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MAR 11 2015

PUBLIC SERVICE  
COMMISSION

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March 10, 2015

**VIA UPS DELIVERY**

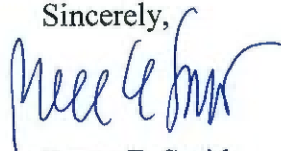
Mr. Jeff R. Derouen  
Executive Director  
Kentucky Public Service Commission  
211 Sower Boulevard  
Frankfort, Kentucky 40601

Re: Case No. 2014-00084  
Jessamine-South Elkhorn Water District CPCN Application

Dear Mr. Derouen:

Delivered under cover of this letter is an original and ten (10) copies of the Applicant's Notice of Filing and Jessamine-South Elkhorn Water District's Responses to Post Hearing Data Requests.

Sincerely,



Bruce E. Smith

Enclosures

cc: Robert M. Watt, III, Esq.  
Monica H. Braun, Esq.  
Jennifer Black Hans, Esq.  
Gregory T. Dutton, Esq.  
Stefanie Kingsley, Esq.  
Ann Ramser, Esq.  
Anthony G. Martin, Esq.

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MAR 11 2015

PUBLIC SERVICE  
COMMISSION

COMMONWEALTH OF KENTUCKY

BEFORE THE PUBLIC SERVICE COMMISSION

In the Matter of:

APPLICATION OF JESSAMINE-SOUTH ELKHORN )  
WATER DISTRICT FOR A CERTIFICATE OF )  
PUBLIC CONVENIENCE AND NECESSITY TO )  
CONSTRUCT AND FINANCE A WATERWORKS ) CASE NO 2014-00084  
IMPROVEMENTS PROJECT PURSUANT TO KRS )  
278.020 AND 278.300 )

JESSAMINE-SOUTH ELKHORN WATER DISTRICT'S RESPONSES  
TO POST HEARING DATA REQUESTS

Comes the Jessamine-South Elkhorn Water District ("Water District") and for its Responses to the Post Hearing Data Requests made on February 10-11, 2015, state as follows:

RESPONSES TO REQUESTS FOLLOW ON THE NEXT PAGE

*TAB 1: DALLAM B. HARPER, JR. RESPONSE*

*TABS 2 – 3: JOHN G. HORNE RESPONSES*

*TABS 4 – 6: L. CHRISTOPHER HORNE RESPONSES*

*TABS 7 – 8: L. NICHOLASVILLE STRONG RESPONSES*

## Jessamine-South Elkhorn Water District

**Dallam B. Harper, Jr. Request:** Provide work papers, calculations and source documents for the Maps on pages 3 and 4 of the Population Projections (electronic and formulas intact):

**Answer:** See attached Excel spreadsheets. Calculations of the population were derived from aggregate population totals of Census Blocks. Specifically, the data used for the calculations came from the US Census Bureau and the TIGER Geodatabases<sup>1</sup>, which provide geospatial representations of Census-defined geographies. In the attached spreadsheets denominated "BlockWhole.xls", you will see every Census Block that was used (in whole or in part) to calculate the population numbers within the Study Area.

Of course, the Study Area used for this map is not defined by the US Census Bureau. Therefore, while the majority of Census Blocks used for population calculation are completely within the Study Area, some Blocks were bisected by the eastern and southern boundary of the Study Area. Those blocks can be found in the attached spreadsheets denominated "BlockSplit.xls". Inside of the table are all Census Blocks that were split by the Study Area. To estimate the portion of the population lying inside of the

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<sup>1</sup> ARCGIS 10.3 for Desktop from ESRI, Inc. needed in order to read data at this site.

study area, a ratio calculation was used. Take the following as an example of how the population within the Study Area was calculated:

In 1990, Block 101B (STFID: 21113060101101B) in total has 823.65 Acres.

Of that, 73.26 Acres are within the Study Area. Therefore, the percentage of area inside the study area is 8.89% ( $73.26/823.65 \times 100$ ). The total population of Block 101B in 1990 was 54. So, applying the same percentage, the population of Block 101B inside the Study Area would be estimated at 4.8, or 5 ( $54 \times 0.089$ ).

The above calculation was used for all Census Blocks bisected by the Study Area boundary. In the attached spreadsheets, every split is shown, giving total areas in acres of both sides of the split. Parts inside of the Study Area are identified as "YES", while parts outside are labeled "NO".

Finally, some clarification is needed with respect to the maps. In both maps submitted, Census Block Groups are shown on the map and broken down by population in tables. The reason for the inclusion of Census Block Group data was to show growth within smaller areas. While Block Groups were shown on the maps, Census Block Groups were never used to calculate population totals. Block Groups were only used as a boundary to define areas of growth. All population totals were calculated using Census Blocks, not Block Groups.

In response to questioning at the hearing, I mistakenly stated that the Block Group population numbers reported in the lower left portion of each map were the populations within each Block Group that were served by the District. The population numbers reported for each Block Group are the total population of each Block Group, and not the population in each Block Group or part thereof served by the District. The attached spreadsheets detail the calculations that derive the Study Area population and percent change. As noted above, these Block Group totals were illustrative of total population changes in those Block Groups only, and not used in the Study Area calculations. The Study Area populations and Pct. Change reported on each map in the box on the lower left of the maps correctly state the Study Area populations and Pct. Change, and were the only numbers used to generate my future population projections.

[Dallam B. Harper, Jr.]

## 1990 Block Whole

FIPSSTCO	TRACT	BLOCK	STFID	POP100	STFID_1	ACRES
21113	060101	101B	21113060101101B	54	21113060101101B	823.65
21113	060101	102	21113060101102	0		4.78
21113	060101	201C	21113060101201C	268	21113060101201C	593.05
21113	060400	102	21113060400102	64	21113060400102	957.62
21113	060400	201A	21113060400201A	244	21113060400201A	208.61
21113	060400	201B	21113060400201B	20	21113060400201B	113.58
21113	060400	301	21113060400301	188	21113060400301	1933.66
21113	060400	302	21113060400302	17	21113060400302	80.34
21113	060400	303C	21113060400303C	78	21113060400303C	773.75
21113	060400	401B	21113060400401B	30	21113060400401B	636.26
21113	060400	403	21113060400403	2	21113060400403	240.00
21113	060400	404	21113060400404	12	21113060400404	357.64
21113	060400	405	21113060400405	24	21113060400405	278.72
21113	060400	407	21113060400407	5	21113060400407	7.89
21113	060400	499	21113060400499	0		149.65
21113	060600	103	21113060600103	2	21113060600103	316.95
21113	060600	104	21113060600104	0		35.03
21113	060600	105	21113060600105	500	21113060600105	513.18
21113	060600	106	21113060600106	0		16.58
21113	060600	107	21113060600107	0		0.40
21113	060600	108	21113060600108	2	21113060600108	165.57
21113	060600	109	21113060600109	14	21113060600109	350.74
21113	060600	110	21113060600110	5	21113060600110	3.29
21113	060600	111	21113060600111	0		13.82
21113	060600	112	21113060600112	40	21113060600112	1355.62
21113	060600	113	21113060600113	195	21113060600113	1789.45
21113	060600	115	21113060600115	4	21113060600115	23.83
21113	060600	116	21113060600116	258	21113060600116	792.45
21113	060600	117	21113060600117	0		3.81
21113	060600	118	21113060600118	303	21113060600118	2249.41
21113	060600	119	21113060600119	4	21113060600119	4.57
21113	060600	120	21113060600120	0		1.21
21113	060600	121	21113060600121	29	21113060600121	955.86
21113	060600	124	21113060600124	106	21113060600124	2485.73
21113	060600	128	21113060600128	0		33.46
21113	060600	129	21113060600129	11	21113060600129	74.28
21113	060600	130	21113060600130	155	21113060600130	1176.78
21113	060600	131	21113060600131	3	21113060600131	41.63
21113	060600	132	21113060600132	0		26.83
21113	060600	137	21113060600137	83	21113060600137	27.10
21113	060600	138	21113060600138	82	21113060600138	27.28
21113	060600	139	21113060600139	0		18.28
21113	060600	140	21113060600140	0		47.46
21113	060600	141	21113060600141	11	21113060600141	373.48
21113	060600	142	21113060600142	0		18.51
21113	060600	143	21113060600143	0		2.50

