

Check Point Survey Report

**“Nebraska Northeast Phase 2” USGS Contract:
G16PC0020**

Task Order Number: 140G0220F0002

Prepared for:

Geological Survey United States (USGS)



Prepared By:

Merrick and Company

5970 Greenwood Plaza Boulevard

Greenwood Village, Colorado, 80111

Phone (303)751-0741 Fax (303)751-2581

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	Including:	
	A) Point Documentation Report & Photos of Survey Points	
	B) Final Coordinate List in Excel Format	
	C) NGS Data Sheets for Project Controls	

1. INTRODUCTION

1.1 Project Summary

Merrick and Company is under contract through Dewberry Engineers to the United States Geological Survey to provide 270 Check Points in the State of Nebraska. Under the above referenced USGS Task Order, Merrick is tasked to complete the quality assurance of LiDAR products. As part of this work Merrick staff completed Check Point surveys that will be used to evaluate vertical and horizontal accuracy. The ground survey was conducted October 30, 2020 thru November 23, 2020.

Existing NGS Control Points were located and surveyed to check the accuracy of the RTX/GPS survey equipment with the results shown in Section 2.4 of this Report.

As an internal QA/QC procedure and to verify that the Check Points meet the 95% confidence level approximately 50% of the points were re-observed and are shown in Section 5 of this report.

Final horizontal coordinates are referenced to UTM zone 14 North, NAD83 (2011) in meters. Final Vertical elevations are referenced to NAVD88 in meters using Geoid model 2018(Geoid18).

1.2 Points of Contact

Questions regarding the technical aspects of this report should be addressed to:

Dewberry Project Manager:

Emily Klipp

Dewberry Consultants LLC

1000 N. Ashley Drive, Suite 801

Tampa, FL 33602

Phone: 813.421.8651 Email: esklipp@dewberry.com

Subcontractor:

Jeremy Blei, PE

Senior Program Manager

Ahtna Solutions, LLC

110 W 38th Ave, Ste 200J

Anchorage, AK907.563.3233

Brian Holzworth, GISP

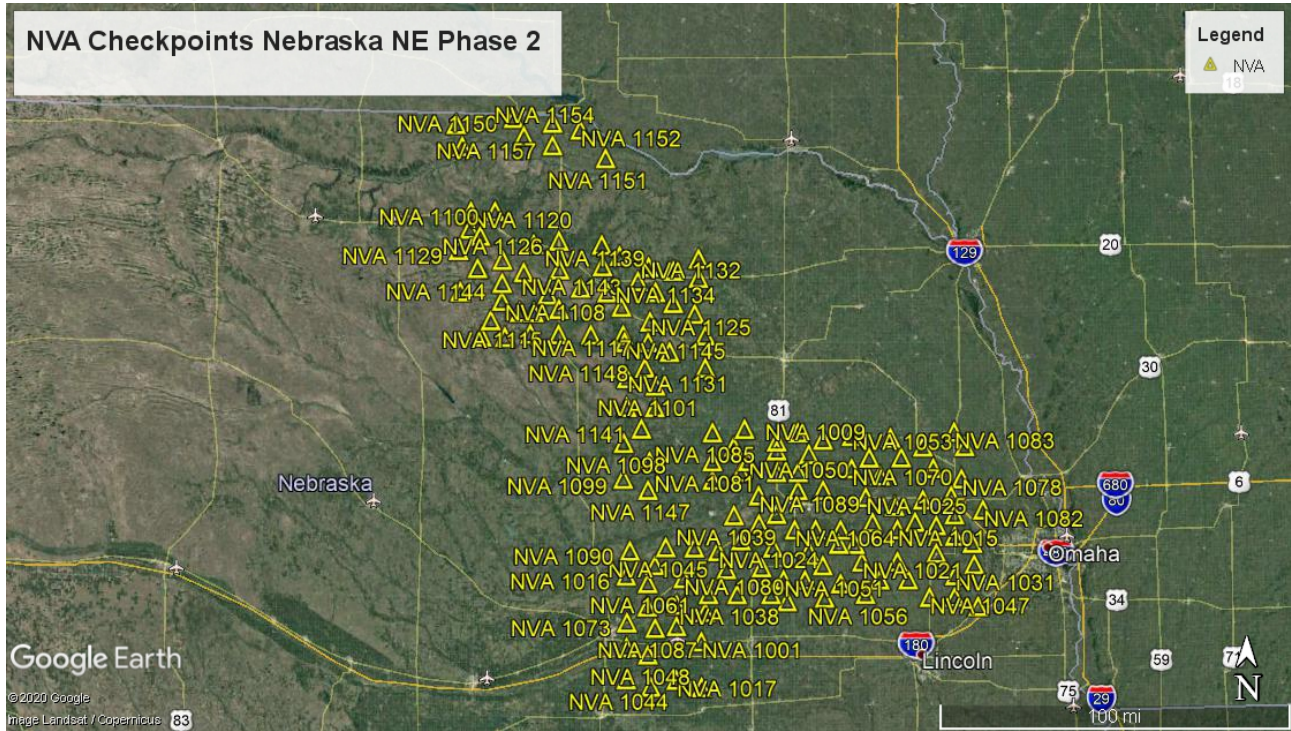
Sr. Project Manager

Merrick & Company

Direct 303.353.3952

Brian.holzworth@merrick.com

1.3 Project Area



PROJECT DETAILS

2.1 Survey Equipment

In performing the GPS observations Trimble R-10 GNSS receiver/antenna attached to a 1.344meter fixed height pole with a Trimble TSC3 Data Collector to collect GPS raw data were used to perform the field surveys. Pole height was used for stability in windy conditions and lock on satellites while traveling in truck.

2.2 Survey Point Detail

The 270 Check Points were well distributed throughout the project area.

A sketch was made for each location and a nail was set at the point where possible or at an identifiable point. The Check Point locations are detailed on the “Check Point Documentation Report” sheets attached to this report.

2.3 Network Design

Equipment used for this project included two Trimble R10 GNSS receiver with RTX service provided by Trimble (A satellite-based service using worldwide continuously operating reference stations). Horizontal and vertical measurements were verified by recovering and observing coordinates from the Trimble R10 GNSS receiver with the RTX service to 43 NGS (National Geodetic Survey) ground stations

2.4 Field Survey Procedures and Analysis

Merrick field surveyors used Trimble R-10 GNSS receivers, which is a geodetic quality dual frequency GPS receiver, to collect data at each surveyed location.

All locations were occupied once with approximately 50% of the locations being re-observed at a minimum of 4-hour difference in satellite configuration. Points were re-observed until a matching coordinate was obtained. All re-observations matched the initially derived station positions within the allowable tolerance of $\pm 5\text{cm}$ or within the 95% confidence level.

Field GPS observations are detailed on the "Control Point Documentation Reports" submitted as part of this report.

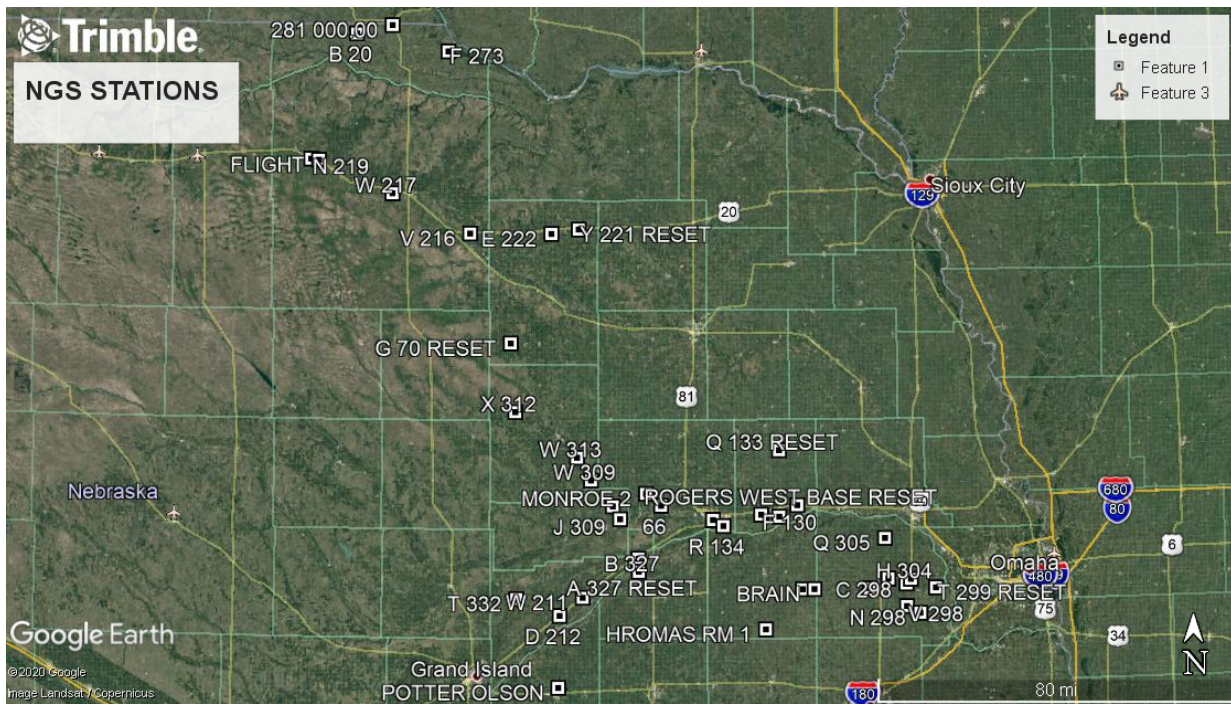
As an additional check, Merrick field crews shot 45 extra NVA and VVA points with a B letter suffix. Those points are included at the bottom of section 3 in this report.

Forty-three (43) existing NGS monument listed in the NSRS database were located as an additional QA/QC method to check the horizontal and vertical accuracy of the RTX network. The results are as follows:

PT NAME	MEASURED VALUES			RECORD VALUES			DIFFERENCES				
	UTM ZONE 14 NORTH			NAVD 88	UTM ZONE 14 NORTH			NAVD 88	NORTHING	EASTING	ELEVATION
	NORTHING	EASTING	ELEVATION	NORTHING	EASTING	ELEVATION					
	METERS	METERS	METERS	METERS	METERS	METERS					
66	4592377.668	620169.751	459.898			459.952				-0.054	
281000	4760628.551	522370.929	556.758	4760628.48	522370.894	556.804	0.073	0.035		-0.046	
A327RESET	4570436.361	612554.119	474.489			474.53				-0.041	
B20	4757491.779	509764.846	570.156			570.079				0.077	
B327	4569009.818	612637.476	474.226			474.271				-0.045	
BRAIN	4563696.387	674987.336	496.921	4563696.3	674987.316	496.9	0.087	0.020		0.021	
C298	4566035.788	707732.434	370.002			369.984				0.018	
D212	4552985.867	584794.323	516.367			516.341				0.026	
E222	4687470.910	579969.597	559.116			559.089				0.027	
E309	4591938.043	603067.656	486.678			486.676				0.002	
F130	4589727.115	655640.569	418.470			418.503				-0.033	
F273	4751506.179	542410.794	518.360	4751506.13	542410.758	518.34	0.053	0.036		0.020	
FLIGHT	4712578.641	497089.851	650.493	4712578.58	497089.828	650.5	0.058	0.023		-0.007	
G70	4648739.502	566163.767	598.172	4648739.46	566163.73	598	0.045	0.037		0.172	
H304	4567707.890	709292.188	366.611			366.659				-0.048	
HROMASRM1	4549226.125	657990.341	498.558	4549226.08	657990.335	498.56	0.048	0.006		-0.002	
J309	4587421.680	605747.338	475.017			475.059				-0.042	
J329RESET	4589106.525	662089.510	411.367			411.4				-0.033	
LUDI	4567755.207	701259.240	372.317	4567755.14	701259.212	372.35	0.065	0.028		-0.033	
MONROE2	4596497.657	614763.184	527.426	4596497.58	614763.185	527.5	0.077	-0.001		-0.074	
N219	4712924.107	494317.536	651.083			651.117				-0.034	
N298	4555718.135	712883.740	350.035	4555718.08	712883.718	350.094	0.057	0.022		-0.059	
POTTEROLSEN	4527484.873	584650.955	547.864	4527484.83	584650.947	547.96	0.047	0.008		-0.096	
Q133RESET	4612554.784	661619.992	464.200			464.25				-0.050	
Q305	4582070.553	699776.624	390.982			391.093				-0.111	
R134	4585535.252	642336.115	432.502	4585535.19	642336.063	432.504	0.060	0.052		-0.002	
RAIL	4587639.333	638557.305	438.247	4587639.21	638557.323	438.348	0.119	-0.018		-0.101	
RAILRM1	4587623.847	638606.753	438.347			438.359				-0.012	
ROGERSWESTBASE	4593258.549	668417.994	406.184	4593258.5	668417.977	406.2	0.054	0.017		-0.016	
SKULLLAZMK	4563597.730	670875.336	502.005	4563597.67	670875.316	502.00	0.060	0.020		0.005	
T81	4564170.261	694650.626	375.480			375.503				-0.023	
T299RESET	4564778.080	718278.443	368.643			368.74				-0.097	
T332	4558704.937	569350.199	532.308	4558704.9	569350.225	532.337	0.038	-0.026		-0.029	
V216	4687228.191	551197.902	589.585	4687228.11	551197.876	589.619	0.077	0.026		-0.034	
V298	4558050.733	708071.531	342.287			342.308				-0.021	
W211	4559548.405	592872.192	502.678			502.718				-0.040	
W217	4701065.405	523424.545	608.389	4701065.34	523424.346	608.382	0.065	0.199		0.007	
W309	4600912.792	595190.372	503.877			503.934				-0.057	
W313	4608885.332	590200.076	516.914			516.91				0.004	
X312	4624596.014	568104.740	614.079			614.071				0.008	
Y221 RESET	4689190.007	589592.904	545.975	4689189.96	589592.911	545.96	0.051	-0.007		0.015	
Y297	4567602.129	701214.826	372.268	4567602.08	701214.799	372.306	0.047	0.027		-0.038	
Y326RESET	4573461.698	612295.956	474.346			474.36				-0.014	

The above results indicate that the RTX network is providing positional values within the 5cm parameters for this survey. Crustal movement is consistent in this area and generally to the North.

NGS Monuments



2.5 Adjustment

The survey data was collected using RTX methodology. RTX is a satellite-based network using CORS stations as control.

The system is designed to provide a true Network RTX performance enables high-accuracy positioning in real time globally. The RTX satellite sends corrections to the roving receiver in real time. Therefore, corrections were applied to the points as they were being collected, thus negating the need for a post process adjustment.

2.6 Data Processing Procedures

Field data is collected the information is downloaded from the data collectors into the office software. RTX data is collected in ITRF(2014) The Software program used is called Trimble Business Center version 5.32.

Downloaded data is exported in decimal degrees to 9 places from TBC program to obtain an import for NGS program called HTDP. Horizontal Time Dependent Positioning converts the data to NAD83(2011). The points are then imported back to TBC with the coordinate system required for the project. UTM zone 14 was used for this project and a current geoid model 18 to derive elevations.

