EXHIBIT F

COMMONWEALTH OF KENTUCKY BEFORE THE PUBLIC SERVICE COMMISSION

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ELECTRONIC APPLICATION OF MARTIN)	
COUNTY SOLAR PROJECT, LLC FOR A)	
CERTIFICATE OF CONSTRUCTION FOR)	
AN APPROXIMATELY 200 MEGAWATT)	Case No. 2021-00029
MERCHANT ELECTRIC SOLAR GENERATING)	
FACILITY IN MARTIN COUNTY, KENTUCKY)	
PURSUANT TO KRS 278.700 AND	
807 KAR 5:110.	

Site Assessment Report

Martin County Solar Project, LLC ("the Applicant" or "Martin County Solar") files this Site Assessment Report (SAR) as specified in KRS 278.708 contemporaneously with its application requesting from the Kentucky State Board on Electric Generation and Transmission Siting ("the Board") a certificate of construction for an approximately 200 megawatt (MW) merchant electric solar generating facility pursuant to KRS 278.704.

As part of the SAR, the Applicant submits herewith SAR Exhibits A–E. The facts on which the SAR are based are contained in the concurrently filed SAR Exhibits and other information and the statements further made by Martin County Solar as follows:

I. Description of Proposed Project Site

1. Pursuant to KRS 278.708(3)(a), the proposed Martin County Solar Project ("the Project") is situated on 2,541-acre site located near Pilgrim, Kentucky, in Martin County (SAR Exhibit A). The site consists mainly of reclaimed mine land with small areas of intact forested land on the periphery. The proposed project is a 200MW solar facility capable of providing clean,

renewable electricity. Photovoltaic (PV) solar modules are used to convert sunlight into direct current (DC) electricity which is then converted to alternating current (AC) electricity through inverters. Transformers step up the AC electricity to a higher voltage so that it can connect to the regional transmission grid.

- 2. Project components will include PV solar modules mounted on either single axis trackers or fixed-tilt racking systems supported by steel posts. Other components of the PV system include combiner boxes, inverters, high voltage transformers, junction boxes, DC and AC electrical collection systems, a project substation, and gen-tie lines. In addition, the Project will include an operation and maintenance (O&M) trailer, meteorological (MET) towers, access roads, and fencing. During construction, the Project will include temporary laydown yards, temporary construction management trailers, and stormwater management features. The Project will also include a 100MW (up to 6 hours) AC-coupled battery energy storage system (BESS).
- 3. Approximately 128,500 linear feet of private access roads will be utilized within the facility and will be constructed of all-weather gravel. The majority of these roads area already exist. Roads will not exceed 16 feet (4.9 meters) in width, except for turning radii, which will not exceed 50 feet (15.2 meters) in radius. The Project solar arrays will be secured with approximately 153,000 linear feet of perimeter fence, which will not exceed 7 feet (2.1 meters) in height.
- 4. The PV solar modules will be supported by racking systems and oriented in rows running from east to west for fixed tilt systems and north to south for single access trackers, angled at a degree that maximizes solar resource efficiency in the case of fixed tilt systems. The racking system will be supported by approximately 105,000 steel posts installed with a combination of pile-driving machines and augers. The center height of the racking structures will be approximately 4 feet (1.2 meters) to 6.8 feet (2.1 meters) above the ground. The highest point of each module will

be approximately 8 feet (2.4 meters) to 14 feet (4.3 meters) above the ground. The modules will be connected using DC cables that can either be buried in a trench or attached to the racking system. The DC cables gather at the end of racking systems to combiner boxes which are connected to cables routing to an inverter.

- 5. Approximately 69 inverters will be installed throughout the Project to convert the DC power from the 1,500 volt DC collection system to AC power, which will then be transmitted to a Project substation via the 34.5-kilovolt (kV) AC collection system. The AC collection system will include underground and/or overhead segments. Underground segments of the AC collection system will be buried a minimum of 3 feet (0.9 meters) below grade; and overhead portions will not exceed a maximum height of 45 feet (13.7 meters) above grade. The AC collection system will be comprised of medium voltage (MV) cable that will transfer electricity to the Project substation. Approximately 1,800,000 linear feet of DC collection system cables and 450,000 linear feet of AC collection cables would be installed throughout the Project. Collection cables are congregated into common trenches and run adjacent to one another.
- 6. The Project will require one substation that will include one 140-mega volt ampere (MVA) transformer and all necessary equipment to step up incoming MV electricity to the high voltage electricity necessary to interconnect into the existing 138kV Inez substation onsite owned and operated by Kentucky Power Company, an American Electric Power (AEP) Company. The gen-tie line will be no more than 300 feet (91.4 meters) in length, will be located entirely within the project footprint, and will be constructed by the Applicant. Kentucky Power Company will be responsible for any additional transmission equipment located within the switchyard for the Project. It is anticipated that the gen-tie poles and substation components will not exceed 110 feet (33.5 meters) above grade.

7. Pursuant to KRS 278.708(3)(a)(1), a detailed description of the surrounding land uses is identified in the Property Value Impact Study conducted by Kirkland Appraisals, LLC, and attached as SAR Exhibit B. A summary of the surrounding land use is contained in the chart below:

	Acreage	Parcels
Residential	4.65%	60.44%
Agricultural	93.60%	31.87%
Agri/Res	1.69%	2.20%
Cemetery	0.06%	5.49%

- 8. Pursuant to KRS 278.708(3)(a)(2), SAR Exhibit C contains the legal description of the proposed site.
- 9. Pursuant to KRS 278.708(3)(a)(3), the proposed facility layout is included in SAR Exhibit A. The layout shows the proposed access to the site. A fence meeting National Electric Safety Code (NESC) requirements, typically a seven-foot fence, which includes three strings of barbed wire at the top, will secure the facility.
- 10. Pursuant to KRS 278.708(3)(a)(4), the proposed locations of all project infrastructure (buildings, transmission lines, and other structures) are included in the Preliminary Site Layout in SAR Exhibit A.
- 11. Pursuant to KRS 278.708(3)(a)(5), proposed access points are shown in SAR Exhibit A. There is one railway adjacent to the proposed site to the west, however it is located downslope and will not likely be used for any construction or operational activities related to the Project.

- 12. Pursuant to KRS 278.708(3)(a)(6), there are seven 138-kV transmission lines that intersect the Project, connecting to the Inez Substation located in the northern boundary. The substation and transmission lines are owned by Kentucky Power Company. The location of the substation and transmission lines are shown in SAR Exhibit A. At this time, it is not anticipated that the Project will need to receive external utility services during typical plant operation.
- 13. Pursuant to KRS 278.708(3)(a)(7), Martin County has not enacted any zoning ordinances or setback requirements for the location of the Project. There is no planning and zoning commission with jurisdiction over the location of the Project and, therefore, no setback requirements set by such a planning commission exist. The Applicant will file a request to deviate from the setback requirements provided at KRS 278.704(2) by filing a motion to deviate, pursuant to KRS 278.704(4), and thus it will comply with the relevant setback requirements provided at KRS 278.704.
- Pursuant to KRS 278.708(3)(a)(8), a noise assessment was completed for the Project by Stantec Consulting Services in May 2021 (SAR Exhibit D). The noise assessment indicates that during site operation, intermittent noise related to the panel tracking system and the noise of the inverters is expected. The increase in noise is negligible due to the both the vertical and horizontal distances between the panels/inverters and the nearest noise sensitive receptors. The nearest receptor is more than 200 feet from any solar panels and approximately 780 feet from an inverter. During average operation the inverters will be similar in noise level (~35 dB_A) to a soft whisper and will only run when the facility is producing electricity (e.g. when the sun is shining). According to manufacturer specifications the loudest the transformer is expected to be is just over 60 dB_A, at 1 meter from the source, or the level of a normal conversation. Since the nearest receptor is approximately 4,000 feet from the substation/battery storage sites, noise emitted from the

receptor would be less than typical background noise. Site visits and maintenance activities including single vehicular traffic and mowing will be negligible as they are similar to the background agricultural noise characteristics. All site visits, outside of emergency maintenance, will occur during daylight hours.

15. At the nearest receptors no prolonged noise levels above background levels are expected either during operations of the Project.

II. Compatibility with Scenic Surroundings

- 16. Pursuant to KRS 278.708(3)(b), a Property Value Impact Study was completed for the Project by Kirkland Appraisals, LLC in April 2021 (SAR Exhibit B). Please refer to Sections VII-XI from SAR Exhibit B which address appropriate setbacks, topography, harmony of use, and compatibility in detail.
 - 17. An excerpt from Section XI, page 115, reads as follows:

"[L]arger solar farms using fixed or tracking panels are a passive use of the land that is in keeping with a rural/residential area. The solar panels are all less than 15 feet high, which means that the visual impact of the solar panels will be similar in height to a typical greenhouse and lower than a single-story residential dwelling. Were the subject property developed with single family housing, that development would have a much greater visual impact on the surrounding area given that a two-story home with attic could be three to four times as high as these proposed panels."

18. As noted in Section 6 of the Siting Board Application, due to this Project being built at an elevation significantly higher than local residences, visual impacts to nearby resources will be minimal. Additionally, given that the Project is sited on a former coal mine, any changes to current visual impacts will be less than those caused by the former land use.

III. Property Value Impacts

19. Pursuant to KRS 278.708(3)(c), see SAR Exhibit B for a report studying potential property value impacts to owners adjacent to the proposed facility by a certified real estate appraiser. The conclusion of the report, Section XII on page 117, reads as follows:

"The matched pair analysis shows no negative impact in home values due to abutting or adjoining a solar farm as well as no impact to abutting or adjacent vacant residential or agricultural land. The criteria that typically correlates with downward adjustments on property values such as noise, odor, and traffic all support a finding of no impact on property value.

Very similar solar farms in very similar areas have been found by hundreds of towns and counties not to have a substantial injury to abutting or adjoining properties, and many of those findings of no impact have been upheld by appellate courts. Similar solar farms have been approved adjoining agricultural uses, schools, churches, and residential developments.

Based on the data and analysis in this report, it is my professional opinion that the solar farm proposed at the subject property will have no negative impact on the value of adjoining or abutting property. I note that some of the positive implications of a solar farm that have been expressed by people living next to solar farms include protection from future development of residential developments or other more intrusive uses, reduced dust, odor and chemicals from former farming operations, protection from light pollution at night, it's quiet, and there is no traffic."

IV. Anticipated Noise Levels at Property Boundary

20. Pursuant to KRS 278.708(3)(d), noise will occur temporarily and intermittently during the construction phase of the project due to increases in vehicular traffic, construction equipment and assembly of the solar facility components. This construction noise is expected to be of short duration at any given location within the project. The majority of the noise producing activities will occur many hundreds to thousands of feet from, and at significantly higher elevations than, the nearest noise sensitive receptors. The noisiest portion of the construction includes the use of pile drivers to install the solar panel supports. These will only be used very briefly and the worst-case maximum noise $[L_{max} (dB_A)]$ expected to occur at the nearest receptor (Jude & Fletcher

Cemetery) is $88 \, dB_A$ which is similar to a train at $100 \, ft$. The equivalent continuous sound level $[L_{eq} \, (dB_A)]$ from construction including the pile driver is $81.2 \, dB_A$ which is similar to a lawnmower or heavy traffic. The model was also evaluated without the inputs of the pile driver since that is more typical of ongoing construction sound levels. The sound levels for typical construction onsite ranges from a dishwasher to heavy traffic in similarity. Construction activities at the Project site would move around the site and are not anticipated to be performed near a sensitive receptor for more than a few days. The below table shows anticipated peak noise levels at the nearest receptor and residence.

	Distance (ft)	$\begin{array}{c} \textbf{Calculated L_{max}} \\ \textbf{(dB}_{A}) \end{array}$	Calculated L _{eq} (dB _A)
Noise Level at Nearest Receptor - Cemetery (including pile driver)	218	88	81.2
Noise Level at Nearest Receptor – Cemetery (minus pile driver)	218	67.8	65.2
Noise Level at Nearest Residential Receptor (including pile driver)	563	79.8	72.9
Noise Level at Nearest Residential Receptor (minus pile driver)	563	59.5	57.0

21. The nearest receptor will be more than 200 feet from any solar panels, approximately 330 feet from the nearest tracking motor and approximately 780 feet from an inverter. Sound levels from the tracking system can be expected to be the levels of a normal conversation at the nearest receptor (~62 dB_A), while the sounds will be much quieter at most receptors. During average operation the inverters will be similar in noise level (~35 dB_A) to a soft whisper at the nearest receptor. According to manufacturer specifications the loudest the transformer is expected to be is just over 60 dB_A (measured at a distance of 1 meter) or the level of a normal conversation. Since the nearest residential receptor is more than 4,000ft from the substation/battery storage sites, transformers are not expected to add additional noise above

background noise. The below table shows the anticipated noise levels at the nearest receptor generated by source.

