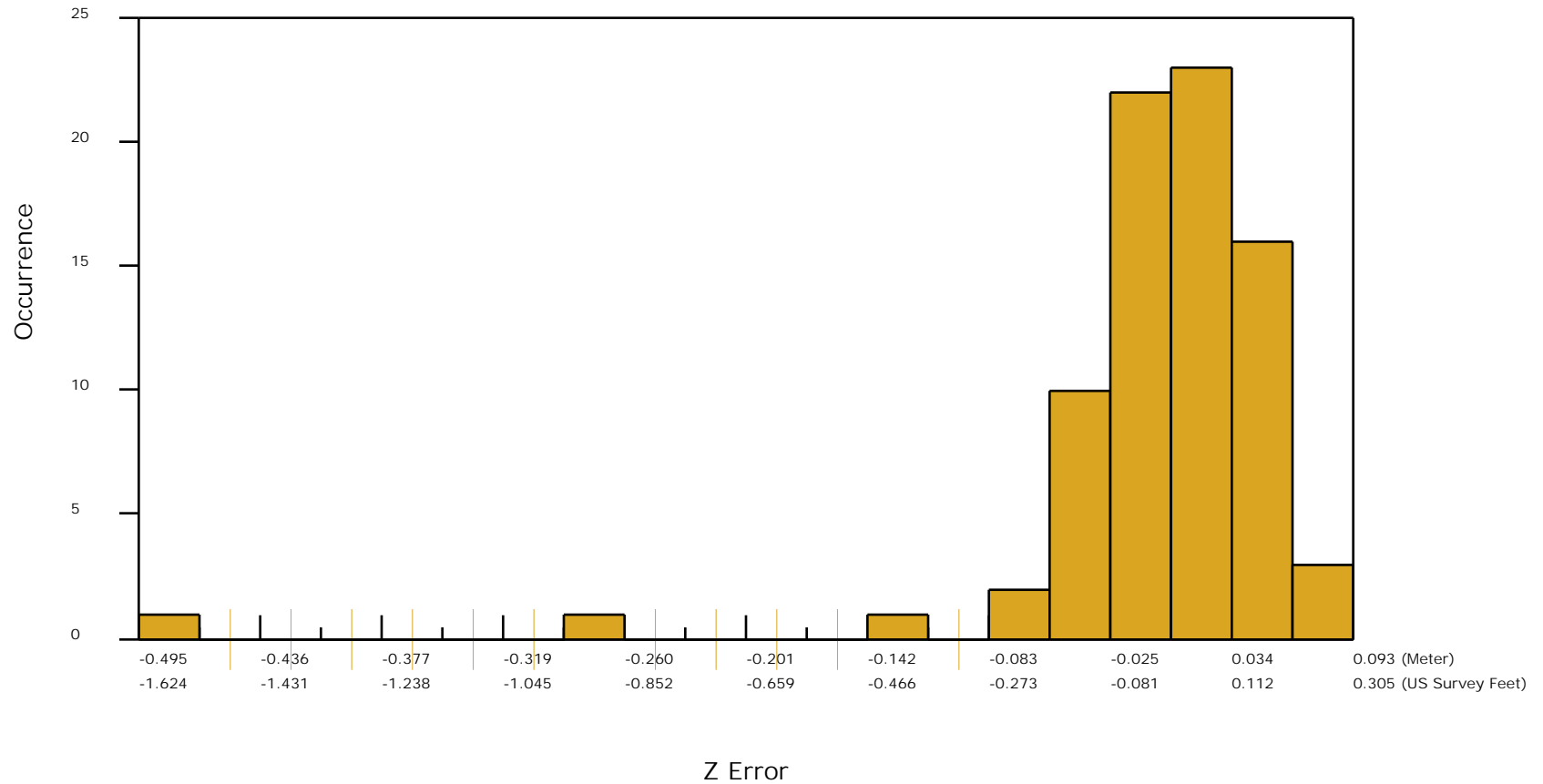


DPH-11 Report on Absolute Vertical Accuracy - continued

The purpose of this section is to show a frequency distribution chart of the non-vegetated vertical accuracy (NVA) of the lidar point cloud data measured against surveyed ground check points.