## 1990 Block Whole

21113	060600	144	21113060600144	11	21113060600144	2.56
21113	060600	145	21113060600145	6	21113060600145	2.69
21113	060600	146	21113060600146	1	21113060600146	15.50
21113	060600	147	21113060600147	5	21113060600147	33.86
21113	060600	202	21113060600202	44	21113060600202	1268.74
21113	060600	205	21113060600205	2	21113060600205	14.84
21113	060600	206	21113060600206	24	21113060600206	338.16
21113	060600	207	21113060600207	39	21113060600207	513.31
21113	060600	208	21113060600208	11	21113060600208	362.20
21113	060600	209	21113060600209	24	21113060600209	69.21
21113	060600	210	21113060600210	227	21113060600210	2112.95
21113	060600	211	21113060600211	0		6.59
21113	060600	212	21113060600212	7	21113060600212	10.77
21113	060600	213	21113060600213	0		32.10
21113	060600	214	21113060600214	0		12.31
21113	060600	215	21113060600215	55	21113060600215	1548.17
21113	060600	216	21113060600216	74	21113060600216	646.26
21113	060600	217	21113060600217	3	21113060600217	14.61
21113	060600	218	21113060600218	8	21113060600218	627.11
21113	060600	219	21113060600219	4	21113060600219	50.73
21113	060600	220	21113060600220	9	21113060600220	560.52
21113	060600	221	21113060600221	52	21113060600221	100.72
21113	060600	222	21113060600222	0		2.63
21113	060600	223	21113060600223	4	21113060600223	11.25
21113	060600	224	21113060600224	0		6.00
21113	060600	225	21113060600225	168	21113060600225	1115.80
21113	060600	226	21113060600226	15	21113060600226	218.13
21113	060600	227	21113060600227	63	21113060600227	692.17
21113	060600	228	21113060600228	6	21113060600228	90.23
21113	060600	229	21113060600229	19	21113060600229	211.79
21113	060600	230	21113060600230	162	21113060600230	708.44
21113	060600	231	21113060600231	32	21113060600231	5.36
21113	060600	232	21113060600232	16	21113060600232	4.34
21113	060600	233	21113060600233	5	21113060600233	3.91
21113	060600	234B	21113060600234B	141	21113060600234B	1448.30
21113	060600	235	21113060600235	4	21113060600235	21.91

## 1990 Block Split

FIPSSTCO TRACT	BLOCK	STFID	POP 100 STUDYAREA	BlockGroup	ACRES
21113 060101	101B	21113060101101B	49 NO	1011	750.39
21113 060101	101B	21113060101101B	5 YES	1011	73.26
21113 060101	201C	21113060101201C	143 NO	1012	317.17
21113 060101	201C	21113060101201C	125 YES	1012	275.88
21113 060400	102	21113060400102	45 YES	4001	677.54
21113 060400	102	21113060400102	19 NO	4001	280.09
21113 060400	201A	21113060400201A	206 NO	4002	176.20
21113 060400	201A	21113060400201A	38 YES	4002	32.40
21113 060400	201B	21113060400201B	17 YES	4002	96.70
21113 060400	201B	21113060400201B	3 NO	4002	16.88
21113 060400	303C	21113060400303C	53 YES	4003	528.34
21113 060400	303C	21113060400303C	21 NO	4003	202.90
21113 060400	303C	21113060400303C	0 NO	4003	0.27
21113 060400	303C	21113060400303C	4 YES	4003	42.24
21113 060400	401B	21113060400401B	23 NO	4004	495.04
21113 060400	401B	21113060400401B	7 YES	4004	141.22
21113 060400	403	21113060400403	1 NO	4004	168.43
21113 060400	403	21113060400403	1 YES	4004	71.57
21113 060400	499	21113060400499	0 NO	4004	140.85
21113 060400	499	21113060400499	0 YES	4004	8.80
21113 060600	103	21113060600103	1 YES	6001	185.89
21113 060600	103	21113060600103	1 NO	6001	131.06
21113 060600	121	21113060600121	20 NO	6001	657.32
21113 060600	121	21113060600121	9 YES	6001	298.54
21113 060600	130	21113060600130	132 YES	6001	#####
21113 060600	130	21113060600130	23 NO	6001	173.77
21113 060600	132	21113060600132	0 YES	6001	24.23
21113 060600	132	21113060600132	0 NO	6001	2.61
21113 060600	202	21113060600202	34 NO	6002	994.56
21113 060600	202	21113060600202	10 YES	6002	274.18
21113 060600	205	21113060600205	1 YES	6002	7.77
21113 060600	205	21113060600205	1 NO	6002	7.07
21113 060600	234B	21113060600234B	123 YES	6002	#####
21113 060600	234B	21113060600234B	18 NO	6002	189.58
21113 060600	235	21113060600235	2 NO	6002	12.21
21113 060600	235	21113060600235	2 YES	6002	9.70



