.06	-8.71
171-C-13	38 5.80	-77 59.70	*124.96	979977.578	3.60	-10.38
171-C-14	38 6.40	-77 60.00	*113.33	979981.314	2.87	-9.81
171-C-15	38 6.80	-77 57.00	* 97.46	979985.748	1.83	-9.08
171-C-16	38 5.60	-77 53.30	*110.15	979983.783	5.53	-6.80
171-C-17	38 6.70	-77 53.20	* 69.08	979986.119	-6.42	-14.15
171-C-18	38 7.30	-77 52.70	*103.00	979990.246	7.30	-4.22
171-C-19SE1	38 4.48	-77 58.02	381.00	979979.584	4.81	-8.19
171-C-20BR1	38 3.90	-77 52.82	296.00	979986.018	4.09	-6.00
171-C-21SE2	38 2.40	-77 55.18	486.00	979971.009	9.15	-7.43
171-D-1	38 4.90	-77 51.30	*114.92	979983.019	8.16	-4.70
171-D-2	38 5.00	-77 50.30	* 96.08	979988.570	6.85	-3.90
171-D-3	38 5.20	-77 48.90	* 67.94	979996.046	5.35	-2.25
171-D-4	38 5.50	-77 48.10	*105.90	979989.846	10.43	-1.42
171-D-5	38 5.70	-77 47.10	*102.48	979991.856	11.09	-0.38
171-D-6	38 6.80	-77 46.20	*118.15	979989.229	11.70	-1.53
171-D-7	38 7.00	-77 46.00	*118.22	979989.506	11.70	-1.53
171-D-8	38 5.90	-77 45.70	* 95.83	979991.918	8.81	-1.92
171-D-9	38 5.20	-77 45.80	*106.17	979988.205	9.31	-2.57
171-D-10	38 3.80	-77 49.90	* 71.33	979994.527	6.92	-1.06
171-D-11	38 2.80	-77 49.00	*109.64	979984.893	10.57	-1.70
171-D-12	38 2.50	-77 48.00	* 96.18	979987.282	9.24	-1.52
171-D-13	38 2.00	-77 46.70	* 64.58	979995.650	8.58	1.36
171-D-14	38 2.70	-77 46.20	* 83.28	979992.346	10.03	0.71
171-D-15	38 0.70	-77 46.30	* 97.24	979987.968	12.88	2.00
171-D-16	38 0.10	-77 45.50	* 88.29	979990.932	13.96	4.08
171-D-17SE1	38 .28	-77 52.17	457.00	979978.422	16.92	1.33
171-D-18SE2	38 1.53	-77 50.77	404.00	979980.552	12.24	-1.54
171-D-19SE3	38 .82	-77 48.05	328.00	979986.631	12.22	1.03

Station Number	Latitude	Longitude	Elevation	Observed Gravity	Free Air Gravity	Bouguer Gravity
171-D-20SE4	38 7.13	-77 51.97	352.00	979987.295	5.92	-6.09
181-C-1	38 16.47	-77 14.12	143.79	980031.319	16.73	11.82
181-C-2	38 16.82	-77 13.22	202.73	980024.334	14.77	7.86
181-C-3	38 16.58	-77 12.27	191.77	980021.127	10.88	4.34
181-C-4	38 15.93	-77 10.82	198.18	980014.682	5.98	-0.78
181-C-5	38 15.42	-77 9.93	185.25	980012.887	3.73	-2.59
181-C-6SE1	38 15.72	-77 7.77	179.00	980010.465	0.28	-5.83
181-C-7	38 17.37	-77 11.75	195.03	980021.169	10.08	3.43
181-C-8	38 17.52	-77 10.58	179.26	980018.879	6.09	-0.03
181-C-9	38 17.90	-77 9.50	175.18	980018.097	4.36	-1.61
181-C-10	38 18.43	-77 8.43	166.91	980018.869	3.57	-2.12
181-C-11	38 19.52	-77 7.97	41.12	980030.397	1.69	0.28
181-C-12	38 20.00	-77 7.57	153.92	980023.171	4.36	-0.89
181-C-13SE2	38 19.43	-77 10.40	178.00	980026.015	10.30	4.23
181-C-14SE3	38 18.58	-77 13.85	188.00	980033.294	19.76	13.35
181-D-1	38 19.85	-77 7.27	154.00	980021.702	3.12	-2.13
181-D-2	38 20.22	-77 6.33	137.60	980021.087	.43	-4.27
181-D-3	38 20.32	-77 5.20	140.68	980018.701	-1.82	-6.62
181-D-4	38 20.38	-77 4.58	31.32	980025.657	-5.25	-6.32
181-D-5	38 21.13	-77 2.92	23.25	980025.705	-7.05	-7.84
181-D-6	38 21.45	-77 1.85	25.66	980025.213	-7.78	-8.65
181-D-7	38 21.55	-77 .97	19.25	980025.154	-8.58	-9.24
181-D-8	38 19.68	-77 2.37	15.87	980022.850	-8.48	-9.02
181-D-9SE1	38 18.57	-77 6.13	163.00	980014.293	-1.57	-7.13
181-D-10SE2	38 15.82	-77 6.30	164.00	980009.413	-2.33	-7.92
181-D-11	38 16.03	-77 4.28	39.51	980016.450	-7.32	-8.67
181-D-12	38 16.33	-77 3.55	147.00	980008.628	-5.47	-10.48
181-D-13	38 15.95	-77 3.02	65.72	980013.575	-7.61	-9.85
181-D-14SE3	38 17.05	-77 2.82	74.00	980014.306	-7.71	-10.23
181-D-15	38 15.40	-77 2.33	13.22	980015.993	-9.32	-9.77
181-D-16	38 15.17	-77 1.62	66.84	980011.488	-8.44	-10.72
181-D-17	38 15.65	-77 .82	29.21	980014.157	-10.02	-11.02
181-D-18	38 16.35	-77 .08	21.16	980015.326	-10.63	-11.35
182-A-1	38 22.67	-77 21.40	18.90	980044.916	9.51	8.86
182-A-2	38 25.20	-77 21.55	27.33	980046.030	7.71	6.78
182-A-3	38 29.18	-77 20.83	197.42	980040.892	12.74	6.00
182-A-4	38 28.22	-77 20.27	27.28	980050.519	7.78	6.85
182-A-5	38 27.85	-77 19.45	11.20	980051.144	7.43	7.04
182-A-6	38 26.30	-77 20.28	37.04	980047.674	8.66	7.39
182-A-7SE1	38 24.47	-77 19.43	15.00	980049.651	11.24	10.73
182-B-1	38 27.57	-77 28.30	315.88	980040.271	25.63	14.85
182-B-2SE1	38 28.83	-77 29.22	268.00	980047.374	26.37	17.23
182-B-3SE2	38 25.33	-77 28.63	328.00	980029.072	18.84	7.65
182-B-4	38 26.65	-77 27.52	257.68	980040.046	21.27	12.48
182-B-5	38 28.63	-77 25.57	253.74	980049.404	27.35	18.70
182-B-6	38 28.70	-77 25.37	273.12	980046.498	26.17	16.86
182-B-7	38 28.07	-77 24.70	189.05	980047.557	20.25	13.80
182-B-8	38 22.57	-77 27.08	60.89	980033.439	2.13	0.05
182-B-9	38 23.50	-77 26.08	191.58	980027.486	7.10	0.57
182-B-10	38 24.03	-77 25.45	118.80	980033.984	5.97	1.92
182-B-11	38 23.80	-77 26.08	254.36	980024.027	9.11	0.43
182-B-12	38 24.05	-77 27.12	277.24	980022.457	9.32	-0.13
182-B-13	38 23.05	-77 23.02	48.53	980039.185	6.00	4.35
182-B-14	38 24.17	-77 23.13	165.92	980033.273	9.50	3.84
182-B-15	38 24.77	-77 23.65	181.58	980033.589	10.41	4.22
182-B-16	38 25.33	-77 24.53	183.41	980033.939	10.10	3.85
182-B-17	38 25.30	-77 25.55	180.76	980034.519	10.48	4.32
182-B-18	38 25.78	-77 26.28	195.52	980038.582	15.23	8.56
182-B-19	38 25.12	-77 24.82	256.28	980028.128	11.46	2.72
182-B-20	38 26.17	-77 24.23	81.41	980043.593	8.94	6.17
182-B-21	38 26.82	-77 24.17	26.02	980049.428	8.62	7.73
182-B-22	38 27.55	-77 24.40	170.23	980045.560	17.24	11.43
182-B-23	38 28.32	-77 23.85	76.74	980054.212	15.98	13.36
182-B-24	38 28.45	-77 23.72	17.83	980057.800	13.83	13.22
182-B-25	38 29.48	-77 22.88	100.51	980055.627	17.92	14.49
182-C-1 BASE	38 18.08	-77 27.57	59.76	980028.000	3.14	1.10
182-C-2	38 17.73	-77 29.07	117.31	980023.136	4.20	0.20

Station Number	Latitude	Longitude	Elevation	Observed Gravity	Free Air Gravity	Bouguer Gravity
182-C-3	38 17.28	-77 29.22	87.30	980023.917	2.82	-0.16
182-C-4	38 16.85	-77 29.37	203.90	980016.064	6.56	-0.39
182-C-5	38 16.28	-77 29.60	203.92	980015.302	6.63	-0.32
182-C-6	38 19.00	-77 29.17	58.07	980028.670	2.31	0.33
182-C-7	38 19.33	-77 28.18	53.43	980029.393	2.11	0.29
182-C-8	38 19.90	-77 28.52	216.38	980019.182	6.40	-0.98
182-C-9	38 20.32	-77 27.72	107.73	980026.817	3.20	-0.47
182-C-10	38 22.42	-77 27.20	68.86	980032.611	2.27	-0.08
182-C-11	38 22.10	-77 28.13	243.46	980020.873	7.42	-0.89
182-C-12SE1	38 22.00	-77 29.18	270.00	980017.972	7.16	-2.05
182-C-13SE2	38 21.17	-77 25.50	116.00	980027.545	3.47	-0.49
182-C-14	38 18.68	-77 26.85	72.92	980028.212	3.71	1.22
182-C-15	38 21.23	-77 23.78	16.66	980038.760	5.24	4.67
182-C-16SE3	38 19.80	-77 24.95	211.80	980022.900	9.83	2.61
182-C-17	38 18.65	-77 24.10	210.60	980025.713	14.21	7.03
182-C-18	38 18.03	-77 22.55	223.62	980028.099	18.72	11.10
182-C-19	38 16.05	-77 26.60	85.16	980029.056	9.56	6.65
182-C-20	38 17.42	-77 26.57	72.64	980029.701	7.03	4.55
182-C-21	38 16.93	-77 25.85	60.08	980032.311	9.16	7.11
182-C-22	38 15.98	-77 25.08	47.86	980035.672	12.76	11.13
182-C-23	38 15.62	-77 24.48	75.04	980035.184	15.37	12.81
182-C-24	38 15.38	-77 23.22	69.74	980037.786	17.81	15.43
182-C-25	38 16.82	-77 22.68	150.11	980033.062	18.55	13.43
182-D-1	38 15.70	-77 21.85	82.69	980039.297	20.08	17.26
182-D-2	38 15.45	-77 21.18	80.43	980040.561	21.49	18.75
182-D-3	38 15.37	-77 19.22	81.16	980042.633	23.76	20.99
182-D-4	38 15.07	-77 18.65	61.15	980042.780	22.46	20.37
182-D-5	38 15.23	-77 17.45	48.44	980042.602	20.84	19.19
182-D-6	38 15.48	-77 16.68	45.98	980041.853	19.50	17.93
182-D-7	38 15.53	-77 16.37	20.71	980043.429	18.62	17.92
182-D-8	38 15.70	-77 15.20	61.40	980039.488	18.27	16.17
182-D-9	38 18.17	-77 21.30	189.50	980032.941	20.16	13.70
182-D-10	38 19.67	-77 19.90	111.50	980040.554	18.24	14.44
182-D-11	38 19.95	-77 17.83	208.46	980036.574	22.97	15.86
182-D-12	38 17.83	-77 18.92	214.00	980034.391	24.40	17.10
182-D-13	38 17.40	-77 16.27	196.50	980034.039	23.04	16.34
182-D-14	38 16.38	-77 16.42	81.50	980040.735	20.40	17.62
182-D-15	38 22.42	-77 19.43	51.11	980046.289	14.28	12.53
182-D-16	38 19.67	-77 15.25	58.16	980048.237	20.91	18.93
183-A-1	38 24.62	-77 36.02	305.54	980031.783	20.48	10.06
183-A-2	38 24.08	-77 33.93	343.73	980028.604	21.68	9.96
183-A-3	38 24.42	-77 33.32	350.12	980031.200	24.39	12.45
183-A-4	38 25.83	-77 32.37	285.71	980040.396	25.45	15.71
183-A-5	38 26.27	-77 31.23	267.45	980042.393	25.09	15.98
183-A-6	38 26.88	-77 30.25	275.63	980043.489	26.05	16.65
183-A-7	38 27.07	-77 32.52	259.30	980047.577	28.34	19.50
183-A-8	38 28.40	-77 32.67	315.45	980047.715	31.81	21.05
183-A-9SE1	38 23.30	-77 32.43	377.00	980020.803	18.15	5.29
183-A-10	38 25.72	-77 34.62	363.91	980033.796	26.38	13.97
183-A-11	38 29.63	-77 35.78	425.32	980035.471	28.07	13.57
183-A-12	38 29.80	-77 36.10	417.97	980035.256	26.94	12.69
183-A-13	38 28.20	-77 37.00	386.32	980033.724	24.78	11.60
183-A-14	38 27.38	-77 37.50	301.86	980036.427	20.73	10.44
183-A-15	38 29.10	-77 32.12	284.21	980046.752	26.88	17.19
183-A-16	38 29.75	-77 31.58	264.55	980045.193	22.52	13.50
183-A-17	38 28.98	-77 33.63	365.47	980044.084	32.03	19.56
183-A-18	38 28.13	-77 31.40	336.25	980043.922	30.36	18.89
183-A-19	38 27.90	-77 30.23	307.87	980043.420	27.53	17.03
183-B-1	38 22.65	-77 42.27	306.24	980029.818	21.46	11.02
183-B-2	38 23.45	-77 43.02	345.33	980032.227	26.38	14.60
183-B-3	38 24.25	-77 44.43	354.80	980035.753	29.62	17.52
183-B-4	38 24.03	-77 43.62	391.59	980030.899	28.55	15.19
183-B-5	38 24.13	-77 42.42	350.23	980032.502	26.11	14.17
183-B-6	38 24.10	-77 41.13	382.26	980026.234	22.91	9.87
183-B-7	38 24.05	-77 40.80	348.12	980027.467	21.00	9.13
183-B-8	38 23.87	-77 39.33	355.59	980022.848	17.35	5.23
183-B-9	38 23.33	-77 38.57	305.99	980023.849	14.47	4.03

Station Number	Latitude	Longitude	Elevation	Observed Gravity	Free Air Gravity	Bouguer Gravity
183-B-10	38 22.90	-77 37.55	243.62	980025.921	11.31	3.00
183-B-11BR1	38 25.82	-77 37.75	193.00	980039.172	15.53	8.95
183-B-12	38 26.83	-77 39.08	350.61	980029.037	18.73	6.77
183-B-13	38 28.10	-77 40.72	282.36	980046.719	28.14	18.51
183-B-14SE1	38 29.72	-77 43.05	420.00	980041.585	33.59	19.26
183-B-15	38 29.10	-77 44.13	378.14	980042.059	31.03	18.13
183-B-16SE2	38 28.65	-77 42.83	361.00	980043.793	31.81	19.49
183-B-17BR2	38 28.15	-77 38.05	230.00	980040.000	16.42	8.58
183-B-18SE3	38 29.27	-77 39.95	412.00	980043.043	34.95	20.90
183-B-19SE4	38 27.10	-77 43.50	370.00	980040.031	31.16	18.54
183-B-20SE5	38 25.67	-77 43.67	328.00	980039.591	28.87	17.68
183-B-21BR3	38 26.82	-77 41.62	232.00	980046.666	25.23	17.32
183-B-22SE6	38 25.73	-77 40.30	306.00	980031.966	19.08	8.64
183-C-1	38 20.60	-77 44.60	*108.62	980023.367	22.73	10.57
183-C-2	38 19.20	-77 41.80	*125.59	980008.069	14.71	0.66
183-C-3	38 18.70	-77 40.30	* 95.87	980012.418	10.62	-0.11
183-C-4	38 18.50	-77 38.10	*104.99	980009.164	10.47	-1.28
183-C-5	38 19.20	-77 38.50	*107.65	980009.459	10.56	-1.48
183-C-6	38 20.30	-77 38.20	* 99.04	980013.420	10.26	-0.82
183-C-7	38 20.70	-77 40.20	*110.98	980011.842	11.78	-0.64
183-C-8	38 22.20	-77 41.50	* 90.39	980027.269	18.66	6.55
183-C-9	38 18.40	-77 38.10	*103.61	980009.434	10.46	-1.13
183-C-10	38 17.30	-77 38.20	*106.33	980007.025	10.50	-1.40
183-C-11	38 16.90	-77 38.80	* 77.82	980013.173	8.44	-0.27
183-C-12	38 16.40	-77 40.80	* 88.66	980011.120	10.46	0.54
183-C-13	38 17.30	-77 41.80	*117.61	980005.271	12.23	-0.93
183-C-14	38 17.60	-77 43.20	*134.17	980003.561	15.19	0.18
183-C-15	38 18.10	-77 42.60	*134.87	980003.979	15.09	0.00
183-D-1	38 17.48	-77 34.42	358.15	980005.357	9.44	-2.77
183-D-2	38 17.17	-77 36.98	342.04	980005.262	8.29	-3.37
183-D-3	38 16.83	-77 36.07	331.81	980005.652	8.21	-3.11
183-D-4	38 16.30	-77 32.17	259.54	980012.787	9.32	0.47
183-D-5	38 19.33	-77 36.08	292.54	980014.605	9.81	-0.17
183-D-6	38 20.23	-77 37.07	250.51	980020.021	9.96	1.41
183-D-7	38 19.95	-77 34.90	285.47	980016.523	10.16	0.43
183-D-8	38 18.80	-77 32.50	82.53	980025.534	1.77	-1.05
183-D-9	38 18.68	-77 30.57	258.03	980016.288	9.20	0.40
183-D-10	38 21.28	-77 30.88	329.34	980015.032	10.85	-0.38
183-D-11	38 20.88	-77 30.12	245.37	980018.613	7.12	-1.25
183-D-12	38 20.48	-77 31.52	266.51	980018.100	9.18	0.09
183-D-13	38 20.63	-77 33.45	269.35	980018.028	9.15	-0.03
183-D-14	38 21.03	-77 35.67	303.17	980018.767	12.49	2.15
183-D-15	38 22.15	-77 33.67	321.13	980021.111	14.89	3.93
184-A-1	38 24.10	-77 51.40	* 90.57	980033.625	22.29	12.16
184-A-2	38 24.40	-77 50.60	*117.11	980029.569	25.99	12.88
184-A-3	38 25.00	-77 49.80	*120.01	980030.308	26.74	13.31
184-A-4	38 25.10	-77 49.50	*128.14	980028.988	27.79	13.45
184-A-5	38 24.30	-77 48.90	*116.41	980030.727	27.08	14.05
184-A-6	38 23.80	-77 48.30	* 79.12	980038.295	23.87	15.01
184-A-7	38 22.70	-77 47.10	* 71.55	980038.851	23.70	15.69
184-A-8	38 24.83	-77 45.48	382.20	980034.386	30.01	16.97
184-A-9	38 28.92	-77 51.77	313.42	980051.128	34.28	23.59
184-A-10	38 29.27	-77 50.88	270.42	980049.904	28.49	19.27
184-A-11	38 29.48	-77 49.62	292.38	980049.806	30.14	20.17
184-A-12	38 29.32	-77 48.60	285.34	980049.734	29.65	19.92
184-A-13	38 28.97	-77 47.75	297.84	980046.175	27.78	17.62
184-A-14	38 28.62	-77 46.98	231.21	980047.255	23.11	15.22
184-A-15	38 25.32	-77 48.25	408.82	980030.810	28.20	14.26
184-A-16	38 25.52	-77 45.73	256.30	980043.676	26.43	17.69
184-A-17	38 26.10	-77 46.02	310.09	980040.458	27.42	16.84
184-A-18	38 26.82	-77 46.40	332.47	980039.238	27.25	15.91
184-A-19	38 28.45	-77 46.68	337.87	980043.146	29.28	17.75
184-A-20	38 28.83	-77 45.30	354.31	980042.491	29.61	17.52
184-A-21SE1	38 25.83	-77 51.30	297.00	980036.898	23.01	12.88
184-A-22SE2	38 27.22	-77 51.30	301.00	980042.938	27.41	17.14
184-A-23SE3	38 27.33	-77 49.12	276.00	980041.839	23.78	14.37
184-B-1-OLI	38 28.48	-77 59.78	404.22	980025.262	17.57	3.78