[Data Source - V:\Mapping\Projects\65221205_IL_MidNorth\Production\Final_Client_Deliverables\229058\IL_MidNorth_1_D22_229055\point_cloud\tilecls](#)

NVA (lidar data)

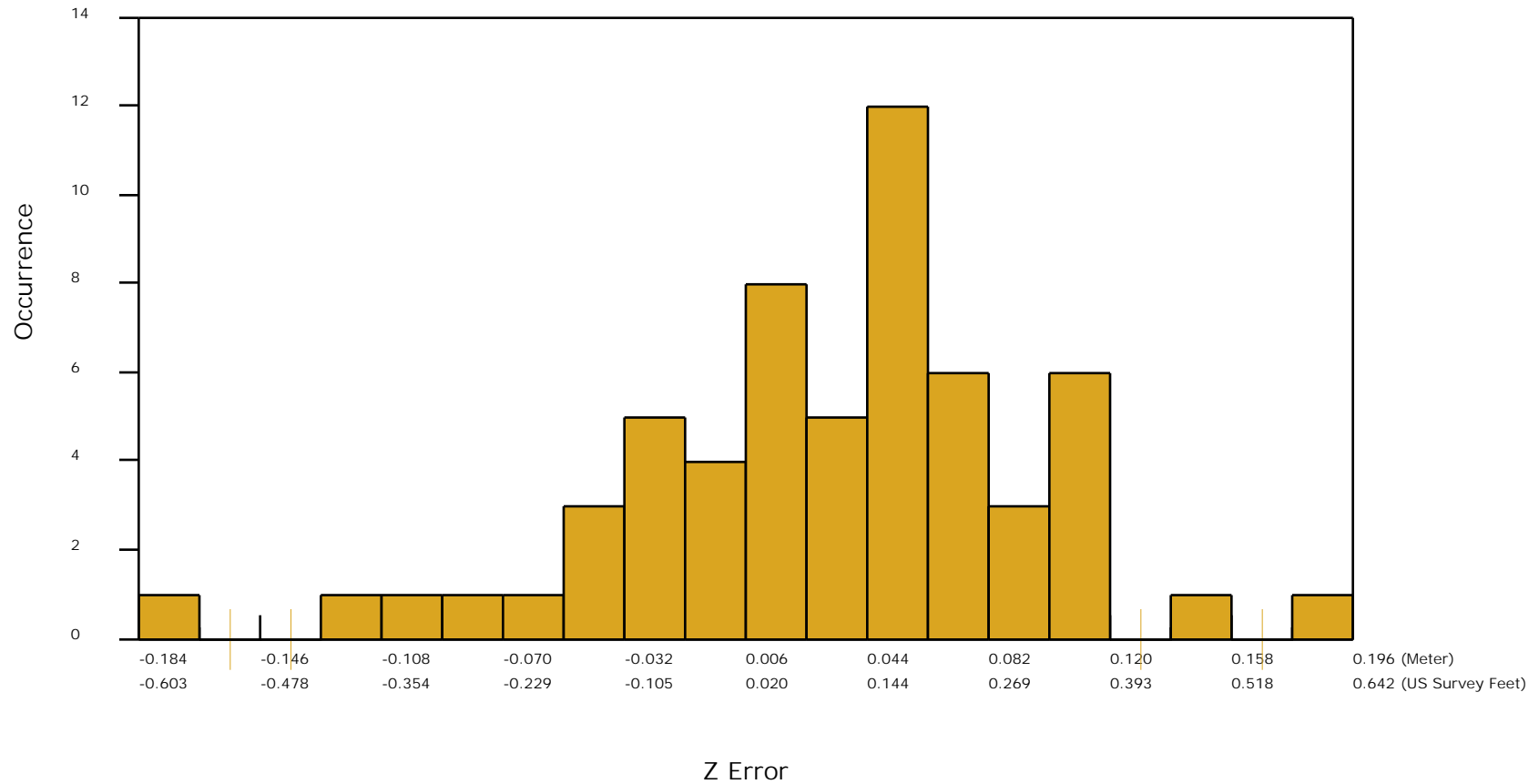


DPH-11 Report on Absolute Vertical Accuracy - continued

The purpose of this section is to show a frequency distribution chart of the vegetated vertical accuracy (VVA) of the lidar point cloud data measured against surveyed ground check points.