## 2000 Block Whole

FIPSSTCO	TRACT2000	BLOCK2000	STFID	GEO_id	GEO_displa	POP100	ACRES
21113	060101	1008	211130601011008	1000000US211130601011008	Block 1008, Block Group 1, Census Tract 601.01, Jessamine County, Kentucky	52	990.84
21113	060101	1009	211130601011009	1000000US211130601011009	Block 1009, Block Group 1, Census Tract 601.01, Jessamine County, Kentucky	0	4.78
21113	060101	2000	211130601012000	1000000US211130601012000	Block 2000, Block Group 2, Census Tract 601.01, Jessamine County, Kentucky	209	610.34
21113	060101	2001	211130601012001	1000000US211130601012001	Block 2001, Block Group 2, Census Tract 601.01, Jessamine County, Kentucky	42	29.46
21113	060400	1003	211130604001003	1000000US211130604001003	Block 1003, Block Group 1, Census Tract 604, Jessamine County, Kentucky	87	957.62
21113	060400	1008	211130604001008	1000000US211130604001008	Block 1008, Block Group 1, Census Tract 604, Jessamine County, Kentucky	521	208.61
21113	060400	1009	211130604001009	1000000US211130604001009	Block 1009, Block Group 1, Census Tract 604, Jessamine County, Kentucky	8	14.59
21113	060400	1010	211130604001010	1000000US211130604001010	Block 1010, Block Group 1, Census Tract 604, Jessamine County, Kentucky	15	98.99
21113	060400	2000	211130604002000	1000000US211130604002000	Block 2000, Block Group 2, Census Tract 604, Jessamine County, Kentucky	177	595.02
21113	060400	2001	211130604002001	1000000US211130604002001	Block 2001, Block Group 2, Census Tract 604, Jessamine County, Kentucky	0	41.60
21113	060400	2019	211130604002019	1000000US211130604002019	Block 2019, Block Group 2, Census Tract 604, Jessamine County, Kentucky	70	267.70
21113	060400	2020	211130604002020	1000000US211130604002020	Block 2020, Block Group 2, Census Tract 604, Jessamine County, Kentucky	214	1933.66
21113	060400	2021	211130604002021	1000000US211130604002021	Block 2021, Block Group 2, Census Tract 604, Jessamine County, Kentucky	15	80.34
21113	060400	3000	211130604003000	1000000US211130604003000	Block 3000, Block Group 3, Census Tract 604, Jessamine County, Kentucky	24	1055.53
21113	060400	3001	211130604003001	1000000US211130604003001	Block 3001, Block Group 3, Census Tract 604, Jessamine County, Kentucky	33	636.36
21113	060400	3002	211130604003002	1000000US211130604003002	Block 3002, Block Group 3, Census Tract 604, Jessamine County, Kentucky	7	7.89
21113	060400	3998	211130604003998	1000000US211130604003998	Block 3998, Block Group 3, Census Tract 604, Jessamine County, Kentucky	0	9.33
21113	060600	1001	211130606001001	1000000US211130606001001	Block 1001, Block Group 1, Census Tract 606, Jessamine County, Kentucky	65	635.47
21113	060600	1002	211130606001002	1000000US211130606001002	Block 1002, Block Group 1, Census Tract 606, Jessamine County, Kentucky	0	35.03
21113	060600	1003	211130606001003	1000000US211130606001003	Block 1003, Block Group 1, Census Tract 606, Jessamine County, Kentucky	266	360.79
21113	060600	1004	211130606001004	1000000US211130606001004	Block 1004, Block Group 1, Census Tract 606, Jessamine County, Kentucky	522	891.68
21113	060600	1005	211130606001005	1000000US211130606001005	Block 1005, Block Group 1, Census Tract 606, Jessamine County, Kentucky	288	2045.08
21113	060600	1006	211130606001006	1000000US211130606001006	Block 1006, Block Group 1, Census Tract 606, Jessamine County, Kentucky	15	165.57
21113	060600	1007	211130606001007	1000000US211130606001007	Block 1007, Block Group 1, Census Tract 606, Jessamine County, Kentucky	0	350.74
21113	060600	1008	211130606001008	1000000US211130606001008	Block 1008, Block Group 1, Census Tract 606, Jessamine County, Kentucky	0	3.29
21113	060600	1009	211130606001009	1000000US211130606001009	Block 1009, Block Group 1, Census Tract 606, Jessamine County, Kentucky	10	13.82
21113	060600	1010	211130606001010	1000000US211130606001010	Block 1010, Block Group 1, Census Tract 606, Jessamine County, Kentucky	42	1355.62
21113	060600	1011	211130606001011	1000000US211130606001011	Block 1011, Block Group 1, Census Tract 606, Jessamine County, Kentucky	306	1701.20
21113	060600	1012	211130606001012	1000000US211130606001012	Block 1012, Block Group 1, Census Tract 606, Jessamine County, Kentucky	47	81.09
21113	060600	1013	211130606001013	1000000US211130606001013	Block 1013, Block Group 1, Census Tract 606, Jessamine County, Kentucky	8	7.16
21113	060600	1014	211130606001014	1000000US211130606001014	Block 1014, Block Group 1, Census Tract 606, Jessamine County, Kentucky	5	224.11
21113	060600	1015	211130606001015	1000000US211130606001015	Block 1015, Block Group 1, Census Tract 606, Jessamine County, Kentucky	35	196.09
21113	060600	1016	211130606001016	1000000US211130606001016	Block 1016, Block Group 1, Census Tract 606, Jessamine County, Kentucky	10	8.25

## 2000 Block Whole

21113	060600	1017	211130606001017	1000000US211130606001017 Block 1017, Block Group 1, Census Tract 606, Jessamine County, Kentucky	0	4.57
21113	060600	1018	211130606001018	1000000US211130606001018 Block 1018, Block Group 1, Census Tract 606, Jessamine County, Kentucky	9	13.82
21113	060600	1019	211130606001019	1000000US211130606001019 Block 1019, Block Group 1, Census Tract 606, Jessamine County, Kentucky	4	5.82
21113	060600	1020	211130606001020	1000000US211130606001020 Block 1020, Block Group 1, Census Tract 606, Jessamine County, Kentucky	0	5.57
21113	060600	1021	211130606001021	1000000US211130606001021 Block 1021, Block Group 1, Census Tract 606, Jessamine County, Kentucky	112	66.70
21113	060600	1022	211130606001022	1000000US211130606001022 Block 1022, Block Group 1, Census Tract 606, Jessamine County, Kentucky	118	68.99
21113	060600	1023	211130606001023	1000000US211130606001023 Block 1023, Block Group 1, Census Tract 606, Jessamine County, Kentucky	32	17.10
21113	060600	1024	211130606001024	1000000US211130606001024 Block 1024, Block Group 1, Census Tract 606, Jessamine County, Kentucky	73	27.10
21113	060600	1025	211130606001025	1000000US211130606001025 Block 1025, Block Group 1, Census Tract 606, Jessamine County, Kentucky	77	27.28
21113	060600	1026	211130606001026	1000000US211130606001026 Block 1026, Block Group 1, Census Tract 606, Jessamine County, Kentucky	297	2819.94
21113	060600	1027	211130606001027	1000000US211130606001027 Block 1027, Block Group 1, Census Tract 606, Jessamine County, Kentucky	11	41.63
21113	060600	1028	211130606001028	1000000US211130606001028 Block 1028, Block Group 1, Census Tract 606, Jessamine County, Kentucky	10	14.88
21113	060600	1029	211130606001029	1000000US211130606001029 Block 1029, Block Group 1, Census Tract 606, Jessamine County, Kentucky	10	11.95
21113	060600	1040	211130606001040	1000000US211130606001040 Block 1040, Block Group 1, Census Tract 606, Jessamine County, Kentucky	0	47.46
21113	060600	1041	211130606001041	1000000US211130606001041 Block 1041, Block Group 1, Census Tract 606, Jessamine County, Kentucky	6	18.28
21113	060600	1042	211130606001042	1000000US211130606001042 Block 1042, Block Group 1, Census Tract 606, Jessamine County, Kentucky	111	2153.09
21113	060600	1043	211130606001043	1000000US211130606001043 Block 1043, Block Group 1, Census Tract 606, Jessamine County, Kentucky	0	0.13
21113	060600	1044	211130606001044	1000000US211130606001044 Block 1044, Block Group 1, Census Tract 606, Jessamine County, Kentucky	0	168.29
21113	060600	1045	211130606001045	1000000US211130606001045 Block 1045, Block Group 1, Census Tract 606, Jessamine County, Kentucky	1	15.50
21113	060600	1046	211130606001046	1000000US211130606001046 Block 1046, Block Group 1, Census Tract 606, Jessamine County, Kentucky	12	23.83
21113	060600	1047	211130606001047	1000000US211130606001047 Block 1047, Block Group 1, Census Tract 606, Jessamine County, Kentucky	16	2.56
21113	060600	1048	211130606001048	1000000US211130606001048 Block 1048, Block Group 1, Census Tract 606, Jessamine County, Kentucky	3	2.69
21113	060600	2003	211130606002003	1000000US211130606002003 Block 2003, Block Group 2, Census Tract 606, Jessamine County, Kentucky	105	1597.62
21113	060600	2006	211130606002006	1000000US211130606002006 Block 2006, Block Group 2, Census Tract 606, Jessamine County, Kentucky	37	513.31
21113	060600	2007	211130606002007	1000000US211130606002007 Block 2007, Block Group 2, Census Tract 606, Jessamine County, Kentucky	31	362.20
21113	060600	2008	211130606002008	1000000US211130606002008 Block 2008, Block Group 2, Census Tract 606, Jessamine County, Kentucky	15	69.21
21113	060600	2009	211130606002009	1000000US211130606002009 Block 2009, Block Group 2, Census Tract 606, Jessamine County, Kentucky	249	2112.95
21113	060600	2010	211130606002010	1000000US211130606002010 Block 2010, Block Group 2, Census Tract 606, Jessamine County, Kentucky	5	10.77
21113	060600	2011	211130606002011	1000000US211130606002011 Block 2011, Block Group 2, Census Tract 606, Jessamine County, Kentucky	0	6.59
21113	060600	2012	211130606002012	1000000US211130606002012 Block 2012, Block Group 2, Census Tract 606, Jessamine County, Kentucky	161	1424.53
21113	060600	2013	211130606002013	1000000US211130606002013 Block 2013, Block Group 2, Census Tract 606, Jessamine County, Kentucky	0	6.00
21113	060600	2014	211130606002014	1000000US211130606002014 Block 2014, Block Group 2, Census Tract 606, Jessamine County, Kentucky	2	0.91
21113	060600	2015	211130606002015	1000000US211130606002015 Block 2015, Block Group 2, Census Tract 606, Jessamine County, Kentucky	0	21.91
21113	060600	2016	211130606002016	1000000US211130606002016 Block 2016, Block Group 2, Census Tract 606, Jessamine County, Kentucky	0	16.88

