

GROUND CONTROL SURVEY REPORT

**GPS SURVEY
FOR LIDAR CONTROL**

LAFAYETTE COUNTY, WI WROC LIDAR SURVEY

LAFAYETTE COUNTY, WISCONSIN

Services provided by:

AYRES

ASSOCIATES

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ABSTRACT

This report documents the GPS ground surveys conducted in support of FEMA accuracy testing of the lidar data collection for Lafayette County, Wisconsin, in 2010. Surveys were conducted at 5 sites utilizing the base stations established in the static network. These surveys established “ground truth” data at each site on different surface types, including bare earth, low grass, brush lands, low trees, forest, high grass, weeds, crops, and urban areas. Statistical comparisons were made between ground truth points collected from the ground survey and the elevation at the associated horizontal coordinates represented on the LiDAR-derived digital terrain model.

SAMPLE POINTS/TEST POINTS

The ground survey test points were distributed and categorized into sites as shown in the Test Survey Locations map on the next page.

DATA ANALYSIS

To qualify as an acceptable accuracy test, the lidar data must be compared with a dataset of higher accuracy – in this instance ground survey. To develop a comparable dataset of points from the lidar dataset, a utility from proprietary software was used.

The ground control survey results were imported into an ESRI Pointz shapefile with each point’s information as attributes. The utility then accessed the lidar and generated a triangulated irregular network (TIN), which is a continuous digital terrain surface, using the bare-earth lidar points and the compiled breaklines. The utility probed the TIN surface to determine its elevations at each of the survey point’s horizontal locations.

The elevation was then appended as a field to the Pointz shapefile; the attributes for each point were exported to a database; and then statistical analysis was performed. The results can be seen on the following pages.

OVERALL ACCURACY

A comparison of ground survey versus lidar model values indicates a vertical root mean square error (RMSE_z) of 0.431 feet. This is within the FEMA specified vertical accuracy tolerance of 0.6. This RMSE_z equates to a tested 0.8467 feet vertical accuracy at 95% confidence level.

Iowa County

Point: 2413
X: 424376.6
Y: 186043.55

Point: 2763
X: 550186.81
Y: 175344.05

Grant County

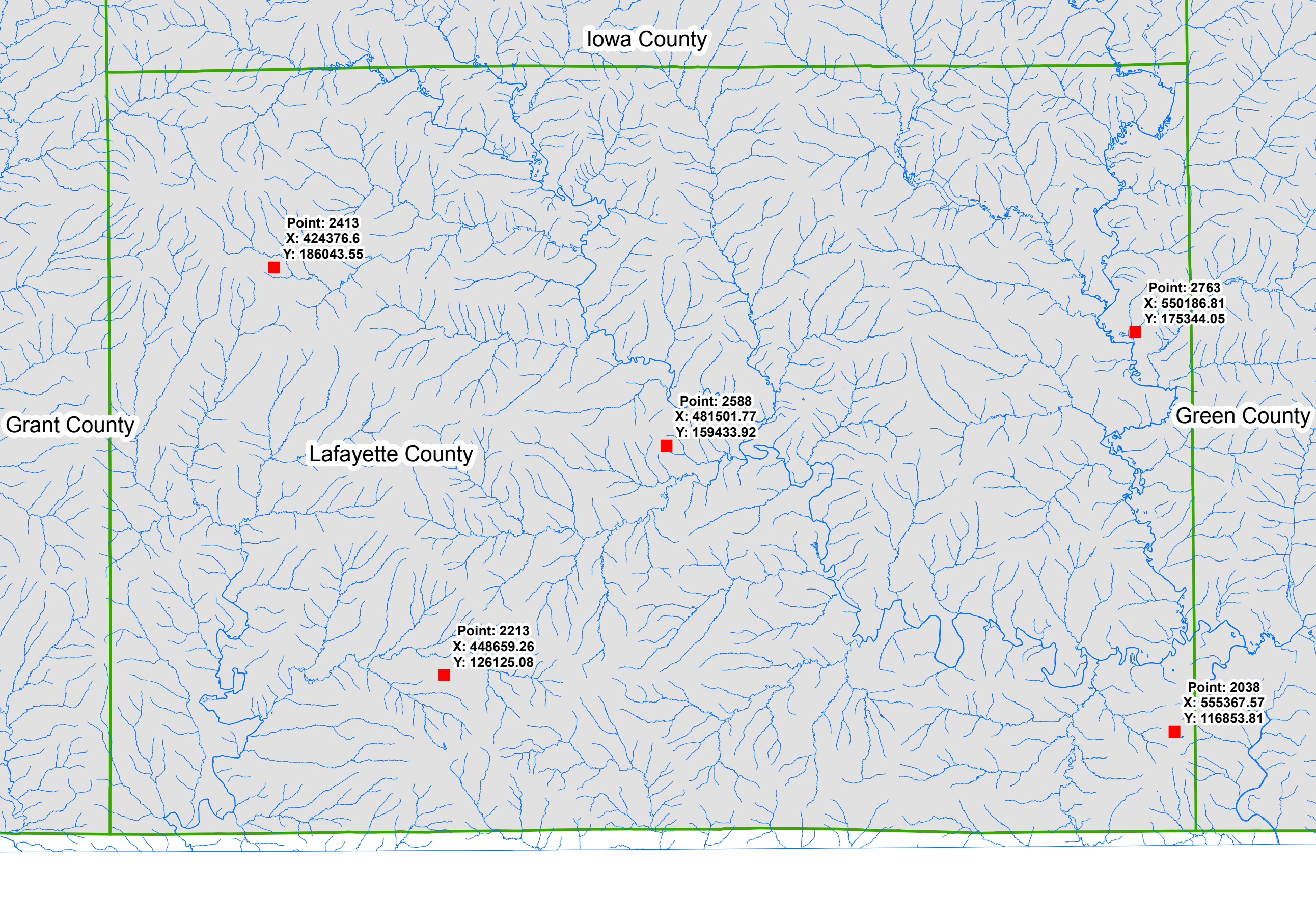
Lafayette County

Point: 2588
X: 481501.77
Y: 159433.92

Green County

Point: 2213
X: 448659.26
Y: 126125.08

Point: 2038
X: 555367.57
Y: 116853.81



GROUND TRUTH ANALYSIS
Comparison of Lidar Points to Ground-Truth Points
Lafayette County Coordinate System WISCRS
NAD 83 HARN / NAVD 88, survey feet

Field definitions

Name – The designation given to the ground survey point to identify it with its coordinates and land cover type

X, Y, and Z – The coordinates that describe the point's horizontal and vertical location within the Lafayette County WISCRS Coordinate System. The X and Y values are shared between the ground control points and lidar comparison points. The Z field shows the elevation of the survey number. The lidar comparison point's elevation is implicit in the analysis' delta Z

Delta Z – The error, the difference between the elevation at a horizontal location as determined by ground survey and as determined by the lidar dataset

Delta Z Squared – The value of squaring Delta Z

Land Cover – The predominant land cover category at the location of the survey point

Statistic definitions

Sum – The sum of the analysis' Delta Z Squared values

Average – The average of the analysis' Delta Z Squared values

RMSE – The root mean squared error, the square root of the average of the squared errors

Accuracyz – The product of multiplying the RMSE with 1.96, a conversion between the RMSE value and a value with a 95% confidence level

Name	X	Y	Z	Delta_Z	Delta_Z_Squared	TYPE
2000	551815.86	113490.50	901.71	0.606000	0.367236	TALL GRASS
2001	551815.43	113487.03	901.81	0.529000	0.279841	TALL GRASS
2002	551815.40	113484.05	901.82	0.555000	0.308025	TALL GRASS
2003	551815.48	113481.63	901.81	0.557000	0.310249	TALL GRASS
2004	551815.58	113478.16	901.82	0.587000	0.344569	TALL GRASS
2005	551819.06	113479.24	901.92	0.582000	0.338724	TALL GRASS
2006	551817.96	113482.25	901.97	0.479000	0.229441	TALL GRASS
2007	551817.77	113485.20	901.89	0.616000	0.379456	TALL GRASS
2008	551817.75	113488.57	901.85	0.522000	0.272484	TALL GRASS
2009	551817.72	113491.26	901.70	0.641000	0.410881	TALL GRASS
2010	551820.89	113490.81	901.78	0.613000	0.375769	TALL GRASS
2011	551820.75	113487.28	901.79	0.667000	0.444889	TALL GRASS
2012	551820.72	113484.01	901.79	0.699000	0.488601	TALL GRASS
2013	551820.98	113481.65	901.88	0.592000	0.350464	TALL GRASS
2014	551821.13	113478.41	901.89	0.693000	0.480249	TALL GRASS
2015	551823.18	113478.77	901.85	0.794000	0.630436	TALL GRASS
2016	551822.74	113483.61	901.80	0.642000	0.412164	TALL GRASS
2017	551822.84	113486.96	901.76	0.693000	0.480249	TALL GRASS
2018	551822.09	113490.01	901.72	0.694000	0.481636	TALL GRASS
2019	551819.12	113494.53	901.81	0.576000	0.331776	TALL GRASS
2020	551811.46	113492.29	901.56	0.592000	0.350464	TALL GRASS
2021	551811.85	113488.31	901.44	0.734000	0.538756	TALL GRASS
2022	551812.04	113484.86	901.67	0.549000	0.301401	TALL GRASS
2023	551811.86	113481.84	901.76	0.473000	0.223729	TALL GRASS
2024	551813.00	113478.41	901.68	0.691000	0.477481	TALL GRASS
2026	555373.66	116862.59	978.28	0.304000	0.092416	MOWED GRASS
2027	555373.78	116859.45	978.23	0.250000	0.062500	MOWED GRASS
2028	555373.98	116856.32	978.13	0.283000	0.080089	MOWED GRASS
2029	555373.99	116853.79	978.09	0.307000	0.094249	MOWED GRASS
2030	555374.15	116851.11	978.00	0.348000	0.121104	MOWED GRASS
2031	555374.40	116848.58	977.98	0.296000	0.087616	MOWED GRASS
2032	555370.77	116850.91	978.12	0.329000	0.108241	MOWED GRASS
2033	555370.68	116854.00	978.10	0.412000	0.169744	MOWED GRASS
2034	555370.78	116856.23	978.19	0.362000	0.131044	MOWED GRASS
2035	555370.97	116858.83	978.25	0.234000	0.054756	MOWED GRASS
2036	555367.62	116859.53	978.26	0.230000	0.052900	MOWED GRASS
2037	555367.52	116856.42	978.17	0.414000	0.171396	MOWED GRASS
2038	555367.57	116853.81	978.18	0.328000	0.107584	MOWED GRASS
2039	555367.32	116851.33	978.08	0.379000	0.143641	MOWED GRASS
2040	555367.06	116848.77	978.06	0.346000	0.119716	MOWED GRASS
2041	555363.83	116849.50	978.09	0.392000	0.153664	MOWED GRASS
2042	555363.92	116852.74	978.14	0.450000	0.202500	MOWED GRASS
2043	555364.19	116855.28	978.19	0.323000	0.104329	MOWED GRASS
2044	555364.03	116857.79	978.25	0.301000	0.090601	MOWED GRASS
2045	555364.21	116860.21	978.32	0.301000	0.090601	MOWED GRASS
2046	555361.28	116860.19	978.27	0.433000	0.187489	MOWED GRASS
2047	555361.36	116857.17	978.22	0.390000	0.152100	MOWED GRASS
2048	555361.32	116854.77	978.18	0.249000	0.062001	MOWED GRASS
2049	555361.20	116852.20	978.12	0.456000	0.207936	MOWED GRASS
2050	555361.15	116849.63	978.09	0.502000	0.252004	MOWED GRASS
2051	550285.50	118393.21	937.76	0.663000	0.439569	BRUSH/LOW
2052	550285.58	118396.38	937.98	0.692000	0.478864	BRUSH/LOW
2053	550285.29	118399.98	938.43	0.230000	0.052900	BRUSH/LOW
2054	550286.79	118403.50	938.53	0.071000	0.005041	BRUSH/LOW
2055	550288.31	118406.84	938.30	0.536000	0.287296	BRUSH/LOW
2056	550287.44	118394.12	937.79	0.717000	0.514089	BRUSH/LOW
2057	550288.53	118397.63	937.89	0.887000	0.786769	BRUSH/LOW
2058	550289.10	118401.34	937.94	0.570000	0.324900	BRUSH/LOW