[Data Source - V:\Mapping\Projects\65221205_IL_MidNorth\Production\Final_Client_Deliverables\229058\IL_MidNorth_1_D22_229055\point_cloud\tilecls](#)

VVA (lidar data)



DPH-11 Report on Absolute Vertical Accuracy - continued

The purpose of this section is to report the results of measuring the DEM data against surveyed ground NVA (nonvegetated vertical accuracy) check points. All XY coordinates and Z values reported are in the selected data units.

NVA (DEM)

ID	X	Y	Coverage	Z	Z From Lidar	Z Error	Description	Comments
5002	2247623.4	1392982.36	Yes	504.62	504.722	0.102		
5003	2121771.51	1505691.32	Yes	733.48	733.328	-0.152		
5007	2223753.14	1290567.75	Yes	652.34	652.119	-0.221		
5011	2248162.27	1566590.47	Yes	791.22	791.313	0.093		
5012	2251504.94	1342148.78	Yes	648.18	648.148	-0.032		
5012A	2268860.53	1338574.15	Yes	619.93	619.990	0.060		
5015	2117283.24	1666372.02	Yes	741.41	741.268	-0.142		
5016	2224439.98	1347252.67	Yes	734.02	733.996	-0.024		
5020	2221718.5	1455137.82	Yes	637.02	637.078	0.058		
5020A	2222975.02	1456695.92	Yes	639.6	639.592	-0.008		
5021	2188277.45	1601872.05	Yes	694.05	694.036	-0.014		
5022	2297582.32	1619678.46	Yes	759.81	759.767	-0.043		
5025	2134445.92	1583623.05	Yes	594.16	594.308	0.148		
5025A	2131583.36	1598418.04	Yes	598.33	598.275	-0.055		
5027	2141349.64	1624882.72	Yes	675.21	675.179	-0.031		
5029	2165355.7	1542656.72	Yes	762.57	762.657	0.087		
5032	2170527.12	1353206.47	Yes	633.99	634.038	0.048		
5038	2157938.77	1581935.83	Yes	660.47	660.548	0.078		
5039	2044582.73	1462131.07	Yes	547.41	547.498	0.088		
5039A	2047402.97	1480439.39	Yes	539.66	539.593	-0.067		
5044	2220364.07	1651976.28	Yes	802.55	802.394	-0.156		
5053	2315441.33	1577063.65	Yes	795.76	795.801	0.041		
5056	2155746.51	1386709.41	Yes	655.38	655.241	-0.139		
5058	2174867.49	1673097.81	Yes	753.93	753.984	0.054		
5058A	2180882.66	1651863.2	Yes	788.42	788.446	0.026		
5063	2121058.77	1369049.18	Yes	694.48	694.326	-0.154		
5064	2213485.54	1440014.85	Yes	667.27	667.273	0.003		
5065	2243966.69	1532350.74	Yes	769.82	769.703	-0.117		
5069	2134001.91	1417947.21	Yes	752.52	752.630	0.110		
5069A	2155786.46	1420178.35	Yes	722.26	722.472	0.212		