2000 Block Whole

21113	060600	2017	211130606002017	1000000US211130606002017	Block 2017, Block Group 2, Census Tract 606, Jessamine County, Kentucky	183	708.44
21113	060600	2018	211130606002018	1000000US211130606002018	Block 2018, Block Group 2, Census Tract 606, Jessamine County, Kentucky	13	211.79
21113	060600	2019	211130606002019	1000000US211130606002019	Block 2019, Block Group 2, Census Tract 606, Jessamine County, Kentucky	85	1115.80
21113	060600	2020	211130606002020	1000000US211130606002020	Block 2020, Block Group 2, Census Tract 606, Jessamine County, Kentucky	16	560.52
21113	060600	2021	211130606002021	1000000US211130606002021	Block 2021, Block Group 2, Census Tract 606, Jessamine County, Kentucky	14	677.84
21113	060600	2022	211130606002022	1000000US211130606002022	Block 2022, Block Group 2, Census Tract 606, Jessamine County, Kentucky	80	660.86
21113	060600	2023	211130606002023	1000000US211130606002023	Block 2023, Block Group 2, Census Tract 606, Jessamine County, Kentucky	7	4.34
21113	060600	2024	211130606002024	1000000US211130606002024	Block 2024, Block Group 2, Census Tract 606, Jessamine County, Kentucky	32	5.36
21113	060600	2025	211130606002025	1000000US211130606002025	Block 2025, Block Group 2, Census Tract 606, Jessamine County, Kentucky	17	24.11
21113	060600	2026	211130606002026	1000000US211130606002026	Block 2026, Block Group 2, Census Tract 606, Jessamine County, Kentucky	5	3.91
21113	060600	2027	211130606002027	1000000US211130606002027	Block 2027, Block Group 2, Census Tract 606, Jessamine County, Kentucky	0	6.00
21113	060600	2028	211130606002028	1000000US211130606002028	Block 2028, Block Group 2, Census Tract 606, Jessamine County, Kentucky	1	11.25
21113	060600	2029	211130606002029	1000000US211130606002029	Block 2029, Block Group 2, Census Tract 606, Jessamine County, Kentucky	128	1568.46
21113	060600	2030	211130606002030	1000000US211130606002030	Block 2030, Block Group 2, Census Tract 606, Jessamine County, Kentucky	5	2.63
21113	060600	2031	211130606002031	1000000US211130606002031	Block 2031, Block Group 2, Census Tract 606, Jessamine County, Kentucky	25	100.72
21113	060600	2032	211130606002032	1000000US211130606002032	Block 2032, Block Group 2, Census Tract 606, Jessamine County, Kentucky	4	218.13
21113	060600	2033	211130606002033	1000000US211130606002033	Block 2033, Block Group 2, Census Tract 606, Jessamine County, Kentucky	59	692.17
21113	060600	2034	211130606002034	1000000US211130606002034	Block 2034, Block Group 2, Census Tract 606, Jessamine County, Kentucky	10	90.23

## 2000 Block Split

FIPSSTCO	TRACT2000	BLOCK2000	STFID	GEO_id	GEO_displa	POP100	STUDYAREA	BlockGroup	ACRES
21113	060101	1008	211130601011008	1000000US211130601011008	Block 1008, Block G	48	NO	1011	909.81
21113	060101	1008	211130601011008	1000000US211130601011008	Block 1008, Block G	4	YES	1011	81.03
21113	060101	2000	211130601012000	1000000US211130601012000	Block 2000, Block G	118	NO	1012	343.83
21113	060101	2000	211130601012000	1000000US211130601012000	Block 2000, Block G	91	YES	1012	266.51
21113	060101	2001	211130601012001	1000000US211130601012001	Block 2001, Block G	29	NO	1012	20.08
21113	060101	2001	211130601012001	1000000US211130601012001	Block 2001, Block G	13	YES	1012	9.38
21113	060400	1003	211130604001003	1000000US211130604001003	Block 1003, Block G	62	YES	4001	677.54
21113	060400	1003	211130604001003	1000000US211130604001003	Block 1003, Block G	25	NO	4001	280.09
21113	060400	1008	211130604001008	1000000US211130604001008	Block 1008, Block G	440	NO	4001	176.20
21113	060400	1008	211130604001008	1000000US211130604001008	Block 1008, Block G	81	YES	4001	32.40
21113	060400	1009	211130604001009	1000000US211130604001009	Block 1009, Block G	4	NO	4001	7.98
21113	060400	1009	211130604001009	1000000US211130604001009	Block 1009, Block G	4	YES	4001	6.61
21113	060400	1010	211130604001010	1000000US211130604001010	Block 1010, Block G	14	YES	4001	90.09
21113	060400	1010	211130604001010	1000000US211130604001010	Block 1010, Block G	1	NO	4001	8.90
21113	060400	2000	211130604002000	1000000US211130604002000	Block 2000, Block G	63	NO	4002	210.47
21113	060400	2000	211130604002000	1000000US211130604002000	Block 2000, Block G	76	YES	4002	257.04
21113	060400	2000	211130604002000	1000000US211130604002000	Block 2000, Block G	38	YES	4002	127.39
21113	060400	2000	211130604002000	1000000US211130604002000	Block 2000, Block G	0	YES	4002	0.12
21113	060400	2001	211130604002001	1000000US211130604002001	Block 2001, Block G	0	NO	4002	38.88
21113	060400	2001	211130604002001	1000000US211130604002001	Block 2001, Block G	0	YES	4002	2.71
21113	060400	2019	211130604002019	1000000US211130604002019	Block 2019, Block G	37	YES	4002	141.21
21113	060400	2019	211130604002019	1000000US211130604002019	Block 2019, Block G	0	NO	4002	0.27
21113	060400	2019	211130604002019	1000000US211130604002019	Block 2019, Block G	11	YES	4002	42.24
21113	060400	2019	211130604002019	1000000US211130604002019	Block 2019, Block G	22	NO	4002	83.97
21113	060400	3000	211130604003000	1000000US211130604003000	Block 3000, Block G	19	NO	4003	842.74
21113	060400	3000	211130604003000	1000000US211130604003000	Block 3000, Block G	5	YES	4003	212.79
21113	060600	1001	211130606001001	1000000US211130606001001	Block 1001, Block G	46	NO	6001	449.58
21113	060600	1001	211130606001001	1000000US211130606001001	Block 1001, Block G	19	YES	6001	185.89
21113	060600	1026	211130606001026	1000000US211130606001026	Block 1026, Block G	176	YES	6001	1675.03
21113	060600	1026	211130606001026	1000000US211130606001026	Block 1026, Block G	121	NO	6001	1144.90
21113	060600	1029	211130606001029	1000000US211130606001029	Block 1029, Block G	8	YES	6001	9.34
21113	060600	1029	211130606001029	1000000US211130606001029	Block 1029, Block G	2	NO	6001	2.61
21113	060600	2003	211130606002003	1000000US211130606002003	Block 2003, Block G	65	NO	6002	985.28