Station Number	Latitude	Longitude	Elevation	Observed Gravity	Free Air Gravity	Bouguer Gravity
184-B-1	38 24.40	-77 59.20	*112.24	980042.055	36.97	24.41
184-B-2	38 22.50	-77 59.00	* 90.49	980044.728	35.71	25.59
184-B-3	38 23.10	-77 55.30	* 91.55	980042.186	32.62	22.37
184-B-4	38 23.90	-77 53.90	* 73.71	980042.522	26.28	18.03
184-B-5	38 24.60	-77 53.50	* 93.13	980040.563	29.29	18.87
184-B-6	38 24.20	-77 52.70	* 83.12	980037.284	23.51	14.21
184-B-7	38 28.65	-77 59.93	366.13	980025.261	13.76	1.27
184-B-8	38 29.35	-77 59.63	448.96	980019.983	15.25	-0.07
184-B-9	38 28.40	-77 59.82	425.20	980024.250	18.67	4.17
184-B-10	38 28.87	-77 58.80	412.34	980030.759	23.28	9.22
184-B-11	38 29.50	-77 58.10	492.58	980029.243	28.39	11.59
184-B-12	38 29.25	-77 56.55	386.79	980039.924	29.48	16.29
184-B-13	38 29.68	-77 55.58	349.85	980044.505	29.96	18.02
184-B-14	38 26.85	-77 55.75	321.85	980052.632	39.60	28.62
184-B-15	38 26.20	-77 54.07	351.26	980049.253	39.94	27.96
184-B-16	38 25.77	-77 53.70	315.39	980047.730	35.67	24.92
184-B-17	38 26.52	-77 53.47	374.08	980046.539	38.91	26.15
184-B-18	38 27.22	-77 54.07	296.46	980054.129	38.17	28.06
184-B-19	38 28.07	-77 54.08	289.53	980055.553	37.70	27.82
184-B-20	38 29.18	-77 53.67	346.49	980049.747	35.61	23.80
184-B-21	38 29.57	-77 52.70	315.59	980051.482	33.88	23.12
184-B-22	38 29.85	-77 54.45	320.11	980048.458	30.87	19.95
184-B-23SE1	38 26.65	-77 59.17	433.00	980036.287	34.00	19.23
184-B-24SE2	38 25.35	-77 56.87	331.00	980050.373	40.40	29.11
184-B-25SE3	38 24.95	-77 55.00	262.00	980053.319	37.44	28.50
184-B-26SE4	38 28.22	-77 56.57	364.00	980044.846	33.78	21.36
184-C-1	38 15.70	-77 59.40	*145.87	979999.244	17.26	0.94
184-C-2	38 16.00	-77 57.50	*153.88	980001.575	21.62	4.41
184-C-3	38 16.10	-77 54.40	*146.75	980009.452	27.16	10.73
184-C-4	38 17.90	-77 55.50	*140.54	980011.066	24.22	8.50
184-C-5	38 18.50	-77 54.10	*137.46	980013.906	25.23	9.85
184-C-6	38 18.40	-77 52.90	* 99.90	980023.116	23.00	11.82
184-C-7	38 18.40	-77 56.30	*126.94	980014.922	23.15	8.95
184-C-8	38 18.90	-77 57.20	* 93.28	980019.840	16.95	6.51
184-C-9	38 17.30	-77 58.20	129.67	980009.018	19.70	5.19
184-C-10	38 18.10	-77 57.70	* 98.19	980017.975	17.77	6.78
184-C-11	38 18.60	-77 57.80	*110.45	980015.768	18.61	6.26
184-C-12	38 19.60	-77 57.40	*115.37	980020.549	23.45	10.54
184-C-13	38 20.90	-77 57.70	* 83.46	980039.876	31.03	21.69
184-C-14	38 21.50	-77 58.40	* 83.15	980042.356	32.54	23.23
184-C-15	38 21.10	-77 58.50	* 81.57	980042.547	32.83	23.70
184-C-16	38 22.50	-77 56.10	* 83.02	980042.979	31.66	22.37
184-C-17	38 21.70	-77 56.50	* 73.62	980043.043	29.99	21.75
184-C-18	38 21.60	-77 56.10	* 74.22	980039.475	26.75	18.45
184-C-19SE1	38 22.13	-77 53.13	354.00	980025.649	22.54	10.47
184-C-20SE2	38 19.67	-77 54.42	423.00	980019.787	26.78	12.35
184-C-21SE3	38 17.77	-77 59.38	392.00	980011.687	18.54	5.17
184-D-1	38 18.40	-77 51.90	*111.96	980020.759	24.37	11.84
184-D-2	38 18.50	-77 50.90	* 89.64	980025.021	21.59	11.56
184-D-3	38 19.00	-77 49.40	*136.87	980016.054	26.47	11.15
184-D-4	38 20.10	-77 49.90	*126.26	980021.681	27.22	13.09
184-D-5	38 21.10	-77 49.50	*116.38	980026.148	27.17	14.15
184-D-6	38 21.60	-77 47.80	*115.14	980026.936	26.84	13.96
184-D-7	38 21.60	-77 46.80	*106.07	980028.810	25.92	14.05
184-D-8	38 21.20	-77 46.30	*112.73	980027.030	26.78	14.16
184-D-9	38 20.40	-77 46.60	*113.12	980026.256	27.30	14.64
184-D-10	38 19.60	-77 47.00	*103.63	980023.580	22.86	11.26
184-D-11	38 18.70	-77 46.70	*125.06	980012.991	20.20	6.21
184-D-12	38 18.30	-77 48.60	*137.30	980010.275	21.85	6.48
184-D-13	38 15.30	-77 50.30	*143.42	979997.995	15.84	-0.21
184-D-14	38 15.70	-77 48.30	*142.33	979998.698	15.62	-0.30
184-D-15	38 16.40	-77 45.40	*124.02	980002.189	12.44	-1.44
184-D-16	38 17.00	-77 47.90	*146.25	980002.308	18.54	2.18
184-D-17	38 19.00	-77 45.60	*119.73	980014.723	19.85	6.45
184-D-18SE1	38 21.12	-77 52.15	387.00	980024.907	26.39	13.19
184-D-19SE2	38 17.17	-77 52.10	435.00	980015.582	27.36	12.52

APPENDIX II: PRINCIPAL FACTS FOR POINTS IN SHEET 11

Station Number	Latitude	Longitude	Elevation	Observed Gravity	Free Air Gravity	Bouguer Gravity
193-A-1	38 42.97	-77 5.77	84.87	980081.808	22.86	19.97
193-A-2	38 42.63	-77 3.43	9.69	980089.779	24.25	23.92
193-A-3	38 42.90	-77 2.82	28.27	980089.528	25.36	24.39
193-A-4SE1	38 44.57	-77 4.72	38.00	980089.526	23.83	22.53
193-A-5	38 43.47	-77 7.05	32.19	980086.278	21.65	20.55
193-B-1	38 42.22	-77 12.85	41.60	980085.753	23.84	22.42
193-B-2	38 42.55	-77 11.67	149.72	980079.058	26.83	21.72
193-B-3	38 41.88	-77 12.10	15.00	980087.983	24.06	23.55
193-B-4	38 40.27	-77 14.07	75.00	980082.854	26.94	24.38
193-B-5	38 40.87	-77 14.12	228.67	980073.041	30.70	22.91
193-B-6	38 43.22	-77 11.45	53.76	980084.032	21.80	19.96
193-B-7	38 44.07	-77 11.03	79.82	980082.868	21.84	19.11
193-B-8	38 40.77	-77 12.25	142.81	980073.970	23.70	18.83
193-B-9	38 40.07	-77 10.15	129.20	980068.301	17.78	13.37
193-B-10	38 38.73	-77 10.27	10.52	980073.034	13.31	12.95
193-B-11	38 38.37	-77 11.55	30.40	980071.269	13.95	12.91
193-B-12	38 38.00	-77 11.92	33.86	980069.775	13.32	12.16
193-B-13	38 38.78	-77 8.92	38.17	980072.439	15.24	13.94
193-B-14	38 38.18	-77 8.67	16.08	980073.665	15.27	14.72
193-B-15	38 42.80	-77 9.60	52.95	980083.784	22.08	20.28
193-B-16	38 42.65	-77 8.77	144.20	980074.809	21.91	16.99
193-B-17	38 41.22	-77 8.12	135.00	980071.682	20.02	15.42
194-A-1	38 41.50	-77 21.78	359.32	980063.671	32.69	20.44
194-A-2	38 42.08	-77 21.37	329.24	980066.856	32.19	20.96
194-A-3	38 40.70	-77 21.27	353.05	980062.399	32.01	19.96
194-A-4	38 40.28	-77 20.17	354.96	980063.113	33.51	21.40
194-A-5SE1	38 39.15	-77 19.03	302.00	980067.353	34.43	24.13
194-A-6	38 39.50	-77 18.10	280.26	980067.086	31.61	22.05
194-A-7	38 40.25	-77 17.05	248.17	980070.122	30.52	22.06
194-A-8	38 38.88	-77 17.40	210.68	980071.317	30.20	23.01
194-A-9	38 39.38	-77 17.23	241.12	980070.007	31.02	22.79
194-A-10	38 39.45	-77 16.52	261.96	980069.624	32.50	23.56
194-A-11	38 39.53	-77 15.65	53.93	980082.238	25.42	23.58
194-A-12	38 43.15	-77 16.32	310.01	980068.633	30.60	20.02
194-A-13	38 44.85	-77 16.93	245.77	980077.600	31.03	22.65
194-A-14	38 44.65	-77 17.37	337.51	980071.589	33.94	22.43
194-A-15	38 43.85	-77 16.78	333.68	980069.158	32.32	20.94
194-B-1	38 39.55	-77 28.22	347.40	980061.793	32.55	20.71
194-B-2	38 38.35	-77 26.70	406.95	980053.205	31.33	17.45
194-B-3	38 37.83	-77 25.05	364.30	980053.025	27.89	15.47
194-B-4	38 37.98	-77 26.23	403.00	980052.185	30.47	16.73
194-B-5	38 39.57	-77 25.17	385.38	980056.456	30.77	17.62
194-B-6SE1	38 38.98	-77 23.27	364.00	980056.234	29.39	16.97
194-B-7	38 40.57	-77 23.37	351.40	980060.975	30.62	18.64
194-B-8SE2	38 42.47	-77 22.93	279.00	980071.853	31.90	22.39
194-B-9	38 43.88	-77 24.28	317.70	980074.738	36.35	25.51
194-B-10	38 44.07	-77 25.68	297.39	980077.855	37.29	27.14
194-C-1	38 37.35	-77 24.05	334.42	980052.923	25.69	14.28
194-C-2	38 35.42	-77 26.78	361.85	980048.586	26.77	14.42
194-D-1	38 30.65	-77 22.17	65.58	980061.562	18.86	16.62
194-D-2	38 32.22	-77 20.68	116.22	980059.829	19.59	15.63
194-D-3	38 35.78	-77 20.15	227.99	980059.144	24.20	16.42
194-D-4	38 37.43	-77 17.32	217.67	980064.653	26.32	18.89
194-D-5	38 34.13	-77 19.77	66.71	980067.813	20.11	17.84
195-A-1SE1	38 44.65	-77 30.78	196.00	980080.344	29.38	22.70
195-A-2	38 43.95	-77 34.58	234.21	980073.611	27.27	19.28
195-A-3SE2	38 44.60	-77 36.38	304.24	980070.027	29.32	18.94
195-A-4SE3	38 43.02	-77 37.40	286.00	980068.490	28.39	18.64
195-A-5	38 41.90	-77 34.78	264.00	980069.950	29.42	20.42

* Denotes elevation in meters

BR Denotes bridge elevation

SE Denotes checked spot elevation

Station Number	Latitude	Longitude	Elevation	Observed Gravity	Free Air Gravity	Bouguer Gravity
195-A-6	38 42.72	-77 34.87	212.28	980073.753	27.16	19.92
195-A-7	38 43.40	-77 32.22	202.64	980077.301	28.80	21.89
195-A-8	38 42.73	-77 31.43	203.30	980077.843	30.38	23.45
195-A-9SE4	38 41.62	-77 30.70	206.00	980077.974	32.40	25.38
195-A-10	38 40.92	-77 33.52	210.84	980072.330	28.24	21.05
195-A-11SE5	38 40.78	-77 34.48	218.00	980070.302	27.08	19.65
195-A-12	38 39.30	-77 32.23	209.87	980072.523	30.72	23.56
195-A-13	38 40.13	-77 32.30	174.18	980075.710	29.32	23.38
195-A-14	38 38.13	-77 32.97	229.38	980068.403	30.14	22.32
195-A-15SE6	38 38.85	-77 35.18	199.00	980069.182	27.01	20.22
195-A-16SE7	38 40.25	-77 37.28	283.00	980066.558	30.24	20.58
195-B-1	38 39.40	-77 44.37	434.90	980052.689	31.90	17.07
195-B-2	38 38.75	-77 43.78	411.05	980052.578	30.50	16.48
195-B-3SE1	38 37.68	-77 42.87	358.00	980053.034	27.53	15.32
195-B-4SE2	38 40.32	-77 42.83	299.00	980058.769	23.85	13.66
195-B-5	38 42.13	-77 42.12	290.90	980058.704	20.36	10.44
195-B-6	38 41.75	-77 42.82	397.77	980052.518	24.79	11.22
195-B-7	38 41.97	-77 43.95	416.71	980054.545	28.28	14.07
195-B-8	38 44.80	-77 38.90	383.07	980061.683	28.10	15.03
195-B-9	38 43.08	-77 39.82	377.25	980057.295	25.68	12.82
195-B-10	38 42.23	-77 39.97	387.43	980055.948	26.54	13.33
195-B-11	38 42.52	-77 41.03	317.19	980058.651	22.22	11.40
195-B-12SE3	38 43.73	-77 43.15	448.00	980050.775	24.86	9.58
195-B-13	38 41.42	-77 40.20	392.10	980054.964	27.19	13.82
195-B-14	38 40.70	-77 39.98	315.58	980060.688	26.77	16.01
195-B-15	38 39.88	-77 38.78	309.38	980064.216	30.91	20.36
195-B-16SE4	38 37.80	-77 39.75	265.00	980063.831	29.41	20.37
195-C-1	38 30.02	-77 41.53	413.83	980044.167	35.17	21.06
195-C-2	38 30.58	-77 42.73	381.59	980045.260	32.38	19.36
195-C-3	38 32.68	-77 43.88	272.55	980053.409	27.20	17.90
195-C-4	38 33.63	-77 44.47	304.26	980053.079	28.46	18.08
195-C-5	38 31.43	-77 40.70	456.78	980044.383	37.33	21.75
195-C-6	38 31.88	-77 40.23	432.92	980046.676	36.72	21.95
195-C-7	38 33.17	-77 40.47	330.10	980052.259	30.75	19.49
195-C-8	38 32.50	-77 39.50	390.34	980050.272	35.41	22.09
195-C-9	38 31.98	-77 38.48	419.51	980048.523	37.16	22.85
195-C-10	38 33.85	-77 40.52	274.30	980055.999	28.24	18.88
195-C-11SE1	38 34.83	-77 41.78	333.36	980053.344	29.70	18.33
195-C-12	38 35.80	-77 42.48	295.70	980056.666	28.06	17.98
195-C-13	38 34.88	-77 44.42	293.90	980054.918	27.49	17.46
195-C-14	38 34.62	-77 38.85	262.63	980058.870	28.89	19.93
195-C-15	38 34.60	-77 37.82	263.71	980060.212	30.36	21.36
195-C-16BR1	38 35.62	-77 37.52	212.00	980063.080	26.87	19.64
195-C-17BR2	38 37.27	-77 39.50	230.00	980064.700	27.77	19.92
195-C-18BR3	38 36.77	-77 41.27	251.00	980061.505	27.28	18.72
195-C-19BR4	38 36.98	-77 43.27	272.00	980057.445	24.88	15.60
195-D-1SE1	38 30.25	-77 31.15	338.00	980040.472	23.98	12.45
195-D-2	38 31.60	-77 33.87	433.11	980036.992	27.47	12.70
195-D-3	38 31.58	-77 34.98	422.16	980036.970	26.44	12.04
195-D-4	38 31.57	-77 35.85	383.08	980042.644	28.46	15.40
195-D-5	38 31.30	-77 36.62	414.07	980040.879	30.00	15.88
195-D-6BR1	38 32.90	-77 36.98	274.00	980059.728	33.33	23.99
195-D-7	38 35.00	-77 36.85	260.38	980061.794	31.04	22.16
195-D-8BR2	38 36.73	-77 36.35	194.00	980066.468	26.93	20.31
195-D-9	38 36.10	-77 35.07	232.64	980065.208	30.23	22.30
195-D-10	38 32.38	-77 34.03	417.41	980038.128	25.98	11.74
195-D-11	38 33.37	-77 33.98	368.50	980046.511	28.32	15.75
195-D-12	38 34.38	-77 34.05	323.00	980053.707	29.75	18.73
195-D-13	38 36.67	-77 33.07	186.42	980067.197	27.04	20.69
195-D-14	38 37.28	-77 33.32	177.80	980064.374	22.51	16.44
195-D-15	38 33.88	-77 32.93	379.57	980043.345	25.44	12.49
195-D-16	38 34.43	-77 31.02	411.53	980043.142	27.44	13.40
195-D-17	38 36.03	-77 30.60	343.22	980050.681	26.21	14.50
195-D-18	38 36.77	-77 31.38	194.26	980063.163	23.60	16.97
196-A-1 BASE	38 41.10	-77 48.28	634.86	980042.240	37.77	16.12
196-A-2SE2	38 44.42	-77 52.05	616.00	980031.027	19.91	-1.10
196-A-3	38 42.55	-77 51.23	506.39	980046.571	27.89	16.62