The point data is then reviewed to verify the conversion by comparing NGS published values to collected values. Once this is verified, the coordinates for NVA, VVA, and Calibration points are delivered to mapping for further checking.

NVA and VVA coordinates are listed below:

3. FINAL COORDINATES/ELEVATIONS

PT #	UTM ZONE 14 NORTH		NAVD88	CODE	NOTE
	NORTHING	EASTING	ELEVATION		
			GEOID 18		
1001	4526524.207	595701.224	536.471	LIPT	NVA
1002	4588866.090	681488.941	394.102	LIPT	NVA
1003A	4581915.664	690947.301	396.364	LIPT	NVA
1004	4523236.831	562005.186	572.245	LIPT	NVA
1005	4542839.580	584214.912	553.812	LIPT	NVA
1006	4553663.440	657871.306	485.406	LIPT	NVA
1007	4616198.351	712726.065	400.204	LIPT	NVA
1008A	4580468.672	700604.040	389.529	LIPT	NVA
1009	4617948.008	648615.910	491.714	LIPT	NVA
1010	4619410.901	678998.264	415.679	LIPT	NVA
1011	4572210.811	612566.329	473.363	LIPT	NVA
1012	4563935.723	683340.784	424.409	LIPT	NVA
1013	4505638.362	573251.304	557.430	LIPT	NVA
1014	4567972.044	643177.680	495.239	LIPT	NVA
1015A	4578380.121	683006.625	456.613	LIPT	NVA
1016	4555406.203	561278.019	557.640	LIPT	NVA
1017	4508973.869	584697.194	539.723	LIPT	NVA
1018	4577817.734	657349.661	433.650	LIPT	NVA
1019A	4545189.891	633933.245	498.401	LIPT	NVA
1020	4533145.216	584310.114	551.876	LIPT	NVA
1021	4563564.668	667303.578	514.329	LIPT	NVA
1022	4611396.242	642319.242	477.481	LIPT	NVA

1023	4603277.500	637643.750	502.989	LIPT	NVA
1024	4567148.930	602289.402	487.084	LIPT	NVA
1025A	4592578.532	668436.730	407.623	LIPT	NVA
1026	4541736.160	570992.391	538.866	LIPT	NVA
1027	4612780.686	627794.878	515.191	LIPT	NVA
1028	4547812.616	598460.854	529.760	LIPT	NVA
1029	4505855.006	596124.076	524.667	LIPT	NVA
1030	4571483.955	663951.321	464.375	LIPT	NVA
1031	4558102.566	709628.966	342.733	LIPT	NVA
1032	4610320.729	669607.230	437.818	LIPT	NVA
1033	4559223.819	606267.600	531.899	LIPT	NVA
1034	4544356.196	720459.818	331.800	LIPT	NVA
1035	4560241.738	622154.879	495.915	LIPT	NVA
1036	4569249.733	627036.263	487.815	LIPT	NVA
1037	4563219.297	718206.576	359.909	LIPT	NVA
1038	4548010.229	611301.300	518.724	LIPT	NVA
1039	4583423.045	609172.060	480.838	LIPT	NVA
1040	4577670.764	646085.114	444.383	LIPT	NVA
1041A	4584382.248	628352.041	449.957	LIPT	NVA
1042	4591875.405	694251.711	379.215	LIPT	NVA
1043	4568616.580	591627.673	504.686	LIPT	NVA
1044	4508747.816	562157.541	578.748	LIPT	NVA
1045	4568511.117	578794.323	531.090	LIPT	NVA
1046	4555659.909	675518.002	457.727	LIPT	NVA
1047	4548120.475	698275.767	365.536	LIPT	NVA
1048	4520141.463	571690.251	562.225	LIPT	NVA
1049	4603124.534	627971.853	499.441	LIPT	NVA
1050	4607728.459	615019.632	487.462	LIPT	NVA

1051	4554827.808	632099.862	482.609	LIPT	NVA
1052	4568014.232	700888.455	372.530	LIPT	NVA
1053	4619796.517	661455.952	494.408	LIPT	NVA
1054	4571411.368	656641.641	498.998	LIPT	NVA
1055A	4581339.802	671708.580	435.989	LIPT	NVA
1056	4549060.358	669250.600	467.719	LIPT	NVA
1057	4614065.184	608435.480	528.267	LIPT	NVA
1058	4610672.767	684095.929	432.784	LIPT	NVA
1059	4539737.554	597122.841	535.657	LIPT	NVA
1060	4595418.566	649075.962	451.029	LIPT	NVA
1061	4552275.618	571004.239	537.088	LIPT	NVA
1062	4547085.569	650807.355	460.818	LIPT	NVA
1063	4595181.006	637692.237	467.039	LIPT	NVA
1064	4577484.082	636641.218	449.751	LIPT	NVA
1065	4602364.418	674635.282	415.550	LIPT	NVA
1066	4593939.808	707050.696	367.615	LIPT	NVA
1067	4575829.364	709070.282	416.662	LIPT	NVA
1068	4616821.172	627773.261	513.606	LIPT	NVA
1069	4585429.328	708698.991	386.941	LIPT	NVA
1070	4605320.268	661783.995	457.703	LIPT	NVA
1071	4560376.666	574084.960	527.691	LIPT	NVA
1072	4555047.357	641734.396	486.797	LIPT	NVA
1073	4534405.510	561959.069	553.003	LIPT	NVA
1074	4561626.825	649718.919	485.867	LIPT	NVA
1075	4606128.834	698673.475	400.253	LIPT	NVA
1076	4615702.916	693773.312	382.480	LIPT	NVA
1077	4579754.053	620494.025	460.068	LIPT	NVA
1078	4601643.924	711578.919	364.371	LIPT	NVA

1079	4555904.976	688418.358	404.833	LIPT	NVA
1080	4554827.450	586995.136	511.871	LIPT	NVA
1081	4607374.971	598984.253	536.811	LIPT	NVA
1082	4587808.973	721638.790	350.955	LIPT	NVA
1083	4622503.598	707769.950	387.128	LIPT	NVA
1084	4572793.578	717181.173	365.513	LIPT	NVA
1085	4620288.299	598819.001	560.254	LIPT	NVA
1086	4548280.823	626610.609	504.666	LIPT	NVA
1087	4532196.783	574712.844	565.978	LIPT	NVA
1088A	4622108.664	613173.863	542.363	LIPT	NVA
1089	4592500.642	620138.133	460.337	LIPT	NVA
1090	4566669.996	562689.742	529.382	LIPT	NVA
1091	4620985.413	637234.084	502.316	LIPT	NVA
1092	4602842.305	611904.755	520.512	LIPT	NVA
1093	4548386.414	709708.356	378.702	LIPT	NVA
1094	4599008.032	599199.049	517.224	LIPT	NVA
1095	4681940.398	550393.040	572.498	LIPT	NVA
1096	4703275.601	547384.668	584.594	LIPT	NVA
1097	4649162.811	594988.889	546.197	LIPT	NVA
1098	4614859.483	559088.231	583.173	LIPT	NVA
1099	4598792.072	559112.942	610.397	LIPT	NVA
1100	4717394.401	499139.494	643.525	LIPT	NVA
1101	4640741.330	572736.067	622.243	LIPT	NVA
1102	4663102.474	557824.346	585.289	LIPT	NVA
1103	4663594.811	594737.428	562.745	LIPT	NVA
1104	4672580.641	517511.353	644.935	LIPT	NVA
1105	4668591.690	498225.375	705.567	LIPT	NVA
1106	4661199.193	504697.849	695.207	LIPT	NVA

1107	4655925.816	578840.183	597.620	LIPT	NVA
1108	4675633.014	556826.616	560.422	LIPT	NVA
1109	4630740.996	560049.220	625.489	LIPT	NVA
1110	4661763.277	494268.614	709.689	LIPT	NVA
1111	4702982.561	516879.427	624.786	LIPT	NVA
1112	4691801.738	491783.995	680.906	LIPT	NVA
1113	4662984.994	543319.684	612.779	LIPT	NVA
1114	4672495.219	511083.542	658.151	LIPT	NVA
1115	4662894.995	528926.128	628.716	LIPT	NVA
1116	4680584.439	523576.543	632.215	LIPT	NVA
1117A	4660021.147	569086.271	594.461	LIPT	NVA
1118	4631120.000	572641.511	570.314	LIPT	NVA
1119A	4674183.708	528936.391	624.417	LIPT	NVA
1120	4717181.681	488309.586	664.313	LIPT	NVA
1121	4698504.316	555519.228	578.995	LIPT	NVA
1122	4698101.536	591035.885	505.642	LIPT	NVA
1123	4691900.779	528691.784	610.976	LIPT	NVA
1124A	4695667.253	502965.138	658.184	LIPT	NVA
1125	4669313.843	569737.523	541.640	LIPT	NVA
1126	4704683.162	528113.205	613.689	LIPT	NVA
1127	4682529.379	572042.838	588.894	LIPT	NVA
1128	4673177.720	589772.841	545.474	LIPT	NVA
1129	4699674.543	483077.504	689.861	LIPT	NVA
1130	4681223.269	484226.314	717.015	LIPT	NVA
1131	4643823.339	559889.115	622.102	LIPT	NVA
1132C	4689309.276	591191.446	543.956	LIPT	NVA
1133A	4677487.797	503017.570	675.103	LIPT	NVA
1134A	4677819.228	580201.438	566.568	LIPT	NVA

1135	4690297.884	512599.657	650.193	LIPT	NVA
1136	4692339.716	579919.699	555.130	LIPT	NVA
1137	4683921.766	538380.180	605.486	LIPT	NVA
1138	4606895.898	571024.575	581.869	LIPT	NVA
1139	4693637.687	548154.051	593.248	LIPT	NVA
1140	4706277.568	492726.155	657.316	LIPT	NVA
1141	4621389.612	567064.653	609.311	LIPT	NVA
1142	4693732.905	568640.685	549.972	LIPT	NVA
1143	4687373.091	563993.052	591.208	LIPT	NVA
1144A	4685486.502	502996.508	668.978	LIPT	NVA
1145	4659889.021	558520.326	608.987	LIPT	NVA
1146	4662859.828	516089.291	668.745	LIPT	NVA
1147	4594038.790	570298.629	581.048	LIPT	NVA
1148	4648845.672	567860.420	595.628	LIPT	NVA
1149	4709324.483	487883.729	662.982	LIPT	NVA
1150	4759451.802	506555.561	568.951	LIPT	NVA
1151	4742084.998	548368.738	424.026	LIPT	NVA
1152	4754728.098	536710.377	535.249	LIPT	NVA
1153	4756274.254	480850.786	648.951	LIPT	NVA
1154	4757563.355	524232.033	593.003	LIPT	NVA
1155	4746327.627	483712.768	589.379	LIPT	NVA
1156	4751401.887	511386.371	545.191	LIPT	NVA
1157	4747420.607	524368.492	505.272	LIPT	NVA
2001	4526428.995	595646.999	536.195	LIPT	VVA
2002	4588409.885	681695.253	444.147	LIPT	VVA
2003	4581888.642	690957.368	396.249	LIPT	VVA
2004	4553704.284	659437.843	493.932	LIPT	VVA
2005	4580479.237	699859.018	392.145	LIPT	VVA

2006	4619217.047	677423.620	440.326	LIPT	VVA
2007	4573138.172	612470.735	470.815	LIPT	VVA
2008	4563907.766	683802.063	410.458	LIPT	VVA
2009	4505625.533	573485.830	555.514	LIPT	VVA
2010	4568369.202	643161.500	495.593	LIPT	VVA
2011	4555418.282	560871.637	559.961	LIPT	VVA
2012	4577713.384	656594.829	434.334	LIPT	VVA
2013	4533141.233	583581.235	554.726	LIPT	VVA
2014	4611400.021	643533.519	490.051	LIPT	VVA
2015	4592633.844	668854.946	405.504	LIPT	VVA
2016	4541527.508	570825.217	538.087	LIPT	VVA
2017	4548086.754	600078.799	528.819	LIPT	VVA
2018	4505842.524	596108.187	523.490	LIPT	VVA
2019	4571452.700	662955.975	469.381	LIPT	VVA
2020	4558454.309	709633.126	343.445	LIPT	VVA
2021	4559235.988	606634.594	530.622	LIPT	VVA
2022	4544101.923	720141.530	333.391	LIPT	VVA
2023	4560192.242	622174.647	496.278	LIPT	VVA
2024	4563160.680	718055.197	361.671	LIPT	VVA
2025	4548032.489	611493.673	516.815	LIPT	VVA
2026	4583603.892	609162.734	479.782	LIPT	VVA
2027	4583605.358	626800.641	457.233	LIPT	VVA
2028	4591897.893	694257.726	378.667	LIPT	VVA
2029	4568597.979	591475.904	504.581	LIPT	VVA
2030	4508765.573	562241.313	576.806	LIPT	VVA
2031	4568498.041	578826.202	531.085	LIPT	VVA
2032	4555674.081	675761.576	449.847	LIPT	VVA
2033	4547767.329	698513.282	373.205	LIPT	VVA

2034	4519476.786	571758.824	559.187	LIPT	VVA
2035	4603080.827	627973.233	498.907	LIPT	VVA
2036	4607749.166	616648.659	511.651	LIPT	VVA
2037	4568490.665	700846.395	372.004	LIPT	VVA
2038	4619716.749	660510.527	458.984	LIPT	VVA
2039A	4581313.813	671683.241	433.711	LIPT	VVA
2040	4549075.581	669158.663	467.385	LIPT	VVA
2041	4614058.699	609835.160	499.191	LIPT	VVA
2042	4611381.317	684089.670	426.148	LIPT	VVA
2043	4597772.184	649029.844	436.912	LIPT	VVA
2044	4547096.698	651116.428	458.542	LIPT	VVA
2045	4595167.882	637706.117	466.594	LIPT	VVA
2046A	4577433.342	637631.964	446.649	LIPT	VVA
2047	4601510.898	674675.507	413.749	LIPT	VVA
2048	4585550.680	708809.585	378.814	LIPT	VVA
2049	4606773.313	661723.821	464.944	LIPT	VVA
2050	4560400.494	572982.734	526.743	LIPT	VVA
2051	4554995.418	640511.387	490.480	LIPT	VVA
2052	4535404.278	561963.747	551.569	LIPT	VVA
2053	4561623.427	648089.717	482.500	LIPT	VVA
2054	4604996.574	698739.561	382.934	LIPT	VVA
2055	4614857.966	694381.907	380.829	LIPT	VVA
2056	4601646.541	711079.172	364.283	LIPT	VVA
2057	4554847.990	587015.830	511.405	LIPT	VVA
2058	4587257.330	721635.783	349.820	LIPT	VVA
2059	4623364.320	707133.202	375.191	LIPT	VVA
2060	4572802.050	717743.227	361.511	LIPT	VVA
2061	4620298.794	598912.244	565.696	LIPT	VVA