## 2000 Block Split

21113	060600	2003	211130606002003	1000000US211130606002003	Block 2003, Block G	40 YES	6002	612.34
21113	060600	2012	211130606002012	1000000US211130606002012	Block 2012, Block G	141 YES	6002	1249.49
21113	060600	2012	211130606002012	1000000US211130606002012	Block 2012, Block G	20 NO	6002	175.04
21113	060600	2015	211130606002015	1000000US211130606002015	Block 2015, Block G	0 NO	6002	12.21
21113	060600	2015	211130606002015	1000000US211130606002015	Block 2015, Block G	0 YES	6002	9.70
21113	060600	2016	211130606002016	1000000US211130606002016	Block 2016, Block G	0 NO	6002	14.55
21113	060600	2016	211130606002016	1000000US211130606002016	Block 2016, Block G	0 YES	6002	2.32

## 2010 Block Whole

TRACTCE10	BLOCKCE10	GEOID10	NAME10	COUNTY	POP100	ACRES
060101	3000	211130601013000	Block 3000	113		936.56
060101	4000	211130601014000	Block 4000	113	208	661.95
060101	4004	211130601014004	Block 4004	113	34	30.19
060400	1007	211130604001007	Block 1007	113	38	208.36
060400	1008	211130604001008	Block 1008	113	237	32.43
060400	1009	211130604001009	Block 1009	113	48	270.40
060400	1010	211130604001010	Block 1010	113	18	409.01
060400	1011	211130604001011	Block 1011	113	302	288.72
060400	2000	211130604002000	Block 2000	113	244	1910.69
060400	2001	211130604002001	Block 2001	113	0	2.92
060400	2002	211130604002002	Block 2002	113	0	0.07
060400	2003	211130604002003	Block 2003	113	407	925.87
060400	2031	211130604002031	Block 2031	113	5	77.67
060400	3000	211130604003000	Block 3000	113	48	1176.45
060400	3003	211130604003003	Block 3003	113	0	753.86
060400	3006	211130604003006	Block 3006	113	31	670.37
060400	3007	211130604003007	Block 3007	113	1	14.07
060400	3008	211130604003008	Block 3008	113	0	5.73
060600	1002	211130606001002	Block 1002	113	61	639.89
060600	1005	211130606001005	Block 1005	113	10	27.01
060600	1006	211130606001006	Block 1006	113	0	37.60
060600	1007	211130606001007	Block 1007	113	31	63.72
060600	1008	211130606001008	Block 1008	113	156	89.02
060600	1009	211130606001009	Block 1009	113	15	22.35
060600	1010	211130606001010	Block 1010	113	0	4.01
060600	1013	211130606001013	Block 1013	113	425	2946.15
060600	1014	211130606001014	Block 1014	113	70	19.85
060600	1015	211130606001015	Block 1015	113	20	43.13
060600	1016	211130606001016	Block 1016	113	0	0.24
060600	1017	211130606001017	Block 1017	113	64	21.96
060600	1018	211130606001018	Block 1018	113	41	31.94
060600	1019	211130606001019	Block 1019	113	31	18.08
060600	1020	211130606001020	Block 1020	113	27	20.56
060600	1021	211130606001021	Block 1021	113	14	8.31
060600	1022	211130606001022	Block 1022	113	0	6.16
060600	1023	211130606001023	Block 1023	113	563	413.20
060600	1024	211130606001024	Block 1024	113	0	0.09
060600	1025	211130606001025	Block 1025	113	28	12.26
060600	1026	211130606001026	Block 1026	113	0	1.41
060600	1027	211130606001027	Block 1027	113	0	0.09
060600	1028	211130606001028	Block 1028	113	4	0.25
060600	1029	211130606001029	Block 1029	113	5	0.28
060600	1030	211130606001030	Block 1030	113	9	5.08
060600	1031	211130606001031	Block 1031	113	102	62.38
060600	1032	211130606001032	Block 1032	113	43	15.56
060600	1033	211130606001033	Block 1033	113	105	177.97

## 2010 Block Whole

060600	1034	211130606001034	Block 1034	113	0	0.16
060600	1035	211130606001035	Block 1035	113	22	19.42
060600	1036	211130606001036	Block 1036	113	68	31.45
060600	2000	211130606002000	Block 2000	113	75	1464.19
060600	2002	211130606002002	Block 2002	113	51	276.82
060600	2003	211130606002003	Block 2003	113	51	829.62
060600	2010	211130606002010	Block 2010	113	313	2135.93
060600	2011	211130606002011	Block 2011	113	0	5.78
060600	2012	211130606002012	Block 2012	113	101	912.20
060600	2013	211130606002013	Block 2013	113	36	90.35
060600	2014	211130606002014	Block 2014	113	17	83.65
060600	2015	211130606002015	Block 2015	113	0	1.49
060600	2016	211130606002016	Block 2016	113	11	38.51
060600	2017	211130606002017	Block 2017	113	12	5.51
060600	2018	211130606002018	Block 2018	113	109	348.59
060600	2019	211130606002019	Block 2019	113	20	9.14
060600	2020	211130606002020	Block 2020	113	0	1.56
060600	2021	211130606002021	Block 2021	113	0	0.18
060600	2022	211130606002022	Block 2022	113	2	28.07
060600	2023	211130606002023	Block 2023	113	9	3.93
060600	2024	211130606002024	Block 2024	113	2	4.16
060600	2025	211130606002025	Block 2025	113	21	276.95
060600	2026	211130606002026	Block 2026	113	8	675.90
060600	2027	211130606002027	Block 2027	113	0	0.12
060600	2028	211130606002028	Block 2028	113	93	504.47
060600	2029	211130606002029	Block 2029	113	0	1.27
060600	2030	211130606002030	Block 2030	113	0	4.62
060600	2031	211130606002031	Block 2031	113	0	0.31
060600	2032	211130606002032	Block 2032	113	0	0.44
060600	2033	211130606002033	Block 2033	113	27	51.42
060600	2034	211130606002034	Block 2034	113	0	0.38
060600	2035	211130606002035	Block 2035	113	73	102.52
060600	2036	211130606002036	Block 2036	113	259	1111.07
060600	2037	211130606002037	Block 2037	113	10	216.73
060600	2038	211130606002038	Block 2038	113	104	695.42
060600	2039	211130606002039	Block 2039	113	0	8.00
060600	2040	211130606002040	Block 2040	113	0	4.41
060600	2041	211130606002041	Block 2041	113	18	214.57
060600	2042	211130606002042	Block 2042	113	188	703.62
060600	2043	211130606002043	Block 2043	113	0	0.35
060600	2044	211130606002044	Block 2044	113	306	1408.21
060600	2045	211130606002045	Block 2045	113	0	0.18
060600	2046	211130606002046	Block 2046	113	7	10.12
060600	2047	211130606002047	Block 2047	113	0	0.82
060600	2048	211130606002048	Block 2048	113	0	0.15
060600	2049	211130606002049	Block 2049	113	0	37.82
060600	2050	211130606002050	Block 2050	113	2	1.63