Station Number	Latitude	Longitude	Elevation	Observed Gravity	Free Air Gravity	Bouguer Gravity
196-A-4	38 42.13	-77 48.62	611.38	980047.105	38.91	18.06
196-A-5	38 42.25	-77 50.28	437.45	980053.951	29.22	14.30
196-A-6	38 42.02	-77 49.30	420.26	980056.263	30.26	15.93
196-A-7	38 41.12	-77 50.10	432.42	980047.555	24.02	9.27
196-A-8	38 40.08	-77 51.62	486.01	980032.705	15.72	-.85
196-A-9	38 40.55	-77 51.38	426.18	980040.750	17.46	2.92
196-A-10	38 40.87	-77 52.43	446.97	980040.614	18.81	3.57
196-A-11SE3	38 38.72	-77 51.78	368.00	980037.459	11.38	-1.17
196-A-12	38 38.25	-77 49.75	455.47	980038.287	21.12	5.59
196-A-13	38 41.97	-77 47.25	544.08	980051.958	37.67	19.12
196-A-14SE4	38 43.65	-77 47.45	463.00	980056.305	31.93	16.13
196-A-15	38 44.10	-77 46.20	455.83	980050.344	24.63	9.08
196-A-16	38 40.92	-77 45.60	428.37	980058.769	35.14	20.53
196-A-17	38 41.72	-77 45.30	517.17	980052.731	36.28	18.64
196-A-18	38 40.62	-77 47.28	533.79	980050.445	37.17	18.97
196-A-19	38 37.52	-77 48.05	437.04	980044.058	26.23	11.33
196-A-20	38 39.83	-77 47.78	463.56	980050.278	31.55	15.74
196-A-21	38 39.27	-77 47.05	416.44	980053.649	31.32	17.12
196-A-22SE5	38 39.05	-77 46.20	430.00	980054.659	33.92	19.26
196-A-23SE1	38 43.90	-77 48.90	544.00	980053.020	35.89	17.34
196-B-1	38 41.03	-77 54.23	341.82	980036.109	4.17	-7.49
196-B-2	38 41.62	-77 53.65	440.26	980035.789	12.25	-2.76
196-B-3	38 41.93	-77 53.12	428.61	980039.879	14.78	0.17
196-B-4	38 41.23	-77 53.15	594.44	980030.763	22.29	2.02
196-B-5	38 40.42	-77 56.48	412.24	980020.230	-4.18	-18.24
196-B-6	38 37.58	-77 59.52	492.16	980006.336	-6.40	-23.19
196-B-7	38 40.37	-77 57.62	545.00	980009.981	-1.87	-20.46
196-B-8	38 40.23	-77 59.18	566.35	980003.682	-5.96	-25.28
196-B-9	38 40.47	-77 59.98	574.17	980000.554	-8.70	-28.28
196-B-10	38 42.00	-77 54.65	338.68	980031.512	-2.14	-13.69
196-B-11	38 42.93	-77 56.20	527.99	980014.116	-3.10	-21.11
196-B-12	38 43.75	-77 56.78	577.27	980009.789	-3.99	-23.68
196-B-13	38 43.30	-77 57.27	591.09	980007.803	-4.01	-24.17
196-B-14	38 43.10	-77 58.17	536.02	980008.701	-8.00	-26.28
196-B-15	38 42.83	-77 58.77	552.74	980006.050	-8.69	-27.54
196-B-16	38 43.12	-77 55.10	468.53	980021.831	-1.25	-17.23
196-B-17	38 43.65	-77 54.02	474.33	980026.591	3.28	-12.90
196-B-18	38 44.80	-77 53.23	371.60	980034.124	-0.54	-13.21
196-B-19	38 44.22	-77 57.38	575.27	980009.290	-5.36	-24.98
196-C-1	38 32.68	-77 58.75	332.87	980026.723	6.18	-5.17
196-C-2	38 33.53	-77 58.85	462.23	980016.650	7.03	-8.73
196-C-3	38 34.35	-77 58.88	482.33	980014.281	5.36	-11.09
196-C-4	38 34.85	-77 58.67	460.86	980014.735	3.06	-12.66
196-C-5	38 35.55	-77 57.95	323.86	980023.327	-2.26	-13.31
196-C-6	38 36.55	-77 59.03	434.54	980012.005	-4.64	-19.46
196-C-7	38 37.23	-77 59.50	503.47	980005.607	-5.55	-22.73
196-C-8	38 36.00	-77 57.30	409.60	980020.031	1.85	-12.12
196-C-9	38 36.87	-77 56.93	330.56	980025.408	-1.48	-12.75
196-C-10	38 37.40	-77 56.57	424.00	980020.655	1.77	-12.69
196-C-11	38 30.32	-77 53.32	355.71	980046.330	31.41	19.27
196-C-12	38 30.60	-77 52.80	382.32	980046.993	34.16	21.12
196-C-13	38 33.40	-77 55.50	421.94	980037.320	24.11	9.72
196-C-14	38 35.00	-77 55.00	355.69	980032.543	10.75	-1.38
196-C-15	38 36.43	-77 54.00	459.07	980027.216	13.05	-2.61
196-C-16	38 34.97	-77 52.68	299.69	980044.164	17.16	6.94
196-C-17	38 37.28	-77 54.20	477.23	980023.815	10.11	-6.17
196-C-18	38 37.37	-77 53.12	439.20	980030.492	13.09	-1.89
196-D-1	38 30.37	-77 46.60	256.07	980053.151	28.78	20.05
196-D-2	38 30.55	-77 45.70	256.27	980053.444	28.82	20.08
196-D-3	38 30.77	-77 45.35	279.09	980051.433	28.64	19.12
196-D-4	38 30.72	-77 51.37	320.99	980046.092	27.31	16.37
196-D-5	38 30.93	-77 50.63	290.88	980047.861	25.93	16.01
196-D-6	38 33.10	-77 50.13	311.40	980047.079	23.91	13.29
196-D-7	38 33.78	-77 50.55	326.34	980044.289	21.52	10.39
196-D-8	38 34.27	-77 51.38	296.46	980045.725	19.44	9.33
196-D-9	38 34.65	-77 52.03	291.14	980046.632	19.28	9.35
196-D-10	38 35.17	-77 50.33	375.49	980041.648	21.48	8.67

Station Number	Latitude	Longitude	Elevation	Observed Gravity	Free Air Gravity	Bouguer Gravity
196-D-11	38 36.15	-77 49.95	438.07	980039.344	23.62	8.68
196-D-12	38 34.63	-77 48.13	330.12	980047.947	24.29	13.03
196-D-13	38 36.25	-77 48.05	398.68	980044.722	25.15	11.55
196-D-14	38 37.03	-77 47.78	448.31	980043.929	27.87	12.58
196-D-15	38 34.95	-77 46.07	323.98	980051.817	27.12	16.07
196-D-16	38 30.77	-77 49.25	351.59	980047.762	31.79	19.80
204-A-1SE1	38 54.98	-77 6.98	278.00	980099.108	40.69	31.21
204-A-2	38 53.75	-77 6.35	264.59	980097.293	39.42	30.40
204-A-3	38 53.67	-77 4.67	181.26	980102.774	37.19	31.01
204-A-4	38 52.90	-77 6.13	260.82	980095.431	38.46	29.56
204-B-1SE1	38 53.88	-77 12.20	477.00	980085.271	47.18	30.91
204-B-2	38 53.02	-77 10.43	336.72	980096.612	40.60	29.12
204-B-3SE2	38 53.93	-77 8.53	384.00	980089.579	42.67	29.57
204-B-4	38 55.37	-77 8.70	196.44	980104.707	38.05	31.35
204-B-5	38 54.95	-77 10.68	266.81	980100.927	41.50	32.40
204-B-6	38 56.82	-77 9.60	282.50	980105.555	44.86	35.23
204-B-7	38 57.05	-77 10.68	262.31	980106.628	43.69	34.75
204-B-8	38 56.20	-77 13.92	389.07	980099.908	50.15	36.88
204-B-9	38 58.55	-77 14.80	157.61	980122.518	47.53	42.16
204-B-10SE3	38 57.15	-77 13.58	311.00	980107.277	48.78	38.17
204-B-11SE4	38 55.77	-77 8.85	270.00	980101.348	41.02	31.81
204-C-1	38 46.50	-77 14.77	206.12	980085.064	32.34	25.31
204-C-2	38 45.43	-77 13.60	176.70	980080.913	26.99	20.96
204-C-3	38 45.35	-77 14.33	306.21	980073.648	32.03	21.58
204-C-4	38 50.25	-77 14.73	376.02	980081.210	38.96	26.14
204-C-5	38 49.93	-77 11.62	361.01	980083.172	39.98	27.66
204-C-6	38 51.05	-77 12.10	315.65	980086.604	37.50	26.74
204-C-7	38 51.10	-77 12.85	337.34	980085.123	37.99	26.48
204-C-8	38 52.07	-77 13.70	365.67	980086.351	40.46	27.99
204-C-9	38 51.20	-77 14.83	262.42	980091.046	36.72	27.77
204-C-10	38 52.38	-77 9.52	386.01	980085.658	41.22	28.05
204-C-11	38 50.97	-77 7.68	253.77	980087.611	32.81	24.16
204-C-12	38 48.38	-77 9.58	160.39	980096.775	36.99	31.51
204-C-13	38 48.10	-77 11.25	214.97	980089.853	35.61	28.28
204-C-14SE1	38 47.17	-77 11.63	288.00	980081.921	35.92	26.10
204-C-15	38 47.90	-77 8.08	142.86	980096.028	35.30	30.43
204-C-16	38 46.90	-77 9.42	223.81	980085.743	34.10	26.46
204-C-17	38 46.10	-77 9.80	205.44	980082.074	29.87	22.87
204-D-1	38 48.38	-77 6.43	51.78	980102.305	32.30	30.53
204-D-2	38 45.20	-77 5.18	43.43	980092.047	25.93	24.45
204-D-3	38 45.12	-77 3.02	65.41	980090.724	26.80	24.56
204-D-4	38 45.85	-77 3.17	8.70	980096.930	26.59	26.29
204-D-5	38 48.63	-77 2.75	49.00	980106.242	35.61	33.94
204-D-6	38 50.48	-77 2.83	13.79	980108.561	31.90	31.43
204-D-7	38 49.25	-77 3.10	39.68	980105.148	32.73	31.38
204-D-8	38 49.98	-77 3.55	35.81	980106.224	32.37	31.15
204-D-9	38 46.82	-77 3.38	9.48	980103.347	31.66	31.34
204-D-10	38 50.55	-77 6.57	168.65	980098.642	36.45	30.70
205-A-1	38 58.40	-77 17.80	307.87	980111.693	51.06	40.56
205-A-2	38 56.68	-77 19.53	382.84	980101.058	50.00	36.94
205-A-3	38 53.40	-77 20.87	421.19	980093.238	50.61	36.25
205-A-4	38 52.92	-77 22.23	504.97	980085.637	51.60	34.38
205-A-5	38 57.62	-77 18.57	315.98	980108.606	49.89	39.11
205-A-6	38 58.90	-77 15.43	288.66	980115.573	52.40	42.55
205-A-7SE1	38 57.73	-77 15.63	336.00	980108.693	51.69	40.23
205-A-8SE2	38 56.18	-77 16.67	343.00	980103.856	49.79	38.09
205-A-9	38 55.27	-77 17.13	277.05	980105.331	46.40	36.95
205-A-10	38 55.80	-77 18.32	224.50	980110.425	45.77	38.11
205-A-11	38 55.12	-77 18.25	308.46	980103.240	47.49	36.97
205-A-12	38 52.80	-77 18.12	416.44	980093.259	51.07	36.86
205-A-13	38 53.98	-77 20.18	399.38	980095.267	49.73	36.11
205-A-14	38 58.63	-77 21.78	316.47	980106.334	46.17	35.37
205-A-15SE3	38 58.02	-77 21.25	457.00	980098.618	52.58	36.99
205-A-16SE4	38 54.22	-77 21.47	398.00	980095.378	49.37	35.80
205-A-17	38 55.40	-77 19.73	356.23	980099.980	48.31	36.16
205-B-1	38 57.23	-77 23.47	416.03	980096.817	48.07	33.88
205-B-2	38 57.73	-77 25.17	351.53	980097.509	41.96	29.97

Station Number	Latitude	Longitude	Elevation	Observed Gravity	Free Air Gravity	Bouguer Gravity
205-B-3	38 55.07	-77 25.82	328.20	980092.267	38.45	27.25
205-B-4	38 57.48	-77 29.75	293.94	980088.886	28.29	18.26
205-B-5	38 59.92	-77 25.93	323.87	980099.096	37.74	26.69
205-B-6	38 58.18	-77 23.17	367.80	980102.012	47.34	34.79
205-B-7	38 59.62	-77 22.62	278.19	980109.632	44.42	34.93
205-B-8	38 55.97	-77 22.70	407.32	980095.918	48.22	34.32
205-B-9	38 56.52	-77 24.87	305.26	980098.016	39.91	29.49
205-B-10	38 53.88	-77 22.88	481.05	980088.277	50.57	34.16
205-B-11	38 53.43	-77 24.83	287.70	980095.309	40.08	30.26
205-B-12	38 52.85	-77 26.28	262.80	980095.834	39.12	30.15
205-B-13	38 52.93	-77 28.20	232.23	980096.604	36.89	28.97
205-B-14	38 53.77	-77 28.83	311.28	980091.401	37.90	27.28
205-C-1 BASE	38 50.28	-77 25.57	399.18	980086.600	46.48	32.87
205-C-2	38 50.33	-77 24.93	310.23	980092.432	43.87	33.29
205-C-3	38 51.08	-77 24.18	376.38	980091.269	47.83	34.99
205-C-4	38 49.23	-77 24.82	367.80	980087.850	46.32	33.78
205-C-5	38 47.65	-77 24.30	303.59	980085.533	40.29	29.93
205-C-6	38 45.97	-77 24.43	308.30	980080.813	38.48	27.97
205-C-7SE3	38 48.08	-77 25.22	350.00	980087.267	45.75	33.82
205-C-8	38 49.55	-77 26.25	349.64	980086.591	42.89	30.96
205-C-9SE1	38 48.60	-77 27.00	226.00	980088.573	34.64	26.93
205-C-10	38 47.42	-77 26.93	201.41	980088.477	33.96	27.09
205-C-11	38 45.87	-77 26.55	234.19	980085.806	36.65	28.67
205-C-12	38 45.17	-77 29.58	258.59	980079.128	33.30	24.48
205-C-13	38 48.60	-77 29.42	176.06	980087.040	28.41	22.40
205-C-14	38 49.20	-77 27.92	196.46	980089.471	31.88	25.18
205-C-15	38 50.32	-77 25.75	380.71	980087.046	45.14	32.16
205-C-16	38 49.68	-77 29.15	296.90	980083.934	35.08	24.95
205-C-17	38 50.12	-77 28.65	253.17	980089.518	35.91	27.27
205-C-18	38 52.28	-77 29.67	235.85	980091.327	32.91	24.86
205-C-19SE2	38 50.70	-77 28.98	282.00	980088.367	36.61	27.00
205-C-20	38 49.98	-77 27.82	216.41	980093.725	36.85	29.47
205-C-21	38 51.33	-77 25.80	245.15	980095.947	39.80	31.44
205-C-22	38 52.20	-77 25.77	359.54	980090.721	44.06	31.80
205-C-23	38 50.92	-77 26.33	229.78	980094.997	38.01	30.18
205-C-24	38 52.07	-77 27.85	229.51	980095.666	36.97	29.14
205-D-1	38 50.98	-77 20.78	411.21	980090.547	50.53	36.51
205-D-2	38 52.35	-77 15.27	300.94	980093.344	40.95	30.69
205-D-3	38 51.50	-77 18.47	346.98	980092.126	45.31	33.48
205-D-4	38 52.02	-77 19.30	455.17	980090.730	53.33	37.81
205-D-5	38 52.48	-77 20.30	316.61	980099.347	48.23	37.43
205-D-6	38 52.07	-77 21.88	477.72	980086.548	51.20	34.90
205-D-7	38 50.77	-77 18.47	446.61	980082.192	45.82	30.59
205-D-8	38 49.23	-77 15.73	281.11	980086.939	37.26	27.67
205-D-9	38 47.53	-77 16.42	249.16	980086.356	36.16	27.67
205-D-10	38 48.72	-77 18.90	353.72	980082.017	39.92	27.86
205-D-11	38 48.08	-77 17.33	276.93	980085.516	37.13	27.68
205-D-12	38 45.25	-77 18.17	351.85	980072.915	35.73	23.73
205-D-13SE1	38 47.95	-77 20.28	325.00	980083.711	40.04	28.96
205-D-14SE2	38 48.37	-77 22.33	329.00	980085.705	41.80	30.58
205-D-15	38 45.55	-77 20.13	373.08	980073.899	38.27	25.55
205-D-16	38 45.68	-77 21.48	227.10	980084.824	35.27	27.53
205-D-17	38 45.92	-77 22.05	324.00	980078.940	38.16	27.11
205-D-18SE3	38 46.55	-77 19.15	396.00	980074.404	39.47	25.96
205-D-19	38 47.02	-77 16.80	340.69	980079.363	38.54	26.92
206-A-1	38 59.52	-77 37.07	359.00	980085.502	28.04	15.79
206-A-2	38 58.13	-77 37.38	363.78	980085.254	30.27	17.86
206-A-3	38 57.38	-77 37.43	401.88	980082.807	32.51	18.80
206-A-4SE1	38 55.57	-77 36.33	385.00	980081.303	31.09	17.96
206-A-5BR1	38 53.37	-77 34.23	254.00	980084.463	26.16	17.50
206-A-6SE2	38 52.85	-77 35.50	338.00	980078.170	28.53	17.00
206-A-7SE3	38 55.37	-77 34.32	357.00	980078.147	26.59	14.42
206-A-8	38 53.10	-77 32.47	359.04	980082.312	34.28	22.03
206-A-9SE4	38 53.72	-77 30.87	288.00	980088.567	32.95	23.12
206-A-10	38 57.82	-77 36.60	383.74	980082.776	30.14	17.05
206-A-11SE5	38 54.98	-77 30.82	294.00	980088.662	31.75	21.72
206-A-12	38 56.28	-77 32.52	335.08	980080.670	25.71	14.28

Station Number	Latitude	Longitude	Elevation	Observed Gravity	Free Air Gravity	Bouguer Gravity
206-A-13SE6	38 57.17	-77 34.83	358.00	980079.406	25.30	13.09
206-A-14	38 57.12	-77 31.02	290.42	980086.021	25.63	15.73
206-A-15	38 58.02	-77 32.05	303.74	980083.504	23.05	12.69
206-A-16SE7	38 59.47	-77 30.17	295.00	980092.302	28.89	18.83
206-A-17	38 59.78	-77 31.73	341.54	980086.890	27.39	15.74
206-A-18SE8	38 58.73	-77 33.48	393.00	980080.748	27.63	14.23
206-B-1	38 58.52	-77 38.40	320.98	980089.660	30.09	19.14
206-B-2SE1	38 59.47	-77 39.73	558.00	980069.474	30.80	11.77
206-B-3	38 59.72	-77 40.58	463.67	980066.866	18.95	3.14
206-B-4	38 58.67	-77 39.37	345.82	980085.095	27.64	15.85
206-B-5SE2	38 58.47	-77 41.78	487.00	980059.716	15.83	-.78
206-B-6SE3	38 58.38	-77 42.62	486.00	980057.242	13.39	-3.19
206-B-7	38 58.13	-77 44.13	491.96	980052.518	9.59	-7.19
206-B-8SE4	38 56.73	-77 42.22	486.00	980060.639	19.21	2.64
206-B-9SE5	38 55.12	-77 43.53	531.00	980054.926	20.11	2.00
206-B-10SE6	38 55.35	-77 41.37	649.00	980060.551	36.49	14.35
206-B-11SE7	38 53.52	-77 41.50	879.00	980048.058	48.32	18.34
206-B-12SE8	38 57.48	-77 40.47	562.00	980067.464	32.08	12.91
206-B-13	38 54.02	-77 37.65	375.52	980077.136	29.31	16.50
206-B-14SE9	38 54.23	-77 39.53	477.00	980073.284	34.68	18.41
206-B-15SE10	38 53.10	-77 40.18	503.00	980068.947	34.46	17.30
206-B-16	38 55.02	-77 37.78	393.14	980078.342	30.70	17.29
206-B-17	38 55.78	-77 37.88	418.78	980079.562	33.21	18.92
206-B-18	38 56.68	-77 37.78	424.56	980080.862	33.73	19.25
206-B-19	38 56.45	-77 44.55	425.76	980055.290	8.61	-5.91
206-B-20	38 55.43	-77 44.67	579.03	980046.187	15.42	-4.33
206-B-21	38 54.37	-77 44.95	473.17	980050.875	11.72	-4.42
206-B-22	38 53.63	-77 44.97	514.76	980050.741	16.57	-.98
206-C-1	38 51.87	-77 38.22	407.59	980073.585	31.93	18.03
206-C-2	38 50.98	-77 38.30	355.37	980072.856	27.59	15.47
206-C-3	38 49.30	-77 37.83	300.72	980070.766	22.83	12.57
206-C-4	38 47.55	-77 37.52	310.83	980068.197	23.78	13.18
206-C-5	38 47.00	-77 39.82	344.17	980063.640	23.17	11.43
206-C-6	38 46.68	-77 40.92	388.43	980062.691	26.85	13.60
206-C-7	38 46.43	-77 40.93	404.73	980061.206	27.26	13.46
206-C-8	38 45.18	-77 39.88	360.56	980062.107	25.84	13.54
206-C-9	38 45.03	-77 39.22	363.52	980063.352	27.59	15.19
206-C-10	38 45.27	-77 38.20	347.96	980064.680	27.11	15.24
206-C-11	38 46.13	-77 42.32	409.50	980057.323	24.27	10.30
206-C-12	38 46.45	-77 43.92	542.77	980052.184	31.20	12.69
206-C-13	38 47.30	-77 44.10	587.09	980056.976	38.91	18.89
206-C-14	38 48.78	-77 44.18	505.31	980066.471	38.54	21.30
206-C-15	38 49.13	-77 44.80	533.08	980063.886	38.05	19.87
206-C-16	38 48.95	-77 38.65	366.58	980065.367	24.14	11.64
206-C-17	38 49.18	-77 39.60	403.91	980065.166	27.11	13.33
206-C-18	38 49.08	-77 41.18	427.05	980065.531	29.80	15.23
206-C-19SE1	38 49.58	-77 41.33	434.00	980067.054	31.24	16.44
206-C-20	38 49.78	-77 43.30	454.00	980071.724	37.50	22.01
206-C-21SE2	38 49.25	-77 44.03	471.00	980069.147	37.30	21.24
206-C-22	38 50.25	-77 44.47	482.10	980067.222	34.95	18.51
206-C-23	38 50.57	-77 44.90	489.48	980064.575	32.53	15.84
206-C-24SE3	38 51.53	-77 41.18	583.00	980061.670	37.01	17.12
206-C-25SE4	38 52.35	-77 43.37	671.00	980057.107	39.52	16.63
206-D-1SE1	38 45.17	-77 34.45	256.00	980073.306	27.23	18.50
206-D-2	38 46.35	-77 36.82	316.34	980068.524	26.39	15.60
206-D-3	38 49.45	-77 30.23	183.32	980086.556	27.36	21.10
206-D-4	38 48.10	-77 31.20	252.20	980079.154	28.42	19.81
206-D-5SE2	38 46.10	-77 32.17	305.00	980076.039	33.20	22.80
206-D-6	38 47.38	-77 33.65	297.57	980074.162	28.74	18.59
206-D-7	38 48.83	-77 32.65	217.20	980079.574	24.47	17.06
206-D-8	38 48.55	-77 33.70	282.33	980074.391	25.83	16.20
206-D-9	38 48.10	-77 34.45	309.76	980071.906	26.58	16.02
206-D-10	38 48.20	-77 35.08	321.22	980070.742	26.35	15.39
206-D-11	38 51.13	-77 32.68	258.36	980081.474	26.86	18.05
206-D-12	38 50.98	-77 33.27	277.77	980080.824	28.26	18.78
206-D-13	38 51.25	-77 34.28	309.48	980078.159	28.18	17.63
206-D-14	38 47.80	-77 36.82	352.52	980066.846	25.98	13.96