	Panel Tracking Inverter Motor		Transfo	ormer	Operation & Maintenance (Automobile)			
	Distance (ft)	dBA	Distance (ft)	dBA	Distance (ft)	dBA	Distance (ft)	dBA
Nearest Receptor - Cemetery	334	62	779	35	3,950	<10	218	58
Nearest Residential Receptor	670	55	1,013	33	3,740	<10	563	50
Note	Operates 1 every 15 n during daylig	ninutes	Continuous low hum during daylight hours		Only two areas located onsite		Typical - Pic in various lo only during hour	ocations business

22. Site visits and maintenance activities including single vehicular traffic and mowing will be negligible as they are similar to the background agricultural noise characteristics. All site visits, outside of emergency maintenance, will occur during daylight hours. At the nearest receptors, no elevated and prolonged noise levels above background levels are expected either during construction or operation of the Project. See SAR Exhibit D for the full report studying the anticipated peak and average noise levels associated with the facility's construction and operation at the Project boundary.

VI. Effect on Road, Railways and Fugitive Dust

23. Pursuant to KRS 278.708(3)(e), a traffic impact study was completed for the Project by Stantec Consulting Services in February 2021 (SAR Exhibit E). It evaluates the Project's impact on road and rail traffic, and anticipated levels of fugitive dust created by vehicles and degradation of roads. See below for a brief summary of the report.

- "As demonstrated in the traffic analysis, the construction period trip generation of workers and trucks will not generate a significant number of trips on local roadways. KY 1714 and KY 1439 will continue to operate at a level of service grade of A during worst-case scenario construction peak traffic. A grade of A represents the highest level of traffic flow, with no to minimal delays. Although no significant, adverse traffic impacts are expected during project construction or operation, using mitigation measures such as ridesharing between construction workers, using appropriate traffic controls or allowing flexible working hours outside of peak hours could be implemented to minimize any potential for delays during the AM and PM peak hours."
- 24. Construction and associated land disturbance associated with the proposed Project may temporarily contribute airborne materials. The Project will utilize Best Management Practices (BMPs) such as: appropriate revegetation measures, application of water, or covering of spoil piles, to minimize dust. Additionally, open-bodied trucks transporting dirt will be covered while moving. During construction activities, water may be applied to the internal road system to reduce dust generation. Water used for dust control is authorized under the Kentucky Pollutant Discharge Elimination System (KPDES) as a non-stormwater discharge activity, which will be required for the proposed Project.
- 25. The Project will likely not be using railways for any construction or operational activities.

VII. Mitigation Measures

- 26. Pursuant to KRS 278.708(4), the Applicant has implemented or intends to implement the following mitigation measures for the Project:
- 27. The Project was responsibly sited on the previously disturbed, former Martiki Coal Mine site. Siting solar projects on former coal mine sites minimizes the environmental impact that occurs as a result of all development while presenting a unique opportunity to repurpose land that might not be suitable for other types of development.

- 28. The Project is sited on a topographic high and surrounded by existing vegetation. Therefore, viewshed impacts to residences in the surrounding area are not expected.
 - 29. The Project has been designed to minimize the amount of tree clearing required.
- 30. The Project has been designed to avoid impacts to Waters of the US (WOTUS) delineated on site. If impact to such features becomes necessary, then the impact will be minimized and the appropriate Clean Water Act (CWA) Section 404/401 permit will be obtained from the U.S. Army Corps of Engineers (USACE) and the Kentucky Energy & Environment Cabinet Department for Environmental Protection Division of Water (Kentucky DOW).
- 31. Areas disturbed during Project construction will be revegetated with a mix of non-invasive native and non-native grass seed mixes to improve soil health and reduce stormwater runoff.
- 32. The Project has been designed to avoid impacts and preserve access to four cemeteries located on site.
- 33. The regulation and permitting of utility scale solar impacts to stormwater and WOTUS will be addressed separately to this Siting Board application. Stormwater discharge is addressed in paragraph 34 and WOTUS are addressed in paragraph 35.
- 34. Regulatory Agency: Kentucky DOW: The Project will obtain a Kentucky Department of Environmental Protection Stormwater Construction General Permit from the Kentucky DOW in compliance with the CWA.
- 35. Regulatory Agency: USACE Louisville District: The Project has been designed to avoid impacts to WOTUS. However, if impact becomes necessary then Martin County Solar will coordinate with the USACE Louisville District and the appropriate CWA Section 404 permit

will be obtained. If necessary, a CWA Section 401 Water Quality Certification will be obtained from the Kentucky DOW.

Dated this 19th day of May 2021.

Respectfully submitted,

FROST BROWN TODD LLC

Gregory T. Dutton

FROST BROWN TODD LLC

400 W. Market Street, 32nd Floor

Louisville, KY 40202

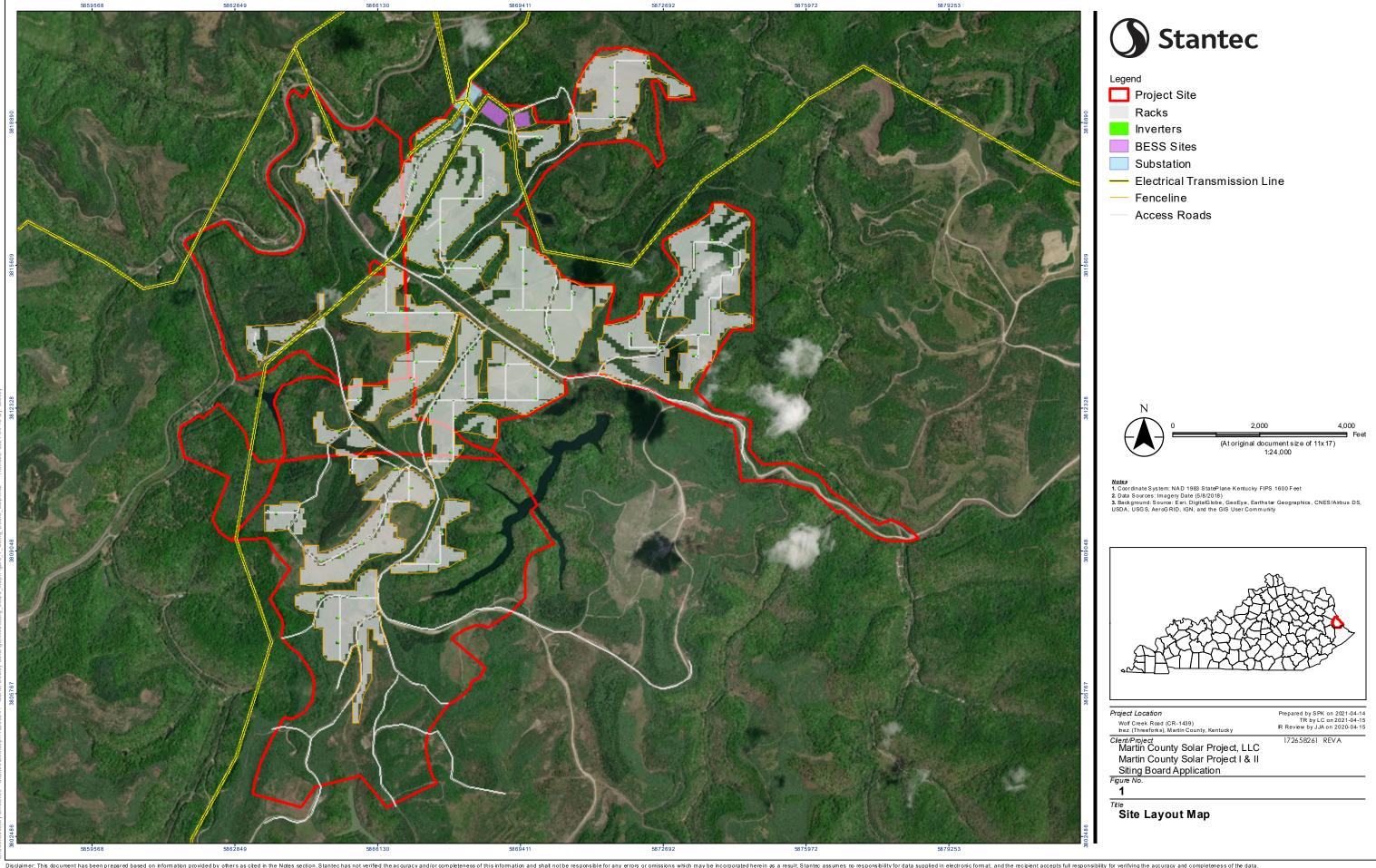
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Counsel for Martin County Solar Project, LLC

SAR EXHIBIT A



SAR EXHIBIT B



Richard C. Kirkland, Jr., MAI 9408 Northfield Court Raleigh, North Carolina 27603 Phone (919) 414-8142 rkirkland2@gmail.com www.kirklandappraisals.com

April 12, 2021

Emily Truebner Martin County Solar Project, LLC 422 Admiral Boulevard Kansas City, MO 64106

RE: Martin County Solar Project, Martin County, KY

Ms. Truebner,

At your request, I have considered the impact of a solar farm proposed to be constructed on a portion of a 4,122-acre assemblage on Petercave Fork Road Road, Three Forks, Martin County, Kentucky. Specifically, I have been asked to give my professional opinion on whether the proposed solar farm will have any impact on adjoining property value and whether "the location and character of the use, if developed according to the plan as submitted and approved, will be in harmony with the area in which it is to be located."

To form an opinion on these issues, I have researched and visited existing and proposed solar farms in Kentucky as well as other states, researched articles through the Appraisal Institute and other studies, and discussed the likely impact with other real estate professionals. I have not been asked to assign any value to any specific property.

This letter is a limited report of a real property appraisal consulting assignment and subject to the limiting conditions attached to this letter. My client is Martin County Solar Project, LLC represented to me by Emily Truebner. My findings support the Kentucky Siting Board Application. The effective date of this consultation is April 12, 2021.

While based in NC, I am also a Kentucky State Certified General Appraiser #5522.

Conclusion

The adjoining properties are well set back from the proposed solar panels and most of the site has good existing landscaping for screening the proposed solar farm. Additional supplemental vegetation is proposed to supplement the areas where the existing trees are insufficient to provide a proper screen.

The matched pair analysis shows no impact on home values due to abutting or adjoining a solar farm as well as no impact to abutting or adjacent vacant residential or agricultural land where the solar farm is properly screened and buffered. The criteria that typically correlates with downward adjustments on property values such as noise, odor, and traffic all indicate that a solar farm is a compatible use for rural/residential transition areas and that it would function in a harmonious manner with this area.

Data from the university studies, broker commentary, and other appraisal studies support a finding of no impact on property value adjoining a solar farm with proper setbacks and landscaped buffers.

Very similar solar farms in very similar areas have been found by hundreds of towns and counties not to have a substantial negative effect to abutting or adjoining properties, and many of those findings of no impact have been upheld by appellate courts. Similar solar farms have been approved with adjoining agricultural uses, schools, churches, and residential developments.

Based on the data and analysis in this report, it is my professional opinion that the solar farm proposed at the subject property will have no impact on the value of adjoining or abutting properties and that the proposed use is in harmony with the area in which it is located. I note that some of the positive implications of a solar farm that have been expressed by people living next to solar farms include protection from future development of residential developments or other more intrusive uses, reduced dust, odor and chemicals from former farming operations, protection from light pollution at night, it's quiet, and there is minimal traffic.

If you have any questions please contact me.

Sincerely,

Richard C. Kirkland, Jr., MAI

Kentucky Certified General Appraiser #5522

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I. Proposed Project and Adjoining Uses

Proposed Use Description

This 100 MW solar farm is proposed to be constructed on a portion of a 4,122-acre assemblage on Petercave Fork Road Road, Three Forks, Martin County, Kentucky. Adjoining land is a mix of residential and agricultural uses, which is very typical of solar farm sites.