2062	4548958.468	627366.221	504.125	LIPT	VVA
2063	4616957.326	608458.139	505.029	LIPT	VVA
2064	4592306.748	616967.054	464.423	LIPT	VVA
2065	4563357.044	562675.780	541.818	LIPT	VVA
2066A	4618840.673	636450.106	491.420	LIPT	VVA
2067	4552566.643	715894.887	341.708	LIPT	VVA
2068	4599339.869	598990.786	511.928	LIPT	VVA
2069	4678574.699	553846.432	565.898	LIPT	VVA
2070	4703279.126	546659.042	585.750	LIPT	VVA
2071	4649217.412	595765.694	533.600	LIPT	VVA
2072	4598802.593	559162.749	610.756	LIPT	VVA
2073	4709849.438	501597.393	648.510	LIPT	VVA
2074A	4666781.402	594706.824	533.416	LIPT	VVA
2075	4655849.686	578807.260	598.709	LIPT	VVA
2076	4674364.545	558189.529	558.334	LIPT	VVA
2077	4628142.266	560023.403	634.663	LIPT	VVA
2078A	4660210.855	494248.746	712.362	LIPT	VVA
2079	4702603.262	516007.223	617.689	LIPT	VVA
2080	4691746.453	492135.095	680.905	LIPT	VVA
2081	4661357.428	543323.155	610.456	LIPT	VVA
2082C	4672555.341	509588.838	657.900	LIPT	VVA
2083	4680565.553	522351.293	632.499	LIPT	VVA
2084	4631109.156	571787.345	562.023	LIPT	VVA
2085	4674203.042	530677.155	619.965	LIPT	VVA
2086A	4717005.867	488495.977	661.933	LIPT	VVA
2087	4697296.755	591018.761	500.308	LIPT	VVA
2088	4691946.184	531154.053	609.113	LIPT	VVA
2089	4669375.414	566525.049	547.565	LIPT	VVA

2090	4702196.298	528679.027	613.955	LIPT	VVA
2091	4702773.072	483087.744	684.367	LIPT	VVA
2092	4684517.713	490212.486	697.346	LIPT	VVA
2093	4643831.865	559282.789	611.891	LIPT	VVA
2094A	4687804.647	595739.757	541.756	LIPT	VVA
2095A	4690888.397	502973.038	665.945	LIPT	VVA
2096	4679521.619	580154.351	583.169	LIPT	VVA
2097	4689827.269	512574.224	650.309	LIPT	VVA
2098	4687685.979	584908.308	569.488	LIPT	VVA
2099	4606485.497	571032.828	577.422	LIPT	VVA
2100	4694464.484	548214.997	594.268	LIPT	VVA
2101	4702112.300	492742.156	663.690	LIPT	VVA
2102	4621376.286	565333.886	628.363	LIPT	VVA
2103	4693696.729	566749.470	544.069	LIPT	VVA
2104	4659908.622	561354.500	594.392	LIPT	VVA
2105	4663445.915	514328.618	671.537	LIPT	VVA
2106	4596695.698	570298.196	557.958	LIPT	VVA
2107	4648719.506	568324.944	596.788	LIPT	VVA
2108	4757828.978	506595.578	557.478	LIPT	VVA
2109	4742138.923	547220.354	425.220	LIPT	VVA
2110	4756220.096	483861.549	618.967	LIPT	VVA
2111	4759476.362	524212.814	563.817	LIPT	VVA
2112	4746325.945	484852.904	585.680	LIPT	VVA
2113	4746596.762	523418.768	520.150	LIPT	VVA

PT#	UTM ZONE 14 NORTH		NAVD88	CODE	NOTE
	NORTHING	EASTING	ELEVATION		
			GEOID 18		
1011B	4576126.604	614060.653	468.809	LIPT	NVA
1016B	4552198.820	562940.834	544.159	LIPT	NVA
1032B	4607167.238	672912.935	462.617	LIPT	NVA
1036B	4562803.610	627146.225	504.655	LIPT	NVA
1046B	4555738.354	678707.139	412.036	LIPT	NVA
1052B	4567741.073	709276.354	367.556	LIPT	NVA
1055B	4576500.821	672197.676	449.301	LIPT	NVA
1063B	4587657.996	638547.647	439.188	LIPT	NVA
1076B	4612358.444	697250.906	379.117	LIPT	NVA
1088B	4617400.191	616657.503	513.670	LIPT	NVA
1092B	4596462.083	610573.644	520.221	LIPT	NVA
1097B	4648854.350	578943.711	585.504	LIPT	NVA
1106B	4661211.354	502912.171	699.441	LIPT	NVA
1120B	4717381.331	490936.864	661.115	LIPT	NVA
1123B	4698228.115	526555.811	605.318	LIPT	NVA
1128B	4669956.112	589816.780	572.290	LIPT	NVA
1129B	4698081.952	494955.365	670.787	LIPT	NVA
1132B	4687706.839	592790.244	554.435	LIPT	NVA
1133B	4680454.394	503018.717	671.748	LIPT	NVA
1146B	4659643.638	520787.321	658.733	LIPT	NVA
1150B	4759451.800	506555.534	568.934	LIPT	NVA
1152B	4751514.278	542440.611	519.033	LIPT	NVA
2002B	4588406.079	681710.912	444.009	LIPT	VVA
2007B	4576080.366	614082.432	468.455	LIPT	VVA

2023B	4564409.698	627131.941	502.657	LIPT	VVA
2032B	4555670.947	678706.417	410.855	LIPT	VVA
2037B	4567742.020	709258.213	366.069	LIPT	VVA
2041B	4617445.134	616656.092	512.718	LIPT	VVA
2045B	4587702.817	638567.224	438.391	LIPT	VVA
2047B	4607895.179	672866.717	432.018	LIPT	VVA
2050B	4552057.602	571028.305	536.587	LIPT	VVA
2055B	4612342.621	697258.993	377.664	LIPT	VVA
2059B	4576480.984	672184.189	447.014	LIPT	VVA
2064B	4596470.378	610568.499	519.609	LIPT	VVA
2074B	4670008.841	594593.685	542.807	LIPT	VVA
2075B	4664002.132	580577.665	526.644	LIPT	VVA
2078B	4661197.971	502068.331	697.582	LIPT	VVA
2079B	4698185.109	516897.880	624.028	LIPT	VVA
2083B	4678430.897	522334.370	632.053	LIPT	VVA
2086B	4717385.296	494105.634	650.280	LIPT	VVA
2096B	4682523.798	572007.359	587.538	LIPT	VVA
2098B	4687590.349	587293.294	557.756	LIPT	VVA
2103B	4687382.084	563965.931	591.623	LIPT	VVA
2105B	4670958.402	517150.371	650.205	LIPT	VVA
2112B	4748081.361	484181.175	583.145	LIPT	VVA

4. GPS OBSERVATIONS

Point ID	START	END	PDOP	HZ PRECISION	VERT PRECISION
1001	11/17/2020 9:43	11/17/2020 9:46	1.457	0.0112	0.0287
1002	11/2/2020 13:48	11/2/2020 13:50	1.33	0.0114	0.0221
1002A	11/3/2020 9:20	11/3/2020 9:24	1.799	0.0128	0.0291
1003	11/11/2020 8:48	11/11/2020 8:49	1.426	0.0215	0.0466
1003A	11/12/2020 14:18	11/12/2020 14:19	1.404	0.0136	0.0333
1003E	11/20/2020 9:36	11/20/2020 9:39	1.438	0.0096	0.0304
1004	11/17/2020 15:41	11/17/2020 15:45	1.824	0.0126	0.0409
1004A	11/18/2020 10:16	11/18/2020 10:18	1.475	0.0196	0.0441
1005	10/30/2020 14:31	10/30/2020 14:32	1.602	0.0144	0.0374
1006	11/14/2020 10:29	11/14/2020 10:33	1.383	0.0114	0.028
1006A	11/14/2020 16:03	11/14/2020 16:04	1.78	0.0143	0.0351
1007	11/12/2020 9:40	11/12/2020 9:42	1.636	0.0123	0.0287
1007A	11/13/2020 13:42	11/13/2020 13:42	1.195	0.0144	0.0321
1008A	11/12/2020 14:44	11/12/2020 14:45	1.458	0.0139	0.0335

1008C	11/13/2020 8:00	11/13/2020 8:00	1.549	0.0153	0.0384
1009	10/27/2020 14:52	10/27/2020 14:53	1.334	0.0135	0.0301
1009A	10/28/2020 8:17	10/28/2020 8:17	1.563	0.0148	0.0352
1010	11/13/2020 10:28	11/13/2020 10:30	1.476	0.0139	0.028
1011	10/30/2020 9:23	10/30/2020 9:24	1.422	0.0144	0.0397
1011A	10/30/2020 15:54	10/30/2020 15:55	1.557	0.0145	0.0409
1012	11/4/2020 13:06	11/4/2020 13:10	1.795	0.009	0.0346
1012C	11/6/2020 7:21	11/6/2020 7:22	2.137	0.0162	0.042
1013	11/17/2020 12:37	11/17/2020 12:41	1.77	0.0101	0.0294
1013A	11/18/2020 8:07	11/18/2020 8:08	1.564	0.0211	0.0323
1014	11/14/2020 9:10	11/14/2020 9:13	1.36	0.0116	0.0274
1014A	11/14/2020 15:17	11/14/2020 15:19	2.04	0.0166	0.0384
1015A	11/12/2020 13:57	11/12/2020 13:58	2.007	0.0133	0.0355
1015C	11/13/2020 7:16	11/13/2020 7:16	1.555	0.0162	0.0456
1016	11/18/2020 15:13	11/18/2020 15:16	2.391	0.0113	0.0398
1016A	11/19/2020 10:07	11/19/2020 10:11	2.009	0.0128	0.0294
1017	11/17/2020 11:54	11/17/2020 11:58	1.554	0.012	0.034

1017A	11/18/2020 7:43	11/18/2020 7:46	1.476	0.0108	0.0435
1018	10/27/2020 11:57	10/27/2020 11:58	1.671	0.018	0.0352
1018C	10/31/2020 7:58	10/31/2020 7:58	1.615	0.0159	0.0357
1019	11/14/2020 13:58	11/14/2020 14:01	1.914	0.0096	0.0253
1019A	11/16/2020 8:07	11/16/2020 8:08	1.472	0.0154	0.0273
1019D	11/16/2020 15:44	11/16/2020 15:48	1.835	0.0114	0.0311
1020	11/18/2020 11:33	11/18/2020 11:36	1.657	0.012	0.0307
1020A	11/19/2020 7:20	11/19/2020 7:23	1.775	0.0112	0.035
1021	11/4/2020 12:18	11/4/2020 12:19	1.309	0.0145	0.0297
1021C	11/5/2020 16:03	11/5/2020 16:04	4.293	0.0149	0.0466
1022	10/27/2020 14:18	10/27/2020 14:18	1.471	0.0134	0.0337
1022A	10/28/2020 7:57	10/28/2020 7:58	1.398	0.015	0.0333
1023	10/27/2020 13:56	10/27/2020 13:56	1.398	0.0168	0.0322
1023A	10/28/2020 7:44	10/28/2020 7:45	1.612	0.0155	0.0332
1023E	11/20/2020 6:15	11/20/2020 6:18	1.797	0.0204	0.0465
1024	10/30/2020 11:20	10/30/2020 11:21	1.499	0.0135	0.0296
1025A	11/3/2020 7:54	11/3/2020 8:01	1.637	0.0101	0.0308

1025C	11/4/2020 9:34	11/4/2020 9:35	1.727	0.0172	0.0294
1026	11/18/2020 14:13	11/18/2020 14:16	1.441	0.0115	0.0294
1026A	11/19/2020 9:28	11/19/2020 9:31	1.409	0.012	0.0317
1027	10/28/2020 10:20	10/28/2020 10:20	1.483	0.0157	0.0321
1027A	10/28/2020 15:39	10/28/2020 15:40	1.354	0.0135	0.0282
1028	11/16/2020 13:25	11/16/2020 13:28	1.406	0.0102	0.0265
1028A	11/17/2020 8:13	11/17/2020 8:14	1.497	0.0204	0.0339
1029	11/17/2020 11:19	11/17/2020 11:22	1.348	0.011	0.022
1030	11/2/2020 11:23	11/2/2020 11:24	1.422	0.0152	0.0294
1030C	11/4/2020 11:49	11/4/2020 11:49	1.421	0.0207	0.039
1031	11/5/2020 14:38	11/5/2020 14:41	1.414	0.0103	0.0341
1031A	11/6/2020 8:42	11/6/2020 8:43	1.495	0.0157	0.0352
1032	11/3/2020 14:27	11/3/2020 14:28	1.379	0.0133	0.0284
1032A	11/4/2020 8:04	11/4/2020 8:04	1.424	0.0155	0.039
1033	11/16/2020 12:38	11/16/2020 12:41	1.434	0.0118	0.0353
1033A	11/17/2020 7:47	11/17/2020 7:48	1.447	0.0148	0.0338
1034	11/5/2020 12:55	11/5/2020 12:58	1.765	0.011	0.0332
1035	11/16/2020 9:49	11/16/2020 9:54	1.77	0.013	0.0292

1036	11/17/2020 6:27	11/17/2020 6:31	2.063	0.0149	0.0428
1037	11/6/2020 11:23	11/6/2020 11:25	1.374	0.0134	0.0304
1038	11/16/2020 13:42	11/16/2020 13:46	2.09	0.0276	0.0402
1038A	11/17/2020 8:27	11/17/2020 8:29	2.165	0.0171	0.0331
1039	10/30/2020 10:22	10/30/2020 10:22	1.63	0.0155	0.0304
1039A	10/30/2020 15:42	10/30/2020 15:42	1.278	0.0158	0.0396
1040	10/27/2020 10:57	10/27/2020 10:57	1.567	0.0172	0.0345
1040A	10/27/2020 16:13	10/27/2020 16:14	1.612	0.0138	0.0368
1041A	10/30/2020 16:49	10/30/2020 16:49	1.495	0.015	0.0359
1041C	10/31/2020 8:32	10/31/2020 8:32	1.504	0.0145	0.0286
1042	11/11/2020 14:53	11/11/2020 14:56	1.68	0.0094	0.0254
1042A	11/12/2020 7:18	11/12/2020 7:18	2.195	0.0188	0.046
1043	10/30/2020 12:27	10/30/2020 12:27	1.329	0.0161	0.0452
1044	11/17/2020 13:32	11/17/2020 13:35	1.501	0.0114	0.0237
1045	11/19/2020 11:50	11/19/2020 11:53	1.576	0.0143	0.0386
1046	11/4/2020 14:53	11/4/2020 14:58	1.491	0.0089	0.0233
1046A	11/5/2020 9:36	11/5/2020 9:37	1.76	0.0152	0.0356

