



# Jefferson Lab Alignment Group

## Data Transmittal

**TO:** Mark Pitt

**DATE:** 08 Sep 2011

**FROM:** Kelly Tremblay

**Checked:**

**# :** C1406

**DETAILS:**

data: step2b\hallc\qweak\110726a

The Hall C region 2 detectors were surveyed July 26<sup>th</sup>, 2011. The results are shown below. The coordinate system origin is the Qweak target center, which is 6.0633 meters downstream of the standard Hall C target (pivot). Coordinates for the scattering chamber, qweak target and the standard target (pivot) in the Jefferson Lab coordinate are also shown below.

The results are in millimeters. The Z coordinates are along the beamline, downstream from the Qweak target. The +X coordinates are beam left, and the Y coordinates are positive up.

Point	Z (mm)	X (mm)	Y (mm)
R2BLD31	3473.95	153.27	287.95
R2BLD32	3473.18	224.65	215.52
R2BLD35	3471.06	653.37	459.58
R2BLD41	3474.41	292.98	-152.00
R2BLD42	3473.56	221.02	-223.91
R2BLD43	3473.56	149.09	-295.75
R2BLD51	3474.82	98.75	-315.02
R2BLD52	3473.93	-2.87	-314.29
R2BLD53	3473.94	-104.65	-313.57
R2BLU31	3045.79	124.54	260.40
R2BLU34	3044.63	448.16	611.82
R2BLU35	3044.14	625.78	429.91
R2BLU52	3045.81	-1.61	-274.17
R2BLU55	3044.67	-133.89	-749.70
R2BRD14	3466.95	-786.86	129.64
R2BRD15	3466.32	-788.17	-124.95
R2BRD24	3467.02	-787.82	125.03
R2BRD25	3466.37	-787.48	-129.12
R2BRD34	3467.03	-649.77	-465.84
R2BRD35	3466.45	-471.19	-646.80
R2BRD42	3465.44	-219.43	218.25
R2BRD43	3465.75	-291.23	146.29
R2BRD45	3466.19	-646.57	465.23
R2BRD51	3466.00	105.12	309.21

Point	Z (mm)	X (mm)	Y (mm)
R2BRD52	3465.64	3.46	309.92
R2BRD53	3465.99	-98.11	310.73
R2BRD55	3466.41	-119.78	787.59
R2BRU11	3039.13	-271.64	103.54
R2BRU12	3038.24	-272.00	1.85
R2BRU13	3038.49	-272.36	-99.92
R2BRU14	3041.03	-748.35	130.82
R2BRU15	3040.51	-749.29	-123.57
R2BRU21	3039.17	-272.63	102.43
R2BRU22	3038.28	-272.24	0.68
R2BRU23	3038.51	-272.00	-101.09
R2BRU24	3041.08	-749.53	126.44
R2BRU25	3040.53	-748.69	-127.93
R2BRU31	3039.26	-266.53	-120.63
R2BRU32	3038.41	-194.88	-192.83
R2BRU34	3041.15	-623.25	-438.02
R2BRU35	3040.67	-444.22	-618.77
R2BRU41	3039.32	-118.71	264.60
R2BRU42	3038.39	-190.41	192.40
R2BRU43	3038.58	-262.16	120.23
R2BRU44	3041.08	-438.99	618.71
R2BRU45	3040.40	-618.28	438.21
R2BRU52	3038.65	5.24	271.01
R2BRU53	3038.78	-96.45	271.54
R2BRU54	3041.21	135.51	746.95
R2BRU55	3040.58	-118.96	748.62
R2RRU11	3039.09	-272.29	103.50
R2RRU12	3038.21	-272.63	1.76
R2RRU13	3038.45	-273.05	-99.96
R2RRU14	3041.06	-749.00	130.85
R2RRU15	3040.51	-749.94	-123.50

Coordinates for the scattering chamber, Qweak target and standard Hall C target center (meters):

Target	Z(meters)	X(meters)	Y(meters)	dist from pivot
Scat Cham	-393.07332	-128.29149	99.98834	6.0255
Qweak	-393.10324	-128.31446	99.98834	6.0633
Standard	-388.29400	-124.62200	99.98834	