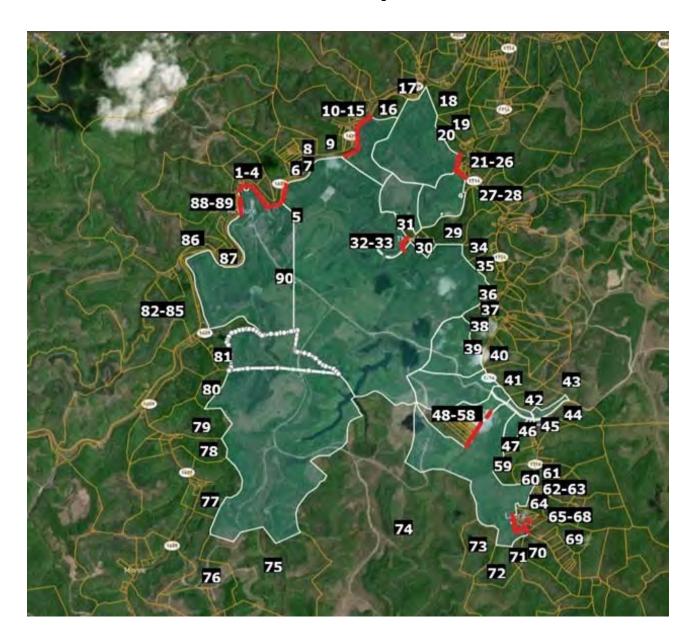
Adjoining Properties

I have considered adjoining uses and included a map to identify each parcel's location. The closest adjoining home will be 1,450 feet from the closest solar panel and the average distance to adjoining homes will be 4,029 feet to the nearest solar panel. These setbacks are much larger than what is typically found and will go beyond what is needed to protect adjoining property values.

The breakdown of those uses by acreage and number of parcels is summarized below.

	Acreage	Parce1s
Residential	4.65%	60.44%
Agricultural	93.60%	31.87%
Agri/Res	1.69%	2.20%
Cemetery	0.06%	5.49%
Total	100.00%	100.00%

Tax Parcel Map



Surrounding Uses

			GIS Data		Adjoin	Adjoin	Distance (ft)
#	MAP ID	Owner	Acres	Present Use	Acres	Parcels	Home/Panel
1		Unknown	1.16	Residential	0.02%	1.10%	1,695
2	0400000002000	Lowe	3.30	Residential	0.06%	1.10%	N/A
3	400000014+00	Jude	2.40	Residential	0.04%	1.10%	N/A
4	040000001401	Maynard	3.70	Residential	0.06%	1.10%	N/A
5	0480000001600	Fletcher	1.30	Residential	0.02%	1.10%	N/A
6	040000001300	Paxton	7.60	Residential	0.13%	1.10%	2,040
7	040000001200	Lowe	2.50	Residential	0.04%	1.10%	2,315
8	040000000100	Mills	15.20	Residential	0.26%	1.10%	N/A
9	0470000014100	Jones	167.10	Agricultural	2.80%	1.10%	N/A
10	0470000014402	Mills	5.10	Residential	0.09%	1.10%	N/A
11	0470000014401	Chapman	3.20	Residential	0.05%	1.10%	2,435
12	0470000014800	Meade	3.20	Residential	0.05%	1.10%	2,280
13	0470000014500	Jarrell	0.09	Residential	0.00%	1.10%	2,970
14	47000013300	Preece	0.60	Residential	0.01%	1.10%	N/A
15	0470000013300	Preece	4.60	Residential	0.08%	1.10%	N/A
16		Preece	28.60	Agricultural	0.48%	1.10%	N/A
17	_	Maynard	6.60	Residential	0.11%	1.10%	N/A
18	.	Farley	58.10	Agricultural	0.97%	1.10%	N/A
19		Jude	36.50	Agri/Res	0.61%	1.10%	2,625
20	_	Jude	24.50	Agricultural	0.41%	1.10%	N/A
21		unknown	1.19	Residential	0.02%	1.10%	2,060
22	_	Jude	3.10	Residential	0.05%	1.10%	N/A
23	_	Maynard Cmtry	0.40	Cemetery	0.01%	1.10%	N/A
24	■	Moore	0.70	Residential	0.01%	1.10%	N/A
25	_	Jude	4.30	Residential	0.07%	1.10%	N/A
26		unknown	0.33	Residential	0.01%	1.10%	N/A
27	•	Fletcher Cmtry	0.20	Cemetery	0.00%	1.10%	N/A
28		Maynard Cmtry	0.20	Cemetery	0.00%	1.10%	N/A
29	_	Hale	64.10	Agri/Res	1.08%	1.10%	1,450
30	■	Triple H R.E.	17.30	Residential	0.29%	1.10%	N/A
31		Triple H R.E.	10.50	Residential	0.18%	1.10%	N/A
32	_	Nichols	1.50	Residential	0.03%	1.10%	N/A
33		unknown	1.03	Residential	0.02%	1.10%	N/A
34	₩	Staton	23.20	Agricultural	0.39%	1.10%	N/A
35	●	Triple H R.E.	36.00	Agricultural	0.60%	1.10%	N/A
36	.	Howard Cmtry	0.40	Cemetery	0.01%	1.10%	N/A
37	_	Staton	14.20	Residential	0.24%	1.10%	N/A
38		Triple H R.E.	45.00	Agricultural	0.76%	1.10%	N/A
39		Moore	3.10	Residential	0.75%	1.10%	N/A
40		Triple H R.E.	36.20	Agricultural	0.61%	1.10%	N/A
41		Triple H R.E.	56.80	Agricultural	0.95%	1.10%	N/A
42	.	Triple H R.E.	41.00	Agricultural	0.69%		
43		BayPointCapitol	1719.70	Agricultural	28.85%	1.10%	N/A
	●	Triple H R.E.	44.20	Agricultural		1.10%	N/A
44		Triple H R.E.	19.50	Residential	0.74%	1.10%	N/A
45	"	Triple H R.E.	0.80	Residential	0.33%	1.10%	N/A
46	-	Triple H R.E.	2.00	Residential	0.01%	1.10%	N/A
47	.	Triple H R.E.	26.30	Agricultural	0.03%	1.10%	N/A
48		_			0.44%	1.10%	N/A
49	049000001100	Pauley	8.70	Residential	0.15%	1.10%	N/A

			GIS Data		Adjoin	Adjoin	Distance (ft)
#	MAP ID	Owner	Acres	Present Use	Acres	Parcels	Home/Panel
50	049000001000	Pauley	7.80	Residential	0.13%	1.10%	N/A
51	049000000900	Triple H R.E.	3.60	Residential	0.06%	1.10%	N/A
52	049000000800	Triple H R.E.	2.20	Residential	0.04%	1.10%	N/A
53	049000000700	Pauley	4.20	Residential	0.07%	1.10%	N/A
54	049000000600	Triple H R.E.	2.60	Residential	0.04%	1.10%	N/A
55	049000000500	Triple H R.E.	2.60	Residential	0.04%	1.10%	N/A
56	049000000400	Pauley	5.00	Residential	0.08%	1.10%	N/A
57		Unknown	0.70	Residential	0.01%	1.10%	N/A
58	049000000200	Fletcher Cmtry	0.70	Cemetery	0.01%	1.10%	N/A
59	049000002400	Maynard	39.90	Residential	0.67%	1.10%	7,035
60	049000002700	Parsley	5.50	Residential	0.09%	1.10%	7,995
61	057000000200	Fields	30.40	Agricultural	0.51%	1.10%	N/A
62	057000000300	Maynard	1.50	Residential	0.03%	1.10%	8,470
63	057000000400	Fields	0.09	Residential	0.00%	1.10%	N/A
64	057000000500	Fields	21.60	Agricultural	0.36%	1.10%	N/A
65	057000001300	Triple H R.E.	6.30	Residential	0.11%	1.10%	N/A
66		Unknown	0.90	Residential	0.02%	1.10%	N/A
67	049000001301	Wolf CR	0.90	Residential	0.02%	1.10%	N/A
68		Unknown	0.90	Residential	0.02%	1.10%	N/A
69	057000001500	Stanley	2.00	Residential	0.03%	1.10%	9,935
70	057000001600	Pauley	48.90	Agricultural	0.82%	1.10%	N/A
71	057000001600	Pauley	44.30	Agricultural	0.74%	1.10%	N/A
72	049000003200	Moore	13.40	Residential	0.22%	1.10%	N/A
73	049000003200	Moore	55.50	Agricultural	0.93%	1.10%	N/A
74	049000003201	Moore	73.30	Agricultural	1.23%	1.10%	N/A
75	049000001400	Pocahantas	1651.60	Agricultural	27.71%	1.10%	N/A
76	041000002400	Pocahantas	857.90	Agricultural	14.39%	1.10%	N/A
77	041000001300	Pocohantas	151.50	Agricultural	2.54%	1.10%	N/A
78	041000000800	Muncy	95.70	Agricultural	1.61%	1.10%	N/A
79	041000000500	Muncy	50.30	Agricultural	0.84%	1.10%	N/A
80	041000000300	Moore	100.10	Agricultural	1.68%	1.10%	N/A
81	041000000200	Triple H R.E.	32.80	Agricultural	0.55%	1.10%	N/A
82	040000002002	Revelation Enrgy	57.90	Agricultural	0.97%	1.10%	N/A
83	040000004700	Cmnwlth Coal	4.10	Residential	0.07%	1.10%	N/A
84	040000004500	Preece	1.40	Residential	0.02%	1.10%	N/A
85	040000001100	Pocohantas	4.10	Residential	0.07%	1.10%	N/A
86	040000004400	McCoy	3.00	Residential	0.05%	1.10%	3,100
87	040000002000	LOwe	7.70	Residential	0.13%	1.10%	N/A
88	040000002000	Lowe	6.20	Residential	0.10%	1.10%	N/A
89	040000002000	LOwe	0.70	Residential	0.01%	1.10%	N/A
90	040000002603	Edmonds	1.20	Residential	0.02%	1.10%	N/A
91	040000002601	Blackburn Cmtry	1.70	Cemetery	0.03%	1.10%	N/A
		Total	5959.990		100.00%	100.00%	4,029

The data above was compiled using the AcreValue website. According to the Martin County Property Valuation Administration, there is no online GIS for Martin County and AcreValue is a reasonable resource for this information.

II. Methodology and Discussion of Issues

Standards and Methodology

I conducted this analysis using the standards and practices established by the Appraisal Institute and that conform to the Uniform Standards of Professional Appraisal Practice. The analyses and methodologies contained in this report are accepted by all major lending institutions, and they are used in Kentucky and across the country as the industry standard by certified appraisers conducting appraisals, market analyses, or impact studies and are considered adequate to form an opinion of the impact of a land use on neighboring properties. These standards and practices have also been accepted by the courts at the trial and appellate levels and by federal courts throughout the country as adequate to reach conclusions about the likely impact a use will have on adjoining or abutting properties.

The aforementioned standards compare property uses in the same market and generally within the same calendar year so that fluctuating markets do not alter study results. Although these standards do not require a linear study that examines adjoining property values before and after a new use (e.g. a solar farm) is developed, some of these studies do in fact employ this type of analysis. Comparative studies, as used in this report, are considered an industry standard.

The type of analysis employed is a Matched Pair Analysis or Paired Sales Analysis. This methodology is outlined in **The Appraisal of Real Estate**, Twelfth Edition by the Appraisal Institute pages 438-439. It is further detailed in **Real Estate Damages**, Third Edition, pages 33-36 by Randall Bell PhD, MAI. Paired sales analysis is used to support adjustments in appraisal work for factors ranging from the impact of having a garage, golf course view, or additional bedrooms. It is an appropriate methodology for addressing the question of impact of an adjoining solar farm. The paired sales analysis is based on the theory that when two properties are in all other respects equivalent, a single difference can be measured to indicate the difference in price between them. Dr. Bell describes it as comparing a test area to control areas. In the example provided by Dr. Bell he shows five paired sales in the test area compared to 1 to 3 sales in the control areas to determine a difference. I have used 3 sales in the control areas in my analysis for each sale developed into a matched pair.

Determining what is an External Obsolescence

An external obsolescence is a use of property that, because of its characteristics, might have a negative impact on the value of adjacent or nearby properties because of identifiable impacts. Determining whether a use would be considered an external obsolescence requires a study that isolates that use, eliminates any other causing factors, and then studies the sales of nearby versus distant comparable properties. The presence of one or a combination of key factors does not mean the use will be an external obsolescence, but a combination of these factors tend to be present when market data reflects that a use is an external obsolescence.

External obsolescence is evaluated by appraisers based on several factors. These factors include but are not limited to:

- 1) Traffic. Solar Farms are not traffic generators.
- 2) Odor. Solar farms do not produce odor.
- 3) Noise. Solar farms generate no noise concerns and are silent at night.
- 4) Environmental. Solar farms do not produce toxic or hazardous waste. Grass is maintained underneath the panels so there is minimal impervious surface area.