1047	11/5/2020 11:18	11/5/2020 11:21	1.427	0.0126	0.0299
1047A	11/6/2020 8:08	11/6/2020 8:09	2.2	0.0152	0.0405
1048	11/17/2020 15:05	11/17/2020 15:08	2.231	0.0114	0.0449
1048A	11/18/2020 9:53	11/18/2020 9:54	1.334	0.0145	0.0387
1049	10/28/2020 10:44	10/28/2020 10:44	1.544	0.0153	0.0277
1049A	10/28/2020 15:51	10/28/2020 15:51	1.162	0.0147	0.0344
1050	10/28/2020 14:00	10/28/2020 14:00	1.21	0.0133	0.0328
1051	11/14/2020 13:33	11/14/2020 13:36	1.309	0.0099	0.0263
1051C	11/16/2020 15:59	11/16/2020 16:00	1.837	0.0146	0.0327
1052	11/6/2020 10:08	11/6/2020 10:09	1.531	0.0165	0.0336
1052A	11/11/2020 10:31	11/11/2020 10:32	1.508	0.0191	0.0343
1053	11/3/2020 13:44	11/3/2020 13:45	1.5	0.0136	0.0349
1054	11/2/2020 10:53	11/2/2020 10:54	1.221	0.0153	0.0341
1054A	11/3/2020 10:34	11/3/2020 10:35	1.47	0.0145	0.0358
1055	11/2/2020 12:44	11/2/2020 12:45	1.504	0.015	0.0363
1055A	11/3/2020 9:47	11/3/2020 9:49	1.865	0.0122	0.0269
1055C	11/4/2020 11:23	11/4/2020 11:24	1.514	0.0157	0.0373

1056	11/14/2020 11:05	11/14/2020 11:08	1.411	0.0116	0.0257
1056A	11/14/2020 16:19	11/14/2020 16:19	1.484	0.0154	0.0325
1057	10/29/2020 7:54	10/29/2020 7:54	1.57	0.016	0.038
1057A	10/29/2020 14:53	10/29/2020 14:53	1.399	0.0135	0.0379
1058	11/13/2020 9:32	11/13/2020 9:35	1.637	0.01	0.0325
1059	11/17/2020 9:05	11/17/2020 9:09	1.523	0.0102	0.03
1060	11/4/2020 6:53	11/4/2020 6:57	1.661	0.0133	0.0312
1061	11/18/2020 14:35	11/18/2020 14:38	1.858	0.0104	0.0285
1061A	11/19/2020 9:46	11/19/2020 9:49	1.498	0.0131	0.0322
1062	11/14/2020 12:06	11/14/2020 12:09	1.518	0.0116	0.0372
1062A	11/14/2020 16:53	11/14/2020 16:54	1.508	0.0303	0.0423
1063	10/27/2020 13:20	10/27/2020 13:21	1.532	0.0163	0.0416
1063A	10/28/2020 7:30	10/28/2020 7:30	1.292	0.0244	0.0406
1064	10/27/2020 10:10	10/27/2020 10:11	1.667	0.015	0.0441
1064A	10/27/2020 15:51	10/27/2020 15:52	1.392	0.0234	0.0391
1065	11/4/2020 9:00	11/4/2020 9:04	1.598	0.0115	0.0251
1066	11/11/2020 14:14	11/11/2020 14:15	2.097	0.0126	0.0339

1066A	11/12/2020 8:16	11/12/2020 8:16	1.505	0.0142	0.0304
1067	11/6/2020 13:13	11/6/2020 13:14	1.695	0.0121	0.0275
1068	10/28/2020 10:04	10/28/2020 10:04	1.394	0.0151	0.0315
1068A	10/28/2020 15:32	10/28/2020 15:32	1.443	0.0142	0.0351
1069	11/6/2020 13:48	11/6/2020 13:52	1.346	0.01	0.0267
1069A	11/11/2020 12:52	11/11/2020 12:52	1.424	0.0176	0.0459
1070	11/3/2020 15:19	11/3/2020 15:19	1.347	0.0136	0.0275
1070A	11/4/2020 7:42	11/4/2020 7:43	1.745	0.0158	0.0338
1071	11/18/2020 16:23	11/18/2020 16:27	1.515	0.0105	0.0227
1071A	11/19/2020 11:05	11/19/2020 11:13	2.781	0.0117	0.0328
1072	11/14/2020 12:55	11/14/2020 12:59	1.466	0.0095	0.0283
1072C	11/16/2020 16:18	11/16/2020 16:19	1.504	0.0267	0.0365
1073	11/18/2020 13:03	11/18/2020 13:06	2.357	0.0115	0.0288
1073A	11/19/2020 8:35	11/19/2020 8:37	1.502	0.0127	0.0293
1074	11/14/2020 9:54	11/14/2020 9:57	1.372	0.0106	0.0279
1074A	11/14/2020 15:40	11/14/2020 15:41	1.585	0.0178	0.0455
1075	11/12/2020 13:01	11/12/2020 13:04	1.352	0.0098	0.0268

1075A	11/13/2020 8:35	11/13/2020 8:36	1.473	0.0201	0.041
1076	11/12/2020 12:41	11/12/2020 12:44	1.533	0.01	0.0323
1076A	11/13/2020 16:43	11/13/2020 16:43	1.579	0.0153	0.0287
1077	10/30/2020 8:07	10/30/2020 8:07	1.29	0.0198	0.0417
1077A	10/30/2020 16:14	10/30/2020 16:14	1.531	0.014	0.0397
1078	11/12/2020 9:09	11/12/2020 9:13	2.197	0.0124	0.027
1078A	11/13/2020 13:14	11/13/2020 13:15	1.363	0.013	0.0338
1079	11/4/2020 14:14	11/4/2020 14:17	1.428	0.0109	0.027
1079A	11/5/2020 10:56	11/5/2020 10:56	1.327	0.0147	0.032
1080	10/30/2020 13:37	10/30/2020 13:38	1.193	0.0154	0.0331
1081	10/29/2020 12:40	10/29/2020 12:41	1.342	0.0145	0.0333
1082	11/11/2020 13:36	11/11/2020 13:39	1.296	0.0113	0.0316
1083	11/12/2020 10:29	11/12/2020 10:32	2.493	0.0115	0.0262
1083A	11/13/2020 14:32	11/13/2020 14:33	1.518	0.016	0.0328
1084	11/6/2020 12:30	11/6/2020 12:32	1.257	0.0255	0.0425
1085	10/29/2020 10:04	10/29/2020 10:04	1.274	0.0142	0.0337
1085C	10/31/2020 12:56	10/31/2020 13:00	1.586	0.0279	0.0378

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1086	11/16/2020 8:36	11/16/2020 8:40	1.646	0.0101	0.0234
1086A	11/16/2020 14:14	11/16/2020 14:37	2.133	0.0207	0.0498
1087	11/18/2020 12:14	11/18/2020 12:17	1.514	0.0109	0.0309
1087A	11/19/2020 7:40	11/19/2020 7:48	1.74	0.0145	0.038
1088	10/29/2020 9:23	10/29/2020 9:23	1.573	0.014	0.0413
1088A	10/29/2020 15:15	10/29/2020 15:16	1.204	0.0132	0.035
1088C	10/31/2020 11:35	10/31/2020 11:36	1.394	0.0143	0.0341
1089	10/28/2020 11:36	10/28/2020 11:37	1.333	0.0144	0.0325
1090	11/19/2020 12:26	11/19/2020 12:32	1.509	0.0151	0.0471
1091	10/28/2020 9:34	10/28/2020 9:34	1.408	0.0206	0.0429
1091A	10/28/2020 14:56	10/28/2020 14:57	1.549	0.0129	0.0276
1092	10/28/2020 13:33	10/28/2020 13:34	1.37	0.0139	0.029
1092A	11/7/2020 9:58	11/7/2020 9:58	1.541	0.0153	0.0322
1093	11/5/2020 12:16	11/5/2020 12:20	1.327	0.0106	0.0273
1094	10/29/2020 13:22	10/29/2020 13:22	1.194	0.0151	0.0332
1095	11/12/2020 7:14	11/12/2020 7:19	1.498	0.01	0.0307
1095A	11/12/2020 15:07	11/12/2020 15:08	1.795	0.0157	0.0391

1096	11/7/2020 8:10	11/7/2020 8:13	2.258	0.0147	0.0414
1096A	11/9/2020 15:53	11/9/2020 15:58	3.613	0.0154	0.0481
1097	11/5/2020 8:34	11/5/2020 8:38	1.541	0.0105	0.0318
1097C	11/19/2020 15:51	11/19/2020 15:52	1.599	0.0163	0.0429
1098	11/18/2020 9:46	11/18/2020 9:49	1.404	0.0134	0.0315
1098A	11/18/2020 14:29	11/18/2020 14:29	1.554	0.0148	0.0316
1099	11/18/2020 11:32	11/18/2020 11:35	1.283	0.0179	0.0339
1099A	11/19/2020 8:07	11/19/2020 8:10	1.577	0.0188	0.0352
1100	10/27/2020 10:53	10/27/2020 10:58	1.565	0.0114	0.0213
1101	11/20/2020 9:32	11/20/2020 9:36	1.441	0.0094	0.0331
1102	11/12/2020 10:38	11/12/2020 10:41	1.469	0.0114	0.0298
1102A	11/16/2020 6:29	11/16/2020 6:30	1.718	0.0227	0.0397
1103	11/5/2020 9:52	11/5/2020 9:57	1.742	0.0145	0.0413
1103A	11/11/2020 13:32	11/11/2020 13:32	1.31	0.0146	0.0321
1104	10/30/2020 12:36	10/30/2020 12:40	1.475	0.0111	0.0365
1104A	10/31/2020 8:40	10/31/2020 8:43	1.762	0.0169	0.0418
1105	10/29/2020 9:31	10/29/2020 9:37	1.767	0.008	0.0305
1105A	11/3/2020 9:08	11/3/2020 9:13	1.414	0.0249	0.0436

1106	10/29/2020 11:30	10/29/2020 11:36	1.506	0.0151	0.0357
1107	11/11/2020 12:01	11/11/2020 12:04	1.256	0.0179	0.0449
1108	11/12/2020 8:32	11/12/2020 8:36	1.562	0.0107	0.0248
1109	11/18/2020 7:55	11/18/2020 7:58	1.541	0.0118	0.0364
1109A	11/19/2020 13:39	11/19/2020 13:40	1.626	0.0176	0.0371
1110	10/29/2020 10:32	10/29/2020 10:39	1.448	0.0166	0.0264
1110A	10/30/2020 14:02	10/30/2020 14:04	1.514	0.0132	0.0404
1111	10/29/2020 15:44	10/29/2020 15:49	1.629	0.009	0.0331
1111A	10/30/2020 7:41	10/30/2020 7:42	1.254	0.0147	0.0274
1112	10/28/2020 9:57	10/28/2020 10:07	1.41	0.0087	0.0453
1113	11/2/2020 7:24	11/2/2020 7:34	1.729	0.0115	0.0349
1114	10/30/2020 12:54	10/30/2020 13:05	1.386	0.0135	0.0282
1114D	11/17/2020 8:18	11/17/2020 8:19	1.604	0.0264	0.0404
1115	11/17/2020 7:35	11/17/2020 7:39	1.745	0.0113	0.0355
1116	10/30/2020 11:33	10/30/2020 11:39	1.649	0.0111	0.0273
1116A	11/18/2020 16:29	11/18/2020 16:30	1.517	0.0163	0.034
1117A	11/16/2020 7:23	11/16/2020 7:24	1.378	0.0146	0.0446

1117C	11/16/2020 7:25	11/16/2020 7:25	1.372	0.0146	0.0438
1118	11/20/2020 10:57	11/20/2020 11:00	1.354	0.0144	0.0343
1119A	11/18/2020 15:58	11/18/2020 15:58	1.537	0.0149	0.0368
1120	10/27/2020 12:41	10/27/2020 12:47	5.193	0.0141	0.0413
1120A	10/28/2020 7:02	10/28/2020 7:12	1.835	0.0138	0.0378
1121	11/6/2020 12:44	11/6/2020 12:47	1.519	0.0111	0.0335
1122	11/4/2020 7:32	11/4/2020 7:35	1.91	0.0272	0.0529
1123	10/30/2020 9:58	10/30/2020 10:02	1.436	0.0152	0.0382
1123A	11/17/2020 6:08	11/17/2020 6:09	1.584	0.0186	0.04
1124	10/28/2020 12:52	10/28/2020 12:55	1.687	0.02	0.0515
1124A	10/29/2020 7:33	10/29/2020 7:34	1.203	0.0155	0.0384
1124C	11/3/2020 12:28	11/3/2020 12:31	1.496	0.0195	0.0361
1125	11/12/2020 13:46	11/12/2020 13:50	1.54	0.0105	0.0264
1125A	11/16/2020 8:26	11/16/2020 8:27	1.565	0.0224	0.0357
1126	11/19/2020 6:12	11/19/2020 6:15	1.921	0.0126	0.036
1126A	11/20/2020 13:55	11/20/2020 13:56	1.243	0.0127	0.0292
1127	11/6/2020 7:28	11/6/2020 7:32	2.068	0.0102	0.0269

1128	11/5/2020 11:40	11/5/2020 11:44	1.479	0.0106	0.0297
1128D	11/16/2020 8:59	11/16/2020 8:59	1.287	0.0151	0.0353
1129	10/27/2020 15:26	10/27/2020 15:29	1.306	0.0097	0.0263
1130	10/28/2020 11:36	10/28/2020 11:48	1.359	0.0307	0.0772
1130D	11/17/2020 15:47	11/17/2020 15:50	1.669	0.0117	0.0306
1131	11/18/2020 7:36	11/18/2020 7:39	1.827	0.0123	0.0413
1131A	11/19/2020 13:59	11/19/2020 14:00	1.385	0.0177	0.0429
1132C	11/5/2020 12:33	11/5/2020 12:35	1.353	0.012	0.0387
1132D	11/16/2020 16:37	11/16/2020 16:40	1.671	0.0166	0.0417
1133	10/29/2020 8:58	10/29/2020 9:04	1.886	0.0093	0.0278
1133A	11/3/2020 8:35	11/3/2020 8:38	1.597	0.0197	0.0414
1133A	11/3/2020 8:35	11/3/2020 8:38	1.597	0.0197	0.0414
1133D	11/17/2020 13:02	11/17/2020 13:03	1.358	0.0177	0.0409
1134A	11/7/2020 11:24	11/7/2020 11:27	1.33	0.0147	0.0358
1134C	11/20/2020 7:04	11/20/2020 7:04	1.404	0.0143	0.0386
1135	10/30/2020 8:26	10/30/2020 8:32	1.723	0.0096	0.0321
1136	11/6/2020 10:31	11/6/2020 10:35	1.844	0.022	0.0433

1137	11/20/2020 12:59	11/20/2020 13:03	1.562	0.0096	0.0214
1138	11/18/2020 13:49	11/18/2020 13:54	1.609	0.0112	0.0306
1138A	11/19/2020 9:16	11/19/2020 9:17	1.347	0.0159	0.0355
1139	11/7/2020 6:54	11/7/2020 6:57	1.818	0.0111	0.0319
1139A	11/11/2020 15:47	11/11/2020 15:49	3.136	0.0134	0.0408
1140	10/27/2020 16:37	10/27/2020 16:43	1.318	0.0108	0.0415
1140A	10/28/2020 8:33	10/28/2020 8:33	1.594	0.0281	0.0349
1141	11/18/2020 8:51	11/18/2020 8:54	1.549	0.0143	0.0321
1141A	11/19/2020 12:50	11/19/2020 12:51	1.537	0.0164	0.0314
1142	11/6/2020 11:15	11/6/2020 11:21	1.469	0.0192	0.0383
1143	11/16/2020 10:43	11/16/2020 10:47	1.489	0.0117	0.0333
1143A	11/16/2020 17:43	11/16/2020 17:44	1.689	0.0173	0.0376
1144A	10/29/2020 8:33	10/29/2020 8:41	1.888	0.0102	0.0355
1144D	11/17/2020 12:44	11/17/2020 12:45	1.648	0.0165	0.0409
1145	11/12/2020 11:05	11/12/2020 11:14	1.362	0.0122	0.034
1145F	11/16/2020 7:06	11/16/2020 7:06	1.358	0.0151	0.0412
1146	10/31/2020 10:06	10/31/2020 10:17	1.483	0.0345	0.0445