2059	550289.75	118404.82	938.04	0.566000	0.320356	BRUSH/LOW
2060	550290.73	118408.10	938.09	0.928000	0.861184	BRUSH/LOW
2061	550293.79	118406.84	938.43	0.578000	0.334084	BRUSH/LOW
2062	550293.72	118403.94	938.17	0.700000	0.490000	BRUSH/LOW
2063	550293.55	118399.73	938.09	0.879000	0.772641	BRUSH/LOW
2064	550292.75	118397.75	938.00	0.916000	0.839056	BRUSH/LOW
2065	550293.20	118393.16	937.57	0.960000	0.921600	BRUSH/LOW
2066	550296.12	118393.68	937.69	1.003000	1.006009	BRUSH/LOW
2067	550294.92	118396.27	937.90	0.892000	0.795664	BRUSH/LOW
2068	550294.50	118399.34	938.06	0.926000	0.857476	BRUSH/LOW
2069	550293.90	118402.64	938.23	0.540000	0.291600	BRUSH/LOW
2070	550293.98	118404.83	938.42	0.523000	0.273529	BRUSH/LOW
2071	550296.87	118405.49	938.42	0.926000	0.857476	BRUSH/LOW
2072	550297.78	118402.89	938.13	0.936000	0.876096	BRUSH/LOW
2073	550298.76	118399.43	937.94	0.908000	0.824464	BRUSH/LOW
2074	550300.74	118395.10	937.56	1.018000	1.036324	BRUSH/LOW
2075	550302.19	118393.46	937.29	0.970000	0.940900	BRUSH/LOW
2076	550987.71	118338.90	947.22	0.378000	0.142884	ASPH
2077	550987.92	118341.53	947.25	0.348000	0.121104	ASPH
2078	550987.73	118343.74	947.31	0.280000	0.078400	ASPH
2079	550987.83	118346.89	947.22	0.241000	0.058081	ASPH
2080	550987.98	118349.32	947.16	0.240000	0.057600	ASPH
2081	550984.40	118349.30	947.18	0.201000	0.040401	ASPH
2082	550984.43	118346.24	947.24	0.236000	0.055696	ASPH
2083	550984.22	118343.72	947.30	0.271000	0.073441	ASPH
2084	550984.35	118340.99	947.25	0.282000	0.079524	ASPH
2085	550984.56	118337.80	947.17	0.330000	0.108900	ASPH
2086	550981.68	118338.11	947.20	0.292000	0.085264	ASPH
2087	550981.81	118341.44	947.23	0.332000	0.110224	ASPH
2088	550981.66	118343.70	947.25	0.339000	0.114921	ASPH
2089	550981.82	118347.17	947.16	0.300000	0.090000	ASPH
2090	550981.96	118350.09	947.10	0.239000	0.057121	ASPH
2091	550979.19	118349.98	947.09	0.135000	0.018225	ASPH
2092	550979.22	118346.96	947.15	0.377000	0.142129	ASPH
2093	550979.46	118343.66	947.23	0.375000	0.140625	ASPH
2094	550979.21	118341.07	947.20	0.385000	0.148225	ASPH
2095	550979.53	118338.06	947.14	0.380000	0.144400	ASPH
2096	550976.19	118338.23	947.12	0.449000	0.201601	ASPH
2097	550976.31	118341.01	947.17	0.348000	0.121104	ASPH
2098	550976.11	118343.67	947.20	0.300000	0.090000	ASPH
2099	550976.18	118346.91	947.17	0.236000	0.055696	ASPH
2100	550975.90	118350.54	947.07	0.111000	0.012321	ASPH
2101	551597.58	118849.92	912.14	0.368000	0.135424	GRAV
2102	551594.62	118850.04	912.02	0.608000	0.369664	GRAV
2103	551592.04	118850.05	912.07	0.523000	0.273529	GRAV
2104	551589.61	118850.23	912.09	0.489000	0.239121	GRAV
2105	551587.00	118850.41	912.07	0.536000	0.287296	GRAV
2106	551588.06	118846.72	912.13	0.535000	0.286225	GRAV
2107	551590.81	118847.09	912.06	0.671000	0.450241	GRAV
2108	551593.44	118847.35	912.11	0.679000	0.461041	GRAV
2109	551595.84	118847.45	912.26	0.472000	0.222784	GRAV
2110	551598.51	118847.71	912.19	0.426000	0.181476	GRAV
2111	551598.11	118844.27	912.33	0.342000	0.116964	GRAV
2112	551595.13	118844.34	912.31	0.511000	0.261121	GRAV
2113	551592.47	118844.05	912.27	0.569000	0.323761	GRAV
2114	551589.93	118844.14	912.26	0.539000	0.290521	GRAV
2115	551587.61	118843.57	912.35	0.404000	0.163216	GRAV
2116	551587.71	118840.54	912.47	0.435000	0.189225	GRAV
2117	551590.83	118840.57	912.44	0.464000	0.215296	GRAV

2118	551593.27	118840.65	912.45	0.464000	0.215296	GRAV
2119	551595.62	118840.83	912.44	0.482000	0.232324	GRAV
2120	551598.22	118840.94	912.39	0.456000	0.207936	GRAV
2121	551598.04	118837.48	912.49	0.438000	0.191844	GRAV
2122	551594.90	118837.39	912.49	0.433000	0.187489	GRAV
2123	551591.58	118837.03	912.45	0.589000	0.346921	GRAV
2124	551588.87	118837.15	912.52	0.552000	0.304704	GRAV
2125	551586.52	118837.13	912.56	0.441000	0.194481	GRAV
2151	448701.42	126512.47	1021.19	0.037000	0.001369	CONC
2152	448698.55	126512.37	1021.26	0.034000	0.001156	CONC
2153	448695.86	126512.06	1021.25	0.073000	0.005329	CONC
2154	448693.39	126512.11	1021.29	0.143000	0.020449	CONC
2155	448690.90	126511.78	1021.30	0.250000	0.062500	CONC
2156	448690.96	126514.93	1021.30	0.021000	0.000441	CONC
2157	448694.36	126514.76	1021.23	0.084000	0.007056	CONC
2158	448696.73	126514.87	1021.19	0.108000	0.011664	CONC
2159	448699.05	126514.84	1021.17	0.158000	0.024964	CONC
2160	448701.27	126515.12	1021.13	0.093000	0.008649	CONC
2161	448700.86	126517.89	1021.12	0.097000	0.009409	CONC
2162	448698.31	126517.52	1021.15	0.209000	0.043681	CONC
2163	448695.51	126517.07	1021.19	0.130000	0.016900	CONC
2164	448692.96	126516.88	1021.24	0.046000	0.002116	CONC
2165	448690.62	126516.54	1021.34	-0.048000	0.002304	CONC
2166	448690.56	126519.01	1021.27	0.063000	0.003969	CONC
2167	448693.54	126518.94	1021.21	0.115000	0.013225	CONC
2168	448695.87	126519.17	1021.18	0.157000	0.024649	CONC
2169	448698.27	126519.27	1021.15	0.197000	0.038809	CONC
2170	448700.88	126519.71	1021.09	0.065000	0.004225	CONC
2171	448700.22	126522.51	1021.07	0.216000	0.046656	CONC
2172	448697.35	126522.23	1021.14	0.079000	0.006241	CONC
2173	448694.89	126521.89	1021.19	0.014000	0.000196	CONC
2174	448692.26	126521.79	1021.22	-0.008000	0.000064	CONC
2175	448689.97	126521.47	1021.24	0.026000	0.000676	CONC
2176	448723.17	126232.20	1021.78	0.252000	0.063504	ASPH
2177	448722.37	126234.78	1021.82	0.354000	0.125316	ASPH
2178	448721.45	126237.36	1021.85	0.103000	0.010609	ASPH
2179	448720.59	126239.72	1021.81	-0.010000	0.000100	ASPH
2180	448719.50	126242.28	1021.80	0.054000	0.002916	ASPH
2181	448716.58	126241.02	1021.77	0.196000	0.038416	ASPH
2182	448718.23	126238.24	1021.77	0.263000	0.069169	ASPH
2183	448719.41	126235.93	1021.78	0.403000	0.162409	ASPH
2184	448720.25	126233.46	1021.80	0.242000	0.058564	ASPH
2185	448721.31	126231.35	1021.79	0.164000	0.026896	ASPH
2186	448717.93	126230.76	1021.76	0.169000	0.028561	ASPH
2187	448717.10	126233.54	1021.76	0.191000	0.036481	ASPH
2188	448716.04	126236.15	1021.76	0.331000	0.109561	ASPH
2189	448714.68	126238.27	1021.71	0.381000	0.145161	ASPH
2190	448713.70	126240.56	1021.73	0.278000	0.077284	ASPH
2191	448711.39	126239.73	1021.73	0.184000	0.033856	ASPH
2192	448712.59	126237.11	1021.73	0.354000	0.125316	ASPH
2193	448713.62	126234.57	1021.70	0.195000	0.038025	ASPH
2194	448714.33	126232.15	1021.71	0.144000	0.020736	ASPH
2195	448714.97	126229.88	1021.72	0.156000	0.024336	ASPH
2196	448712.44	126229.02	1021.68	0.190000	0.036100	ASPH
2197	448711.75	126231.67	1021.68	0.214000	0.045796	ASPH
2198	448710.98	126233.89	1021.65	0.285000	0.081225	ASPH
2199	448710.10	126236.80	1021.65	0.277000	0.076729	ASPH
2200	448709.19	126239.14	1021.68	0.133000	0.017689	ASPH
2201	448652.84	126129.45	1019.74	0.178000	0.031684	MOWED GRASS