- 5) Appearance/Viewshed. This is the one area that potentially applies to solar farms. However, solar farms are generally required to provide significant setbacks and landscaping buffers to address that concern. Furthermore, any consideration of appearance of viewshed impacts has to be considered in comparison with currently allowed uses on that site. For example if a residential subdivision is already an allowed use, the question becomes in what way does the appearance impact adjoining property owners above and beyond the appearance of that allowed subdivision or other similar allowed uses.
- 6) Other factors. I have observed and studied many solar farms and have never observed any characteristic about such facilities that prevents or impedes neighbors from fully using their homes or farms or businesses for the use intended.

Relative Solar Farm Sizes

Solar farms have been increasing in size in recent years. Much of the data collected is from existing, older solar farms of smaller size, but there are numerous examples of sales adjoining 75 to 80 MW facilities that show a similar trend as the smaller solar farms. This is understandable given that the primary concern relative to a solar farm is the appearance or view of the solar farm, which is typically addressed through setbacks and landscaping buffers. The relevance of data from smaller solar farms to larger solar farms is due to the primary question being one of appearance. IF the solar farm is properly screened, then little of the solar farm would be seen from adjoining property regardless of how many acres are involved.

Larger solar farms are often set up in sections where any adjoining owner would only be able to see a small section of the project even if there were no landscaping screen. Once a landscaping screen is in place, the primary view is effectively the same whether you are adjoining a 5 MW, 20 MW or 100 MW facility.

I have split out the data for the matched pairs adjoining larger solar farms only to illustrate the similarities later in this report.

Steps Involved in the Analysis

The paired sales analysis employed in this report follows the following process:

- 1. Identify sales of property adjoining existing solar farms.
- 2. Compare those sales to similar property that does not adjoin an existing solar farm.
- 3. Confirmation of sales are noted in the analysis write ups.
- 4. Distances from the homes to panels are included as a measure of the setbacks.
- 5. Topographic differences across the solar farms themselves are likewise noted along with demographic data for comparing similar areas.

There are a number of Sale/Resale comparables included in the write ups, but most of the data shown is for sales of homes after a solar farm has been announced (where noted) or after a solar farm has been constructed.

III. Research on Solar Farms

A. Appraisal Market Studies

I have also considered a number of impact studies completed by other appraisers as detailed below.

CohnReznick - Property Value Impact Study: Adjacent Property Values Solar Impact Study: A Study of Eight Existing Solar Facilities

Patricia McGarr, MAI, CRE, FRICS, CRA and Andrew R. Lines, MAI with CohnReznick completed an impact study for a proposed solar farm in Cheboygan County, Michigan completed on June 10, 2020. I am familiar with this study as well as a number of similar such studies completed by CohnReznick. I have not included all of these studies but I submit this one as representative of those studies.

This study addresses impacts on value from eight different solar farms in Michgian, Minnesota, Indina, Illinois, Virginia and North Carolina. These solar farms are 19.6 MW, 100 MW, 11.9 MW, 23 MW, 71 MW, 61 MW, 40 MW, and 19 MW for a range from 11.9 MW to 100 MW with an average of 31 MW and a median of 31.5 MW. They analyzed a total of 24 adjoining property sales in the Test Area and 81 comparable sales in the Control Area over a five-year period.

The conclusion of this study is that there is no evidence of any negative impact on adjoining property values based on sales prices, conditions of sales, overall marketability, potential for new development or rate of appreciation.

Christian P. Kaila & Associates - Property Impact Analysis - Proposed Solar Power Plant Guthrie Road, Stuarts Draft, Augusta County, Virginia

Christian P. Kaila, MAI, SRA and George J. Finley, MAI developed an impact study as referenced above dated June 16, 2020. This was for a proposed 83 MW facility on 886 acres.

Mr. Kaila interviewed appraisers who had conducted studies and reviewed university studies and discussed the comparable impacts of other development that was allowed in the area for a comparative analysis of other impacts that could impact viewshed based on existing allowed uses for the site. He also discussed in detail the various other impacts that could cause a negative impact and how solar farms do not have such characteristics.

Mr. Kaila also interviewed County Planners and Real Estate Assessor's in eight different Virginia counties with none of the assessor's identifying any negative impacts observed for existing solar projects.

Mr. Kaila concludes on a finding of no impact on property values adjoining the indicated solar farm.

Fred Beck, MAI, CCIM - Impact Analysis in Lincoln County 2013

Mr. Fred Beck, MAI, CCIM completed an impact analysis in 2013 for a proposed solar farm that concluded on a negative impact on value. That report relied on a single cancelled contract for an adjoining parcel where the contracted buyers indicated that the solar farm was the reason for the cancellation. It also relied on the activities of an assessment impact that was applied in a nearby county.

Mr. Beck was interviewed as part of the Christian Kalia study noted above. From that I quote "Mr. Beck concluded on no effect on moderate priced homes, and only a 5% change in his limited research of higher priced homes. His one sale that fell through is hardly a reliable sample. It also was misleading on Mr. Beck's part to report the lower re-assessments since the primary cause of the

re-assesments were based on the County Official, who lived adjacent to the solar farm, appeal to the assessor for reductions with his own home." In that Clay County Case study the noted lack of lot sales after announcement of the solar farm also coincided with the recession in 2008/2009 and lack of lot sales effectively defined that area during that time.

I further note, that I was present at the hearing where Mr. Beck presented these findings and the predominance of his argument before the Lincoln County Board of Commissioner's was based on the one cancelled sale as well as a matched pair analysis of high-end homes adjoining a four-story call center. He hypothesized that a similar impact from that example could be compared to being adjacent solar farm without explaining the significant difference in view, setbacks, landscaping, traffic, light, and noise. Furthermore, Mr. Beck did have matched pairs adjoining a solar farm in his study that he put in the back of his report and then ignored as they showed no impact on property value.

Also noted in the Christian Kalia interview notes is a response from Mr. Beck indicating that in his opinion "the homes were higher priced homes and had full view of the solar farm." Based on a description of screening so that "the solar farm would not be in full view to adjoining property owners. Mr. Beck said in that case, he would not see any drop in property value."

NorthStar Appraisal Company - Impact Analysis for Nichomus Run Solar, Pilesgrove, NJ, September 16, 2020

Mr. William J. Sapio, MAI with NorthStar Appraisal Company considered a matched pair analysis for the potential impact on adjoining property values to this proposed 150 MW solar farm. Mr. Sapio considered sales activity in a subdivision known as Point of Woods in South Brunswick Township and identified two recent new homes that were constructed and sold adjoining a 13 MW solar farm and compared them to similar homes in that subdivision that did not adjoin the solar farm. These homes sold in the \$1,290,450 to \$1,336,613 price range and these homes were roughly 200 feet from the closest solar panel.

Based on this analysis, he concluded that the adjoining solar farm had no impact on adjoining property value.

Conclusion of Impact Studies

Of the four studies noted two included actual sales data to derive an opinion of no impact on value. The only study to conclude on a negative impact was the Fred Beck study based on no actual sales data, and he has since indicated that with landscaping screens he would not conclude on a negative impact.

I have relied on these studies as additional support for the findings in this impact analysis.

B. Articles

I have also considered a number of articles on this subject as well as conclusions and analysis as noted below.

Farm Journal Guest Editor, March 22, 2021 - Solar's Impact on Rural Property Values

Andy Ames, ASFMRA (American Society of Farm Managers and Rural Appraisers) published this article that includes a discussion of his survey of appraisers and studies on the question of property value related to solar farms. He discusses the university studies that I have cited as well as Patricia McGarr, MAI.

He also discusses the findings of Donald A. Fisher, ARA, who served six years at the Chair of the ASFMRA's National Appraisal Review Committee. He is also the Executive Vice President of the CNY

Pomeroy Appraiser and has conducted several market studies on solar farms and property impact. He is quoted in the article as saying, "Most of the locations were in either suburban or rural areas, and all of those studies found either a neutral impact, or ironically, a positive impact, where values on properties after installation of solar farms went up higher than time trends."

Howard Halderman, AFM, President and CEO of Halderman Real Estate and Farm Management attended the ASFMRA solar talk hosted by the Indiana Chapter of the ASFMRA and he concludes that other rural properties would likely see no impact and farmers and landowners shown even consider possible benefits. "In some cases, farmers who rent land to a solar company will insure the viability of their farming operation for a longer time period. This makes them better long-term tenants or land buyers so one can argue that higher rents and land values will follow due to the positive impact the solar leases offer."

National Renewable Energy Laboratory - Top Five Large-Scale Solar Myths, February 3, 2016

Megan Day reports form NREL regarding a number of concerns neighbors often express. Myth #4 regarding property value impacts addresses specifically the numerous studies on wind farms that show no impact on property value and that solar farms have a significantly reduced visual impact from wind farms. She highlights that the appearance can be addressed through mitigation measures to reduce visual impacts of solar farms through vegetative screening. Such mitigations are not available to wind farms given the height of the windmills and again, those studies show no impact on value adjoining wind farms.

North Carolina State University: NC Clean Energy Technology Center White Paper: Balancing Agricultural Productivity with Ground-Based Solar Photovoltaic (PV) Development (Version 2), May 2019

Tommy Cleveland and David Sarkisian wrote a white paper for NCSU NC Clean Energy Technology Center regarding the potential impacts to agricultural productivity from a solar farm use. I have interviewed Tommy Cleveland on numerous occasions and I have also heard him speak on these issues at length as well. He addresses many of the common questions regarding how solar farms work and a detailed explanation of how solar farms do not cause significant impacts on the soils, erosion and other such concerns. This is a heavily researched paper with the references included.

North Carolina State University: NC Clean Energy Technology Center White Paper: Health and Safety Impacts of Solar Photovoltaics, May 2017

Tommy Cleveland wrote a white paper for NCSU NC Clean Energy Technology Center regarding the health and safety impacts to address common questions and concerns related to solar farms. This is a heavily researched white paper addressing questions ranging from EMFs, fire safety, as well as vegetation control and the breakdown of how a solar farm works.

C. Broker Commentary

In the process of working up the matched pairs used later in this report, I have collected comments from brokers who have actually sold homes adjoining solar farms indicating that the solar farm had no impact on the marketing, timing, or sales price for the adjoining homes. I have comments from 12 such brokers within this report including brokers from Kentucky, Virginia, Tennessee, and North Carolina.

I have additional commentary from other states including New Jersey and Michigan that provide the same conclusion.

IV. <u>University Studies</u>

I have also considered the following studies completed by four different universities related to solar farms and impacts on property values.

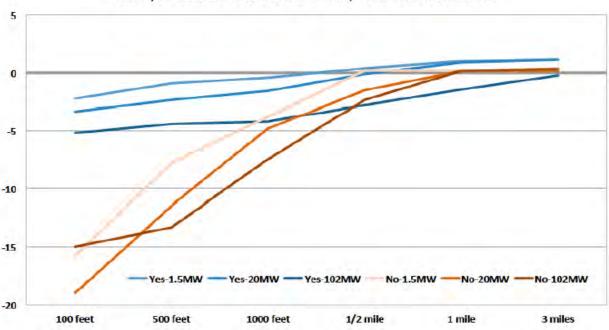
A. University of Texas at Austin, May 2018 An Exploration of Property-Value Impacts Near Utility-Scale Solar Installations

This study considers solar farms from two angles. First it looks at where solar farms are being located and concludes that they are being located primarily in low density residential areas where there are fewer homes than in urban or suburban areas.

The second part is more applicable in that they conducted a survey of appraisers/assessors on their opinions of the possible impacts of proximity to a solar farm. They consider the question in terms of size of the adjoining solar farm and how close the adjoining home is to the solar farm. I am very familiar with this part of the study as I was interviewed by the researchers multiple times as they were developing this. One very important question that they ask within the survey is very illustrative. They asked if the appraiser being surveyed had ever appraised a property next to a solar farm. There is a very noticeable divide in the answers provided by appraisers who have experience appraising property next to a solar farm versus appraisers who self-identify as having no experience or knowledge related to that use.

On Page 16 of that study they have a chart showing the responses from appraisers related to proximity to a facility and size of the facility, but they separate the answers as shown below with appraisers with experience in appraising properties next to a solar farm shown in blue and those inexperienced shown in brown. Even within 100 feet of a 102 MW facility the response from experienced appraisers were -5% at most on impact. While inexperienced appraisers came up with significantly higher impacts. This chart clearly shows that an uninformed response widely diverges from the sales data available on this subject.

Chart B.2 - Estimates of Property Value Impacts (%) by Size of Facility,
Distance, & Respondent Type



Have you assessed a home near a utility-scale solar installation?

Furthermore, the question cited above does not consider any mitigating factors such as landscaping buffers or screens which would presumably reduce the minor impacts noted by experienced appraisers on this subject.

