



REPORT OF SURVEY - REVISED

FEMA Region 6 – Arkansas QL2 LiDAR

2 March 2015

Prepared for

United States Geological Survey
1400 Independence Road
Rolla, MO 65401
573.308.3756

Prepared by

Fugro EarthData, Inc.
7320 Executive Way
Frederick, MD 21704
301.948.8550
www.fugroearthdata.com

*The attached document contains proprietary and confidential information of Fugro EarthData.
The information may not, directly or indirectly, be displayed, provided, or transferred to any person or entity and may not be
used, copied, or disclosed without the express written permission of Fugro EarthData.*

REPORT OF SURVEY USGS FEMA LiDAR LOWER BLACK WATERSHED, JEFFERSON AND WASHINGTON COUNTIES ARKANSAS

INTRODUCTION

Terrasurv Inc. was tasked by Fugro-Earthdata International to perform a control survey in support of LiDAR data collection of the three separate areas in Arkansas: Lower Black Watershed (Arkansas and Missouri), and Jefferson and Washington Counties. The Global Positioning System (GPS) was used in a static differential mode to establish the control networks. The map in figure 1 shows the location of the surveys. Each site was processed independently of the others.

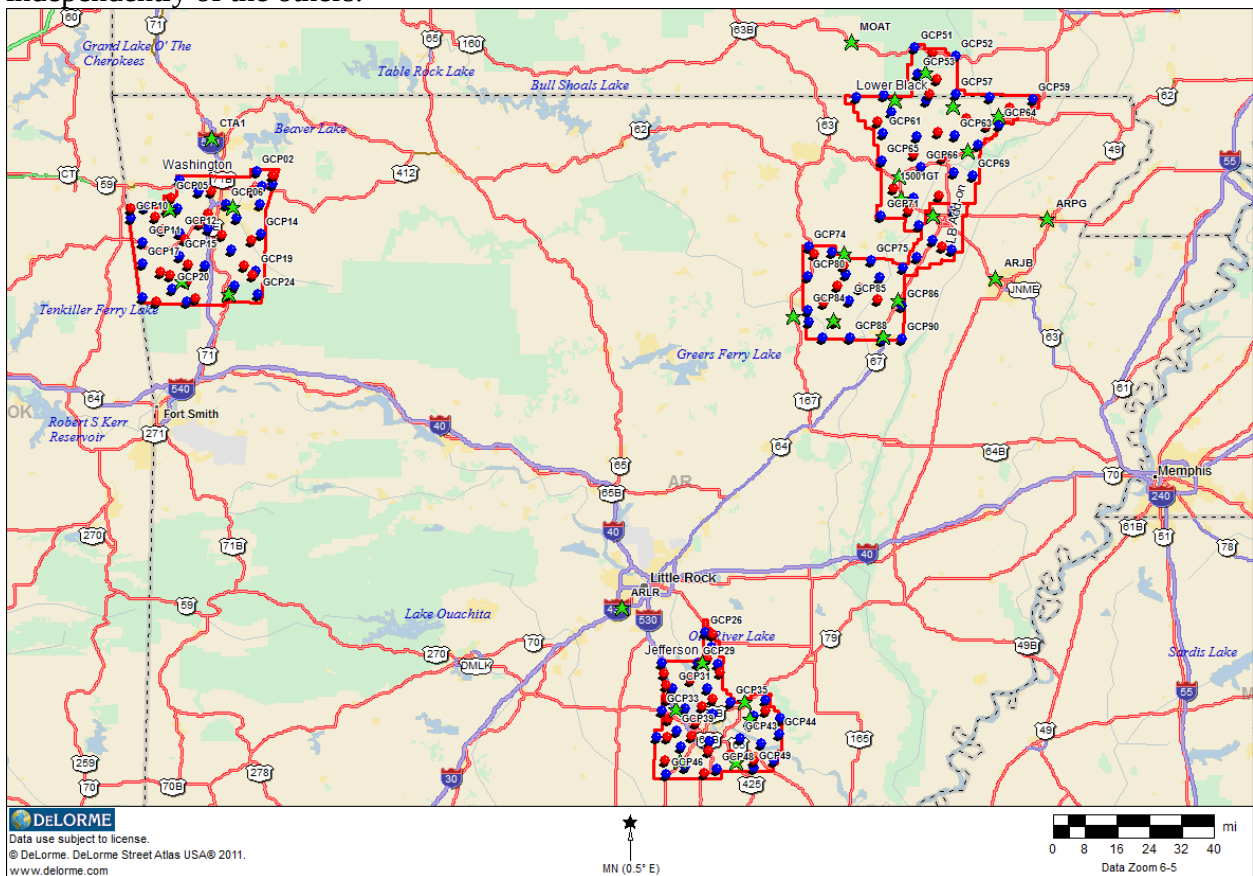


Figure 1

On the map above, the 93 LiDAR ground control points (GCP01-GCP90) are shown by blue dots, the 63 LiDAR check points are shown as red dots and the location of the CORS and the temporary base stations are shown as green stars. Each of these areas is shown in more detail in figures 2 through 4 below.

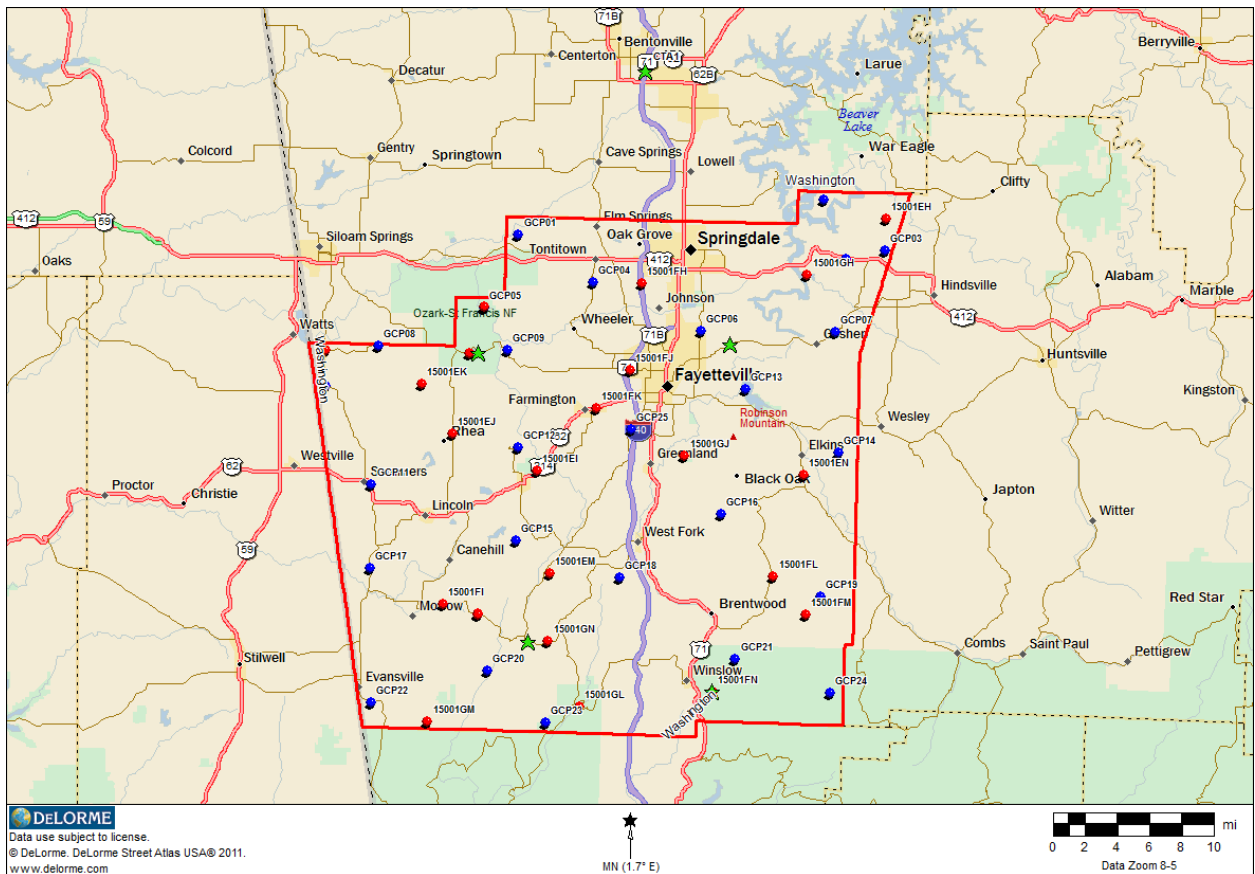


Figure 2 Washington County

On the map above, the twenty-six LiDAR points (GCP01-GCP25) for Washington County are shown by blue dots, the 21 LiDAR check points are shown as red dots and the location of the CORS and the temporary base stations are shown as green stars.

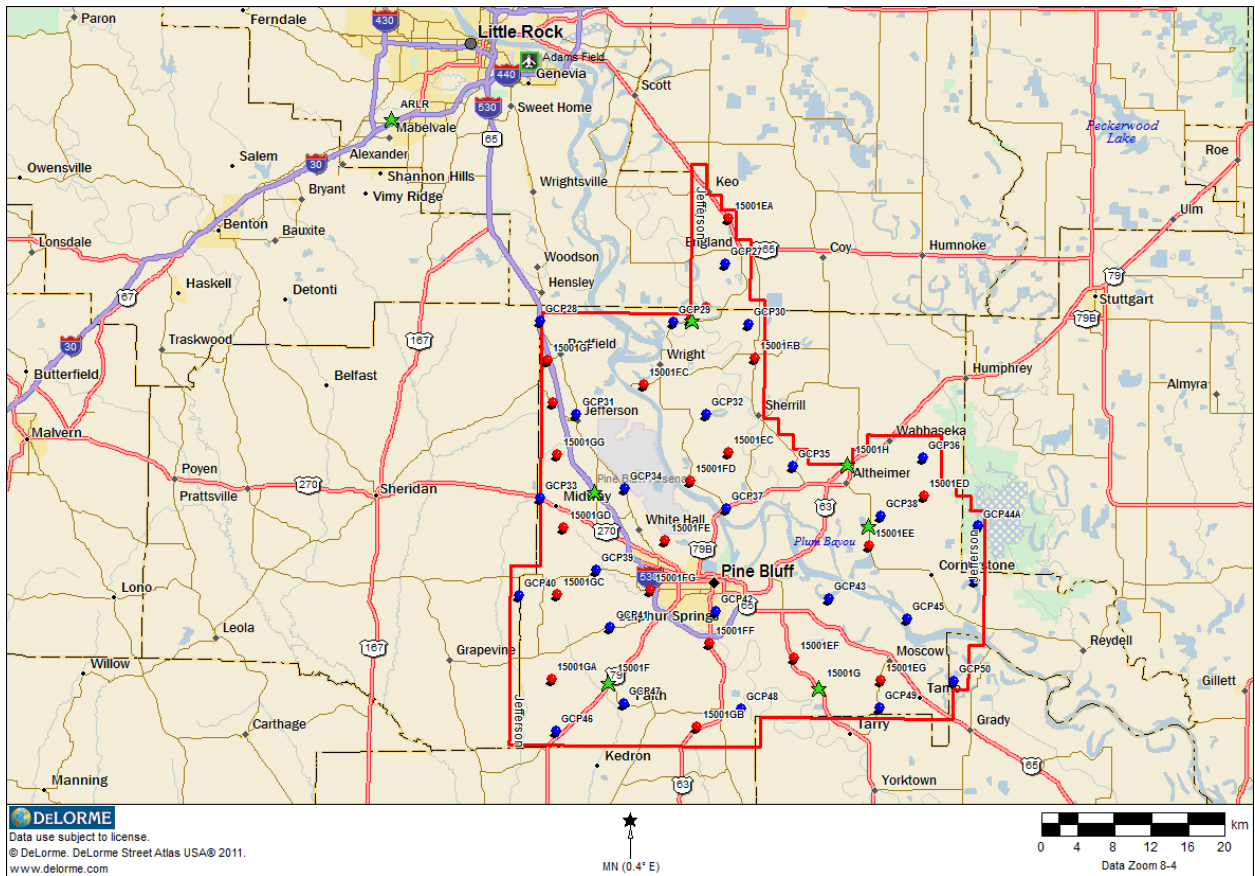


Figure 3 Jefferson County
 On the map above, the twenty-six LiDAR points (GCP26-GCP50) for Jefferson County are shown by blue dots, the 21 LiDAR check points are shown as red dots and the location of the CORS and the temporary base stations are shown as green stars.

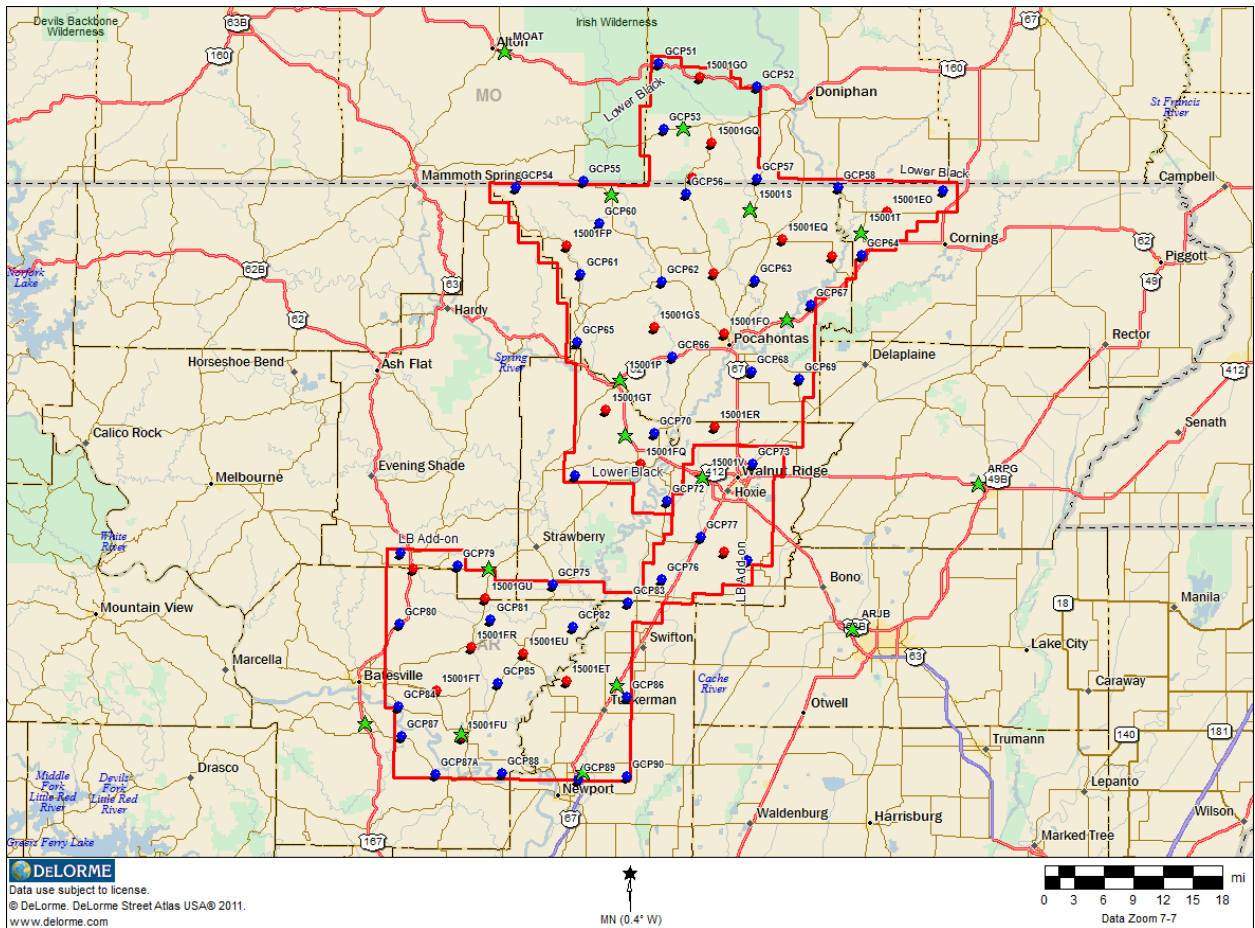


Figure 4 Lower Black River Watersheds

On the map above, the forty-one LiDAR points (GCP51-GCP90) for the Lower Black Watershed are shown by blue dots, the 21 LiDAR check points are shown as red dots and the location of the CORS and the temporary base stations are shown as green stars.

CONTROL

The National Spatial Reference System (NSRS) was used to provide control for the network. Six CORS stations provided the ties between the NSRS and the new stations. The following table summarizes the NSRS stations:

Name	CORS ID	PID	Site
BATESVILLE CORS ARP	ARBT	DH8992	Lower Black
JONESBORO CORS ARP	ARJB	DO9379	Lower Black
PARAGOULD CORS ARP	ARPG	DH7109	Lower Black
MODOT ALTON CORS ARP	MOAT	DN6073	Lower Black
LITTLE ROCK CORS ARP	ARLR	DH7107	Jefferson
CRAFTON TULL COOP CORS ARP	CTA1	DG9661	Washington

The horizontal datum was the North American Datum of 1983 (NAD83). The vertical datum was the North American Vertical Datum of 1988 (NAVD 1988). The GEOID12A model was used to obtain NAVD 1988 orthometric heights from the GRS 1980 ellipsoidal heights.

WASHINGTON COUNTY STATIONS

The 26 newly surveyed LiDAR control points were a combination of cut grass, sparse grass, and bare ground. The 21 newly surveyed LiDAR check points were 7 points in bare or open terrain, 7 points in tall brush or crops and 7 points in the woods. The table below summarizes the new stations:

Station Name	GPSID	USGS Quad	Description
GCP01	15001AA	ROBINSON	cut grass, on the north side of Osage Creek Road & west side of Logan Road
GCP02	15001AB	SPRING VALLEY	sparse grass, on the north side of The Pines Road in the center of a dirt drive headed north
GCP03	15001AC	SPRING VALLEY	grass, west shoulder of SR303
GCP04	15001AD	SPRINGDALE	cut grass, on the west side of CR709 in the north east corner of a private lot
GCP05	15001AE	ROBINSON	sparse, on the east side of Robinson Road just south of the Illinois River
GCP06	15001AF	ELKINS	grass, on the east side of SR265 at a turnaround in the median
GCP07	15001AG	GOSHEN	grass, on the southeast shoulder of SR45 just east pass Running Ridge Dr
GCP08	15001AH	RHEA	grass, on the west side of CR6 just south of SR244 and in the northeast corner of a poultry farm
GCP09	15001AI	WHEELER	grass, on the south shoulder of SR16
GCP10	15001AJ	WATTS	grass, east side of Colony Road and southwest side of SR59
GCP11	15001AK	LINCOLN	grass, west side of US62 and north of the cemetery for Summers Baptist Church
GCP12	15001AL	WHEELER	sparse grass, south side of CR80 between two utility vaults
GCP13	15001AM	ELKINS	sparse grass, parking area for New Life Church on the west side of N Lake Sequoyah Spur
GCP14	15001AN	GOSHEN	gravel, east side of CR310 just north of CR44
GCP15	15001AO	PRAIRIE GROVE	gravel/grass, southeast corner of a gravel pull off for a utility box on the south side of CR18 & CR403 intersection
GCP16	15001AP	SULPHUR CITY	grass, on the south side of CR32 opposite a dirt drive to the north
GCP17	15001AQ	LINCOLN	grass, on the west shoulder of SR59 just north of Maloney Road
GCP18	15001AR	WEST FORK	grass, on the northwest side of CR224, just north of a bend in the road
GCP19	15001AS	DELANEY	gravel/asphalt, on the west side of CR47 at a private drive
GCP20	15001AT	STRICKLER	grass, east of CR285 in a grass pasture
GCP21	15001AU	BRENTWOOD	grass, on the south side of CR38 just north of a small stream
GCP22	15001AV	EVANSVILLE	gravel, turn out on the north side of SR59
GCP23	15001AW	STRICKLER	gravel, on the west side of CR217,86 & at a private drive to the west
GCP24	15001AX	DELANEY	gravel, parking lot for Temple Hill Church on the east side of CR38
GCP25	15001AY	FAYETTVILLE	gravel, private drive apron on the east side of SR265
GCP03A	15001AZ	SPRING VALLEY	gravel, west side of CR381 (Hardwood Road) just south of US412
TALL1	15001EH	SPRING VALLEY	short grass, on the west side of SR303 in a field opposite CR526
TALL6	15001EI	PRAIRIE GROVE	tall grass, on the east side of CR623 in the Prairie Grove Battlefield State Park
TALL5	15001EJ	RHEA	tall brush, on the west side of CR33 in the southeast corner of the Rhea Community Center
TALL4	15001EK	RHEA	tall brush, on the east side of CR669 & opposite CR821
TALL3	15001EL	WATTS	tall brush, on the south side of SR244 & east side of SR59

Station Name	GPSID	USGS Quad	Description
TALL7	15001EM	PRAIRIE GROVE	tall brush, on the west side of CR29 & opposite CR4282
TALL2	15001EN	SULPHUR CITY	tall brush, in a field on the north side of CR151 and west of S Center St
OPEN4	15001FH	SPRINGDALE	grass, on the west side of CR700 just north of CR884 & east of I540
OPEN7	15001FI	EVANSVILLE	grass, on the east side of CR292 & in the front of the Marrow Valley Christian Fellowship Church
OPEN5	15001FJ	FAYETTVILLE	grass, on the north side of McMillan Dr just west of Marinoni Dr & south of W Wedington Dr
OPEN6	15001FK	FAYETTVILLE	grass, on the north side of US62 & east of the Arvest Bank
OPEN3	15001FL	SULPHUR CITY	grass, on the south side of CR119 just east from S Whitehouse Rd
OPEN2	15001FM	BRENTWOOD	bare, on the north side of Hazel Valley Road
OPEN1	15001FN	BRENTWOOD	grass, on the west side of CR126 in the northern part of the Coil Center Cemetery
WOODS1	15001GH	SONORA	woods, on the north side of the Blue Springs Boat Launch on the east side of CR70
WOODS3	15001GI	RHEA	woods, on the north side of CR16 & north of the Lake Wedington Parking area for the hiking trails
WOODS2	15001GJ	FAYETTVILLE	woods, on the west side of Lake Wilson along the dam axis extended
WOODS4	15001GK	ROBINSON	woods, on the west side of Robinson Road just south of the Illinois River
WOODS7	15001GL	STRICKLER	woods, southwest of the parking lot for the Devils Den State Park & on the east side of Lee Creek
WOODS5	15001GM	EVANSVILLE	woods, south of a cemetery on the east side of CR295
WOODS6	15001GN	STRICKLER	woods, on the south side of SR265 & on the west side of a ROW clearing

These stations were not permanently marked.

JEFFERSON COUNTY STATIONS

The 26 newly surveyed LiDAR control points were a combination of cut grass, sparse grass, and bare ground. The 21 newly surveyed LiDAR check points were 7 points in bare or open terrain, 7 points in tall brush or crops and 7 points in the woods. The table below summarizes the new stations:

Station Name	GPSID	USGS Quad	Description
GCP26	15001BA	KEO	grass, at the southeast corner of an abandoned church property on the east side of CR1835
GCP27	15001BB	ENGLAND	bare, east side of a grain storage site on the north side of CR851
GCP28	15001BC	REDFIELD	bare ground (rough asphalt) on west side of SR 365 on bridge
GCP29	15001BD	WRIGHT	sparse, intersection of field roads to the east of Carlee Rd & a set of flood gates for a canal
GCP30	15001BE	SHERILL	bare, centerline intersection of Catus Lane & field roads
GCP31	15001BF	REDFIELD	gravel, on the west side of the RR tracks and just south of NCTR road to the east of SR365
GCP32	15001BG	WRIGHT	bare, centerline of Bitsy Rd on the west side of N Pack Rd
GCP33	15001BH	HARDIN	bare ground, west side of N,S dirt road at center of dirt drive to the west
GCP34	15001BI	WHITE HALL	bare ground, north side of Langrell Lane at south edge of grass shoulder
GCP35	15001BJ	ROB ROY	grass, field on the east side of SR15
GCP36	15001BK	ALTHEIMER	bare, center of Mulberry Grove Rd near an irrigation pump on the south side of road

Station Name	GPSID	USGS Quad	Description
GCP37	15001BL	ROB ROY	sparse, field southwest of Earl Chadick Rd, northwest of a private drive & southeast of US79B
GCP38	15001BM	ALTHEIMER	sparse, intersection of field roads east of SR88
GCP39	15001BN	PINE BLUFF NW	grass, on the north end of St Luke AME Church cemetery & south side of parking lot
GCP40	15001BO	PINE BLUFF NW	brush, centerline of trail on the west side of CR29
GCP41	15001BP	PINE BLUFF	grass, small island on the east side of SR54 & opposite Dollar Store
GCP42	15001BQ	PINE BLUFF	gravel, parking for Church of Jesus Christ west of S Georgia St & north of E 34th St
GCP43	15001BR	MOSCOW	grass, south side of Watkins Lake Rd & north edge of a field
GCP44	15001BS	CORNERSTONE	sparse, field on the northwest side of Cornerstone Rd
GCP44A	15001BZ	HUMPHREY SW	bare, Longbell Rd an access area for Bayou Metro WMA
GCP45	15001BT	MOSCOW	gravel, top of Levee road, where another levee T's from the west
GCP46	15001BV	KEDRON	low brush, north side of Hudson Cemetery Rd in a logged lot
GCP47	15001BU	FAITH	bare, dump area on the north side of SR54 & at intersection of trails
GCP48	15001BW	PINEBERGEN	grass, south of Pinebergen Rd & west of Hwy 530 & in the northeast corner of a cemetery
GCP49	15001BX	TARRY	grass, on the west side of SR199 near an irrigation pump and fuel tank
GCP50	15001BY	CORNERSTONE	sparse, field on the south side of Dutch Rd
OPEN1	15001FC	WRIGHT	bare, centerline of a north field road on the north side of Lock & Dam #5 Road, just west of a levee
OPEN2	15001FD	WHITE HALL	bare, east side of Earl Chadick Rd & north of Morris Chapel Rd
OPEN3	15001FB	SHERRILL	grass, in front of the Tucker Fire Dept on the east side of parking lot & east of SR15
OPEN4	15001FA	WRIGHT	gravel/asphalt, parking for Plum Bayou Boat access
OPEN5	15001FF	PINE BLUFF	grass, vacant lot on the west side of US63 & south of Ridgway Rd
OPEN6	15001FG	PINE BLUFF	grass, field on the south side of SR104
OPEN7	15001FE	WHITE HALL	bare, pull off on the north side of Jefferson Pkwy, west of RRxing and East of Dixie Woods Dr
TALL1	15001EB	WRIGHT	tall brush, on the west side of Hunter road & north of a tributary stream to Arkansas River
TALL2	15001EC	ROB ROY	tall grass, on the south side of Mitchell Rd
TALL3	15001EA	ENGLAND	tall grass, on the south side of CR846 & east of access drive to a cell tower on the east side of US165
TALL4	15001EE	ALTHEIMER	tall brush, on the west side of SR88 just north of Riley Bayou
TALL5	15001ED	ALTHEIMER	tall brush, on the south side of SR88
TALL6	15001EG	MOSCOW	tall brush, east side of SR199
TALL7	15001EF	LADD	tall grass, on the east side of US425, just north of a high tension line
WOODS1	15001GB	FAITH	woods, on the north side of a cemetery on the north side of US63
WOODS2	15001GA	PINE BLUFF NW	woods, pine stand on the east side of Huntley Trail
WOODS3	15001GD	HARDIN	woods, pines on the east side of Bruce Trl
WOODS4	15001GC	PINE BLUFF NW	woods, pine trees on the north side of Summers Rd
WOODS5	15001GF	REDFIELD	woods, north side of Sheridan Rd east of exit ramp I530S
WOODS6	15001GE	REDFIELD	woods, southwest of Stage Coach Rd & south east side of Davis Rd
WOODS7	15001GG	HARDIN	woods, on the north side of Gravel Pit Rd, opposite Waste Management site and a strip mine

These stations were not permanently marked.