Check Points Vertical Accuracy - continued

ID	X	Y	Coverage	Z	Z From Lidar	Z Error	Description	Comments
5070	2076474.95	1686969.51	Yes	696.41	696.398	-0.012		
5071	2042328.46	1511411.74	Yes	522.92	522.966	0.046		
5076	2311015.45	1341030.1	Yes	491.02	491.000	-0.020		
5077	2268996.24	1472204.69	Yes	537.77	538.049	0.279		
5081	2235049.84	1571876.07	Yes	784.61	783.764	-0.846		
5082	2200009.53	1538596.05	Yes	772.61	772.603	-0.007		
5083	2066192.57	1664906.48	Yes	579.23	579.359	0.129		
5084	2131913.07	1348168.72	Yes	663.88	663.977	0.097		
5087	2296667.66	1504870.5	Yes	632.48	632.304	-0.176		
5088	2049404.27	1485246.95	Yes	539.14	539.188	0.048		
5090	2193624.59	1505171.71	Yes	709.97	710.110	0.140		
5092	2202922.1	1414318.24	Yes	642.65	642.572	-0.078		
5096	2173750.53	1333009.22	Yes	663.57	663.570	0.000		
5096A	2165757.11	1331701.57	Yes	595.1	595.326	0.226		
5100	2102186.92	1417384.77	Yes	729.5	729.746	0.246		
5101	2242661.91	1296932.27	Yes	710.42	710.471	0.051		
5102	2083242.68	1554353.84	Yes	567.07	567.154	0.084		
5103	2156955.82	1481107.52	Yes	749.74	749.745	0.005		
5107	2107669.18	1700938.94	Yes	733.58	733.516	-0.064		
5108	2113976.1	1468276.07	Yes	761.57	761.365	-0.205		
5110	2298562.67	1445596	Yes	739.97	739.861	-0.109		
5111	2286465.27	1527257.77	Yes	685.66	685.733	0.073		
5112	2278543.55	1279417.74	Yes	459.97	459.745	-0.225		
5112A	2277763.42	1314101.16	Yes	610.84	611.135	0.295		
5114	2290002.74	1336996.7	Yes	486.38	486.316	-0.064		
5115	2156307.64	1699093.33	Yes	808.27	808.207	-0.063		
5116	2086351.47	1615987.75	Yes	542.92	542.980	0.060		
5118	2093012.47	1363161.1	Yes	632.11	632.234	0.124		
5119	2204603.15	1366305.61	Yes	646.51	646.479	-0.031		
5124	2088922.41	1321213.34	Yes	642.52	642.608	0.088		
5127	2266093.85	1423776.26	Yes	636.26	636.436	0.176		
5130	2231598.99	1510539.53	Yes	716.94	716.863	-0.077		
5131	2258105.78	1442258.56	Yes	550.08	550.077	-0.003		
5132	2297851.07	1360039.98	Yes	568.87	567.224	-1.646		
5134	2279272.41	1604969.79	Yes	806.59	806.629	0.039		

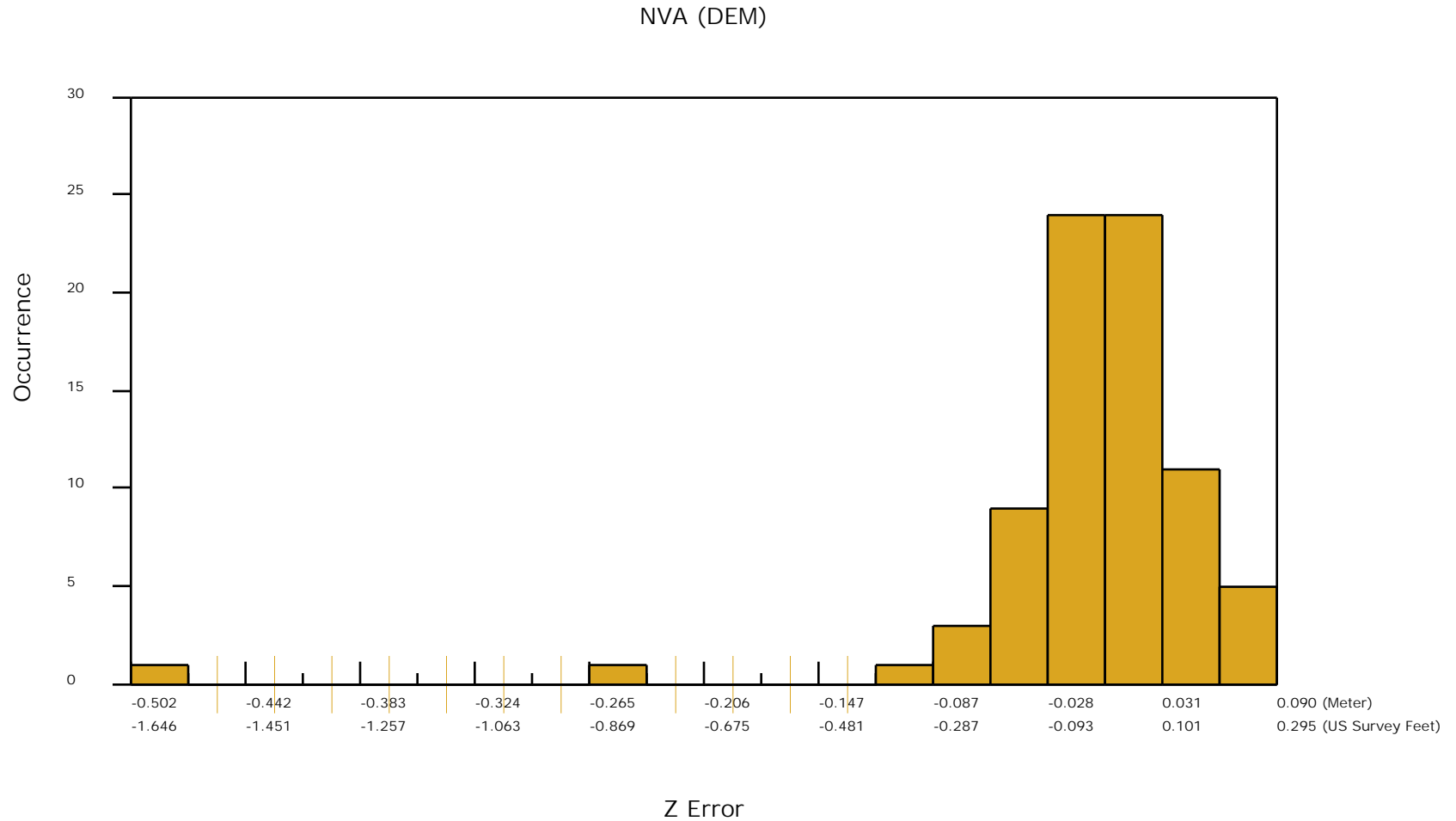
Check Points Vertical Accuracy - continued