The conclusion of the researchers is shown on Page 23 indicated that "Results from our survey of residential home assessors show that the majority of respondents believe that proximity to a solar installation has either no impact or a positive impact on home values."

This analysis supports the conclusion of this report that the data supports no impact on adjoining property values.

B. University of Rhode Island, September 2020

Property Value Impacts of Commercial-Scale Solar Energy in Massachusetts and Rhode Island

The University of Rhode Island published a study entitled **Property Value Impacts of Commercial-Scale Solar Energy in Massachusetts and Rhode Island** on September 29, 2020 with lead researchers being Vasundhara Gaur and Corey Lang. I have read that study and interviewed Mr. Corey Lang related to that study. This study is often cited by opponents of solar farms but the findings of that study have some very specific caveats according to the report itself as well as Mr. Lang from the interview.

While that study does state in the Abstract that they found depreciation of homes within 1-mile of a solar farm, that impact is limited to non-rural locations. On Pages 16-18 of that study under Section 5.3 Heterogeneity in treatment effect they indicate that the impact that they found was limited to non-rural locations with the impact in rural locations effectively being zero. For the study they defined "rural" as a municipality/township with less than 850 population per square mile.

They further tested the robustness of that finding and even in areas up to 2,000 population per square mile they found no statistically significant data to suggest a negative impact. They have not specifically defined a point at which they found negative impacts to begin, as the sensitivity study stopped checking at the 2,000-population dataset.

Where they did find negative impacts was in high population density areas that was largely a factor of running the study in Massachusetts and Rhode Island which the study specifically cites as being the 2nd and 3rd most population dense states in the USA. Mr. Lang in conversation as well as in recorded presentations has indicated that the impact in these heavily populated areas may reflect a loss in value due to the scarce greenery in those areas and not specifically related to the solar farm itself. In other words, any development of that site might have a similar impact on property value.

Based on this study I have checked the population for the Threeforks CCD of Martin County, which has a population of 1,135 population for 2020 based on SiteToDoBusiness by ESRI and a total area of 54 square miles. This indicates a population density of 21 people per square mile which puts this well below the threshold indicated by the Rhode Island Study. I also checked the censusreporter.org website which indicated a population of 1,051 as of 2019 with a population density of 19.4 people per square mile.

I therefore conclude that the Rhode Island Study supports the indication of no impact on adjoining properties for the proposed solar farm project.

C. Master's Thesis: ECU by Zachary Dickerson July 2018

A Solar Farm in My Backyard? Resident Perspectives of Utility-Scale Solar in Eastern North Carolina

This study was completed as part of a Master of Science in Geography Master's Thesis by Zachary Dickerson in July 2018. This study sets out to address three questions:

- 1. Are there different aspects that affect resident satisfaction regarding solar farms?
- 2. Are there variations in satisfaction for residents among different geographic settings, e.g. neighborhoods adjacent to the solar farms or distances from the solar farms?
- 3. How can insight from both the utility and planning sectors, combined with knowledge gained from residents, fill gaps in communication and policy writing in regard to solar farms?

This was done through survey and interview with adjacent and nearby neighbors of existing solar farms. The positive to neutral comments regarding the solar farms were significantly higher than negative. The researcher specifically indicates on Page 46 "The results show that respondents generally do not believe the solar farms pose a threat to their property values."

The most negative comments regarding the solar farms were about the lack of information about the approval process and the solar farm project prior to construction.

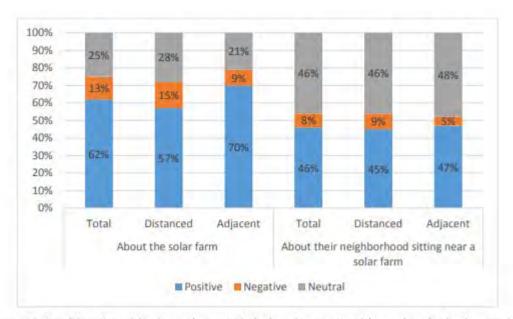


Figure 11: Residents' positive/negative word choices by geographic setting for both questions

D. Ernest Orlando Lawrence Berkeley National Laboratory, December, 2019

The Impact of Wind Power Projects on Residential Property Values in the United States: A Multi-Site Hedonic Analysis

This study addresses wind farms and not solar farms but it is a reasonable consideration. The activity on a wind farm is significantly different in terms of the mechanics and more particularly on the appearance or viewshed as wind farms cannot be screened from adjoining property owners. This study was commissioned by the Department of Energy and not by any developer. This study examined 7,500 home sales between 1996 and 2007 in order to track sales prices both before and after a wind energy facility was announced or built. This study specifically looked into possible stigma, nuisance, and scenic vista.

On page 17 of that study they conclude "Although the analysis cannot dismiss the possibility that individual homes or small numbers of homes have been or could be negatively impacted, it finds that if these impacts do exist, they are either too small and/or too infrequent to result in any widespread, statistically observable impact."

Given that solar farms are a similar use, but with a lower profile and therefore a lower viewshed than the wind farms, it is reasonable to translate these findings of no impact to solar farms.

V. Summary of Solar Projects in Kentucky

I have researched the solar projects in Kentucky. I identified the solar farms through the Solar Energy Industries Association (SEIA) Major Projects List and then excluded the roof mounted facilities. This leaves only six solar farms in Kentucky for analysis at this time.

One of these six solar farms has limited analysis potential: E.W. Brown near Harrodsburg in Mercer County. The E. W. Brown 10 MW solar farm was built in 2014 and adjoins three coal-fired units. Given that research studies that I have read regarding fossil fuel power plants including "The Effect of Power Plants on Local Housing Values and Rents" by Lucas W. Davis and published May 2010, it would not be appropriate to use any data from this solar farm due to the influence of the coal-fired power plant that could have an impact on up to a one-mile radius. I note that the closest home to a solar panel at this site is 565 feet and the average distance is 1,026 feet. The homes are primarily clustered at the Herrington Lake frontage. Recent sales in this area range from \$164,000 to \$212,000 for these waterfront homes. Again, no usable data can be derived from this solar farm due to the adjoining coal fired plant.

Furthermore, the Cooperative solar farm in Shelby County is a 0.5 MW facility on 35 acres built in 2020 that is proposed to eventually be 4 MW. This project is too new and there have been no home sales adjoining this facility. I also cannot determine how close the nearby homes are to the adjoining solar panels as the aerial imagery does not yet show these panels.

I have provided a summary of projects below and additional detailed information on the projects on the following pages. I specifically note the similarity in most of the sites in Kentucky in terms of mix of adjoining uses, topography, and distances to adjoining homes.

The number of solar farms currently in Kentucky is low compared to a number of other states and North Carolina in particular. I have looked at solar farms in Kentucky for sales activity, but the small number of sites coupled with the relatively short period of time these solar farms have been in place has not provided as many examples of sales adjoining a solar farm as I am able to pull from other places. I have therefore also considered sales in other states, but I have shown in the summary how the demographics around the solar farms in other locations relate to the demographics around the proposed solar farm to show that generally similar locations are being considered. The similarity of the sites in terms of adjoining uses and surrounding demographics makes it reasonable to compare the lack of significant impacts in other areas would translate into a similar lack of significant impacts at the subject site.

						Total	Used	Avg. Dist	Closest	Adjoin	ing Use	by Acre			Adjoinin	g Use by	y Numb	er
Parcel i	State	County	City	Name	Output (MW)		t Acres Acres to home Home Res		Res	Res Agri Agri/Res Com			ResiderA	griculC	Comm/I	nd %		
61	.0 KY	Warren	Bowling Green	Bowling Green	2	17.36	17.36	720	720	1%	64%	0%	36%	100%	10%	30%	60%	100%
61	1 KY	Clark	Winchester	Cooperative Solar I	8.5	181.47	63	2,110	2,040	0%	96%	3%	0%	100%	22%	78%	0%	100%
61	2 KY	Kenton	Walton	Walton 2	2	58.03	58.03	891	120	21%	0%	60%	19%	100%	65%	0%	35%	100%
61	3 KY	Grant	Crittenden	Crittenden	2.7	181.7	34.1	1,035	345	22%	27%	51%	0%	100%	96%	4%	0%	100%
61	7 KY	Metcalfe	Summer Shade	Glover Creek		968.2	322.4	1,731	375	6%	25%	69%	0%	100%	83%	17%	0%	100%
61	8 KY	Garrard	Lancaster	Turkey Creek		752.8	297.1	976	240	8%	36%	51%	5%	100%	73%	12%	15%	100%
		Total Num	ber of Solar Farms		6													
				Average	3.80	359.9	132.0	1244	640	9%	41%	39%	10%		58%	24%	18%	
				Median	2.35	181.6	60.5	1006	360	7%	32%	51%	3%		69%	14%	7%	
				High	8.50	968.2	322.4	2110	2040	22%	96%	69%	36%		96%	78%	60%	
				Low	2.00	17.4	17.4	720	120	0%	0%	0%	0%		3%	0%	0%	





This project was built in 2011 and located on 17.36 acres for a 2 MW project on Scotty's Way with the adjoining uses being primarily industrial. The closest dwelling is 720 feet from the nearest panel.

Industrial	35.53% 100.00%	60.00% 100.00 %
Agricultural	63.89%	30.00%
Residential	0.58%	10.00%
	Acreage	Parcels





This project was built in 2017 on 63 acres of a 181.47-acre parent tract for an 8.5 MW project with the closest home at 2,040 feet from the closest solar panel.

	Acreage	Parcels
Residential	0.15%	11.11%
Agricultural	96.46%	77.78%
Agri/Res	3.38%	11.11%
Total	100.00%	100.00%

612: Walton 2 Solar, Walton, KY



This project was built in 2017 on 58.03 acres for a 2 MW project with the closest home 120 feet from the closest panel.

	Acreage	Parcels
Residential	20.84%	47.06%
Agri/Res	59.92%	17.65%
Commercial	19.25%	35.29%
Total	100.00%	100.00%





This project was built in late 2017 on 34.10 acres out of a 181.70-acre tract for a 2.7 MW project where the closest home is 345 feet from the closest panel.

Adjoining Use Breakdown

	Acreage	Parcels
Residential	1.65%	32.08%
Agricultural	73.39%	39.62%
Agri/Res	23.05%	11.32%
Commercial	0.64%	9.43%
Industrial	0.19%	3.77%
Airport	0.93%	1.89%
Substation	0.15%	1.89%
Total	100.00%	100.00%



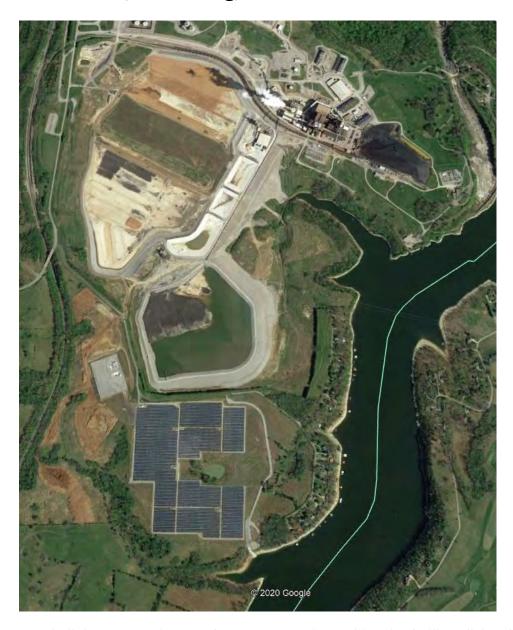


This project was built in 2020 on 35 acres for a 0.5 MW project that is approved for expansion up to 4 MW.

Adjoining Use Breakdown

	Acreage	Parcels
Residential	6.04%	44.44%
Agricultural	10.64%	11.11%
Agri/Res	31.69%	33.33%
Institutional	51.62%	11.11%
Total	100.00%	100.00%

660: E.W. Brown Solar, Harrodsburg, KY



This project was built in 2016 on 50 acres for a 10 MW project. This solar facility adjoins three coal-fired units, which makes analysis of these nearby home sales problematic as it is impossible to extract the impact of the coal plant on the nearby homes especially given the lake frontage of the homes shown.

Adjoining Use Breakdown

	Acreage	Parcels
Residential	2.77%	77.27%
Agricultural	43.92%	9.09%
Agri/Res	28.56%	9.09%
Industrial	24.75%	4.55%
Total	100.00%	100.00%

VI. Market Analysis of the Impact on Value from Solar Farms

I have researched hundreds of solar farms in numerous states to determine the impact of these facilities on the value of adjoining properties. This research has primarily been in North Carolina, but I have also conducted market impact analyses in Virginia, South Carolina, Tennessee, Texas, Oregon, Mississippi, Maryland, New York, California, Missouri, Florida, Montana, Georgia, Kentucky, and New Jersey.