LOWER BLACK WATERSHED STATIONS

The 41 newly surveyed LiDAR control points were a combination of cut grass, sparse grass, and bare ground. The 21 newly surveyed LiDAR check points were 7 points in bare or open terrain, 7 points in tall brush or crops and 7 points in the woods. The table below summarizes the new stations:

Station Name	GPSID	USGS Quad	Description
GCP51	15001CA	BARDLEY	bare, on the north side of US160 just east of 160W,21 in a parking area
GCP52	15001CB	BRIAR	grass, east end of a cemetery on the north side of US160
GCP53	15001CC	GATEWOOD	bare, in front of the Gatewood Fire Dept on the north side of SR142 & west of Y
GCP54	15001CD	HARDY NE	grass, field on the west side of Farewell Rd at a 90 degree corner
GCP55	15001CE	BILLMORE	bare, pull off on the south side of CR BB at Running Ranch by two small barns
GCP56	15001CF	WARM SPRINGS	grass, on the east side of SR251 & south side of the dirt drive to Power Of Freedom Ministries
GCP57	15001CG	POYNOR	grass, south side of SR24 & centerline of a dirt drive
GCP58	15001CH	SUPPLY	grass, east side of SR211 & south of an abandoned house
GCP59	15001CI	CORNING	grass, west edge of a field track road at an irrigation pump
GCP60	15001CJ	DALTON	bare, center of Diles Creek Rd & King Rd intersection
GCP61	15001CK	RAVENDEN SPRINGS	low brush, on the northeast corner of Upper Janes Creek Rd & Lower Janes Creek Rd intersection
GCP62	15001CL	RAVENDEN SPRINGS SE	gravel, on the northeast quad of the SR93 & SR90 intersection
GCP63	15001CM	POCAHONTAS	grass, on the north side of CR166, just west of a fence line
GCP64	15001CN	DATTO	grass, north side of Loren St & east of 1st St
GCP65	15001CO	RAVENDEN SPRINGS	bare, southeast dirt area of SR90 & Wyatt Rd intersection
GCP66	15001CP	NOLAND	gravel, on the south side of US62 just west of a café parking area
GCP67	15001CQ	REYNO	grass, on the west side of Windmill Rd & south of Biggers Reyno Rd
GCP68	15001CR	MANSON	bare, on the north edge of Martin Rd at a field track headed north
GCP69	15001CS	O'KEAN	grass, east side of CR231 at the northwest intersection of two field tracks
GCP70	15001CT	NOLAND	sparse grass, on the north side of CR216
GCP71	15001CU	SMITHVILLE	low brush, open area on the northeast side of CR269
GCP72	15001CV	BLACK ROCK	grass area, on the east side of CR511 & south side of CR516 & opposite a grain storage facility
GCP73	15001CW	WALNUT RIDGE	grass, on the east side of SR34, south of CR612 and west of RR
GCP74	15001CX	CAVE CITY	grass, on the south side of Jackson Springs Rd & north shore of Upper Lake of Green Acres
GCP75	15001CY	STRAWBERRY	gravel, east side of SR25 in front of the Saffell Fire Station
GCP76	15001CZ	ALICIA	grass area, on the southwest side of CR547 on the outside of a 90 degree bend
GCP77	15001DA	ALICIA	gravel, on the east side of US67 & on the north side of a private dirt drive
GCP78	15001DB	PODO CREEK	grass area, on the south side of CR720 between a field and a demolished house
GCP79	15001DC	GRANGE	sparse grass, on east side of CR41 just south of a new trail
GCP80	15001DD	SULPHUR ROCK	bare, dirt parking on the north side of US167 & west side of Weaver Chapel Rd
GCP81	15001DE	CHARLOTTE	bare, asphalt/gravel at the centerline intersection of Shamrock Lane & Ross Lane
GCP82	15001DF	CORD	bare, intersection of field tracks on the north side of Upper Lockhart Rd

Station Name	GPSID	USGS Quad	Description
GCP83	15001DG	STRANGERS HOME	grass, north side of CR87 & just west of a canal
GCP84	15001DH	SALADO	sparse, north side of SR394
GCP85	15001DI	CHARLOTTE	low grass, on the east side of SR122 in a field
GCP86	15001DJ	TUCKERMAN	sparse, north side of CR224 & east of a canal
GCP87	15001DK	SALADO	grass, south side of SR14 at field track access & opposite Buckeye Ln
GCP88	15001DL	NEWARK	bare, east edge of Wall Lake Rd along field edge
GCP89	15001DM	TUCKERMAN	grass, just north of Mimosa Ln extended and west edge of cotton fields
GCP90	15001DN	TUCKERMAN	bare, east side of a field road & a canal & south of an irrigation pump
GCP87A	15001DO	SALADO	grass, north side of SR14 & east side of parking lot for Maple Springs Church
TALL3	15001EO	DATTO	crops, north side of SR328 & west of a north field track road
TALL4	15001EP	SUPPLY	crops, on the east side of SR328, just north of a field track road
TALL5	15001EQ	SUPPLY	brush, east side of SR328, just north of the House of Prayers Church
TALL2	15001ER	MANSON	crops, on the north side of CR400 & west of a canal
TALL1	15001ES	PODO CREEK	tall brush, south of CR716 & west of CR721, a highway under construction
TALL7	15001ET	CORD	tall brush, on the west side of CR66 just south of a 90 degree bend
TALL6	15001EU	CORD	tall brush, on the east side of SR122, south of Hopewell Rd & a concrete foundation & west of a dirt road
OPEN1	15001FO	POCAHONTAS	sparse grass, north side of SR115 at the entrance to Randolph County Fairgrounds
OPEN2	15001FP	HARDY NE	grass, field on the east side of Upper Janes Creek Rd
OPEN3	15001FQ	EATON	gravel, area around a cell tower on the south side of SR117 & west of a drive
OPEN5	15001FR	CHARLOTTE	gravel, parking for Jerrel Lillard Fields on the east side of School Rd
OPEN4	15001FS	CAVE CITY	grass, vacant lot on the east side of Welcome Ln & south of East Patterson Ln
OPEN6	15001FT	SULPHUR ROCK	grass, on the east side of N Main St & west of a drive for Sulphur Rock School opposite the athletic fields
OPEN7	15001FU	NEWARK	bare, on the west side of SR69 at intersection of field tracks, just north of a canal
WOODS2	15001GO	BARDLEY	woods, north side of US160
WOODS3	15001GP	GATEWOOD	woods, southwest quad of FR53 & FR54 intersection
WOODS4	15001GQ	GATEWOOD	woods, east side of SR P & opposite a brush field
WOODS1	15001GR	RAVENDEN SPRINGS SE	woods, on the north side of Broadway St & east of SR251
WOODS5	15001GS	RAVENDEN SPRINGS SE	woods, on the north side of Valley Chapel Rd & west of Blacks Ferry Rd
WOODS6	15001GT	IMBODEN	woods, north side of CR204 & west side of power line ROW
WOODS7	15001GU	GRANGE	woods, southwest corner of Wildcat Rd & N Charlotte Rd intersection

These stations were not permanently marked.

GPS OBSERVATIONS

Three Trimble dual frequency receivers were used in a static differential mode on days 26 to 29, and 34 to 41 of 2015 to measure baseline vectors between the temporary base stations, the CORS and each of the new stations. The table below summarizes the occupations:

GPSID	UTC Start	Duration Minutes	HI meters	Filename
15001Z	01/26/2015 20:37	208	0.000	14130260.dat
CTA1	01/26/2015 20:37	208	0.000	CTA1026.15o
15001FN	01/26/2015 20:56	12	2.000	07620260.dat

GPSID	UTC Start	Duration Minutes	HI meters	Filename
15001AU	01/26/2015 21:20	19	2.000	07620261.dat
15001AX	01/26/2015 21:52	20	2.000	07620262.dat
15001AS	01/26/2015 22:32	20	2.000	07620263.dat
15001FM	01/26/2015 22:58	20	2.000	07620264.dat
15001FL	01/26/2015 23:30	19	2.000	07620265.dat
15001Y	01/27/2015 13:54	627	0.000	14130270.dat
CTA1	01/27/2015 13:54	627	0.000	CTA1027.15o
15001AG	01/27/2015 14:21	19	2.000	07620270.dat
15001IH	01/27/2015 15:03	23	2.105	07620272.dat
15001AC	01/27/2015 15:37	20	2.105	07620273.dat
15001EH	01/27/2015 16:03	20	2.105	07620274.dat
15001AB	01/27/2015 16:52	20	2.105	07620275.dat
15001FH	01/27/2015 17:58	20	2.105	07620276.dat
15001AD	01/27/2015 18:36	19	2.105	07620278.dat
15001FJ	01/27/2015 19:11	20	2.105	07620279.dat
15001AF	01/27/2015 19:44	19	2.105	0762027A.dat
15001AM	01/27/2015 20:23	30	2.105	0762027B.dat
15001AN	01/27/2015 21:17	21	2.105	0762027C.dat
15001EN	01/27/2015 21:50	29	2.105	0762027D.dat
15001AZ	01/27/2015 22:46	20	2.105	0762027E.dat
15001IJ	01/27/2015 23:43	19	2.105	0762027G.dat
15001X	01/28/2015 13:43	639	0.000	14130280.dat
CTA1	01/28/2015 13:43	639	0.000	CTA1028.15o
15001II	01/28/2015 13:54	21	2.105	07620281.dat
15001AE	01/28/2015 15:06	21	2.105	07620283.dat
15001AA	01/28/2015 15:45	21	2.330	07620284.dat
15001AH	01/28/2015 16:33	21	2.105	07620285.dat
15001EL	01/28/2015 17:02	20	2.105	07620286.dat
15001AJ	01/28/2015 17:28	20	2.105	07620287.dat
15001EK	01/28/2015 18:06	21	2.105	07620288.dat
15001EJ	01/28/2015 18:42	19	2.105	07620289.dat
15001AK	01/28/2015 19:21	20	2.105	0762028A.dat
15001AO	01/28/2015 20:05	20	2.105	0762028B.dat
15001AL	01/28/2015 20:40	19	2.105	0762028C.dat
15001EI	01/28/2015 21:06	20	2.105	0762028D.dat
15001FK	01/28/2015 21:38	20	2.105	0762028E.dat
15001AY	01/28/2015 22:09	20	2.105	0762028F.dat
15001AP	01/28/2015 22:58	19	2.105	0762028G.dat
15001AI	01/28/2015 23:59	18	2.105	0762028H.dat
15001W	01/29/2015 13:46	415	0.000	14130290.dat
CTA1	01/29/2015 13:46	415	0.000	cta1029.15o
15001FI	01/29/2015 14:07	20	2.105	07620290.dat
15001AQ	01/29/2015 14:38	20	2.105	07620291.dat
15001AV	01/29/2015 15:10	21	2.105	07620292.dat
15001IM	01/29/2015 15:52	18	2.105	07620294.dat
15001AT	01/29/2015 16:35	19	2.105	07620295.dat
15001IN	01/29/2015 17:11	18	2.105	07620297.dat
15001EM	01/29/2015 17:42	20	2.105	07620298.dat
15001AR	01/29/2015 18:16	20	2.105	07620299.dat
15001IL	01/29/2015 19:11	32	2.105	0762029B.dat
15001AW	01/29/2015 20:02	25	2.576	0762029C.dat
ARBT	02/03/2015 19:35	84	0.000	arbt034.15o
ARJB	02/03/2015 19:35	254	0.000	arjb034.15o
ARPG	02/03/2015 19:35	84	0.000	arpg034.15o
MOAT	02/03/2015 19:35	254	0.000	moat034.15o
15001V	02/03/2015 19:36	253	2.000	14130340.dat
15001CV	02/03/2015 19:56	21	2.000	07620340.dat
15001CZ	02/03/2015 20:29	20	2.000	07620341.dat
15001DB	02/03/2015 21:07	21	2.000	07620342.dat
15001ES	02/03/2015 21:35	22	2.000	07620343.dat
15001DA	02/03/2015 22:04	19	2.000	07620344.dat
15001CW	02/03/2015 22:42	21	2.000	07620345.dat
15001ER	02/03/2015 23:15	20	2.000	07620346.dat

GPSID	UTC Start	Duration Minutes	HI meters	Filename
ARJB	02/04/2015 13:32	627	0.000	arjb035.15o
MOAT	02/04/2015 13:32	627	0.000	moat035.15o
1500IU	02/04/2015 13:33	221	0.000	14130350.dat
15001CM	02/04/2015 13:51	20	2.000	07620350.dat
ARPG	02/04/2015 14:05	594	0.000	arpg035.15o
ARBT	02/04/2015 14:06	593	0.000	arbt035.15o
15001FO	02/04/2015 14:21	20	2.000	07620351.dat
15001CP	02/04/2015 14:57	21	2.000	07620352.dat
15001CR	02/04/2015 15:33	21	2.000	07620353.dat
15001CS	02/04/2015 16:03	21	2.000	07620354.dat
15001CQ	02/04/2015 16:49	21	2.000	07620355.dat
15001T	02/04/2015 17:34	187	0.000	14130351.dat
15001CH	02/04/2015 17:50	21	2.000	07620356.dat
15001CI	02/04/2015 18:28	20	2.000	07620357.dat
15001EO	02/04/2015 19:00	21	2.000	07620358.dat
15001CN	02/04/2015 19:34	20	2.000	07620359.dat
15001EP	02/04/2015 20:10	21	2.000	0762035A.dat
15001S	02/04/2015 21:18	163	0.000	14130352.dat
15001CG	02/04/2015 21:29	20	2.000	0762035B.dat
15001EQ	02/04/2015 22:01	22	2.000	0762035C.dat
15001IR	02/04/2015 22:38	24	2.105	0762035E.dat
15001CL	02/04/2015 23:18	20	2.105	0762035F.dat
ARBT	02/05/2015 13:26	633	0.000	arbt036.15o
ARJB	02/05/2015 13:26	633	0.000	arjb036.15o
ARPG	02/05/2015 13:26	633	0.000	arpg036.15o
MOAT	02/05/2015 13:26	633	0.000	moat036.15o
15001R	02/05/2015 13:27	284	0.000	14130360.dat
15001CC	02/05/2015 13:38	19	2.105	07620360.dat
15001CA	02/05/2015 14:18	20	2.105	07620361.dat
15001IO	02/05/2015 14:52	18	2.105	07620363.dat
15001CB	02/05/2015 15:37	21	2.105	07620364.dat
15001CF	02/05/2015 16:26	20	2.105	07620365.dat
15001IP	02/05/2015 16:56	31	2.105	07620367.dat
15001IQ	02/05/2015 17:43	21	2.105	07620369.dat
15001Q	02/05/2015 18:36	192	0.000	14130361.dat
15001CJ	02/05/2015 18:49	19	2.105	0762036A.dat
15001CK	02/05/2015 19:28	20	2.105	0762036B.dat
15001FP	02/05/2015 19:58	21	2.105	0762036C.dat
15001CD	02/05/2015 20:47	20	2.105	0762036D.dat
15001CE	02/05/2015 21:24	18	2.105	0762036E.dat
15001P	02/05/2015 22:26	115	0.000	14130362.dat
15001CO	02/05/2015 22:46	20	2.226	0762036F.dat
15001IS	02/05/2015 23:27	14	2.105	0762036H.dat
15001IS	02/05/2015 23:47	20	2.105	0762036I.dat
ARBT	02/06/2015 13:45	614	0.000	arbt037.15o
ARJB	02/06/2015 13:45	614	0.000	arjb037.15o
ARPG	02/06/2015 13:45	614	0.000	arpg037.15o
MOAT	02/06/2015 13:45	614	0.000	moat037.15o
15001O	02/06/2015 13:46	167	0.000	14130370.dat
15001IT	02/06/2015 14:00	24	2.105	07620371.dat
15001CU	02/06/2015 14:45	20	2.105	07620372.dat
15001FQ	02/06/2015 15:19	21	2.105	07620373.dat
15001CT	02/06/2015 15:59	22	2.105	07620374.dat
15001N	02/06/2015 17:09	413	0.000	14130371.dat
15001DC	02/06/2015 17:19	19	2.105	07620375.dat
15001FS	02/06/2015 17:47	21	2.105	07620376.dat
15001CX	02/06/2015 18:17	21	2.105	07620377.dat
15001DD	02/06/2015 18:55	20	2.105	07620378.dat
15001FR	02/06/2015 19:32	20	2.105	07620379.dat
15001DE	02/06/2015 20:03	20	2.105	0762037A.dat
15001IU	02/06/2015 20:32	24	2.105	0762037C.dat
15001CY	02/06/2015 21:16	20	2.105	0762037D.dat
15001DF	02/06/2015 21:50	21	2.105	0762037E.dat
15001DI	02/06/2015 22:36	22	2.105	0762037F.dat

GPSID	UTC Start	Duration Minutes	HI meters	Filename
15001EU	02/06/2015 23:06	15	2.105	0762037G.dat
15001EU	02/06/2015 23:24	19	2.105	0762037H.dat
ARBT	02/07/2015 14:00	465	0.000	arbt038.15o
ARJB	02/07/2015 14:00	465	0.000	arjb038.15o
15001M	02/07/2015 14:01	220	0.000	14130381.dat
15001DL	02/07/2015 14:15	15	2.000	07620380.dat
15001DO	02/07/2015 14:52	19	2.000	07620381.dat
15001DK	02/07/2015 15:37	19	2.000	07620382.dat
15001DH	02/07/2015 16:24	19	2.000	07620383.dat
15001FT	02/07/2015 16:53	19	2.000	07620384.dat
15001FU	02/07/2015 17:23	16	2.000	07620385.dat
15001L	02/07/2015 18:14	120	0.000	14130382.dat
15001DG	02/07/2015 18:30	19	2.000	07620386.dat
15001ET	02/07/2015 19:15	20	2.000	07620388.dat
15001DJ	02/07/2015 19:50	19	2.000	07620389.dat
15001K	02/07/2015 20:31	74	0.000	14130383.dat
15001DN	02/07/2015 20:42	18	2.000	0762038A.dat
15001DM	02/07/2015 21:16	20	2.000	0762038B.dat
ARLR	02/08/2015 14:45	554	0.000	arlr039.15o
15001J	02/08/2015 14:46	412	0.000	14130390.dat
15001EB	02/08/2015 14:55	19	2.000	07620390.dat
15001BD	02/08/2015 15:22	20	2.000	07620391.dat
15001FC	02/08/2015 15:52	17	2.000	07620392.dat
15001BG	02/08/2015 16:20	21	2.000	07620393.dat
15001EC	02/08/2015 17:11	18	2.000	07620394.dat
15001FD	02/08/2015 17:38	21	2.000	07620395.dat
15001BJ	02/08/2015 18:13	20	2.000	07620396.dat
15001FB	02/08/2015 18:45	20	2.000	07620397.dat
15001BE	02/08/2015 19:12	16	2.000	07620398.dat
15001EA	02/08/2015 19:45	19	2.000	07620399.dat
15001BA	02/08/2015 20:13	21	2.000	0762039A.dat
15001BB	02/08/2015 20:49	17	2.000	0762039B.dat
15001FA	02/08/2015 21:17	16	2.000	0762039C.dat
15001I	02/08/2015 22:11	109	0.000	14130391.dat
15001BT	02/08/2015 22:34	16	2.000	0762039D.dat
15001BS	02/08/2015 23:06	19	2.000	0762039E.dat
15001EE	02/08/2015 23:39	17	2.000	0762039F.dat
ARLR	02/09/2015 13:39	620	0.000	arlr040.15o
15001H	02/09/2015 13:40	145	0.000	14130400.dat
15001BK	02/09/2015 13:55	17	2.000	07620400.dat
15001BM	02/09/2015 14:27	20	2.000	07620401.dat
15001BZ	02/09/2015 15:04	21	2.226	07620402.dat
15001ED	02/09/2015 15:35	19	2.226	07620403.dat
15001G	02/09/2015 16:29	324	0.000	14130401.dat
15001BX	02/09/2015 16:45	21	2.000	07620404.dat
15001EG	02/09/2015 17:10	20	2.000	07620405.dat
15001E	02/09/2015 17:52	85	0.000	54320402.dat
15001C	02/09/2015 17:52	85	0.000	54320402.dat
15001BY	02/09/2015 17:55	19	2.000	07620406.dat
15001BR	02/09/2015 18:36	19	2.000	07620407.dat
15001EF	02/09/2015 19:07	23	2.000	07620408.dat
15001BW	02/09/2015 19:45	22	2.000	07620409.dat
15001IB	02/09/2015 20:18	23	2.105	0762040B.dat
15001FF	02/09/2015 20:50	19	2.105	0762040C.dat
15001BQ	02/09/2015 21:17	19	2.105	0762040D.dat
15001F	02/09/2015 22:38	109	0.000	14130402.dat
15001BU	02/09/2015 22:45	19	2.105	0762040E.dat
15001IA	02/09/2015 23:23	21	2.105	0762040G.dat
15001BV	02/09/2015 23:59	21	2.105	0762040H.dat
ARLR	02/10/2015 13:14	460	0.000	arlr041.15o
15001D	02/10/2015 13:15	459	0.000	14130410.dat
15001ID	02/10/2015 13:31	21	2.105	07620411.dat
15001BO	02/10/2015 14:05	20	2.105	07620412.dat

GPSID	UTC Start	Duration Minutes	HI meters	Filename
15001IC	02/10/2015 14:37	28	2.105	07620414.dat
15001BP	02/10/2015 15:29	23	2.105	07620415.dat
15001FG	02/10/2015 16:04	21	2.105	07620416.dat
15001BN	02/10/2015 16:40	23	2.105	07620417.dat
15001BL	02/10/2015 17:25	21	2.105	07620418.dat
15001FE	02/10/2015 17:56	23	2.105	07620419.dat
15001BF	02/10/2015 18:41	21	2.105	0762041A.dat
15001IF	02/10/2015 19:17	22	2.105	0762041C.dat
15001IE	02/10/2015 19:50	24	2.105	0762041E.dat
15001IG	02/10/2015 20:23	23	2.105	0762041G.dat

GPS DATA PROCESSING

The data was downloaded to a PC and processed using Trimble Business Center, version 3.40. All of the lines between the CORS and the temporary base stations were processed, and selected lines from the nearest CORS or temporary base were processed to each new station. The single baseline method was used, with the precise ephemeris. All of the baselines were integer bias fixed solutions. The baselines to be processed were manually selected, based on proximity to nearby CORS or temporary base. The table below shows the results of the baseline processing:

From	To	UTC Start	Dur. mins	Length meters	H Prec	V Prec	RMS	I/T Ratio
CTA1	15001Z	01/26/2015 20:37	202	61791	0.005	0.016	0.000	3.3
15001Z	15001FN	01/26/2015 20:56	12	12	0.003	0.004	0.000	961.6
15001Z	15001AU	01/26/2015 21:20	19	3908	0.009	0.011	0.001	4.9
15001Z	15001AX	01/26/2015 21:52	20	11688	0.013	0.015	0.001	1.7
15001Z	15001AS	01/26/2015 22:32	20	14306	0.010	0.020	0.001	1.4
15001Z	15001FM	01/26/2015 22:58	20	12024	0.012	0.029	0.001	1.7
15001Z	15001FL	01/26/2015 23:30	19	12870	0.012	0.027	0.000	1.5
CTA1	15001Y	01/27/2015 13:54	605	28291	0.003	0.009	0.000	21.4
15001Y	15001AG	01/27/2015 14:21	19	10458	0.014	0.027	0.001	1.8
15001IH	15001Y	01/27/2015 15:03	23	10098	0.010	0.024	0.001	2.3
15001Y	15001AC	01/27/2015 15:37	20	17966	0.012	0.018	0.001	1.1
15001Y	15001EH	01/27/2015 16:03	20	19761	0.012	0.014	0.001	1.0
15001Y	15001AB	01/27/2015 16:52	20	16975	0.011	0.016	0.001	1.2
15001Y	15001FH	01/27/2015 17:58	20	10713	0.011	0.025	0.001	1.9
15001Y	15001AD	01/27/2015 18:36	19	14980	0.012	0.016	0.001	1.3
15001Y	15001FJ	01/27/2015 19:11	20	10304	0.013	0.014	0.001	1.9
15001Y	15001AF	01/27/2015 19:44	19	3289	0.008	0.010	0.000	5.8
15001Y	15001AM	01/27/2015 20:23	30	4650	0.007	0.012	0.000	6.5
15001Y	15001AN	01/27/2015 21:17	21	15138	0.012	0.014	0.001	1.4
15001Y	15001EN	01/27/2015 21:50	29	14805	0.010	0.012	0.001	2.0
15001Y	15001AZ	01/27/2015 22:46	20	14139	0.011	0.031	0.001	1.4
15001IJ	15001Y	01/27/2015 23:43	19	11956	0.023	0.031	0.001	1.6
CTA1	15001X	01/28/2015 13:43	616	32393	0.003	0.009	0.000	19.0
15001II	15001X	01/28/2015 13:54	21	969	0.004	0.007	0.000	21.7
15001AE	15001X	01/28/2015 15:06	21	4542	0.008	0.019	0.000	4.6
15001X	15001AA	01/28/2015 15:45	21	12332	0.022	0.030	0.002	1.7
15001X	15001AH	01/28/2015 16:33	21	9993	0.012	0.016	0.001	2.1
15001X	15001EL	01/28/2015 17:02	20	15209	0.011	0.019	0.001	1.3
15001X	15001AJ	01/28/2015 17:28	20	15643	0.010	0.020	0.001	1.3
15001X	15001EK	01/28/2015 18:06	21	6542	0.011	0.018	0.000	3.2
15001X	15001EJ	01/28/2015 18:42	19	8415	0.015	0.018	0.001	2.3
15001X	15001AK	01/28/2015 19:21	20	16841	0.012	0.014	0.001	1.2
15001X	15001AO	01/28/2015 20:05	20	18916	0.010	0.016	0.001	1.1
15001X	15001AL	01/28/2015 20:40	19	10150	0.011	0.017	0.001	1.9
15001X	15001EI	01/28/2015 21:06	20	13000	0.012	0.014	0.001	1.5
15001X	15001FK	01/28/2015 21:38	20	12884	0.013	0.015	0.001	1.6
15001X	15001AY	01/28/2015 22:09	20	16931	0.010	0.017	0.002	1.2

From	To	UTC Start	Dur. mins	Length meters	H Prec	V Prec	RMS	L/T Ratio
15001X	15001AP	01/28/2015 22:58	19	28913	0.012	0.038	0.000	0.7
15001X	15001AI	01/28/2015 23:59	18	2864	0.007	0.009	0.000	6.3
CTA1	15001W	01/29/2015 13:46	415	57668	0.004	0.011	0.000	7.2
15001W	15001FI	01/29/2015 14:07	20	9268	0.013	0.023	0.000	2.2
15001W	15001AQ	01/29/2015 14:38	20	17385	0.013	0.029	0.000	1.2
15001W	15001AV	01/29/2015 15:10	21	16802	0.010	0.022	0.001	1.2
15001IM	15001W	01/29/2015 15:52	18	12804	0.017	0.021	0.001	1.4
15001W	15001AT	01/29/2015 16:35	19	4952	0.010	0.014	0.001	3.8
15001IN	15001W	01/29/2015 17:11	18	1967	0.006	0.011	0.001	9.2
15001W	15001EM	01/29/2015 17:42	20	7100	0.010	0.022	0.000	2.8
15001W	15001AR	01/29/2015 18:16	20	11108	0.012	0.017	0.001	1.8
15001W	15001IL	01/29/2015 19:11	32	8154	0.012	0.017	0.001	3.9
15001W	15001AW	01/29/2015 20:02	25	8187	0.010	0.017	0.001	3.1
ARBT	ARPG	02/03/2015 19:35	84	107436	0.005	0.014	0.001	0.8
ARJB	ARBT	02/03/2015 19:35	84	81146	0.005	0.014	0.001	1.0
ARJB	ARPG	02/03/2015 19:35	84	31204	0.005	0.014	0.001	2.7
MOAT	ARBT	02/03/2015 19:35	84	111020	0.006	0.013	0.001	0.8
MOAT	ARJB	02/03/2015 19:35	254	109173	0.004	0.011	0.000	2.3
MOAT	ARPG	02/03/2015 19:35	84	104017	0.005	0.014	0.001	0.8
15001V	ARBT	02/03/2015 19:36	83	67869	0.009	0.023	0.001	1.2
15001V	ARPG	02/03/2015 19:36	83	45150	0.005	0.024	0.001	1.8
ARJB	15001V	02/03/2015 19:36	253	34713	0.005	0.015	0.000	7.3
MOAT	15001V	02/03/2015 19:36	253	75957	0.005	0.014	0.000	3.3
15001V	15001CV	02/03/2015 19:56	21	6871	0.010	0.016	0.001	3.1
15001V	15001CZ	02/03/2015 20:29	20	17718	0.011	0.015	0.001	1.1
15001V	15001DB	02/03/2015 21:07	21	15325	0.012	0.014	0.001	1.4
15001V	15001ES	02/03/2015 21:35	22	12601	0.011	0.016	0.001	1.7
15001V	15001DA	02/03/2015 22:04	19	9708	0.010	0.024	0.001	2.0
15001V	15001CW	02/03/2015 22:42	21	8454	0.012	0.035	0.001	2.5
15001V	15001ER	02/03/2015 23:15	20	8407	0.011	0.016	0.001	2.4
MOAT	ARJB	02/04/2015 13:32	627	109173	0.003	0.007	0.000	5.7
ARJB	15001U	02/04/2015 13:33	221	51173	0.005	0.017	0.000	4.3
MOAT	15001U	02/04/2015 13:33	221	63045	0.005	0.016	0.000	3.5
15001U	15001CM	02/04/2015 13:51	20	8204	0.014	0.026	0.000	2.4
ARJB	ARPG	02/04/2015 14:05	594	31204	0.003	0.008	0.000	19.0
ARPG	15001U	02/04/2015 14:05	189	41010	0.004	0.016	0.000	4.6
MOAT	ARPG	02/04/2015 14:05	594	104017	0.003	0.007	0.000	5.7
ARBT	15001U	02/04/2015 14:06	188	94890	0.006	0.016	0.001	2.0
ARBT	ARPG	02/04/2015 14:06	593	107436	0.003	0.008	0.000	5.5
ARJB	ARBT	02/04/2015 14:06	593	81146	0.003	0.007	0.000	7.3
MOAT	ARBT	02/04/2015 14:06	593	111020	0.003	0.008	0.000	5.3
15001U	15001FO	02/04/2015 14:21	20	10524	0.012	0.026	0.001	1.9
15001U	15001CP	02/04/2015 14:57	21	19700	0.011	0.018	0.001	1.1
15001U	15001CR	02/04/2015 15:33	21	10279	0.013	0.015	0.001	2.0
15001U	15001CS	02/04/2015 16:03	21	9856	0.013	0.016	0.001	2.1
15001U	15001CQ	02/04/2015 16:49	21	4453	0.008	0.015	0.000	4.7
ARBT	15001T	02/04/2015 17:34	187	113251	0.007	0.020	0.001	1.7
ARJB	15001T	02/04/2015 17:34	187	64004	0.006	0.019	0.000	2.9
ARPG	15001T	02/04/2015 17:34	187	44819	0.004	0.016	0.001	4.2
MOAT	15001T	02/04/2015 17:34	187	64849	0.005	0.016	0.000	2.9
15001T	15001CH	02/04/2015 17:50	21	8417	0.013	0.024	0.000	2.5
15001T	15001CI	02/04/2015 18:29	19	14861	0.012	0.014	0.001	1.3
15001T	15001EO	02/04/2015 19:00	21	5410	0.010	0.012	0.001	3.9
15001T	15001CN	02/04/2015 19:34	20	3522	0.007	0.011	0.000	5.7
15001T	15001EP	02/04/2015 20:10	21	6125	0.010	0.016	0.001	3.4
ARBT	15001S	02/04/2015 21:18	161	104143	0.006	0.019	0.000	1.5
ARJB	15001S	02/04/2015 21:18	161	69812	0.006	0.020	0.000	2.3
ARPG	15001S	02/04/2015 21:18	161	57854	0.006	0.020	0.000	2.8
MOAT	15001S	02/04/2015 21:18	161	47323	0.004	0.020	0.000	3.4
15001S	15001CG	02/04/2015 21:29	20	5071	0.010	0.015	0.001	3.9
15001S	15001EQ	02/04/2015 22:01	22	6994	0.009	0.023	0.000	3.1
15001S	15001IR	02/04/2015 22:38	24	12070	0.012	0.041	0.000	2.0
15001S	15001CL	02/04/2015 23:18	20	18658	0.011	0.015	0.001	1.1