2202	448653.10	126126.42	1019.81	0.221000	0.048841	MOWED GRASS
2203	448653.46	126123.96	1019.90	0.246000	0.060516	MOWED GRASS
2204	448653.79	126121.23	1019.96	0.252000	0.063504	MOWED GRASS
2205	448654.12	126118.64	1019.96	0.133000	0.017689	MOWED GRASS
2206	448657.26	126119.33	1019.96	0.407000	0.165649	MOWED GRASS
2207	448656.87	126122.41	1019.94	0.328000	0.107584	MOWED GRASS
2208	448656.44	126125.00	1019.86	0.258000	0.066564	MOWED GRASS
2209	448656.30	126127.63	1019.79	0.130000	0.016900	MOWED GRASS
2210	448655.97	126130.53	1019.74	0.203000	0.041209	MOWED GRASS
2211	448658.82	126130.86	1019.81	0.171000	0.029241	MOWED GRASS
2212	448658.93	126127.88	1019.87	0.084000	0.007056	MOWED GRASS
2213	448659.26	126125.08	1019.93	0.105000	0.011025	MOWED GRASS
2214	448659.71	126122.34	1019.99	0.174000	0.030276	MOWED GRASS
2215	448659.84	126119.62	1020.05	0.233000	0.054289	MOWED GRASS
2216	448662.73	126120.10	1020.10	0.142000	0.020164	MOWED GRASS
2217	448662.42	126122.68	1020.04	0.118000	0.013924	MOWED GRASS
2218	448662.03	126125.22	1020.00	0.114000	0.012996	MOWED GRASS
2219	448661.92	126127.77	1019.93	0.149000	0.022201	MOWED GRASS
2220	448661.62	126130.38	1019.90	0.213000	0.045369	MOWED GRASS
2221	448664.42	126130.98	1019.91	0.253000	0.064009	MOWED GRASS
2222	448664.71	126128.35	1020.01	0.238000	0.056644	MOWED GRASS
2223	448664.91	126125.76	1020.03	0.171000	0.029241	MOWED GRASS
2224	448665.31	126123.49	1020.11	0.113000	0.012769	MOWED GRASS
2225	448665.66	126120.93	1020.16	0.106000	0.011236	MOWED GRASS
2226	448641.21	125912.90	1023.86	0.110000	0.012100	TALL GRASS
2227	448638.61	125912.40	1023.91	0.087000	0.007569	TALL GRASS
2228	448635.52	125912.49	1023.82	0.225000	0.050625	TALL GRASS
2229	448632.76	125912.85	1023.90	0.130000	0.016900	TALL GRASS
2230	448630.20	125912.53	1023.89	0.098000	0.009604	TALL GRASS
2231	448630.07	125915.98	1023.79	0.228000	0.051984	TALL GRASS
2232	448634.14	125915.81	1023.79	0.268000	0.071824	TALL GRASS
2233	448636.77	125915.71	1023.83	0.246000	0.060516	TALL GRASS
2234	448639.96	125915.42	1023.88	0.213000	0.045369	TALL GRASS
2235	448642.83	125915.46	1023.93	0.117000	0.013689	TALL GRASS
2236	448642.45	125918.76	1023.81	0.334000	0.111556	TALL GRASS
2237	448638.72	125918.12	1023.84	0.222000	0.049284	TALL GRASS
2238	448635.80	125918.07	1023.81	0.136000	0.018496	TALL GRASS
2239	448632.90	125918.42	1023.76	0.180000	0.032400	TALL GRASS
2240	448629.55	125918.21	1023.76	0.168000	0.028224	TALL GRASS
2241	448629.37	125921.81	1023.73	0.186000	0.034596	TALL GRASS
2242	448633.19	125921.15	1023.69	0.179000	0.032041	TALL GRASS
2243	448636.29	125920.75	1023.73	0.209000	0.043681	TALL GRASS
2244	448639.39	125920.98	1023.79	0.275000	0.075625	TALL GRASS
2245	448642.74	125920.50	1023.82	0.316000	0.099856	TALL GRASS
2246	448861.59	126091.44	1025.57	0.088000	0.007744	GRAV
2247	448861.88	126088.41	1025.60	-0.093000	0.008649	GRAV
2248	448862.44	126085.71	1025.66	-0.074000	0.005476	GRAV
2249	448862.40	126082.99	1025.73	-0.047000	0.002209	GRAV
2250	448862.75	126080.55	1025.81	-0.004000	0.000016	GRAV
2251	448865.90	126080.95	1025.76	0.007000	0.000049	GRAV
2252	448865.18	126083.88	1025.65	0.081000	0.006561	GRAV
2253	448864.95	126086.49	1025.58	0.050000	0.002500	GRAV
2254	448864.25	126088.89	1025.54	0.020000	0.000400	GRAV
2255	448864.02	126091.29	1025.48	0.058000	0.003364	GRAV
2256	448866.62	126091.51	1025.57	-0.026000	0.000676	GRAV
2257	448867.10	126088.59	1025.57	0.005000	0.000025	GRAV
2258	448867.55	126085.98	1025.63	0.021000	0.000441	GRAV
2259	448868.20	126083.46	1025.72	0.061000	0.003721	GRAV
2260	448868.14	126080.11	1025.79	0.032000	0.001024	GRAV

2261	448871.00	126079.99	1025.78	0.031000	0.000961	GRAV
2262	448870.73	126082.74	1025.66	0.092000	0.008464	GRAV
2263	448870.18	126085.43	1025.57	0.148000	0.021904	GRAV
2264	448870.32	126087.76	1025.55	0.101000	0.010201	GRAV
2265	448869.57	126090.10	1025.53	0.055000	0.003025	GRAV
2266	448873.10	126091.10	1025.62	0.103000	0.010609	GRAV
2267	448873.42	126087.96	1025.60	0.144000	0.020736	GRAV
2268	448874.14	126085.17	1025.64	0.077000	0.005929	GRAV
2269	448874.34	126082.89	1025.71	0.002000	0.000004	GRAV
2270	448875.01	126080.04	1025.77	0.016000	0.000256	GRAV
2271	448877.86	126079.58	1025.75	0.179000	0.032041	GRAV
2272	448877.58	126082.57	1025.73	0.142000	0.020164	GRAV
2273	448877.11	126085.25	1025.67	0.106000	0.011236	GRAV
2274	448876.89	126087.82	1025.61	0.165000	0.027225	GRAV
2275	448876.57	126090.49	1025.63	0.186000	0.034596	GRAV
2276	451645.78	126897.27	957.82	0.253000	0.064009	ASPH
2277	451643.40	126898.55	957.86	0.209000	0.043681	ASPH
2278	451641.02	126899.96	957.84	0.250000	0.062500	ASPH
2279	451638.35	126900.90	957.78	0.424000	0.179776	ASPH
2280	451635.38	126902.39	957.74	0.454000	0.206116	ASPH
2281	451633.95	126899.51	957.74	0.387000	0.149769	ASPH
2282	451636.67	126898.07	957.74	0.589000	0.346921	ASPH
2283	451639.96	126896.75	957.79	0.471000	0.221841	ASPH
2284	451642.19	126896.24	957.77	0.425000	0.180625	ASPH
2285	451644.63	126895.00	957.86	0.254000	0.064516	ASPH
2286	451642.96	126892.10	957.75	0.348000	0.121104	ASPH
2287	451640.51	126892.89	957.79	0.379000	0.143641	ASPH
2288	451637.65	126894.27	957.81	0.457000	0.208849	ASPH
2289	451634.88	126895.32	957.78	0.460000	0.211600	ASPH
2290	451632.28	126896.44	957.75	0.459000	0.210681	ASPH
2291	451630.78	126893.90	957.78	0.255000	0.065025	ASPH
2292	451633.07	126892.50	957.79	0.261000	0.068121	ASPH
2293	451635.80	126891.36	957.81	0.376000	0.141376	ASPH
2294	451638.39	126890.48	957.85	0.343000	0.117649	ASPH
2295	451641.02	126889.23	957.77	0.341000	0.116281	ASPH
2296	451639.13	126886.08	957.79	0.300000	0.090000	ASPH
2297	451636.64	126887.37	957.80	0.463000	0.214369	ASPH
2298	451634.00	126888.51	957.82	0.541000	0.292681	ASPH
2299	451631.30	126889.70	957.83	0.395000	0.156025	ASPH
2300	451628.28	126891.36	957.76	0.313000	0.097969	ASPH
2325	451655.58	118678.75	1044.62	0.530000	0.280900	BRUSH/LOW
2326	451652.79	118678.39	1044.25	0.913000	0.833569	BRUSH/LOW
2327	451649.86	118678.37	1044.18	0.438000	0.191844	BRUSH/LOW
2328	451649.44	118682.67	1044.13	0.600000	0.360000	BRUSH/LOW
2329	451652.79	118683.76	1044.32	0.615000	0.378225	BRUSH/LOW
2330	451655.56	118685.08	1044.43	0.392000	0.153664	BRUSH/LOW
2331	451657.84	118685.80	1044.24	0.545000	0.297025	BRUSH/LOW
2332	451659.67	118686.46	1044.40	0.336000	0.112896	BRUSH/LOW
2333	451660.40	118690.61	1044.57	0.269000	0.072361	BRUSH/LOW
2334	451657.60	118689.32	1044.64	0.254000	0.064516	BRUSH/LOW
2335	451654.81	118688.40	1044.48	0.345000	0.119025	BRUSH/LOW
2336	451652.82	118686.45	1044.30	0.399000	0.159201	BRUSH/LOW
2337	451648.55	118685.77	1044.09	0.530000	0.280900	BRUSH/LOW
2338	451646.58	118689.97	1044.10	0.264000	0.069696	BRUSH/LOW
2339	451650.66	118691.09	1044.42	-0.030000	0.000900	BRUSH/LOW
2340	451652.96	118692.43	1044.56	-0.192000	0.036864	BRUSH/LOW
2341	451655.41	118692.75	1044.61	0.058000	0.003364	BRUSH/LOW
2342	451672.80	118651.14	1045.14	1.245000	1.550025	BRUSH/LOW
2343	451671.73	118648.66	1045.02	1.067000	1.138489	BRUSH/LOW