1146A	11/2/2020 12:22	11/2/2020 12:25	1.416	0.0127	0.0329
1147	11/18/2020 12:05	11/18/2020 12:08	1.79	0.0116	0.0303
1147A	11/19/2020 8:31	11/19/2020 8:32	1.457	0.0163	0.033
1148	11/19/2020 14:31	11/19/2020 14:36	1.857	0.0098	0.0299
1148H	11/20/2020 8:36	11/20/2020 8:37	1.538	0.0153	0.0308
1149	10/27/2020 14:14	10/27/2020 14:18	1.467	0.01	0.0324
1150	11/13/2020 13:45	11/13/2020 13:48	2.05	0.0126	0.0277
1150A	11/14/2020 7:11	11/14/2020 7:12	2.026	0.015	0.047
1151	11/13/2020 7:55	11/13/2020 7:58	1.316	0.0108	0.0316
1151A	11/14/2020 13:58	11/14/2020 13:58	1.496	0.014	0.0349
1152	11/14/2020 13:18	11/14/2020 13:22	1.279	0.0144	0.0322
1153	11/13/2020 14:51	11/13/2020 14:54	1.749	0.0099	0.0244
1153A	11/14/2020 8:58	11/14/2020 8:58	1.247	0.0186	0.0436
1154	11/13/2020 9:23	11/13/2020 9:27	1.428	0.0096	0.0255
1154A	11/20/2020 15:07	11/20/2020 15:08	1.567	0.0126	0.0497
1155	11/14/2020 9:40	11/14/2020 9:43	1.328	0.0111	0.0358
1156	11/13/2020 12:42	11/13/2020 12:45	1.392	0.0101	0.0243

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1156A	11/14/2020 6:51	11/14/2020 6:51	1.906	0.0146	0.0364
1157	11/13/2020 6:32	11/13/2020 6:35	1.576	0.0103	0.0267
1157A	11/14/2020 11:10	11/14/2020 11:11	1.294	0.0207	0.0384
2001	11/17/2020 9:56	11/17/2020 10:00	1.643	0.0139	0.0264
2002	11/2/2020 14:03	11/2/2020 14:09	1.614	0.0213	0.0439
2002E	11/20/2020 9:09	11/20/2020 9:15	3.072	0.011	0.0463
2003	11/11/2020 8:59	11/11/2020 9:03	1.441	0.0177	0.0341
2003A	11/12/2020 14:14	11/12/2020 14:15	1.347	0.0136	0.0337
2004	11/14/2020 10:19	11/14/2020 10:22	2.281	0.0175	0.037
2004A	11/14/2020 15:58	11/14/2020 15:59	1.916	0.0209	0.0434
2005	11/11/2020 9:46	11/11/2020 9:48	1.533	0.0124	0.0379
2005A	11/12/2020 14:38	11/12/2020 14:39	1.318	0.0137	0.0355
2006	11/13/2020 10:52	11/13/2020 10:55	1.45	0.011	0.0243
2007	10/30/2020 9:16	10/30/2020 9:16	1.608	0.0159	0.0405
2007A	10/30/2020 15:59	10/30/2020 15:59	1.41	0.0142	0.0394
2008	11/4/2020 13:17	11/4/2020 13:20	1.544	0.0101	0.0316
2008C	11/6/2020 7:27	11/6/2020 7:27	2.209	0.0167	0.0426

2009	11/17/2020 12:25	11/17/2020 12:28	2.019	0.0118	0.0336
2009A	11/18/2020 8:01	11/18/2020 8:02	1.557	0.0264	0.039
2010	11/14/2020 9:02	11/14/2020 9:06	1.621	0.0182	0.0462
2010A	11/14/2020 15:12	11/14/2020 15:13	1.926	0.0184	0.0395
2011	11/18/2020 15:23	11/18/2020 15:27	2.996	0.0119	0.0424
2011A	11/19/2020 10:33	11/19/2020 10:36	1.604	0.0188	0.0375
2012	10/27/2020 11:38	10/27/2020 11:44	2.158	0.019	0.0439
2012A	10/27/2020 16:25	10/27/2020 16:35	1.747	0.0112	0.0317
2013	11/18/2020 11:56	11/18/2020 11:59	1.775	0.0118	0.028
2013A	11/19/2020 7:15	11/19/2020 7:16	3.019	0.0163	0.0436
2014	10/27/2020 14:29	10/27/2020 14:29	1.59	0.0144	0.033
2014A	10/28/2020 8:02	10/28/2020 8:03	1.778	0.0167	0.0369
2015	11/2/2020 14:48	11/2/2020 14:50	1.718	0.0123	0.0283
2015A	11/3/2020 8:06	11/3/2020 8:06	1.349	0.0174	0.0418
2016	11/18/2020 13:56	11/18/2020 14:00	1.787	0.019	0.0536
2016A	11/19/2020 9:21	11/19/2020 9:24	1.843	0.0144	0.0357
2017	11/16/2020 13:13	11/16/2020 13:17	1.448	0.0109	0.0281

2017A	11/17/2020 8:07	11/17/2020 8:08	4.206	0.0322	0.0443
2018	11/17/2020 11:24	11/17/2020 11:26	1.408	0.0128	0.0265
2019	11/2/2020 11:11	11/2/2020 11:13	1.611	0.0189	0.0306
2019C	11/3/2020 10:22	11/3/2020 10:26	1.459	0.0107	0.0285
2020	11/5/2020 14:50	11/5/2020 14:53	1.42	0.0111	0.0328
2020A	11/6/2020 8:46	11/6/2020 8:46	1.743	0.0165	0.0342
2021	11/16/2020 12:32	11/16/2020 12:33	1.889	0.0199	0.0465
2021A	11/17/2020 7:41	11/17/2020 7:43	2.437	0.0141	0.0365
2022	11/5/2020 13:14	11/5/2020 13:15	1.421	0.0146	0.0334
2023	11/16/2020 11:28	11/16/2020 11:45	1.74	0.0096	0.0253
2024	11/6/2020 11:36	11/6/2020 11:38	1.737	0.0118	0.0278
2025	11/16/2020 13:52	11/16/2020 13:55	1.996	0.0167	0.0325
2025A	11/17/2020 8:33	11/17/2020 8:34	1.699	0.0163	0.0316
2026	10/30/2020 10:30	10/30/2020 10:30	1.674	0.0157	0.0274
2026A	10/30/2020 15:38	10/30/2020 15:39	1.372	0.0226	0.0421
2027	10/30/2020 7:26	10/30/2020 7:26	1.326	0.0166	0.035
2027E	11/19/2020 14:29	11/19/2020 14:33	1.841	0.0112	0.0465

2028	11/11/2020 15:02	11/11/2020 15:04	1.738	0.0123	0.0325
2028A	11/12/2020 7:20	11/12/2020 7:21	1.494	0.0178	0.0449
2029	10/30/2020 12:35	10/30/2020 12:37	1.435	0.0147	0.0468
2030	11/17/2020 13:43	11/17/2020 13:46	2.679	0.0149	0.0328
2031	11/19/2020 11:45	11/19/2020 11:49	1.361	0.0144	0.0324
2032	11/4/2020 14:41	11/4/2020 14:44	1.615	0.0102	0.0274
2032A	11/5/2020 9:41	11/5/2020 9:42	1.505	0.015	0.0314
2033	11/5/2020 11:36	11/5/2020 11:39	1.48	0.0109	0.0253
2033A	11/6/2020 8:14	11/6/2020 8:14	1.398	0.0144	0.0375
2034	11/17/2020 14:56	11/17/2020 14:59	2.075	0.0132	0.0467
2034A	11/18/2020 9:44	11/18/2020 9:48	1.557	0.0225	0.0461
2035	10/28/2020 10:51	10/28/2020 10:52	1.523	0.0162	0.0331
2035A	10/28/2020 15:52	10/28/2020 15:53	2.012	0.0139	0.0322
2036	10/28/2020 14:15	10/28/2020 14:16	1.361	0.0123	0.0321
2037	11/6/2020 10:20	11/6/2020 10:23	1.36	0.0106	0.028
2037A	11/11/2020 10:22	11/11/2020 10:23	1.41	0.0166	0.0359
2038	11/3/2020 13:29	11/3/2020 13:35	1.978	0.0129	0.0403
2039A	11/3/2020 9:52	11/3/2020 9:53	1.451	0.0182	0.0346

2039C	11/4/2020 11:25	11/4/2020 11:26	1.694	0.0258	0.0436
2040	11/14/2020 11:10	11/14/2020 11:14	1.514	0.0113	0.0251
2040A	11/14/2020 16:22	11/14/2020 16:23	1.661	0.0147	0.031
2041	10/29/2020 8:26	10/29/2020 8:26	1.623	0.0204	0.0386
2041F	11/20/2020 7:06	11/20/2020 7:16	2.024	0.0097	0.0322
2042	11/13/2020 9:46	11/13/2020 9:50	1.559	0.0101	0.025
2043	11/4/2020 7:16	11/4/2020 7:19	1.822	0.0126	0.0258
2044	11/14/2020 12:14	11/14/2020 12:17	1.381	0.0106	0.0314
2044A	11/14/2020 17:02	11/14/2020 17:02	1.57	0.0201	0.0394
2045	10/27/2020 13:29	10/27/2020 13:29	1.591	0.0167	0.0371
2045A	10/28/2020 7:32	10/28/2020 7:32	1.457	0.0234	0.0413
2046A	10/27/2020 16:04	10/27/2020 16:04	2.599	0.0252	0.0467
2046C	10/31/2020 8:15	10/31/2020 8:15	2.363	0.0208	0.0429
2047	11/4/2020 9:10	11/4/2020 9:12	1.591	0.0125	0.0234
2048	11/6/2020 13:33	11/6/2020 13:37	1.898	0.0124	0.0308
2048A	11/11/2020 12:28	11/11/2020 12:29	1.715	0.0176	0.044
2049	11/3/2020 14:56	11/3/2020 14:56	1.334	0.0134	0.0294
2049A	11/4/2020 7:51	11/4/2020 7:51	1.576	0.0173	0.0379

2050	11/18/2020 16:13	11/18/2020 16:16	1.471	0.0117	0.0238
2050A	11/19/2020 10:58	11/19/2020 11:01	1.571	0.015	0.0376
2051	11/14/2020 13:09	11/14/2020 13:13	1.408	0.0137	0.0373
2051A	11/16/2020 7:32	11/16/2020 7:33	1.735	0.0141	0.034
2052	11/18/2020 13:14	11/18/2020 13:17	1.467	0.0128	0.0326
2052A	11/19/2020 8:43	11/19/2020 8:46	1.878	0.0121	0.0282
2053	11/14/2020 9:41	11/14/2020 9:44	1.505	0.0112	0.0303
2053A	11/14/2020 15:35	11/14/2020 15:36	2.549	0.0175	0.0465
2054	11/12/2020 13:15	11/12/2020 13:19	1.203	0.0099	0.0258
2054A	11/13/2020 8:40	11/13/2020 8:41	1.598	0.0181	0.0405
2055	11/12/2020 12:15	11/12/2020 12:19	1.643	0.0098	0.0292
2055A	11/13/2020 16:18	11/13/2020 16:22	1.678	0.0116	0.0277
2056	11/12/2020 8:56	11/12/2020 9:00	1.505	0.0118	0.028
2056A	11/13/2020 13:09	11/13/2020 13:10	1.29	0.0137	0.0364
2057	10/30/2020 13:43	10/30/2020 13:43	1.416	0.0158	0.0402
2058	11/11/2020 13:21	11/11/2020 13:25	1.464	0.0128	0.0465
2059	11/12/2020 11:27	11/12/2020 11:31	1.5	0.0138	0.0319

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2059A	11/13/2020 15:32	11/13/2020 15:33	2.437	0.0155	0.0423
2060	11/6/2020 12:40	11/6/2020 12:43	1.361	0.0099	0.0285
2061	10/29/2020 10:10	10/29/2020 10:11	1.291	0.0136	0.0299
2061C	10/31/2020 13:04	10/31/2020 13:05	1.541	0.0238	0.0386
2062	11/16/2020 8:22	11/16/2020 8:25	1.745	0.0124	0.0254
2062A	11/16/2020 14:42	11/16/2020 14:49	2.16	0.0177	0.0493
2063	10/29/2020 9:08	10/29/2020 9:08	1.587	0.0199	0.0468
2063E	11/20/2020 7:27	11/20/2020 7:30	1.902	0.0181	0.0485
2064	10/28/2020 12:21	10/28/2020 12:21	1.577	0.0172	0.0364
2065	11/19/2020 12:52	11/19/2020 12:55	1.666	0.015	0.0324
2066A	10/28/2020 15:07	10/28/2020 15:15	1.409	0.0126	0.0395
2066C	10/31/2020 10:41	10/31/2020 10:46	2.07	0.0159	0.0461
2067	11/5/2020 13:43	11/5/2020 13:45	1.533	0.0111	0.0278
2068	10/29/2020 13:14	10/29/2020 13:14	2.087	0.0216	0.0411
2069	11/12/2020 8:13	11/12/2020 8:20	1.523	0.01	0.0303
2069A	11/12/2020 14:48	11/12/2020 14:50	1.686	0.0336	0.0456
2070	11/7/2020 8:24	11/7/2020 8:32	1.611	0.0087	0.0298

2071	11/5/2020 8:10	11/5/2020 8:16	3.015	0.01	0.035
2071C	11/19/2020 15:57	11/19/2020 15:58	1.525	0.0157	0.0388
2072	11/18/2020 11:12	11/18/2020 11:15	1.427	0.0291	0.043
2072A	11/19/2020 8:12	11/19/2020 8:15	1.611	0.0148	0.0304
2073	10/27/2020 9:03	10/27/2020 9:09	1.766	0.0105	0.022
2073A	10/27/2020 17:02	10/27/2020 17:15	1.807	0.0074	0.0386
2074A	11/11/2020 13:44	11/11/2020 13:45	1.331	0.0134	0.0315
2074C	11/16/2020 9:39	11/16/2020 9:44	1.46	0.0111	0.0358
2075	11/11/2020 12:20	11/11/2020 12:27	1.578	0.0083	0.0224
2075A	11/20/2020 8:11	11/20/2020 8:12	1.725	0.0161	0.0328
2076	11/12/2020 8:50	11/12/2020 8:53	1.69	0.0127	0.0274
2077	11/18/2020 8:11	11/18/2020 8:15	1.692	0.0114	0.0237
2077A	11/19/2020 13:28	11/19/2020 13:29	1.708	0.0251	0.0417
2078A	10/30/2020 13:55	10/30/2020 13:55	1.405	0.0142	0.0381
2078C	11/17/2020 9:33	11/17/2020 9:34	1.403	0.0169	0.0392
2079	10/29/2020 15:24	10/29/2020 15:29	1.315	0.0291	0.0412
2079A	10/30/2020 6:49	10/30/2020 6:49	2.185	0.0157	0.041