From	To	UTC Start	Dur. mins	Length meters	H Prec	V Prec	RMS	L/T Ratio
ARBT	ARPG	02/05/2015 13:26	633	107436	0.003	0.008	0.000	5.9
ARJB	ARBT	02/05/2015 13:26	633	81146	0.003	0.008	0.000	7.8
ARJB	ARPG	02/05/2015 13:26	633	31204	0.003	0.008	0.000	20.3
MOAT	ARBT	02/05/2015 13:26	633	111020	0.003	0.008	0.000	5.7
MOAT	ARJB	02/05/2015 13:26	633	109173	0.003	0.008	0.000	5.8
MOAT	ARPG	02/05/2015 13:26	633	104017	0.003	0.008	0.000	6.1
ARBT	15001R	02/05/2015 13:27	284	109375	0.005	0.013	0.000	2.6
ARJB	15001R	02/05/2015 13:27	284	85528	0.005	0.013	0.000	3.3
ARPG	15001R	02/05/2015 13:27	284	74913	0.005	0.014	0.000	3.8
MOAT	15001R	02/05/2015 13:27	284	31523	0.004	0.014	0.000	9.0
15001R	15001CC	02/05/2015 13:38	19	3346	0.009	0.015	0.001	5.7
15001R	15001CA	02/05/2015 14:18	20	11271	0.012	0.025	0.000	1.8
MOAT	15001CA	02/05/2015 14:18	20	24815	0.014	0.024	0.001	0.8
15001R	15001IO	02/05/2015 14:52	18	8607	0.012	0.022	0.001	2.1
15001R	15001CB	02/05/2015 15:37	21	13546	0.013	0.015	0.001	1.6
15001R	15001CF	02/05/2015 16:26	20	10557	0.011	0.018	0.001	1.9
15001R	15001IP	02/05/2015 16:56	31	8153	0.008	0.017	0.001	3.8
15001R	15001IQ	02/05/2015 17:43	21	4772	0.010	0.016	0.000	4.4
ARBT	15001Q	02/05/2015 18:36	192	94448	0.005	0.016	0.000	2.0
ARJB	15001Q	02/05/2015 18:36	192	80434	0.006	0.015	0.000	2.4
ARPG	15001Q	02/05/2015 18:36	192	75860	0.006	0.015	0.000	2.5
MOAT	15001Q	02/05/2015 18:36	192	28914	0.004	0.017	0.000	6.6
15001Q	15001CJ	02/05/2015 18:49	19	5082	0.011	0.013	0.001	3.7
15001Q	15001CK	02/05/2015 19:28	20	13850	0.011	0.018	0.001	1.4
15001Q	15001FP	02/05/2015 19:58	21	11019	0.011	0.017	0.001	1.9
15001Q	15001CD	02/05/2015 20:47	20	15628	0.012	0.014	0.001	1.3
MOAT	15001CD	02/05/2015 20:47	20	21986	0.012	0.013	0.001	0.9
15001Q	15001CE	02/05/2015 21:24	18	5106	0.011	0.015	0.001	3.5
ARBT	15001P	02/05/2015 22:26	93	69391	0.008	0.021	0.001	1.3
ARJB	15001P	02/05/2015 22:26	93	55336	0.007	0.022	0.000	1.7
ARPG	15001P	02/05/2015 22:26	93	60832	0.007	0.022	0.001	1.5
MOAT	15001P	02/05/2015 22:26	93	56291	0.006	0.022	0.001	1.7
15001P	15001CO	02/05/2015 22:46	20	9348	0.012	0.029	0.001	2.1
15001P	15001IS	02/05/2015 23:27	14	10351	0.013	0.014	0.001	1.4
15001P	15001IS	02/05/2015 23:47	20	10351	0.023	0.026	0.001	1.9
ARBT	ARPG	02/06/2015 13:45	614	107436	0.003	0.007	0.000	5.7
ARJB	ARBT	02/06/2015 13:45	614	81146	0.003	0.007	0.000	7.6
ARJB	ARPG	02/06/2015 13:45	614	31204	0.003	0.008	0.000	19.7
MOAT	ARBT	02/06/2015 13:45	614	111020	0.003	0.007	0.000	5.5
MOAT	ARJB	02/06/2015 13:45	614	109173	0.003	0.007	0.000	5.6
MOAT	ARPG	02/06/2015 13:45	614	104017	0.003	0.007	0.000	5.9
ARBT	15001O	02/06/2015 13:46	167	63032	0.007	0.019	0.001	2.6
ARJB	15001O	02/06/2015 13:46	167	48425	0.006	0.019	0.000	3.4
ARPG	15001O	02/06/2015 13:46	167	58056	0.006	0.019	0.001	2.9
MOAT	15001O	02/06/2015 13:46	167	65178	0.008	0.019	0.000	2.6
15001O	15001IT	02/06/2015 14:00	24	5314	0.011	0.024	0.000	4.5
15001O	15001CU	02/06/2015 14:45	20	10606	0.011	0.021	0.001	1.9
15001O	15001FQ	02/06/2015 15:19	21	5079	0.011	0.013	0.000	4.1
15001O	15001CT	02/06/2015 15:59	22	4666	0.010	0.013	0.000	4.7
15001N	ARBT	02/06/2015 17:09	410	32078	0.003	0.011	0.000	12.8
ARJB	15001N	02/06/2015 17:09	410	60253	0.004	0.011	0.000	6.8
ARPG	15001N	02/06/2015 17:09	410	81164	0.004	0.010	0.000	5.1
MOAT	15001N	02/06/2015 17:09	410	83744	0.003	0.011	0.000	4.9
15001N	15001DC	02/06/2015 17:19	19	5143	0.009	0.019	0.001	3.7
15001N	15001FS	02/06/2015 17:47	21	12361	0.012	0.020	0.001	1.7
15001N	15001CX	02/06/2015 18:17	21	14612	0.018	0.023	0.002	1.4
15001N	15001DD	02/06/2015 18:55	20	17078	0.043	0.035	0.001	1.2
ARBT	15001DD	02/06/2015 18:55	20	17099	0.011	0.014	0.001	1.2
15001N	15001FR	02/06/2015 19:32	20	12931	0.011	0.017	0.001	1.5
ARBT	15001FR	02/06/2015 19:33	19	21219	0.010	0.022	0.002	0.9
15001N	15001DE	02/06/2015 20:03	20	8111	0.011	0.018	0.001	2.5
15001N	15001IU	02/06/2015 20:32	24	4844	0.009	0.011	0.000	5.0
15001N	15001CY	02/06/2015 21:16	20	10728	0.012	0.015	0.001	1.9
15001N	15001DF	02/06/2015 21:50	21	16623	0.016	0.023	0.001	1.3

From	To	UTC Start	Dur. mins	Length meters	H Prec	V Prec	RMS	L/T Ratio
15001N	15001DI	02/06/2015 22:36	22	18571	0.021	0.039	0.001	1.2
ARBT	15001DI	02/06/2015 22:36	22	22606	0.011	0.027	0.002	1.0
15001N	15001EU	02/06/2015 23:06	15	14800	0.011	0.014	0.001	1.0
ARBT	15001EU	02/06/2015 23:06	15	28155	0.010	0.013	0.002	0.5
15001N	15001EU	02/06/2015 23:24	19	14800	0.012	0.015	0.001	1.3
ARBT	15001EU	02/06/2015 23:24	19	28155	0.011	0.013	0.001	0.7
ARJB	ARBT	02/07/2015 14:00	465	81146	0.003	0.008	0.000	5.7
ARBT	15001M	02/07/2015 14:02	219	15845	0.004	0.018	0.000	13.8
ARJB	15001M	02/07/2015 14:02	219	66188	0.005	0.016	0.000	3.3
15001M	15001DL	02/07/2015 14:15	15	9025	0.013	0.028	0.000	1.7
15001M	15001DO	02/07/2015 14:52	19	7786	0.013	0.020	0.001	2.4
15001M	15001DK	02/07/2015 15:37	19	9979	0.014	0.016	0.001	1.9
15001M	15001DH	02/07/2015 16:24	19	11301	0.011	0.019	0.001	1.7
ARBT	15001DH	02/07/2015 16:24	19	6000	0.010	0.017	0.001	3.2
15001M	15001FT	02/07/2015 16:53	19	8229	0.010	0.020	0.001	2.3
15001M	15001FU	02/07/2015 17:23	16	418	0.003	0.006	0.000	38.3
ARBT	15001L	02/07/2015 18:14	120	41632	0.004	0.018	0.001	2.9
ARJB	15001L	02/07/2015 18:14	120	39587	0.004	0.018	0.001	3.0
15001L	15001DG	02/07/2015 18:30	19	13339	0.013	0.014	0.001	1.4
15001L	15001ET	02/07/2015 19:15	20	8240	0.011	0.016	0.001	2.4
15001L	15001DJ	02/07/2015 19:50	19	2578	0.006	0.009	0.000	7.4
ARBT	15001K	02/07/2015 20:31	74	36454	0.006	0.025	0.001	2.0
ARJB	15001K	02/07/2015 20:31	74	49883	0.007	0.023	0.001	1.5
15001K	15001DN	02/07/2015 20:42	18	7059	0.013	0.014	0.001	2.5
15001K	15001DM	02/07/2015 21:16	20	1534	0.005	0.007	0.000	13.0
ARLR	15001J	02/08/2015 14:46	412	39175	0.003	0.011	0.000	10.5
15001J	15001EB	02/08/2015 14:55	19	343	0.003	0.005	0.000	55.4
15001J	15001BD	02/08/2015 15:22	20	2166	0.006	0.008	0.001	9.2
15001J	15001FC	02/08/2015 15:52	17	8622	0.013	0.017	0.001	2.0
15001J	15001BG	02/08/2015 16:20	21	10092	0.011	0.018	0.001	2.1
15001J	15001EC	02/08/2015 17:11	18	14591	0.011	0.024	0.001	1.2
15001J	15001FD	02/08/2015 17:38	21	17232	0.011	0.018	0.001	1.2
15001J	15001BJ	02/08/2015 18:13	20	19055	0.015	0.018	0.002	1.0
15001J	15001FB	02/08/2015 18:45	20	7820	0.011	0.015	0.001	2.6
15001J	15001BE	02/08/2015 19:12	16	6051	0.011	0.016	0.001	2.6
15001J	15001EA	02/08/2015 19:45	19	11776	0.011	0.017	0.001	1.6
15001J	15001BA	02/08/2015 20:13	21	11964	0.011	0.015	0.001	1.8
15001J	15001BB	02/08/2015 20:49	17	7133	0.013	0.015	0.001	2.4
15001J	15001FA	02/08/2015 21:17	16	2143	0.006	0.009	0.001	7.5
ARLR	15001I	02/08/2015 22:11	108	67885	0.006	0.020	0.001	1.6
15001I	15001BT	02/08/2015 22:34	16	10787	0.014	0.035	0.001	1.5
15001I	15001BS	02/08/2015 23:06	19	12856	0.012	0.015	0.001	1.5
15001I	15001EE	02/08/2015 23:39	17	1988	0.007	0.009	0.001	8.6
ARLR	15001H	02/09/2015 13:41	144	61900	0.006	0.018	0.000	2.3
15001H	15001BK	02/09/2015 13:55	17	8163	0.015	0.031	0.000	2.1
15001H	15001BM	02/09/2015 14:27	20	6502	0.010	0.020	0.000	3.1
15001H	15001BZ	02/09/2015 15:04	21	15520	0.029	0.020	0.001	1.4
15001H	15001ED	02/09/2015 15:35	19	8884	0.013	0.016	0.001	2.1
ARLR	15001G	02/09/2015 16:29	324	76890	0.004	0.012	0.000	4.2
15001G	15001BX	02/09/2015 16:45	21	6900	0.009	0.019	0.001	3.0
15001G	15001EG	02/09/2015 17:10	20	6782	0.010	0.022	0.001	2.9
15001C	15001G	02/09/2015 17:52	85	39652	0.007	0.034	0.001	2.1
ARLR	15001C	02/09/2015 17:52	85	37465	0.007	0.032	0.001	2.3
15001G	15001BY	02/09/2015 17:55	19	14730	0.012	0.017	0.001	1.3
15001G	15001BR	02/09/2015 18:36	19	9867	0.012	0.016	0.001	1.9
15001G	15001EF	02/09/2015 19:07	23	4341	0.008	0.012	0.001	5.3
15001G	15001BW	02/09/2015 19:45	22	8731	0.011	0.017	0.001	2.5
15001G	15001IB	02/09/2015 20:18	23	13876	0.011	0.014	0.001	1.7
15001G	15001FF	02/09/2015 20:50	19	12838	0.012	0.015	0.001	1.5
15001G	15001BQ	02/09/2015 21:17	19	14056	0.011	0.018	0.001	1.4
ARLR	15001F	02/09/2015 22:38	81	65236	0.007	0.022	0.001	1.2
15001F	15001BU	02/09/2015 22:45	19	2660	0.006	0.010	0.001	7.1
15001F	15001IA	02/09/2015 23:23	21	6307	0.012	0.015	0.001	3.3

From	To	UTC Start	Dur. mins	Length meters	H Prec	V Prec	RMS	L/T Ratio
15001F	15001BV	02/09/2015 23:59	21	7759	0.015	0.019	0.001	2.7
ARLR	15001E	02/10/2015 13:15	459	45794	0.003	0.011	0.000	10.0
15001E	15001ID	02/10/2015 13:31	21	4947	0.013	0.023	0.000	4.2
15001E	15001BO	02/10/2015 14:05	20	13897	0.011	0.024	0.001	1.4
15001E	15001IC	02/10/2015 14:37	28	11705	0.021	0.040	0.001	2.4
15001E	15001BP	02/10/2015 15:29	23	14617	0.012	0.015	0.001	1.6
15001E	15001FG	02/10/2015 16:04	21	12128	0.011	0.017	0.001	1.7
15001E	15001BN	02/10/2015 16:40	23	8366	0.009	0.021	0.001	2.7
15001E	15001BL	02/10/2015 17:25	21	14359	0.019	0.045	0.001	1.5
15001E	15001FE	02/10/2015 17:56	23	9287	0.012	0.015	0.001	2.5
15001E	15001BF	02/10/2015 18:41	21	8626	0.011	0.016	0.001	2.4
15001E	15001IF	02/10/2015 19:17	22	15154	0.011	0.019	0.001	1.5
15001E	15001IE	02/10/2015 19:50	24	10736	0.010	0.015	0.001	2.2
15001E	15001IG	02/10/2015 20:23	23	5829	0.011	0.012	0.000	3.9

All of the processed baselines had acceptable statistics.

In addition to the static observations, three stations were positioned using Real Time Kinematic methods from a nearby temporary base, which was processed as a static base. RTK observations were also made between the intervisible station pairs used to establish the woods check stations. The table below summarizes the RTK observations:

GPS BASE	GPSID	UTC Start	UTC End	Horiz Prec	Vert Prec	# of SV's	PDOP
15001IH	15001HH	01/27/2015 15:10:46	15:13:51	0.002	0.005	11	1.3
15001IJ	15001HJ	01/27/2015 23:46:21	23:49:27	0.002	0.003	8	1.3
15001II	15001HI	01/28/2015 13:57:12	14:00:17	0.002	0.003	10	0.9
15001AE	15001HK	01/28/2015 15:10:25	15:13:57	0.002	0.004	11	0.9
15001IM	15001HM	01/29/2015 15:55:31	16:00:27	0.002	0.003	12	1.2
15001IN	15001HN	01/29/2015 17:14:34	17:18:03	0.002	0.003	15	1.0
15001IL	15001HL	01/29/2015 19:15:08	19:19:13	0.004	0.006	11	1.9
15001IR	15001HR	02/04/2015 22:45:06	22:52:16	0.005	0.012	5	5.4
15001IO	15001HO	02/05/2015 14:56:13	15:01:23	0.006	0.009	7	1.7
15001IP	15001HP	02/05/2015 17:02:09	17:08:06	0.012	0.018	6	1.7
15001IP	15001HP	02/05/2015 17:16:47	17:21:17	0.007	0.012	5	4.4
15001IP	15001HP	02/05/2015 17:22:00	17:26:00	0.006	0.010	5	4.5
15001IQ	15001HQ	02/05/2015 17:48:19	17:53:16	0.007	0.010	7	1.3
15001IS	15001HS	02/05/2015 23:33:59	23:38:42	0.008	0.014	8	2.0
15001IT	15001HT	02/06/2015 14:05:32	14:11:34	0.005	0.010	6	4.7
15001IU	15001HU	02/06/2015 20:36:21	20:43:25	0.008	0.011	8	1.4
15001C	15001BC	02/09/2015 18:08:51	18:11:09	0.010	0.016	12	1.6
15001C	15001BC	02/09/2015 18:11:27	18:13:33	0.010	0.015	12	1.5
15001C	15001BH	02/09/2015 18:36:52	18:38:58	0.007	0.011	11	1.8
15001C	15001BH	02/09/2015 18:39:24	18:41:27	0.009	0.015	12	1.6
15001C	15001BI	02/09/2015 18:59:32	19:01:38	0.006	0.010	15	1.3
15001C	15001BI	02/09/2015 19:02:31	19:03:40	0.037	0.058	15	1.4
15001C	15001BI	02/09/2015 19:05:35	19:07:45	0.007	0.008	14	1.4
15001IB	15001HB	02/09/2015 20:24:02	20:28:26	0.008	0.014	8	1.4
15001IA	15001HA	02/09/2015 23:29:18	23:35:17	0.006	0.010	8	1.8
15001ID	15001HD	02/10/2015 13:37:32	13:43:47	0.006	0.009	7	2.1
15001IC	15001HC	02/10/2015 14:42:31	14:47:57	0.010	0.015	6	2.1
15001IC	15001HC	02/10/2015 14:54:37	14:59:17	0.013	0.022	5	2.3
15001IC	15001HC	02/10/2015 15:00:32	15:03:39	0.009	0.014	5	4.9
15001IF	15001HF	02/10/2015 19:21:37	19:28:15	0.006	0.010	8	1.6
15001IE	15001HE	02/10/2015 19:55:00	20:00:34	0.009	0.013	8	1.4
15001IG	15001HG	02/10/2015 20:29:08	20:37:44	0.008	0.013	7	1.3

The 21 woods check points (7 for each of the three areas) were surveyed using a total station. A single GPS station was positioned by static methods. An intervisible station was then positioned from the static station by RTK. A Trimble S6 total station was then used to survey from the pair of points to the check point in the woods.

LEAST SQUARES ADJUSTMENTS

The data was adjusted using GEOLAB, a least squares adjustment program from Microsearch Corp. The processed static baselines and RTK vectors were parsed to form an input file. No scaling of the apriori baseline statistics was done. Station errors (HI and centering) of 0.005 m were also included. Geoid separations for each station were interpolated using the GEOID12A model. Each of the three areas was adjusted separately, as there were no stations in common.

The west area (Washington County) adjustment constrained the CORS **CTA1** in all three dimensions (latitude, longitude and ellipsoidal height). The estimated variance factor for this adjustment was 1.33. The table below shows the 2-D and 1-D Station Confidence Regions (95.000 percent, in meters) for the stations in the west network:

Station	Major Semi-Axis	Azimuth	Minor Semi-Axis	Vertical
15001AA	0.038	10	0.032	0.042
15001AB	0.031	10	0.030	0.031
15001AC	0.031	177	0.030	0.033
15001AD	0.032	179	0.030	0.031
15001AE	0.030	161	0.030	0.033
15001AF	0.030	39	0.029	0.028
15001AG	0.033	172	0.030	0.040
15001AH	0.032	15	0.030	0.031
15001AI	0.030	54	0.029	0.027
15001AJ	0.030	175	0.030	0.034
15001AK	0.031	36	0.030	0.030
15001AL	0.031	6	0.030	0.032
15001AM	0.030	19	0.029	0.028
15001AN	0.032	177	0.030	0.029
15001AO	0.031	26	0.029	0.031
15001AP	0.032	38	0.030	0.050
15001AQ	0.032	171	0.030	0.042
15001AR	0.032	175	0.030	0.033
15001AS	0.031	147	0.031	0.037
15001AT	0.031	12	0.030	0.030
15001AU	0.031	176	0.029	0.032
15001AV	0.031	179	0.030	0.036
15001AW	0.031	21	0.029	0.032
15001AX	0.032	172	0.030	0.034
15001AY	0.031	171	0.030	0.032
15001AZ	0.031	66	0.031	0.043
15001EH	0.032	13	0.030	0.030
15001EI	0.031	179	0.030	0.030

Station	Major Semi-Axis	Azimuth	Minor Semi-Axis	Vertical
15001EJ	0.033	24	0.031	0.033
15001EK	0.031	170	0.030	0.033
15001EL	0.031	27	0.030	0.034
15001EM	0.031	179	0.030	0.036
15001EN	0.030	163	0.030	0.029
15001FH	0.031	2	0.030	0.038
15001FI	0.032	176	0.030	0.037
15001FJ	0.032	35	0.030	0.030
15001FK	0.032	175	0.030	0.030
15001FL	0.032	30	0.031	0.043
15001FM	0.032	34	0.031	0.045
15001FN	0.029	175	0.029	0.029
15001GH	0.035	18	0.031	0.047
15001GI	0.051	49	0.030	0.038
15001GJ	0.064	4	0.038	0.052
15001GK	0.120	65	0.031	0.042
15001GL	0.065	116	0.033	0.043
15001GM	0.058	64	0.034	0.045
15001GN	0.048	161	0.030	0.040
15001HH	0.037	159	0.031	0.041
15001HI	0.036	7	0.029	0.031
15001HJ	0.042	15	0.038	0.046
15001HK	0.036	17	0.031	0.037
15001HL	0.037	88	0.032	0.037
15001HM	0.040	33	0.032	0.039
15001HN	0.036	26	0.030	0.033
15001IH	0.031	165	0.030	0.037
15001II	0.029	18	0.029	0.026
15001IJ	0.039	55	0.035	0.044
15001IL	0.032	38	0.030	0.032
15001IM	0.035	14	0.031	0.035
15001IN	0.029	1	0.029	0.028
15001W	0.020	15	0.020	0.020
15001X	0.020	81	0.020	0.019
15001Y	0.020	80	0.020	0.019
15001Z	0.021	171	0.020	0.024

The south area (Jefferson County) adjustment constrained the CORS **ARLR** in all three dimensions (latitude, longitude and ellipsoidal height). The estimated variance factor for this adjustment was 0.75. The table below shows the 2-D and 1-D Station Confidence Regions (95.000 percent, in meters) for the stations in the south network:

Station	Major Semi-Axis	Azimuth	Minor Semi-Axis	Vertical
15001BA	0.023	2	0.022	0.023
15001BB	0.024	168	0.023	0.024
15001BC	0.022	26	0.019	0.031
15001BD	0.022	18	0.022	0.021
15001BE	0.023	28	0.022	0.024
15001BF	0.023	34	0.022	0.024
15001BG	0.023	175	0.022	0.025
15001BH	0.020	33	0.019	0.030
15001BI	0.018	51	0.017	0.027
15001BJ	0.025	16	0.023	0.025
15001BK	0.025	165	0.023	0.035
15001BL	0.027	136	0.023	0.044
15001BM	0.023	172	0.023	0.029
15001BN	0.023	167	0.022	0.026
15001BO	0.023	161	0.023	0.028
15001BP	0.024	18	0.022	0.023
15001BQ	0.022	156	0.021	0.025
15001BR	0.022	32	0.021	0.024
15001BS	0.024	68	0.023	0.027
15001BT	0.025	17	0.024	0.038
15001BU	0.022	168	0.022	0.027
15001BV	0.025	35	0.023	0.030
15001BW	0.022	8	0.021	0.024
15001BX	0.021	164	0.021	0.025
15001BY	0.022	10	0.021	0.024
15001BZ	0.033	171	0.023	0.029
15001C	0.013	25	0.013	0.023
15001E	0.015	69	0.015	0.015
15001EA	0.023	13	0.022	0.025
15001EB	0.021	7	0.021	0.020
15001EC	0.023	172	0.023	0.028
15001ED	0.025	16	0.023	0.027
15001EE	0.022	54	0.022	0.025
15001EF	0.021	26	0.020	0.022
15001EG	0.021	171	0.021	0.027
15001F	0.016	157	0.016	0.023
15001FA	0.022	156	0.022	0.021
15001FB	0.023	34	0.022	0.023
15001FC	0.024	15	0.023	0.024
15001FD	0.023	171	0.023	0.025
15001FE	0.024	16	0.023	0.023

Station	Major Semi-Axis	Azimuth	Minor Semi-Axis	Vertical
15001FF	0.022	169	0.021	0.023
15001FG	0.023	1	0.022	0.024
15001G	0.013	178	0.013	0.015
15001GA	0.036	5	0.024	0.035
15001GB	0.048	70	0.023	0.031
15001GC	0.029	13	0.024	0.044
15001GD	0.027	116	0.024	0.035
15001GE	0.031	115	0.024	0.031
15001GF	0.028	10	0.023	0.032
15001GG	0.028	173	0.023	0.030
15001H	0.016	177	0.016	0.020
15001HA	0.028	79	0.024	0.031
15001HB	0.026	62	0.022	0.025
15001HC	0.030	4	0.024	0.041
15001HD	0.028	127	0.024	0.030
15001HE	0.028	148	0.023	0.026
15001HF	0.027	140	0.023	0.028
15001HG	0.028	0	0.023	0.025
15001I	0.016	117	0.015	0.021
15001IA	0.024	44	0.023	0.029
15001IB	0.022	179	0.021	0.023
15001IC	0.028	12	0.024	0.040
15001ID	0.024	169	0.022	0.028
15001IE	0.023	6	0.022	0.023
15001IF	0.023	24	0.022	0.025
15001IG	0.023	177	0.022	0.022
15001J	0.015	79	0.015	0.015

The north area (Lower Black Watershed) adjustment constrained the four CORS **ARBT**, **ARJB**, **ARPG**, and **MOAT** in all three dimensions (latitude, longitude and ellipsoidal height). The estimated variance factor for this adjustment was 0.88. The table below shows the 2-D and 1-D Station Confidence Regions (95.000 percent, in meters) for the stations in the north network:

Station	Major Semi-Axis	Azimuth	Minor Semi-Axis	Vertical
15001CA	0.015	155	0.013	0.019
15001CB	0.022	15	0.020	0.021
15001CC	0.020	172	0.019	0.021
15001CD	0.015	176	0.013	0.013
15001CE	0.021	172	0.020	0.021
15001CF	0.021	1	0.020	0.023
15001CG	0.021	167	0.020	0.022

Station	Major Semi-Axis	Azimuth	Minor Semi-Axis	Vertical
15001CH	0.022	160	0.020	0.028
15001CI	0.021	26	0.020	0.021
15001CJ	0.021	30	0.019	0.020
15001CK	0.021	26	0.019	0.024
15001CL	0.021	59	0.020	0.022
15001CM	0.023	169	0.020	0.029
15001CN	0.020	25	0.019	0.020
15001CO	0.021	15	0.021	0.032
15001CP	0.021	178	0.020	0.024
15001CQ	0.020	172	0.019	0.021
15001CR	0.022	14	0.020	0.022
15001CS	0.022	16	0.020	0.022
15001CT	0.021	13	0.019	0.021
15001CU	0.021	177	0.020	0.026
15001CV	0.021	19	0.019	0.023
15001CW	0.022	22	0.021	0.037
15001CX	0.024	21	0.020	0.026
15001CY	0.021	164	0.020	0.021
15001CZ	0.021	5	0.020	0.022
15001DA	0.021	86	0.020	0.028
15001DB	0.022	174	0.020	0.021
15001DC	0.020	171	0.019	0.023
15001DD	0.017	54	0.013	0.016
15001DE	0.020	8	0.019	0.022
15001DF	0.023	59	0.020	0.026
15001DG	0.023	29	0.022	0.024
15001DH	0.014	178	0.014	0.016
15001DI	0.015	19	0.014	0.023
15001DJ	0.021	15	0.020	0.022
15001DK	0.024	17	0.021	0.024
15001DL	0.023	163	0.022	0.032
15001DM	0.021	171	0.021	0.024
15001DN	0.024	176	0.022	0.026
15001DO	0.023	3	0.021	0.026
15001EO	0.021	32	0.019	0.020
15001EP	0.021	7	0.019	0.022
15001EQ	0.020	103	0.020	0.028
15001ER	0.021	58	0.020	0.023
15001ES	0.021	163	0.020	0.023
15001ET	0.022	27	0.021	0.025
15001EU	0.010	53	0.010	0.010

Station	Major Semi-Axis	Azimuth	Minor Semi-Axis	Vertical
15001FO	0.022	163	0.020	0.030
15001FP	0.021	9	0.019	0.023
15001FQ	0.021	9	0.020	0.021
15001FR	0.014	29	0.013	0.016
15001FS	0.021	166	0.020	0.024
15001FT	0.022	168	0.021	0.026
15001FU	0.020	6	0.020	0.019
15001GO	0.030	41	0.022	0.034
15001GP	0.024	35	0.020	0.030
15001GQ	0.043	159	0.021	0.031
15001GR	0.035	128	0.022	0.048
15001GS	0.024	177	0.018	0.030
15001GT	0.035	176	0.021	0.037
15001GU	0.040	145	0.020	0.029
15001HO	0.026	108	0.022	0.028
15001HP	0.021	74	0.020	0.024
15001HQ	0.026	173	0.020	0.025
15001HR	0.027	136	0.022	0.044
15001HS	0.024	160	0.019	0.023
15001HT	0.027	167	0.020	0.031
15001HU	0.026	159	0.020	0.022
15001IO	0.021	173	0.020	0.026
15001IP	0.020	164	0.019	0.022
15001IQ	0.020	171	0.019	0.022
15001IR	0.021	10	0.021	0.042
15001IS	0.018	41	0.016	0.020
15001IT	0.021	164	0.019	0.029
15001IU	0.020	0	0.019	0.018
15001K	0.012	179	0.012	0.019
15001L	0.012	28	0.012	0.015
15001M	0.011	25	0.011	0.013
15001N	0.007	49	0.007	0.007
15001O	0.009	6	0.008	0.011
15001P	0.009	100	0.009	0.012
15001Q	0.008	161	0.008	0.009
15001R	0.008	159	0.008	0.009
15001S	0.008	151	0.008	0.011
15001T	0.008	34	0.008	0.011
15001U	0.008	16	0.008	0.010
15001V	0.009	60	0.008	0.011

SUMMARY

Ninety-three LiDAR ground control points and sixty-three check points were positioned at three areas in Arkansas and southern Missouri. The estimated accuracy of the adjusted coordinates is ± 0.05 m with respect to the NAD 1983 (NRS2011) and NAVD 1988 datums.