2344	451669.41	118647.34	1045.06	0.686000	0.470596	BRUSH/LOW
2345	451670.14	118643.44	1045.17	0.735000	0.540225	BRUSH/LOW
2346	451673.80	118645.95	1045.08	0.976000	0.952576	BRUSH/LOW
2347	451671.29	118662.48	1044.93	1.086000	1.179396	BRUSH/LOW
2348	451667.31	118661.71	1045.03	0.816000	0.665856	BRUSH/LOW
2349	451662.62	118659.20	1044.74	0.832000	0.692224	BRUSH/LOW
2350	451658.57	118654.47	1044.55	0.753000	0.567009	BRUSH/LOW
2376	424536.09	185865.92	1057.59	0.149000	0.022201	CONC
2377	424539.10	185866.10	1057.59	0.177000	0.031329	CONC
2378	424541.45	185865.88	1057.60	0.010000	0.000100	CONC
2379	424543.88	185866.26	1057.62	0.110000	0.012100	CONC
2380	424545.86	185865.92	1057.58	0.186000	0.034596	CONC
2381	424545.74	185869.60	1057.87	0.011000	0.000121	CONC
2382	424542.61	185869.42	1057.93	-0.024000	0.000576	CONC
2383	424539.68	185869.31	1057.85	0.069000	0.004761	CONC
2384	424537.30	185869.28	1057.80	0.044000	0.001936	CONC
2385	424534.75	185869.29	1057.86	-0.083000	0.006889	CONC
2386	424534.57	185862.83	1057.46	0.132000	0.017424	CONC
2387	424537.76	185863.16	1057.52	0.080000	0.006400	CONC
2388	424540.42	185863.21	1057.48	0.018000	0.000324	CONC
2389	424542.66	185863.09	1057.49	-0.004000	0.000016	CONC
2390	424545.15	185863.35	1057.56	0.077000	0.005929	CONC
2391	424544.92	185860.11	1057.43	0.141000	0.019881	CONC
2392	424542.21	185860.42	1057.43	0.165000	0.027225	CONC
2393	424539.54	185860.41	1057.43	0.127000	0.016129	CONC
2394	424536.93	185860.37	1057.39	0.155000	0.024025	CONC
2395	424534.74	185860.31	1057.38	0.131000	0.017161	CONC
2396	424534.84	185857.17	1057.30	0.115000	0.013225	CONC
2397	424537.67	185857.22	1057.36	0.118000	0.013924	CONC
2398	424540.28	185857.28	1057.38	0.031000	0.000961	CONC
2399	424542.68	185857.41	1057.41	0.060000	0.003600	CONC
2400	424545.08	185857.21	1057.44	0.026000	0.000676	CONC
2401	424382.20	186037.49	1069.82	0.314000	0.098596	ASPH
2402	424379.60	186037.52	1069.79	0.159000	0.025281	ASPH
2403	424376.94	186037.28	1069.83	0.133000	0.017689	ASPH
2404	424374.51	186037.21	1069.88	0.158000	0.024964	ASPH
2405	424372.05	186036.86	1069.85	0.186000	0.034596	ASPH
2406	424372.26	186040.01	1069.91	0.104000	0.010816	ASPH
2407	424375.01	186039.73	1069.94	0.186000	0.034596	ASPH
2408	424377.41	186040.15	1069.93	0.121000	0.014641	ASPH
2409	424379.96	186040.15	1069.91	0.267000	0.071289	ASPH
2410	424382.70	186040.42	1069.92	0.327000	0.106929	ASPH
2411	424382.79	186043.93	1070.03	0.286000	0.081796	ASPH
2412	424379.54	186043.55	1069.94	0.381000	0.145161	ASPH
2413	424376.60	186043.55	1069.92	0.208000	0.043264	ASPH
2414	424374.26	186043.42	1069.94	0.006000	0.000036	ASPH
2415	424371.26	186043.60	1069.92	0.045000	0.002025	ASPH
2416	424371.50	186046.72	1070.03	0.138000	0.019044	ASPH
2417	424374.94	186046.33	1070.04	0.012000	0.000144	ASPH
2418	424377.64	186046.46	1070.03	0.215000	0.046225	ASPH
2419	424380.33	186046.24	1070.04	0.190000	0.036100	ASPH
2420	424383.08	186046.10	1070.06	0.133000	0.017689	ASPH
2421	424382.92	186049.23	1070.10	0.278000	0.077284	ASPH
2422	424380.01	186049.29	1070.05	0.369000	0.136161	ASPH
2423	424377.30	186049.28	1070.08	0.256000	0.065536	ASPH
2424	424374.67	186049.20	1070.06	0.100000	0.010000	ASPH
2425	424372.24	186048.92	1070.08	0.122000	0.014884	ASPH
2426	426506.22	186115.52	1001.34	0.240000	0.057600	TALL GRASS
2427	426506.60	186112.21	1001.33	0.083000	0.006889	TALL GRASS

2428	426506.72	186109.24	1001.32	0.103000	0.010609	TALL GRASS
2429	426506.60	186106.25	1001.23	0.221000	0.048841	TALL GRASS
2430	426506.97	186103.21	1001.19	0.152000	0.023104	TALL GRASS
2431	426503.82	186102.83	1001.12	0.174000	0.030276	TALL GRASS
2432	426503.62	186106.29	1001.16	0.142000	0.020164	TALL GRASS
2433	426503.25	186109.03	1001.22	0.275000	0.075625	TALL GRASS
2434	426502.96	186111.80	1001.26	0.272000	0.073984	TALL GRASS
2435	426502.62	186114.42	1001.30	0.303000	0.091809	TALL GRASS
2436	426499.78	186114.08	1001.41	0.326000	0.106276	TALL GRASS
2437	426500.16	186111.20	1001.29	0.386000	0.148996	TALL GRASS
2438	426500.58	186108.47	1001.30	0.326000	0.106276	TALL GRASS
2439	426500.38	186105.62	1001.35	0.274000	0.075076	TALL GRASS
2440	426500.41	186102.49	1001.21	0.267000	0.071289	TALL GRASS
2441	426497.43	186102.32	1001.38	0.329000	0.108241	TALL GRASS
2442	426497.14	186105.49	1001.49	0.292000	0.085264	TALL GRASS
2443	426496.89	186108.28	1001.62	0.230000	0.052900	TALL GRASS
2444	426496.46	186111.08	1001.69	0.178000	0.031684	TALL GRASS
2445	426496.93	186113.90	1001.60	0.234000	0.054756	TALL GRASS
2446	426493.56	186113.70	1001.57	0.260000	0.067600	TALL GRASS
2447	426493.67	186110.44	1001.63	0.204000	0.041616	TALL GRASS
2448	426494.05	186107.41	1001.61	0.241000	0.058081	TALL GRASS
2449	426493.94	186104.78	1001.48	0.212000	0.044944	TALL GRASS
2450	426494.14	186101.98	1001.50	0.282000	0.079524	TALL GRASS
2451	426446.86	186219.21	1002.60	0.152000	0.023104	BRUSH/LOW
2452	426446.50	186222.42	1002.67	0.303000	0.091809	BRUSH/LOW
2453	426446.02	186224.89	1003.01	0.001000	0.000001	BRUSH/LOW
2454	426445.35	186227.68	1002.91	0.150000	0.022500	BRUSH/LOW
2455	426444.92	186229.90	1002.86	0.177000	0.031329	BRUSH/LOW
2456	426441.70	186228.95	1002.99	0.014000	0.000196	BRUSH/LOW
2457	426442.41	186225.21	1002.98	0.060000	0.003600	BRUSH/LOW
2458	426443.20	186222.66	1002.90	0.077000	0.005929	BRUSH/LOW
2459	426443.66	186219.81	1002.71	0.108000	0.011664	BRUSH/LOW
2460	426444.46	186217.42	1002.62	0.177000	0.031329	BRUSH/LOW
2461	426440.99	186216.20	1002.52	0.123000	0.015129	BRUSH/LOW
2462	426440.41	186219.85	1002.74	0.007000	0.000049	BRUSH/LOW
2463	426440.33	186223.20	1002.89	0.093000	0.008649	BRUSH/LOW
2464	426439.64	186225.73	1002.72	0.265000	0.070225	BRUSH/LOW
2465	426438.26	186228.79	1002.77	0.175000	0.030625	BRUSH/LOW
2466	426435.51	186226.71	1002.65	0.180000	0.032400	BRUSH/LOW
2467	426435.32	186224.84	1002.61	0.068000	0.004624	BRUSH/LOW
2468	426437.22	186221.38	1002.69	0.057000	0.003249	BRUSH/LOW
2469	426437.87	186218.21	1002.56	0.021000	0.000441	BRUSH/LOW
2470	426438.91	186214.82	1002.52	0.036000	0.001296	BRUSH/LOW
2471	426434.79	186214.42	1002.57	0.217000	0.047089	BRUSH/LOW
2472	426433.56	186217.96	1002.48	0.059000	0.003481	BRUSH/LOW
2473	426432.60	186220.94	1002.51	-0.099000	0.009801	BRUSH/LOW
2474	426431.39	186223.57	1002.47	-0.020000	0.000400	BRUSH/LOW
2475	426430.82	186227.29	1002.55	-0.015000	0.000225	BRUSH/LOW
2476	426343.05	186723.93	1004.97	-0.018000	0.000324	MOWED GRASS
2477	426339.63	186723.92	1004.94	-0.002000	0.000004	MOWED GRASS
2478	426337.11	186723.90	1004.90	0.059000	0.003481	MOWED GRASS
2479	426334.37	186724.02	1004.90	0.097000	0.009409	MOWED GRASS
2480	426331.65	186724.18	1004.92	0.069000	0.004761	MOWED GRASS
2481	426331.95	186727.50	1005.05	-0.047000	0.002209	MOWED GRASS
2482	426335.34	186727.20	1004.96	0.063000	0.003969	MOWED GRASS
2483	426337.75	186727.06	1004.92	0.112000	0.012544	MOWED GRASS
2484	426340.52	186727.14	1005.03	-0.005000	0.000025	MOWED GRASS
2485	426343.25	186727.08	1005.10	-0.049000	0.002401	MOWED GRASS
2486	426343.07	186730.42	1005.23	-0.137000	0.018769	MOWED GRASS