## 2010 Block Whole

060600	2051	211130606002051	Block 2051	113	9	85.23
060600	2052	211130606002052	Block 2052	113	56	470.98
060600	3000	211130606003000	Block 3000	113	352	2027.13
060600	3001	211130606003001	Block 3001	113	0	0.22
060600	3002	211130606003002	Block 3002	113	0	3.99
060600	3003	211130606003003	Block 3003	113	0	0.23
060600	3004	211130606003004	Block 3004	113	0	0.72
060600	3005	211130606003005	Block 3005	113	0	0.24
060600	3006	211130606003006	Block 3006	113	0	12.68
060600	3007	211130606003007	Block 3007	113	15	166.45
060600	3008	211130606003008	Block 3008	113	11	367.62
060600	3009	211130606003009	Block 3009	113	130	1359.54
060600	3010	211130606003010	Block 3010	113	414	1692.72
060600	3011	211130606003011	Block 3011	113	37	108.85
060600	3012	211130606003012	Block 3012	113	0	0.26
060600	3013	211130606003013	Block 3013	113	0	0.19
060600	3014	211130606003014	Block 3014	113	0	2.01
060600	3015	211130606003015	Block 3015	113	0	0.48
060600	3016	211130606003016	Block 3016	113	0	0.22
060600	3017	211130606003017	Block 3017	113	0	0.95
060600	3018	211130606003018	Block 3018	113	0	0.14
060600	3019	211130606003019	Block 3019	113	0	0.25
060600	3020	211130606003020	Block 3020	113	42	103.66
060600	3021	211130606003021	Block 3021	113	22	88.48
060600	3022	211130606003022	Block 3022	113	356	2504.40
060600	3023	211130606003023	Block 3023	113	0	1.17
060600	3024	211130606003024	Block 3024	113	0	0.51
060600	3025	211130606003025	Block 3025	113	11	55.95
060600	3026	211130606003026	Block 3026	113	5	3.08
060600	3027	211130606003027	Block 3027	113	0	0.51
060600	3028	211130606003028	Block 3028	113	236	412.73
060600	3029	211130606003029	Block 3029	113	0	0.18
060600	3030	211130606003030	Block 3030	113	0	0.69
060600	3031	211130606003031	Block 3031	113	0	0.42
060600	3032	211130606003032	Block 3032	113	0	0.70
060600	3033	211130606003033	Block 3033	113	0	1.97
060600	3034	211130606003034	Block 3034	113	2	21.31
060600	3035	211130606003035	Block 3035	113	15	9.25
060600	3036	211130606003036	Block 3036	113	0	2.06
060600	3037	211130606003037	Block 3037	113	7	23.40
060600	3038	211130606003038	Block 3038	113	0	0.13



## 2010 Block Split

TRACTCE10	BLOCKCE10	GEOID10	NAME10	COUNTY	POP100	STUDYAREA	BlockGroup	ACRES
060101	3000	21113060101300	Block 3000	113	48	NO	1013	852.17
060101	3000	21113060101300	Block 3000	113	5	YES	1013	84.39
060101	4000	21113060101400	Block 4000	113	124	NO	1014	393.43
060101	4000	21113060101400	Block 4000	113	84	YES	1014	268.52
060101	4004	21113060101400	Block 4004	113	21	NO	1014	19.02
060101	4004	21113060101400	Block 4004	113	13	YES	1014	11.18
060400	1007	21113060400100	Block 1007	113	18	NO	4001	98.82
060400	1007	21113060400100	Block 1007	113	7	NO	4001	39.56
060400	1007	21113060400100	Block 1007	113	13	YES	4001	69.98
060400	1008	21113060400100	Block 1008	113	233	NO	4001	31.92
060400	1008	21113060400100	Block 1008	113	4	YES	4001	0.52
060400	1009	21113060400100	Block 1009	113	47	YES	4001	266.35
060400	1009	21113060400100	Block 1009	113	1	NO	4001	4.05
060400	1010	21113060400101	Block 1010	113	15	YES	4001	335.24
060400	1010	21113060400101	Block 1010	113	3	NO	4001	73.77
060400	1011	21113060400101	Block 1011	113	170	NO	4001	162.31
060400	1011	21113060400101	Block 1011	113	132	YES	4001	126.42
060400	2003	21113060400200	Block 2003	113	231	YES	4002	526.31
060400	2003	21113060400200	Block 2003	113	158	NO	4002	358.50
060400	2003	21113060400200	Block 2003	113	18	YES	4002	41.06
060400	3000	21113060400300	Block 3000	113	42	NO	4003	1034.88
060400	3000	21113060400300	Block 3000	113	6	YES	4003	141.56
060400	3003	21113060400300	Block 3003	113	0	NO	4003	684.30
060400	3003	21113060400300	Block 3003	113	0	YES	4003	69.56
060600	1002	21113060600100	Block 1002	113	43	NO	6001	447.61
060600	1002	21113060600100	Block 1002	113	18	YES	6001	192.28
060600	1005	21113060600100	Block 1005	113	9	YES	6001	24.97
060600	1005	21113060600100	Block 1005	113	1	NO	6001	2.04
060600	1013	21113060600101	Block 1013	113	251	YES	6001	1739.45
060600	1013	21113060600101	Block 1013	113	174	NO	6001	1206.70
060600	2000	21113060600200	Block 2000	113	52	NO	6002	1010.62
060600	2000	21113060600200	Block 2000	113	1	YES	6002	28.07
060600	2000	21113060600200	Block 2000	113	22	YES	6002	425.50
060600	2002	21113060600200	Block 2002	113	51	YES	6002	276.81
060600	2002	21113060600200	Block 2002	113	0	NO	6002	0.01
060600	2044	21113060600204	Block 2044	113	268	YES	6002	1232.54
060600	2044	21113060600204	Block 2044	113	38	NO	6002	175.66
060600	2049	21113060600204	Block 2049	113	0	NO	6002	24.92
060600	2049	21113060600204	Block 2049	113	0	YES	6002	12.90

**Jessamine-South Elkhorn Water District**

**John G. Horne Request:** Provide surveyed distance from constructed tank position to Douglas, Hutchens and Pelphrey homes.

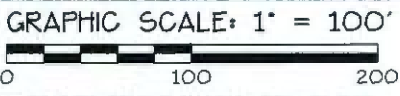
**Answer:** See attached exhibit.

[John G. Horne]

**MAXIMUM EXTENSION NOTE**

THIS IS THE MAXIMUM RADIUS OF EXTENSION IF THE PROPOSED TANK WAS PLACED ON ITS SIDE IN ANY DIRECTION. HOWEVER, THE TANK WOULD NOT REACH THIS LIMIT BECAUSE IT COULD NOT TOPPLE WITH THE LEGS AS A HINGE POINT. ANY FAILURE WOULD BE DUE TO BUCKLING, NOT TIPPING OVER.