Washington County Site

Adjusted Coordinates – NAD 1983 (NSRS2011)/NAVD 1988

UTM Zone 15

NAVD 1988 orthometric height = Ellipsoidal Height + GEOID12A

Station Name	GPSID	Latitude	Longitude	UTM N meters	UTM E meters	Ellip H meters
GCP01	15001AA	36°11'54.19585 N	94°19'17.15239 W	4006762.088	381198.340	302.738
GCP02	15001AB	36°13'44.77075 N	93°59'01.05389 W	4009808.281	411603.925	382.987
GCP03	15001AC	36°11'04.48127 N	93°54'54.60181 W	4004809.203	417709.723	394.949
GCP04	15001AD	36°09'20.65406 N	94°14'15.20939 W	4001931.577	388678.886	363.152
GCP05	15001AE	36°08'00.51214 N	94°21'31.02306 W	3999607.752	377754.185	280.935
GCP06	15001AF	36°06'44.49049 N	94°07'09.07246 W	3996990.626	399271.661	362.074
GCP07	15001AG	36°06'40.98428 N	93°58'13.33200 W	3996738.630	412664.722	382.580
GCP08	15001AH	36°05'55.44452 N	94°28'29.40964 W	3995906.510	367237.902	303.473
GCP09	15001AI	36°05'43.57252 N	94°19'56.91287 W	3995355.682	380048.651	330.462
GCP10	15001AJ	36°03'47.90951 N	94°32'02.18433 W	3992059.048	361855.098	321.740
GCP11	15001AK	35°58'32.33265 N	94°28'58.56743 W	3982263.989	366300.813	335.731
GCP12	15001AL	36°00'29.78459 N	94°19'15.63137 W	3985673.030	380949.776	329.918
GCP13	15001AM	36°03'38.01713 N	94°04'11.81805 W	3991195.158	403640.047	347.402
GCP14	15001AN	36°00'15.08433 N	93°58'00.08999 W	3984845.263	412877.699	407.920
GCP15	15001AO	35°55'31.71724 N	94°19'25.76793 W	3976492.418	380571.358	411.079
GCP16	15001AP	35°56'56.90352 N	94°05'47.35599 W	3978862.889	401110.855	404.012
GCP17	15001AQ	35°54'01.02177 N	94°29'04.83685 W	3973906.601	366016.624	307.666
GCP18	15001AR	35°53'31.30149 N	94°12'32.09869 W	3972647.789	390892.366	486.623
GCP19	15001AS	35°52'29.86510 N	93°59'11.12340 W	3970529.334	410954.505	498.751
GCP20	15001AT	35°48'33.89588 N	94°21'17.63328 W	3963657.107	377589.482	313.830
GCP21	15001AU	35°49'08.98146 N	94°04'52.27384 W	3964430.461	402331.342	534.929
GCP22	15001AV	35°46'49.63222 N	94°29'00.02116 W	3960612.762	365935.815	409.591
GCP23	15001AW	35°45'45.87870 N	94°17'24.79171 W	3958401.390	383365.085	447.355
GCP24	15001AX	35°47'22.31861 N	93°58'34.85727 W	3961044.645	411769.382	664.245
GCP25	15001AY	36°01'28.78124 N	94°11'45.45572 W	3987345.268	392242.112	367.001
GCP03A	15001AZ	36°10'34.72243 N	93°57'34.24667 W	4003930.796	413713.048	385.464
TALL1	15001EH	36°12'43.33778 N	93°54'52.46404 W	4007854.650	417791.837	394.859
TALL6	15001EI	35°59'16.58873 N	94°17'59.03772 W	3983391.927	382837.213	315.671
TALL5	15001EJ	36°01'14.53450 N	94°23'35.36323 W	3987142.450	374467.101	316.404
TALL4	15001EK	36°03'53.64146 N	94°25'41.18684 W	3992090.592	371389.491	393.627
TALL3	15001EL	36°05'42.47917 N	94°31'58.70777 W	3995587.962	361997.713	288.597
TALL7	15001EM	35°53'44.54550 N	94°17'08.82452 W	3973144.420	383959.830	373.876
TALL2	15001EN	35°59'01.75844 N	94°00'21.43695 W	3982621.827	409315.724	351.295
OPEN4	15001FH	36°09'17.44490 N	94°11'02.64060 W	4001772.692	393489.559	382.459
OPEN7	15001FI	35°52'06.32902 N	94°24'13.39901 W	3970264.684	373272.049	328.768
OPEN5	15001FJ	36°04'38.89147 N	94°11'47.71330 W	3993203.632	392257.611	350.542
OPEN6	15001FK	36°02'34.54408 N	94°14'05.80737 W	3989415.389	388754.889	340.594

Station Name	GPSID	Latitude	Longitude	UTM N meters	UTM E meters	Ellip H meters
OPEN3	15001FL	35°53'34.92194 N	94°02'23.76024 W	3972583.839	406145.242	400.240
OPEN2	15001FM	35°51'34.51237 N	94°00'12.63099 W	3968839.591	409394.632	427.885
OPEN1	15001FN	35°47'24.10251 N	94°06'20.61302 W	3961223.856	400078.077	606.542
WOODS1	15001GH	36°09'42.29797 N	94°00'10.70167 W	4002355.010	409787.999	325.709
WOODS3	15001GI	36°05'31.44519 N	94°22'30.41602 W	3995035.450	376204.651	321.299
WOODS2	15001GJ	36°00'04.02840 N	94°08'15.95549 W	3984671.085	397455.256	375.080
WOODS4	15001GK	36°08'02.31248 N	94°21'32.07951 W	3999663.595	377728.555	281.895
WOODS7	15001GL	35°46'35.85558 N	94°15'14.04627 W	3959898.608	386668.092	274.196
WOODS5	15001GM	35°45'48.33324 N	94°25'17.31984 W	3958641.160	371499.831	468.500
WOODS6	15001GN	35°50'06.30830 N	94°17'18.91706 W	3966423.563	383618.189	465.648

Arkansas North Zone State Plane Coordinates NAD 1983 (NSRS2011)/NAVD 1988

Station Name	GPSID	SPC N meters	SPC E meters	NAVD88 meters	SPC N US ft	SPC E US ft	NAVD88 US ft
GCP01	15001AA	209379.410	191237.441	330.914	686938.949	627418.170	1085.674
GCP02	15001AB	212122.847	221679.909	411.050	695939.708	727294.833	1348.587
GCP03	15001AC	207061.361	227737.211	422.955	679333.815	747167.834	1387.645
GCP04	15001AD	204473.470	198671.150	391.276	670843.375	651806.930	1283.711
GCP05	15001AE	202258.255	187721.453	309.145	663575.625	615882.801	1014.253
GCP06	15001AF	199425.665	209216.578	390.126	654282.370	686404.722	1279.938
GCP07	15001AG	199039.393	222610.046	410.586	653015.076	730346.460	1347.064
GCP08	15001AH	198661.380	177166.914	331.809	651774.879	581255.118	1088.610
GCP09	15001AI	197982.656	189973.824	358.653	649548.097	623272.453	1176.681
GCP10	15001AJ	194867.212	171745.223	350.152	639326.843	563467.454	1148.790
GCP11	15001AK	185026.874	176093.449	364.116	607042.337	577733.256	1194.604
GCP12	15001AL	188289.603	190778.223	358.119	617746.805	625911.553	1174.929
GCP13	15001AM	193585.234	213527.776	375.435	635120.887	700549.046	1231.740
GCP14	15001AN	187141.198	222703.606	435.915	613979.082	730653.415	1430.164
GCP15	15001AO	179111.567	190307.663	439.282	587635.198	624367.725	1441.211
GCP16	15001AP	181275.963	210874.214	432.027	594736.223	691843.151	1417.409
GCP17	15001AQ	176671.632	175725.451	336.117	579630.179	576525.917	1102.744
GCP18	15001AR	175162.623	200591.464	514.721	574679.373	658107.160	1688.714
GCP19	15001AS	172841.647	220635.818	526.733	567064.638	723869.347	1728.123
GCP20	15001AT	166304.752	187196.285	342.204	545618.173	614159.812	1122.714
GCP21	15001AU	166828.638	211949.492	562.994	547336.956	695370.959	1847.089
GCP22	15001AV	163377.621	175510.888	438.172	536014.744	575821.971	1437.569
GCP23	15001AW	160990.154	192919.524	475.793	528181.865	632936.806	1560.998
GCP24	15001AX	163346.855	221355.085	692.294	535913.805	726229.140	2271.301
GCP25	15001AY	189848.926	202089.074	395.084	622862.686	663020.572	1296.205
GCP03A	15001AZ	206222.780	223730.726	413.485	676582.571	734023.222	1356.575

Station Name	GPSID	SPC N meters	SPC E meters	NAVD88 meters	SPC N US ft	SPC E US ft	NAVD88 US ft
TALL1	15001EH	210106.777	227849.862	422.884	689325.316	747537.421	1387.412
TALL6	15001EI	185989.264	192643.062	343.855	610199.777	632029.780	1128.131
TALL5	15001EJ	189824.115	184309.418	344.666	622781.284	604688.482	1130.792
TALL4	15001EK	194803.609	181280.902	421.904	639118.174	594752.427	1384.197
TALL3	15001EL	198395.017	171923.025	316.998	650900.984	564050.791	1040.018
TALL7	15001EM	175729.074	193662.928	402.052	576537.804	635375.789	1319.066
TALL2	15001EN	184953.114	219118.507	379.312	606800.342	718891.302	1244.459
OPEN4	15001FH	204266.513	203481.148	410.545	670164.386	667587.733	1346.930
OPEN7	15001FI	172956.487	182944.933	357.113	567441.406	600211.833	1171.628
OPEN5	15001FJ	195708.165	202163.271	378.632	642085.871	663263.999	1242.228
OPEN6	15001FK	191954.345	198622.010	368.712	629770.214	651645.711	1209.683
OPEN3	15001FL	174945.044	215846.328	428.241	573965.533	708155.827	1404.987
OPEN2	15001FM	171167.305	219058.590	455.876	561571.401	718694.722	1495.653
OPEN1	15001FN	163644.234	209663.460	634.700	536889.457	687870.870	2082.345
WOODS1	15001GH	204685.929	219788.943	353.747	671540.418	721090.891	1160.585
WOODS3	15001GI	197700.764	186126.078	349.520	648623.255	610648.641	1146.717
WOODS2	15001GJ	187121.963	207276.311	403.127	613915.972	680039.031	1322.592
WOODS4	15001GK	202314.362	187696.376	310.106	663759.703	615800.526	1017.406
WOODS7	15001GL	162454.210	196238.071	302.555	532985.186	643824.403	992.633
WOODS5	15001GM	161349.738	181055.450	497.042	529361.598	594012.756	1630.712
WOODS6	15001GN	169010.775	193253.585	493.881	554496.186	634032.804	1620.341

Jefferson County Site

Adjusted Coordinates – NAD 1983 (NSRS2011)/NAVD 1988

UTM Zone 15

NAVD 1988 height = Ellipsoidal Height + GEOID12A

Station Name	GPSID	Latitude	Longitude	UTM N meters	UTM E meters	Ellip H meters
GCP26	15001BA	34°35'02.87065 N	92°01'04.17894 W	3827364.583	590077.530	43.976
GCP27	15001BB	34°31'57.55571 N	91°59'21.99497 W	3821681.844	592737.952	41.959
GCP28	15001BC	34°28'32.93835 N	92°12'26.68703 W	3815200.559	572783.899	47.046
GCP29	15001BD	34°28'33.09678 N	92°03'03.61415 W	3815329.020	587147.467	42.620
GCP30	15001BE	34°28'25.22096 N	91°57'42.02154 W	3815166.959	595353.668	42.331
GCP31	15001BF	34°23'10.54592 N	92°09'51.89052 W	3805301.728	576814.525	79.252
GCP32	15001BG	34°23'11.60142 N	92°00'41.62352 W	3805460.575	590866.194	40.239
GCP33	15001BH	34°19'13.30666 N	92°12'14.71491 W	3797964.881	573224.586	68.468
GCP34	15001BI	34°18'57.90189 N	92°06'32.48036 W	3797562.975	581975.062	52.963
GCP35	15001BJ	34°20'09.14696 N	91°54'30.83802 W	3799937.447	600395.351	38.758
GCP36	15001BK	34°20'39.83040 N	91°45'21.75574 W	3801043.922	614414.320	30.776
GCP37	15001BL	34°17'41.60027 N	91°59'17.62576 W	3795316.724	593112.499	38.092
GCP38	15001BM	34°17'14.43648 N	91°48'22.70201 W	3794661.579	609865.408	32.022
GCP39	15001BN	34°14'06.48708 N	92°08'30.48453 W	3788560.829	579034.851	60.847
GCP40	15001BO	34°12'35.42396 N	92°13'58.17585 W	3785689.041	570672.899	50.698
GCP41	15001BP	34°10'46.72927 N	92°07'29.55170 W	3782421.191	580646.494	66.115
GCP42	15001BQ	34°11'43.53267 N	92°00'02.87459 W	3784275.938	592063.979	41.968
GCP43	15001BR	34°12'27.42804 N	91°51'59.69151 W	3785757.402	604415.980	35.208
GCP44	15001BS	34°13'27.02876 N	91°41'40.54381 W	3787782.929	620237.529	31.016
GCP44A	15001BZ	34°16'41.67547 N	91°41'28.08337 W	3793782.855	620479.252	29.058
GCP45	15001BT	34°11'13.85902 N	91°46'25.40345 W	3783590.305	612998.214	38.479
GCP46	15001BV	34°04'38.13218 N	92°11'18.20422 W	3771019.534	574883.435	48.989
GCP47	15001BU	34°06'17.19762 N	92°06'33.73521 W	3774131.568	582147.785	46.523
GCP48	15001BW	34°06'01.08095 N	91°58'14.90681 W	3773755.219	594933.760	40.808
GCP49	15001BX	34°06'05.74104 N	91°48'26.18408 W	3774062.772	610017.394	31.208
GCP50	15001BY	34°07'38.90790 N	91°43'10.56903 W	3777030.455	618068.686	31.448
OPEN1	15001FC	34°24'55.97559 N	92°05'07.94215 W	3808611.814	584036.307	41.420
OPEN2	15001FD	34°19'16.53505 N	92°01'50.94485 W	3798202.782	589165.075	38.915
OPEN3	15001FB	34°26'26.46911 N	91°57'15.08901 W	3811516.047	596078.510	41.274
OPEN4	15001FA	34°29'25.09997 N	92°00'39.69129 W	3816966.053	590803.221	41.742
OPEN5	15001FF	34°09'52.61456 N	92°00'25.34630 W	3780853.810	591522.089	41.953
OPEN6	15001FG	34°12'56.09165 N	92°04'40.15971 W	3786444.013	584946.748	43.221
OPEN7	15001FE	34°15'48.09814 N	92°03'35.10462 W	3791757.403	586562.482	44.047
TALL1	15001EB	34°28'41.26610 N	92°01'50.42190 W	3815598.358	589012.158	40.375
TALL2	15001EC	34°20'59.27017 N	91°59'06.59610 W	3801408.329	593333.653	38.578
TALL3	15001EA	34°34'36.49192 N	91°59'06.60475 W	3826581.644	593081.096	42.481
TALL4	15001EE	34°15'32.37707 N	91°49'10.64665 W	3791503.510	608676.061	34.743

Station Name	GPSID	Latitude	Longitude	UTM N meters	UTM E meters	Ellip H meters
TALL5	15001ED	34°18'27.90340 N	91°45'15.51132 W	3796982.030	614623.698	30.109
TALL6	15001EG	34°07'40.72732 N	91°48'22.32885 W	3776989.743	610081.983	31.468
TALL7	15001EF	34°08'59.78982 N	91°54'29.49632 W	3779319.783	600650.742	33.375
WOODS1	15001GB	34°04'57.50826 N	92°01'22.13567 W	3771749.982	590155.030	54.049
WOODS2	15001GA	34°07'47.09461 N	92°11'37.24759 W	3776835.925	574349.428	49.847
WOODS3	15001GD	34°16'37.57948 N	92°10'51.53870 W	3793185.047	575388.912	85.431
WOODS4	15001GC	34°12'41.01745 N	92°11'13.84848 W	3785893.929	574876.634	58.899
WOODS5	15001GF	34°26'21.62449 N	92°11'55.00967 W	3811162.082	573623.973	80.412
WOODS6	15001GE	34°23'51.84875 N	92°11'33.35788 W	3806552.977	574213.283	69.678
WOODS7	15001GG	34°20'49.15953 N	92°11'13.49097 W	3800929.752	574765.622	94.304

Arkansas South Zone State Plane Coordinates NAD 1983 (NSRS2011)/NAVD 1988

Station Name	GPSID	SPC N meters	SPC E meters	NAVD88 meters	SPC N US ft	SPC E US ft	NAVD88 US ft
GCP26	15001BA	612674.848	398364.429	70.309	2010084.064	1306967.298	230.672
GCP27	15001BB	606964.580	400969.130	68.237	1991349.625	1315512.886	223.874
GCP28	15001BC	600678.991	380946.692	73.183	1970727.655	1249822.605	240.101
GCP29	15001BD	600665.738	395314.694	68.797	1970684.174	1296961.624	225.711
GCP30	15001BE	600422.555	403520.905	68.557	1969886.334	1323884.837	224.924
GCP31	15001BF	590738.220	384880.696	105.296	1938113.642	1262729.417	345.459
GCP32	15001BG	590758.660	398936.768	66.362	1938180.704	1308845.047	217.723
GCP33	15001BH	583435.099	381217.809	94.482	1914153.322	1250712.095	309.980
GCP34	15001BI	582947.080	389966.154	79.000	1912552.211	1279413.958	259.186
GCP35	15001BJ	585140.647	408413.137	64.902	1919748.940	1339935.435	212.933
GCP36	15001BK	586109.034	422445.004	57.022	1922926.057	1385971.651	187.080
GCP37	15001BL	580590.859	401083.577	64.169	1904821.844	1315888.370	210.528
GCP38	15001BM	579770.723	417832.599	58.182	1902131.114	1370839.119	190.885
GCP39	15001BN	573972.025	386936.917	86.828	1883106.553	1269475.534	284.868
GCP40	15001BO	571181.672	378545.065	76.694	1873951.868	1241943.267	251.620
GCP41	15001BP	567815.372	388488.654	92.049	1862907.600	1274566.524	301.997
GCP42	15001BQ	569558.482	399926.406	67.959	1868626.453	1312091.884	222.962
GCP43	15001BR	570918.928	412294.869	61.259	1873089.849	1352670.751	200.981
GCP44	15001BS	572789.217	428138.213	57.163	1879225.955	1404650.121	187.542
GCP44A	15001BZ	578787.356	428439.016	55.266	1898904.851	1405637.005	181.319
GCP45	15001BT	568667.277	420856.928	64.545	1865702.559	1380761.436	211.761
GCP46	15001BV	556467.891	382612.820	74.919	1825678.406	1255288.893	245.797
GCP47	15001BU	559509.463	389909.034	72.424	1835657.296	1279226.554	237.611
GCP48	15001BW	559007.905	402693.556	66.710	1834011.768	1321170.441	218.864
GCP49	15001BX	559167.836	417782.337	57.129	1834536.476	1370674.216	187.431
GCP50	15001BY	562056.977	425863.596	57.475	1844015.264	1397187.481	188.566
OPEN1	15001FC	593977.853	392136.610	67.527	1948742.339	1286534.863	221.545

Station Name	GPSID	SPC N meters	SPC E meters	NAVD88 meters	SPC N US ft	SPC E US ft	NAVD88 US ft
OPEN2	15001FD	583516.275	397163.843	64.990	1914419.645	1303028.376	213.221
OPEN3	15001FB	596763.809	404209.801	67.474	1957882.595	1326144.990	221.371
OPEN4	15001FA	602266.980	398987.365	67.956	1975937.585	1309011.046	222.952
OPEN5	15001FF	566141.088	399350.861	67.912	1857414.551	1310203.615	222.808
OPEN6	15001FG	571796.781	392829.181	69.196	1875969.938	1288807.071	227.021
OPEN7	15001FE	577095.295	394497.390	70.068	1893353.480	1294280.186	229.881
TALL1	15001EB	600916.710	397182.425	66.565	1971507.574	1303089.340	218.389
TALL2	15001EC	586681.357	401364.741	64.692	1924803.751	1316810.820	212.244
TALL3	15001EA	611861.981	401360.871	68.823	2007417.183	1316798.125	225.797
TALL4	15001EE	576623.945	416612.012	60.869	1891807.060	1366834.575	199.701
TALL5	15001ED	582044.585	422614.346	56.318	1909591.277	1386527.234	184.770
TALL6	15001EG	562094.532	417875.605	57.429	1844138.478	1370980.214	188.415
TALL7	15001EF	564517.325	408465.925	59.337	1852087.256	1340108.624	194.675
WOODS1	15001GB	557049.098	397894.413	79.943	1827585.248	1305425.252	262.280
WOODS2	15001GA	562290.687	382135.619	75.798	1844782.030	1253723.275	248.681
WOODS3	15001GD	578632.983	383335.634	111.432	1898398.380	1257660.325	365.590
WOODS4	15001GC	571345.381	382751.691	84.873	1874488.970	1255744.507	278.454
WOODS5	15001GF	596631.300	381747.156	106.488	1957447.856	1252448.794	349.369
WOODS6	15001GE	592015.353	382291.202	95.721	1942303.703	1254233.719	314.045
WOODS7	15001GG	586385.461	382788.328	120.326	1923832.968	1255864.706	394.770

Lower Black Watershed Site

Adjusted Coordinates – NAD 1983 (NSRS2011)/NAVD 1988

UTM Zone 15

NAVD 1988 height = Ellipsoidal Height + GEOID12A

Station Name	GPSID	Latitude	Longitude	UTM N Meters	UTM E meters	Ellip H meters
GCP51	15001CA	36°40'19.12684 N	91°06'00.13472 W	4060166.620	669783.603	210.862
GCP52	15001CB	36°38'20.10768 N	90°55'17.46301 W	4056829.540	685817.831	151.423
GCP53	15001CC	36°34'37.64697 N	91°05'24.04895 W	4049660.750	670888.805	138.143
GCP54	15001CD	36°29'30.71279 N	91°21'26.36941 W	4039760.201	647131.549	208.052
GCP55	15001CE	36°30'04.32485 N	91°14'03.98694 W	4040990.766	658120.059	123.642
GCP56	15001CF	36°28'57.94045 N	91°03'00.62073 W	4039263.396	674665.990	124.237
GCP57	15001CG	36°30'13.79515 N	90°55'15.84838 W	4041842.986	686182.089	111.475
GCP58	15001CH	36°29'30.77441 N	90°46'27.77091 W	4040810.868	699351.523	62.729
GCP59	15001CI	36°29'14.12581 N	90°35'04.46719 W	4040707.543	716368.466	60.047
GCP60	15001CJ	36°26'18.63712 N	91°12'20.88496 W	4034083.273	660814.695	131.793
GCP61	15001CK	36°21'52.94102 N	91°14'26.73059 W	4025837.843	657830.418	95.065
GCP62	15001CL	36°21'14.13915 N	91°05'39.56146 W	4024891.343	670992.899	73.818
GCP63	15001CM	36°21'20.42012 N	90°55'27.25554 W	4025399.392	686252.071	76.328
GCP64	15001CN	36°23'34.22680 N	90°43'50.89840 W	4029913.512	703513.899	59.483
GCP65	15001CO	36°15'57.09369 N	91°14'49.24451 W	4014861.999	657468.054	143.224
GCP66	15001CP	36°14'38.87680 N	91°04'26.84522 W	4012746.716	673047.989	70.861
GCP67	15001CQ	36°19'15.55075 N	90°49'26.88623 W	4021748.833	695321.884	55.809
GCP68	15001CR	36°13'23.06703 N	90°55'52.20955 W	4010675.376	685944.550	52.842
GCP69	15001CS	36°12'42.23767 N	90°50'42.12683 W	4009585.848	693715.264	55.706
GCP70	15001CT	36°08'01.02441 N	91°06'21.73259 W	4000430.063	670419.518	74.456
GCP71	15001CU	36°04'15.07745 N	91°15'02.66417 W	3993223.397	657523.063	84.478
GCP72	15001CV	36°02'04.32683 N	91°05'00.23447 W	3989478.256	672673.397	51.373
GCP73	15001CW	36°05'16.05069 N	90°55'44.19355 W	3995671.470	686464.909	53.301
GCP74	15001CX	35°57'30.50049 N	91°33'54.94958 W	3980293.772	629381.360	167.742
GCP75	15001CY	35°54'46.19366 N	91°17'24.72701 W	3975630.711	654276.646	52.871
GCP76	15001CZ	35°55'14.71981 N	91°05'37.38280 W	3976838.031	671990.413	50.007
GCP77	15001DA	35°58'52.56057 N	91°01'24.24347 W	3983676.997	678199.336	50.818
GCP78	15001DB	35°56'51.16698 N	90°56'17.58067 W	3980095.269	685959.173	51.741
GCP79	15001DC	35°56'25.24934 N	91°27'45.05141 W	3978424.363	638679.438	129.860
GCP80	15001DD	35°51'21.25517 N	91°34'05.31111 W	3968912.710	629288.578	129.977
GCP81	15001DE	35°51'43.07498 N	91°24'12.67288 W	3969815.205	644143.155	99.087
GCP82	15001DF	35°51'03.53942 N	91°15'12.57535 W	3968828.572	657711.848	42.187
GCP83	15001DG	35°53'07.37432 N	91°09'13.58619 W	3972809.842	666645.514	48.499
GCP84	15001DH	35°44'03.51106 N	91°34'09.78930 W	3955423.460	629373.264	58.524
GCP85	15001DI	35°46'05.62858 N	91°23'20.78237 W	3959438.973	645615.789	62.421
GCP86	15001DJ	35°44'52.73045 N	91°09'21.36298 W	3957564.329	666737.677	44.875
GCP87	15001DK	35°41'27.46087 N	91°33'52.78797 W	3950621.599	629870.690	49.168

Station Name	GPSID	Latitude	Longitude	UTM N Meters	UTM E meters	Ellip H meters
GCP88	15001DL	35°38'15.67395 N	91°22'58.85207 W	3944967.783	646405.045	40.534
GCP89	15001DM	35°37'40.23269 N	91°14'44.39837 W	3944089.010	658861.520	43.405
GCP90	15001DN	35°37'59.52747 N	91°09'27.95333 W	3944829.130	666811.050	43.331
GCP87A	15001DO	35°38'10.98099 N	91°30'10.49588 W	3944651.237	635550.338	46.347
TALL3	15001EO	36°27'23.32899 N	90°41'07.58700 W	4037070.904	707413.618	59.695
TALL4	15001EP	36°23'27.98883 N	90°47'07.33193 W	4029607.580	698623.896	57.513
TALL5	15001EQ	36°24'58.60949 N	90°52'28.28089 W	4032220.545	690565.431	80.135
TALL2	15001ER	36°08'31.91878 N	90°59'49.41907 W	4001578.840	680206.776	53.074
TALL1	15001ES	35°57'34.36549 N	90°58'52.69347 W	3981345.166	682044.964	50.394
TALL7	15001ET	35°46'15.98751 N	91°15'52.11816 W	3959950.535	656876.956	45.112
TALL6	15001EU	35°48'42.25894 N	91°20'36.24596 W	3964334.051	649665.959	74.252
OPEN1	15001FO	36°16'42.05080 N	90°58'47.79172 W	4016714.919	681432.442	88.941
OPEN2	15001FP	36°24'41.49908 N	91°16'18.35057 W	4030981.880	654955.522	122.512
OPEN3	15001FQ	36°05'20.64825 N	91°07'51.09532 W	3995444.761	668280.743	91.004
OPEN5	15001FR	35°49'17.26967 N	91°26'16.75198 W	3965272.323	641102.736	81.288
OPEN4	15001FS	35°56'05.74099 N	91°32'34.34921 W	3977712.050	631439.484	164.550
OPEN6	15001FT	35°45'30.46456 N	91°30'00.99881 W	3958196.008	635582.349	87.928
OPEN7	15001FU	35°41'26.31707 N	91°27'13.76237 W	3950738.638	639900.954	45.487
WOODS2	15001GO	36°39'07.91433 N	91°01'27.66068 W	4058108.654	676593.095	218.624
WOODS3	15001GP	36°30'20.40535 N	91°02'16.92395 W	4041826.839	675701.662	158.574
WOODS4	15001GQ	36°33'27.48580 N	91°00'17.88506 W	4047653.119	678543.684	139.995
WOODS1	15001GR	36°21'58.66631 N	91°00'01.49826 W	4026433.847	679391.549	83.481
WOODS5	15001GS	36°17'18.43848 N	91°06'19.97340 W	4017608.101	670127.845	72.530
WOODS6	15001GT	36°10'04.69283 N	91°11'40.25271 W	4004089.290	662386.558	116.042
WOODS7	15001GU	35°53'28.88745 N	91°24'47.26048 W	3973061.453	643222.693	123.631