ID	X	Y	Coverage	Z	Z From Lidar	Z Error	Description	Comments
5136	2265026.79	1588464.51	Yes	834.79	834.892	0.102		
5137	2289968.63	1391462.18	Yes	686.75	686.625	-0.125		
5141	2230432.84	1479624.62	Yes	650.14	650.295	0.155		
5148	2068374.99	1642265.89	Yes	583.79	583.706	-0.084		
5149	2091349.84	1486512.35	Yes	676.49	676.553	0.063		
5150	2204384.57	1695464.02	Yes	798.13	798.320	0.190		
5155	2298129.2	1554659.71	Yes	601.29	601.346	0.056		
5158	2292310.51	1418018.51	Yes	676.83	676.461	-0.369		
5160	2107872.24	1557758.92	Yes	719.16	719.197	0.037		
5164	2071081.6	1687014.1	Yes	692.34	692.317	-0.023		
5167	2076988.48	1529202.55	Yes	549.41	549.384	-0.026		
5168	2067224.77	1501255.44	Yes	577.06	577.132	0.072		
5169	2232715.21	1617458.61	Yes	785.6	785.723	0.123		
5175	2143103.2	1650658.53	Yes	740.4	740.365	-0.035		

DPH-11 Report on Absolute Vertical Accuracy - continued

The purpose of this section is to show a frequency distribution chart of the non-vegetated vertical accuracy (NVA) of the DEM data measured against surveyed ground check points.

[Data Source - V:\Mapping\Projects\65221205_IL_MidNorth\Production\Final_Client_Deliverables\229058\IL_MidNorth_1_D22_229055\point_cloud\tilecls](#)



DPH-11 Report on Absolute Vertical Accuracy - continued

The purpose of this section is to report the results of measuring the DEM data against surveyed ground VVA (vegetated vertical accuracy) check points. All XY coordinates and Z values reported are in the selected data units.

VVA (DEM)