METHOD OF SURVEY  
THIS SURVEY WAS CONDUCTED VIA A TRIMBLE R8 GNSS ROVER UTILIZING THE KDOT CORS STATION 'KYG'.



NOTE: TOP OF TANK ELEVATION (1175.1) WAS EXTRAPOLATED FROM GENERIC CADD DRAWING OBTAINED FROM CALDWELL TANKS. HIGH WATER LEVEL OF TANK IS 148.68' FROM TOP OF FOUNDATION. FOUNDATION ELEVATION IS 1023.0, THEREBY GIVING A TANK HEIGHT OF 152.1'. HALF OF THE TANK DIAMETER (30') ADDED TO THE OVERALL TANK HEIGHT TO DEFINE THE MAXIMUM EXTENSION (182.1') IF THE TANK WAS PLACED ON ITS SIDE.

**SURVEY OF  
NEAREST RESIDENCES  
RELATIVE TO TANK SITE  
JESSAMINE-SOUTH ELKHORN  
WATER DISTRICT  
JESSAMINE COUNTY, KENTUCKY**

J:\SCCES\WORK\1204049\ADJACENT HOMES.dwg, 3/10/2015 11:26:13 AM

\* OWNER HAS NOT SITED LOCATION OF PROPOSED HOUSE, BUT CANNOT BE ANY CLOSER THAN THE BUILDING LINE (B.L.) AS SHOWN.

**Jessamine-South Elkhorn Water District**

**John G. Horne Request:** Provide itemization of \$500,000.00+ in expenditures to utilize the Switzer Site.

**Answer:** The following expenditures are all related to the construction of a new storage tank at or near the currently proposed site. The Switzer site was acquired in 2004, and all of the listed expenditures since that date have been incurred in the expectation that the Switzer site would be used for the new water storage tank.

2005	Forest Hill upsize 6" – 12", WO# 3683	\$ 41,650
2008	US-68 Relocation WO# 3671	
	• 8"-12" Upsize US-68, Keene Manor/Harrods Hill	\$ 19,100
	• 4"-6" Upsize Catnip Hill Pike	\$ 14,810
	• 12" Parallel US-68, Catnip / Forest Hills	\$ 85,940
	• 10" Parallel US-68, Barkley Woods / "Y"	\$210,420
2009	8" Parallel US-68, Catnip / Mathews, WO# 3845	\$ 89,830
2010	12" Loop tie Chinkapin / Catnip, WO# 3845	\$ 33,978
2011	6" Loop tie KY-169 / Rhineheimer, WO#3865	\$101,845
2014	Northwest Hydraulic, WO# 3868	
	• 4" – 6" Catnip Pike upsize	\$ 31,375
	• 4" – 6" Rhineheimer upsize	\$ 35,675

Expenditures disclosed in Response No. 23 (a) and (c)-(f) of JSEWD Response to Forest Hills Residents' Association, Inc. First Set of Requests for Information – Case No. 2012-00470	\$ 74,059
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Payments for engineering services: 2004-2011 (see Tab 7 herein excluding Capital Improvement Plan and System Development Charges)	<u>\$371,932</u>
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<b>TOTAL</b>	<b>\$1,110,614</b>
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[John G. Horne]

**Jessamine-South Elkhorn Water District**

**L. Christopher Horne Information Request:** Provide dates that new water mains were constructed into the Switzer site.

**Answer:** The 12" main from Chinkapin Drive past the Switzer Site to Catnip Hill Road was completed in May of 2010.

[L. Christopher Horne]

**Jessamine-South Elkhorn Water District**

**L. Christopher Horne Request:** Provide date of last calibration of JSEWD KY Pipe model before 2014 EPS study was submitted.

**Answer:**      **October of 2011.**

**[L. Christopher Horne]**

**Jessamine-South Elkhorn Water District**

**L. Christopher Horne Request:** Provide differences between the 2012 EPS Study and the 2014 EPS Study.

**Answer:**

1. As compared to the 2012 Study, there is one additional pipe and one additional node in the 2014 analysis. The reason for this is because altitude valve AV-2 was added at the base of Tank B. This altitude valve was added because the model includes telemetry controls (control switches) at the proposed tank (Tank C) whereas telemetry was modeled at Tank B in 2012. Adding the new altitude valve created one additional pipe and one additional node with no additional demand. The new node is AV-2 and the new pipe is 338.

2. In the Data Summary, the section titled Output Option Data lists a group of pipes and nodes in the 2014 analysis that differ from the list in the 2012 analysis. This list of pipes and nodes identify all of those that were chosen for limited output. This means that the pipes and nodes listed will have results printed for each case in a full output report. This group of pipes and nodes were changed from the 2012 analysis in order to give better insight into how the system is performing. This change has absolutely no effect on any calculation or result.

3. In the 2014 model, one additional point on the pump curve data was added. The additional point is taken from the identical pump curve that was used in 2012. The additional data point was for 21 feet of head at 1300 gpm and 55% efficiency. This provides more accurate simulation of the pumps performance when it is running at high capacity.

4. The Global Demand Factor (GDF) in the 2012 model was set at 0.67. GDF is a percentage that is applied to all demands across the district equally in order to adjust the total system demand to a desired value. The total system demand of 516.43 gpm is the average flow rate for the year 2010 based on the daily telemetry report for that year. Applying the GDF of 0.67 yielded a total system demand of 511.99 gpm. If the GDF had been set to 0.68 it would have resulted in a total system demand greater than 519 gpm. Therefor in the 2014 model, the GDF was set at 0.675823 in order to arrive at a total system demand of 516.43. This change in GDF is an adjustment of less than one percent, therefore demands for all nodes in the system were adjusted by the same miniscule percentage. This results in a more precise simulation of the average total system demand reported by telemetry for the year 2010.

5. The telemetry control settings in the 2014 model have been moved from Tank B to Tank C. The control switch elevations have been changed to more accurately reflect the settings actually used by the water district.



6. The initial elevation of the water level of the tanks was changed for 2014 because the control switch levels have been raised. This was done in order to have an initial water level between the control switch settings.

7. The tank diameter was changed from a 1 million gallon tank to a 750,000 gallon tank.

[L. Christopher Horne]

**Jessamine-South Elkhorn Water District**

**L. Nicholas Strong Request:** Provide engineering services and project administration contracts related to proposed tank construction project and the compensation paid to Horne Engineering, Inc. ("HEI"), thereunder and otherwise for the project.

**Answer:** The Agreement for Engineering Services, dated July 2, 2014, can be found in the JSEWD Supplemental Responses to Forest Hills Residents' Association, Inc.'s Information Requests filed on November 12, 2014. The initial project administrator contracts for the \$440,000.00 in grants, all dated August 10, 2010, can be found in JSEWD Responses to Forest Hills Residents' Association, Inc.'s Requests for Information served October 13, 2014 at response to Request No. 25. The initial project administrator contract for the \$1,000,000.00 grant, dated August 10, 2010, is attached. All of these contracts were later amended by the contract attached and dated June 27, 2014.

No compensation has been paid to HEI as project administrator. See attached for the amounts paid to HEI for its engineering work on this project.