2080	10/28/2020 9:34	10/28/2020 9:39	1.873	0.0126	0.0356
2080A	11/17/2020 13:45	11/17/2020 13:46	1.524	0.0204	0.0386
2081	11/2/2020 7:01	11/2/2020 7:15	1.867	0.0088	0.025
2082C	10/31/2020 8:10	10/31/2020 8:13	1.865	0.0143	0.03
2082D	11/2/2020 10:55	11/2/2020 11:00	1.471	0.0138	0.0297
2083	10/30/2020 11:48	10/30/2020 11:54	1.346	0.0115	0.0274
2084	11/20/2020 10:39	11/20/2020 10:45	1.65	0.0149	0.0307
2085	11/2/2020 8:52	11/2/2020 8:57	1.654	0.0109	0.0378
2085A	11/18/2020 16:10	11/18/2020 16:10	1.329	0.0192	0.042
2086A	10/28/2020 7:20	10/28/2020 7:32	1.455	0.02	0.0408
2086E	11/17/2020 16:42	11/17/2020 16:43	1.95	0.0178	0.0379
2087	11/4/2020 7:05	11/4/2020 7:18	1.957	0.0097	0.0279
2087A	11/16/2020 17:03	11/16/2020 17:04	1.639	0.0155	0.0449
2088	10/30/2020 10:21	10/30/2020 10:26	1.539	0.0107	0.0309
2089	11/12/2020 13:26	11/12/2020 13:31	1.37	0.0095	0.0264
2089E	11/20/2020 7:37	11/20/2020 7:37	1.652	0.0138	0.0346
2090	11/19/2020 6:22	11/19/2020 6:25	1.797	0.0118	0.0359
2090A	11/20/2020 13:42	11/20/2020 13:43	1.3	0.0151	0.0368

2091	10/27/2020 15:08	10/27/2020 15:14	1.477	0.0101	0.0321
2092	10/28/2020 10:31	10/28/2020 10:37	1.541	0.0098	0.0263
2092C	11/17/2020 14:42	11/17/2020 14:43	2.381	0.0121	0.0417
2093	11/18/2020 7:25	11/18/2020 7:28	2.303	0.0106	0.0376
2094A	11/5/2020 12:59	11/5/2020 13:01	1.55	0.0176	0.04
2094C	11/16/2020 16:23	11/16/2020 16:26	1.677	0.0217	0.0452
2095A	10/29/2020 7:46	10/29/2020 7:53	1.325	0.0134	0.0389
2095C	11/3/2020 12:00	11/3/2020 12:09	1.347	0.0282	0.034
2096	11/6/2020 9:29	11/6/2020 9:40	1.748	0.021	0.044
2096A	11/7/2020 11:09	11/7/2020 11:12	1.502	0.0114	0.0319
2096C	11/20/2020 6:49	11/20/2020 6:50	1.57	0.0166	0.0382
2097	10/30/2020 8:40	10/30/2020 8:50	1.695	0.008	0.0336
2098	11/4/2020 12:04	11/4/2020 12:09	1.646	0.0151	0.0276
2098D	11/20/2020 6:22	11/20/2020 6:23	1.79	0.018	0.0404
2099	11/18/2020 13:33	11/18/2020 13:36	1.646	0.0119	0.0312
2099A	11/19/2020 9:10	11/19/2020 9:10	1.537	0.0205	0.0415
2100	11/7/2020 7:13	11/7/2020 7:18	1.81	0.0159	0.0417

2100D	11/16/2020 12:04	11/16/2020 12:07	1.751	0.011	0.0352
2101	10/27/2020 16:09	10/27/2020 16:21	1.63	0.0095	0.03
2101A	10/28/2020 8:55	10/28/2020 8:58	2.532	0.0225	0.04
2102	11/18/2020 8:34	11/18/2020 8:38	1.696	0.0276	0.0298
2102A	11/19/2020 12:57	11/19/2020 12:58	1.788	0.0287	0.043
2103	11/6/2020 11:34	11/6/2020 11:39	1.382	0.0176	0.0399
2104	11/12/2020 12:19	11/12/2020 12:23	1.563	0.0091	0.0219
2104C	11/16/2020 6:56	11/16/2020 6:56	1.383	0.0142	0.0369
2105	10/31/2020 10:45	10/31/2020 10:49	1.656	0.0199	0.0376
2106	11/18/2020 12:35	11/18/2020 12:39	1.472	0.017	0.0404
2107	11/20/2020 9:04	11/20/2020 9:07	1.823	0.0105	0.0342
2108	11/13/2020 13:17	11/13/2020 13:20	1.424	0.0111	0.029
2109	11/13/2020 8:31	11/13/2020 8:34	1.472	0.0118	0.0283
2109A	11/14/2020 14:06	11/14/2020 14:06	1.323	0.0146	0.0379
2110	11/13/2020 14:28	11/13/2020 14:31	1.4	0.014	0.0332
2110A	11/14/2020 8:39	11/14/2020 8:40	1.4	0.0227	0.04
2111	11/13/2020 9:47	11/13/2020 9:51	1.397	0.0107	0.0293

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2111A	11/20/2020 15:38	11/20/2020 15:39	1.515	0.0124	0.0336
2112	11/14/2020 9:56	11/14/2020 9:59	1.461	0.0103	0.0276
2113	11/13/2020 6:48	11/13/2020 6:52	1.781	0.0156	0.0341
2113A	11/14/2020 11:28	11/14/2020 11:29	1.311	0.0228	0.0409

5. POINT COMPARISON

PT NUMBER	UTM ZONE 14 NORTH		NAVD88	CODE	NOTE	DIFFERENCES		
	NORTHING	EASTING	ELEVATION			NORTHING	EASTING	ELEVATION
			GEOID 18					
1001	4526524.207	595701.224	536.471	LIPT	NVA	N/A	N/A	N/A
1002	4588866.090	681488.941	394.102	LIPT	NVA	0.017	0.012	-0.042
1002A	4588866.073	681488.929	394.144	LIPT	NVA			
1003A	4581915.664	690947.301	396.364	LIPT	NVA	0.010	-0.009	0.044
1003E	4581915.654	690947.310	396.320	LIPT	NVA			
1004	4523236.831	562005.186	572.245	LIPT	NVA	-0.063	0.018	-0.002
1004A	4523236.894	562005.168	572.247	LIPT	NVA			
1005	4542839.580	584214.912	553.812	LIPT	NVA	N/A	N/A	N/A
1006	4553663.440	657871.306	485.406	LIPT	NVA	-0.011	-0.008	-0.040
1006A	4553663.451	657871.314	485.446	LIPT	NVA			
1007	4616198.351	712726.065	400.204	LIPT	NVA	0.036	0.021	-0.01
1007A	4616198.315	712726.044	400.214	LIPT	NVA			
1008A	4580468.672	700604.040	389.529	LIPT	NVA	-0.052	-0.010	0.026
1008C	4580468.724	700604.050	389.503	LIPT	NVA			
1009	4617948.008	648615.910	491.714	LIPT	NVA	-0.010	-0.008	-0.025
1009A	4617948.018	648615.918	491.739	LIPT	NVA			
1010	4619410.901	678998.264	415.679	LIPT	NVA	N/A	N/A	N/A
1011	4572210.811	612566.329	473.363	LIPT	NVA	-0.006	0.016	0.028
1011A	4572210.817	612566.313	473.335	LIPT	NVA			
1012	4563935.723	683340.784	424.409	LIPT	NVA	0.021	-0.021	-0.016
1012C	4563935.702	683340.805	424.425	LIPT	NVA			

1013	4505638.362	573251.304	557.430	LIPT	NVA	-0.028	-0.002	0.019
1013A	4505638.390	573251.306	557.411	LIPT	NVA			
1014	4567972.044	643177.680	495.239	LIPT	NVA	-0.020	-0.007	-0.042
1014A	4567972.064	643177.687	495.281	LIPT	NVA			
1015A	4578380.121	683006.625	456.613	LIPT	NVA	-0.031	0.004	0.022
1015C	4578380.152	683006.621	456.591	LIPT	NVA			
1016	4555406.203	561278.019	557.640	LIPT	NVA	-0.002	-0.002	-0.041
1016A	4555406.205	561278.021	557.681	LIPT	NVA			
1017	4508973.869	584697.194	539.723	LIPT	NVA	-0.034	-0.037	-0.002
1017A	4508973.903	584697.231	539.725	LIPT	NVA			
1018	4577817.734	657349.661	433.650	LIPT	NVA	-0.008	0.003	0.005
1018C	4577817.742	657349.658	433.645	LIPT	NVA			
1019A	4545189.891	633933.245	498.401	LIPT	NVA	-0.02	-0.007	-0.037
1019D	4545189.911	633933.252	498.438	LIPT	NVA			
1020	4533145.216	584310.114	551.876	LIPT	NVA	-0.036	-0.008	-0.019
1020A	4533145.252	584310.122	551.895	LIPT	NVA			
1021	4563564.668	667303.578	514.329	LIPT	NVA	-0.025	-0.003	0.021
1021C	4563564.693	667303.581	514.308	LIPT	NVA			
1022	4611396.242	642319.242	477.481	LIPT	NVA	0.032	0.001	-0.005
1022A	4611396.210	642319.241	477.486	LIPT	NVA			
1023	4603277.500	637643.750	502.989	LIPT	NVA	0.008	-0.026	0.027
1023E	4603277.492	637643.776	502.962	LIPT	NVA			
1024	4567148.930	602289.402	487.084	LIPT	NVA	N/A	N/A	N/A
1025A	4592578.532	668436.730	407.623	LIPT	NVA	0.012	-0.015	0.006
1025C	4592578.520	668436.745	407.617	LIPT	NVA			
1026	4541736.160	570992.391	538.866	LIPT	NVA	-0.015	0.004	-0.020
1026A	4541736.175	570992.387	538.886	LIPT	NVA			
1027	4612780.686	627794.878	515.191	LIPT	NVA	0.022	0.004	-0.011
1027A	4612780.664	627794.874	515.202	LIPT	NVA			

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1028	4547812.616	598460.854	529.760	LIPT	NVA	0.010	-0.033	0.035
1028A	4547812.606	598460.887	529.725	LIPT	NVA			
1029	4505855.006	596124.076	524.667	LIPT	NVA	N/A	N/A	N/A
1030	4571483.955	663951.321	464.375	LIPT	NVA	0.011	0.017	-0.002
1030C	4571483.944	663951.304	464.377	LIPT	NVA			
1031	4558102.566	709628.966	342.733	LIPT	NVA	-0.002	0.012	0.029
1031A	4558102.568	709628.954	342.704	LIPT	NVA			
1032	4610320.729	669607.230	437.818	LIPT	NVA	0.020	-0.022	0.019
1032A	4610320.709	669607.252	437.799	LIPT	NVA			
1033	4559223.819	606267.600	531.899	LIPT	NVA	0.033	-0.021	-0.003
1033A	4559223.786	606267.621	531.902	LIPT	NVA			
1034	4544356.196	720459.818	331.800	LIPT	NVA	N/A	N/A	N/A
1035	4560241.738	622154.879	495.915	LIPT	NVA	N/A	N/A	N/A
1036	4569249.733	627036.263	487.815	LIPT	NVA	N/A	N/A	N/A
1037	4563219.297	718206.576	359.909	LIPT	NVA	N/A	N/A	N/A
1038	4548010.229	611301.300	518.724	LIPT	NVA	0.000	-0.033	-0.046
1038A	4548010.229	611301.333	518.770	LIPT	NVA			
1039	4583423.045	609172.060	480.838	LIPT	NVA	-0.021	0.005	0.003
1039A	4583423.066	609172.055	480.835	LIPT	NVA			
1040	4577670.764	646085.114	444.383	LIPT	NVA	-0.010	-0.007	0.028
1040A	4577670.774	646085.121	444.355	LIPT	NVA			
1041A	4584382.248	628352.041	449.957	LIPT	NVA	0.019	0.009	0.045
1041C	4584382.229	628352.032	449.912	LIPT	NVA			
1042	4591875.405	694251.711	379.215	LIPT	NVA	0.018	-0.008	-0.004
1042A	4591875.387	694251.719	379.219	LIPT	NVA			
1043	4568616.580	591627.673	504.686	LIPT	NVA	N/A	N/A	N/A
1044	4508747.816	562157.541	578.748	LIPT	NVA	N/A	N/A	N/A
1045	4568511.117	578794.323	531.090	LIPT	NVA	N/A	N/A	N/A
1046	4555659.909	675518.002	457.727	LIPT	NVA	0.022	-0.006	0.004

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1046A	4555659.887	675518.008	457.723	LIPT	NVA			
1047	4548120.475	698275.767	365.536	LIPT	NVA	-0.019	0.006	0.049
1047A	4548120.494	698275.761	365.487	LIPT	NVA			
1048	4520141.463	571690.251	562.225	LIPT	NVA	0.004	0.010	0.047
1048A	4520141.459	571690.241	562.178	LIPT	NVA			
1049	4603124.534	627971.853	499.441	LIPT	NVA	0.008	0.007	0.006
1049A	4603124.526	627971.846	499.435	LIPT	NVA			
1050	4607728.459	615019.632	487.462	LIPT	NVA	N/A	N/A	N/A
1051	4554827.808	632099.862	482.609	LIPT	NVA	-0.028	0.024	0.030
1051C	4554827.836	632099.838	482.579	LIPT	NVA			
1052	4568014.232	700888.455	372.530	LIPT	NVA	0.016	-0.022	-0.017
1052A	4568014.216	700888.477	372.547	LIPT	NVA			
1053	4619796.517	661455.952	494.408	LIPT	NVA	N/A	N/A	N/A
1054	4571411.368	656641.641	498.998	LIPT	NVA	-0.001	-0.005	-0.046
1054A	4571411.369	656641.646	499.044	LIPT	NVA			
1055A	4581339.802	671708.580	435.989	LIPT	NVA	-0.023	-0.009	0.017
1055C	4581339.825	671708.589	435.972	LIPT	NVA			
1056	4549060.358	669250.600	467.719	LIPT	NVA	-0.043	-0.018	-0.006
1056A	4549060.401	669250.618	467.725	LIPT	NVA			
1057	4614065.184	608435.480	528.267	LIPT	NVA	-0.044	-0.008	0.008
1057A	4614065.228	608435.488	528.259	LIPT	NVA			
1058	4610672.767	684095.929	432.784	LIPT	NVA	N/A	N/A	N/A
1059	4539737.554	597122.841	535.657	LIPT	NVA	N/A	N/A	N/A
1060	4595418.566	649075.962	451.029	LIPT	NVA	N/A	N/A	N/A
1061	4552275.618	571004.239	537.088	LIPT	NVA	-0.015	-0.023	0.033
1061A	4552275.633	571004.262	537.055	LIPT	NVA			
1062	4547085.569	650807.355	460.818	LIPT	NVA	0.010	0.007	0.016
1062A	4547085.559	650807.348	460.802	LIPT	NVA			
1063	4595181.006	637692.237	467.039	LIPT	NVA	0.019	-0.026	-0.049