2487	426339.65	186730.44	1005.07	-0.096000	0.009216	MOWED GRASS
2488	426337.18	186730.44	1005.00	-0.003000	0.000009	MOWED GRASS
2489	426334.55	186730.82	1004.97	0.027000	0.000729	MOWED GRASS
2490	426331.77	186731.12	1005.00	0.031000	0.000961	MOWED GRASS
2491	426331.97	186734.46	1005.11	0.033000	0.001089	MOWED GRASS
2492	426335.28	186733.92	1005.09	-0.106000	0.011236	MOWED GRASS
2493	426337.88	186733.60	1005.12	-0.175000	0.030625	MOWED GRASS
2494	426340.48	186733.62	1005.10	-0.032000	0.001024	MOWED GRASS
2495	426343.07	186733.32	1005.08	0.088000	0.007744	MOWED GRASS
2496	426343.03	186736.92	1005.16	-0.111000	0.012321	MOWED GRASS
2497	426339.38	186737.07	1005.01	0.042000	0.001764	MOWED GRASS
2498	426336.86	186737.35	1005.04	0.005000	0.000025	MOWED GRASS
2499	426334.32	186737.61	1005.02	0.053000	0.002809	MOWED GRASS
2500	426331.76	186737.77	1004.98	0.092000	0.008464	MOWED GRASS
2526	480274.86	154227.89	846.16	0.826000	0.682276	TALL GRASS
2527	480274.39	154224.62	846.08	0.831000	0.690561	TALL GRASS
2528	480274.09	154221.51	846.05	0.850000	0.722500	TALL GRASS
2529	480273.27	154218.76	846.18	0.745000	0.555025	TALL GRASS
2530	480270.24	154219.69	846.12	0.831000	0.690561	TALL GRASS
2531	480270.95	154223.13	846.09	0.848000	0.719104	TALL GRASS
2532	480271.24	154226.07	846.16	0.855000	0.731025	TALL GRASS
2533	480271.87	154229.19	846.21	0.834000	0.695556	TALL GRASS
2534	480272.39	154232.35	846.21	0.826000	0.682276	TALL GRASS
2535	480273.33	154235.55	846.22	0.794000	0.630436	TALL GRASS
2536	480269.68	154236.33	846.19	0.888000	0.788544	TALL GRASS
2537	480269.68	154232.60	846.20	0.858000	0.736164	TALL GRASS
2538	480268.74	154229.42	846.15	0.896000	0.802816	TALL GRASS
2539	480268.16	154225.90	846.14	0.889000	0.790321	TALL GRASS
2540	480268.21	154222.56	846.13	0.884000	0.781456	TALL GRASS
2541	480267.85	154219.35	846.19	0.766000	0.586756	TALL GRASS
2542	480264.10	154220.62	846.17	0.701000	0.491401	TALL GRASS
2543	480264.99	154223.93	846.22	0.694000	0.481636	TALL GRASS
2544	480265.21	154226.96	846.33	0.672000	0.451584	TALL GRASS
2545	480265.23	154230.43	846.20	0.917000	0.840889	TALL GRASS
2546	480265.76	154233.61	846.26	0.757000	0.573049	TALL GRASS
2547	480261.65	154232.97	846.29	0.789000	0.622521	TALL GRASS
2548	480262.06	154228.48	846.26	0.876000	0.767376	TALL GRASS
2549	480261.67	154223.76	846.25	0.716000	0.512656	TALL GRASS
2550	480261.72	154219.70	846.23	0.721000	0.519841	TALL GRASS
2551	480468.74	154237.29	846.14	0.769000	0.591361	BRUSH/LOW
2552	480472.36	154237.14	846.12	0.616000	0.379456	BRUSH/LOW
2553	480475.32	154237.65	846.35	0.533000	0.284089	BRUSH/LOW
2554	480477.78	154237.64	846.31	0.716000	0.512656	BRUSH/LOW
2555	480481.04	154237.31	846.46	0.754000	0.568516	BRUSH/LOW
2556	480481.26	154240.04	846.65	0.573000	0.328329	BRUSH/LOW
2557	480477.96	154240.61	846.40	0.720000	0.518400	BRUSH/LOW
2558	480474.70	154241.71	846.30	0.707000	0.499849	BRUSH/LOW
2559	480471.53	154242.52	846.38	0.590000	0.348100	BRUSH/LOW
2560	480468.25	154243.07	846.24	0.754000	0.568516	BRUSH/LOW
2561	480467.19	154246.30	846.26	0.786000	0.617796	BRUSH/LOW
2562	480469.81	154246.15	846.39	0.584000	0.341056	BRUSH/LOW
2563	480472.87	154246.35	846.36	0.678000	0.459684	BRUSH/LOW
2564	480475.97	154244.79	846.31	0.819000	0.670761	BRUSH/LOW
2565	480478.71	154243.99	846.48	0.691000	0.477481	BRUSH/LOW
2566	480480.18	154247.61	846.42	0.850000	0.722500	BRUSH/LOW
2567	480477.15	154247.43	846.36	0.875000	0.765625	BRUSH/LOW
2568	480473.58	154247.96	846.44	0.674000	0.454276	BRUSH/LOW
2569	480471.06	154248.08	846.40	0.632000	0.399424	BRUSH/LOW
2570	480467.41	154248.91	846.32	1.209000	1.461681	BRUSH/LOW

2571	480467.69	154251.43	846.33	1.027000	1.054729	BRUSH/LOW
2572	480469.86	154252.27	846.57	0.693000	0.480249	BRUSH/LOW
2573	480473.31	154251.77	846.54	0.675000	0.455625	BRUSH/LOW
2574	480476.00	154250.77	846.44	0.869000	0.755161	BRUSH/LOW
2575	480478.90	154250.83	846.71	0.604000	0.364816	BRUSH/LOW
2576	481495.81	159427.71	975.95	0.223000	0.049729	MOWED GRASS
2577	481495.49	159430.69	976.07	0.156000	0.024336	MOWED GRASS
2578	481495.45	159433.45	976.15	0.225000	0.050625	MOWED GRASS
2579	481495.64	159436.39	976.19	0.299000	0.089401	MOWED GRASS
2580	481495.65	159439.12	976.28	0.201000	0.040401	MOWED GRASS
2581	481498.91	159438.28	976.31	0.235000	0.055225	MOWED GRASS
2582	481498.65	159435.46	976.22	0.249000	0.062001	MOWED GRASS
2583	481498.64	159432.91	976.11	0.249000	0.062001	MOWED GRASS
2584	481498.36	159430.39	976.07	0.181000	0.032761	MOWED GRASS
2585	481498.47	159427.50	976.02	0.121000	0.014641	MOWED GRASS
2586	481501.70	159427.81	976.05	0.213000	0.045369	MOWED GRASS
2587	481501.69	159431.42	976.13	0.288000	0.082944	MOWED GRASS
2588	481501.77	159433.92	976.23	0.335000	0.112225	MOWED GRASS
2589	481501.88	159437.06	976.37	0.129000	0.016641	MOWED GRASS
2590	481502.02	159439.77	976.42	0.137000	0.018769	MOWED GRASS
2591	481505.58	159439.66	976.46	0.156000	0.024336	MOWED GRASS
2592	481505.47	159436.68	976.38	0.167000	0.027889	MOWED GRASS
2593	481505.63	159433.82	976.29	0.179000	0.032041	MOWED GRASS
2594	481505.53	159431.29	976.20	0.154000	0.023716	MOWED GRASS
2595	481505.57	159428.28	976.11	0.125000	0.015625	MOWED GRASS
2596	481508.91	159428.53	976.16	0.290000	0.084100	MOWED GRASS
2597	481508.70	159431.86	976.27	0.150000	0.022500	MOWED GRASS
2598	481508.68	159434.51	976.38	0.066000	0.004356	MOWED GRASS
2599	481508.55	159437.20	976.44	0.096000	0.009216	MOWED GRASS
2600	481508.41	159439.96	976.54	0.171000	0.029241	MOWED GRASS
2601	480552.79	159903.76	1005.63	0.305000	0.093025	ASPH
2602	480549.79	159904.11	1005.55	0.307000	0.094249	ASPH
2603	480546.89	159903.72	1005.47	0.330000	0.108900	ASPH
2604	480543.73	159903.73	1005.39	0.276000	0.076176	ASPH
2605	480540.73	159903.60	1005.32	0.194000	0.037636	ASPH
2606	480540.61	159900.03	1005.39	0.162000	0.026244	ASPH
2607	480543.86	159900.26	1005.43	0.224000	0.050176	ASPH
2608	480546.82	159900.54	1005.51	0.239000	0.057121	ASPH
2609	480549.95	159900.80	1005.57	0.339000	0.114921	ASPH
2610	480553.19	159900.85	1005.67	0.229000	0.052441	ASPH
2611	480552.68	159897.45	1005.70	0.123000	0.015129	ASPH
2612	480549.74	159897.54	1005.63	0.263000	0.069169	ASPH
2613	480547.07	159897.26	1005.55	0.223000	0.049729	ASPH
2614	480544.46	159897.23	1005.51	0.208000	0.043264	ASPH
2615	480541.55	159896.76	1005.42	0.264000	0.069696	ASPH
2616	480541.87	159893.63	1005.47	0.227000	0.051529	ASPH
2617	480545.39	159893.51	1005.53	0.341000	0.116281	ASPH
2618	480548.37	159893.63	1005.59	0.314000	0.098596	ASPH
2619	480551.09	159893.74	1005.65	0.158000	0.024964	ASPH
2620	480554.14	159893.57	1005.77	0.109000	0.011881	ASPH
2621	480553.66	159890.41	1005.78	0.190000	0.036100	ASPH
2622	480550.51	159890.39	1005.68	0.090000	0.008100	ASPH
2623	480547.85	159890.23	1005.60	0.193000	0.037249	ASPH
2624	480545.27	159890.11	1005.55	0.196000	0.038416	ASPH
2625	480542.46	159889.83	1005.46	0.195000	0.038025	ASPH
2626	480351.00	161399.49	1001.65	0.246000	0.060516	CONC
2627	480348.93	161401.98	1001.69	0.060000	0.003600	CONC
2628	480346.92	161404.23	1001.75	-0.116000	0.013456	CONC
2629	480345.02	161406.36	1001.79	-0.040000	0.001600	CONC