Station Number	Latitude	Longitude	Elevation	Observed Gravity	Free Air Gravity	Bouguer Gravity
206-D-15	38 48.25	-77 30.38	216.07	980082.678	28.32	20.95
206-D-16	38 47.93	-77 36.13	341.73	980067.903	25.83	14.18
206-D-17SE3	38 49.43	-77 34.42	271.00	980077.760	26.83	17.59
206-D-18SE4	38 50.27	-77 35.68	353.00	980072.231	27.79	15.75
206-D-19SE5	38 51.53	-77 35.25	345.00	980076.132	29.08	17.31
207-A-1	38 58.52	-77 48.62	468.31	980042.718	-3.00	-18.97
207-A-2	38 59.33	-77 51.87	519.97	980037.471	-4.58	-22.32
207-A-3SE1	38 59.23	-77 50.58	464.00	980043.262	-3.91	-19.74
207-A-4SE2	38 57.75	-77 51.58	548.00	980035.589	-1.50	-20.19
207-A-5	38 58.33	-77 47.47	363.35	980050.811	-4.51	-16.90
207-A-6SE3	38 57.45	-77 45.98	525.00	980044.832	6.02	-11.89
207-A-7	38 57.58	-77 48.95	518.95	980038.657	-.92	-18.62
207-A-8	38 56.15	-77 49.63	528.49	980036.689	.11	-17.91
207-A-9SE4	38 56.73	-77 50.65	538.00	980035.524	-1.01	-19.36
207-A-10	38 55.63	-77 50.45	510.44	980036.424	-1.09	-18.50
207-A-11	38 54.95	-77 52.18	434.05	980036.460	-7.23	-22.04
207-A-12	38 53.93	-77 51.08	702.00	980021.786	4.79	-19.15
207-A-13	38 52.63	-77 51.35	652.01	980022.976	3.19	-19.05
207-A-14	38 55.85	-77 48.60	415.75	980044.259	-2.48	-16.66
207-A-15SE5	38 55.38	-77 47.12	577.00	980037.973	7.09	-12.59
207-A-16	38 54.98	-77 46.63	540.74	980041.717	8.01	-10.43
207-A-17SE6	38 54.03	-77 46.25	617.00	980039.129	13.99	-7.05
207-A-18SE7	38 54.17	-77 47.42	659.00	980032.115	10.73	-11.75
207-A-19SE8	38 53.28	-77 48.08	688.00	980028.250	10.89	-12.57
207-A-20SE9	38 54.38	-77 48.68	591.00	980033.524	5.43	-14.73
207-B-1	38 59.60	-77 52.90	*162.42	980033.617	-7.62	-25.79
207-B-2	38 59.00	-77 53.50	*186.72	980027.183	-5.67	-26.56
207-B-3	38 57.40	-77 54.30	*150.11	980030.515	-11.28	-28.08
207-B-4	38 55.80	-77 55.20	*176.55	980022.015	-9.27	-29.03
207-B-5	38 54.50	-77 58.70	*180.68	980013.991	-14.11	-34.33
207-B-6	38 59.85	-77 53.80	576.77	980027.971	-9.50	-29.17
207-B-7	38 59.48	-77 56.95	629.54	980015.539	-16.43	-37.90
207-B-8	38 58.48	-77 57.48	701.90	980009.501	-14.19	-38.13
207-B-9	38 57.47	-77 59.03	847.31	979995.875	-12.65	-41.55
207-B-10	38 54.83	-77 55.32	451.00	980027.328	-14.60	-29.98
207-B-11	38 56.60	-77 54.82	566.32	980025.063	-8.61	-27.93
207-B-12	38 52.52	-77 53.78	685.73	980015.163	-1.28	-24.67
207-B-13	38 52.77	-77 54.33	577.34	980020.919	-6.09	-25.78
207-B-14	38 53.38	-77 54.47	507.48	980025.133	-9.35	-26.66
207-B-15	38 53.73	-77 54.80	592.56	980020.325	-6.67	-26.88
207-B-16	38 54.07	-77 55.58	602.02	980016.969	-9.63	-30.16
207-C-1	38 51.87	-77 52.83	591.74	980021.887	-2.44	-22.63
207-C-2	38 51.70	-77 53.38	574.09	980021.725	-4.02	-23.60
207-C-3	38 51.23	-77 54.18	636.48	980017.462	-1.73	-23.44
207-C-4	38 49.68	-77 55.72	636.50	980014.327	-2.59	-24.30
207-C-5	38 49.83	-77 56.65	653.66	980012.212	-3.31	-25.60
207-C-6	38 48.10	-77 55.72	607.82	980012.571	-4.72	-25.45
207-C-7	38 46.58	-77 54.32	537.93	980020.224	-1.41	-19.76
207-C-8	38 45.60	-77 53.73	529.80	980022.776	1.82	-16.25
207-C-9	38 46.90	-77 59.12	610.71	980006.661	-8.59	-29.42
207-C-10	38 46.57	-77 58.83	613.83	980005.827	-8.64	-29.58
207-C-11	38 45.77	-77 58.43	553.31	980009.822	-9.17	-28.04
207-C-12	38 45.07	-77 57.78	619.02	980006.853	-4.93	-26.04
207-C-13	38 45.27	-77 57.72	648.23	980005.096	-4.23	-26.34
207-C-14	38 49.90	-77 59.98	682.90	980001.494	-11.38	-34.67
207-C-15	38 51.05	-77 59.78	611.50	980008.006	-13.27	-34.12
207-C-16	38 52.15	-77 59.72	696.46	980003.688	-11.21	-34.96
207-D-1	38 48.55	-77 45.52	644.12	980055.071	40.54	18.57
207-D-2	38 47.80	-77 46.07	577.01	980057.060	37.31	17.63
207-D-3SE1	38 47.28	-77 46.88	677.00	980049.648	40.07	16.98
207-D-4	38 51.75	-77 46.38	602.78	980045.148	22.03	1.47
207-D-5	38 49.90	-77 48.77	632.45	980032.454	14.84	-6.73
207-D-6SE2	38 46.43	-77 49.47	627.00	980043.258	30.22	8.84
207-D-7	38 45.42	-77 50.07	697.14	980038.053	33.11	9.33
207-D-8	38 45.38	-77 50.70	728.44	980032.038	30.08	5.24
207-D-9SE3	38 45.18	-77 48.93	590.00	980050.314	35.63	15.51
207-D-10SE4	38 48.30	-77 48.82	624.00	980041.626	25.57	4.28

Station Number	Latitude	Longitude	Elevation	Observed Gravity	Free Air Gravity	Bouguer Gravity
207-D-11	38 51.28	-77 50.32	636.74	980025.513	6.27	-15.45
207-D-12SE5	38 50.02	-77 51.38	504.00	980030.053	.19	-17.00
207-D-13	38 51.75	-77 52.27	614.77	980021.985	-.01	-20.98
207-D-14	38 51.75	-77 51.72	675.15	980019.782	3.47	-19.56
207-D-15	38 52.02	-77 51.33	680.89	980020.534	4.37	-18.86
207-D-16	38 52.07	-77 51.00	656.43	980023.042	4.50	-17.89
207-D-17	38 52.12	-77 50.30	648.88	980024.822	5.50	-16.63
207-D-18	38 52.05	-77 49.60	634.97	980027.753	7.22	-14.44
207-D-19	38 51.57	-77 49.20	648.53	980027.573	9.02	-13.10
207-D-20	38 51.85	-77 48.62	668.24	980028.542	11.43	-11.36
207-D-21	38 52.00	-77 49.05	652.77	980027.698	8.91	-13.35
207-D-22	38 52.02	-77 47.85	622.79	980033.362	11.73	-9.51
207-D-23	38 51.83	-77 47.00	576.08	980041.437	15.68	-3.97
207-D-24SE6	38 47.97	-77 51.87	415.00	980034.280	-.95	-15.10
207-D-25	38 46.28	-77 52.03	431.09	980033.774	2.53	-12.17
207-D-26SE7	38 45.25	-77 52.42	417.00	980034.227	3.17	-11.05
207-D-27SE8	38 47.30	-77 52.03	400.00	980034.633	-1.03	-14.67
214-B-1SE1	39 13.15	-77 28.68	295.00	980091.458	7.91	-2.15
214-B-2SE2	39 13.92	-77 29.85	348.00	980087.185	7.49	-4.37
214-C-1	39 4.62	-77 29.62	321.00	980092.207	23.67	12.72
214-C-2	39 3.52	-77 28.85	284.65	980097.932	27.59	17.88
214-C-3SE1	39 2.75	-77 29.20	291.00	980096.281	27.67	17.74
214-C-4	39 1.70	-77 29.20	285.31	980096.364	28.76	19.03
214-C-5	39 .75	-77 28.67	271.39	980097.696	30.18	20.92
214-C-6SE2	39 1.62	-77 27.55	248.00	980100.985	29.99	21.53
214-C-7	39 .37	-77 25.60	311.71	980100.301	37.14	26.51
214-C-8	39 .37	-77 23.18	260.80	980106.348	38.40	29.50
214-C-9SE3	39 3.60	-77 22.80	198.00	980110.192	31.58	24.83
214-C-10SE4	39 2.02	-77 24.45	293.00	980100.825	33.48	23.48
214-C-11SE5	39 4.07	-77 25.82	204.00	980104.133	25.40	18.44
214-C-12SE6	39 3.35	-77 27.00	240.00	980103.103	28.81	20.62
214-D-1	39 .35	-77 22.45	237.60	980108.958	38.85	30.75
214-D-2	39 2.27	-77 20.37	347.16	980109.098	46.48	34.64
214-D-3	39 1.43	-77 20.60	434.35	980102.681	49.49	34.67
214-D-4SE1	39 1.80	-77 19.27	276.00	980115.506	46.88	37.46
214-D-5SE2	39 1.75	-77 18.32	354.00	980112.305	51.09	39.01
214-D-6SE3	39 1.53	-77 17.65	345.00	980114.671	52.92	41.16
214-D-7SE4	39 1.30	-77 16.17	332.00	980117.408	54.78	43.46
215-A-1	39 8.10	-77 35.50	639.64	980074.142	30.45	8.63
215-A-2	39 8.37	-77 36.68	612.30	980070.459	23.80	2.92
215-A-3	39 7.85	-77 37.45	758.70	980059.655	27.53	1.65
215-A-4	39 8.22	-77 32.82	255.96	980090.772	10.82	2.09
215-A-5	39 8.95	-77 32.52	256.36	980090.949	9.95	1.21
215-A-6	39 10.68	-77 32.22	244.70	980093.941	9.30	.95
215-A-7	39 11.48	-77 32.22	257.54	980094.579	9.96	1.18
215-A-8	39 12.33	-77 32.23	293.90	980092.939	10.49	.47
215-A-9	39 13.27	-77 32.07	309.83	980092.571	10.25	-.32
215-A-10	39 14.12	-77 31.98	281.51	980095.248	9.01	-.59
215-A-11SE1	39 12.30	-77 30.58	326.00	980087.390	8.01	-3.11
215-A-12	39 12.48	-77 33.75	588.52	980077.496	22.54	2.47
215-A-13	39 12.40	-77 34.63	540.15	980079.851	20.47	2.05
215-A-14	39 12.28	-77 35.52	475.14	980079.432	14.11	-2.10
215-A-15	39 11.52	-77 36.17	451.22	980079.745	13.30	-2.09
215-A-16	39 10.83	-77 36.75	374.63	980082.528	9.88	-2.89
215-A-17	39 12.67	-77 36.78	487.20	980076.102	11.35	-5.27
215-A-18	39 12.67	-77 36.22	430.64	980080.628	10.55	-4.14
215-A-19	39 13.00	-77 35.18	407.68	980084.192	11.47	-2.44
215-A-20	39 14.48	-77 34.75	370.47	980088.161	9.75	-2.89
215-A-21SE2	39 14.68	-77 37.17	453.00	980078.961	8.02	-7.43
215-B-1	39 8.18	-77 37.58	574.58	980068.737	18.80	-.80
215-B-2	39 8.08	-77 39.85	505.66	980065.096	8.82	-8.42
215-B-3	39 7.63	-77 40.28	490.76	980064.253	7.24	-9.50
215-B-4	39 8.15	-77 41.82	485.86	980060.679	2.45	-14.12
215-B-5	39 8.27	-77 43.03	576.01	980052.447	2.52	-17.12
215-B-6	39 11.67	-77 44.98	559.76	980048.622	-7.84	-26.93
215-B-7	39 11.93	-77 43.55	537.50	980053.369	-5.58	-23.91
215-B-8	39 12.35	-77 44.37	596.21	980046.983	-7.05	-27.39

Station Number	Latitude	Longitude	Elevation	Observed Gravity	Free Air Gravity	Bouguer Gravity
215-B-9	39 12.93	-77 44.67	579.70	980047.188	-9.26	-29.03
215-B-10	39 8.92	-77 41.45	544.23	980058.390	4.52	-14.04
215-B-11	39 9.88	-77 41.43	490.96	980062.809	2.51	-14.24
215-B-12SE1	39 10.65	-77 39.68	503.00	980065.587	5.29	-11.87
215-B-13	39 11.52	-77 40.50	413.87	980067.600	-2.36	-16.48
215-B-14	39 12.43	-77 40.15	452.57	980066.327	-1.34	-16.78
215-B-15	39 13.02	-77 39.72	423.77	980070.561	-.68	-15.13
215-B-16	39 13.00	-77 39.12	397.37	980074.726	1.03	-12.52
215-B-17	39 12.78	-77 38.35	377.52	980077.767	2.52	-10.35
215-B-18	39 13.93	-77 39.35	504.39	980068.139	3.14	-14.07
215-B-19	39 14.68	-77 39.17	440.46	980072.370	.25	-14.77
215-B-20	39 11.75	-77 42.50	523.55	980057.556	-2.43	-20.29
215-B-21SE2	39 13.12	-77 42.18	564.00	980054.272	-3.92	-23.16
215-B-22SE3	39 12.82	-77 41.23	532.00	980058.499	-2.26	-20.41
215-B-23SE4	39 10.52	-77 43.47	571.00	980052.872	-.84	-20.31
215-B-24	39 13.73	-77 44.27	721.16	980040.839	-3.48	-28.08
215-C-1	39 5.68	-77 38.00	527.74	980075.584	24.92	6.92
215-C-2	39 6.65	-77 37.77	794.08	980058.376	31.34	4.26
215-C-3BR1	39 6.50	-77 39.18	408.00	980072.772	9.64	-4.27
215-C-4BR2	39 5.52	-77 40.97	325.00	980071.840	2.35	-8.73
215-C-5BR3	39 4.35	-77 41.02	314.00	980072.555	3.75	-6.96
215-C-6	39 6.68	-77 41.80	417.05	980065.133	2.59	-11.64
215-C-7	39 7.32	-77 41.18	449.41	980064.014	3.58	-11.75
215-C-8	39 6.30	-77 42.53	443.57	980061.417	1.93	-13.20
215-C-9SE1	39 6.08	-77 44.55	490.00	980053.523	-1.28	-17.99
215-C-10	39 4.97	-77 43.60	385.19	980062.202	-.81	-13.95
215-C-11SE2	39 4.35	-77 42.95	461.00	980059.387	4.41	-11.32
215-C-12	39 3.30	-77 44.38	489.73	980052.811	2.08	-14.62
215-C-13	39 2.53	-77 43.67	402.31	980059.088	1.26	-12.46
215-C-14	39 .38	-77 41.42	328.04	980069.726	8.07	-3.11
215-C-15SE3	39 1.42	-77 42.15	443.00	980061.320	8.96	-6.15
215-C-16	39 1.43	-77 41.17	286.12	980073.567	6.43	-3.33
215-C-17	39 1.95	-77 40.53	288.88	980077.643	10.00	.15
215-C-18	39 1.83	-77 39.28	296.55	980087.044	20.30	10.18
215-C-19	39 2.27	-77 38.40	278.60	980092.351	23.28	13.78
215-C-20SE4	39 4.42	-77 38.38	586.00	980073.325	30.01	10.02
215-C-21SE5	39 4.30	-77 39.42	747.00	980057.341	29.34	3.86
215-D-1	39 6.90	-77 33.80	*106.23	980086.190	16.88	4.99
215-D-2 BASE	39 5.78	-77 34.83	357.89	980087.260	20.48	8.27
215-D-3	39 5.07	-77 35.67	412.75	980084.959	24.39	10.31
215-D-4	39 4.60	-77 36.38	387.00	980088.570	26.26	13.06
215-D-5	39 3.07	-77 37.15	378.68	980088.166	27.33	14.42
215-D-6	39 1.60	-77 37.28	276.62	980092.967	24.69	15.25
215-D-7	39 2.22	-77 36.75	317.30	980088.879	23.52	12.70
215-D-8	39 2.37	-77 35.78	445.97	980078.775	25.30	10.09
215-D-9	39 1.60	-77 35.07	292.65	980086.858	20.09	10.11
215-D-10	39 .98	-77 34.57	303.63	980086.535	21.71	11.35
215-D-11SE1	39 3.88	-77 34.42	352.00	980084.270	19.72	7.72
215-D-12	39 6.73	-77 33.97	315.67	980088.716	16.56	5.79
215-D-13SE2	39 6.82	-77 36.17	394.00	980088.056	23.15	9.71
215-D-14	39 5.45	-77 33.23	354.69	980086.014	19.42	7.32
215-D-15	39 3.65	-77 33.17	288.98	980087.588	17.46	7.60
215-D-16	39 2.27	-77 31.58	444.31	980080.355	26.87	11.72
215-D-17SE3	39 6.82	-77 31.02	272.00	980087.910	11.52	2.25
215-D-18	39 5.87	-77 32.02	267.28	980088.963	13.53	4.41
215-D-19SE4	39 3.82	-77 30.67	295.00	980091.068	21.26	11.20
215-D-20	39 .62	-77 31.93	318.63	980087.184	24.30	13.44
215-D-21	39 1.05	-77 30.97	365.10	980086.927	27.78	15.33
216-A-1	39 8.10	-77 45.55	518.02	980049.851	-5.28	-22.95
216-A-2SE1	39 9.50	-77 46.22	655.00	980040.224	-4.09	-26.43
216-A-3	39 7.70	-77 51.70	630.19	980030.869	-13.13	-34.62
216-A-4	39 10.25	-77 46.17	641.35	980040.616	-6.08	-27.96
216-A-5	39 10.90	-77 45.37	634.23	980044.262	-4.06	-25.69
216-A-6	39 13.77	-77 45.12	636.09	980042.612	-9.76	-31.45
216-A-7	39 14.75	-77 46.87	592.57	980040.986	-16.93	-37.14
216-A-8	39 14.80	-77 47.70	509.61	980043.472	-22.32	-39.70
216-A-9	39 13.43	-77 48.82	395.86	980044.999	-29.48	-42.98