[L. Nicholas Strong]

# Horne Engineering, Inc.

216 SOUTH MAIN STREET • NICHOLASVILLE, KENTUCKY 40356 • (859)885-9441 • FAX (859)885-5160

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ENGINEERS • LAND SURVEYORS • PLANNERS  
*email@horneeng.com*

August 10, 2010

Nick Strong, Chairman  
Jessamine South Elkhorn Water District  
3520 Keene Road  
Nicholasville, KY 40356

Re: Professional Service Agreement  
Kentucky Infrastructure Authority  
WX21113016  
Grant ID: 229N-2008  
Catnip Hill Pike 1.0MG  
Elevated Storage Tank

Dear Mr. Strong:

This is a Professional Service Agreement between Jessamine-South Elkhorn Water District, (hereinafter referred to as "JSEWD") and Horne Engineering, Inc. (hereinafter referred to as HEI), whereas HEI shall act on behalf of JSEWD as PROJECT ADMINISTRATOR for the above referenced PROJECT, under the requirement of the Kentucky Infrastructure Authority, (hereinafter referred to as KIA).

Both parties mutually agree that the services provided by HEI are professional in nature and as such, are not required for advertisement or bidding as exempted under KRS 424.260(1). JSEWD agrees to pay HEI the sum of \$50,000, based on periodic invoices to be billed at the following percentage of completion of the hereinafter phases.

20% Bid Opening  
50% Half Point of Construction  
90% Punch List Inspection  
100% Project Completion

All invoices are due, net 30-days. It is understood that monies paid shall be reimbursed by KIA.

It is mutually understood that either party may terminate this agreement at any time upon thirty (30) day written notice to the other party. In the event of termination, JSEWD shall pay HEI for any unbilled services based on the percentage of completion as of the date of notice. Either party to this agreement, or KIA, may propose amendments to this agreement should the need arise, in which case, the mutually agreed amendment shall be reduced to writing and executed by all concerned parties.

This Agreement shall be in force beginning the last date of signatory and shall remain in force and effect until completion, unless it is otherwise terminated or amended.

JESSAMINE-SOUTH ELKHORN WATER DISTRICT

HORNE ENGINEERING, INC.

By: 

L. Nicholas Strong, Chairman

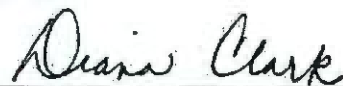
Date: 8-11-10

By: 

John G. Horne, President

Date: 8-11-10

WITNESS:



WITNESS:

L. CHRISTOPHER HERNIK

# Horne Engineering, Inc.

216 SOUTH MAIN STREET • NICHOLASVILLE, KENTUCKY 40356  
PH. (859)885-9441 • FAX (859)885-5160  
email@horneeng.com



ENGINEERS  
LAND SURVEYORS  
PLANNERS

June 27, 2014

Nick Strong  
Jessamine South Elkhorn Water District  
3520 Keene Road  
Nicholasville, KY 40356

Re: Amended Professional Service Agreement  
Kentucky Infrastructure Authority  
WX21113016  
Grant ID: 229N-2008  
Catnip Hill Pike 0.75 MG Elevated  
Storage Tank

Dear Mr. Strong:

On August 11, 2010, Horne Engineering, Inc. (HEI) and Jessamine-South Elkhorn Water District (JSEWD) entered into an agreement whereas HEI is to serve as Project Administrator for the Catnip Hill Pike Elevated Tank. This document serves to amend that agreement per the following:

Amendment #1 - Amend to include grant of \$440,000 transferred under Grant ID 3N-2014 which was transferred to this project and will be combined with Grant ID 229N-2008.

Amendment #2 - The tank size has been redefined to 0.75 MG in lieu of the 1.0 MG, originally.

These are the only two (2) amendments and although an increase in the grant amount, compensation shall remain unchanged.

JESSAMINE-SOUTH ELKHORN WATER DISTRICT

HORNE ENGINEERING, INC.

  
Name Title

Name

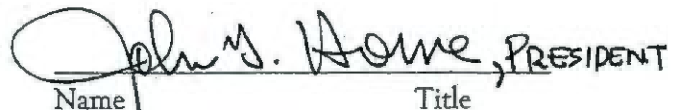
Title

Date

JGH/jt

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Name Title

Name

Title

Date



Payment for Professional Services  
Horne Engineering, Inc. for Switzer Site

2004	Property survey, platting and property acquisition	\$ 8,901.25
2005-2006	Capital Improvement Plan & System Development Charges	\$ 27,905.81
2011	1.0 MG Tank Topographic Survey and Design	\$ 166,600.70
2012-2014	PSC Hearing for CPCN	\$ 102,411.77
2014	Design 0.75 MG Tank	\$ 67,995.00
2014-2015	PSC Hearing for CPCN	\$ 26,024.20

**Jessamine-South Elkhorn Water District**

**L. Nicholas Strong Request:** Provide a breakdown of all expenditures from the \$1,000,000.00 grant from the Kentucky General Assembly for this project.

**Answer:** The total sum of \$105,000.00 has been disbursed from the \$1,000,000.00 grant. \$5,000.00 was disbursed to the Kentucky Infrastructure Authority for administrative services and the sum of \$100,000.00 has been taken by JSEWD as a reimbursement for engineering services previously paid to HEI.<sup>2</sup>


[L. Nicholas Strong]

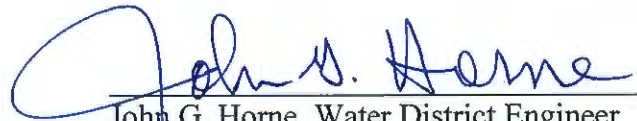
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<sup>2</sup> This same information was provided in the JSEWD Supplemental Responses to Forest Hills Residents' Association, Inc.'s Information Requests filed on November 12, 2014.

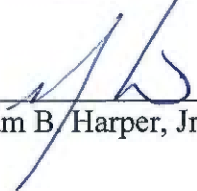
VERIFICATION

The undersigned being duly sworn, depose and say that they have personal knowledge of the matters set forth in the foregoing responses for which they are the identified witness and that the information contained therein is true and correct to the best of their information, knowledge and belief.

  
L. Nicholas Strong, Water District Chairman

  
John G. Horne, Water District Engineer

  
L. Christopher Horne, Water District Engineer

  
Dallam B. Harper, Jr.

COMMONWEALTH OF KENTUCKY  
COUNTY OF JESSAMINE, SCT...

Acknowledged, subscribed and sworn to me, a Notary Public in and before said County and State by L. Nicholas Strong, John G. Horne, L. Christopher Horne and Dallam B. Harper, Jr. this the 10th day of March, 2015.

 498328  
NOTARY PUBLIC NO.

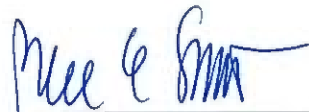


Respectfully submitted,

Anthony G. Martin, Esq.  
P.O. Box 1812  
Lexington, KY 40588

and

Bruce E. Smith, Esq.  
Henry E. Smith, Esq.  
201 South Main Street  
Nicholasville, Kentucky 40356



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**CO-COUNSEL FOR DISTRICT**

**CERTIFICATE OF SERVICE:**

I hereby certify that the foregoing Jessamine-South Elkhorn Water District's Responses to Forest Hills Residents' Association, Inc.'s First Requests for Information with exhibits was served by first class mail, postage prepaid and by e-mail with exhibits, this the 10th day of March, 2015, to:

Robert M. Watt, III, Esq.  
Monica H. Braun, Esq.  
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monica.braun@skofirm.com

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**BRUCE E. SMITH**