I have derived a breakdown of the adjoining uses to show where solar farms are located. A summary showing the results of compiling that data over hundreds of solar farms is shown later in the Scope of Research section of this report.

I also consider whether the properties adjoining a solar farm in one location have characteristics similar to the properties abutting or adjoining the proposed site so that I can make an assessment of market impact on each proposed site. Notably, in most cases solar farms are placed in areas very similar to the site in question, which is surrounded by low density residential and agricultural uses. In my over 700 studies, I have found a striking repetition of that same typical adjoining property use mix in over 90% of the solar farms I have looked at. Matched pair results in multiple states are strikingly similar, and all indicate that solar farms – which generate very little traffic, and do not generate noise, dust or have other harmful effects – do not negatively impact the value of adjoining or abutting properties.

I have previously been asked by the Kentucky Siting Board about how the solar farms and the matched pair sets were chosen. This is the total of all the usable home and land sales adjoining the 750+ solar farms that I have looked at over the last 10 years. Most of the solar farms that I have looked at are only a few years old and have not been in place long enough for home or land sales to occur next to them for me to analyze. There is nothing unusual about this given the relatively rural locations of most of the solar farms where home and land sales occur much less frequently than they do in urban and suburban areas and the number of adjoining homes is relatively small.

I review the solar farms that I have looked at periodically to see if there are any new sales. If there is a sale I have to be sure it is not an inhouse sale or to a related family member. A great many of the rural sales that I find are from one family member to another, which makes analysis impossible given that these are not "arm's length" transactions. There are also numerous examples of sales that are "arm's length" but are still not usable due to other factors such as adjoining significant negative factors such as a coal fired plant or at a landfill or prison. I have looked at homes that require a driveway crossing a railroad spur, homes in close proximity to large industrial uses, as well as homes adjoining large state parks, or homes that are over 100 years old with multiple renovations. Such sales are not usable as they have multiple factors impacting the value that are tangled together. You can't isolate the impact of the coal fired plant, the industrial building, or the railroad unless you are comparing that sale to a similar property with similar impacts. Matched pair analysis requires that you isolate properties that only have one differential to test for, which is why the type of sales noted above is not appropriate for analysis.

After my review of all sales and elimination of the family transactions and those sales with multiple differentials, I am left with the matched pairs shown in this report to analyze. I do have additional matched pair data in other areas of the United States that were not included in this report due to being states less comparable to Kentucky than those shown. The only other sales that I have eliminated from the analysis are home sales under \$100,000, which there haven't been many such examples, but at that price range it is difficult to identify any impacts through matched pair analysis. I have not cherry picked the data to include just the sales that support one direction in value, but I have included all of them both positive and negative with a preponderance of the evidence supporting no impact to mild positive impacts.

A. Kentucky and Adjoining States Data

Matched Pair - Crittenden Solar, Crittenden, KY



This solar farm was built in December 2017 on a 181.70-acre tract but utilizing only 34.10 acres. This is a 2.7 MW facility with residential subdivisions to the north and south.

I have identified five home sales to the north of this solar farm on Clairborne Drive and one home sale to the south on Eagle Ridge Drive since the completion of this solar farm. The home sale on Eagle Drive is for a \$75,000 home and all of the homes along that street are similar in size and price range. According to local broker Steve Glacken with Cutler Real Estate these are the lowest price range/style home in the market. I have not analyzed that sale as it would unlikely provide significant data to other homes in the area.

Mr. Glacken is currently selling lots at the west end of Clairborne for new home construction. He indicated that the solar farm near the entrance of the development has been a complete non-factor and none of the home sales are showing any concern over the solar farm. Most of the homes are in the \$250,000 to \$280,000 price range. The vacant residential lots are being marketed for \$28,000 to \$29,000. The landscaping buffer is considered light, but the rolling terrain allows for distant views of the panels from the adjoining homes along Clairborne Drive.

The first home considered is a bit of an anomaly for this subdivision in that it is the only manufactured home that was allowed in the community. It sold on January 3, 2019. I compared that sale to three other manufactured home sales in the area making minor adjustments as shown on the next page to account for the differences. After all other factors are considered the adjustments show a -1% to +13% impact due to the adjacency of the solar farm. The best indicator is 1250 Cason, which shows a 3% impact. A 3% impact is within the normal static of real estate transactions and therefore not considered indicative of a positive impact on the property, but it strongly supports an indication of no negative impact.

Adjoin	ing Reside	ential Sales Afte	r Solar F	arm Approve	d							
Parcel	Solar	Address	Acres	Date Sold	Sales Price	Built	GBA	\$/GBA	BR/BA	Park	Style	Other
	Adjoins	250 Claiborne	0.96	1/3/2019	\$120,000	2000	2,016	\$59.52	3/2	Drive	Manuf	
	Not	1250 Cason	1.40	4/18/2018	\$95,000	1994	1,500	\$63.33	3/2	2-Det	Manuf	Carport
	Not	410 Reeves	1.02	11/27/2018	\$80,000	2000	1,456	\$54.95	3/2	Drive	Manuf	
	Not	315 N Fork	1.09	5/4/2019	\$107,000	1992	1,792	\$59.71	3/2	Drive	Manuf	

Adjustm	ients										Avg	
Solar	Address	Time	Site	YB	GLA	BR/BA	Park	Other	Total	% Diff	% Diff	Distance
Adjoins	250 Claiborne								\$120,000			373
Not	1250 Cason	\$2,081		\$2,850	\$26,144		-\$5,000	-\$5,000	\$116,075	3%		
Not	410 Reeves	\$249		\$0	\$24,615				\$104,865	13%		
Not	315 N Fork	-\$1,091		\$4,280	\$10,700				\$120,889	-1%		
											E0/	

I also looked at three other home sales on this street as shown below. These are stick-built homes and show a higher price range.

Adjoining Residential Sales After Solar Farm Approved												
Parcel	Solar	Address	Acres	Date Sold	Sales Price	Built	GBA	\$/GBA	BR/BA	Park	Style	Other
	Adjoins	300 Claiborne	1.08	9/20/2018	\$212,720	2003	1,568	\$135.66	3/3	2-Car	Ranch	Brick
	Not	460 Claiborne	0.31	1/3/2019	\$229,000	2007	1,446	\$158.37	3/2	2-Car	Ranch	Brick
	Not	2160 Sherman	1.46	6/1/2019	\$265,000	2005	1,735	\$152.74	3/3	2-Car	Ranch	Brick
	Not	215 Lexington	1.00	7/27/2018	\$231,200	2000	1,590	\$145.41	5/4	2-Car	Ranch	Brick

Adjustm	ients										Avg	
Solar	Address	Time	Site	YB	GLA	BR/BA	Park	Other	Total	% Diff	% Diff	Distance
Adjoins	300 Claiborne								\$213,000			488
Not	460 Claiborne	-\$2,026		-\$4,580	\$15,457	\$5,000			\$242,850	-14%		
Not	2160 Sherman	-\$5,672		-\$2,650	-\$20,406				\$236,272	-11%		
Not	215 Lexington	\$1,072		\$3,468	-\$2,559	-\$5,000			\$228,180	-7%		
											-11%	

This set of matched pairs shows a minor negative impact for this property. I was unable to confirm the sales price or conditions of this sale. The best indication of value is based on 215 Lexington, which required the least adjusting and supports a -7% impact.

Adjoin	ing Reside	ential Sales Afte	r Solar Fa	arm Approve	ed							
Parcel	Solar	Address	Acres	Date Sold	Sales Price	Built	GBA	\$/GBA	BR/BA	Park	Style	Other
	Adjoins	350 Claiborne	1.00	7/20/2018	\$245,000	2002	1,688	\$145.14	3/3	2-Car	Ranch	Brick
	Not	460 Claiborne	0.31	1/3/2019	\$229,000	2007	1,446	\$158.37	3/2	2-Car	Ranch	Brick
	Not	2160 Sherman	1.46	6/1/2019	\$265,000	2005	1,735	\$152.74	3/3	2-Car	R/FBsmt	Brick
	Not	215 Levington	1.00	7/27/2018	\$231.200	2000	1 500	\$145.41	5/4	2-Car	Panch	Brick

Adjustm	ents										Avg	
Solar	Address	Time	Site	YB	GLA	BR/BA	Park	Other	Total	% Diff	% Diff	Distance
Adjoins	350 Claiborne								\$245,000			720
Not	460 Claiborne	-\$3,223		-\$5,725	\$30,660	\$5,000			\$255,712	-4%		
Not	2160 Sherman	-\$7,057		-\$3,975	-\$5,743				\$248,225	-1%		
Not	215 Lexington	-\$136		\$2,312	\$11,400	-\$5,000			\$239,776	2%		
											-1%	

The following photograph shows the light landscaping buffer and the distant view of panels that was included as part of the marketing package for this property. The panels are visible somewhat on the left and somewhat through the trees in the center of the photograph. The first photograph is from the home, with the second photograph showing the view near the rear of the lot.





This set of matched pairs shows a no negative impact for this property. The range of adjusted impacts is -4% to +2%. The best indication is -1%, which as described above is within the typical market static and supports no impact on adjoining property value.

Adioining	Residential	Sales After	Solar	Farm /	Annroved

Parcel	Solar	Address	Acres	Date Sold	Sales Price	Built	GBA	\$/GBA	BR/BA	Park	Style	Other
	Adjoins	370 Claiborne	1.06	8/22/2019	\$273,000	2005	1,570	\$173.89	4/3	2-Car	2-Story	Brick
	Not	2160 Sherman	1.46	6/1/2019	\$265,000	2005	1,735	\$152.74	3/3	2-Car	R/FBsmt	Brick
	Not	2290 Dry	1.53	5/2/2019	\$239,400	1988	1,400	\$171.00	3/2.5	2-Car	R/FBsmt	Brick
	Not	125 Lexington	1.20	4/17/2018	\$240,000	2001	1,569	\$152.96	3/3	2-Car	Split	Brick

Adjustm	ients										Avg	
Solar	Address	Time	Site	YB	GLA	BR/BA	Park	Other	Total	% Diff	% Diff	Distance
Adjoins	370 Claiborne								\$273,000			930
Not	2160 Sherman	\$1,831		\$0	-\$20,161				\$246,670	10%		
Not	2290 Dry	\$2,260		\$20,349	\$23,256	\$2,500			\$287,765	-5%		
Not	125 Lexington	\$9,951		\$4,800					\$254,751	7%		
											4%	

This set of matched pairs shows a general positive impact for this property. The range of adjusted impacts is -5% to +10%. The best indication is +7%. I typically consider measurements of +/-5% to be within the typical variation in real estate transactions. This indication is higher than that and suggests a positive relationship.

The photograph from the listing shows panels visible between the home and the trampoline shown in the picture.



Adjoining	Adjoining Residential Sales After Solar Farm Approved											
Solar	Address	Acres	Date Sold	Sales Price	Built	GBA	\$/GBA	BR/BA	Park	Style	Other	
Adjoins	330 Claiborne	1.00	12/10/2019	\$282,500	2003	1,768	\$159.79	3/3	2-Car	Ranch	Brick/pool	
Not	895 Osborne	1.70	9/16/2019	\$249,900	2002	1,705	\$146.57	3/2	2-Car	Ranch	Brick/pool	
Not	2160 Sherman	1.46	6/1/2019	\$265,000	2005	1,735	\$152.74	3/3	2-Car	R/FBsmt	Brick	
Not	215 Lexington	1.00	7/27/2018	\$231,200	2000	1.590	\$145.41	5/4	2-Car	Ranch	Brick	

											Avg	
Solar	Address	Time	Site	YB	GLA	BR/BA	Park	Other	Total	% Diff	% Diff	Distance
Adjoins	330 Claiborne								\$282,500			665
Not	895 Osborne	\$1,790		\$1,250	\$7,387	\$5,000		\$0	\$265,327	6%		
Not	2160 Sherman	\$4,288		-\$2,650	\$4,032			\$20,000	\$290,670	-3%		
Not	215 Lexington	\$9,761		\$3,468	\$20,706	-\$5,000		\$20,000	\$280,135	1%		
											1%	

This set of matched pairs shows a general positive impact for this property. The range of adjusted impacts is -3% to +6%. The best indication is +6%. I typically consider measurements of +/-5% to be within the typical variation in real estate transactions. This indication is higher than that and suggests a positive relationship. The landscaping buffer on these is considered light with a fair visibility of the panels from most of these comparables and only thin landscaping buffers separating the homes from the solar panels.