Station Number	Latitude	Longitude	Elevation	Observed Gravity	Free Air Gravity	Bouguer Gravity
216-A-10	39 10.82	-77 49.88	779.55	980022.925	-11.61	-38.20
216-A-11SE2	39 7.77	-77 46.90	579.00	980043.684	-5.22	-24.97
216-B-1	39 8.20	-77 56.00	* 157.04	980022.628	-32.92	-50.49
216-B-2	39 7.50	-77 53.60	* 120.23	980032.691	-33.18	-46.64
216-B-3	39 8.30	-77 59.50	* 180.36	980012.140	-36.35	-56.54
216-B-4	39 9.28	-77 59.25	601.48	980012.147	-36.88	-57.39
216-B-5	39 9.55	-77 58.68	620.11	980012.250	-35.42	-56.57
216-B-6	39 10.40	-77 58.25	599.15	980014.584	-36.30	-56.74
216-B-7	39 11.13	-77 58.20	618.81	980013.771	-36.35	-57.45
216-B-8	39 11.75	-77 57.80	586.71	980016.717	-37.33	-57.34
216-B-9	39 12.70	-77 57.53	632.97	980014.789	-36.30	-57.89
216-B-10	39 12.42	-77 59.98	611.61	980013.793	-38.89	-59.75
216-B-11	39 13.67	-77 57.23	617.30	980016.499	-37.49	-58.55
216-B-12	39 14.22	-77 57.33	593.79	980018.142	-38.87	-59.12
216-B-13	39 13.23	-77 55.67	572.59	980021.617	-35.94	-55.47
216-B-14	39 13.10	-77 54.32	534.46	980027.356	-33.59	-51.82
216-B-15	39 12.62	-77 53.20	516.76	980030.501	-31.40	-49.03
216-B-16	39 8.50	-77 56.52	561.55	980018.773	-32.85	-52.01
216-B-17	39 8.80	-77 54.58	483.45	980029.139	-30.28	-46.77
216-B-18	39 9.88	-77 54.55	499.41	980027.540	-31.97	-49.00
216-B-19	39 9.98	-77 53.55	537.39	980027.131	-28.95	-47.28
216-B-20	39 11.05	-77 52.52	408.48	980037.121	-32.66	-46.59
216-C-1	39 7.30	-77 52.63	644.73	980026.763	-15.27	-37.26
216-C-2	39 0.35	-77 57.18	797.73	980005.970	-11.45	-38.66
216-C-3	39 1.68	-77 58.73	632.51	980015.161	-19.76	-41.34
216-C-4	39 2.30	-77 59.78	437.92	980014.878	-39.26	-54.19
216-C-5	39 2.35	-77 58.35	660.70	980013.418	-19.83	-42.37
216-C-6	39 2.73	-77 57.57	792.30	980008.951	-12.49	-39.51
216-C-7	39 3.48	-77 57.08	632.31	980017.950	-19.64	-41.21
216-C-8	39 4.38	-77 57.02	441.46	980022.819	-34.05	-49.10
216-C-9	39 6.20	-77 54.55	381.34	980034.050	-31.14	-44.15
216-C-10	39 0.12	-77 56.05	716.38	980013.574	-11.16	-35.59
216-C-11	39 0.02	-77 54.78	624.68	980020.794	-12.42	-33.72
216-C-12	39 2.57	-77 54.73	1668.95	979967.032	28.30	-28.63
216-C-13	39 3.20	-77 53.97	1760.48	979962.383	31.33	-28.72
216-C-14	39 4.55	-77 52.95	1661.67	979972.055	29.72	-26.96
216-D-1	39 4.00	-77 45.03	450.63	980053.974	-1.47	-16.84
216-D-2SE1	39 5.08	-77 47.23	493.00	980047.055	-5.99	-22.81
216-D-3	39 5.40	-77 47.77	489.46	980045.567	-8.28	-24.97
216-D-4	39 5.73	-77 48.47	578.25	980038.472	-7.51	-27.24
216-D-5	39 6.33	-77 49.48	604.59	980036.699	-7.69	-28.31
216-D-6	39 7.22	-77 49.10	668.41	980034.740	-4.95	-27.75
216-D-7	39 6.87	-77 50.13	859.45	980023.308	2.10	-27.21
216-D-8	39 7.10	-77 51.78	698.42	980028.127	-8.57	-32.39
216-D-9	39 6.58	-77 50.95	1301.48	979998.767	19.56	-24.83
216-D-10	39 4.90	-77 52.10	1650.76	979974.113	30.24	-26.07
216-D-11	39 4.75	-77 49.83	613.99	980033.402	-7.78	-28.72
216-D-12	39 3.97	-77 49.73	584.14	980035.751	-7.08	-27.01
216-D-13	39 3.10	-77 49.50	572.39	980037.417	-5.25	-24.77
216-D-14	39 2.52	-77 50.20	569.26	980035.728	-6.37	-25.79
216-D-15	39 .72	-77 50.65	570.59	980034.266	-5.06	-24.52
216-D-16	39 .32	-77 49.55	539.00	980038.511	-3.20	-21.58
216-D-17	39 1.03	-77 48.85	530.85	980039.603	-3.93	-22.03
216-D-18	39 2.15	-77 47.32	472.76	980046.309	-4.33	-20.45
216-D-19SE2	39 .80	-77 45.53	490.00	980049.026	2.00	-14.72
216-D-20	39 2.80	-77 46.57	447.89	980049.143	-4.79	-20.07
216-D-21SE3	39 7.08	-77 46.25	570.00	980045.480	-3.27	-22.71
221-C-1	39 15.60	-77 38.67	486.74	980072.077	2.96	-13.64
221-C-2	39 16.35	-77 38.20	503.54	980072.860	4.22	-12.96
221-C-3	39 17.17	-77 38.32	497.89	980072.158	1.78	-15.20
221-C-4	39 17.57	-77 43.28	571.63	980050.987	-13.05	-32.54
221-C-5SE1	39 16.25	-77 43.55	606.00	980048.812	-10.05	-30.72
221-C-6SE2	39 18.32	-77 43.18	503.00	980055.664	-15.93	-33.08
221-C-7SE3	39 17.27	-77 39.77	405.00	980073.012	-6.25	-20.07
221-C-8SE4	39 17.90	-77 40.40	469.00	980067.498	-6.68	-22.68
221-C-9SE5	39 15.58	-77 41.72	602.00	980053.305	-4.95	-25.48
221-C-10SE6	39 15.32	-77 40.60	536.00	980061.997	-2.07	-20.35

Station Number	Latitude	Longitude	Elevation	Observed Gravity	Free Air Gravity	Bouguer Gravity
221-D-1SE1	39 17.37	-77 37.03	401.00	980081.706	1.92	-11.76
221-D-2	39 16.13	-77 37.22	437.10	980079.349	4.78	-10.13
221-D-3	39 16.05	-77 35.55	444.51	980083.123	9.37	-5.79
221-D-4	39 15.28	-77 34.60	272.06	980094.278	5.43	-3.85
221-D-5	39 16.30	-77 32.87	253.28	980099.597	7.49	-1.15
221-D-6	39 15.50	-77 32.65	280.87	980096.117	7.78	-1.80

APPENDIX III: PRINCIPAL FACTS FOR POINTS IN SHEET 12

Station Number	Latitude	Longitude	Elevation	Observed Gravity	Free Air Gravity	Bouguer Gravity
122-A-1	37 44.18	-76 21.77	75.98	979959.015	-14.88	-17.47
122-A-2	37 43.32	-76 22.20	79.91	979958.911	-13.35	-16.08
122-A-3SE1	37 42.63	-76 19.18	8.00	979958.970	-19.06	-19.33
122-A-4	37 41.68	-76 22.47	31.61	979961.550	-12.88	-13.96
122-A-5SE2	37 39.55	-76 21.00	5.00	979961.125	-12.70	-12.87
122-A-6	37 37.80	-76 21.80	9.81	979960.675	-10.16	-10.49
122-A-7	37 37.75	-76 18.80	4.78	979957.354	-13.88	-14.04
122-A-8	37 37.98	-76 18.53	3.31	979957.347	-14.36	-14.48
122-B-1	37 44.58	-76 25.33	20.82	979965.325	-14.34	-15.05
122-B-2	37 42.65	-76 22.80	87.10	979958.334	-12.28	-15.25
122-B-3	37 42.33	-76 22.75	87.61	979958.106	-12.00	-14.99
122-B-4	37 39.73	-76 23.12	43.22	979959.257	-11.24	-12.72
122-B-5	37 38.28	-76 24.58	34.30	979958.172	-11.06	-12.23
122-B-6	37 38.92	-76 23.40	48.50	979958.362	-10.45	-12.11
122-B-7	37 38.45	-76 22.73	32.53	979959.345	-10.30	-11.41
122-B-8	37 42.22	-76 23.83	103.62	979956.738	-11.69	-15.23
122-B-9	37 41.62	-76 24.68	80.20	979957.747	-12.01	-14.75
122-B-10	37 41.15	-76 25.40	48.13	979958.856	-13.25	-14.89
122-B-11	37 40.83	-76 26.13	29.92	979959.572	-13.78	-14.80
122-B-12	37 40.23	-76 26.93	22.59	979959.369	-13.80	-14.57
122-B-13	37 39.18	-76 26.98	19.18	979959.713	-12.25	-12.90
122-B-14	37 42.33	-76 26.97	36.49	979962.488	-12.43	-13.67
122-B-15SE1	37 44.90	-76 25.35	83.00	979963.615	-10.66	-13.49
122-B-16SE2	37 43.45	-76 28.80	84.00	979963.433	-8.64	-11.50
122-B-17	37 40.20	-76 29.40	30.71	979960.813	-11.54	-12.59
122-C-1	37 30.48	-76 29.28	16.58	979960.770	1.20	.64
122-C-2	37 30.27	-76 23.92	35.06	979949.604	-7.91	-9.11
122-C-3	37 30.43	-76 25.20	33.98	979952.997	-4.86	-6.02
122-C-4	37 30.77	-76 25.22	18.49	979954.738	-5.06	-5.69
122-C-5	37 32.25	-76 25.58	68.40	979956.068	-1.19	-3.52
122-C-6	37 32.42	-76 25.97	71.52	979956.880	-.33	-2.77
122-C-7	37 33.05	-76 26.73	76.06	979958.559	.86	-1.74
122-C-8	37 33.03	-76 24.32	46.72	979957.590	-2.85	-4.44
122-C-9	37 33.35	-76 23.32	45.94	979956.406	-4.56	-6.13
122-C-10	37 33.30	-76 27.13	75.18	979958.655	.51	-2.06
122-C-11	37 33.53	-76 28.23	90.88	979956.932	-.08	-3.18
122-C-12	37 34.13	-76 28.65	94.25	979957.226	-.34	-3.55
122-C-13	37 34.90	-76 29.25	96.49	979957.872	-.59	-3.89
122-C-14	37 35.57	-76 29.97	94.49	979958.955	-.67	-3.89
122-C-15	37 35.32	-76 28.42	40.21	979961.897	-2.47	-3.84
122-C-16	37 35.67	-76 27.42	32.97	979961.568	-3.99	-5.11
122-C-17	37 35.97	-76 26.72	28.54	979960.962	-5.45	-6.42
122-C-18	37 36.83	-76 26.02	27.74	979960.019	-7.72	-8.67
122-C-19	37 35.88	-76 27.13	31.82	979961.325	-4.65	-5.74
122-C-20	37 33.85	-76 26.48	69.82	979959.125	-.32	-2.71
122-C-21	37 33.98	-76 25.47	60.18	979959.170	-1.38	-3.43
122-C-22	37 34.85	-76 25.13	30.81	979960.232	-4.34	-5.39
122-D-1	37 37.45	-76 20.82	6.89	979960.458	-10.14	-10.38
122-D-2	37 37.50	-76 19.72	6.39	979959.106	-11.61	-11.83
122-D-3	37 36.97	-76 17.58	2.97	979954.633	-15.63	-15.73
122-D-4SE1	37 30.65	-76 17.37	6.00	979945.234	-15.57	-15.78
122-D-5	37 33.27	-76 21.78	41.60	979953.762	-7.49	-8.91
122-D-6	37 33.25	-76 20.48	19.64	979952.610	-10.69	-11.36
122-D-7	37 33.23	-76 19.17	10.85	979951.118	-12.98	-13.35
122-D-8SE2	37 33.37	-76 18.00	6.00	979950.860	-13.89	-14.09
123-A-1	37 44.75	-76 33.20	40.10	979970.206	-7.88	-9.25
123-A-2	37 44.15	-76 32.62	56.11	979968.363	-7.35	-9.26
123-A-3	37 42.77	-76 31.77	38.88	979966.776	-8.54	-9.87
123-A-4	37 42.10	-76 31.35	39.31	979965.264	-9.05	-10.39

* Denotes elevation in meters

BR Denotes bridge elevation

SE Denotes checked spot elevation

Station Number	Latitude	Longitude	Elevation	Observed Gravity	Free Air Gravity	Bouguer Gravity
123-A-5SE1	37 40.50	-76 30.10	34.00	979961.745	-10.74	-11.90
123-A-6SE2	37 39.37	-76 31.08	13.00	979966.432	-6.38	-6.82
123-A-7SE3	37 41.18	-76 36.50	24.00	979970.386	-4.03	-4.85
123-A-8SE4	37 43.38	-76 36.47	8.00	979975.348	-3.77	-4.05
123-A-9SE5	37 38.27	-76 35.23	38.00	979966.841	-2.02	-3.32
123-A-10SE6	37 39.52	-76 34.72	8.00	979970.260	-3.24	-3.51
123-A-11SE7	37 39.63	-76 37.15	66.00	979964.789	-3.42	-5.68
123-B-1	37 44.58	-76 43.27	123.18	979969.916	-.12	-4.32
123-B-2	37 43.45	-76 43.18	115.18	979968.889	-.25	-4.18
123-B-3	37 43.12	-76 42.22	108.21	979968.247	-1.06	-4.75
123-B-4	37 42.55	-76 41.48	107.41	979966.915	-1.64	-5.31
123-B-5SE1	37 44.68	-76 40.25	103.00	979972.654	.58	-2.94
123-B-6SE2	37 44.03	-76 37.93	35.00	979974.513	-3.01	-4.21
123-B-7	37 41.60	-76 41.08	105.20	979964.766	-2.62	-6.21
123-B-8	37 41.95	-76 40.10	103.53	979967.374	-.68	-4.21
123-B-9	37 42.03	-76 39.05	91.04	979968.442	-.91	-4.01
123-B-10	37 42.03	-76 38.27	82.86	979968.406	-1.71	-4.54
123-B-11	37 40.65	-76 40.70	102.84	979963.052	-3.17	-6.68
123-B-12	37 40.30	-76 40.02	104.81	979962.633	-2.90	-6.47
123-B-13	37 40.82	-76 41.95	104.31	979962.930	-3.40	-6.96
123-B-14SE3	37 41.08	-76 43.53	50.00	979968.919	-2.91	-4.61
123-B-15	37 38.57	-76 40.57	101.52	979960.911	-2.41	-5.87
123-B-16	37 37.63	-76 42.43	92.22	979966.240	3.40	.26
123-B-17SE4	37 39.27	-76 44.08	104.00	979965.759	1.65	-1.89
123-B-18	37 38.12	-76 38.58	101.69	979961.744	-.91	-4.38
123-B-19	37 39.80	-76 39.68	95.08	979962.184	-3.54	-6.78
123-B-20	37 38.92	-76 39.15	100.76	979961.337	-2.57	-6.00
123-C-1	37 30.50	-76 37.92	94.99	979956.314	4.10	.86
123-C-2	37 37.43	-76 37.80	96.84	979962.464	.35	-2.95
123-C-3	37 33.77	-76 38.07	117.04	979962.637	7.75	3.76
123-C-4	37 33.88	-76 39.17	105.09	979964.666	8.49	4.90
123-C-5	37 33.53	-76 39.68	121.96	979962.765	8.68	4.52
123-C-6	37 33.32	-76 40.17	115.92	979962.339	8.00	4.05
123-C-7	37 32.62	-76 41.75	93.21	979959.400	3.94	.76
123-C-8	37 32.67	-76 42.28	91.76	979959.222	3.55	.42
123-C-9	37 32.92	-76 43.48	88.72	979960.506	4.19	1.16
123-C-10	37 33.00	-76 44.07	79.23	979961.909	4.58	1.88
123-C-11	37 34.73	-76 40.67	117.72	979965.490	9.26	5.25
123-C-12	37 35.03	-76 41.83	113.76	979964.867	7.83	3.95
123-C-13	37 36.50	-76 43.17	112.34	979965.148	5.85	2.02
123-C-14	37 37.07	-76 44.30	123.70	979964.504	5.45	1.23
123-C-15	37 35.63	-76 43.83	112.69	979963.915	5.91	2.06
123-C-16	37 30.55	-76 43.90	56.79	979956.116	.23	-1.70
123-C-17	37 31.77	-76 41.40	107.39	979956.335	3.44	-.22
123-C-18	37 30.75	-76 40.80	108.12	979954.276	2.93	-.76
123-D-1	37 33.93	-76 36.75	89.47	979963.794	6.07	3.02
123-D-2	37 34.57	-76 36.20	54.67	979966.180	4.27	2.40
123-D-3	37 35.12	-76 36.25	18.00	979968.356	2.19	1.58
123-D-4	37 36.07	-76 35.97	90.25	979963.031	2.28	-.79
123-D-5	37 36.35	-76 35.55	89.66	979963.131	1.92	-1.14
123-D-6	37 36.47	-76 36.12	100.47	979962.096	1.73	-1.70
123-D-7	37 36.93	-76 37.02	99.42	979962.466	1.32	-2.07
123-D-8	37 33.03	-76 34.63	36.04	979964.559	3.12	1.89
123-D-9	37 32.82	-76 33.63	48.81	979962.057	2.13	.47
123-D-10	37 32.08	-76 32.77	96.74	979956.736	2.39	-.91
123-D-11	37 31.77	-76 30.77	9.77	979960.757	-1.32	-1.65
123-D-12	37 31.12	-76 30.32	85.49	979955.533	1.53	-1.39
123-D-13	37 31.25	-76 34.32	86.16	979959.152	5.01	2.08
123-D-14	37 30.67	-76 35.57	117.46	979956.545	6.20	2.19
123-D-15	37 36.03	-76 35.17	94.76	979962.866	2.59	-.64
123-D-16	37 35.97	-76 34.37	92.82	979962.542	2.18	-.98
123-D-17	37 37.32	-76 34.12	71.78	979964.138	-.16	-2.61
123-D-18	37 36.22	-76 33.72	92.31	979962.312	1.54	-1.61
123-D-19	37 36.53	-76 32.80	83.33	979962.517	.44	-2.40
123-D-20	37 36.20	-76 31.65	86.54	979961.696	.41	-2.55
123-D-21	37 35.90	-76 30.65	94.65	979960.229	.14	-3.09
123-D-22	37 34.35	-76 30.72	79.24	979958.659	-.63	-3.33

Station Number	Latitude	Longitude	Elevation	Observed Gravity	Free Air Gravity	Bouguer Gravity
123-D-23SE1	37 34.43	-76 31.72	73.66	979959.991	.06	-2.46
123-D-24	37 35.17	-76 33.57	81.96	979962.395	2.17	-.62
124-A-1	37 44.03	-76 48.00	107.76	979972.993	2.31	-1.37
124-A-2SE1	37 43.73	-76 49.70	138.00	979969.254	1.85	-2.86
124-A-3	37 43.87	-76 51.25	127.20	979971.258	2.65	-1.69
124-A-4	37 42.48	-76 47.07	132.28	979969.337	3.21	-1.30
124-A-5	37 41.48	-76 46.50	69.45	979972.212	1.63	-.74
124-A-6	37 40.83	-76 45.23	115.05	979967.137	1.79	-2.13
124-A-7SE2	37 41.67	-76 51.00	118.00	979969.320	3.04	-.98
124-A-8SE3	37 38.25	-76 49.80	50.00	979964.101	-3.61	-5.31
124-A-9	37 37.65	-76 47.58	109.40	979963.062	1.81	-1.92
124-A-10	37 38.28	-76 47.30	110.80	979964.541	2.50	-1.27
124-A-11SE4	37 38.50	-76 45.42	126.00	979965.131	4.21	-.09
124-A-12SE5	37 40.02	-76 46.95	136.00	979966.154	3.97	-.67
124-A-13	37 39.08	-76 47.53	132.09	979964.658	3.46	-1.04
124-A-14SE6	37 40.73	-76 48.52	126.00	979968.995	4.83	.53
124-A-15SE7	37 39.90	-76 51.50	43.00	979970.544	-.22	-1.69
124-B-1	37 43.80	-76 52.65	146.04	979969.114	2.37	-2.61
124-B-2	37 43.63	-76 53.20	146.27	979968.619	2.14	-2.85
124-B-3	37 40.18	-76 52.67	26.83	979970.271	-2.43	-3.34
124-B-4	37 41.02	-76 53.58	57.88	979968.137	-2.85	-4.83
124-B-5	37 41.50	-76 54.33	32.96	979969.975	-4.06	-5.18
124-B-6SE1	37 42.42	-76 57.23	31.00	979969.151	-6.40	-7.46
124-B-7	37 43.20	-76 55.07	124.66	979967.492	-.39	-4.64
124-B-8	37 44.08	-76 56.53	132.08	979970.091	1.62	-2.88
124-B-9	37 44.72	-76 57.57	144.08	979971.247	2.99	-1.93
124-B-10SE2	37 43.65	-76 59.12	75.00	979970.839	-2.37	-4.93
124-B-11	37 39.68	-76 57.62	128.10	979954.803	-7.64	-12.01
124-B-12	37 38.90	-76 56.53	119.87	979954.678	-7.40	-11.49
124-B-13	37 38.67	-76 55.25	118.54	979955.407	-6.46	-10.50
124-B-14	37 38.00	-76 54.03	110.18	979956.431	-5.25	-9.01
124-B-15	37 37.93	-76 56.10	122.41	979951.790	-8.65	-12.82
124-B-16	37 38.10	-76 59.15	116.56	979951.132	-10.10	-14.07
124-C-1	37 36.52	-76 59.15	103.58	979948.969	-11.18	-14.71
124-C-2	37 35.70	-76 59.62	42.83	979951.606	-13.07	-14.53
124-C-3	37 35.08	-76 59.47	22.90	979951.839	-13.81	-14.60
124-C-4SE1	37 36.03	-76 57.58	108.00	979947.766	-11.26	-14.95
124-C-5	37 35.23	-76 55.77	47.49	979951.393	-12.17	-13.79
124-C-6	37 36.18	-76 55.68	118.70	979948.941	-9.30	-13.35
124-C-7	37 30.15	-76 53.48	119.02	979936.214	-13.24	-17.29
124-C-8SE2	37 30.28	-76 56.83	88.00	979937.496	-15.06	-18.07
124-C-9	37 30.87	-76 57.80	122.72	979936.375	-13.77	-17.95
124-C-10	37 31.02	-76 59.73	138.75	979937.617	-11.23	-15.97
124-C-11BR1	37 31.88	-76 54.60	17.00	979945.885	-15.68	-16.26
124-C-12SE3	37 30.18	-76 54.92	115.00	979934.918	-14.96	-18.88
124-D-1	37 32.25	-76 45.83	29.04	979963.335	2.37	1.38
124-D-2	37 32.05	-76 46.72	9.88	979961.272	-1.20	-1.54
124-D-3	37 32.22	-76 47.18	12.00	979960.286	-2.23	-2.64
124-D-4	37 32.18	-76 47.87	10.74	979958.990	-3.60	-3.96
124-D-5	37 31.97	-76 48.67	6.32	979956.536	-5.96	-6.25
124-D-6	37 31.42	-76 49.55	13.12	979953.053	-8.20	-8.64
124-D-7	37 30.52	-76 51.27	24.81	979948.458	-10.38	-11.23
124-D-8	37 30.80	-76 49.13	9.90	979952.349	-8.31	-8.65
124-D-9	37 30.00	-76 49.27	39.22	979948.278	-8.46	-9.80
124-D-10	37 31.42	-76 45.77	14.54	979960.313	-.80	-1.30
124-D-11SE1	37 33.97	-76 48.15	14.00	979963.655	-1.21	-1.69
124-D-12SE2	37 33.47	-76 51.27	16.00	979957.850	-6.11	-6.65
124-D-13SE3	37 36.15	-76 51.62	28.00	979961.989	-4.74	-5.69
124-D-14SE4	37 34.90	-76 49.80	24.00	979960.757	-4.53	-5.35
124-D-15	37 34.67	-76 45.70	15.15	979969.329	3.55	3.03
124-D-16	37 36.17	-76 46.25	103.50	979964.758	5.11	1.58
124-D-17	37 36.78	-76 46.97	97.30	979964.420	3.29	-.03
145-A-1	37 53.33	-76 22.05	91.57	979968.851	-16.90	-20.02
145-A-2	37 53.12	-76 21.07	101.28	979965.159	-19.36	-22.81
145-A-3	37 52.85	-76 20.02	99.92	979961.665	-22.59	-26.00
145-A-4	37 54.12	-76 20.53	24.06	979970.830	-22.41	-23.23
145-A-5	37 54.85	-76 20.10	18.03	979971.133	-23.74	-24.36