Arkansas North State Plane Coordinates NAD 1983 (NSRS2011)/NAVD 1988

Station Name	GPSID	SPC N meters	SPC E Meters	NAVD88 meters	SPC N US ft	SPC E US ft	NAVD88 US ft
GCP51	15001CA	259841.7366	480458.196	240.148	852497.431	1576303.264	787.886
GCP52	15001CB	256333.0883	496457.786	180.692	840986.141	1628795.252	592.820
GCP53	15001CC	249323.1848	481451.608	167.210	817987.815	1579562.483	548.588
GCP54	15001CD	239672.8857	457587.121	236.550	786326.793	1501267.080	776.081
GCP55	15001CE	240787.7351	468589.925	152.344	789984.428	1537365.444	499.815
GCP56	15001CF	238885.2496	485118.645	153.078	783742.690	1591593.419	502.223
GCP57	15001CG	241342.6268	496662.170	140.432	791804.935	1629465.803	460.734
GCP58	15001CH	240170.3460	509819.934	91.677	787958.877	1672634.235	300.777
GCP59	15001CI	239885.2734	526833.579	88.955	787023.601	1728453.167	291.847
GCP60	15001CJ	233851.2175	471211.922	160.382	767226.869	1545967.780	526.187
GCP61	15001CK	225636.6056	468140.703	123.523	740276.097	1535891.624	405.258
GCP62	15001CL	224551.7145	481293.748	102.286	736716.750	1579044.571	335.583

Station Name	GPSID	SPC N meters	SPC E Meters	NAVD88 meters	SPC N US ft	SPC E US ft	NAVD88 US ft
GCP63	15001CM	224898.923	496557.928	104.828	737855.883	1629123.803	343.923
GCP64	15001CN	229229.891	513865.931	88.132	752065.066	1685908.475	289.146
GCP65	15001CO	214663.940	467663.321	171.579	704276.611	1534325.412	562.922
GCP66	15001CP	212385.584	483221.320	99.150	696801.703	1585368.612	325.295
GCP67	15001CQ	221152.909	505588.459	84.273	725565.835	1658751.470	276.486
GCP68	15001CR	210179.178	496095.499	81.127	689562.853	1627606.651	266.164
GCP69	15001CS	209008.232	503853.988	84.029	685721.174	1653060.958	275.685
GCP70	15001CT	200096.712	480464.257	102.627	656483.961	1576323.151	336.702
GCP71	15001CU	193024.150	467493.011	112.650	633280.066	1533766.653	369.586
GCP72	15001CV	189121.940	482604.186	79.440	620477.565	1583343.901	260.629
GCP73	15001CW	195171.274	496458.967	81.374	640324.422	1628799.126	266.975
GCP74	15001CX	180384.495	439216.156	195.620	591811.462	1440995.005	641.797
GCP75	15001CY	175464.863	464064.756	80.864	575670.971	1522519.120	265.301
GCP76	15001CZ	176489.539	481790.461	77.967	579032.762	1580674.205	255.797
GCP77	15001DA	183263.812	488069.613	78.800	601258.025	1601275.056	258.530
GCP78	15001DB	179602.138	495791.568	79.653	589244.681	1626609.502	261.328
GCP79	15001DC	178419.222	448495.751	157.794	585363.729	1471439.811	517.696
GCP80	15001DD	169003.326	439006.437	157.696	554471.746	1440306.952	517.374
GCP81	15001DE	169753.437	453871.230	126.937	556932.733	1489075.861	416.459
GCP82	15001DF	168627.408	467429.972	70.072	553238.420	1533559.832	229.895
GCP83	15001DG	172516.668	476404.333	76.430	565998.436	1563003.216	250.754
GCP84	15001DH	155512.071	438953.082	86.077	510209.185	1440131.904	282.404
GCP85	15001DI	159361.766	455237.544	90.125	522839.394	1493558.508	295.685
GCP86	15001DJ	157270.983	476339.976	72.571	515979.883	1562792.071	238.093
GCP87	15001DK	150704.752	439401.545	76.649	494437.175	1441603.236	251.473
GCP88	15001DL	144882.181	455879.112	67.996	475334.287	1495663.386	223.084
GCP89	15001DM	143876.603	468326.607	70.940	472035.155	1536501.542	232.742
GCP90	15001DN	144535.761	476283.335	70.881	474197.741	1562606.241	232.549
GCP87A	15001DO	144676.121	445020.753	73.744	474658.239	1460038.920	241.942
TALL3	15001EO	236344.844	517841.271	88.533	775408.041	1698950.902	290.462
TALL4	15001EP	228975.876	508973.265	86.155	751231.685	1669856.452	282.660
TALL5	15001EQ	231674.046	500943.182	108.820	760083.932	1643511.088	357.020
TALL2	15001ER	201143.375	490262.998	81.222	659917.889	1608471.187	266.476
TALL1	15001ES	180892.394	491890.738	78.335	593477.795	1613811.529	257.004
TALL7	15001ET	159758.056	466504.024	72.861	524139.556	1530521.952	239.045
TALL6	15001EU	164215.463	459337.941	102.062	538763.564	1507011.226	334.848
OPEN1	15001FO	216265.680	491647.096	117.281	709531.653	1613012.182	384.779
OPEN2	15001FP	230811.248	465319.629	151.009	757253.235	1526636.150	495.435
OPEN3	15001FQ	195133.811	478273.670	119.144	640201.512	1569136.199	390.892
OPEN5	15001FR	165241.556	450784.070	109.048	542130.003	1478947.403	357.768
OPEN4	15001FS	177781.355	441247.909	192.406	583270.997	1447660.846	631.252
OPEN6	15001FT	158221.372	445190.941	115.533	519097.950	1460597.278	379.045
OPEN7	15001FU	150719.504	449433.619	72.986	494485.571	1474516.798	239.455

Station Name	GPSID	SPC N meters	SPC E Meters	NAVD88 meters	SPC N US ft	SPC E US ft	NAVD88 US ft
WOODS2	15001GO	257710.892	487246.305	247.891	845506.486	1598573.918	813.289
WOODS3	15001GP	241437.785	486181.519	187.487	792117.133	1595080.534	615.114
WOODS4	15001GQ	247234.045	489085.522	169.067	811133.697	1604608.084	554.681
WOODS1	15001GR	226005.729	489708.596	111.981	741487.128	1606652.285	367.391
WOODS5	15001GS	217277.525	480352.167	100.890	712851.347	1575955.402	331.003
WOODS6	15001GT	203839.597	472469.511	144.269	668763.744	1550093.719	473.323
WOODS7	15001GU	173009.277	452984.084	151.519	567614.603	1486165.283	497.109

REPORT OF SURVEY – REVISED

2 March 2015

FEMA Region 6 – Arkansas QL2 LiDAR

Washington County – Block W2

GCP Stations

Arkansas LiDAR – Western Section



Station Name: GCP01 GPSID: 15001AA USGS Quad: ROBINSON

NAD 1983 (2011)/ NAVD 1988 Ortho Heights

Latitude: 36°11'54.19585" N Longitude: 94°19'17.15239" W Ellip H: 302.738 meters

Arkansas North Zone State Plane Coordinates

Northing: 209,379.410 Easting: 191,237.441 Ortho H: 330.914 meters

Northing: 686,938.949 Easting: 627,418.170 Ortho H: 1,085.674 US Survey FT

UTM Zone 15 meters

Northing: 4,006,762.088 Easting: 381,198.340

Description: cut grass, on the north side of Osage Creek Road & west side of Logan Road

Arkansas LiDAR – Western Section



Station Name: GCP02 GPSID: 15001AB USGS Quad: SPRING VALLEY

NAD 1983 (2011)/ NAVD 1988 Ortho Heights

Latitude: 36°13'44.77075" N Longitude: 93°59'01.05389" W Ellip H: 382.987 meters

Arkansas North Zone State Plane Coordinates

Northing: 212,122.847	Easting: 221,679.909	Ortho H: 411.050 meters
Northing: 695,939.708	Easting: 727,294.833	Ortho H: 1,348.587 US Survey FT

UTM Zone 15 meters

Northing: 4,009,808.281 Easting: 411,603.925

Description: sparse grass, on the north side of The Pines Road in the center of a dirt drive headed north

Arkansas LiDAR – Western Section



Station Name: GCP03 GPSID: 15001AC USGS Quad: SPRING VALLEY

NAD 1983 (2011)/ NAVD 1988 Ortho Heights

Latitude: 36°11'04.48127" N Longitude: 93°54'54.60181" W Ellip H: 394.949 meters

Arkansas North Zone State Plane Coordinates

Northing: 207,061.361	Easting: 227,737.211	Ortho H: 422.955 meters
Northing: 679,333.815	Easting: 747,167.834	Ortho H: 1,387.645 US Survey FT

UTM Zone 15 meters

Northing: 4,004,809.203 Easting: 417,709.723

Description: grass, west shoulder of SR303

Arkansas LiDAR – Western Section



Station Name: GCP03A GPSID: 15001AZ USGS Quad: SPRING VALLEY

NAD 1983 (2011)/ NAVD 1988 Ortho Heights

Latitude: 36°10'34.72243" N Longitude: 93°57'34.24667" W Ellip H: 385.464 meters

Arkansas North Zone State Plane Coordinates

Northing: 206,222.780 Easting: 223,730.726 Ortho H: 413.485 meters

Northing: 676,582.571 Easting: 734,023.222 Ortho H: 1,356.575 US Survey FT

UTM Zone 15 meters

Northing: 4,003,930.796 Easting: 413,713.048

Description: gravel, west side of CR381 (Hardwood Road) just south of US412

Arkansas LiDAR – Western Section



Station Name: GCP04 GPSID: 15001AD USGS Quad: SPRINGDALE

NAD 1983 (2011)/ NAVD 1988 Ortho Heights

Latitude: 36°09'20.65406" N Longitude: 94°14'15.20939" W Ellip H: 363.152 meters

Arkansas North Zone State Plane Coordinates

Northing: 204,473.470 Easting: 198,671.150 Ortho H: 391.276 meters

Northing: 670,843.375 Easting: 651,806.930 Ortho H: 1,283.711 US Survey FT

UTM Zone 15 meters

Northing: 4,001,931.577 Easting: 388,678.886

Description: cut grass, on the west side of CR709 in the north east corner of a private lot

Arkansas LiDAR – Western Section



Station Name: GCP05 GPSID: 15001AE USGS Quad: ROBINSON

NAD 1983 (2011)/ NAVD 1988 Ortho Heights

Latitude: 36°08'00.51214" N Longitude: 94°21'31.02306" W Ellip H: 280.935 meters

Arkansas North Zone State Plane Coordinates

Northing: 202,258.255 Easting: 187,721.453 Ortho H: 309.145 meters

Northing: 663,575.625 Easting: 615,882.801 Ortho H: 1,014.253 US Survey FT

UTM Zone 15 meters

Northing: 3,999,607.752 Easting: 377,754.185

Description: sparse, on the east side of Robinson Road just south of the Illinois River

Arkansas LiDAR – Western Section



Station Name: GCP06 GPSID: 15001AF USGS Quad: ELKINS

NAD 1983 (2011)/ NAVD 1988 Ortho Heights

Latitude: 36°06'44.49049" N Longitude: 94°07'09.07246" W Ellip H: 362.074 meters

Arkansas North Zone State Plane Coordinates

Northing: 199,425.665 Easting: 209,216.578 Ortho H: 390.126 meters

Northing: 654,282.370 Easting: 686,404.722 Ortho H: 1,279.938 US Survey FT

UTM Zone 15 meters

Northing: 3,996,990.626 Easting: 399,271.661

Description: grass, on the east side of SR265 at a turn around in the median

Arkansas LiDAR – Western Section



Station Name: GCP07 GPSID: 15001AG USGS Quad: GOSHEN

NAD 1983 (2011)/ NAVD 1988 Ortho Heights

Latitude: 36°06'40.98428" N Longitude: 93°58'13.33200" W Ellip H: 382.580 meters

Arkansas North Zone State Plane Coordinates

Northing: 199,039.393 Easting: 222,610.046 Ortho H: 410.586 meters

Northing: 653,015.076 Easting: 730,346.460 Ortho H: 1,347.064 US Survey FT

UTM Zone 15 meters

Northing: 3,996,738.630 Easting: 412,664.722

Description: grass, on the southeast shoulder of SR45 just east pass Running Ridge Dr

Arkansas LiDAR – Western Section



Station Name: GCP08 GPSID: 15001AH USGS Quad: RHEA

NAD 1983 (2011)/ NAVD 1988 Ortho Heights

Latitude: 36°05'55.44452" N Longitude: 94°28'29.40964" W Ellip H: 303.473 meters

Arkansas North Zone State Plane Coordinates

Northing: 198,661.380	Easting: 177,166.914	Ortho H: 331.809 meters
Northing: 651,774.879	Easting: 581,255.118	Ortho H: 1,088.610 US Survey FT

UTM Zone 15 meters

Northing: 3,995,906.510 Easting: 367,237.902

Description: grass, on the west side of CR6 just south of SR244 and in the northeast corner of a poultry farm

Arkansas LiDAR – Western Section



Station Name: GCP09 GPSID: 15001AI USGS Quad: WHEELER

NAD 1983 (2011)/ NAVD 1988 Ortho Heights

Latitude: 36°05'43.57252" N Longitude: 94°19'56.91287" W Ellip H: 330.462 meters

Arkansas North Zone State Plane Coordinates

Northing: 197,982.656 Easting: 189,973.824 Ortho H: 358.653 meters

Northing: 649,548.097 Easting: 623,272.453 Ortho H: 1,176.681 US Survey FT

UTM Zone 15 meters

Northing: 3,995,355.682 Easting: 380,048.651

Description: grass, on the south shoulder of SR16

Arkansas LiDAR – Western Section



Station Name: GCP10 GPSID: 15001AJ USGS Quad: WATTS

NAD 1983 (2011)/ NAVD 1988 Ortho Heights

Latitude: 36°03'47.90951" N Longitude: 94°32'02.18433" W Ellip H: 321.740 meters

Arkansas North Zone State Plane Coordinates

Northing: 194,867.212	Easting: 171,745.223	Ortho H: 350.152 meters
Northing: 639,326.843	Easting: 563,467.454	Ortho H: 1,148.790 US Survey FT

UTM Zone 15 meters

Northing: 3,992,059.048 Easting: 361,855.098

Description: grass, east side of Colony Road and southwest side of SR59

Arkansas LiDAR – Western Section



Station Name: GCP11 GPSID: 15001AK USGS Quad: LINCOLN

NAD 1983 (2011)/ NAVD 1988 Ortho Heights

Latitude: 35°58'32.33265" N Longitude: 94°28'58.56743" W Ellip H: 335.731 meters

Arkansas North Zone State Plane Coordinates

Northing: 185,026.874 Easting: 176,093.449 Ortho H: 364.116 meters

Northing: 607,042.337 Easting: 577,733.256 Ortho H: 1,194.604 US Survey FT

UTM Zone 15 meters

Northing: 3,982,263.989 Easting: 366,300.813

Description: grass, west side of US62 and north of the cemetery for Summers Baptist Church

Arkansas LiDAR – Western Section



Station Name: GCP12 GPSID: 15001AL USGS Quad: WHEELER

NAD 1983 (2011)/ NAVD 1988 Ortho Heights

Latitude: 36°00'29.78459" N Longitude: 94°19'15.63137" W Ellip H: 329.918 meters

Arkansas North Zone State Plane Coordinates

Northing: 188,289.603 Easting: 190,778.223 Ortho H: 358.119 meters

Northing: 617,746.805 Easting: 625,911.553 Ortho H: 1,174.929 US Survey FT

UTM Zone 15 meters

Northing: 3,985,673.030 Easting: 380,949.776

Description: sparse grass, south side of CR80 between two utility vaults

Arkansas LiDAR – Western Section



Station Name: GCP13 GPSID: 15001AM USGS Quad: ELKINS

NAD 1983 (2011)/ NAVD 1988 Ortho Heights

Latitude: 36°03'38.01713" N Longitude: 94°04'11.81805" W Ellip H: 347.402 meters

Arkansas North Zone State Plane Coordinates

Northing: 193,585.234 Easting: 213,527.776 Ortho H: 375.435 meters

Northing: 635,120.887 Easting: 700,549.046 Ortho H: 1,231.740 US Survey FT

UTM Zone 15 meters

Northing: 3,991,195.158 Easting: 403,640.047

Description: sparse grass, parking area for New Life Church on the west side of N Lake Sequoyah Spur

Arkansas LiDAR – Western Section



Station Name: GCP14 GPSID: 15001AN USGS Quad: GOSHEN

NAD 1983 (2011)/ NAVD 1988 Ortho Heights

Latitude: 36°00'15.08433" N Longitude: 93°58'00.08999" W Ellip H: 407.920 meters

Arkansas North Zone State Plane Coordinates

Northing: 187,141.198 Easting: 222,703.606 Ortho H: 435.915 meters

Northing: 613,979.082 Easting: 730,653.415 Ortho H: 1,430.164 US Survey FT

UTM Zone 15 meters

Northing: 3,984,845.263 Easting: 412,877.699

Description: gravel, east side of CR310 just north of CR44

Arkansas LiDAR – Western Section



Station Name: GCP15 GPSID: 15001AO USGS Quad: PRAIRIE GROVE

NAD 1983 (2011)/ NAVD 1988 Ortho Heights

Latitude: 35°55'31.71724" N Longitude: 94°19'25.76793" W Ellip H: 411.079 meters

Arkansas North Zone State Plane Coordinates

Northing: 179,111.567	Easting: 190,307.663	Ortho H: 439.282 meters
Northing: 587,635.198	Easting: 624,367.725	Ortho H: 1,441.211 US Survey FT

UTM Zone 15 meters

Northing: 3,976,492.418 Easting: 380,571.358

Description: gravel/grass, southeast corner of a gravel pull off for a utility box on the south side of CR18 & CR403 intersection

Arkansas LiDAR – Western Section



Station Name: GCP16 GPSID: 15001AP USGS Quad: SULPHUR CITY

NAD 1983 (2011)/ NAVD 1988 Ortho Heights

Latitude: 35°56'56.90352" N Longitude: 94°05'47.35599" W Ellip H: 404.012 meters

Arkansas North Zone State Plane Coordinates

Northing: 181,275.963 Easting: 210,874.214 Ortho H: 432.027 meters

Northing: 594,736.223 Easting: 691,843.151 Ortho H: 1,417.409 US Survey FT

UTM Zone 15 meters

Northing: 3,978,862.889 Easting: 401,110.855

Description: grass, on the south side of CR32 opposite a dirt drive to the north

Arkansas LiDAR – Western Section



Station Name: GCP17 GPSID: 15001AQ USGS Quad: LINCOLN

NAD 1983 (2011)/ NAVD 1988 Ortho Heights

Latitude: 35°54'01.02177" N Longitude: 94°29'04.83685" W Ellip H: 307.666 meters

Arkansas North Zone State Plane Coordinates

Northing: 176,671.632 Easting: 175,725.451 Ortho H: 336.117 meters

Northing: 579,630.179 Easting: 576,525.917 Ortho H: 1,102.744 US Survey FT

UTM Zone 15 meters

Northing: 3,973,906.601 Easting: 366,016.624

Description: grass, on the west shoulder of SR59 just north of Maloney Road

Arkansas LiDAR – Western Section



Station Name: GCP18 GPSID: 15001AR USGS Quad: WEST FORK

NAD 1983 (2011)/ NAVD 1988 Ortho Heights

Latitude: 35°53'31.30149" N Longitude: 94°12'32.09869" W Ellip H: 486.623 meters

Arkansas North Zone State Plane Coordinates

Northing: 175,162.623	Easting: 200,591.464	Ortho H: 514.721 meters
Northing: 574,679.373	Easting: 658,107.160	Ortho H: 1,688.714 US Survey FT

UTM Zone 15 meters

Northing: 3,972,647.789 Easting: 390,892.366

Description: grass, on the northwest side of CR224, just north of a bend in the road

Arkansas LiDAR – Western Section



Station Name: GCP19 GPSID: 15001AS USGS Quad: DELANEY

NAD 1983 (2011)/ NAVD 1988 Ortho Heights

Latitude: 35°52'29.86510" N Longitude: 93°59'11.12340" W Ellip H: 498.751 meters

Arkansas North Zone State Plane Coordinates

Northing: 172,841.647	Easting: 220,635.818	Ortho H: 526.733 meters
Northing: 567,064.638	Easting: 723,869.347	Ortho H: 1,728.123 US Survey FT

UTM Zone 15 meters

Northing: 3,970,529.334 Easting: 410,954.505

Description: gravel/asphalt, on the west side of CR47 at a private drive

Arkansas LiDAR – Western Section



Station Name: GCP20 GPSID: 15001AT USGS Quad: STRICKLER

NAD 1983 (2011)/ NAVD 1988 Ortho Heights

Latitude: 35°48'33.89588" N Longitude: 94°21'17.63328" W Ellip H: 313.830 meters

Arkansas North Zone State Plane Coordinates

Northing: 166,304.752 Easting: 187,196.285 Ortho H: 342.204 meters

Northing: 545,618.173 Easting: 614,159.812 Ortho H: 1,122.714 US Survey FT

UTM Zone 15 meters

Northing: 3,963,657.107 Easting: 377,589.482

Description: grass, east of CR285 in a grass pasture

Arkansas LiDAR – Western Section



Station Name: GCP21 GPSID: 15001AU USGS Quad: BRENTWOOD

NAD 1983 (2011)/ NAVD 1988 Ortho Heights

Latitude: 35°49'08.98146" N Longitude: 94°04'52.27384" W Ellip H: 534.929 meters

Arkansas North Zone State Plane Coordinates

Northing: 166,828.638 Easting: 211,949.492 Ortho H: 562.994 meters

Northing: 547,336.956 Easting: 695,370.959 Ortho H: 1,847.089 US Survey FT

UTM Zone 15 meters

Northing: 3,964,430.461 Easting: 402,331.342

Description: grass, on the south side of CR38 just north of a small stream

Arkansas LiDAR – Western Section



Station Name: GCP22 GPSID: 15001AV USGS Quad: EVANSVILLE

NAD 1983 (2011)/ NAVD 1988 Ortho Heights

Latitude: 35°46'49.63222" N Longitude: 94°29'00.02116" W Ellip H: 409.591 meters

Arkansas North Zone State Plane Coordinates

Northing: 163,377.621 Easting: 175,510.888 Ortho H: 438.172 meters

Northing: 536,014.744 Easting: 575,821.971 Ortho H: 1,437.569 US Survey FT

UTM Zone 15 meters

Northing: 3,960,612.762 Easting: 365,935.815

Description: gravel, turn out on the north side of SR59

Arkansas LiDAR – Western Section



Station Name: GCP23 GPSID: 15001AW USGS Quad: STRICKLER

NAD 1983 (2011)/ NAVD 1988 Ortho Heights

Latitude: 35°45'45.87870" N Longitude: 94°17'24.79171" W Ellip H: 447.355 meters

Arkansas North Zone State Plane Coordinates

Northing: 160,990.154	Easting: 192,919.524	Ortho H: 475.793 meters
Northing: 528,181.865	Easting: 632,936.806	Ortho H: 1,560.998 US Survey FT

UTM Zone 15 meters

Northing: 3,958,401.390 Easting: 383,365.085

Description: gravel, on the west side of CR217-86 & at a private drive to the west

Arkansas LiDAR – Western Section



Station Name: GCP24 GPSID: 15001AX USGS Quad: DELANEY

NAD 1983 (2011)/ NAVD 1988 Ortho Heights

Latitude: 35°47'22.31861" N Longitude: 93°58'34.85727" W Ellip H: 664.245 meters

Arkansas North Zone State Plane Coordinates

Northing: 163,346.855 Easting: 221,355.085 Ortho H: 692.294 meters

Northing: 535,913.805 Easting: 726,229.140 Ortho H: 2,271.301 US Survey FT

UTM Zone 15 meters

Northing: 3,961,044.645 Easting: 411,769.382

Description: gravel, parking lot for Temple Hill Church on the east side of CR38

Arkansas LiDAR – Western Section



Station Name: GCP25 GPSID: 15001AY USGS Quad: FAYETTville

NAD 1983 (2011)/ NAVD 1988 Ortho Heights

Latitude: 36°01'28.78124" N Longitude: 94°11'45.45572" W Ellip H: 367.001 meters

Arkansas North Zone State Plane Coordinates

Northing: 189,848.926 Easting: 202,089.074 Ortho H: 395.084 meters

Northing: 622,862.686 Easting: 663,020.572 Ortho H: 1,296.205 US Survey FT

UTM Zone 15 meters

Northing: 3,987,345.268 Easting: 392,242.112

Description: gravel, private drive apron on the east side of SR265



REPORT OF SURVEY – REVISED

2 March 2015

FEMA Region 6 – Arkansas QL2 LiDAR

Washington County – Block W2

QC Stations

Arkansas LiDAR – Western Section



Station Name: OPEN1 GPSID: 15001FN USGS Quad: BRENTWOOD

NAD 1983 (2011)/ NAVD 1988 Ortho Heights

Latitude: 35°47'24.10251" N Longitude: 94°06'20.61302" W Ellip H: 606.542 meters

Arkansas North Zone State Plane Coordinates

Northing: 163,644.234 Easting: 209,663.460 Ortho H: 634.700 meters

Northing: 536,889.457 Easting: 687,870.870 Ortho H: 2,082.345 US Survey FT

UTM Zone 15 meters

Northing: 3,961,223.856 Easting: 400,078.077

Description: grass, on the west side of CR126 in the northern part of the Coil Center Cemetery

Arkansas LiDAR – Western Section



Station Name: OPEN2 GPSID: 15001FM USGS Quad: BRENTWOOD

NAD 1983 (2011)/ NAVD 1988 Ortho Heights

Latitude: 35°51'34.51237" N Longitude: 94°00'12.63099" W Ellip H: 427.885 meters

Arkansas North Zone State Plane Coordinates

Northing: 171,167.305 Easting: 219,058.590 Ortho H: 455.876 meters

Northing: 561,571.401 Easting: 718,694.722 Ortho H: 1,495.653 US Survey FT

UTM Zone 15 meters

Northing: 3,968,839.591 Easting: 409,394.632

Description: bare, on the north side of Hazel Valley Road

Arkansas LiDAR – Western Section



Station Name: OPEN3 GPSID: 15001FL USGS Quad: SULPHUR CITY

NAD 1983 (2011)/ NAVD 1988 Ortho Heights

Latitude: 35°53'34.92194" N Longitude: 94°02'23.76024" W Ellip H: 400.240 meters

Arkansas North Zone State Plane Coordinates

Northing: 174,945.044 Easting: 215,846.328 Ortho H: 428.241 meters

Northing: 573,965.533 Easting: 708,155.827 Ortho H: 1,404.987 US Survey FT

UTM Zone 15 meters

Northing: 3,972,583.839 Easting: 406,145.242

Description: grass, on the south side of CR119 just east from S Whitehouse Rd

Arkansas LiDAR – Western Section



Station Name: OPEN4 GPSID: 15001FH USGS Quad: SPRINGDALE

NAD 1983 (2011)/ NAVD 1988 Ortho Heights

Latitude: 36°09'17.44490" N Longitude: 94°11'02.64060" W Ellip H: 382.459 meters

Arkansas North Zone State Plane Coordinates

Northing: 204,266.513 Easting: 203,481.148 Ortho H: 410.545 meters

Northing: 670,164.386 Easting: 667,587.733 Ortho H: 1,346.930 US Survey FT

UTM Zone 15 meters

Northing: 4,001,772.692 Easting: 393,489.559

Description: grass, on the west side of CR700 just north of CR884 & east of I540

Arkansas LiDAR – Western Section



Station Name: OPEN5 GPSID: 15001FJ USGS Quad: FAYETTville

NAD 1983 (2011)/ NAVD 1988 Ortho Heights

Latitude: 36°04'38.89147" N Longitude: 94°11'47.71330" W Ellip H: 350.542 meters

Arkansas North Zone State Plane Coordinates

Northing: 195,708.165	Easting: 202,163.271	Ortho H: 378.632 meters
Northing: 642,085.871	Easting: 663,263.999	Ortho H: 1,242.228 US Survey FT

UTM Zone 15 meters

Northing: 3,993,203.632 Easting: 392,257.611

Description: grass, on the north side of McMillan Dr just west of Marinoni Dr & south of W Wedington Dr

Arkansas LiDAR – Western Section



Station Name: OPEN6 GPSID: 15001FK USGS Quad: FAYETTVILLE

NAD 1983 (2011)/ NAVD 1988 Ortho Heights

Latitude: 36°02'34.54408" N Longitude: 94°14'05.80737" W Ellip H: 340.594 meters

Arkansas North Zone State Plane Coordinates

Northing: 191,954.345 Easting: 198,622.010 Ortho H: 368.712 meters

Northing: 629,770.214 Easting: 651,645.711 Ortho H: 1,209.683 US Survey FT

UTM Zone 15 meters

Northing: 3,989,415.389 Easting: 388,754.889

Description: grass, on the north side of US62 & east of the Arvest Bank

Arkansas LiDAR – Western Section



Station Name: OPEN7 GPSID: 15001FI USGS Quad: EVANSVILLE

NAD 1983 (2011)/ NAVD 1988 Ortho Heights

Latitude: 35°52'06.32902" N Longitude: 94°24'13.39901" W Ellip H: 328.768 meters

Arkansas North Zone State Plane Coordinates

Northing: 172,956.487	Easting: 182,944.933	Ortho H: 357.113 meters
Northing: 567,441.406	Easting: 600,211.833	Ortho H: 1,171.628 US Survey FT