2630	480342.84	161408.18	1001.78	0.108000	0.011664	CONC
2631	480340.15	161405.22	1001.80	-0.017000	0.000289	CONC
2632	480342.34	161402.65	1001.84	0.199000	0.039601	CONC
2633	480344.22	161400.66	1001.79	0.178000	0.031684	CONC
2634	480346.38	161398.66	1001.77	0.137000	0.018769	CONC
2635	480348.66	161396.68	1001.81	0.071000	0.005041	CONC
2636	480345.76	161394.01	1001.81	0.114000	0.012996	CONC
2637	480343.58	161396.27	1001.80	0.133000	0.017689	CONC
2638	480341.66	161398.26	1001.79	0.189000	0.035721	CONC
2639	480339.30	161400.11	1001.88	0.239000	0.057121	CONC
2640	480337.58	161401.94	1001.93	0.255000	0.065025	CONC
2641	480334.96	161399.31	1001.99	0.167000	0.027889	CONC
2642	480337.47	161397.29	1001.96	0.161000	0.025921	CONC
2643	480339.49	161395.10	1001.93	0.082000	0.006724	CONC
2644	480341.44	161393.18	1001.90	0.080000	0.006400	CONC
2645	480343.65	161391.26	1001.92	-0.012000	0.000144	CONC
2646	480340.84	161388.85	1001.97	0.039000	0.001521	CONC
2647	480338.02	161391.31	1002.03	-0.026000	0.000676	CONC
2648	480335.69	161393.15	1002.02	0.040000	0.001600	CONC
2649	480333.65	161395.22	1002.04	0.128000	0.016384	CONC
2650	480331.78	161397.10	1002.06	-0.012000	0.000144	CONC
2651	480540.67	161267.33	1005.78	0.131000	0.017161	GRAV
2652	480543.55	161267.25	1005.80	0.058000	0.003364	GRAV
2653	480546.53	161267.47	1005.89	0.050000	0.002500	GRAV
2654	480549.60	161267.79	1005.88	0.156000	0.024336	GRAV
2655	480549.76	161264.75	1005.85	0.165000	0.027225	GRAV
2656	480546.53	161264.59	1005.89	0.027000	0.000729	GRAV
2657	480543.64	161264.40	1005.87	-0.030000	0.000900	GRAV
2658	480541.04	161264.44	1005.83	0.028000	0.000784	GRAV
2659	480540.97	161261.07	1005.84	0.011000	0.000121	GRAV
2660	480544.55	161261.35	1005.81	0.056000	0.003136	GRAV
2661	480547.62	161261.84	1005.86	0.127000	0.016129	GRAV
2662	480551.56	161262.31	1005.87	0.073000	0.005329	GRAV
2663	480554.49	161262.83	1005.87	0.018000	0.000324	GRAV
2664	480555.20	161259.33	1005.95	0.133000	0.017689	GRAV
2665	480552.07	161258.87	1005.95	0.145000	0.021025	GRAV
2666	480548.95	161258.56	1005.92	0.166000	0.027556	GRAV
2667	480545.93	161258.36	1005.87	0.086000	0.007396	GRAV
2668	480542.51	161258.48	1005.82	0.067000	0.004489	GRAV
2669	480539.44	161258.32	1005.86	-0.022000	0.000484	GRAV
2670	480539.15	161254.00	1005.88	-0.052000	0.002704	GRAV
2671	480542.60	161254.02	1005.80	0.116000	0.013456	GRAV
2672	480545.91	161254.19	1005.85	0.029000	0.000841	GRAV
2673	480548.84	161254.09	1005.89	0.154000	0.023716	GRAV
2674	480551.81	161254.12	1005.94	0.170000	0.028900	GRAV
2675	480554.87	161254.03	1005.95	0.112000	0.012544	GRAV
2701	552053.92	187132.02	817.05	0.481000	0.231361	TALL GRASS
2702	552053.72	187128.57	816.94	0.635000	0.403225	TALL GRASS
2703	552053.31	187125.60	816.90	0.451000	0.203401	TALL GRASS
2704	552052.58	187122.12	816.70	0.473000	0.223729	TALL GRASS
2705	552052.29	187118.79	816.58	0.626000	0.391876	TALL GRASS
2706	552048.83	187119.17	816.56	0.478000	0.228484	TALL GRASS
2707	552049.69	187122.64	816.70	0.410000	0.168100	TALL GRASS
2708	552050.33	187125.72	816.80	0.501000	0.251001	TALL GRASS
2709	552050.22	187129.11	816.90	0.699000	0.488601	TALL GRASS
2710	552050.66	187132.05	817.00	0.503000	0.253009	TALL GRASS
2711	552056.88	187131.37	817.12	0.474000	0.224676	TALL GRASS
2712	552056.17	187127.92	816.96	0.572000	0.327184	TALL GRASS
2713	552055.92	187124.96	816.96	0.418000	0.174724	TALL GRASS

2714	552055.72	187121.89	816.82	0.398000	0.158404	TALL GRASS
2715	552055.15	187118.84	816.78	0.385000	0.148225	TALL GRASS
2716	552058.81	187118.79	816.74	0.458000	0.209764	TALL GRASS
2717	552058.83	187121.78	816.88	0.387000	0.149769	TALL GRASS
2718	552058.50	187125.05	816.97	0.499000	0.249001	TALL GRASS
2719	552058.86	187128.01	817.02	0.438000	0.191844	TALL GRASS
2720	552059.40	187130.90	817.11	0.411000	0.168921	TALL GRASS
2721	552062.57	187129.46	817.08	0.340000	0.115600	TALL GRASS
2722	552061.35	187126.28	817.04	0.457000	0.208849	TALL GRASS
2723	552060.74	187123.75	816.94	0.507000	0.257049	TALL GRASS
2724	552060.65	187121.02	816.77	0.466000	0.217156	TALL GRASS
2725	552060.15	187117.49	816.62	0.641000	0.410881	TALL GRASS
2726	552340.54	187050.30	817.13	0.562000	0.315844	BRUSH/LOW
2727	552337.70	187052.42	816.98	0.689000	0.474721	BRUSH/LOW
2728	552335.20	187054.18	816.83	0.708000	0.501264	BRUSH/LOW
2729	552333.26	187056.21	816.75	0.641000	0.410881	BRUSH/LOW
2730	552336.61	187057.83	816.81	0.611000	0.373321	BRUSH/LOW
2731	552338.53	187055.50	817.06	0.555000	0.308025	BRUSH/LOW
2732	552341.03	187053.20	816.85	0.886000	0.784996	BRUSH/LOW
2733	552343.15	187051.50	816.86	0.722000	0.521284	BRUSH/LOW
2734	552344.60	187054.24	816.83	0.841000	0.707281	BRUSH/LOW
2735	552342.56	187055.69	816.94	0.769000	0.591361	BRUSH/LOW
2736	552340.93	187057.65	816.91	0.717000	0.514089	BRUSH/LOW
2737	552339.14	187059.21	816.91	0.558000	0.311364	BRUSH/LOW
2738	552340.29	187062.38	816.78	0.976000	0.952576	BRUSH/LOW
2739	552342.43	187061.12	817.18	0.331000	0.109561	BRUSH/LOW
2740	552344.53	187057.78	817.19	0.488000	0.238144	BRUSH/LOW
2741	552346.12	187056.37	817.14	0.615000	0.378225	BRUSH/LOW
2742	552349.57	187059.38	816.97	0.460000	0.211600	BRUSH/LOW
2743	552346.84	187061.03	817.09	0.531000	0.281961	BRUSH/LOW
2744	552344.54	187062.14	816.91	0.600000	0.360000	BRUSH/LOW
2745	552342.17	187063.31	817.07	0.593000	0.351649	BRUSH/LOW
2746	552340.43	187064.12	816.86	1.127000	1.270129	BRUSH/LOW
2747	552342.44	187066.02	816.98	0.939000	0.881721	BRUSH/LOW
2748	552345.65	187064.30	817.13	0.344000	0.118336	BRUSH/LOW
2749	552347.96	187062.16	817.13	0.580000	0.336400	BRUSH/LOW
2750	552350.04	187061.10	817.09	0.461000	0.212521	BRUSH/LOW
2751	550194.13	175339.02	805.03	0.154000	0.023716	MOWED GRASS
2752	550191.52	175337.89	804.92	0.131000	0.017161	MOWED GRASS
2753	550188.98	175336.89	804.85	0.163000	0.026569	MOWED GRASS
2754	550186.48	175335.97	804.93	-0.018000	0.000324	MOWED GRASS
2755	550183.11	175334.72	804.62	0.240000	0.057600	MOWED GRASS
2756	550181.17	175338.34	804.75	0.181000	0.032761	MOWED GRASS
2757	550184.12	175339.57	804.80	0.152000	0.023104	MOWED GRASS
2758	550187.17	175340.53	804.99	0.046000	0.002116	MOWED GRASS
2759	550190.36	175341.91	804.91	0.283000	0.080089	MOWED GRASS
2760	550193.78	175342.89	805.09	0.219000	0.047961	MOWED GRASS
2761	550192.82	175346.15	805.14	0.133000	0.017689	MOWED GRASS
2762	550189.85	175345.17	805.10	0.067000	0.004489	MOWED GRASS
2763	550186.81	175344.05	804.90	0.162000	0.026244	MOWED GRASS
2764	550184.09	175342.43	804.83	0.171000	0.029241	MOWED GRASS
2765	550180.52	175341.55	804.78	0.183000	0.033489	MOWED GRASS
2766	550179.73	175344.92	804.83	0.159000	0.025281	MOWED GRASS
2767	550182.50	175345.97	804.80	0.235000	0.055225	MOWED GRASS
2768	550185.15	175346.71	804.79	0.307000	0.094249	MOWED GRASS
2769	550188.43	175347.36	805.04	0.148000	0.021904	MOWED GRASS
2770	550191.62	175348.25	805.12	0.133000	0.017689	MOWED GRASS
2771	550189.51	175351.65	805.16	0.074000	0.005476	MOWED GRASS
2772	550186.34	175350.32	805.10	0.099000	0.009801	MOWED GRASS