Station Number	Latitude	Longitude	Elevation	Observed Gravity	Free Air Gravity	Bouguer Gravity
145-A-6	37 55.00	-76 19.28	15.45	979969.341	-25.99	-26.52
145-A-7	37 54.90	-76 18.23	11.94	979966.285	-29.23	-29.64
145-A-8	37 54.58	-76 17.35	14.37	979963.683	-31.15	-31.64
145-A-9	37 54.25	-76 16.87	13.57	979962.644	-31.77	-32.24
145-A-10SE1	37 55.43	-76 22.37	29.00	979978.022	-16.67	-17.66
145-A-11SE2	37 56.85	-76 21.67	19.00	979979.410	-18.29	-18.93
145-A-12	37 52.78	-76 15.73	12.82	979958.830	-33.52	-33.96
145-B-1BR1	37 52.62	-76 27.43	17.00	979987.467	-4.25	-4.83
145-B-2	37 52.58	-76 29.72	31.11	979988.460	-1.88	-2.94
145-B-3	37 55.05	-76 28.37	101.00	979988.082	.72	-2.72
145-B-4	37 55.30	-76 29.05	99.40	979990.253	2.38	-1.01
145-B-5	37 55.90	-76 29.82	11.57	979998.507	1.50	1.10
145-B-6	37 54.93	-76 27.25	107.33	979984.879	-1.72	-5.38
145-B-7	37 54.80	-76 26.05	107.88	979982.135	-4.21	-7.89
145-B-8	37 54.07	-76 25.48	106.50	979978.956	-6.45	-10.09
145-B-9	37 53.42	-76 24.33	112.93	979973.789	-10.07	-13.92
145-B-10	37 53.50	-76 23.12	94.16	979971.746	-14.00	-17.21
145-B-11	37 56.35	-76 27.25	110.22	979987.420	-.97	-4.73
145-B-12	37 56.70	-76 26.77	115.14	979986.571	-1.86	-5.79
145-B-13	37 58.00	-76 27.35	22.06	979996.002	-3.08	-3.84
145-B-14	37 59.10	-76 27.67	5.91	979998.594	-3.61	-3.82
145-B-15	37 57.33	-76 27.77	40.75	979993.845	-2.51	-3.90
145-B-16SE1	37 56.23	-76 24.40	58.00	979983.249	-9.88	-11.86
145-B-17SE2	37 58.63	-76 28.95	20.00	979999.594	-.61	-1.29
145-B-18	37 59.77	-76 27.82	5.19	979998.754	-4.49	-4.67
145-C-1 BASE	37 46.17	-76 27.87	88.52	979969.580	-6.03	-9.04
145-C-2	37 46.08	-76 26.80	81.53	979969.371	-6.76	-9.54
145-C-3	37 45.83	-76 25.52	92.03	979966.049	-8.73	-11.87
145-C-4	37 46.52	-76 24.63	97.37	979966.824	-8.45	-11.77
145-C-5	37 46.75	-76 23.23	91.31	979964.739	-11.45	-14.56
145-C-6	37 48.45	-76 22.78	89.38	979965.533	-13.31	-16.36
145-C-7	37 48.90	-76 22.75	104.55	979964.769	-13.30	-16.87
145-C-8	37 49.82	-76 22.60	79.26	979966.826	-14.96	-17.66
145-C-9SE1	37 49.38	-76 25.17	103.00	979971.813	-7.10	-10.62
145-C-10SE2	37 47.77	-76 26.13	79.00	979973.701	-5.12	-7.82
145-C-11	37 46.17	-76 28.80	17.54	979974.077	-8.20	-8.80
145-C-12	37 46.85	-76 28.40	90.83	979971.075	-5.30	-8.40
145-C-13	37 47.47	-76 28.53	104.20	979972.013	-4.00	-7.56
145-C-14	37 48.55	-76 28.23	108.15	979974.232	-2.99	-6.68
145-C-15	37 49.25	-76 27.82	107.51	979976.387	-1.91	-5.58
145-C-16	37 50.25	-76 28.60	130.70	979977.635	.06	-4.40
145-C-17	37 51.35	-76 28.37	113.17	979981.271	.45	-3.41
145-C-18	37 51.97	-76 28.73	105.15	979982.106	-.37	-3.96
145-C-19	37 51.80	-76 29.70	112.04	979980.890	-.70	-4.52
145-C-20SE3	37 51.53	-76 26.00	96.00	979977.979	-4.73	-8.00
145-C-21SE4	37 51.32	-76 23.72	83.00	979971.737	-11.88	-14.71
145-D-1	37 52.18	-76 18.93	109.00	979956.812	-25.62	-29.34
145-D-2	37 51.85	-76 17.13	15.25	979958.924	-31.84	-32.36
145-D-3	37 51.15	-76 16.62	14.19	979956.891	-32.95	-33.44
145-D-4	37 50.27	-76 15.78	13.61	979955.076	-33.54	-34.00
145-D-5	37 49.52	-76 16.10	13.97	979954.541	-32.95	-33.42
145-D-6	37 48.87	-76 16.77	12.00	979955.254	-31.47	-31.88
145-D-7	37 51.98	-76 15.88	13.55	979957.415	-33.70	-34.16
145-D-8	37 52.28	-76 21.15	85.21	979964.922	-19.89	-22.80
145-D-9	37 48.98	-76 22.30	93.86	979964.092	-15.10	-18.30
145-D-10SE1	37 48.55	-76 19.80	12.00	979962.459	-23.80	-24.21
145-D-11	37 47.25	-76 22.40	81.50	979963.433	-14.40	-17.18
145-D-12	37 46.40	-76 22.10	90.90	979960.711	-15.00	-18.10
145-D-13	37 46.05	-76 21.88	87.34	979959.916	-15.62	-18.60
145-D-14SE2	37 46.05	-76 19.80	11.00	979959.793	-22.93	-23.30
145-D-15	37 45.23	-76 21.82	96.39	979958.511	-14.99	-18.28
146-A-1SE1	37 53.00	-76 36.42	112.00	979979.025	-4.31	-8.13
146-A-2BR1	37 53.92	-76 33.95	77.00	979987.459	-.51	-3.13
146-A-3BR2	37 55.48	-76 35.58	43.00	979992.086	-1.36	-2.83
146-A-4	37 56.92	-76 36.28	145.34	979988.966	3.06	-1.90
146-A-5	37 56.65	-76 37.05	152.81	979987.597	2.78	-2.44
146-A-6SE2	37 54.07	-76 31.13	116.00	979988.024	3.51	-.45

Station Number	Latitude	Longitude	Elevation	Observed Gravity	Free Air Gravity	Bouguer Gravity
146-A-7	37 55.03	-76 32.93	147.96	979988.123	5.20	.16
146-A-8SE3	37 58.20	-76 37.15	136.00	979993.502	4.84	.20
146-A-9	37 59.60	-76 35.37	100.44	979999.319	5.27	1.85
146-A-10	37 58.15	-76 33.62	109.43	979999.806	8.72	4.99
146-A-11	37 58.12	-76 32.50	18.51	980005.572	5.98	5.35
146-A-12SE4	37 59.90	-76 31.03	17.00	980003.331	1.00	.42
146-A-13	37 58.62	-76 31.47	33.07	980003.255	4.31	3.18
146-A-14	37 58.02	-76 31.40	89.90	979998.766	6.04	2.97
146-A-15	37 56.90	-76 35.17	119.07	979992.546	4.19	.13
146-A-16	37 56.75	-76 30.48	20.70	980000.399	3.01	2.30
146-A-17	37 59.20	-76 31.50	19.42	980004.818	3.73	3.07
146-B-1	37 57.03	-76 44.97	132.90	979992.674	5.43	.89
146-B-2	37 56.03	-76 44.47	126.58	979989.601	3.21	-1.10
146-B-3	37 55.42	-76 43.27	9.07	979994.881	-1.66	-1.97
146-B-4	37 53.78	-76 41.73	126.95	979979.253	-3.82	-8.15
146-B-5	37 53.10	-76 42.52	108.19	979980.353	-3.49	-7.18
146-B-6	37 54.43	-76 39.68	122.44	979981.887	-2.56	-6.73
146-B-7	37 53.45	-76 40.27	125.47	979978.888	-3.84	-8.12
146-B-8	37 53.15	-76 37.53	115.89	979978.548	-4.64	-8.60
146-B-9SE1	37 56.93	-76 41.98	119.00	979991.019	2.61	-1.45
146-B-10	37 58.92	-76 44.12	139.47	979995.827	6.45	1.69
146-B-11	37 59.83	-76 43.75	147.49	979997.021	7.06	2.03
146-B-12	37 59.68	-76 42.68	131.10	979996.747	5.46	.99
146-B-13	37 59.58	-76 41.57	129.08	979996.364	5.04	.63
146-B-14SE2	37 58.95	-76 38.60	125.00	979996.481	5.69	1.43
146-B-15SE3	37 57.00	-76 39.78	119.00	979992.494	3.98	-.07
146-B-16	37 56.68	-76 38.18	136.17	979989.730	3.30	-1.35
146-B-17	37 56.18	-76 39.05	100.01	979990.870	1.77	-1.65
146-B-18	37 56.93	-76 44.57	128.50	979992.099	4.58	.20
146-B-19	37 56.98	-76 43.38	9.93	979999.123	.38	.04
146-B-20	37 56.85	-76 42.70	120.64	979990.705	2.57	-1.55
146-B-21	37 57.03	-76 41.62	103.92	979992.348	2.37	-1.17
146-B-22	37 57.05	-76 40.52	112.28	979992.558	3.34	-.49
146-B-23	37 56.98	-76 39.83	118.22	979992.493	3.93	-.10
146-B-24	37 56.97	-76 38.80	127.66	979991.709	4.06	-.29
146-B-25	37 56.93	-76 37.57	157.87	979988.670	3.91	-1.47
146-C-1	37 52.35	-76 42.37	50.23	979983.587	-4.61	-6.33
146-C-2	37 51.48	-76 42.30	9.76	979986.234	-4.51	-4.85
146-C-3	37 51.15	-76 41.18	32.60	979983.657	-4.46	-5.57
146-C-4	37 49.45	-76 42.10	14.16	979984.126	-3.25	-3.73
146-C-5SE1	37 51.00	-76 38.23	108.00	979975.894	-4.91	-8.59
146-C-6SE2	37 49.35	-76 39.20	13.00	979984.671	-2.66	-3.11
146-C-7SE3	37 47.58	-76 44.28	67.00	979978.659	-1.02	-3.31
146-C-8	37 46.07	-76 44.25	111.67	979973.258	-.02	-3.83
146-C-9	37 45.42	-76 43.40	119.91	979971.535	-.02	-4.11
146-C-10SE4	37 46.25	-76 41.67	103.00	979973.874	-.48	-4.00
146-D-1	37 46.12	-76 30.02	92.28	979968.374	-6.80	-9.94
146-D-2	37 45.12	-76 32.55	83.38	979967.580	-6.97	-9.82
146-D-3	37 45.35	-76 33.58	49.60	979970.531	-7.54	-9.23
146-D-4	37 45.25	-76 34.33	15.96	979973.688	-7.40	-7.95
146-D-5	37 46.93	-76 34.02	34.12	979974.800	-7.03	-8.19
146-D-6	37 47.95	-76 34.22	109.90	979971.893	-4.29	-8.04
146-D-7	37 47.58	-76 33.12	116.25	979970.934	-4.12	-8.08
146-D-8SE1	37 47.53	-76 36.47	20.00	979977.937	-6.09	-6.78
146-D-9	37 48.58	-76 34.27	9.68	979979.947	-6.58	-6.91
146-D-10	37 50.93	-76 35.92	104.70	979977.137	-3.88	-7.45
146-D-11SE2	37 49.22	-76 37.12	35.00	979979.099	-5.97	-7.17
146-D-12	37 51.53	-76 34.32	118.41	979977.316	-3.28	-7.32
146-D-13	37 51.77	-76 33.87	128.46	979977.487	-2.51	-6.89
146-D-14	37 51.42	-76 32.12	116.32	979978.458	-2.17	-6.13
146-D-15	37 51.92	-76 30.28	108.79	979981.179	-.88	-4.59
146-D-16SE3	37 50.00	-76 30.50	122.00	979975.721	-2.31	-6.47
146-D-17SE4	37 48.53	-76 30.50	99.00	979973.751	-4.31	-7.68
147-A-1 BASE	37 55.72	-76 51.67	22.25	980014.290	18.55	17.79
147-A-2	37 57.48	-76 45.48	143.28	979993.911	6.98	2.09
147-A-3	37 57.95	-76 48.02	34.07	980010.427	12.55	11.39
147-A-4	37 59.02	-76 48.58	5.07	980019.824	17.66	17.49

Station Number	Latitude	Longitude	Elevation	Observed Gravity	Free Air Gravity	Bouguer Gravity
147-A-5	37 59.82	-76 49.25	60.19	980021.299	23.15	21.10
147-A-6SE1	37 58.67	-76 51.75	14.00	980020.969	20.15	19.68
147-A-7	37 57.43	-76 48.85	11.21	980013.595	14.32	13.93
147-A-8	37 54.57	-76 51.77	30.34	980010.447	17.14	16.11
147-A-9	37 53.78	-76 52.33	36.96	980009.772	18.23	16.97
147-A-10	37 52.73	-76 51.38	34.34	980003.299	13.04	11.87
147-A-11SE2	37 53.23	-76 48.03	14.00	979993.875	.98	.50
147-A-12SE3	37 54.08	-76 45.75	25.00	979990.967	-2.13	-2.99
147-A-13	37 56.40	-76 50.53	15.88	980014.156	16.82	16.28
147-A-14	37 57.03	-76 49.47	7.95	980013.912	14.91	14.64
147-A-15	37 57.57	-76 47.23	120.77	980000.895	11.73	7.61
147-A-16	37 57.65	-76 46.58	133.16	979996.779	8.65	4.11
147-B-1SE1	37 58.70	-76 58.18	145.00	980010.861	22.32	17.37
147-B-2	37 58.27	-76 56.42	142.49	980012.215	24.07	19.21
147-B-3	37 57.53	-76 54.22	32.39	980016.412	18.98	17.87
147-B-4	37 55.10	-76 52.73	33.04	980012.892	19.07	17.94
147-B-5	37 55.73	-76 53.70	103.42	980008.237	20.11	16.58
147-B-6SE2	37 56.83	-76 56.33	151.00	980010.675	25.42	20.27
147-B-7	37 56.18	-76 59.22	166.92	980011.921	29.11	23.42
147-B-8	37 53.93	-76 58.67	153.02	980011.724	30.88	25.66
147-B-9	37 53.83	-76 59.87	151.90	980013.492	32.69	27.51
147-B-10	37 54.93	-76 55.27	138.24	980006.111	22.42	17.71
147-B-11	37 54.27	-76 56.50	140.49	980008.461	25.96	21.17
147-B-12	37 54.02	-76 57.32	154.09	980009.407	28.55	23.29
147-B-13	37 53.63	-76 57.85	156.35	980009.749	29.66	24.33
147-B-14	37 52.65	-76 54.02	17.60	980009.790	18.08	17.48
147-B-15	37 57.07	-76 53.30	9.09	980016.616	17.67	17.36
147-B-16	37 57.97	-76 54.95	50.98	980017.473	21.16	19.42
147-B-17	37 58.17	-76 55.85	113.99	980013.878	23.20	19.31
147-B-18	37 58.80	-76 57.15	144.96	980011.767	23.08	18.13
147-C-1SE1	37 52.07	-76 57.10	129.00	980005.808	25.43	21.03
147-C-2SE2	37 51.90	-76 58.68	146.00	980008.017	29.48	24.50
147-C-3	37 50.37	-76 59.00	175.51	980001.211	27.68	21.70
147-C-4	37 51.60	-76 54.85	155.53	979998.092	20.89	15.58
147-C-5	37 49.68	-76 56.77	175.55	979994.028	21.50	15.51
147-C-6	37 47.93	-76 56.55	174.35	979983.227	13.13	7.18
147-C-7	37 46.97	-76 56.60	149.43	979981.455	10.42	5.33
147-C-8BR1	37 48.42	-76 58.50	73.00	980000.999	20.67	18.18
147-C-9	37 45.33	-76 59.43	162.87	979975.365	7.97	2.42
147-C-10	37 46.48	-76 56.07	163.87	979979.965	10.99	5.41
147-C-11SE3	37 45.83	-76 52.72	150.00	979972.281	2.95	-2.16
147-C-12	37 46.78	-76 55.67	177.01	979979.352	11.18	5.14
147-C-13	37 47.20	-76 54.75	160.76	979978.146	7.84	2.36
147-C-14	37 47.87	-76 54.07	143.02	979979.041	6.10	1.22
147-C-15	37 48.05	-76 53.08	152.16	979976.179	3.83	-1.36
147-C-16	37 48.42	-76 52.98	158.67	979977.104	4.83	-.58
147-C-17	37 49.87	-76 53.28	157.60	979986.526	12.04	6.66
147-D-1	37 52.30	-76 50.82	12.86	980000.392	8.75	8.31
147-D-2SE1	37 52.17	-76 48.78	22.00	979992.368	1.78	1.03
147-D-3SE2	37 50.40	-76 50.55	126.00	979982.048	3.81	-.48
147-D-4	37 50.83	-76 48.27	112.16	979982.125	1.96	-1.87
147-D-5	37 49.73	-76 48.12	121.37	979980.092	2.39	-1.75
147-D-6	37 49.05	-76 47.90	133.14	979978.249	2.65	-1.89
147-D-7	37 48.50	-76 47.38	129.82	979977.895	2.79	-1.64
147-D-8	37 48.03	-76 46.50	121.61	979977.917	2.72	-1.43
147-D-9	37 47.32	-76 46.03	118.56	979976.970	2.52	-1.52
147-D-10	37 46.47	-76 45.32	122.77	979974.341	1.53	-2.66
147-D-11	37 47.00	-76 45.20	119.37	979975.329	1.42	-2.65
147-D-12	37 48.80	-76 46.53	130.40	979978.221	2.73	-1.72
147-D-13	37 48.93	-76 48.98	103.87	979979.232	1.05	-2.49
147-D-14	37 48.57	-76 50.32	136.98	979976.653	2.12	-2.55
147-D-15	37 48.15	-76 51.55	135.17	979976.589	2.49	-2.12
147-D-16	37 46.52	-76 47.25	77.62	979978.291	1.16	-1.49
147-D-17	37 45.73	-76 47.92	134.50	979973.153	2.51	-2.08
147-D-18SE3	37 45.63	-76 50.70	122.00	979973.352	1.68	-2.48
165-C-1	38 .42	-76 29.37	12.78	980000.599	-2.88	-3.32
165-C-2	38 .33	-76 28.37	3.93	979999.691	-4.50	-4.64