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1063A	4595180.987	637692.263	467.088	LIPT	NVA			
1064	4577484.082	636641.218	449.751	LIPT	NVA	-0.005	-0.020	0.036
1064A	4577484.087	636641.238	449.715	LIPT	NVA			
1065	4602364.418	674635.282	415.550	LIPT	NVA	N/A	N/A	N/A
1066	4593939.808	707050.696	367.615	LIPT	NVA	0.035	0.028	-0.043
1066A	4593939.773	707050.668	367.658	LIPT	NVA			
1067	4575829.364	709070.282	416.662	LIPT	NVA	N/A	N/A	N/A
1068	4616821.172	627773.261	513.606	LIPT	NVA	-0.015	-0.017	0.006
1068A	4616821.187	627773.278	513.600	LIPT	NVA			
1069	4585429.328	708698.991	386.941	LIPT	NVA	0.009	-0.011	0.032
1069A	4585429.319	708699.002	386.909	LIPT	NVA			
1070	4605320.268	661783.995	457.703	LIPT	NVA	-0.012	-0.008	0.004
1070A	4605320.280	661784.003	457.699	LIPT	NVA			
1071	4560376.666	574084.960	527.691	LIPT	NVA	0.007	0.006	-0.043
1071A	4560376.659	574084.954	527.734	LIPT	NVA			
1072	4555047.357	641734.396	486.797	LIPT	NVA	-0.016	-0.042	0.002
1072C	4555047.373	641734.438	486.795	LIPT	NVA			
1073	4534405.510	561959.069	553.003	LIPT	NVA	-0.010	0.009	-0.027
1073A	4534405.520	561959.060	553.030	LIPT	NVA			
1074	4561626.825	649718.919	485.867	LIPT	NVA	0.017	-0.032	-0.013
1074A	4561626.808	649718.951	485.880	LIPT	NVA			
1075	4606128.834	698673.475	400.253	LIPT	NVA	0.020	-0.032	-0.002
1075A	4606128.814	698673.507	400.255	LIPT	NVA			
1076	4615702.916	693773.312	382.480	LIPT	NVA	0.025	0.003	-0.005
1076A	4615702.891	693773.309	382.485	LIPT	NVA			
1077	4579754.053	620494.025	460.068	LIPT	NVA	0.004	-0.011	-0.024
1077A	4579754.049	620494.036	460.092	LIPT	NVA			
1078	4601643.924	711578.919	364.371	LIPT	NVA	0.025	0.003	0.041
1078A	4601643.899	711578.916	364.330	LIPT	NVA			

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1079	4555904.976	688418.358	404.833	LIPT	NVA	-0.010	0.019	-0.028
1079A	4555904.986	688418.339	404.861	LIPT	NVA			
1080	4554827.450	586995.136	511.871	LIPT	NVA	N/A	N/A	N/A
1081	4607374.971	598984.253	536.811	LIPT	NVA	N/A	N/A	N/A
1082	4587808.973	721638.790	350.955	LIPT	NVA	N/A	N/A	N/A
1083	4622503.598	707769.950	387.128	LIPT	NVA	0.024	0.012	0.036
1083A	4622503.574	707769.938	387.092	LIPT	NVA			
1084	4572793.578	717181.173	365.513	LIPT	NVA	N/A	N/A	N/A
1085	4620288.299	598819.001	560.254	LIPT	NVA	-0.002	-0.026	0.083
1085C	4620288.301	598819.027	560.171	LIPT	NVA			
1086	4548280.823	626610.609	504.666	LIPT	NVA	-0.035	-0.004	0.037
1086A	4548280.858	626610.613	504.629	LIPT	NVA			
1087	4532196.783	574712.844	565.978	LIPT	NVA	-0.062	-0.005	0.043
1087A	4532196.845	574712.849	565.935	LIPT	NVA			
1088A	4622108.664	613173.863	542.363	LIPT	NVA	0.007	-0.020	0.028
1088C	4622108.657	613173.883	542.335	LIPT	NVA			
1089	4592500.642	620138.133	460.337	LIPT	NVA	N/A	N/A	N/A
1090	4566669.996	562689.742	529.382	LIPT	NVA	N/A	N/A	N/A
1091	4620985.413	637234.084	502.316	LIPT	NVA	0.037	-0.004	0.003
1091A	4620985.376	637234.088	502.313	LIPT	NVA			
1092	4602842.305	611904.755	520.512	LIPT	NVA	0.031	-0.005	0.044
1092A	4602842.274	611904.760	520.468	LIPT	NVA			
1093	4548386.414	709708.356	378.702	LIPT	NVA	N/A	N/A	N/A
1094	4599008.032	599199.049	517.224	LIPT	NVA	N/A	N/A	N/A
1095	4681940.398	550393.040	572.498	LIPT	NVA	-0.008	-0.006	0.001
1095A	4681940.406	550393.046	572.497	LIPT	NVA			
1096	4703275.601	547384.668	584.594	LIPT	NVA	0.019	0.023	0.000
1096A	4703275.582	547384.645	584.594	LIPT	NVA			
1097	4649162.811	594988.889	546.197	LIPT	NVA	0.016	-0.012	-0.027

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1097C	4649162.795	594988.901	546.224	LIPT	NVA			
1098	4614859.483	559088.231	583.173	LIPT	NVA	-0.016	0.006	-0.031
1098A	4614859.499	559088.225	583.204	LIPT	NVA			
1099	4598792.072	559112.942	610.397	LIPT	NVA	0.003	-0.009	-0.005
1099A	4598792.069	559112.951	610.402	LIPT	NVA			
1100	4717394.401	499139.494	643.525	LIPT	NVA	N/A	N/A	N/A
1101	4640741.330	572736.067	622.243	LIPT	NVA	N/A	N/A	N/A
1102	4663102.474	557824.346	585.289	LIPT	NVA	-0.007	-0.028	-0.040
1102A	4663102.481	557824.374	585.329	LIPT	NVA			
1103	4663594.811	594737.428	562.745	LIPT	NVA	N/A	N/A	N/A
1104	4672580.641	517511.353	644.935	LIPT	NVA	0.014	-0.008	0.044
1104A	4672580.627	517511.361	644.891	LIPT	NVA			
1105	4668591.690	498225.375	705.567	LIPT	NVA	-0.034	-0.011	0.029
1105A	4668591.724	498225.386	705.538	LIPT	NVA			
1106	4661199.193	504697.849	695.207	LIPT	NVA	N/A	N/A	N/A
1107	4655925.816	578840.183	597.620	LIPT	NVA	N/A	N/A	N/A
1108	4675633.014	556826.616	560.422	LIPT	NVA	N/A	N/A	N/A
1109	4630740.996	560049.220	625.489	LIPT	NVA	N/A	N/A	N/A
1110	4661763.277	494268.614	709.689	LIPT	NVA	0.000	0.004	-0.007
1110A	4661763.277	494268.610	709.696	LIPT	NVA			
1111	4702982.561	516879.427	624.786	LIPT	NVA	0.017	-0.008	0.044
1111A	4702982.544	516879.435	624.742	LIPT	NVA			
1112	4691801.738	491783.995	680.906	LIPT	NVA	N/A	N/A	N/A
1113	4662984.994	543319.684	612.779	LIPT	NVA	N/A	N/A	N/A
1114	4672495.219	511083.542	658.151	LIPT	NVA	0.000	-0.006	-0.005
1114D	4672495.219	511083.548	658.156	LIPT	NVA			
1115	4662894.995	528926.128	628.716	LIPT	NVA	N/A	N/A	N/A
1116	4680584.439	523576.543	632.215	LIPT	NVA	N/A	N/A	N/A
1117A	4660021.147	569086.271	594.461	LIPT	NVA	0.006	0.000	-0.011

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1117C	4660021.141	569086.271	594.472	LIPT	NVA			
1118	4631120.000	572641.511	570.314	LIPT	NVA	N/A	N/A	N/A
1119A	4674183.708	528936.391	624.417	LIPT	NVA	N/A	N/A	N/A
1120	4717181.681	488309.586	664.313	LIPT	NVA	0.027	-0.008	-0.036
1120A	4717181.654	488309.594	664.349	LIPT	NVA			
1121	4698504.316	555519.228	578.995	LIPT	NVA	N/A	N/A	N/A
1122	4698101.536	591035.885	505.642	LIPT	NVA	N/A	N/A	N/A
1123	4691900.779	528691.784	610.976	LIPT	NVA	0.011	0.011	0.034
1123A	4691900.768	528691.773	610.942	LIPT	NVA			
1124A	4695667.253	502965.138	658.184	LIPT	NVA	-0.015	0.012	0.010
1124C	4695667.268	502965.126	658.174	LIPT	NVA			
1125	4669313.843	569737.523	541.640	LIPT	NVA	-0.004	-0.006	0.022
1125A	4669313.847	569737.529	541.618	LIPT	NVA			
1126	4704683.162	528113.205	613.689	LIPT	NVA	0.014	-0.010	0.006
1126A	4704683.148	528113.215	613.683	LIPT	NVA			
1127	4682529.379	572042.838	588.894	LIPT	NVA	N/A	N/A	N/A
1128	4673177.720	589772.841	545.474	LIPT	NVA	-0.007	0.017	-0.022
1128D	4673177.727	589772.824	545.496	LIPT	NVA			
1129	4699674.543	483077.504	689.861	LIPT	NVA	N/A	N/A	N/A
1130	4681223.269	484226.314	717.015	LIPT	NVA	-0.011	0.009	0.034
1130D	4681223.280	484226.305	716.981	LIPT	NVA			
1131	4643823.339	559889.115	622.102	LIPT	NVA	0.005	0.009	-0.039
1131A	4643823.334	559889.106	622.141	LIPT	NVA			
1132C	4689309.276	591191.446	543.956	LIPT	NVA	-0.020	-0.001	-0.014
1132D	4689309.296	591191.447	543.970	LIPT	NVA			
1133A	4677487.797	503017.570	675.103	LIPT	NVA	0.006	-0.016	-0.012
1133D	4677487.791	503017.586	675.115	LIPT	NVA			
1134A	4677819.228	580201.438	566.568	LIPT	NVA	0.002	0.023	-0.023
1134C	4677819.226	580201.415	566.591	LIPT	NVA			

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1135	4690297.884	512599.657	650.193	LIPT	NVA	N/A	N/A	N/A
1136	4692339.716	579919.699	555.130	LIPT	NVA	N/A	N/A	N/A
1137	4683921.766	538380.180	605.486	LIPT	NVA	N/A	N/A	N/A
1138	4606895.898	571024.575	581.869	LIPT	NVA	0.020	-0.001	0.028
1138A	4606895.878	571024.576	581.841	LIPT	NVA			
1139	4693637.687	548154.051	593.248	LIPT	NVA	0.032	0.009	-0.044
1139A	4693637.655	548154.042	593.292	LIPT	NVA			
1140	4706277.568	492726.155	657.316	LIPT	NVA	0.046	0.011	0.035
1140A	4706277.522	492726.144	657.281	LIPT	NVA			
1141	4621389.612	567064.653	609.311	LIPT	NVA	0.013	0.003	-0.023
1141A	4621389.599	567064.650	609.334	LIPT	NVA			
1142	4693732.905	568640.685	549.972	LIPT	NVA	N/A	N/A	N/A
1143	4687373.091	563993.052	591.208	LIPT	NVA	0.008	0.015	0.009
1143A	4687373.083	563993.037	591.199	LIPT	NVA			
1144A	4685486.502	502996.508	668.978	LIPT	NVA	-0.007	0.007	-0.008
1144D	4685486.509	502996.501	668.986	LIPT	NVA			
1145	4659889.021	558520.326	608.987	LIPT	NVA	0.014	-0.024	-0.045
1145F	4659889.007	558520.350	609.032	LIPT	NVA			
1146	4662859.828	516089.291	668.745	LIPT	NVA	-0.027	0.005	0.038
1146A	4662859.855	516089.286	668.707	LIPT	NVA			
1147	4594038.790	570298.629	581.048	LIPT	NVA	-0.011	0.004	0.013
1147A	4594038.801	570298.625	581.035	LIPT	NVA			
1148	4648845.672	567860.420	595.628	LIPT	NVA	0.002	0.009	-0.038
1148H	4648845.670	567860.411	595.666	LIPT	NVA			
1149	4709324.483	487883.729	662.982	LIPT	NVA	N/A	N/A	N/A
1150	4759451.802	506555.561	568.951	LIPT	NVA	0.006	0.019	0.010
1150A	4759451.796	506555.542	568.941	LIPT	NVA			
1151	4742084.998	548368.738	424.026	LIPT	NVA	-0.015	0.005	-0.015
1151A	4742085.013	548368.733	424.041	LIPT	NVA			

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1152	4754728.098	536710.377	535.249	LIPT	NVA	N/A	N/A	N/A
1153	4756274.254	480850.786	648.951	LIPT	NVA	0.000	0.000	0.007
1153A	4756274.254	480850.786	648.944	LIPT	NVA			
1154	4757563.355	524232.033	593.003	LIPT	NVA	0.001	0.013	-0.027
1154A	4757563.354	524232.020	593.030	LIPT	NVA			
1155	4746327.627	483712.768	589.379	LIPT	NVA	N/A	N/A	N/A
1156	4751401.887	511386.371	545.191	LIPT	NVA	0.013	0.006	-0.030
1156A	4751401.874	511386.365	545.221	LIPT	NVA			
1157	4747420.607	524368.492	505.272	LIPT	NVA	0.013	-0.004	0.028
1157A	4747420.594	524368.496	505.244	LIPT	NVA			
2001	4526428.995	595646.999	536.195	LIPT	VVA	N/A	N/A	N/A
2002	4588409.885	681695.253	444.147	LIPT	VVA	0.004	-0.009	0.012
2002E	4588409.881	681695.262	444.135	LIPT	VVA			
2003	4581888.642	690957.368	396.249	LIPT	VVA	-0.012	-0.008	-0.022
2003A	4581888.654	690957.376	396.271	LIPT	VVA			
2004	4553704.284	659437.843	493.932	LIPT	VVA	0.035	-0.020	0.038
2004A	4553704.249	659437.863	493.894	LIPT	VVA			
2005	4580479.237	699859.018	392.145	LIPT	VVA	-0.021	-0.021	-0.023
2005A	4580479.258	699859.039	392.168	LIPT	VVA			
2006	4619217.047	677423.620	440.326	LIPT	VVA	N/A	N/A	N/A
2007	4573138.172	612470.735	470.815	LIPT	VVA	0.012	-0.035	0.029
2007A	4573138.160	612470.770	470.786	LIPT	VVA			
2008	4563907.766	683802.063	410.458	LIPT	VVA	-0.012	-0.011	0.002
2008C	4563907.778	683802.074	410.456	LIPT	VVA			
2009	4505625.533	573485.830	555.514	LIPT	VVA	0.030	0.009	0.027
2009A	4505625.503	573485.821	555.487	LIPT	VVA			
2010	4568369.202	643161.500	495.593	LIPT	VVA	-0.041	-0.010	0.004
2010A	4568369.243	643161.510	495.589	LIPT	VVA			
2011	4555418.282	560871.637	559.961	LIPT	VVA	0.016	-0.026	-0.016