The five matched pairs considered in this analysis includes two that show no impact on value, one that shows a negative impact on value, and two that show a positive impact. The negative indication supported by one matched pair is -7% and the positive impacts are +6% and +7%. The two neutral indications show impacts of -1% and +3%. The average indicated impact is +0% when all five of these indicators are blended.

Furthermore, the comments of the local real estate broker strongly support the data that shows no negative impact on value due to the proximity to the solar farm. This is further supported by the national data that is shown on the following pages.

2. Matched Pair - Mulberry, Selmer, TN



This 16 MW solar farm was built in 2014 on 208.89 acres with the closest home being 480 feet.

This solar farm adjoins two subdivisions with Central Hills having a mix of existing and new construction homes. Lots in this development have been marketed for \$15,000 each with discounts offered for multiple lots being used for a single home site. I spoke with the agent with Rhonda Wheeler and Becky Hearnsberger with United County Farm & Home Realty who noted that they have seen no impact on lot or home sales due to the solar farm in this community.

I have included a map below as well as data on recent sales activity on lots that adjoin the solar farm or are near the solar farm in this subdivision both before and after the announced plan for this solar farm facility. I note that using the same method I used to breakdown the adjoining uses at the subject property I show that the predominant adjoining uses are residential and agricultural, which is consistent with the location of most solar farms.

Adjoining Use Breakdown

	Acreage	Parcels
Commercial	3.40%	0.034
Residential	12.84%	79.31%
Agri/Res	10.39%	3.45%
Agricultural	73.37%	13.79%
Total	100.00%	100.00%

I have run a number of direct matched comparisons on the sales adjoining this solar farm as shown below. These direct matched pairs include some of those shown above as well as additional more recent sales in this community. In each of these I have compared the one sale adjoining the solar farm to multiple similar homes nearby that do not adjoin a solar farm to look for any potential impact from the solar farm.

Parcel	Solar	Address	Acres	Date Sold	Sales Price	Built	GBA	\$/GBA	BR/BA	Park	Style	Other
3	Adjoins	491 Dusty	6.86	10/28/2016	\$176,000	2009	1,801	\$97.72	3/2	2-Gar	Ranch	
	Not	820 Lake Trail	1.00	6/8/2018	\$168,000	2013	1,869	\$89.89	4/2	2-Gar	Ranch	
	Not	262 Country	1.00	1/17/2018	\$145,000	2000	1,860	\$77.96	3/2	2-Gar	Ranch	
	Not	35 April	1.15	8/16/2016	\$185,000	2016	1,980	\$93.43	3/2	2-Gar	Ranch	

			Adjoining Sales Adjusted								
Parcel	Solar	Address	Time	Site	YB	GLA	Park	Other	Total	% Diff	Distance
3	Adjoins	491 Dusty							\$176,000		480
	Not	820 Lake Trail	-\$8,324	\$12,000	-\$3,360	-\$4,890			\$163,426	7%	
	Not	262 Country	-\$5,450	\$12,000	\$6,525	-\$3,680			\$154,396	12%	
	Not	35 April	\$1,138	\$12,000	-\$6,475	-\$13,380			\$178,283	-1%	
									Average	6%	

The best matched pair is 35 April Loop, which required the least adjustment and indicates a -1% increase in value due to the solar farm adjacency.

Adjoining Residential Sales After Solar Farm Built

Parcel	Solar	Address	Acres	Date Sold	Sales Price	Built	GBA	\$/GBA	BR/BA	Park	Style	Other
12	Adjoins	57 Cooper	1.20	2/26/2019	\$163,000	2011	1,586	\$102.77	3/2	2-Gar	1.5 Story	Pool
	Not	191 Amelia	1.00	8/3/2018	\$132,000	2005	1,534	\$86.05	3/2	Drive	Ranch	
	Not	75 April	0.85	3/17/2017	\$134,000	2012	1,588	\$84.38	3/2	2-Crprt	Ranch	
	Not	345 Woodland	1.15	12/29/2016	\$131,000	2002	1,410	\$92.91	3/2	1-Gar	Ranch	

Adjoining Sales Adjusted												
Parcel	Solar	Address	Sales Price	Time	Site	YB	GLA	Park	Other	Total	% Diff	Distance
12	Adjoins	57 Cooper	\$163,000							\$163,000		685
	Not	191 Amelia	\$132,000	\$2,303		\$3,960	\$2,685	\$10,000	\$5,000	\$155,947	4%	
	Not	75 April	\$134,000	\$8,029	\$4,000	-\$670	-\$135	\$5,000	\$5,000	\$155,224	5%	
	Not	345 Woodland	\$131,000	\$8,710		\$5,895	\$9,811		\$5,000	\$160,416	2%	
										Average	4%	

The best matched pair is 191 Amelia, which was most similar in time frame of sale and indicates a +4% increase in value due to the solar farm adjacency.

Adjoin	ing Resid	dential Sales	s After Solar	Farm Built	ŧ							
Parcel	Solar	Address	Acres	Date Sold	Sales Price	Built	GBA :	\$/GBA	BR/BA	Park	Style	e Other
15	Adjoins	297 Count	ry 1.00	9/30/2016	\$150,000	2002	1,596	\$93.98	3/2	4-Gar	Ranc	h
	Not	185 Dusty	y 1.85	8/17/2015	\$126,040	2009	1,463	\$86.15	3/2	2-Gar	Ranc	h
	Not	53 Glen	1.13	3/9/2017	\$126,000	1999	1,475	\$85.42	3/2	2-Gar	Ranc	h Brick
				Adjoining S	ales Adjusted	1						
Parcel	Solar	Address	Sales Price	Time	Site YB	GLA	Parl	k Otl	her To	tal	% Diff	Distance
15	Adjoins	297 Country	\$150,000						\$150	0,000		650
	Not	185 Dusty	\$126,040	\$4,355	-\$4,41	1 \$9,167	7 \$10,0	00	\$145	5,150	3%	
	Not	53 Glen	\$126,000	-\$1,699	\$1,89	3 \$8,269	\$10,0	00	\$144	1,460	4%	
									Ave	rage	3%	

The best matched pair is 53 Glen, which was most similar in time frame of sale and required less adjustment. It indicates a +4% increase in value due to the solar farm adjacency.

The average indicated impact from these three sets of matched pairs is +4%, which suggests a mild positive relationship due to adjacency to the solar farm. The landscaping buffer for this project is mostly natural tree growth that was retained as part of the development but much of the trees separating the panels from homes are actually on the lots for the homes themselves. I therefore consider the landscaping buffer to be thin to moderate for these adjoining homes.

I have also looked at several lot sales in this subdivision as shown below.

These are all lots within the same community and the highest prices paid are for lots one parcel off from the existing solar farm. These prices are fairly inconsistent, though they do suggest about a \$3,000 loss in the lots adjoining the solar farm. This is an atypical finding and additional details suggest there is more going on in these sales than the data crunching shows. First of all Parcel 4 was purchased by the owner of the adjoining home and therefore an atypical buyer seeking to expand a lot and the site is not being purchased for home development. Moreover, using the SiteToDoBusiness demographic tools, I found that the 1-mile radius around this development is expecting a total population increase over the next 5 years of 3 people. This lack of growing demand for lots is largely explained in that context. Furthermore, the fact that finished home sales as shown above are showing no sign of a negative impact on property value makes this data unreliable and inconsistent with the data shown in sales to an end user. I therefore place little weight on this outlier data.

						4/18/2019		4/18/2019
Parcel	Solar	Address	Acres	Date Sold	Sales Price	Adj for Time	\$/AC	Adj for Time
4	Adjoins	Shelter	2.05	10/25/2017	\$16,000	\$16,728	\$7,805	\$8,160
10	Adjoins	Carter	1.70	8/2/2018	\$14,000	\$14,306	\$8,235	\$8,415
11	Adjoins	Cooper	1.28	9/17/2018	\$12,000	\$12,215	\$9,375	\$9,543
	Not	75 Dusty	1.67	4/18/2019	\$20,000	\$20,000	\$11,976	\$11,976
	Not	Lake Trl	1.47	11/7/2018	\$13,000	\$13,177	\$8,844	\$8,964
	Not	Lake Trl	1.67	4/18/2019	\$20,000	\$20,000	\$11,976	\$11,976
		Adjoins	Per Acre	Not Adjoins	Per Acre	% DIF/Lot	% DIF/AC	
	Average	\$14,416	\$8,706	\$17,726	\$10,972	19%	21%	
	Median	\$14,306	\$8,415	\$20,000	\$11,976	28%	30%	
	High	\$16,728	\$9,543	\$20,000	\$11,976	16%	20%	
	Low	\$12,215	\$8,160	\$13,177	\$8,964	7%	9%	

3. Matched Pair - Grand Ridge Solar, Streator, IL



This solar farm has a 20 MW output and is located on a 160-acre tract. The project was built in 2012.

I have considered the recent sale of Parcel 13 shown above, which sold in October 2016 after the solar farm was built. I have compared that sale to a number of nearby residential sales not in proximity to the solar farm as shown below. Parcel 13 is 480 feet from the closest solar panel. The landscaping buffer is considered light.

Adjoining Residential Sales After Solar Farm Completed											
#	TAX ID	Acres	Date Sold	Sales Price	Built	GBA	\$/GBA				
13	34-21-237-000	2	Oct-16	\$186,000	1997	2,328	\$79.90				
Not Adjoining Resident	ial Sales After So	olar Farm C	ompleted								
#	TAX ID	Acres	Date Sold	Sales Price	Built	GBA	\$/GBA				
712 Columbus Rd	32-39-134-005	1.26	Jun-16	\$166,000	1950	2,100	\$79.05				
504 N 2782 Rd	18-13-115-000	2.68	Oct-12	\$154,000	1980	2,800	\$55.00				
7720 S Dwight Rd	11-09-300-004	1.14	Nov-16	\$191,000	1919	2,772	\$68.90				
701 N 2050th Rd	26-20-105-000	1.97	Aug-13	\$200,000	2000	2,200	\$90.91				
9955 E 1600th St	04-13-200-007	1.98	May-13	\$181.858	1991	2.600	\$69.95				

			Adjustments	;
TAX ID	Date Sold	Time	Total	\$/Sf
34-21-237-000	Oct-16		\$186,000	\$79.90
32-39-134-005	Jun-16		\$166,000	\$79.05
18-13-115-000	Oct-12	\$12,320	\$166,320	\$59.40
11-09-300-004	Nov-16		\$191,000	\$68.90
26-20-105-000	Aug-13	\$12,000	\$212,000	\$96.36
04-13-200-007	May-13	\$10,911	\$192,769	\$74.14

	Adjoins S	olar Farm	Not Adjoin Sc	olar Farm
	Average	Median	Average	Median
Sales Price/SF	\$79.90	\$79.90	\$75.57	\$74.14
GBA	2.328	2.328	2,494	2,600

Based on the matched pairs I find no indication of negative impact due to proximity to the solar farm.

The most similar comparable is the home on Columbus that sold for \$79.05 per square foot. This is higher than the median rate for all of the comparables. Applying that price per square foot to the subject property square footage indicates a value of \$184,000.

There is minimal landscaping separating this solar farm from nearby properties and is therefore considered light.

4. Matched Pair - Portage Solar, Portage, IN



This solar farm has a 2 MW output and is located on a portion of a 56-acre tract. The project was built in 2012.

I have considered the recent sale of Parcels 5 and 12. Parcel 5 is an undeveloped tract, while Parcel 12 is a residential home. I have compared each to a set of comparable sales to determine if there was any impact due to the adjoining solar farm. This home is 1,320 feet from the closest solar panel. The landscaping buffer is considered light.