UTM Zone 15 meters

Northing: 3,970,264.684 Easting: 373,272.049

Description: grass, on the east side of CR292 & in the front of the Marrow Valley Christian Fellowship Church

Arkansas LiDAR – Western Section



Station Name: TALL1 GPSID: 15001EH USGS Quad: SPRING VALLEY

NAD 1983 (2011)/ NAVD 1988 Ortho Heights

Latitude: 36°12'43.33778" N Longitude: 93°54'52.46404" W Ellip H: 394.859 meters

Arkansas North Zone State Plane Coordinates

Northing: 210,106.777 Easting: 227,849.862 Ortho H: 422.884 meters

Northing: 689,325.316 Easting: 747,537.421 Ortho H: 1,387.412 US Survey FT

UTM Zone 15 meters

Northing: 4,007,854.650 Easting: 417,791.837

Description: short grass, on the west side of SR303 in a field opposite CR526

Arkansas LiDAR – Western Section



Station Name: TALL2 GPSID: 15001EN USGS Quad: SULPHUR CITY

NAD 1983 (2011)/ NAVD 1988 Ortho Heights

Latitude: 35°59'01.75844" N Longitude: 94°00'21.43695" W Ellip H: 351.295 meters

Arkansas North Zone State Plane Coordinates

Northing: 184,953.114 Easting: 219,118.507 Ortho H: 379.312 meters

Northing: 606,800.342 Easting: 718,891.302 Ortho H: 1,244.459 US Survey FT

UTM Zone 15 meters

Northing: 3,982,621.827 Easting: 409,315.724

Description: tall brush, in a field on the north side of CR151 and west of S Center St

Arkansas LiDAR – Western Section



Station Name: TALL3 GPSID: 15001EL USGS Quad: WATTS

NAD 1983 (2011)/ NAVD 1988 Ortho Heights

Latitude: 36°05'42.47917" N Longitude: 94°31'58.70777" W Ellip H: 288.597 meters

Arkansas North Zone State Plane Coordinates

Northing: 198,395.017 Easting: 171,923.025 Ortho H: 316.998 meters

Northing: 650,900.984 Easting: 564,050.791 Ortho H: 1,040.018 US Survey FT

UTM Zone 15 meters

Northing: 3,995,587.962 Easting: 361,997.713

Description: tall brush, on the south side of SR244 & east side of SR59

Arkansas LiDAR – Western Section



Station Name: TALL4 GPSID: 15001EK USGS Quad: RHEA

NAD 1983 (2011)/ NAVD 1988 Ortho Heights

Latitude: 36°03'53.64146" N Longitude: 94°25'41.18684" W Ellip H: 393.627 meters

Arkansas North Zone State Plane Coordinates

Northing: 194,803.609	Easting: 181,280.902	Ortho H: 421.904 meters
Northing: 639,118.174	Easting: 594,752.427	Ortho H: 1,384.197 US Survey FT

UTM Zone 15 meters

Northing: 3,992,090.592 Easting: 371,389.491

Description: tall brush, on the east side of CR669 & opposite CR821

Arkansas LiDAR – Western Section



Station Name: TALL5 GPSID: 15001EJ USGS Quad: RHEA

NAD 1983 (2011)/ NAVD 1988 Ortho Heights

Latitude: 36°01'14.53450" N Longitude: 94°23'35.36323" W Ellip H: 316.404 meters

Arkansas North Zone State Plane Coordinates

Northing: 189,824.115	Easting: 184,309.418	Ortho H: 344.666 meters
Northing: 622,781.284	Easting: 604,688.482	Ortho H: 1,130.792 US Survey FT

UTM Zone 15 meters

Northing: 3,987,142.450 Easting: 374,467.101

Description: tall brush, on the west side of CR33 in the southeast corner of the Rhea Community Center

Arkansas LiDAR – Western Section



Station Name: TALL6 GPSID: 15001EI USGS Quad: PRAIRIE GROVE

NAD 1983 (2011)/ NAVD 1988 Ortho Heights

Latitude: 35°59'16.58873" N Longitude: 94°17'59.03772" W Ellip H: 315.671 meters

Arkansas North Zone State Plane Coordinates

Northing: 185,989.264 Easting: 192,643.062 Ortho H: 343.855 meters

Northing: 610,199.777 Easting: 632,029.780 Ortho H: 1,128.131 US Survey FT

UTM Zone 15 meters

Northing: 3,983,391.927 Easting: 382,837.213

Description: tall grass, on the east side of CR623 in the Prairie Grove Battlefield State Park

Arkansas LiDAR – Western Section



Station Name: TALL7 GPSID: 15001EM USGS Quad: PRAIRIE GROVE

NAD 1983 (2011)/ NAVD 1988 Ortho Heights

Latitude: 35°53'44.54550" N Longitude: 94°17'08.82452" W Ellip H: 373.876 meters

Arkansas North Zone State Plane Coordinates

Northing: 175,729.074 Easting: 193,662.928 Ortho H: 402.052 meters

Northing: 576,537.804 Easting: 635,375.789 Ortho H: 1,319.066 US Survey FT

UTM Zone 15 meters

Northing: 3,973,144.420 Easting: 383,959.830

Description: tall brush, on the west side of CR29 & opposite CR4282

Arkansas LiDAR – Western Section



Station Name: WOODS1 GPSID: 15001GH USGS Quad: SONORA

NAD 1983 (2011)/ NAVD 1988 Ortho Heights

Latitude: 36°09'42.29797" N Longitude: 94°00'10.70167" W Ellip H: 325.709 meters

Arkansas North Zone State Plane Coordinates

Northing: 204,685.929 Easting: 219,788.943 Ortho H: 353.747 meters

Northing: 671,540.418 Easting: 721,090.891 Ortho H: 1,160.585 US Survey FT

UTM Zone 15 meters

Northing: 4,002,355.010 Easting: 409,787.999

Description: woods, on the north side of the Blue Springs Boat Launch on the east side of CR70

Arkansas LiDAR – Western Section



Station Name: WOODS2 GPSID: 15001GJ USGS Quad: FAYETTville

NAD 1983 (2011)/ NAVD 1988 Ortho Heights

Latitude: 36°00'04.02840" N Longitude: 94°08'15.95549" W Ellip H: 375.080 meters

Arkansas North Zone State Plane Coordinates

Northing: 187,121.963 Easting: 207,276.311 Ortho H: 403.127 meters

Northing: 613,915.972 Easting: 680,039.031 Ortho H: 1,322.592 US Survey FT

UTM Zone 15 meters

Northing: 3,984,671.085 Easting: 397,455.256

Description: woods, on the west side of Lake Wilson along the dam axis extended

Arkansas LiDAR – Western Section



Station Name: WOODS3 GPSID: 15001GI USGS Quad: RHEA

NAD 1983 (2011)/ NAVD 1988 Ortho Heights

Latitude: 36°05'31.44519" N Longitude: 94°22'30.41602" W Ellip H: 321.299 meters

Arkansas North Zone State Plane Coordinates

Northing: 197,700.764	Easting: 186,126.078	Ortho H: 349.520 meters
Northing: 648,623.255	Easting: 610,648.641	Ortho H: 1,146.717 US Survey FT

UTM Zone 15 meters

Northing: 3,995,035.450 Easting: 376,204.651

Description: woods, on the north side of CR16 & north of the Lake Wedington Parking area for the hiking trails

Arkansas LiDAR – Western Section



Station Name: WOODS4 GPSID: 15001GK USGS Quad: ROBINSON

NAD 1983 (2011)/ NAVD 1988 Ortho Heights

Latitude: 36°08'02.31248" N Longitude: 94°21'32.07951" W Ellip H: 281.895 meters

Arkansas North Zone State Plane Coordinates

Northing: 202,314.362 Easting: 187,696.376 Ortho H: 310.106 meters

Northing: 663,759.703 Easting: 615,800.526 Ortho H: 1,017.406 US Survey FT

UTM Zone 15 meters

Northing: 3,999,663.595 Easting: 377,728.555

Description: woods, on the west side of Robinson Road just south of the Illinois River

Arkansas LiDAR – Western Section



Station Name: WOODS5 GPSID: 15001GM USGS Quad: EVANSVILLE

NAD 1983 (2011)/ NAVD 1988 Ortho Heights

Latitude: 35°45'48.33324" N Longitude: 94°25'17.31984" W Ellip H: 468.500 meters

Arkansas North Zone State Plane Coordinates

Northing: 161,349.738 Easting: 181,055.450 Ortho H: 497.042 meters

Northing: 529,361.598 Easting: 594,012.756 Ortho H: 1,630.712 US Survey FT

UTM Zone 15 meters

Northing: 3,958,641.160 Easting: 371,499.831

Description: woods, south of a cemetery on the east side of CR295

Arkansas LiDAR – Western Section



Station Name: WOODS6 GPSID: 15001GN USGS Quad: STRICKLER

NAD 1983 (2011)/ NAVD 1988 Ortho Heights

Latitude: 35°50'06.30830" N Longitude: 94°17'18.91706" W Ellip H: 465.648 meters

Arkansas North Zone State Plane Coordinates

Northing: 169,010.775 Easting: 193,253.585 Ortho H: 493.881 meters

Northing: 554,496.186 Easting: 634,032.804 Ortho H: 1,620.341 US Survey FT

UTM Zone 15 meters

Northing: 3,966,423.563 Easting: 383,618.189

Description: woods, on the south side of SR265 & on the west side of a ROW clearing

Arkansas LiDAR – Western Section



Station Name: WOODS7 GPSID: 15001GL USGS Quad: STRICKLER

NAD 1983 (2011)/ NAVD 1988 Ortho Heights

Latitude: 35°46'35.85558" N Longitude: 94°15'14.04627" W Ellip H: 274.196 meters

Arkansas North Zone State Plane Coordinates

Northing: 162,454.210	Easting: 196,238.071	Ortho H: 302.555 meters
Northing: 532,985.186	Easting: 643,824.403	Ortho H: 992.633 US Survey FT

UTM Zone 15 meters

Northing: 3,959,898.608 Easting: 386,668.092

Description: woods, southwest of the parking lot for the Devils Den State Park & on the east side of Lee Creek

REPORT OF SURVEY – REVISED

2 March 2015

FEMA Region 6 – Arkansas QL2 LiDAR

Jefferson County – Block SE

GCP Stations

Arkansas LiDAR – Southern Section



Station Name: GCP26 GPSID: 15001BA USGS Quad: KEO

NAD 1983 (2011)/ NAVD 1988 Ortho Heights

Latitude: 34°35'02.87065" N Longitude: 92°01'04.17894" W Ellip H: 43.976 meters

Arkansas South Zone State Plane Coordinates

Northing: 612,674.848	Easting: 398,364.429	Ortho H: 70.309 meters
Northing: 2,010,084.064	Easting: 1,306,967.298	Ortho H: 230.672 US Survey FT

UTM Zone 15 meters

Northing: 3,827,364.583 Easting: 590,077.530

Description: grass, at the southeast corner of an abandoned church property on the east side of CR1835

Arkansas LiDAR – Southern Section



Station Name: GCP27 GPSID: 15001BB USGS Quad: ENGLAND

NAD 1983 (2011)/ NAVD 1988 Ortho Heights

Latitude: 34°31'57.55571" N Longitude: 91°59'21.99497" W Ellip H: 41.959 meters

Arkansas South Zone State Plane Coordinates

Northing: 606,964.580	Easting: 400,969.130	Ortho H: 68.237 meters
Northing: 1,991,349.625	Easting: 1,315,512.886	Ortho H: 223.874 US Survey FT

UTM Zone 15 meters

Northing: 3,821,681.844 Easting: 592,737.952

Description: bare, east side of a grain storage site on the north side of CR851

Arkansas LiDAR – Southern Section



Station Name: GCP28 GPSID: 15001BC USGS Quad: REDFIELD

NAD 1983 (2011)/ NAVD 1988 Ortho Heights

Latitude: 34°28'32.93835" N Longitude: 92°12'26.68703" W Ellip H: 47.046 meters

Arkansas South Zone State Plane Coordinates

Northing: 600,678.991	Easting: 380,946.692	Ortho H: 73.183 meters
Northing: 1,970,727.655	Easting: 1,249,822.605	Ortho H: 240.101 US Survey FT

UTM Zone 15 meters

Northing: 3,815,200.559 Easting: 572,783.899

Description: bare ground (rough asphalt) on west side of SR 365 on bridge

Arkansas LiDAR – Southern Section



Station Name: GCP29 GPSID: 15001BD USGS Quad: WRIGHT

NAD 1983 (2011)/ NAVD 1988 Ortho Heights

Latitude: 34°28'33.09678" N Longitude: 92°03'03.61415" W Ellip H: 42.620 meters

Arkansas South Zone State Plane Coordinates

Northing: 600,665.738	Easting: 395,314.694	Ortho H: 68.797 meters
Northing: 1,970,684.174	Easting: 1,296,961.624	Ortho H: 225.711 US Survey FT

UTM Zone 15 meters

Northing: 3,815,329.020 Easting: 587,147.467

Description: sparse, intersection of field roads to the east of Carlee Rd & a set of flood gates for a canal

Arkansas LiDAR – Southern Section



Station Name: GCP30 GPSID: 15001BE USGS Quad: SHERRILL

NAD 1983 (2011)/ NAVD 1988 Ortho Heights

Latitude: 34°28'25.22096" N Longitude: 91°57'42.02154" W Ellip H: 42.331 meters

Arkansas South Zone State Plane Coordinates

Northing: 600,422.555	Easting: 403,520.905	Ortho H: 68.557 meters
Northing: 1,969,886.334	Easting: 1,323,884.837	Ortho H: 224.924 US Survey FT

UTM Zone 15 meters

Northing: 3,815,166.959 Easting: 595,353.668

Description: bare, centerline intersection of Catus Lane & field roads

Arkansas LiDAR – Southern Section



Station Name: GCP31 GPSID: 15001BF USGS Quad: REDFIELD

NAD 1983 (2011)/ NAVD 1988 Ortho Heights

Latitude: 34°23'10.54592" N Longitude: 92°09'51.89052" W Ellip H: 79.252 meters

Arkansas South Zone State Plane Coordinates

Northing: 590,738.220	Easting: 384,880.696	Ortho H: 105.296 meters
Northing: 1,938,113.642	Easting: 1,262,729.417	Ortho H: 345.459 US Survey FT

UTM Zone 15 meters

Northing: 3,805,301.728 Easting: 576,814.525

Description: gravel, on the west side of the RR tracks and just south of NCTR road to the east of SR365

Arkansas LiDAR – Southern Section



Station Name: GCP32 GPSID: 15001BG USGS Quad: WRIGHT

NAD 1983 (2011)/ NAVD 1988 Ortho Heights

Latitude: 34°23'11.60142" N Longitude: 92°00'41.62352" W Ellip H: 40.239 meters

Arkansas South Zone State Plane Coordinates

Northing: 590,758.660	Easting: 398,936.768	Ortho H: 66.362 meters
Northing: 1,938,180.704	Easting: 1,308,845.047	Ortho H: 217.723 US Survey FT

UTM Zone 15 meters

Northing: 3,805,460.575 Easting: 590,866.194

Description: bare, centerline of Bitsy Rd on the west side of N Pack Rd

Arkansas LiDAR – Southern Section



Station Name: GCP33 GPSID: 15001BH USGS Quad: HARDIN

NAD 1983 (2011)/ NAVD 1988 Ortho Heights

Latitude: 34°19'13.30666" N Longitude: 92°12'14.71491" W Ellip H: 68.468 meters

Arkansas South Zone State Plane Coordinates

Northing: 583,435.099	Easting: 381,217.809	Ortho H: 94.482 meters
Northing: 1,914,153.322	Easting: 1,250,712.095	Ortho H: 309.980 US Survey FT

UTM Zone 15 meters

Northing: 3,797,964.881 Easting: 573,224.586

Description: bare ground, west side of N-S dirt road at center of dirt drive to the west

Arkansas LiDAR – Southern Section



Station Name: GCP34 GPSID: 15001BI USGS Quad: WHITE HALL

NAD 1983 (2011)/ NAVD 1988 Ortho Heights

Latitude: 34°18'57.90189" N Longitude: 92°06'32.48036" W Ellip H: 52.963 meters

Arkansas South Zone State Plane Coordinates

Northing: 582,947.080	Easting: 389,966.154	Ortho H: 79.000 meters
Northing: 1,912,552.211	Easting: 1,279,413.958	Ortho H: 259.186 US Survey FT

UTM Zone 15 meters

Northing: 3,797,562.975 Easting: 581,975.062

Description: bare ground, north side of Langrell Lane at south edge of grass shoulder

Arkansas LiDAR – Southern Section



Station Name: GCP35 GPSID: 15001BJ USGS Quad: ROB ROY

NAD 1983 (2011)/ NAVD 1988 Ortho Heights

Latitude: 34°20'09.14696" N Longitude: 91°54'30.83802" W Ellip H: 38.758 meters

Arkansas South Zone State Plane Coordinates

Northing: 585,140.647	Easting: 408,413.137	Ortho H: 64.902 meters
Northing: 1,919,748.940	Easting: 1,339,935.435	Ortho H: 212.933 US Survey FT

UTM Zone 15 meters

Northing: 3,799,937.447 Easting: 600,395.351

Description: grass, field on the east side of SR15

Arkansas LiDAR – Southern Section



Station Name: GCP36 GPSID: 15001BK USGS Quad: ALTHEIMER

NAD 1983 (2011)/ NAVD 1988 Ortho Heights

Latitude: 34°20'39.83040" N Longitude: 91°45'21.75574" W Ellip H: 30.776 meters

Arkansas South Zone State Plane Coordinates

Northing: 586,109.034	Easting: 422,445.004	Ortho H: 57.022 meters
Northing: 1,922,926.057	Easting: 1,385,971.651	Ortho H: 187.080 US Survey FT

UTM Zone 15 meters

Northing: 3,801,043.922 Easting: 614,414.320

Description: bare, center of Mulberry Grove Rd near an irrigation pump on the south side of road

Arkansas LiDAR – Southern Section



Station Name: GCP37 GPSID: 15001BL USGS Quad: ROB ROY

NAD 1983 (2011)/ NAVD 1988 Ortho Heights

Latitude: 34°17'41.60027" N Longitude: 91°59'17.62576" W Ellip H: 38.092 meters

Arkansas South Zone State Plane Coordinates

Northing: 580,590.859	Easting: 401,083.577	Ortho H: 64.169 meters
Northing: 1,904,821.844	Easting: 1,315,888.370	Ortho H: 210.528 US Survey FT

UTM Zone 15 meters

Northing: 3,795,316.724 Easting: 593,112.499

Description: sparse, field southwest of Earl Chadick Rd, northwest of a private drive & southeast of US79B

Arkansas LiDAR – Southern Section



Station Name: GCP38 GPSID: 15001BM USGS Quad: ALTHEIMER

NAD 1983 (2011)/ NAVD 1988 Ortho Heights

Latitude: 34°17'14.43648" N Longitude: 91°48'22.70201" W Ellip H: 32.022 meters

Arkansas South Zone State Plane Coordinates

Northing: 579,770.723	Easting: 417,832.599	Ortho H: 58.182 meters
Northing: 1,902,131.114	Easting: 1,370,839.119	Ortho H: 190.885 US Survey FT

UTM Zone 15 meters

Northing: 3,794,661.579 Easting: 609,865.408

Description: sparse, intersection of field roads east of SR88

Arkansas LiDAR – Southern Section



Station Name: GCP39 GPSID: 15001BN USGS Quad: PINE BLUFF NW

NAD 1983 (2011)/ NAVD 1988 Ortho Heights

Latitude: 34°14'06.48708" N Longitude: 92°08'30.48453" W Ellip H: 60.847 meters

Arkansas South Zone State Plane Coordinates

Northing: 573,972.025	Easting: 386,936.917	Ortho H: 86.828 meters
Northing: 1,883,106.553	Easting: 1,269,475.534	Ortho H: 284.868 US Survey FT

UTM Zone 15 meters

Northing: 3,788,560.829 Easting: 579,034.851

Description: grass, on the north end of St Luke AME Church cemetery & south side of parking lot

Arkansas LiDAR – Southern Section



Station Name: GCP40 GPSID: 15001BO USGS Quad: PINE BLUFF NW

NAD 1983 (2011)/ NAVD 1988 Ortho Heights

Latitude: 34°12'35.42396" N Longitude: 92°13'58.17585" W Ellip H: 50.698 meters

Arkansas South Zone State Plane Coordinates

Northing: 571,181.672	Easting: 378,545.065	Ortho H: 76.694 meters
Northing: 1,873,951.868	Easting: 1,241,943.267	Ortho H: 251.620 US Survey FT

UTM Zone 15 meters

Northing: 3,785,689.041 Easting: 570,672.899

Description: brush, centerline of trail on the west side of CR29

Arkansas LiDAR – Southern Section



Station Name: GCP41 GPSID: 15001BP USGS Quad: PINE BLUFF

NAD 1983 (2011)/ NAVD 1988 Ortho Heights

Latitude: 34°10'46.72927" N Longitude: 92°07'29.55170" W Ellip H: 66.115 meters

Arkansas South Zone State Plane Coordinates

Northing: 567,815.372	Easting: 388,488.654	Ortho H: 92.049 meters
Northing: 1,862,907.600	Easting: 1,274,566.524	Ortho H: 301.997 US Survey FT

UTM Zone 15 meters

Northing: 3,782,421.191 Easting: 580,646.494

Description: grass, small island on the east side of SR54 & opposite Dollar Store

Arkansas LiDAR – Southern Section



Station Name: GCP42 GPSID: 15001BQ USGS Quad: PINE BLUFF

NAD 1983 (2011)/ NAVD 1988 Ortho Heights

Latitude: 34°11'43.53267" N Longitude: 92°00'02.87459" W Ellip H: 41.968 meters

Arkansas South Zone State Plane Coordinates

Northing: 569,558.482	Easting: 399,926.406	Ortho H: 67.959 meters
Northing: 1,868,626.453	Easting: 1,312,091.884	Ortho H: 222.962 US Survey FT

UTM Zone 15 meters

Northing: 3,784,275.938 Easting: 592,063.979

Description: gravel, parking for Church of Jesus Christ west of S Georgia St & north of E 34th St

Arkansas LiDAR – Southern Section



Station Name: GCP43 GPSID: 15001BR USGS Quad: MOSCOW

NAD 1983 (2011)/ NAVD 1988 Ortho Heights

Latitude: 34°12'27.42804" N Longitude: 91°51'59.69151" W Ellip H: 35.208 meters

Arkansas South Zone State Plane Coordinates

Northing: 570,918.928	Easting: 412,294.869	Ortho H: 61.259 meters
Northing: 1,873,089.849	Easting: 1,352,670.751	Ortho H: 200.981 US Survey FT

UTM Zone 15 meters

Northing: 3,785,757.402 Easting: 604,415.980

Description: grass, south side of Watkins Lake Rd & north edge of a field

Arkansas LiDAR – Southern Section



Station Name: GCP44 GPSID: 15001BS USGS Quad: CORNERSTONE

NAD 1983 (2011)/ NAVD 1988 Ortho Heights

Latitude: 34°13'27.02876" N Longitude: 91°41'40.54381" W Ellip H: 31.016 meters

Arkansas South Zone State Plane Coordinates

Northing: 572,789.217	Easting: 428,138.213	Ortho H: 57.163 meters
Northing: 1,879,225.955	Easting: 1,404,650.121	Ortho H: 187.542 US Survey FT

UTM Zone 15 meters

Northing: 3,787,782.929 Easting: 620,237.529

Description: sparse, field on the northwest side of Cornerstone Rd

Arkansas LiDAR – Southern Section



Station Name: GCP44A GPSID: 15001BZ USGS Quad: HUMPHREY SW

NAD 1983 (2011)/ NAVD 1988 Ortho Heights

Latitude: 34°16'41.67547" N Longitude: 91°41'28.08337" W Ellip H: 29.058 meters

Arkansas South Zone State Plane Coordinates

Northing: 578,787.356	Easting: 428,439.016	Ortho H: 55.266 meters
Northing: 1,898,904.851	Easting: 1,405,637.005	Ortho H: 181.319 US Survey FT

UTM Zone 15 meters

Northing: 3,793,782.855 Easting: 620,479.252

Description: bare, Longbell Rd an access area for Bayou Metro WMA

Arkansas LiDAR – Southern Section



Station Name: GCP45 GPSID: 15001BT USGS Quad: MOSCOW

NAD 1983 (2011)/ NAVD 1988 Ortho Heights

Latitude: 34°11'13.85902" N Longitude: 91°46'25.40345" W Ellip H: 38.479 meters

Arkansas South Zone State Plane Coordinates

Northing: 568,667.277	Easting: 420,856.928	Ortho H: 64.545 meters
Northing: 1,865,702.559	Easting: 1,380,761.436	Ortho H: 211.761 US Survey FT

UTM Zone 15 meters

Northing: 3,783,590.305 Easting: 612,998.214

Description: gravel, top of Levee road, where another levee T's from the west

Arkansas LiDAR – Southern Section



Station Name: GCP46 GPSID: 15001BV USGS Quad: KEDRON

NAD 1983 (2011)/ NAVD 1988 Ortho Heights

Latitude: 34°04'38.13218" N Longitude: 92°11'18.20422" W Ellip H: 48.989 meters

Arkansas South Zone State Plane Coordinates

Northing: 556,467.891	Easting: 382,612.820	Ortho H: 74.919 meters
Northing: 1,825,678.406	Easting: 1,255,288.893	Ortho H: 245.797 US Survey FT

UTM Zone 15 meters

Northing: 3,771,019.534 Easting: 574,883.435

Description: low brush, north side of Hudson Cemetery Rd in a logged lot

Arkansas LiDAR – Southern Section



Station Name: GCP47 GPSID: 15001BU USGS Quad: FAITH

NAD 1983 (2011)/ NAVD 1988 Ortho Heights

Latitude: 34°06'17.19762" N Longitude: 92°06'33.73521" W Ellip H: 46.523 meters

Arkansas South Zone State Plane Coordinates

Northing: 559,509.463	Easting: 389,909.034	Ortho H: 72.424 meters
Northing: 1,835,657.296	Easting: 1,279,226.554	Ortho H: 237.611 US Survey FT

UTM Zone 15 meters

Northing: 3,774,131.568 Easting: 582,147.785

Description: bare, dump area on the north side of SR54 & at intersection of trails

Arkansas LiDAR – Southern Section



Station Name: GCP48 GPSID: 15001BW USGS Quad: PINEBERGEN

NAD 1983 (2011)/ NAVD 1988 Ortho Heights

Latitude: 34°06'01.08095" N Longitude: 91°58'14.90681" W Ellip H: 40.808 meters

Arkansas South Zone State Plane Coordinates

Northing: 559,007.905	Easting: 402,693.556	Ortho H: 66.710 meters
Northing: 1,834,011.768	Easting: 1,321,170.441	Ortho H: 218.864 US Survey FT

UTM Zone 15 meters

Northing: 3,773,755.219 Easting: 594,933.760

Description: grass, south of Pinebergen Rd & west of Hwy 530 & in the northeast corner of a cemetery

Arkansas LiDAR – Southern Section



Station Name: GCP49 GPSID: 15001BX USGS Quad: TARRY

NAD 1983 (2011)/ NAVD 1988 Ortho Heights

Latitude: 34°06'05.74104" N Longitude: 91°48'26.18408" W Ellip H: 31.208 meters

Arkansas South Zone State Plane Coordinates

Northing: 559,167.836	Easting: 417,782.337	Ortho H: 57.129 meters
Northing: 1,834,536.476	Easting: 1,370,674.216	Ortho H: 187.431 US Survey FT

UTM Zone 15 meters

Northing: 3,774,062.772 Easting: 610,017.394

Description: grass, on the west side of SR199 near an irrigation pump and fuel tank

Arkansas LiDAR – Southern Section



Station Name: GCP50 GPSID: 15001BY USGS Quad: CORNERSTONE

NAD 1983 (2011)/ NAVD 1988 Ortho Heights

Latitude: 34°07'38.90790" N Longitude: 91°43'10.56903" W Ellip H: 31.448 meters

Arkansas South Zone State Plane Coordinates

Northing: 562,056.977	Easting: 425,863.596	Ortho H: 57.475 meters
Northing: 1,844,015.264	Easting: 1,397,187.481	Ortho H: 188.566 US Survey FT

UTM Zone 15 meters

Northing: 3,777,030.455 Easting: 618,068.686

Description: sparse, field on the south side of Dutch Rd



REPORT OF SURVEY – REVISED

2 March 2015

FEMA Region 6 – Arkansas QL2 LiDAR

Jefferson County – Block SE

QC Stations

Arkansas LiDAR – Southern Section



Station Name: OPEN1 GPSID: 15001FC USGS Quad: WRIGHT

NAD 1983 (2011)/ NAVD 1988 Ortho Heights

Latitude: 34°24'55.97559" N Longitude: 92°05'07.94215" W Ellip H: 41.420 meters

Arkansas South Zone State Plane Coordinates

Northing: 593,977.853	Easting: 392,136.610	Ortho H: 67.527 meters
Northing: 1,948,742.339	Easting: 1,286,534.863	Ortho H: 221.545 US Survey FT

UTM Zone 15 meters

Northing: 3,808,611.814 Easting: 584,036.307

Description: bare, centerline of a north field road on the north side of Lock & Dam #5 Road, just west of a levee

Arkansas LiDAR – Southern Section



Station Name: OPEN2 GPSID: 15001FD USGS Quad: WHITE HALL

NAD 1983 (2011)/ NAVD 1988 Ortho Heights

Latitude: 34°19'16.53505" N Longitude: 92°01'50.94485" W Ellip H: 38.915 meters

Arkansas South Zone State Plane Coordinates

Northing: 583,516.275	Easting: 397,163.843	Ortho H: 64.990 meters
Northing: 1,914,419.645	Easting: 1,303,028.376	Ortho H: 213.221 US Survey FT