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2011A	4555418.266	560871.663	559.977	LIPT	VVA			
2012	4577713.384	656594.829	434.334	LIPT	VVA	-0.002	0.059	-0.023
2012A	4577713.386	656594.770	434.357	LIPT	VVA			
2013	4533141.233	583581.235	554.726	LIPT	VVA	-0.022	-0.005	-0.032
2013A	4533141.255	583581.240	554.758	LIPT	VVA			
2014	4611400.021	643533.519	490.051	LIPT	VVA	-0.006	0.008	-0.043
2014A	4611400.027	643533.511	490.094	LIPT	VVA			
2015	4592633.844	668854.946	405.504	LIPT	VVA	-0.029	-0.002	-0.016
2015A	4592633.873	668854.948	405.520	LIPT	VVA			
2016	4541527.508	570825.217	538.087	LIPT	VVA	-0.023	-0.021	0.022
2016A	4541527.531	570825.238	538.065	LIPT	VVA			
2017	4548086.754	600078.799	528.819	LIPT	VVA	-0.032	-0.017	-0.021
2017A	4548086.786	600078.816	528.840	LIPT	VVA			
2018	4505842.524	596108.187	523.490	LIPT	VVA			
2019	4571452.700	662955.975	469.381	LIPT	VVA	-0.014	0.019	-0.014
2019C	4571452.714	662955.956	469.395	LIPT	VVA			
2020	4558454.309	709633.126	343.445	LIPT	VVA	-0.048	0.005	-0.035
2020A	4558454.357	709633.121	343.480	LIPT	VVA			
2021	4559235.988	606634.594	530.622	LIPT	VVA	0.046	0.001	0.001
2021A	4559235.942	606634.593	530.621	LIPT	VVA			
2022	4544101.923	720141.530	333.391	LIPT	VVA	N/A	N/A	N/A
2023	4560192.242	622174.647	496.278	LIPT	VVA	N/A	N/A	N/A
2024	4563160.680	718055.197	361.671	LIPT	VVA	N/A	N/A	N/A
2025	4548032.489	611493.673	516.815	LIPT	VVA	-0.012	-0.020	-0.044
2025A	4548032.501	611493.693	516.859	LIPT	VVA			
2026	4583603.892	609162.734	479.782	LIPT	VVA	0.017	-0.050	-0.017
2026A	4583603.875	609162.784	479.799	LIPT	VVA			
2027	4583605.358	626800.641	457.233	LIPT	VVA	-0.024	0.013	-0.042
2027E	4583605.382	626800.628	457.275	LIPT	VVA			

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2028	4591897.893	694257.726	378.667	LIPT	VVA	0.008	-0.038	0.010
2028A	4591897.885	694257.764	378.657	LIPT	VVA			
2029	4568597.979	591475.904	504.581	LIPT	VVA	N/A	N/A	N/A
2030	4508765.573	562241.313	576.806	LIPT	VVA	N/A	N/A	N/A
2031	4568498.041	578826.202	531.085	LIPT	VVA	N/A	N/A	N/A
2032	4555674.081	675761.576	449.847	LIPT	VVA	-0.025	0.02	-0.041
2032A	4555674.106	675761.556	449.888	LIPT	VVA			
2033	4547767.329	698513.282	373.205	LIPT	VVA	-0.007	0.025	0.042
2033A	4547767.336	698513.257	373.163	LIPT	VVA			
2034	4519476.786	571758.824	559.187	LIPT	VVA	-0.016	0.008	0.015
2034A	4519476.802	571758.816	559.172	LIPT	VVA			
2035	4603080.827	627973.233	498.907	LIPT	VVA	-0.029	-0.018	0.011
2035A	4603080.856	627973.251	498.896	LIPT	VVA			
2036	4607749.166	616648.659	511.651	LIPT	VVA	N/A	N/A	N/A
2037	4568490.665	700846.395	372.004	LIPT	VVA	-0.045	-0.002	-0.015
2037A	4568490.710	700846.397	372.019	LIPT	VVA			
2038	4619716.749	660510.527	458.984	LIPT	VVA			
2039A	4581313.813	671683.241	433.711	LIPT	VVA	0.044	-0.041	0.043
2039C	4581313.769	671683.282	433.668	LIPT	VVA			
2040	4549075.581	669158.663	467.385	LIPT	VVA	-0.013	-0.032	-0.029
2040A	4549075.594	669158.695	467.414	LIPT	VVA			
2041	4614058.699	609835.160	499.191	LIPT	VVA	-0.043	-0.001	-0.048
2041F	4614058.742	609835.161	499.239	LIPT	VVA			
2042	4611381.317	684089.670	426.148	LIPT	VVA	N/A	N/A	N/A
2043	4597772.184	649029.844	436.912	LIPT	VVA	N/A	N/A	N/A
2044	4547096.698	651116.428	458.542	LIPT	VVA	0.020	-0.004	0.009
2044A	4547096.678	651116.432	458.533	LIPT	VVA			
2045	4595167.882	637706.117	466.594	LIPT	VVA	-0.018	-0.028	0.024
2045A	4595167.900	637706.145	466.570	LIPT	VVA			

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2046A	4577433.342	637631.964	446.649	LIPT	VVA	-0.009	-0.012	0.042
2046C	4577433.351	637631.976	446.607	LIPT	VVA			
2047	4601510.898	674675.507	413.749	LIPT	VVA			
2048	4585550.680	708809.585	378.814	LIPT	VVA	-0.025	0.005	0.030
2048A	4585550.705	708809.580	378.784	LIPT	VVA			
2049	4606773.313	661723.821	464.944	LIPT	VVA	-0.001	0.000	-0.028
2049A	4606773.314	661723.821	464.972	LIPT	VVA			
2050	4560400.494	572982.734	526.743	LIPT	VVA	0.013	-0.010	0.003
2050A	4560400.481	572982.744	526.740	LIPT	VVA			
2051	4554995.418	640511.387	490.480	LIPT	VVA	0.002	-0.025	-0.039
2051A	4554995.416	640511.412	490.519	LIPT	VVA			
2052	4535404.278	561963.747	551.569	LIPT	VVA	0.002	-0.007	0.044
2052A	4535404.276	561963.754	551.525	LIPT	VVA			
2053	4561623.427	648089.717	482.500	LIPT	VVA	-0.009	-0.031	-0.010
2053A	4561623.436	648089.748	482.510	LIPT	VVA			
2054	4604996.574	698739.561	382.934	LIPT	VVA	-0.014	0.018	-0.033
2054A	4604996.588	698739.543	382.967	LIPT	VVA			
2055	4614857.966	694381.907	380.829	LIPT	VVA	-0.012	-0.020	-0.043
2055A	4614857.978	694381.927	380.872	LIPT	VVA			
2056	4601646.541	711079.172	364.283	LIPT	VVA	0.029	-0.007	0.016
2056A	4601646.512	711079.179	364.267	LIPT	VVA			
2057	4554847.990	587015.830	511.405	LIPT	VVA	N/A	N/A	N/A
2058	4587257.330	721635.783	349.820	LIPT	VVA	N/A	N/A	N/A
2059	4623364.320	707133.202	375.191	LIPT	VVA	0.027	-0.008	0.012
2059A	4623364.293	707133.210	375.179	LIPT	VVA			
2060	4572802.050	717743.227	361.511	LIPT	VVA	N/A	N/A	N/A
2061	4620298.794	598912.244	565.696	LIPT	VVA	-0.001	0.012	-0.003
2061C	4620298.795	598912.232	565.699	LIPT	VVA			
2062	4548958.468	627366.221	504.125	LIPT	VVA	-0.010	0.016	0.012

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2062A	4548958.478	627366.205	504.113	LIPT	VVA			
2063	4616957.326	608458.139	505.029	LIPT	VVA	-0.034	0.012	0.003
2063E	4616957.360	608458.127	505.026	LIPT	VVA			
2064	4592306.748	616967.054	464.423	LIPT	VVA	N/A	N/A	N/A
2065	4563357.044	562675.780	541.818	LIPT	VVA	N/A	N/A	N/A
2066A	4618840.673	636450.106	491.420	LIPT	VVA	-0.024	-0.033	0.002
2066C	4618840.697	636450.139	491.418	LIPT	VVA			
2067	4552566.643	715894.887	341.708	LIPT	VVA	N/A	N/A	N/A
2068	4599339.869	598990.786	511.928	LIPT	VVA	N/A	N/A	N/A
2069	4678574.699	553846.432	565.898	LIPT	VVA	-0.015	-0.018	-0.015
2069A	4678574.714	553846.450	565.913	LIPT	VVA			
2070	4703279.126	546659.042	585.750	LIPT	VVA	N/A	N/A	N/A
2071	4649217.412	595765.694	533.600	LIPT	VVA	0.016	0.008	0.026
2071C	4649217.396	595765.686	533.574	LIPT	VVA			
2072	4598802.593	559162.749	610.756	LIPT	VVA	-0.015	0.010	-0.030
2072A	4598802.608	559162.739	610.786	LIPT	VVA			
2073	4709849.438	501597.393	648.510	LIPT	VVA	-0.033	0.001	0.002
2073A	4709849.471	501597.392	648.508	LIPT	VVA			
2074A	4666781.402	594706.824	533.416	LIPT	VVA	-0.003	-0.014	-0.014
2074C	4666781.405	594706.838	533.430	LIPT	VVA			
2075	4655849.686	578807.260	598.709	LIPT	VVA	0.000	0.007	-0.035
2075A	4655849.686	578807.253	598.744	LIPT	VVA			
2076	4674364.545	558189.529	558.334	LIPT	VVA	N/A	N/A	N/A
2077	4628142.266	560023.403	634.663	LIPT	VVA	0.010	-0.004	-0.040
2077A	4628142.256	560023.407	634.703	LIPT	VVA			
2078A	4660210.855	494248.746	712.362	LIPT	VVA	0.011	0.014	0.005
2078C	4660210.844	494248.732	712.357	LIPT	VVA			
2079	4702603.262	516007.223	617.689	LIPT	VVA	0.001	0.026	-0.038
2079A	4702603.261	516007.197	617.727	LIPT	VVA			

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2080	4691746.453	492135.095	680.905	LIPT	VVA	0.011	0.019	0.009
2080A	4691746.442	492135.076	680.896	LIPT	VVA			
2081	4661357.428	543323.155	610.456	LIPT	VVA	N/A	N/A	N/A
2082C	4672555.341	509588.838	657.900	LIPT	VVA	0.001	-0.007	0.032
2082D	4672555.340	509588.845	657.868	LIPT	VVA			
2083	4680565.553	522351.293	632.499	LIPT	VVA	N/A	N/A	N/A
2084	4631109.156	571787.345	562.023	LIPT	VVA	N/A	N/A	N/A
2085	4674203.042	530677.155	619.965	LIPT	VVA	0.007	-0.006	0.009
2085A	4674203.035	530677.161	619.956	LIPT	VVA			
2086A	4717005.867	488495.977	661.933	LIPT	VVA	-0.023	0.003	0.012
2086E	4717005.890	488495.974	661.921	LIPT	VVA			
2087	4697296.755	591018.761	500.308	LIPT	VVA	N/A	N/A	N/A
2088	4691946.184	531154.053	609.113	LIPT	VVA	N/A	N/A	N/A
2089	4669375.414	566525.049	547.565	LIPT	VVA	-0.023	0.032	-0.043
2089E	4669375.437	566525.017	547.608	LIPT	VVA			
2090	4702196.298	528679.027	613.955	LIPT	VVA	0.010	0.000	0.004
2090A	4702196.288	528679.027	613.951	LIPT	VVA			
2091	4702773.072	483087.744	684.367	LIPT	VVA	N/A	N/A	N/A
2092	4684517.713	490212.486	697.346	LIPT	VVA	-0.006	-0.003	0.031
2092C	4684517.719	490212.489	697.315	LIPT	VVA			
2093	4643831.865	559282.789	611.891	LIPT	VVA	N/A	N/A	N/A
2094A	4687804.647	595739.757	541.756	LIPT	VVA	0.002	0.019	-0.015
2094C	4687804.645	595739.738	541.771	LIPT	VVA			
2095A	4690888.397	502973.038	665.945	LIPT	VVA	0.019	0.007	0.026
2095C	4690888.378	502973.031	665.919	LIPT	VVA			
2096	4679521.619	580154.351	583.169	LIPT	VVA	0.021	0.019	-0.002
2096C	4679521.598	580154.332	583.171	LIPT	VVA			
2097	4689827.269	512574.224	650.309	LIPT	VVA	N/A	N/A	N/A
2098	4687685.979	584908.308	569.488	LIPT	VVA	-0.024	-0.019	0.043

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2098D	4687686.003	584908.327	569.445	LIPT	VVA			
2099	4606485.497	571032.828	577.422	LIPT	VVA	0.000	-0.005	0.002
2099A	4606485.497	571032.833	577.420	LIPT	VVA			
2100	4694464.484	548214.997	594.268	LIPT	VVA	0.012	0.004	0.026
2100D	4694464.472	548214.993	594.242	LIPT	VVA			
2101	4702112.300	492742.156	663.690	LIPT	VVA	0.035	-0.003	-0.014
2101A	4702112.265	492742.159	663.704	LIPT	VVA			
2102	4621376.286	565333.886	628.363	LIPT	VVA	-0.003	-0.006	-0.045
2102A	4621376.289	565333.892	628.408	LIPT	VVA			
2103	4693696.729	566749.470	544.069	LIPT	VVA	N/A	N/A	N/A
2104	4659908.622	561354.500	594.392	LIPT	VVA	0.006	-0.028	-0.019
2104C	4659908.616	561354.528	594.411	LIPT	VVA			
2105	4663445.915	514328.618	671.537	LIPT	VVA	N/A	N/A	N/A
2106	4596695.698	570298.196	557.958	LIPT	VVA	N/A	N/A	N/A
2107	4648719.506	568324.944	596.788	LIPT	VVA	N/A	N/A	N/A
2108	4757828.978	506595.578	557.478	LIPT	VVA	N/A	N/A	N/A
2109	4742138.923	547220.354	425.220	LIPT	VVA	-0.007	-0.021	-0.010
2109A	4742138.930	547220.375	425.230	LIPT	VVA			
2110	4756220.096	483861.549	618.967	LIPT	VVA	0.034	0.018	-0.001
2110A	4756220.062	483861.531	618.968	LIPT	VVA			
2111	4759476.362	524212.814	563.817	LIPT	VVA	-0.001	0.008	-0.010
2111A	4759476.363	524212.806	563.827	LIPT	VVA			
2112	4746325.945	484852.904	585.680	LIPT	VVA	N/A	N/A	N/A
2113	4746596.762	523418.768	520.150	LIPT	VVA	-0.008	-0.008	-0.016
2113A	4746596.770	523418.776	520.166	LIPT	VVA			

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