2773	550183.46	175348.95	804.89	0.243000	0.059049	MOWED GRASS
2774	550179.84	175347.74	804.77	0.261000	0.068121	MOWED GRASS
2776	550392.99	173555.18	813.73	0.265000	0.070225	ASPH
2777	550392.93	173559.22	813.74	0.179000	0.032041	ASPH
2778	550392.90	173562.17	813.74	0.349000	0.121801	ASPH
2779	550392.87	173565.58	813.71	0.441000	0.194481	ASPH
2780	550393.29	173568.32	813.63	0.458000	0.209764	ASPH
2781	550385.29	173569.90	813.75	0.316000	0.099856	ASPH
2782	550385.45	173565.83	813.74	0.349000	0.121801	ASPH
2783	550385.46	173562.82	813.79	0.355000	0.126025	ASPH
2784	550385.30	173559.28	813.76	0.325000	0.105625	ASPH
2785	550385.45	173555.10	813.71	0.417000	0.173889	ASPH
2786	550381.40	173555.01	813.71	0.323000	0.104329	ASPH
2787	550381.74	173558.97	813.70	0.416000	0.173056	ASPH
2788	550381.66	173562.61	813.76	0.272000	0.073984	ASPH
2789	550381.64	173565.79	813.71	0.318000	0.101124	ASPH
2790	550381.86	173569.86	813.72	0.399000	0.159201	ASPH
2791	550377.40	173570.20	813.72	0.404000	0.163216	ASPH
2792	550377.67	173565.68	813.74	0.270000	0.072900	ASPH
2793	550377.76	173562.37	813.81	0.231000	0.053361	ASPH
2794	550377.49	173558.39	813.73	0.439000	0.192721	ASPH
2795	550377.51	173554.68	813.74	0.361000	0.130321	ASPH
2796	550373.42	173554.48	813.76	0.336000	0.112896	ASPH
2797	550373.19	173558.53	813.74	0.361000	0.130321	ASPH
2798	550373.18	173562.57	813.78	0.138000	0.019044	ASPH
2799	550373.11	173566.26	813.78	0.286000	0.081796	ASPH
2800	550373.08	173569.58	813.76	0.551000	0.303601	ASPH
2801	549467.90	173649.11	801.15	0.248000	0.061504	CONC
2802	549463.63	173649.02	801.18	0.185000	0.034225	CONC
2803	549460.03	173649.37	801.09	0.306000	0.093636	CONC
2804	549456.80	173649.45	801.06	0.264000	0.069696	CONC
2805	549453.68	173649.36	801.07	0.230000	0.052900	CONC
2806	549453.32	173646.22	801.03	0.280000	0.078400	CONC
2807	549457.06	173646.05	801.06	0.281000	0.078961	CONC
2808	549460.74	173645.99	801.11	0.367000	0.134689	CONC
2809	549464.48	173646.18	801.12	0.329000	0.108241	CONC
2810	549468.79	173645.31	801.13	0.105000	0.011025	CONC
2811	549468.66	173650.98	801.20	0.232000	0.053824	CONC
2812	549465.39	173651.47	801.21	0.240000	0.057600	CONC
2813	549461.35	173651.77	801.17	0.240000	0.057600	CONC
2814	549457.41	173651.86	801.20	0.150000	0.022500	CONC
2815	549453.64	173651.78	801.07	0.149000	0.022201	CONC
2816	549453.21	173656.51	801.08	0.380000	0.144400	CONC
2817	549456.59	173656.46	801.02	0.399000	0.159201	CONC
2818	549460.21	173656.20	801.08	0.455000	0.207025	CONC
2819	549464.12	173656.15	801.18	0.253000	0.064009	CONC
2820	549467.86	173656.28	801.21	0.354000	0.125316	CONC
2821	549467.52	173659.83	801.27	0.266000	0.070756	CONC
2822	549463.59	173659.82	801.17	0.188000	0.035344	CONC
2823	549460.45	173659.58	801.02	0.362000	0.131044	CONC
2824	549457.01	173659.48	801.11	0.297000	0.088209	CONC
2825	549453.86	173659.67	801.09	0.130000	0.016900	CONC
5276	550944.74	118281.13	941.21	0.679000	0.461041	TREE COVE
5277	550942.34	118283.93	941.37	0.675000	0.455625	TREE COVE
5278	550940.13	118286.19	941.61	0.619000	0.383161	TREE COVE
5279	550938.86	118288.14	941.83	0.577000	0.332929	TREE COVE
5280	550936.54	118290.18	941.98	0.743000	0.552049	TREE COVE
5281	550933.96	118288.40	941.98	0.689000	0.474721	TREE COVE
5282	550936.54	118286.41	941.70	0.716000	0.512656	TREE COVE

5283	550938.46	118284.01	941.54	0.692000	0.478864	TREE COVE
5284	550939.80	118282.38	941.41	0.578000	0.334084	TREE COVE
5285	550941.49	118280.23	941.26	0.793000	0.628849	TREE COVE
5286	550939.42	118279.25	941.19	0.835000	0.697225	TREE COVE
5287	550938.05	118281.52	941.28	0.725000	0.525625	TREE COVE
5288	550936.56	118284.09	941.66	0.646000	0.417316	TREE COVE
5289	550934.71	118286.46	941.86	0.561000	0.314721	TREE COVE
5290	550933.13	118288.57	942.02	0.702000	0.492804	TREE COVE
5291	550930.37	118286.42	941.87	0.632000	0.399424	TREE COVE
5292	550932.58	118284.35	941.72	0.578000	0.334084	TREE COVE
5293	550933.76	118282.94	941.54	0.620000	0.384400	TREE COVE
5294	550935.58	118280.24	941.37	0.504000	0.254016	TREE COVE
5295	550936.81	118278.66	941.24	0.645000	0.416025	TREE COVE
5296	550935.30	118277.72	941.23	0.745000	0.555025	TREE COVE
5297	550933.30	118280.34	941.44	0.486000	0.236196	TREE COVE
5298	550931.74	118282.84	941.64	0.491000	0.241081	TREE COVE
5299	550930.06	118285.12	941.88	0.506000	0.256036	TREE COVE
5300	550928.43	118287.45	942.09	0.467000	0.218089	TREE COVE
5326	452985.87	125217.84	1027.93	0.885000	0.783225	TREE COVE
5327	452987.21	125220.63	1027.93	0.799000	0.638401	TREE COVE
5328	452988.62	125223.35	1027.81	0.721000	0.519841	TREE COVE
5329	452990.01	125226.38	1027.73	0.234000	0.054756	TREE COVE
5330	452990.87	125228.81	1027.85	0.318000	0.101124	TREE COVE
5331	452993.53	125227.25	1027.72	0.234000	0.054756	TREE COVE
5332	452992.46	125224.79	1027.67	0.339000	0.114921	TREE COVE
5333	452991.38	125222.15	1027.83	0.663000	0.439569	TREE COVE
5334	452990.80	125219.82	1027.98	0.691000	0.477481	TREE COVE
5335	452990.32	125217.48	1028.05	0.460000	0.211600	TREE COVE
5336	452993.04	125217.11	1028.00	0.259000	0.067081	TREE COVE
5337	452993.53	125219.96	1027.92	0.257000	0.066049	TREE COVE
5338	452994.52	125223.14	1027.85	0.127000	0.016129	TREE COVE
5339	452995.36	125226.21	1027.61	0.224000	0.050176	TREE COVE
5340	452998.15	125225.49	1027.65	0.167000	0.027889	TREE COVE
5341	452996.68	125222.57	1027.80	0.132000	0.017424	TREE COVE
5342	452996.12	125219.31	1027.94	0.189000	0.035721	TREE COVE
5343	452995.63	125216.95	1028.04	0.178000	0.031684	TREE COVE
5344	452999.36	125218.26	1027.96	0.138000	0.019044	TREE COVE
5345	453000.06	125221.21	1027.84	0.087000	0.007569	TREE COVE
5346	453000.21	125223.78	1027.75	0.296000	0.087616	TREE COVE
5347	453000.83	125227.55	1027.65	0.650000	0.422500	TREE COVE
5348	452986.97	125225.70	1027.81	0.498000	0.248004	TREE COVE
5349	452986.32	125222.65	1027.83	0.853000	0.727609	TREE COVE
5350	452984.95	125219.66	1027.87	0.904000	0.817216	TREE COVE
5376	416581.70	185856.66	1067.46	0.536000	0.287296	TREE COVE
5377	416582.42	185853.27	1067.45	0.491000	0.241081	TREE COVE
5378	416582.39	185850.19	1067.42	0.465000	0.216225	TREE COVE
5379	416582.64	185847.04	1067.42	0.387000	0.149769	TREE COVE
5380	416582.71	185844.24	1067.34	0.452000	0.204304	TREE COVE
5381	416584.76	185844.85	1067.36	0.389000	0.151321	TREE COVE
5382	416585.02	185848.05	1067.34	0.419000	0.175561	TREE COVE
5383	416584.37	185851.57	1067.58	0.266000	0.070756	TREE COVE
5384	416584.60	185854.82	1067.44	0.407000	0.165649	TREE COVE
5385	416584.97	185857.51	1067.43	0.547000	0.299209	TREE COVE
5386	416587.85	185857.05	1067.48	0.408000	0.166464	TREE COVE
5387	416587.77	185853.77	1067.35	0.410000	0.168100	TREE COVE
5388	416587.91	185850.52	1067.50	0.207000	0.042849	TREE COVE
5389	416587.53	185846.29	1067.33	0.365000	0.133225	TREE COVE
5390	416589.92	185846.10	1067.31	0.452000	0.204304	TREE COVE
5391	416589.93	185849.25	1067.37	0.316000	0.099856	TREE COVE