UTM Zone 15 meters

Northing: 3,798,202.782 Easting: 589,165.075

Description: bare, east side of Earl Chadick Rd & north of Morris Chapel Rd

Arkansas LiDAR – Southern Section



Station Name: OPEN3 GPSID: 15001FB USGS Quad: SHERRILL

NAD 1983 (2011)/ NAVD 1988 Ortho Heights

Latitude: 34°26'26.46911" N Longitude: 91°57'15.08901" W Ellip H: 41.274 meters

Arkansas South Zone State Plane Coordinates

Northing: 596,763.809	Easting: 404,209.801	Ortho H: 67.474 meters
Northing: 1,957,882.595	Easting: 1,326,144.990	Ortho H: 221.371 US Survey FT

UTM Zone 15 meters

Northing: 3,811,516.047 Easting: 596,078.510

Description: grass, in front of the Tucker Fire Dept on the east side of parking lot & east of SR15

Arkansas LiDAR – Southern Section



Station Name: OPEN4 GPSID: 15001FA USGS Quad: WRIGHT

NAD 1983 (2011)/ NAVD 1988 Ortho Heights

Latitude: 34°29'25.09997" N Longitude: 92°00'39.69129" W Ellip H: 41.742 meters

Arkansas South Zone State Plane Coordinates

Northing: 602,266.980	Easting: 398,987.365	Ortho H: 67.956 meters
Northing: 1,975,937.585	Easting: 1,309,011.046	Ortho H: 222.952 US Survey FT

UTM Zone 15 meters

Northing: 3,816,966.053 Easting: 590,803.221

Description: gravel/asphalt, parking for Plum Bayou Boat access

Arkansas LiDAR – Southern Section



Station Name: OPEN5 GPSID: 15001FF USGS Quad: PINE BLUFF

NAD 1983 (2011)/ NAVD 1988 Ortho Heights

Latitude: 34°09'52.61456" N Longitude: 92°00'25.34630" W Ellip H: 41.953 meters

Arkansas South Zone State Plane Coordinates

Northing: 566,141.088	Easting: 399,350.861	Ortho H: 67.912 meters
Northing: 1,857,414.551	Easting: 1,310,203.615	Ortho H: 222.808 US Survey FT

UTM Zone 15 meters

Northing: 3,780,853.810 Easting: 591,522.089

Description: grass, vacant lot on the west side of US63 & south of Ridgway Rd

Arkansas LiDAR – Southern Section



Station Name: OPEN6 GPSID: 15001FG USGS Quad: PINE BLUFF

NAD 1983 (2011)/ NAVD 1988 Ortho Heights

Latitude: 34°12'56.09165" N Longitude: 92°04'40.15971" W Ellip H: 43.221 meters

Arkansas South Zone State Plane Coordinates

Northing: 571,796.781	Easting: 392,829.181	Ortho H: 69.196 meters
Northing: 1,875,969.938	Easting: 1,288,807.071	Ortho H: 227.021 US Survey FT

UTM Zone 15 meters

Northing: 3,786,444.013 Easting: 584,946.748

Description: grass, field on the south side of SR104

Arkansas LiDAR – Southern Section



Station Name: OPEN7 GPSID: 15001FE USGS Quad: WHITE HALL

NAD 1983 (2011)/ NAVD 1988 Ortho Heights

Latitude: 34°15'48.09814" N Longitude: 92°03'35.10462" W Ellip H: 44.047 meters

Arkansas South Zone State Plane Coordinates

Northing: 577,095.295	Easting: 394,497.390	Ortho H: 70.068 meters
Northing: 1,893,353.480	Easting: 1,294,280.186	Ortho H: 229.881 US Survey FT

UTM Zone 15 meters

Northing: 3,791,757.403 Easting: 586,562.482

Description: bare, pulloff on the north side of Jefferson Pkwy, west of RRxing and East of Dixie Woods Dr

Arkansas LiDAR – Southern Section



Station Name: TALL1 GPSID: 15001EB USGS Quad: WRIGHT

NAD 1983 (2011)/ NAVD 1988 Ortho Heights

Latitude: 34°28'41.26610" N Longitude: 92°01'50.42190" W Ellip H: 40.375 meters

Arkansas South Zone State Plane Coordinates

Northing: 600,916.710	Easting: 397,182.425	Ortho H: 66.565 meters
Northing: 1,971,507.574	Easting: 1,303,089.340	Ortho H: 218.389 US Survey FT

UTM Zone 15 meters

Northing: 3,815,598.358 Easting: 589,012.158

Description: tall brush, on the west side of Hunter road & north of a tributary stream to Arkansas River

Arkansas LiDAR – Southern Section



Station Name: TALL2 GPSID: 15001EC USGS Quad: ROB ROY

NAD 1983 (2011)/ NAVD 1988 Ortho Heights

Latitude: 34°20'59.27017" N Longitude: 91°59'06.59610" W Ellip H: 38.578 meters

Arkansas South Zone State Plane Coordinates

Northing: 586,681.357	Easting: 401,364.741	Ortho H: 64.692 meters
Northing: 1,924,803.751	Easting: 1,316,810.820	Ortho H: 212.244 US Survey FT

UTM Zone 15 meters

Northing: 3,801,408.329 Easting: 593,333.653

Description: taal grass, on the south side of Mitchell Rd

Arkansas LiDAR – Southern Section



Station Name: TALL3 GPSID: 15001EA USGS Quad: ENGLAND

NAD 1983 (2011)/ NAVD 1988 Ortho Heights

Latitude: 34°34'36.49192" N Longitude: 91°59'06.60475" W Ellip H: 42.481 meters

Arkansas South Zone State Plane Coordinates

Northing: 611,861.981	Easting: 401,360.871	Ortho H: 68.823 meters
Northing: 2,007,417.183	Easting: 1,316,798.125	Ortho H: 225.797 US Survey FT

UTM Zone 15 meters

Northing: 3,826,581.644 Easting: 593,081.096

Description: tall grass, on the south side of CR846 & east of access drive to a cell tower on the east side of US165

Arkansas LiDAR – Southern Section



Station Name: TALL4 GPSID: 15001EE USGS Quad: ALTHEIMER

NAD 1983 (2011)/ NAVD 1988 Ortho Heights

Latitude: 34°15'32.37707" N Longitude: 91°49'10.64665" W Ellip H: 34.743 meters

Arkansas South Zone State Plane Coordinates

Northing: 576,623.945	Easting: 416,612.012	Ortho H: 60.869 meters
Northing: 1,891,807.060	Easting: 1,366,834.575	Ortho H: 199.701 US Survey FT

UTM Zone 15 meters

Northing: 3,791,503.510 Easting: 608,676.061

Description: tall brush, on the west side of SR88 just north of Riley Bayou

Arkansas LiDAR – Southern Section



Station Name: TALL5 GPSID: 15001ED USGS Quad: ALTHEIMER

NAD 1983 (2011)/ NAVD 1988 Ortho Heights

Latitude: 34°18'27.90340" N Longitude: 91°45'15.51132" W Ellip H: 30.109 meters

Arkansas South Zone State Plane Coordinates

Northing: 582,044.585	Easting: 422,614.346	Ortho H: 56.318 meters
Northing: 1,909,591.277	Easting: 1,386,527.234	Ortho H: 184.770 US Survey FT

UTM Zone 15 meters

Northing: 3,796,982.030 Easting: 614,623.698

Description: tall brush, on the south side of SR88

Arkansas LiDAR – Southern Section



Station Name: TALL6 GPSID: 15001EG USGS Quad: MOSCOW

NAD 1983 (2011)/ NAVD 1988 Ortho Heights

Latitude: 34°07'40.72732" N Longitude: 91°48'22.32885" W Ellip H: 31.468 meters

Arkansas South Zone State Plane Coordinates

Northing: 562,094.532	Easting: 417,875.605	Ortho H: 57.429 meters
Northing: 1,844,138.478	Easting: 1,370,980.214	Ortho H: 188.415 US Survey FT

UTM Zone 15 meters

Northing: 3,776,989.743 Easting: 610,081.983

Description: tall brush, east side of SR199

Arkansas LiDAR – Southern Section



Station Name: TALL7 GPSID: 15001EF USGS Quad: LADD

NAD 1983 (2011)/ NAVD 1988 Ortho Heights

Latitude: 34°08'59.78982" N Longitude: 91°54'29.49632" W Ellip H: 33.375 meters

Arkansas South Zone State Plane Coordinates

Northing: 564,517.325	Easting: 408,465.925	Ortho H: 59.337 meters
Northing: 1,852,087.256	Easting: 1,340,108.624	Ortho H: 194.675 US Survey FT

UTM Zone 15 meters

Northing: 3,779,319.783 Easting: 600,650.742

Description: tall grass, on the east side of US425, just north of a high tension line

Arkansas LiDAR – Southern Section



Station Name: WOODS1 GPSID: 15001GB USGS Quad: FAITH

NAD 1983 (2011)/ NAVD 1988 Ortho Heights

Latitude: 34°04'57.50826" N Longitude: 92°01'22.13567" W Ellip H: 54.049 meters

Arkansas South Zone State Plane Coordinates

Northing: 557,049.098	Easting: 397,894.413	Ortho H: 79.943 meters
Northing: 1,827,585.248	Easting: 1,305,425.252	Ortho H: 262.280 US Survey FT

UTM Zone 15 meters

Northing: 3,771,749.982 Easting: 590,155.030

Description: woods, on the north side of a cemetery on the north side of US63

Arkansas LiDAR – Southern Section



Station Name: WOODS2 GPSID: 15001GA USGS Quad: PINE BLUFF NW

NAD 1983 (2011)/ NAVD 1988 Ortho Heights

Latitude: 34°07'47.09461" N Longitude: 92°11'37.24759" W Ellip H: 49.847 meters

Arkansas South Zone State Plane Coordinates

Northing: 562,290.687	Easting: 382,135.619	Ortho H: 75.798 meters
Northing: 1,844,782.030	Easting: 1,253,723.275	Ortho H: 248.681 US Survey FT

UTM Zone 15 meters

Northing: 3,776,835.925 Easting: 574,349.428

Description: woods, pine stand on the east side of Huntley Trail

Arkansas LiDAR – Southern Section



Station Name: WOODS3 GPSID: 15001GD USGS Quad: HARDIN

NAD 1983 (2011)/ NAVD 1988 Ortho Heights

Latitude: 34°16'37.57948" N Longitude: 92°10'51.53870" W Ellip H: 85.431 meters

Arkansas South Zone State Plane Coordinates

Northing: 578,632.983	Easting: 383,335.634	Ortho H: 111.432 meters
Northing: 1,898,398.380	Easting: 1,257,660.325	Ortho H: 365.590 US Survey FT

UTM Zone 15 meters

Northing: 3,793,185.047 Easting: 575,388.912

Description: woods, pines on the east side of Bruce Trl

Arkansas LiDAR – Southern Section



Station Name: WOODS4 GPSID: 15001GC USGS Quad: PINE BLUFF NW

NAD 1983 (2011)/ NAVD 1988 Ortho Heights

Latitude: 34°12'41.01745" N Longitude: 92°11'13.84848" W Ellip H: 58.899 meters

Arkansas South Zone State Plane Coordinates

Northing: 571,345.381	Easting: 382,751.691	Ortho H: 84.873 meters
Northing: 1,874,488.970	Easting: 1,255,744.507	Ortho H: 278.454 US Survey FT

UTM Zone 15 meters

Northing: 3,785,893.929 Easting: 574,876.634

Description: woods, pine trees on the north side of Summers Rd

Arkansas LiDAR – Southern Section



Station Name: WOODS5 GPSID: 15001GF USGS Quad: REDFIELD

NAD 1983 (2011)/ NAVD 1988 Ortho Heights

Latitude: 34°26'21.62449" N Longitude: 92°11'55.00967" W Ellip H: 80.412 meters

Arkansas South Zone State Plane Coordinates

Northing: 596,631.300	Easting: 381,747.156	Ortho H: 106.488 meters
Northing: 1,957,447.856	Easting: 1,252,448.794	Ortho H: 349.369 US Survey FT

UTM Zone 15 meters

Northing: 3,811,162.082 Easting: 573,623.973

Description: woods, north side of Sheridan Rd east of exit ramp I530S

Arkansas LiDAR – Southern Section



Station Name: WOODS6 GPSID: 15001GE USGS Quad: REDFIELD

NAD 1983 (2011)/ NAVD 1988 Ortho Heights

Latitude: 34°23'51.84875" N Longitude: 92°11'33.35788" W Ellip H: 69.678 meters

Arkansas South Zone State Plane Coordinates

Northing: 592,015.353	Easting: 382,291.202	Ortho H: 95.721 meters
Northing: 1,942,303.703	Easting: 1,254,233.719	Ortho H: 314.045 US Survey FT

UTM Zone 15 meters

Northing: 3,806,552.977 Easting: 574,213.283

Description: woods, southwest of Stage Coach Rd & south east side of Davis Rd

Arkansas LiDAR – Southern Section



Station Name: WOODS7 GPSID: 15001GG USGS Quad: HARDIN

NAD 1983 (2011)/ NAVD 1988 Ortho Heights

Latitude: 34°20'49.15953" N Longitude: 92°11'13.49097" W Ellip H: 94.304 meters

Arkansas South Zone State Plane Coordinates

Northing: 586,385.461	Easting: 382,788.328	Ortho H: 120.326 meters
Northing: 1,923,832.968	Easting: 1,255,864.706	Ortho H: 394.770 US Survey FT

UTM Zone 15 meters

Northing: 3,800,929.752 Easting: 574,765.622

Description: woods, on the north side of Gravel Pit Rd, opposite Waste Management site and a strip mine

REPORT OF SURVEY – REVISED

2 March 2015

FEMA Region 6 – Arkansas QL2 LiDAR

Lower Black Watershed – Blocks NEL & NEU

GCP Stations

Arkansas LiDAR – Northern Section



Station Name: GCP51 GPSID: 15001CA USGS Quad: BARDLEY

NAD 1983 (2011)/ NAVD 1988 Ortho Heights

Latitude: 36°40'19.12684" N Longitude: 91°06'00.13472" W Ellip H: 210.862 meters

Arkansas North Zone State Plane Coordinates

Northing: 259,841.737 Easting: 480,458.196 Ortho H: 240.148 meters

Northing: 852,497.431 Easting: 1,576,303.264 Ortho H: 787.886 US Survey FT

Missouri East Zone State Plane Coordinates

Northing: 93,220.833 Easting: 196,364.405 Ortho H: 240.148 meters

Northing: 305,842.016 Easting: 644,238.885 Ortho H: 787.886 US Survey FT

UTM Zone 15 meters

Northing: 4,060,166.620 Easting: 669,783.603

Description: bare, on the north side of US160 just east of 160W-21 in a parking area

Arkansas LiDAR – Northern Section



Station Name: GCP52 GPSID: 15001CB USGS Quad: BRIAR

NAD 1983 (2011)/ NAVD 1988 Ortho Heights

Latitude: 36°38'20.10768" N Longitude: 90°55'17.46301" W Ellip H: 151.423 meters

Arkansas North Zone State Plane Coordinates

Northing: 256,333.088 Easting: 496,457.786 Ortho H: 180.692 meters

Northing: 840,986.141 Easting: 1,628,795.252 Ortho H: 592.820 US Survey FT

Missouri East Zone State Plane Coordinates

Northing: 89,467.281 Easting: 212,305.768 Ortho H: 180.692 meters

Northing: 293,527.238 Easting: 696,539.840 Ortho H: 592.820 US Survey FT

UTM Zone 15 meters

Northing: 4,056,829.540 Easting: 685,817.831

Description: grass, east end of a cemetery on the north side of US160

Arkansas LiDAR – Northern Section



Station Name: GCP53 GPSID: 15001CC USGS Quad: GATEWOOD

NAD 1983 (2011)/ NAVD 1988 Ortho Heights

Latitude: 36°34'37.64697" N Longitude: 91°05'24.04895" W Ellip H: 138.143 meters

Arkansas North Zone State Plane Coordinates

Northing: 249,323.185	Easting: 481,451.608	Ortho H: 167.210 meters
Northing: 817,987.815	Easting: 1,579,562.483	Ortho H: 548.588 US Survey FT

Missouri East Zone State Plane Coordinates

Northing: 82,689.639	Easting: 197,195.750	Ortho H: 167.210 meters
Northing: 271,290.924	Easting: 646,966.390	Ortho H: 548.588 US Survey FT

UTM Zone 15 meters

Northing: 4,049,660.750 Easting: 670,888.805

Description: bare, in front of the Gatewood Fire Dept on the north side of SR142 & west of Y

Arkansas LiDAR – Northern Section



Station Name: GCP54 GPSID: 15001CD USGS Quad: HARDY NE

NAD 1983 (2011)/ NAVD 1988 Ortho Heights

Latitude: 36°29'30.71279" N Longitude: 91°21'26.36941" W Ellip H: 208.052 meters

Arkansas North Zone State Plane Coordinates

Northing: 239,672.886 Easting: 457,587.121 Ortho H: 236.550 meters

Northing: 786,326.793 Easting: 1,501,267.080 Ortho H: 776.081 US Survey FT

Missouri East Zone State Plane Coordinates

Northing: 73,408.877 Easting: 173,187.565 Ortho H: 236.550 meters

Northing: 240,842.291 Easting: 568,199.536 Ortho H: 776.081 US Survey FT

UTM Zone 15 meters

Northing: 4,039,760.201 Easting: 647,131.549

Description: grass, field on the west side of Farewell Rd at a 90 degree corner

Arkansas LiDAR – Northern Section



Station Name: GCP55 GPSID: 15001CE USGS Quad: BILLMORE

NAD 1983 (2011)/ NAVD 1988 Ortho Heights

Latitude: 36°30'04.32485" N Longitude: 91°14'03.98694" W Ellip H: 123.642 meters

Arkansas North Zone State Plane Coordinates

Northing: 240,787.735 Easting: 468,589.925 Ortho H: 152.344 meters

Northing: 789,984.428 Easting: 1,537,365.444 Ortho H: 499.815 US Survey FT

Missouri East Zone State Plane Coordinates

Northing: 74,353.948 Easting: 184,205.510 Ortho H: 152.344 meters

Northing: 243,942.911 Easting: 604,347.577 Ortho H: 499.815 US Survey FT

UTM Zone 15 meters

Northing: 4,040,990.766 Easting: 658,120.059

Description: bare, pulloff on the south side of CR BB at Running Ranch by two small barns

Arkansas LiDAR – Northern Section



Station Name: GCP56 GPSID: 15001CF USGS Quad: WARM SPRINGS

NAD 1983 (2011)/ NAVD 1988 Ortho Heights

Latitude: 36°28'57.94045" N Longitude: 91°03'00.62073" W Ellip H: 124.237 meters

Arkansas North Zone State Plane Coordinates

Northing: 238,885.250 Easting: 485,118.645 Ortho H: 153.078 meters

Northing: 783,742.690 Easting: 1,591,593.419 Ortho H: 502.223 US Survey FT

Missouri East Zone State Plane Coordinates

Northing: 72,197.707 Easting: 200,701.586 Ortho H: 153.078 meters

Northing: 236,868.644 Easting: 658,468.453 Ortho H: 502.223 US Survey FT

UTM Zone 15 meters

Northing: 4,039,263.396 Easting: 674,665.990

Description: grass, on the east side of SR251 & south side of the dirt drive to Power Of Freedom Ministries

Arkansas LiDAR – Northern Section



Station Name: GCP57 GPSID: 15001CG USGS Quad: POYNOR

NAD 1983 (2011)/ NAVD 1988 Ortho Heights

Latitude: 36°30'13.79515" N Longitude: 90°55'15.84838" W Ellip H: 111.475 meters

Arkansas North Zone State Plane Coordinates

Northing: 241,342.627 Easting: 496,662.170 Ortho H: 140.432 meters

Northing: 791,804.935 Easting: 1,629,465.803 Ortho H: 460.734 US Survey FT

Missouri East Zone State Plane Coordinates

Northing: 74,477.453 Easting: 212,280.239 Ortho H: 140.432 meters

Northing: 244,348.110 Easting: 696,456.084 Ortho H: 460.734 US Survey FT

UTM Zone 15 meters

Northing: 4,041,842.986 Easting: 686,182.089

Description: grass, south side of SR24 & centerline of a dirt drive

Arkansas LiDAR – Northern Section



Station Name: GCP58 GPSID: 15001CH USGS Quad: SUPPLY

NAD 1983 (2011)/ NAVD 1988 Ortho Heights

Latitude: 36°29'30.77441" N Longitude: 90°46'27.77091" W Ellip H: 62.729 meters

Arkansas North Zone State Plane Coordinates

Northing: 240,170.346 Easting: 509,819.934 Ortho H: 91.677 meters

Northing: 787,958.877 Easting: 1,672,634.235 Ortho H: 300.777 US Survey FT

Missouri East Zone State Plane Coordinates

Northing: 73,104.002 Easting: 225,416.967 Ortho H: 91.677 meters

Northing: 239,842.047 Easting: 739,555.499 Ortho H: 300.777 US Survey FT

UTM Zone 15 meters

Northing: 4,040,810.868 Easting: 699,351.523

Description: grass, east side of SR211 & south of an abandoned house

Arkansas LiDAR – Northern Section



Station Name: GCP59 GPSID: 15001CI USGS Quad: CORNING

NAD 1983 (2011)/ NAVD 1988 Ortho Heights

Latitude: 36°29'14.12581" N Longitude: 90°35'04.46719" W Ellip H: 60.047 meters

Arkansas North Zone State Plane Coordinates

Northing: 239,885.273 Easting: 526,833.579 Ortho H: 88.955 meters

Northing: 787,023.601 Easting: 1,728,453.167 Ortho H: 291.847 US Survey FT

Missouri East Zone State Plane Coordinates

Northing: 72,559.171 Easting: 242,422.166 Ortho H: 88.955 meters

Northing: 238,054.547 Easting: 795,346.723 Ortho H: 291.847 US Survey FT

UTM Zone 15 meters

Northing: 4,040,707.543 Easting: 716,368.466

Description: grass, west edge of a field track road at an irrigation pump

Arkansas LiDAR – Northern Section



Station Name: GCP60 GPSID: 15001CJ USGS Quad: DALTON

NAD 1983 (2011)/ NAVD 1988 Ortho Heights

Latitude: 36°26'18.63712" N Longitude: 91°12'20.88496" W Ellip H: 131.793 meters

Arkansas North Zone State Plane Coordinates

Northing: 233,851.218 Easting: 471,211.922 Ortho H: 160.382 meters

Northing: 767,226.869 Easting: 1,545,967.780 Ortho H: 526.187 US Survey FT

UTM Zone 15 meters

Northing: 4,034,083.273 Easting: 660,814.695

Description: bare, center of Diles Creek Rd & King Rd intersection

Arkansas LiDAR – Northern Section



Station Name: GCP61 GPSID: 15001CK USGS Quad: RAVENDEN SPRINGS

NAD 1983 (2011)/ NAVD 1988 Ortho Heights

Latitude: 36°21'52.94102" N Longitude: 91°14'26.73059" W Ellip H: 95.065 meters

Arkansas North Zone State Plane Coordinates

Northing: 225,636.606	Easting: 468,140.703	Ortho H: 123.523 meters
Northing: 740,276.097	Easting: 1,535,891.624	Ortho H: 405.258 US Survey FT

UTM Zone 15 meters

Northing: 4,025,837.843 Easting: 657,830.418

Description: low brush, on the northeast corner of Upper Janes Creek Rd & Lower Janes Creek Rd intersection

Arkansas LiDAR – Northern Section



Station Name: GCP62 GPSID: 15001CL USGS Quad: RAVENDEN SPRINGS SE

NAD 1983 (2011)/ NAVD 1988 Ortho Heights

Latitude: 36°21'14.13915" N Longitude: 91°05'39.56146" W Ellip H: 73.818 meters

Arkansas North Zone State Plane Coordinates

Northing: 224,551.715 Easting: 481,293.748 Ortho H: 102.286 meters

Northing: 736,716.750 Easting: 1,579,044.571 Ortho H: 335.583 US Survey FT

UTM Zone 15 meters

Northing: 4,024,891.343 Easting: 670,992.899

Description: gravel, on the northeast quad of the SR93 & SR90 intersection

Arkansas LiDAR – Northern Section



Station Name: GCP63 GPSID: 15001CM USGS Quad: POCAHONTAS

NAD 1983 (2011)/ NAVD 1988 Ortho Heights

Latitude: 36°21'20.42012" N Longitude: 90°55'27.25554" W Ellip H: 76.328 meters

Arkansas North Zone State Plane Coordinates

Northing: 224,898.923 Easting: 496,557.928 Ortho H: 104.828 meters

Northing: 737,855.883 Easting: 1,629,123.803 Ortho H: 343.923 US Survey FT

UTM Zone 15 meters

Northing: 4,025,399.392 Easting: 686,252.071

Description: grass, on the north side of CR166, just west of a fence line

Arkansas LiDAR – Northern Section



Station Name: GCP64 GPSID: 15001CN USGS Quad: DATTO

NAD 1983 (2011)/ NAVD 1988 Ortho Heights

Latitude: 36°23'34.22680" N Longitude: 90°43'50.89840" W Ellip H: 59.483 meters

Arkansas North Zone State Plane Coordinates

Northing: 229,229.891 Easting: 513,865.931 Ortho H: 88.132 meters

Northing: 752,065.066 Easting: 1,685,908.475 Ortho H: 289.146 US Survey FT

UTM Zone 15 meters

Northing: 4,029,913.512 Easting: 703,513.899

Description: grass, north side of Loren St & east of 1st St

Arkansas LiDAR – Northern Section



Station Name: GCP65 GPSID: 15001CO USGS Quad: RAVENDEN SPRINGS

NAD 1983 (2011)/ NAVD 1988 Ortho Heights

Latitude: 36°15'57.09369" N Longitude: 91°14'49.24451" W Ellip H: 143.224 meters

Arkansas North Zone State Plane Coordinates

Northing: 214,663.940 Easting: 467,663.321 Ortho H: 171.579 meters

Northing: 704,276.611 Easting: 1,534,325.412 Ortho H: 562.922 US Survey FT

UTM Zone 15 meters

Northing: 4,014,861.999 Easting: 657,468.054

Description: bare, southeast dirt area of SR90 & Wyatt Rd intersection

Arkansas LiDAR – Northern Section



Station Name: GCP66 GPSID: 15001CP USGS Quad: NOLAND

NAD 1983 (2011)/ NAVD 1988 Ortho Heights

Latitude: 36°14'38.87680" N Longitude: 91°04'26.84522" W Ellip H: 70.861 meters

Arkansas North Zone State Plane Coordinates

Northing: 212,385.584	Easting: 483,221.320	Ortho H: 99.150 meters
Northing: 696,801.703	Easting: 1,585,368.612	Ortho H: 325.295 US Survey FT

UTM Zone 15 meters

Northing: 4,012,746.716 Easting: 673,047.989

Description: gravel, on the south side of US62 just west of a café parking area

Arkansas LiDAR – Northern Section



Station Name: GCP67 GPSID: 15001CQ USGS Quad: REYNO

NAD 1983 (2011)/ NAVD 1988 Ortho Heights

Latitude: 36°19'15.55075" N Longitude: 90°49'26.88623" W Ellip H: 55.809 meters

Arkansas North Zone State Plane Coordinates

Northing: 221,152.909	Easting: 505,588.459	Ortho H: 84.273 meters
Northing: 725,565.835	Easting: 1,658,751.470	Ortho H: 276.486 US Survey FT

UTM Zone 15 meters

Northing: 4,021,748.833 Easting: 695,321.884

Description: grass, on the west side of Windmill Rd & south of Biggers Reyno Rd

Arkansas LiDAR – Northern Section



Station Name: GCP68 GPSID: 15001CR USGS Quad: MANSON

NAD 1983 (2011)/ NAVD 1988 Ortho Heights

Latitude: 36°13'23.06703" N Longitude: 90°55'52.20955" W Ellip H: 52.842 meters

Arkansas North Zone State Plane Coordinates

Northing: 210,179.178 Easting: 496,095.499 Ortho H: 81.127 meters

Northing: 689,562.853 Easting: 1,627,606.651 Ortho H: 266.164 US Survey FT

UTM Zone 15 meters

Northing: 4,010,675.376 Easting: 685,944.550

Description: bare, on the north edge of Martin Rd at a field track headed north

Arkansas LiDAR – Northern Section



Station Name: GCP69 GPSID: 15001CS USGS Quad: O'KEAN

NAD 1983 (2011)/ NAVD 1988 Ortho Heights

Latitude: 36°12'42.23767" N Longitude: 90°50'42.12683" W Ellip H: 55.706 meters

Arkansas North Zone State Plane Coordinates

Northing: 209,008.232 Easting: 503,853.988 Ortho H: 84.029 meters

Northing: 685,721.174 Easting: 1,653,060.958 Ortho H: 275.685 US Survey FT

UTM Zone 15 meters

Northing: 4,009,585.848 Easting: 693,715.264

Description: grass, east side of CR231 at the northwest intersection of two field tracks

Arkansas LiDAR – Northern Section



Station Name: GCP70 GPSID: 15001CT USGS Quad: NOLAND

NAD 1983 (2011)/ NAVD 1988 Ortho Heights

Latitude: 36°08'01.02441" N Longitude: 91°06'21.73259" W Ellip H: 74.456 meters

Arkansas North Zone State Plane Coordinates

Northing: 200,096.712	Easting: 480,464.257	Ortho H: 102.627 meters
Northing: 656,483.961	Easting: 1,576,323.151	Ortho H: 336.702 US Survey FT