Station Number	Latitude	Longitude	Elevation	Observed Gravity	Free Air Gravity	Bouguer Gravity
166-B-1SE1	38 9.02	-76 41.38	16.00	980027.982	12.25	11.71
166-B-2SE2	38 9.03	-76 38.08	13.00	980017.379	1.34	.90
166-C-1	38 .03	-76 40.52	124.67	979998.365	5.97	1.71
166-C-2	38 1.15	-76 38.97	131.30	980001.575	8.17	3.69
166-C-3	38 1.58	-76 37.92	119.00	980003.414	8.22	4.16
166-C-4SE1	38 .38	-76 43.73	135.00	979999.323	7.39	2.78
166-C-5	38 2.08	-76 44.92	143.96	980005.793	12.22	7.31
166-C-6SE2	38 2.88	-76 43.25	131.00	980004.514	8.55	4.09
166-C-7SE3	38 2.07	-76 41.77	130.00	980001.509	6.65	2.21
166-C-8SE4	38 2.78	-76 38.87	121.00	980005.086	8.33	4.20
166-C-9	38 3.68	-76 37.82	118.00	980004.344	5.99	1.97
166-C-10	38 4.47	-76 39.60	114.23	980006.200	6.35	2.46
166-C-11	38 4.47	-76 40.68	122.00	980006.212	7.10	2.93
166-C-12	38 5.88	-76 43.85	40.35	980023.951	15.09	13.71
166-C-13SE5	38 4.75	-76 41.75	66.58	980011.621	6.88	4.61
166-C-14	38 5.67	-76 41.70	24.31	980017.600	7.54	6.71
166-C-15	38 6.83	-76 40.73	18.57	980019.105	6.81	6.17
166-C-16SE6	38 7.23	-76 37.60	18.00	980013.417	.48	-.13
166-D-1SE1	38 7.35	-76 37.08	9.00	980013.081	-.87	-1.18
166-D-2SE2	38 4.48	-76 36.37	42.00	980007.228	.56	-.87
166-D-3SE3	38 4.02	-76 32.20	9.00	980006.895	-2.19	-2.50
166-D-4SE4	38 2.92	-76 31.58	8.00	980006.195	-1.38	-1.66
166-D-5SE5	38 2.77	-76 35.25	47.00	980005.281	1.59	-.01
166-D-6	38 1.42	-76 36.75	118.46	980002.146	7.15	3.11
166-D-7	38 .40	-76 35.25	5.37	980006.710	2.56	2.37
166-D-8SE6	38 1.18	-76 32.92	16.00	980004.862	.57	.02
166-D-9	38 .03	-76 30.95	15.61	980003.140	.48	-.05
166-D-10	38 .42	-76 30.68	16.55	980002.328	-.80	-1.36
167-A-1	38 8.08	-76 51.73	158.67	980018.510	17.56	12.15
167-A-2	38 8.63	-76 50.17	161.24	980022.768	21.26	15.76
167-A-3	38 9.28	-76 48.90	162.21	980025.506	23.14	17.61
167-A-4	38 8.60	-76 48.00	153.35	980029.491	27.29	22.06
167-A-5SE1	38 9.02	-76 45.97	42.00	980038.561	25.28	23.85
167-A-6	38 7.65	-76 48.17	150.02	980029.447	28.32	23.20
167-B-1	38 10.92	-76 59.78	69.46	980005.433	-8.04	-10.41
167-B-3	38 9.83	-76 56.48	19.71	980010.777	-5.80	-6.47
167-B-4SE1	38 9.12	-76 58.78	64.00	980005.370	-5.99	-8.17
167-B-5	38 9.23	-76 55.72	152.68	980003.185	-0.00	-5.21
167-B-6	38 8.52	-76 54.10	147.02	980008.541	5.87	0.85
167-B-7	38 8.60	-76 53.58	164.72	980009.193	8.06	2.44
167-B-8	38 8.80	-76 52.65	158.60	980013.100	11.10	5.69
167-B-9	38 8.83	-76 54.82	172.31	980004.338	3.58	-2.30
167-B-10	38 13.15	-76 59.13	23.52	980010.024	-11.03	-11.84
167-B-11	38 14.52	-76 59.45	20.98	980012.250	-11.04	-11.76
167-C-1SE1	38 1.23	-76 55.82	20.00	980019.270	15.28	14.59
167-C-2SE2	38 .97	-76 58.70	92.00	980009.062	12.23	9.09
167-C-3SE3	38 2.83	-76 57.97	27.00	980012.615	6.95	6.03
167-C-4SE4	38 4.57	-76 59.75	43.00	980006.993	.30	-1.17
167-C-5SE5	38 1.43	-76 54.20	10.00	980023.041	17.81	17.47
167-C-6	38 3.68	-76 52.95	153.27	980016.554	21.52	16.29
167-C-7	38 4.53	-76 53.37	153.62	980014.907	18.67	13.43
167-C-8	38 5.15	-76 53.48	142.20	980014.993	16.78	11.93
167-C-9	38 5.98	-76 53.17	171.72	980013.571	16.92	11.06
167-C-10	38 6.52	-76 54.53	167.43	980007.697	9.86	4.15
167-C-11	38 7.03	-76 57.32	27.41	980010.272	-1.49	-2.42
167-C-12	38 6.67	-76 59.73	14.29	980007.905	-4.55	-5.04
167-C-13SE6	38 7.37	-76 58.40	17.00	980009.414	-3.81	-4.39
167-D-1SE1	38 7.15	-76 49.52	163.00	980026.823	27.65	22.09
167-D-2	38 7.22	-76 46.93	143.56	980029.773	28.67	23.77
167-D-3	38 5.62	-76 48.07	148.02	980028.281	29.93	24.88
167-D-4	38 7.17	-76 51.52	160.91	980020.283	20.89	15.40
167-D-5	38 6.42	-76 51.27	161.50	980021.466	23.22	17.71
167-D-6	38 5.90	-76 50.82	61.01	980030.757	23.81	21.73
167-D-7SE2	38 4.70	-76 51.50	146.00	980022.045	24.85	19.87
167-D-8	38 5.70	-76 49.68	145.22	980026.882	28.15	23.20
167-D-9SE3	38 4.50	-76 48.90	168.00	980024.844	30.01	24.28
167-D-10	38 5.15	-76 45.63	137.33	980024.403	25.73	21.35

Station Number	Latitude	Longitude	Elevation	Observed Gravity	Free Air Gravity	Bouguer Gravity
167-D-11	38 3.12	-76 46.07	114.88	980018.717	20.90	16.98
167-D-12	38 1.88	-76 45.65	143.80	980008.138	14.84	9.94
167-D-13	38 1.68	-76 46.83	153.56	980012.597	20.51	15.27
167-D-14	38 1.60	-76 47.18	150.71	980013.906	21.67	16.53
167-D-15	38 2.37	-76 48.60	135.70	980023.619	28.85	24.23
167-D-16	38 2.40	-76 49.57	10.42	980031.691	25.09	24.74
167-D-17	38 2.17	-76 50.30	137.53	980020.836	26.54	21.85
167-D-18	38 2.57	-76 51.72	147.56	980018.619	24.68	19.65
167-D-19	38 3.03	-76 52.43	137.92	980018.665	23.14	18.43
167-D-20	38 1.77	-76 51.75	138.73	980017.762	24.16	19.43
167-D-21SE4	38 .12	-76 51.32	17.00	980024.130	21.48	20.90
167-D-22SE5	38 .27	-76 49.68	48.00	980024.053	24.10	22.47
180-C-1	38 15.25	-76 58.48	21.21	980012.637	-11.71	-12.43
180-C-2	38 16.08	-76 59.22	24.61	980014.082	-11.16	-12.00
180-C-3	38 15.37	-76 57.73	4.09	980013.587	-12.54	-12.68

APPENDIX IV: PRINCIPLE FACTS FOR POINTS IN SHEET 14

Station Number	Latitude	Longitude	Elevation	Observed Gravity	Free Air Gravity	Bouguer Gravity
63-B-1	37 14.45	-75 58.32	34.39	979909.537	-25.11	-26.28
63-B-2	37 13.63	-75 58.25	35.56	979908.955	-24.40	-25.61
63-B-3	37 13.50	-75 58.25	34.97	979908.972	-24.25	-25.44
63-B-4	37 12.18	-75 57.48	33.80	979908.490	-22.93	-24.08
63-B-5	37 11.27	-75 57.47	31.70	979907.926	-22.37	-23.45
63-B-6	37 10.10	-75 59.10	9.26	979906.396	-24.32	-24.63
63-B-7	37 10.40	-75 58.45	30.52	979906.091	-23.06	-24.10
63-B-8	37 8.35	-75 57.72	15.03	979903.442	-24.20	-24.71
63-B-9	37 7.97	-75 57.72	19.86	979902.887	-23.74	-24.42
63-B-10	37 8.13	-75 57.07	8.40	979903.672	-24.28	-24.56
63-B-11	37 7.85	-75 57.67	17.47	979902.674	-24.01	-24.61
63-B-12	37 8.30	-75 58.30	25.81	979902.577	-23.98	-24.86
63-C-1	37 7.35	-75 58.07	6.19	979903.618	-23.41	-23.62
63-C-2	37 6.40	-75 58.18	13.12	979902.814	-22.19	-22.63
63-C-3	37 5.60	-75 58.30	11.15	979901.081	-22.95	-23.33
63-C-4	37 5.85	-75 58.67	11.26	979901.913	-22.47	-22.85
93-A-1	37 27.75	-75 52.02	36.75	979937.122	-16.58	-17.84
93-A-2	37 28.52	-75 51.50	37.77	979937.750	-16.98	-18.26
93-A-3	37 29.72	-75 50.72	34.67	979939.171	-17.58	-18.77
93-A-4	37 29.58	-75 47.00	7.24	979945.073	-14.07	-14.31
93-A-5	37 28.77	-75 47.73	5.98	979942.112	-15.96	-16.17
93-A-6	37 29.00	-75 51.20	36.75	979937.972	-17.55	-18.80
93-B-1	37 22.75	-75 54.93	37.70	979927.584	-18.78	-20.06
93-B-2	37 23.42	-75 54.58	39.42	979929.844	-17.32	-18.67
93-B-3	37 24.20	-75 54.18	40.07	979931.390	-16.85	-18.22
93-B-4	37 24.07	-75 53.53	41.48	979930.916	-17.00	-18.41
93-B-5	37 24.65	-75 53.97	35.72	979932.302	-17.01	-18.22
93-B-6	37 25.40	-75 53.55	36.64	979933.437	-16.87	-18.12
93-B-7	37 26.28	-75 52.98	36.21	979934.806	-16.82	-18.06
93-B-8	37 24.42	-75 54.82	28.03	979932.699	-16.99	-17.95
93-B-9	37 25.20	-75 54.83	29.35	979934.059	-16.64	-17.64
93-B-10	37 25.97	-75 55.20	20.70	979936.199	-16.43	-17.13
93-B-11	37 26.77	-75 55.58	9.98	979938.153	-16.64	-16.98
93-B-12	37 27.00	-75 56.60	14.91	979938.129	-16.54	-17.05
93-B-13	37 27.62	-75 57.02	16.71	979938.983	-16.41	-16.98
93-B-14	37 27.87	-75 53.82	22.07	979937.930	-17.32	-18.08
93-B-15	37 29.55	-75 57.13	16.58	979941.798	-16.42	-16.98
93-B-16	37 28.90	-75 56.73	16.94	979940.920	-16.32	-16.89
93-C-1A BASE	37 21.20	-75 56.80	28.03	979921.160	-23.87	-24.83
93-C-2	37 21.22	-75 56.85	22.05	979921.394	-24.22	-24.97
93-C-3	37 22.13	-75 55.28	40.07	979924.766	-20.48	-21.85
93-C-4	37 20.88	-75 58.15	16.80	979920.018	-25.60	-26.18
93-C-5	37 21.05	-75 59.20	15.62	979920.339	-25.64	-26.17
93-C-6	37 20.30	-75 59.98	11.42	979922.423	-22.86	-23.25
93-C-7	37 20.87	-75 55.90	38.69	979920.837	-22.70	-24.02
93-C-8	37 20.38	-75 56.15	36.11	979919.538	-23.54	-24.78
93-C-9	37 19.58	-75 56.57	36.79	979917.907	-23.95	-25.21
93-C-10	37 18.90	-75 56.92	35.37	979917.157	-23.84	-25.05
93-C-11	37 18.62	-75 57.67	19.51	979916.710	-25.37	-26.04
93-C-12	37 17.32	-75 58.77	15.47	979914.116	-26.46	-26.99
93-C-13	37 17.88	-75 59.58	9.59	979916.220	-25.73	-26.06
93-C-14	37 17.25	-75 57.77	34.58	979913.096	-25.59	-26.77
93-C-15	37 17.62	-75 57.58	36.00	979913.906	-25.18	-26.40
93-C-16	37 17.23	-75 57.00	34.77	979914.341	-24.30	-25.49
93-C-17	37 17.13	-75 56.28	27.35	979915.839	-23.36	-24.29
93-C-18	37 17.20	-75 55.40	5.58	979919.702	-21.64	-21.83
93-C-19	37 18.43	-75 57.17	37.69	979916.073	-24.03	-25.32
93-C-20	37 16.62	-75 57.92	28.65	979912.794	-25.53	-26.51
93-C-21	37 16.00	-75 58.17	29.86	979911.892	-25.43	-26.44

* Denotes elevation in meters

BR Denotes bridge elevation

SE Denotes checked spot elevation

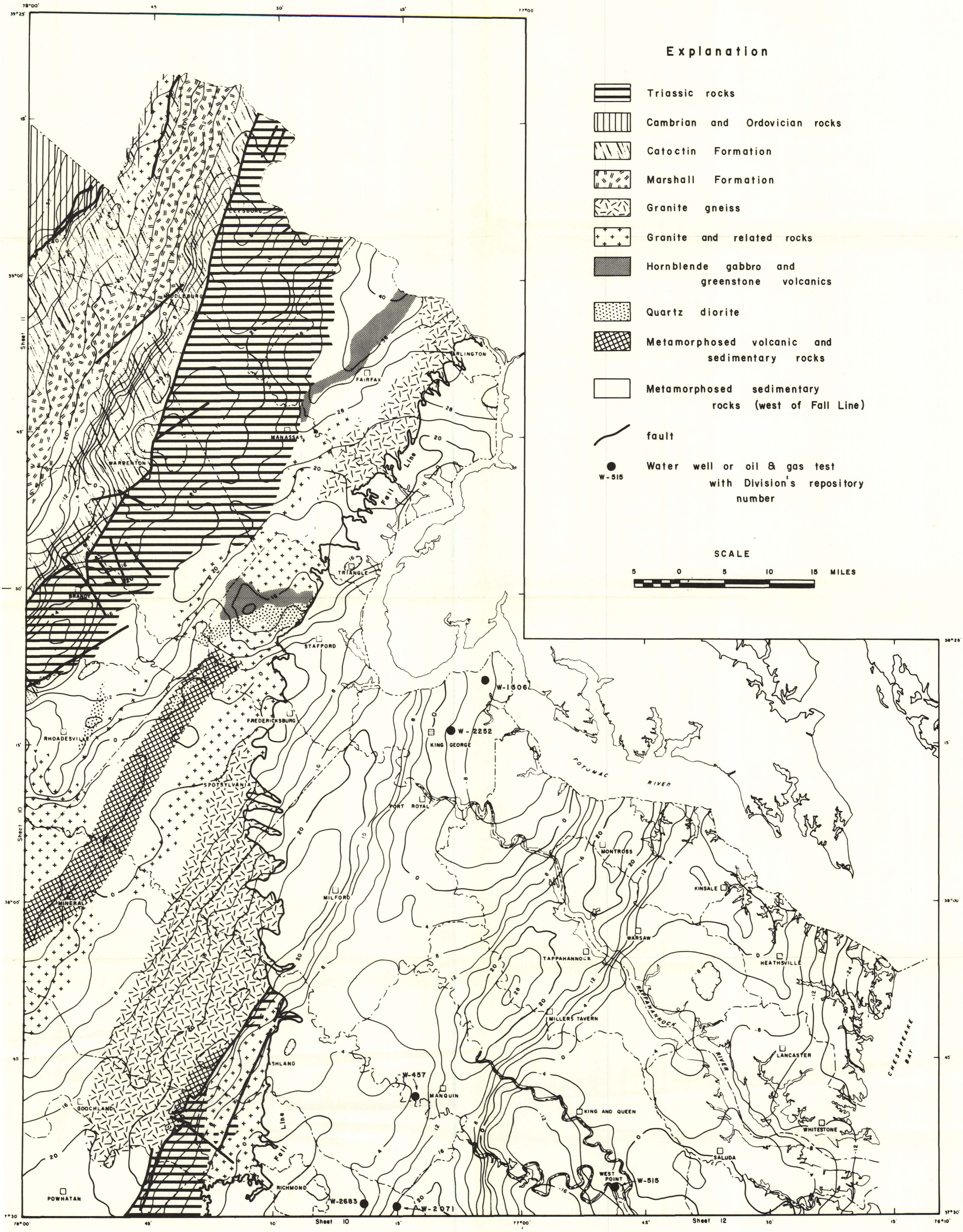
Station Number	Latitude	Longitude	Elevation	Observed Gravity	Free Air Gravity	Bouguer Gravity
93-C-22	37 15.30	-75 58.25	31.07	979910.456	-25.73	-26.79
93-C-23	37 16.20	-75 59.28	16.24	979913.429	-25.46	-26.01
93-C-24	37 16.15	-75 59.83	13.89	979914.090	-24.95	-25.42
94-D-1	37 15.75	-76 0.57	12.36	979915.089	-23.51	-23.93
94-D-2	37 15.75	-76 0.95	11.05	979916.150	-22.58	-22.95
94-D-3	37 15.97	-76 1.23	8.27	979917.276	-22.02	-22.31
94-D-4	37 19.33	-76 0.45	7.66	979919.034	-25.20	-25.46
94-D-5	37 18.80	-76 1.05	6.05	979918.294	-25.32	-25.53
120-A-1	37 44.68	-75 37.10	24.90	979960.852	-18.57	-19.42
120-A-2	37 42.07	-75 37.35	14.49	979957.850	-18.75	-19.24
120-B-1 BASE	37 38.97	-75 44.50	50.77	979958.780	-9.89	-11.62
120-B-2	37 38.62	-75 44.78	45.82	979958.869	-9.76	-11.33
120-B-3	37 38.70	-75 44.17	45.26	979958.699	-10.11	-11.65
120-B-4	37 37.92	-75 43.57	32.78	979958.041	-10.80	-11.92
120-B-5	37 37.95	-75 42.07	11.29	979958.760	-12.15	-12.54
120-B-6	37 38.92	-75 41.75	17.17	979958.946	-12.82	-13.40
120-B-7	37 39.95	-75 40.45	16.37	979958.187	-15.15	-15.71
120-B-8	37 40.53	-75 40.07	23.15	979957.771	-15.78	-16.57
120-B-9	37 41.42	-75 40.03	22.74	979958.450	-16.43	-17.20
120-B-10	37 42.17	-75 40.23	35.93	979958.209	-16.52	-17.74
120-B-11	37 40.15	-75 43.77	46.94	979958.890	-11.87	-13.47
120-B-12	37 40.73	-75 43.38	45.26	979958.947	-12.82	-14.36
120-B-13	37 41.32	-75 43.00	44.59	979959.163	-13.51	-15.03
120-B-14	37 42.38	-75 43.80	31.50	979960.976	-14.48	-15.56
120-B-15	37 42.60	-75 44.40	19.93	979962.491	-14.37	-15.05
120-B-16	37 41.90	-75 42.62	43.75	979959.476	-14.13	-15.62
120-B-17	37 42.58	-75 42.15	43.13	979959.611	-15.04	-16.51
120-B-18	37 42.53	-75 42.77	38.82	979960.213	-14.77	-16.10
120-B-19	37 41.95	-75 44.82	14.29	979962.854	-13.59	-14.08
120-B-20	37 43.00	-75 44.88	7.10	979964.082	-14.57	-14.81
120-B-21	37 43.55	-75 44.33	15.48	979963.312	-15.35	-15.88
120-B-22	37 43.87	-75 43.80	18.74	979963.113	-15.70	-16.34
120-B-23	37 44.23	-75 44.03	15.30	979963.953	-15.72	-16.24
120-B-24	37 44.68	-75 44.80	8.34	979965.430	-15.55	-15.84
120-B-25	37 43.03	-75 40.52	45.36	979958.679	-16.42	-17.97
120-B-26	37 43.15	-75 40.28	44.43	979958.838	-16.52	-18.03
120-B-27	37 43.93	-75 40.52	47.08	979959.845	-16.40	-18.01
120-B-28	37 44.22	-75 41.10	44.10	979960.626	-16.31	-17.82
120-B-29	37 44.48	-75 40.95	42.64	979960.949	-16.51	-17.97
120-B-30	37 43.42	-75 41.62	38.22	979960.370	-15.96	-17.26
120-B-31	37 43.93	-75 38.95	30.30	979960.725	-17.10	-18.13
120-B-32	37 44.68	-75 38.30	34.90	979961.259	-17.22	-18.42
120-B-33	37 42.95	-75 39.17	20.28	979959.806	-17.53	-18.22
120-B-34	37 42.32	-75 37.83	20.16	979958.199	-18.23	-18.92
120-C-1	37 34.15	-75 44.90	7.16	979957.957	-7.82	-8.07
120-C-2	37 33.37	-75 43.92	13.41	979955.221	-8.83	-9.29
120-C-3	37 32.67	-75 44.38	11.81	979955.107	-8.08	-8.48
120-C-4	37 34.02	-75 43.32	12.05	979955.695	-9.43	-9.84
120-C-5	37 34.90	-75 42.58	9.91	979956.427	-10.18	-10.52
120-C-6	37 35.50	-75 42.35	6.84	979957.067	-10.70	-10.94
120-C-7	37 36.35	-75 41.75	7.91	979957.181	-11.72	-11.99
120-C-8	37 36.60	-75 41.98	9.74	979957.470	-11.63	-11.96
120-C-9	37 37.33	-75 42.45	10.11	979958.572	-11.55	-11.90
121-A-1	37 37.92	-75 45.27	41.35	979958.806	-9.23	-10.64
121-A-2	37 38.18	-75 48.17	15.55	979962.464	-8.39	-8.92
121-A-3	37 37.82	-75 48.82	29.85	979961.147	-7.82	-8.84
121-A-4	37 38.30	-75 49.20	12.36	979962.313	-9.01	-9.43
121-A-5	37 38.90	-75 49.77	7.15	979963.630	-9.05	-9.30
121-A-6	37 39.55	-75 50.00	7.00	979964.435	-9.21	-9.45
121-A-7	37 40.02	-75 49.87	4.78	979964.891	-9.64	-9.80
121-A-8	37 39.03	-75 47.65	27.07	979961.629	-9.37	-10.30
121-A-9	37 39.82	-75 46.80	22.63	979962.049	-10.51	-11.28
121-A-10	37 40.32	-75 46.07	29.32	979961.638	-11.02	-12.02
121-A-11	37 41.23	-75 46.97	11.92	979964.660	-10.97	-11.37
121-A-12	37 40.55	-75 48.05	9.45	979964.745	-10.12	-10.44
121-A-13	37 40.75	-75 48.82	4.13	979965.971	-9.68	-9.83
121-A-14	37 41.43	-75 49.18	8.57	979966.259	-9.97	-10.27