5392	416589.70	185852.24	1067.40	0.275000	0.075625	TREE COVE
5393	416590.34	185855.31	1067.50	0.231000	0.053361	TREE COVE
5394	416590.30	185858.29	1067.54	0.370000	0.136900	TREE COVE
5395	416590.92	185860.95	1067.60	0.432000	0.186624	TREE COVE
5396	416594.51	185860.19	1067.75	0.690000	0.476100	TREE COVE
5397	416593.99	185857.01	1067.62	0.410000	0.168100	TREE COVE
5398	416594.01	185854.53	1067.46	0.254000	0.064516	TREE COVE
5399	416593.86	185851.55	1067.48	0.172000	0.029584	TREE COVE
5400	416594.02	185849.96	1067.40	0.284000	0.080656	TREE COVE
5426	482936.40	158162.22	910.65	0.226000	0.051076	TREE COVE
5427	482936.68	158159.06	910.74	0.039000	0.001521	TREE COVE
5428	482937.33	158156.11	910.70	-0.037000	0.001369	TREE COVE
5429	482937.87	158153.17	910.72	0.066000	0.004356	TREE COVE
5430	482938.12	158150.02	910.72	0.121000	0.014641	TREE COVE
5431	482941.19	158150.54	910.77	0.036000	0.001296	TREE COVE
5432	482940.55	158153.34	910.76	0.100000	0.010000	TREE COVE
5433	482940.82	158156.86	910.70	-0.092000	0.008464	TREE COVE
5434	482940.17	158160.00	910.75	-0.152000	0.023104	TREE COVE
5435	482939.30	158162.56	910.57	0.112000	0.012544	TREE COVE
5436	482942.68	158162.59	910.63	-0.044000	0.001936	TREE COVE
5437	482942.96	158159.52	910.69	-0.094000	0.008836	TREE COVE
5438	482941.89	158156.13	910.71	-0.021000	0.000441	TREE COVE
5439	482942.45	158153.32	910.60	0.308000	0.094864	TREE COVE
5440	482941.32	158149.71	910.82	-0.041000	0.001681	TREE COVE
5441	482943.33	158148.83	910.71	0.181000	0.032761	TREE COVE
5442	482943.35	158152.15	910.80	0.263000	0.069169	TREE COVE
5443	482943.70	158155.77	910.80	-0.066000	0.004356	TREE COVE
5444	482944.24	158158.09	910.74	-0.126000	0.015876	TREE COVE
5445	482944.31	158161.83	910.64	-0.065000	0.004225	TREE COVE
5446	482947.94	158162.02	910.43	0.101000	0.010201	TREE COVE
5447	482946.68	158159.08	910.67	-0.030000	0.000900	TREE COVE
5448	482945.65	158155.94	910.66	0.063000	0.003969	TREE COVE
5449	482945.51	158153.13	910.85	0.160000	0.025600	TREE COVE
5450	482944.32	158150.67	910.78	0.448000	0.200704	TREE COVE
5476	557569.83	185106.67	986.00	0.889000	0.790321	TREE COVE
5477	557568.47	185109.23	986.02	0.854000	0.729316	TREE COVE
5478	557566.85	185112.65	986.02	0.825000	0.680625	TREE COVE
5479	557565.60	185115.66	986.28	0.548000	0.300304	TREE COVE
5480	557563.83	185119.20	986.05	0.744000	0.553536	TREE COVE
5481	557561.61	185117.51	985.76	0.912000	0.831744	TREE COVE
5482	557562.73	185114.91	985.79	0.903000	0.815409	TREE COVE
5483	557564.03	185112.26	985.84	0.883000	0.779689	TREE COVE
5484	557565.67	185110.24	985.97	0.801000	0.641601	TREE COVE
5485	557566.95	185107.06	985.79	1.006000	1.012036	TREE COVE
5486	557563.89	185105.49	985.47	0.884000	0.781456	TREE COVE
5487	557562.18	185108.50	985.50	1.124000	1.263376	TREE COVE
5488	557560.27	185111.33	985.47	1.102000	1.214404	TREE COVE
5489	557559.15	185113.43	985.51	1.030000	1.060900	TREE COVE
5490	557557.94	185115.81	985.51	0.986000	0.972196	TREE COVE
5491	557553.10	185113.28	985.20	0.765000	0.585225	TREE COVE
5492	557554.71	185109.93	985.17	0.835000	0.697225	TREE COVE
5493	557556.52	185107.03	985.14	0.812000	0.659344	TREE COVE
5494	557558.71	185103.48	985.14	0.678000	0.459684	TREE COVE
5495	557561.04	185099.77	985.20	0.423000	0.178929	TREE COVE
5496	557575.53	185106.70	986.49	0.349000	0.121801	TREE COVE
5497	557574.16	185108.38	986.24	0.732000	0.535824	TREE COVE
5498	557572.12	185112.88	986.50	0.586000	0.343396	TREE COVE
5499	557570.14	185116.39	986.51	0.532000	0.283024	TREE COVE
5500	557568.40	185119.84	986.49	0.518000	0.268324	TREE COVE

SUM	153.953299
AVERAGE	0.186610059
RMSE	0.431983865
ACCURACYZ	0.846688375

FIELD NOTES

Project FEMA ground survey notes

Contains point number and descriptions

Includes Control and Check Points left out of statistical analysis

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WRDC Ground-Truthing 2010/2011

- 2010 { 22-1269.20 Vernam County
- 22-1332.20 Adams County
- 22-1336.10 Sumner County
- 22-1343.10 Minnroe County
- 22-1369.10 Iowa County
- 22-1370.10 Crawford County Corridor



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LEVEL

No. 311

- 2011 { ~~22-1380~~ 22-1380. Green County
- 22-1385. LaFayette County

426

5-24-11 Lafayette County Ground-Truthing

Trace Vegeter

Location 1:

- * Base setup @ PID "DH5004" (Cadi's N GPS)
- * Checked into PID "DH4978" (South Wayne GPS)
- Vertical within 0.05' ✓
- ✓ Tall Grass/Weeds: ~~1376~~ 2000 - 2024
- ✓ Mowed Grass: 2025 - 2050
- ✓ Brush/Low Trees: 2051 - 2075
- ✓ Asphalt: 2076 - 2100
- ✓ Gravel: 2101 - 2125
- ✓ Tree Cover: ~~5276~~ 5300

5-26-11

Location 2:

- * Base setup @ PID "DH5010" (Shullsburg E GPS)
- * Checked into PID "DH501" (Shullsburg S GPS)
- Vertical within 0.05' ✓
- ✓ Tree Cover: 5326 - 5350
- ✓ Concrete: 2151 - 2175
- ✓ Asphalt: 2176 - 2200
- ✓ Mowed Grass: 2201 - 2225
- ✓ Tall Grass/Weeds: 2226 - 2245
- ✓ Gravel: 2246 - 2275
- ✓ Asphalt (more urban): 2276 - 2300
- ✓ Brush/Low Trees: 2325 - 2350

~~5-28~~
5-28-2011Location 3:

- * Base setup @ PID "DH5023" (Darlington S GPS)
- * Checked into PID "DH524" (Seymour E GPS)
- Vertical within 0.08' ✓
- ✓ Tall Grass/Weeds: 2526 - 2550
- ✓ Brush/Low trees: 2551 - 2575
- ✓ Mowed Grass: 2576 - 2600
- ✓ Asphalt: 2601 - 2625
- ✓ Concrete: 2626 - 2650
- ✓ Gravel: 2651 - 2675
- ✓ Tree Cover: 5426 - 5450

~~5-27~~
5-27-2011Location 4:

- * Base setup @ PID "DH5247" (Belmont S GPS)
- * Checked PID "DH5013" (Belmont W GPS)
- Vertical within 0.05' ✓
- ✓ Tree Cover: 5376 - 5400
- ✓ Concrete: 2376 - 2400
- ✓ Asphalt: 2401 - 2425
- ✓ Tall Grass/Weeds: 2426 - 2450
- ✓ Brush/Low Trees: 2451 - 2475
- ✓ Mowed Grass: 2476 - 2500

5-28-2011 Lafayette Co. Ground-Truthing

Location 5:

* Base setup @

* Checked into

Vertical within 0.05'

✓ Tall grass/weeds: 2701-2725

✓ Brush/Low Trees: 2726-2750

✓ Mowed Grass: 2751-2774

✓ Asphalt: 2776-2800

✓ Concrete: 2801-2825

✓ Tree Cover: ~~5426-5450~~ 5476-5500