ID	X	Y	Coverage	Z	Z From Lidar	Z Error	Description	Comments
6002	2233278.8	1396225.8	Yes	646.96	647.031	0.071		
6003	2127163.59	1502696.87	Yes	735.51	735.611	0.101		
6007	2244314.57	1295048.3	Yes	670.23	670.292	0.062		
6011	2233228.09	1562033.46	Yes	771.27	771.579	0.309		
6012	2251705.32	1342436.89	Yes	653.86	654.037	0.177		
6015	2099813.73	1650659.88	Yes	685.36	685.490	0.130		
6016	2222851.33	1347622.33	Yes	713.36	713.576	0.216		
6020	2223586.44	1456685.42	Yes	640.07	639.812	-0.258		
6020A	2221644.07	1455054.99	Yes	636.53	636.760	0.230		
6021	2188637.11	1601153.33	Yes	691.61	691.893	0.283		
6022	2297509.28	1621711.07	Yes	761.2	761.136	-0.064		
6025	2136516.33	1581478.64	Yes	616.98	617.461	0.481		
6025A	2131530.94	1593873.2	Yes	584.62	584.579	-0.041		
6027	2135660.39	1655439.11	Yes	720.87	721.146	0.276		
6029	2167726.68	1542903.4	Yes	766.9	767.020	0.120		
6032	2159979.5	1353298.34	Yes	639.73	639.126	-0.604		
6038	2189284.33	1564455.85	Yes	745.49	745.784	0.294		
6039	2045232.51	1462050.44	Yes	547.64	547.737	0.097		
6044	2218928.56	1652373.2	Yes	798.39	798.499	0.109		
6056	2156670.15	1386268.67	Yes	704.97	704.974	0.004		
6058	2175669.16	1675681.52	Yes	784.92	785.095	0.175		
6058A	2182342.19	1651546.16	Yes	792.62	792.716	0.096		
6063	2122109.88	1369351.23	Yes	693.99	694.164	0.174		
6064	2216528.1	1440343.08	Yes	674.21	674.438	0.228		
6065	2264381.22	1546455.71	Yes	773.51	773.593	0.083		
6069	2155856.01	1417499.85	Yes	711.61	711.660	0.050		
6069A	2157296.9	1420228.76	Yes	724.44	724.641	0.201		
6070	2080616.05	1556734.58	Yes	552.37	552.223	-0.147		
6071	2067311.64	1501685.15	Yes	567.61	567.598	-0.012		
6076	2310649.39	1342275.98	Yes	552.23	551.859	-0.371		

Check Points Vertical Accuracy - continued

ID	X	Y	Coverage	Z	Z From Lidar	Z Error	Description	Comments
6077	2268638.63	1472439.16	Yes	540.56	540.727	0.167		
6081	2233583.07	1574161.44	Yes	776.11	776.268	0.158		
6082	2200095.32	1537323.63	Yes	773.93	774.269	0.339		
6083	2066129.56	1657905.72	Yes	577.26	577.498	0.238		
6084	2131889.06	1340560.6	Yes	636.54	636.797	0.257		
6087	2297112.75	1504265.25	Yes	628.15	628.214	0.064		
6088	2049938.17	1486268.73	Yes	543.4	543.594	0.194		
6088A	2055461	1495697.02	Yes	540.84	540.682	-0.158		
6090	2193801.44	1505538.32	Yes	711.11	711.152	0.042		
6092	2205113.79	1413804.94	Yes	624.64	624.524	-0.116		
6096	2174263.01	1332754.05	Yes	663.73	664.118	0.388		
6096A	2161405.65	1331739.3	Yes	634.86	635.470	0.610		
6100	2101465.33	1415994.78	Yes	718.6	718.261	-0.339		
6101	2300784.51	1361507.95	Yes	588.14	588.010	-0.130		
6102	2076681.01	1528977.27	Yes	549.11	549.203	0.093		
6103	2158898.21	1482767.57	Yes	741.56	741.738	0.178		
6107	2122202.39	1693770.52	Yes	774.59	774.791	0.201		
6108	2114845.94	1467965.27	Yes	756.85	756.916	0.066		
6110	2298499.29	1445773.94	Yes	737.53	737.478	-0.052		
6111	2286833.44	1527579.93	Yes	684.06	684.416	0.356		
6112	2278698.65	1279870.77	Yes	456.51	456.439	-0.071		
6112A	2277794.74	1314105.25	Yes	610.15	610.523	0.373		
6114	2289881.89	1337052.85	Yes	484.5	484.409	-0.091		
6115	2156382.9	1699658.53	Yes	803.1	803.417	0.317		
6116	2089346.19	1615410.13	Yes	572.81	573.004	0.194		
6118	2089319.57	1320959.57	Yes	641.87	641.981	0.111		
6119	2204594.07	1366457.66	Yes	648.65	648.694	0.044		
6124	2201612.17	1694651.97	Yes	788.56	788.635	0.075		
6125	2069422.27	1641109.45	Yes	577.61	577.679	0.069		

DPH-11 Report on Absolute Vertical Accuracy - continued

The purpose of this section is to show a frequency distribution chart of the vegetated vertical accuracy (VVA) of the DEM data measured against surveyed ground check points.

[Data Source - V:\Mapping\Projects\65221205_IL_MidNorth\Production\Final_Client_Deliverables\229058\IL_MidNorth_1_D22_229055\point_cloud\tilecls](#)