Station Number	Latitude	Longitude	Elevation	Observed Gravity	Free Air Gravity	Bouguer Gravity
121-A-15	37 42.12	-75 48.52	9.07	979966.693	-10.49	-10.79
121-A-16	37 42.30	-75 47.68	7.45	979966.442	-11.16	-11.41
121-A-17	37 42.15	-75 46.82	9.73	979965.667	-11.50	-11.83
121-A-18	37 41.92	-75 45.78	14.11	979963.947	-12.47	-12.95
121-A-19	37 42.08	-75 45.03	28.68	979962.254	-13.03	-14.01
121-A-20	37 42.73	-75 45.05	19.09	979963.227	-13.91	-14.56
121-C-1	37 32.10	-75 52.65	25.12	979942.603	-18.51	-19.37
121-C-2	37 31.97	-75 53.70	21.33	979942.324	-18.95	-19.68
121-C-3	37 31.88	-75 54.68	27.86	979942.244	-18.30	-19.25
121-C-4	37 30.90	-75 55.87	24.56	979942.654	-16.77	-17.61
121-C-5	37 30.22	-75 56.53	17.83	979942.443	-16.62	-17.23
121-C-6	37 34.18	-75 53.02	15.35	979948.359	-16.70	-17.22
121-C-7	37 33.90	-75 53.80	11.33	979947.313	-17.71	-18.10
121-C-8	37 33.85	-75 54.38	9.72	979946.841	-18.26	-18.59
121-D-1	37 31.03	-75 49.83	36.80	979943.600	-14.87	-16.12
121-D-2	37 32.07	-75 50.32	28.38	979945.474	-15.28	-16.25
121-D-3	37 32.17	-75 51.70	27.72	979943.631	-17.33	-18.28
121-D-4	37 31.80	-75 49.37	41.01	979946.339	-12.84	-14.24
121-D-5	37 32.33	-75 49.42	36.33	979948.111	-12.29	-13.52
121-D-6	37 33.33	-75 49.55	30.62	979950.937	-11.45	-12.49
121-D-7	37 33.42	-75 50.47	8.90	979950.488	-14.06	-14.37
121-D-8	37 34.17	-75 51.85	24.03	979949.360	-14.85	-15.67
121-D-9	37 32.88	-75 48.58	35.41	979951.722	-9.56	-10.77
121-D-10	37 33.73	-75 48.03	38.81	979954.726	-7.47	-8.79
121-D-11	37 34.42	-75 47.58	37.84	979956.895	-6.39	-7.68
121-D-12	37 35.13	-75 47.12	37.01	979958.429	-5.97	-7.23
121-D-13	37 37.18	-75 47.98	39.62	979960.049	-7.08	-8.44
121-D-14	37 37.47	-75 49.45	19.84	979961.000	-8.41	-9.08
121-D-15	37 36.85	-75 50.15	33.80	979957.802	-9.39	-10.55
121-D-16	37 36.15	-75 51.47	11.73	979954.772	-13.48	-13.88
121-D-17	37 36.88	-75 52.50	5.75	979955.468	-14.42	-14.61
121-D-18	37 35.53	-75 51.43	31.98	979952.179	-13.28	-14.37
121-D-19	37 34.90	-75 51.82	32.56	979950.010	-14.47	-15.58
121-D-20	37 34.65	-75 45.85	25.35	979958.286	-6.51	-7.37
121-D-21	37 35.85	-75 46.70	42.98	979958.590	-6.29	-7.76
121-D-22	37 37.18	-75 45.73	41.88	979958.735	-8.19	-9.61
121-D-23	37 37.22	-75 46.82	42.93	979959.261	-7.61	-9.07
121-D-24	37 31.82	-75 45.05	9.45	979953.729	-8.45	-8.77
121-D-25	37 31.17	-75 45.52	10.95	979951.618	-9.47	-9.85
121-D-26	37 30.35	-75 46.27	8.96	979947.911	-12.18	-12.49
141-A-1	37 56.22	-75 22.30	4.32	979976.275	-21.88	-22.03
141-A-2	37 56.60	-75 21.87	3.68	979976.933	-21.84	-21.97
141-A-3	37 57.27	-75 20.65	3.31	979977.608	-22.17	-22.28
141-A-4	37 55.78	-75 21.53	3.15	979975.860	-21.77	-21.88
141-A-5	37 55.00	-75 21.07	12.01	979973.999	-21.66	-22.07
141-A-6	37 54.60	-75 21.43	11.11	979973.537	-21.62	-22.00
141-A-7	37 53.60	-75 21.43	4.15	979972.519	-21.84	-21.98
141-B-1 BASE	37 56.07	-75 28.43	35.09	979972.450	-22.69	-23.79
141-B-2	37 56.47	-75 28.22	33.87	979973.052	-22.69	-23.84
141-B-3	37 55.45	-75 29.10	40.50	979970.861	-22.77	-24.15
141-B-4	37 55.23	-75 28.47	28.97	979971.273	-23.13	-24.12
141-B-5	37 55.75	-75 27.92	18.32	979972.966	-23.19	-23.82
141-B-6	37 56.45	-75 27.38	21.50	979974.202	-22.68	-23.41
141-B-7	37 56.52	-75 26.82	12.33	979974.833	-23.00	-23.43
141-B-8	37 56.25	-75 25.70	14.50	979974.347	-22.90	-23.39
141-B-9	37 56.22	-75 24.02	7.56	979975.450	-22.40	-22.66
141-B-10	37 56.15	-75 22.85	8.71	979975.618	-22.03	-22.32
141-B-11	37 55.35	-75 23.43	3.63	979974.721	-22.24	-22.36
141-B-12	37 54.67	-75 23.92	3.26	979973.411	-22.58	-22.70
141-B-13	37 54.92	-75 29.62	33.55	979970.490	-23.02	-24.16
141-B-14	37 56.07	-75 29.48	8.91	979973.956	-23.55	-23.85
141-B-15	37 52.90	-75 29.53	7.54	979967.851	-25.17	-25.42
141-B-16	37 52.58	-75 26.65	6.99	979968.019	-24.59	-24.83
141-B-17	37 58.20	-75 27.78	38.43	979976.254	-21.58	-22.89
141-B-18	37 59.80	-75 27.63	36.18	979980.080	-20.30	-21.54
141-C-1	37 50.57	-75 28.70	10.15	979964.667	-24.71	-25.05
141-C-2	37 50.12	-75 29.17	7.65	979964.587	-24.37	-24.63

Station Number	Latitude	Longitude	Elevation	Observed Gravity	Free Air Gravity	Bouguer Gravity
141-C-3	37 51.27	-75 28.07	5.92	979965.657	-25.14	-25.34
141-C-4	37 51.82	-75 27.32	6.08	979966.767	-24.81	-25.02
141-C-5	37 52.43	-75 26.85	5.17	979967.850	-24.71	-24.89
142-A-1	37 53.63	-75 30.63	35.30	979967.585	-23.89	-25.10
142-A-2	37 54.20	-75 30.32	40.78	979968.427	-23.36	-24.75
142-A-3	37 53.08	-75 31.02	39.23	979966.820	-23.48	-24.82
142-A-4	37 52.50	-75 31.97	33.61	979967.387	-22.60	-23.74
142-A-5	37 52.70	-75 32.73	40.25	979967.966	-21.68	-23.06
142-A-6	37 52.52	-75 33.53	43.49	979968.357	-20.73	-22.21
142-A-7	37 56.67	-75 32.20	30.34	979973.568	-22.79	-23.83
142-A-8	37 57.05	-75 32.30	24.31	979974.396	-23.09	-23.92
142-A-9	37 59.00	-75 32.98	16.77	979978.292	-22.75	-23.32
142-A-10	37 59.13	-75 34.30	13.79	979978.927	-22.59	-23.06
142-A-11	37 58.77	-75 34.97	10.61	979978.818	-22.46	-22.82
142-A-12	37 58.68	-75 36.02	7.15	979979.754	-21.73	-21.97
142-A-13	37 58.65	-75 36.88	3.74	979980.856	-20.90	-21.03
142-A-14	37 56.45	-75 37.07	8.33	979978.419	-19.70	-19.98
142-A-15	37 55.70	-75 36.50	5.55	979977.186	-20.10	-20.29
142-A-16	37 55.27	-75 36.78	8.93	979976.793	-19.54	-19.85
142-A-17	37 55.40	-75 37.48	8.98	979977.569	-18.96	-19.26
142-A-18	37 55.08	-75 36.22	8.95	979975.975	-20.09	-20.40
142-A-19	37 54.80	-75 35.20	9.69	979974.583	-21.00	-21.33
142-A-20	37 54.50	-75 34.23	19.35	979972.526	-21.71	-22.37
142-A-21	37 52.65	-75 35.47	17.70	979971.691	-20.01	-20.61
142-A-22	37 55.52	-75 33.55	21.73	979973.022	-22.47	-23.22
142-B-1	37 55.60	-75 38.27	8.55	979978.349	-18.51	-18.80
142-B-2	37 55.62	-75 39.10	3.85	979979.271	-18.05	-18.18
142-B-3	37 55.45	-75 39.97	3.16	979979.350	-17.80	-17.90
142-B-4	37 54.93	-75 40.63	2.61	979978.632	-17.81	-17.90
142-B-5	37 55.58	-75 42.33	3.03	979980.600	-16.75	-16.86
142-B-6	37 55.65	-75 43.37	4.78	979980.608	-16.68	-16.84
142-B-7	37 55.22	-75 43.70	6.01	979979.867	-16.67	-16.88
142-B-8	37 59.57	-75 41.28	3.23	979986.725	-16.42	-16.53
142-B-9	37 59.57	-75 40.18	3.41	979985.711	-17.41	-17.53
142-B-10	37 59.12	-75 38.57	6.83	979983.032	-19.11	-19.35
142-C-1	37 45.07	-75 40.52	42.05	979961.476	-16.89	-18.33
142-C-2	37 45.73	-75 40.08	37.75	979962.601	-17.14	-18.43
142-C-3	37 46.53	-75 39.57	42.36	979962.727	-17.75	-19.19
142-C-4	37 48.45	-75 38.27	31.36	979964.634	-19.66	-20.73
142-C-5	37 48.97	-75 37.92	28.38	979965.582	-19.75	-20.72
142-C-6	37 49.48	-75 37.58	23.39	979966.574	-19.98	-20.78
142-C-7	37 47.77	-75 38.72	34.26	979963.846	-19.18	-20.35
142-D-1	37 52.45	-75 31.30	38.13	979966.329	-23.16	-24.46
142-D-2	37 51.85	-75 30.47	17.45	979966.475	-24.08	-24.68
142-D-3	37 51.95	-75 35.97	18.01	979970.889	-19.76	-20.38
142-D-4	37 51.15	-75 36.47	19.26	979969.592	-19.78	-20.43
142-D-5	37 50.45	-75 36.93	23.12	979968.150	-19.83	-20.62
142-D-6	37 48.78	-75 36.63	45.68	979963.607	-19.83	-21.39
142-D-7	37 48.45	-75 36.48	49.19	979962.936	-19.68	-21.36
142-D-8	37 45.72	-75 36.65	28.66	979961.193	-19.38	-20.36
142-D-9	37 45.03	-75 36.30	21.86	979960.663	-19.56	-20.30
142-D-10	37 46.37	-75 35.98	29.27	979961.318	-20.14	-21.14
142-D-11	37 46.90	-75 35.58	34.10	979961.596	-20.19	-21.35
142-D-12	37 47.38	-75 35.08	30.47	979962.389	-20.44	-21.48
142-D-13	37 46.43	-75 33.75	4.49	979962.021	-21.87	-22.02
142-D-14	37 48.12	-75 34.60	35.59	979962.893	-20.52	-21.74
142-D-15	37 48.67	-75 34.33	40.02	979963.032	-20.77	-22.13
142-D-16	37 49.13	-75 33.75	40.64	979963.596	-20.82	-22.21
142-D-17	37 50.02	-75 33.05	38.08	979964.592	-21.36	-22.65
142-D-18	37 50.73	-75 32.72	35.69	979965.738	-21.48	-22.69
142-D-19	37 51.52	-75 32.48	42.45	979966.175	-21.54	-22.99
143-D-1	37 45.23	-75 45.37	5.92	979966.698	-15.31	-15.51
163-C-1	38 0.65	-75 25.75	25.27	979983.424	-19.22	-20.09
163-C-2	38 0.40	-75 22.97	3.41	979983.746	-20.59	-20.71
163-C-3	38 1.95	-75 24.93	36.53	979985.780	-17.70	-18.95
163-C-4	38 1.07	-75 28.12	33.14	979982.692	-19.82	-20.95
164-D-1	38 0.37	-75 34.18	10.10	979981.444	-22.22	-22.56

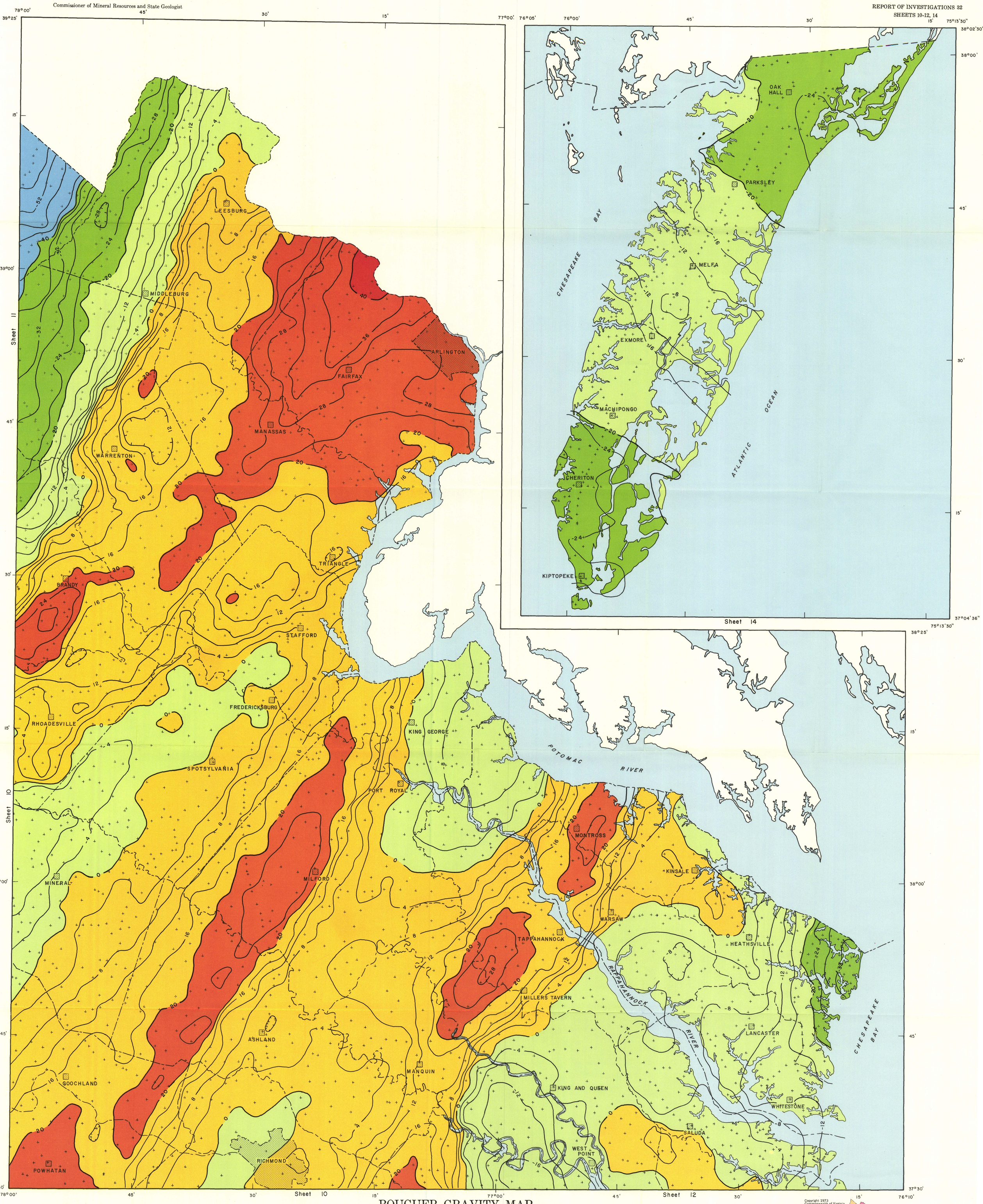
Station Number	Latitude	Longitude	Elevation	Observed Gravity	Free Air Gravity	Bouguer Gravity
164-D-2	38 0.48	-75 35.02	8.75	979981.769	-22.19	-22.49
164-D-3	38 0.55	-75 36.13	10.49	979982.350	-21.54	-21.90

COMMONWEALTH OF VIRGINIA
DEPARTMENT OF CONSERVATION AND ECONOMIC DEVELOPMENT
DIVISION OF MINERAL RESOURCES
James L. Calver
Commissioner of Mineral Resources and State Geologist



GENERALIZED GEOLOGY WEST OF FALL LINE SUPERIMPOSED ON GRAVITY CONTOURS, NORTHEASTERN VIRGINIA

COMMONWEALTH OF VIRGINIA
DEPARTMENT OF CONSERVATION AND ECONOMIC DEVELOPMENT
DIVISION OF MINERAL RESOURCES
James L. Calver
Commissioner of Mineral Resources and State Geologist



EXPLANATION

Machine contoured map; reduction density, 2.67 g/cm³; datum, 980, 118.000 milligals; no terrain correction; gravity station indicated by +.

Milligals
−60 −40 −20 0 20 40 60

BOUGUER GRAVITY MAP

SHEETS 10, 11, 12, and 14, VIRGINIA

By Stanley S. Johnson, Arthur S. Pearson, and Palmer C. Sweet

5 0 5 10 Miles

CONTOUR INTERVAL 4 MILLIGALS

1973

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