UTM Zone 15 meters

Northing: 4,000,430.063 Easting: 670,419.518

Description: sparse grass, on the north side of CR216

Arkansas LiDAR – Northern Section



Station Name: GCP71 GPSID: 15001CU USGS Quad: SMITHVILLE

NAD 1983 (2011)/ NAVD 1988 Ortho Heights

Latitude: 36°04'15.07745" N Longitude: 91°15'02.66417" W Ellip H: 84.478 meters

Arkansas North Zone State Plane Coordinates

Northing: 193,024.150 Easting: 467,493.011 Ortho H: 112.650 meters

Northing: 633,280.066 Easting: 1,533,766.653 Ortho H: 369.586 US Survey FT

UTM Zone 15 meters

Northing: 3,993,223.397 Easting: 657,523.063

Description: low brush, open area on the northeast side of CR269

Arkansas LiDAR – Northern Section



Station Name: GCP72 GPSID: 15001CV USGS Quad: BLACK ROCK

NAD 1983 (2011)/ NAVD 1988 Ortho Heights

Latitude: 36°02'04.32683" N Longitude: 91°05'00.23447" W Ellip H: 51.373 meters

Arkansas North Zone State Plane Coordinates

Northing: 189,121.940	Easting: 482,604.186	Ortho H: 79.440 meters
Northing: 620,477.565	Easting: 1,583,343.901	Ortho H: 260.629 US Survey FT

UTM Zone 15 meters

Northing: 3,989,478.256 Easting: 672,673.397

Description: grass area, on the east side of CR511 & south side of CR516 & opposite a grain storage facility

Arkansas LiDAR – Northern Section



Station Name: GCP73 GPSID: 15001CW USGS Quad: WALNUT RIDGE

NAD 1983 (2011)/ NAVD 1988 Ortho Heights

Latitude: 36°05'16.05069" N Longitude: 90°55'44.19355" W Ellip H: 53.301 meters

Arkansas North Zone State Plane Coordinates

Northing: 195,171.274 Easting: 496,458.967 Ortho H: 81.374 meters

Northing: 640,324.422 Easting: 1,628,799.126 Ortho H: 266.975 US Survey FT

UTM Zone 15 meters

Northing: 3,995,671.470 Easting: 686,464.909

Description: grass, on the east side of SR34, south of CR612 and west of RR

Arkansas LiDAR – Northern Section



Station Name: GCP74 GPSID: 15001CX USGS Quad: CAVE CITY

NAD 1983 (2011)/ NAVD 1988 Ortho Heights

Latitude: 35°57'30.50049" N Longitude: 91°33'54.94958" W Ellip H: 167.742 meters

Arkansas North Zone State Plane Coordinates

Northing: 180,384.495	Easting: 439,216.156	Ortho H: 195.620 meters
Northing: 591,811.462	Easting: 1,440,995.005	Ortho H: 641.797 US Survey FT

UTM Zone 15 meters

Northing: 3,980,293.772 Easting: 629,381.360

Description: grass, on the south side of Jackson Springs Rd & north shore of Upper Lake of Green Acres

Arkansas LiDAR – Northern Section



Station Name: GCP75 GPSID: 15001CY USGS Quad: STRAWBERRY

NAD 1983 (2011)/ NAVD 1988 Ortho Heights

Latitude: 35°54'46.19366" N Longitude: 91°17'24.72701" W Ellip H: 52.871 meters

Arkansas North Zone State Plane Coordinates

Northing: 175,464.863	Easting: 464,064.756	Ortho H: 80.864 meters
Northing: 575,670.971	Easting: 1,522,519.120	Ortho H: 265.301 US Survey FT

UTM Zone 15 meters

Northing: 3,975,630.711 Easting: 654,276.646

Description: gravel, east side of SR25 in front of the Saffell Fire Station

Arkansas LiDAR – Northern Section



Station Name: GCP76 GPSID: 15001CZ USGS Quad: ALICIA

NAD 1983 (2011)/ NAVD 1988 Ortho Heights

Latitude: 35°55'14.71981" N Longitude: 91°05'37.38280" W Ellip H: 50.007 meters

Arkansas North Zone State Plane Coordinates

Northing: 176,489.539	Easting: 481,790.461	Ortho H: 77.967 meters
Northing: 579,032.762	Easting: 1,580,674.205	Ortho H: 255.797 US Survey FT

UTM Zone 15 meters

Northing: 3,976,838.031 Easting: 671,990.413

Description: grass area, on the southwest side of CR547 on the outside of a 90 degree bend

Arkansas LiDAR – Northern Section



Station Name: GCP77 GPSID: 15001DA USGS Quad: ALICIA

NAD 1983 (2011)/ NAVD 1988 Ortho Heights

Latitude: 35°58'52.56057" N Longitude: 91°01'24.24347" W Ellip H: 50.818 meters

Arkansas North Zone State Plane Coordinates

Northing: 183,263.812	Easting: 488,069.613	Ortho H: 78.800 meters
Northing: 601,258.025	Easting: 1,601,275.056	Ortho H: 258.530 US Survey FT

UTM Zone 15 meters

Northing: 3,983,676.997 Easting: 678,199.336

Description: gravel, on the east side of US67 & on the north side of a private dirt drive

Arkansas LiDAR – Northern Section



Station Name: GCP78 GPSID: 15001DB USGS Quad: PODO CREEK

NAD 1983 (2011)/ NAVD 1988 Ortho Heights

Latitude: 35°56'51.16698" N Longitude: 90°56'17.58067" W Ellip H: 51.741 meters

Arkansas North Zone State Plane Coordinates

Northing: 179,602.138 Easting: 495,791.568 Ortho H: 79.653 meters

Northing: 589,244.681 Easting: 1,626,609.502 Ortho H: 261.328 US Survey FT

UTM Zone 15 meters

Northing: 3,980,095.269 Easting: 685,959.173

Description: grass area, on the south side of CR720 between a field and a demolished house

Arkansas LiDAR – Northern Section



Station Name: GCP79 GPSID: 15001DC USGS Quad: GRANGE

NAD 1983 (2011)/ NAVD 1988 Ortho Heights

Latitude: 35°56'25.24934" N Longitude: 91°27'45.05141" W Ellip H: 129.860 meters

Arkansas North Zone State Plane Coordinates

Northing: 178,419.222 Easting: 448,495.751 Ortho H: 157.794 meters

Northing: 585,363.729 Easting: 1,471,439.811 Ortho H: 517.696 US Survey FT

UTM Zone 15 meters

Northing: 3,978,424.363 Easting: 638,679.438

Description: sparse grass, on east side of CR41 just south of a new trail

Arkansas LiDAR – Northern Section



Station Name: GCP80 GPSID: 15001DD USGS Quad: SULPHUR ROCK

NAD 1983 (2011)/ NAVD 1988 Ortho Heights

Latitude: 35°51'21.25517" N Longitude: 91°34'05.31111" W Ellip H: 129.977 meters

Arkansas North Zone State Plane Coordinates

Northing: 169,003.326 Easting: 439,006.437 Ortho H: 157.696 meters

Northing: 554,471.746 Easting: 1,440,306.952 Ortho H: 517.374 US Survey FT

UTM Zone 15 meters

Northing: 3,968,912.710 Easting: 629,288.578

Description: bare, dirt parking on the north side of US167 & west side of Weaver Chapel Rd

Arkansas LiDAR – Northern Section



Station Name: GCP81 GPSID: 15001DE USGS Quad: CHARLOTTE

NAD 1983 (2011)/ NAVD 1988 Ortho Heights

Latitude: 35°51'43.07498" N Longitude: 91°24'12.67288" W Ellip H: 99.087 meters

Arkansas North Zone State Plane Coordinates

Northing: 169,753.437 Easting: 453,871.230 Ortho H: 126.937 meters

Northing: 556,932.733 Easting: 1,489,075.861 Ortho H: 416.459 US Survey FT

UTM Zone 15 meters

Northing: 3,969,815.205 Easting: 644,143.155

Description: bare, asphalt/gravel at the centerline intersection of Shamrock Lane & Ross Lane

Arkansas LiDAR – Northern Section



Station Name: GCP82 GPSID: 15001DF USGS Quad: CORD

NAD 1983 (2011)/ NAVD 1988 Ortho Heights

Latitude: 35°51'03.53942" N Longitude: 91°15'12.57535" W Ellip H: 42.187 meters

Arkansas North Zone State Plane Coordinates

Northing: 168,627.408	Easting: 467,429.972	Ortho H: 70.072 meters
Northing: 553,238.420	Easting: 1,533,559.832	Ortho H: 229.895 US Survey FT

UTM Zone 15 meters

Northing: 3,968,828.572 Easting: 657,711.848

Description: bare, intersection of field tracks on the north side of Upper Lockhart Rd

Arkansas LiDAR – Northern Section



Station Name: GCP83 GPSID: 15001DG USGS Quad: STRANGERS HOME

NAD 1983 (2011)/ NAVD 1988 Ortho Heights

Latitude: 35°53'07.37432" N Longitude: 91°09'13.58619" W Ellip H: 48.499 meters

Arkansas North Zone State Plane Coordinates

Northing: 172,516.668 Easting: 476,404.333 Ortho H: 76.430 meters

Northing: 565,998.436 Easting: 1,563,003.216 Ortho H: 250.754 US Survey FT

UTM Zone 15 meters

Northing: 3,972,809.842 Easting: 666,645.514

Description: grass, north side of CR87 & just west of a canal

Arkansas LiDAR – Northern Section



Station Name: GCP84 GPSID: 15001DH USGS Quad: SALADO

NAD 1983 (2011)/ NAVD 1988 Ortho Heights

Latitude: 35°44'03.51106" N Longitude: 91°34'09.78930" W Ellip H: 58.524 meters

Arkansas North Zone State Plane Coordinates

Northing: 155,512.071	Easting: 438,953.082	Ortho H: 86.077 meters
Northing: 510,209.185	Easting: 1,440,131.904	Ortho H: 282.404 US Survey FT

UTM Zone 15 meters

Northing: 3,955,423.460 Easting: 629,373.264

Description: sparse, north side of SR394

Arkansas LiDAR – Northern Section



Station Name: GCP85 GPSID: 15001DI USGS Quad: CHARLOTTE

NAD 1983 (2011)/ NAVD 1988 Ortho Heights

Latitude: 35°46'05.62858" N Longitude: 91°23'20.78237" W Ellip H: 62.421 meters

Arkansas North Zone State Plane Coordinates

Northing: 159,361.766	Easting: 455,237.544	Ortho H: 90.125 meters
Northing: 522,839.394	Easting: 1,493,558.508	Ortho H: 295.685 US Survey FT

UTM Zone 15 meters

Northing: 3,959,438.973 Easting: 645,615.789

Description: low grass, on the east side of SR122 in a field

Arkansas LiDAR – Northern Section



Station Name: GCP86 GPSID: 15001DJ USGS Quad: TUCKERMAN

NAD 1983 (2011)/ NAVD 1988 Ortho Heights

Latitude: 35°44'52.73045" N Longitude: 91°09'21.36298" W Ellip H: 44.875 meters

Arkansas North Zone State Plane Coordinates

Northing: 157,270.983 Easting: 476,339.976 Ortho H: 72.571 meters

Northing: 515,979.883 Easting: 1,562,792.071 Ortho H: 238.093 US Survey FT

UTM Zone 15 meters

Northing: 3,957,564.329 Easting: 666,737.677

Description: sparse, north side of CR224 & east of a canal

Arkansas LiDAR – Northern Section



Station Name: GCP87 GPSID: 15001DK USGS Quad: SALADO

NAD 1983 (2011)/ NAVD 1988 Ortho Heights

Latitude: 35°41'27.46087" N Longitude: 91°33'52.78797" W Ellip H: 49.168 meters

Arkansas North Zone State Plane Coordinates

Northing: 150,704.752	Easting: 439,401.545	Ortho H: 76.649 meters
Northing: 494,437.175	Easting: 1,441,603.236	Ortho H: 251.473 US Survey FT

UTM Zone 15 meters

Northing: 3,950,621.599 Easting: 629,870.690

Description: grass, south side of SR14 at field track access & opposite Buckeye Ln

Arkansas LiDAR – Northern Section



Station Name: GCP87A GPSID: 15001DO USGS Quad: SALADO

NAD 1983 (2011)/ NAVD 1988 Ortho Heights

Latitude: 35°38'10.98099" N Longitude: 91°30'10.49588" W Ellip H: 46.347 meters

Arkansas North Zone State Plane Coordinates

Northing: 144,676.121 Easting: 445,020.753 Ortho H: 73.744 meters

Northing: 474,658.239 Easting: 1,460,038.920 Ortho H: 241.942 US Survey FT

UTM Zone 15 meters

Northing: 3,944,651.237 Easting: 635,550.338

Description: grass, north side of SR14 & east side of parking lot for Maple Springs Church

Arkansas LiDAR – Northern Section



Station Name: GCP88 GPSID: 15001DL USGS Quad: NEWARK

NAD 1983 (2011)/ NAVD 1988 Ortho Heights

Latitude: 35°38'15.67395" N Longitude: 91°22'58.85207" W Ellip H: 40.534 meters

Arkansas North Zone State Plane Coordinates

Northing: 144,882.180 Easting: 455,879.112 Ortho H: 67.996 meters

Northing: 475,334.287 Easting: 1,495,663.386 Ortho H: 223.084 US Survey FT

UTM Zone 15 meters

Northing: 3,944,967.783 Easting: 646,405.045

Description: bare, east edge of Wall Lake Rd along field edge

Arkansas LiDAR – Northern Section



Station Name: GCP89 GPSID: 15001DM USGS Quad: TUCKERMAN

NAD 1983 (2011)/ NAVD 1988 Ortho Heights

Latitude: 35°37'40.23269" N Longitude: 91°14'44.39837" W Ellip H: 43.405 meters

Arkansas North Zone State Plane Coordinates

Northing: 143,876.603	Easting: 468,326.607	Ortho H: 70.940 meters
Northing: 472,035.155	Easting: 1,536,501.542	Ortho H: 232.742 US Survey FT

UTM Zone 15 meters

Northing: 3,944,089.010 Easting: 658,861.520

Description: grass, just north of Mimosa Ln extended and west edge of cotton fields

Arkansas LiDAR – Northern Section



Station Name: GCP90 GPSID: 15001DN USGS Quad: TUCKERMAN

NAD 1983 (2011)/ NAVD 1988 Ortho Heights

Latitude: 35°37'59.52747" N Longitude: 91°09'27.95333" W Ellip H: 43.331 meters

Arkansas North Zone State Plane Coordinates

Northing: 144,535.761 Easting: 476,283.335 Ortho H: 70.881 meters

Northing: 474,197.741 Easting: 1,562,606.241 Ortho H: 232.549 US Survey FT

UTM Zone 15 meters

Northing: 3,944,829.130 Easting: 666,811.050

Description: bare, east side of a field road & a canal & south of an irrigation pump

REPORT OF SURVEY – REVISED

2 March 2015

FEMA Region 6 – Arkansas QL2 LiDAR

Lower Black Watershed – Blocks NEL & NEU

QC Stations

Arkansas LiDAR – Northern Section



Station Name: OPEN1 GPSID: 15001FO USGS Quad: POCAHONTAS

NAD 1983 (2011)/ NAVD 1988 Ortho Heights

Latitude: 36°16'42.05080" N Longitude: 90°58'47.79172" W Ellip H: 88.941 meters

Arkansas North Zone State Plane Coordinates

Northing: 216,265.680 Easting: 491,647.096 Ortho H: 117.281 meters

Northing: 709,531.653 Easting: 1,613,012.182 Ortho H: 384.779 US Survey FT

UTM Zone 15 meters

Northing: 4,016,714.919 Easting: 681,432.442

Description: sparse grass, north side of SR115 at the entrance to Randolph County Fairgrounds

Arkansas LiDAR – Northern Section



Station Name: OPEN2 GPSID: 15001FP USGS Quad: HARDY NE

NAD 1983 (2011)/ NAVD 1988 Ortho Heights

Latitude: 36°24'41.49908" N Longitude: 91°16'18.35057" W Ellip H: 122.512 meters

Arkansas North Zone State Plane Coordinates

Northing: 230,811.248 Easting: 465,319.629 Ortho H: 151.009 meters

Northing: 757,253.235 Easting: 1,526,636.150 Ortho H: 495.435 US Survey FT

UTM Zone 15 meters

Northing: 4,030,981.880 Easting: 654,955.522

Description: grass, field on the east side of Upper Janes Creek Rd

Arkansas LiDAR – Northern Section



Station Name: OPEN3 GPSID: 15001FQ USGS Quad: EATON

NAD 1983 (2011)/ NAVD 1988 Ortho Heights

Latitude: 36°05'20.64825" N Longitude: 91°07'51.09532" W Ellip H: 91.004 meters

Arkansas North Zone State Plane Coordinates

Northing: 195,133.811 Easting: 478,273.670 Ortho H: 119.144 meters

Northing: 640,201.512 Easting: 1,569,136.199 Ortho H: 390.892 US Survey FT

UTM Zone 15 meters

Northing: 3,995,444.761 Easting: 668,280.743

Description: gravel, area around a cell tower on the south side of SR117 & west of a drive

Arkansas LiDAR – Northern Section



Station Name: OPEN4 GPSID: 15001FS USGS Quad: CAVE CITY

NAD 1983 (2011)/ NAVD 1988 Ortho Heights

Latitude: 35°56'05.74099" N Longitude: 91°32'34.34921" W Ellip H: 164.550 meters

Arkansas North Zone State Plane Coordinates

Northing: 177,781.355 Easting: 441,247.909 Ortho H: 192.406 meters

Northing: 583,270.997 Easting: 1,447,660.846 Ortho H: 631.252 US Survey FT

UTM Zone 15 meters

Northing: 3,977,712.050 Easting: 631,439.484

Description: grass, vacant lot on the east side of Welcome Ln & south of East Patterson Ln

Arkansas LiDAR – Northern Section



Station Name: OPEN5 GPSID: 15001FR USGS Quad: CHARLOTTE

NAD 1983 (2011)/ NAVD 1988 Ortho Heights

Latitude: 35°49'17.26967" N Longitude: 91°26'16.75198" W Ellip H: 81.288 meters

Arkansas North Zone State Plane Coordinates

Northing: 165,241.555 Easting: 450,784.070 Ortho H: 109.048 meters

Northing: 542,130.003 Easting: 1,478,947.403 Ortho H: 357.768 US Survey FT

UTM Zone 15 meters

Northing: 3,965,272.323 Easting: 641,102.736

Description: gravel, parking for Jerrel Lillard Fields on the east side of School Rd

Arkansas LiDAR – Northern Section



Station Name: OPEN6 GPSID: 15001FT USGS Quad: SULPHUR ROCK

NAD 1983 (2011)/ NAVD 1988 Ortho Heights

Latitude: 35°45'30.46456" N Longitude: 91°30'00.99881" W Ellip H: 87.928 meters

Arkansas North Zone State Plane Coordinates

Northing: 158,221.372	Easting: 445,190.941	Ortho H: 115.533 meters
Northing: 519,097.950	Easting: 1,460,597.278	Ortho H: 379.045 US Survey FT

UTM Zone 15 meters

Northing: 3,958,196.008 Easting: 635,582.349

Description: grass, on the east side of N Main St & west of a drive for Sulphur Rock School opposite the athletic fields

Arkansas LiDAR – Northern Section



Station Name: OPEN7 GPSID: 15001FU USGS Quad: NEWARK

NAD 1983 (2011)/ NAVD 1988 Ortho Heights

Latitude: 35°41'26.31707" N Longitude: 91°27'13.76237" W Ellip H: 45.487 meters

Arkansas North Zone State Plane Coordinates

Northing: 150,719.504 Easting: 449,433.619 Ortho H: 72.986 meters

Northing: 494,485.571 Easting: 1,474,516.798 Ortho H: 239.455 US Survey FT

UTM Zone 15 meters

Northing: 3,950,738.638 Easting: 639,900.954

Description: bare, on the west side of SR69 at intersection of field tracks, just north of a canal

Arkansas LiDAR – Northern Section



Station Name: TALL1 GPSID: 15001ES USGS Quad: PODO CREEK

NAD 1983 (2011)/ NAVD 1988 Ortho Heights

Latitude: 35°57'34.36549" N Longitude: 90°58'52.69347" W Ellip H: 50.394 meters

Arkansas North Zone State Plane Coordinates

Northing: 180,892.394 Easting: 491,890.738 Ortho H: 78.335 meters

Northing: 593,477.795 Easting: 1,613,811.529 Ortho H: 257.004 US Survey FT

UTM Zone 15 meters

Northing: 3,981,345.166 Easting: 682,044.964

Description: tall brush, south of CR716 & west of CR721, a highway under construction

Arkansas LiDAR – Northern Section



Station Name: TALL2 GPSID: 15001ER USGS Quad: MANSON

NAD 1983 (2011)/ NAVD 1988 Ortho Heights

Latitude: 36°08'31.91878" N Longitude: 90°59'49.41907" W Ellip H: 53.074 meters

Arkansas North Zone State Plane Coordinates

Northing: 201,143.375	Easting: 490,262.998	Ortho H: 81.222 meters
Northing: 659,917.889	Easting: 1,608,471.187	Ortho H: 266.476 US Survey FT

UTM Zone 15 meters

Northing: 4,001,578.840 Easting: 680,206.776

Description: crops, on the north side of CR400 & west of a canal

Arkansas LiDAR – Northern Section



Station Name: TALL3 GPSID: 15001EO USGS Quad: DATTO

NAD 1983 (2011)/ NAVD 1988 Ortho Heights

Latitude: 36°27'23.32899" N Longitude: 90°41'07.58700" W Ellip H: 59.695 meters

Arkansas North Zone State Plane Coordinates

Northing: 236,344.844 Easting: 517,841.271 Ortho H: 88.533 meters

Northing: 775,408.041 Easting: 1,698,950.902 Ortho H: 290.462 US Survey FT

UTM Zone 15 meters

Northing: 4,037,070.904 Easting: 707,413.618

Description: crops, north side of SR328 & west of a north field track road

Arkansas LiDAR – Northern Section



Station Name: TALL4 GPSID: 15001EP USGS Quad: SUPPLY

NAD 1983 (2011)/ NAVD 1988 Ortho Heights

Latitude: 36°23'27.98883" N Longitude: 90°47'07.33193" W Ellip H: 57.513 meters

Arkansas North Zone State Plane Coordinates

Northing: 228,975.875 Easting: 508,973.265 Ortho H: 86.155 meters

Northing: 751,231.685 Easting: 1,669,856.452 Ortho H: 282.660 US Survey FT

UTM Zone 15 meters

Northing: 4,029,607.580 Easting: 698,623.896

Description: crops, on the east side of SR328, just north of a field track road

Arkansas LiDAR – Northern Section



Station Name: TALL5 GPSID: 15001EQ USGS Quad: SUPPLY

NAD 1983 (2011)/ NAVD 1988 Ortho Heights

Latitude: 36°24'58.60949" N Longitude: 90°52'28.28089" W Ellip H: 80.135 meters

Arkansas North Zone State Plane Coordinates

Northing: 231,674.046	Easting: 500,943.182	Ortho H: 108.820 meters
Northing: 760,083.932	Easting: 1,643,511.088	Ortho H: 357.020 US Survey FT

UTM Zone 15 meters

Northing: 4,032,220.545 Easting: 690,565.431

Description: brush, east side of SR328, just north of the House of Prayers Church

Arkansas LiDAR – Northern Section



Station Name: TALL6 GPSID: 15001EU USGS Quad: CORD

NAD 1983 (2011)/ NAVD 1988 Ortho Heights

Latitude: 35°48'42.25894" N Longitude: 91°20'36.24596" W Ellip H: 74.252 meters

Arkansas North Zone State Plane Coordinates

Northing: 164,215.463	Easting: 459,337.941	Ortho H: 102.062 meters
Northing: 538,763.564	Easting: 1,507,011.226	Ortho H: 334.848 US Survey FT

UTM Zone 15 meters

Northing: 3,964,334.051 Easting: 649,665.959

Description: tall brush, on the east side of SR122, south of Hopewell Rd & a concrete foundation & west of a dirt road

Arkansas LiDAR – Northern Section



Station Name: TALL7 GPSID: 15001ET USGS Quad: CORD

NAD 1983 (2011)/ NAVD 1988 Ortho Heights

Latitude: 35°46'15.98751" N Longitude: 91°15'52.11816" W Ellip H: 45.112 meters

Arkansas North Zone State Plane Coordinates

Northing: 159,758.056 Easting: 466,504.024 Ortho H: 72.861 meters

Northing: 524,139.556 Easting: 1,530,521.952 Ortho H: 239.045 US Survey FT

UTM Zone 15 meters

Northing: 3,959,950.535 Easting: 656,876.956

Description: tall brush, on the west side of CR66 just south of a 90 degree bend

Arkansas LiDAR – Northern Section



Station Name: WOODS1 GPSID: 15001GR USGS Quad: RAVENDEN SPRINGS SE

NAD 1983 (2011)/ NAVD 1988 Ortho Heights

Latitude: 36°21'58.66631" N Longitude: 91°00'01.49826" W Ellip H: 83.481 meters

Arkansas North Zone State Plane Coordinates

Northing: 226,005.729 Easting: 489,708.596 Ortho H: 111.981 meters

Northing: 741,487.128 Easting: 1,606,652.285 Ortho H: 367.391 US Survey FT

UTM Zone 15 meters

Northing: 4,026,433.847 Easting: 679,391.549

Description: woods, on the north side of Broadway St & east of SR251

Arkansas LiDAR – Northern Section



Station Name: WOODS2 GPSID: 15001GO USGS Quad: BARDLEY

NAD 1983 (2011)/ NAVD 1988 Ortho Heights

Latitude: 36°39'07.91433" N Longitude: 91°01'27.66068" W Ellip H: 218.624 meters

Arkansas North Zone State Plane Coordinates

Northing: 257,710.892	Easting: 487,246.305	Ortho H: 247.891 meters
Northing: 845,506.486	Easting: 1,598,573.918	Ortho H: 813.289 US Survey FT

Missouri East Zone State Plane Coordinates

Northing: 90,986.153	Easting: 203,117.930	Ortho H: 247.891 meters
Northing: 298,510.404	Easting: 666,396.075	Ortho H: 813.289 US Survey FT

UTM Zone 15 meters

Northing: 4,058,108.654 Easting: 676,593.095

Description: woods, north side of US160

Arkansas LiDAR – Northern Section



Station Name: WOODS3 GPSID: 15001GP USGS Quad: GATEWOOD

NAD 1983 (2011)/ NAVD 1988 Ortho Heights

Latitude: 36°30'20.40535" N Longitude: 91°02'16.92395" W Ellip H: 158.574 meters

Arkansas North Zone State Plane Coordinates

Northing: 241,437.785 Easting: 486,181.519 Ortho H: 187.487 meters

Northing: 792,117.133 Easting: 1,595,080.534 Ortho H: 615.114 US Survey FT

Missouri East Zone State Plane Coordinates

Northing: 74,733.369 Easting: 201,803.421 Ortho H: 187.487 meters

Northing: 245,187.728 Easting: 662,083.390 Ortho H: 615.114 US Survey FT

UTM Zone 15 meters

Northing: 4,041,826.839 Easting: 675,701.662

Description: woods, southwest quad of FR53 & FR54 intersection

Arkansas LiDAR – Northern Section



Station Name: WOODS4 GPSID: 15001GQ USGS Quad: GATEWOOD

NAD 1983 (2011)/ NAVD 1988 Ortho Heights

Latitude: 36°33'27.48580" N Longitude: 91°00'17.88506" W Ellip H: 139.995 meters

Arkansas North Zone State Plane Coordinates

Northing: 247,234.045 Easting: 489,085.522 Ortho H: 169.067 meters

Northing: 811,133.697 Easting: 1,604,608.084 Ortho H: 554.681 US Survey FT

Missouri East Zone State Plane Coordinates

Northing: 80,483.708 Easting: 204,795.748 Ortho H: 169.067 meters

Northing: 264,053.632 Easting: 671,900.716 Ortho H: 554.681 US Survey FT

UTM Zone 15 meters

Northing: 4,047,653.119 Easting: 678,543.684

Description: woods, east side of SR P & opposite a brush field

Arkansas LiDAR – Northern Section



Station Name: WOODS5 GPSID: 15001GS USGS Quad: RAVENDEN SPRINGS SE

NAD 1983 (2011)/ NAVD 1988 Ortho Heights

Latitude: 36°17'18.43848" N Longitude: 91°06'19.97340" W Ellip H: 72.530 meters

Arkansas North Zone State Plane Coordinates

Northing: 217,277.525 Easting: 480,352.167 Ortho H: 100.890 meters

Northing: 712,851.347 Easting: 1,575,955.402 Ortho H: 331.003 US Survey FT

UTM Zone 15 meters

Northing: 4,017,608.101 Easting: 670,127.845

Description: woods, on the north side of Valley Chapel Rd & west of Blacks Ferry Rd

Arkansas LiDAR – Northern Section



Station Name: WOODS6 GPSID: 15001GT USGS Quad: IMBODEN

NAD 1983 (2011)/ NAVD 1988 Ortho Heights

Latitude: 36°10'04.69283" N Longitude: 91°11'40.25271" W Ellip H: 116.042 meters

Arkansas North Zone State Plane Coordinates

Northing: 203,839.597	Easting: 472,469.511	Ortho H: 144.269 meters
Northing: 668,763.744	Easting: 1,550,093.719	Ortho H: 473.323 US Survey FT

UTM Zone 15 meters

Northing: 4,004,089.290 Easting: 662,386.558

Description: woods, north side of CR204 & west side of powerline ROW

Arkansas LiDAR – Northern Section



Station Name: WOODS7 GPSID: 15001GU USGS Quad: GRANGE

NAD 1983 (2011)/ NAVD 1988 Ortho Heights

Latitude: 35°53'28.88745" N Longitude: 91°24'47.26048" W Ellip H: 123.631 meters

Arkansas North Zone State Plane Coordinates

Northing: 173,009.277	Easting: 452,984.084	Ortho H: 151.519 meters
Northing: 567,614.603	Easting: 1,486,165.283	Ortho H: 497.109 US Survey FT

UTM Zone 15 meters

Northing: 3,973,061.453 Easting: 643,222.693

Description: woods, southwest corner of Wildcat Rd & N Charlotte Rd intersection