Adjoining Residential Sal	les After Solar Farm Compl	eted					
#	TAX ID	Acres	Date Sold	Sales Price	Built	GBA	\$/GBA
12	64-06-19-326-007.000-015	1.00	Sep-13	\$149,800	1964	1,776	\$84.35
Nearby Residential Sales	After Solar Farm Completed	1					
#	TAX ID	Acres	Date Sold	Sales Price	Built	GBA	\$/GBA
2501 Architect Dr	64-04-32-202-004.000-021	1.31	Nov-15	\$191,500	1959	2,064	\$92.78
336 E 1050 N	64-07-09-326-003.000-005	1.07	Jan-13	\$155,000	1980	1,908	\$81.24
2572 Pryor Rd	64-05-14-204-006.000-016	1.00	Jan-16	\$216,000	1960	2,348	\$91.99
Adjoining Land Sales After	er Solar Farm Completed						
#	TAX ID	Acres	Date Sold	Sales Price	\$/AC		
5	64-06-19-200-003.000-015	18.70	Feb-14	\$149,600	\$8,000		
Nearby Land Sales After S	Solar Farm Completed						
#	TAX ID	Acres	Date Sold	Sales Price	\$/AC		
	64-07-22-401-001.000-005	74.35	Jun-17	\$520,450	\$7,000		
	64-15-08-200-010.000-001	15.02	Jan-17	\$115,000	\$7,658		

Residential Sale Adjustment Chart

TAX ID	Date Sold	Time	Total	\$/Sf
64-06-19-326-007.000-015	Sep-13	\$8,988	\$158,788	\$89.41
64-04-32-202-004.000-021	Nov-15	\$3,830	\$195,330	\$94.64
64-07-09-326-003.000-005	Jan-13	\$9,300	\$164,300	\$86.11
64-05-14-204-006.000-016	Jan-16		\$216,000	\$91.99

2% adjustment/year Adjusted to 2017

	Adjoins Solar Fa	arm	Not Adjoin Solar F	'arm
	Average	Median	Average	Median
Sales Price/SF	\$89.41	\$89.41	\$90.91	\$91.99
GBA	1,776	1,776	2,107	2,064

After adjusting the price per square foot is 2.88% less for the home adjoining the solar farm versus those not adjoining the solar farm. This is within the typical range of variation to be anticipated in any real estate transaction and indicates no impact on property value.

Applying the price per square foot for the 336 E 1050 N sale, which is the most similar to the Parcel 12 sale, the adjusted price at \$81.24 per square foot applied to the Parcel 12 square footage yields a value of \$144,282.

The landscaping separating this solar farm from the homes is considered light.

Land Sale Adjustment Chart

TAX ID	Date Sold	Time	Total	\$/Acre
64-06-19-200-003.000-015	Feb-14	\$8,976	\$158,576	\$8,480
64-07-22-401-001.000-005	Jun-17		\$520,450	\$7,000
64-15-08-200-010.000-001	Jan-17		\$115,000	\$7,658

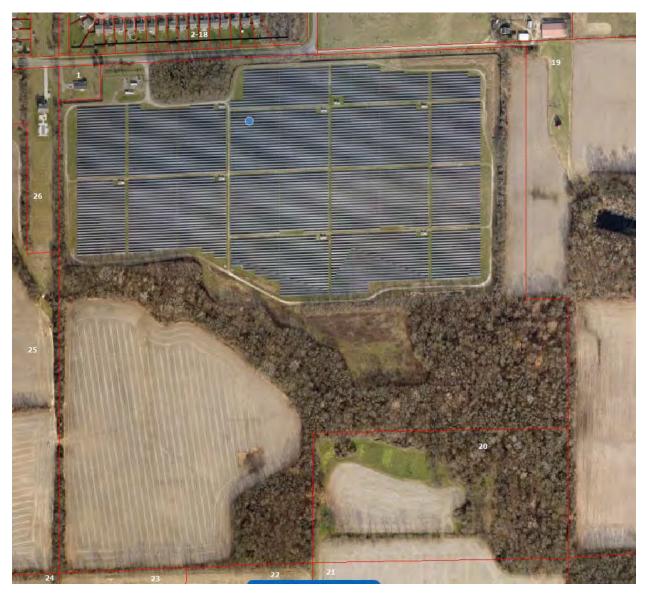
2% adjustment/year Adjusted to 2017

	Adjoins Solar Fa	arm	Not Adjoin Solar Farm				
	Average	Median	Average	Median			
Sales Price/Ac	\$8,480	\$8,480	\$7,329	\$7,329			
Acres	18.70	18.70	44.68	44.68			

After adjusting the price per acre is higher for the property adjoining the solar farm, but the average and median size considered is higher which suggests a slight discount. This set of matched pair supports no indication of negative impact due to the adjoining solar farm.

Alternatively, adjusting the 2017 sales back to 2014 I derive an indicated price per acre for the comparables at \$6,580 per acre to \$7,198 per acre, which I compare to the unadjusted subject property sale at \$8,000 per acre.

5. Matched Pair - Dominion Indy III, Indianapolis, IN



This solar farm has an 8.6 MW output and is located on a portion of a 134-acre tract. The project was built in 2013.

There are a number of homes on small lots located along the northern boundary and I have considered several sales of these homes. I have compared those homes to a set of nearby not adjoining home sales as shown below. The adjoining homes that sold range from 380 to 420 feet from the nearest solar panel, with an average of 400 feet. The landscaping buffer is considered light.

#	TAX ID	Acres	Date Sold	Sales Price	Built	GBA	\$/GBA
2	2013249	0.38	12/9/2015	\$140,000	2006	2,412	\$58.04
4	2013251	0.23	9/6/2017	\$160,000	2006	2,412	\$66.33
5	2013252	0.23	5/10/2017	\$147,000	2009	2,028	\$72.49
11	2013258	0.23	12/9/2015	\$131,750	2011	2,190	\$60.16
13	2013260	0.23	3/4/2015	\$127,000	2005	2,080	\$61.06
14	2013261	0.23	2/3/2014	\$120,000	2010	2,136	\$56.18
arby Not Adjoining l	Residential Sa	les After Sol	ar Farm Comp	leted			
#	TAX ID	Acres	Date Sold	Sales Price	Built	GBA	\$/GBA
5836 Sable Dr	2013277	0.14	Jun-16	\$141,000	2005	2,280	\$61.84
5928 Mosaic Pl	2013845	0.17	Sep-15	\$145,000	2007	2,280	\$63.60
5904 Minden Dr	2012912	0.16	May-16	\$130,000	2004	2,252	\$57.73
5910 Mosaic Pl	2000178	0.15	Aug-16	\$146,000	2009	2,360	\$61.86
			Nov-16	\$139,900	2005	2,492	\$56.14

				Adjus	tments	
TAX ID	Date Sold		Time	T	otal	\$/Sf
2013249	12/9/2015		\$5,600	<u> </u>	45,600	\$60.36
2013251	9/6/2017			\$16	50,000	\$66.33
2013252	5/10/2017			\$14	17,000	\$72.49
2013258	12/9/2015		\$5,270	\$13	37,020	\$62.57
2013260	3/4/2015		\$5,080	\$13	32,080	\$63.50
2013261	2/3/2014		\$7,200	\$12	27,200	\$59.55
2013277	6/1/2016		\$2,820	\$14	13,820	\$63.08
2013845	9/1/2015	7	\$5,800	\$15	50,800	\$66.14
2012912	5/1/2016		\$2,600	\$13	32,600	\$58.88
2000178	8/1/2016		\$2,920	\$14	18,920	\$63.10
2012866	11/1/2016		\$2,798	\$14	12,698	\$57.26

2% adjustment/year Adjusted to 2017

	Adjoins S	olar Farm	Not Adjoin Solar Farm				
	Average	Median	Average	Median			
Sales Price/SF	\$64.13	\$63.03	\$61.69	\$63.08			
GBA	2.210	2.163	2.333	2.280			

This set of homes provides very strong indication of no impact due to the adjacency to the solar farm and includes a large selection of homes both adjoining and not adjoining in the analysis.

The landscaping screen is considered light in relation to the homes considered above.

6. Matched Pair - Clarke County Solar, Clarke County, VA



This project is a 20 MW facility located on a 234-acre tract that was built in 2017.

I have considered a recent sale or Parcel 3. The home on this parcel is 1,230 feet from the closest panel as measured in the second map from Google Earth, which shows the solar farm under construction.

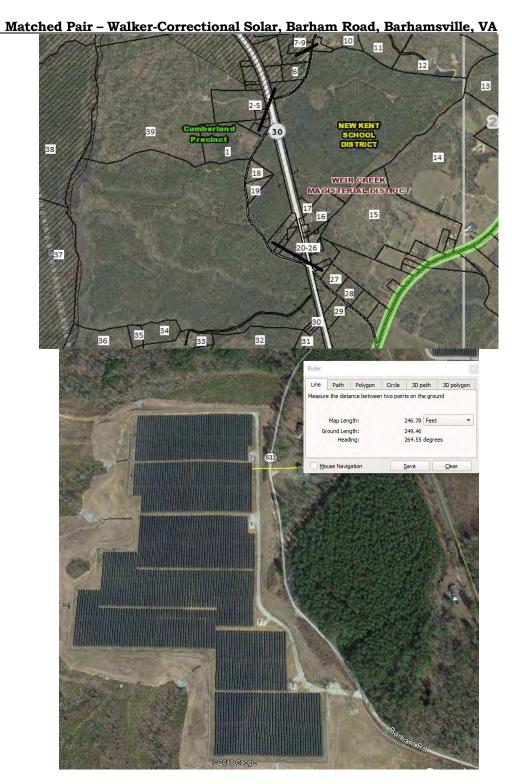
I've compared this home sale to a number of similar rural homes on similar parcels as shown below. I have used multiple sales that bracket the subject property in terms of sale date, year built, gross living area, bedrooms and bathrooms. Bracketing the parameters insures that all factors are well balanced out in the adjustments. The trend for these sales shows a positive value for the adjacency to the solar farm.

Adjoining	Residential	Sales	After	Solar	Farn	ı A	pp	rov	ed		
			_		_		_		_	_	

Solar	Address	Acres	Date Sold	Sales Price	Built	GBA	\$/GBA	BR/BA	Park	Style	Other
Adjoins	833 Nations Spr	5.13	1/9/2017	\$295,000	1979	1,392	\$211.93	3/2	Det Gar	Ranch	Unfin bsmt
Not	85 Ashby	5.09	9/11/2017	\$315,000	1982	2,333	\$135.02	3/2	2 Gar	Ranch	
Not	541 Old Kitchen	5.07	9/9/2018	\$370,000	1986	3,157	\$117.20	4/4	2 Gar	2 story	
Not	4174 Rockland	5.06	1/2/2017	\$300,000	1990	1,688	\$177.73	3/2	3 Gar	2 story	
Not	400 Sugar Hill	1.00	6/7/2018	\$180,000	1975	1,008	\$178.57	3/1	Drive	Ranch	

Adjoining Residential Sales After Solar Farm Approved					Adjoining	Sales Ad	justed						
Solar	Address	Acres	Date Sold	Sales Price	Time	Acres	YB	GLA	BR/BA	Park	Other	Total	% Diff
Adjoins	833 Nations Spr	5.13	1/9/2017	\$295,000								\$295,000	
Not	85 Ashby	5.09	9/11/2017	\$315,000	-\$6,300		-\$6,615	-\$38,116		-\$7,000	\$15,000	\$271,969	8%
Not	541 Old Kitchen	5.07	9/9/2018	\$370,000	-\$18,500		-\$18,130	-\$62,057		-\$7,000	\$15,000	\$279,313	5%
Not	4174 Rockland	5.06	1/2/2017	\$300,000			-\$23,100	-\$15,782		-\$12,000	\$15,000	\$264,118	10%
Not	400 Sugar Hill	1.00	6/7/2018	\$180,000	-\$9,000	\$43,000	\$5,040	\$20,571	\$10,000	\$3,000	\$15,000	\$267,611	9%
												Average	8%

The landscaping screen is primarily a newly planted buffer with a row of existing trees being maintained near the northern boundary and considered light.



This project was built in 2017 and located on 484.65 acres for a 20 MW with the closest home at 110 feet from the closest solar panel with an average distance of 500 feet.

I considered the recent sale identified on the map above as Parcel 19, which is directly across the street and based on the map shown on the following page is 250 feet from the closest panel. A limited buffering remains along the road with natural growth being encouraged, but currently the panels are visible from the road. Alex Uminski, SRA with MGMiller Valuations in Richmond VA

confirmed this sale with the buying and selling broker. The selling broker indicated that the solar farm was not a negative influence on this sale and in fact the buyer noticed the solar farm and then discovered the listing. The privacy being afforded by the solar farm was considered a benefit by the buyer. I used a matched pair analysis with a similar sale nearby as shown below and found no negative impact on the sales price. Property actually closed for more than the asking price. The landscaping buffer is considered light.

Solar	Address	Acres	Date Sold	Sales Price	Built	GBA	\$/GBA	BR/BA	Park	Style	Other
Adjoins	5241 Barham	2.65	10/18/2018	\$264,000	2007	1,660	\$159.04	3/2	Drive	Ranch	Modular
Not	17950 New Kent	5.00	9/5/2018	\$290,000	1987	1,756	\$165.15	3/2.5	3 Gar	Ranch	
Not	9252 Ordinary	4.00	6/13/2019	\$277,000	2001	1,610	\$172.05	3/2	1.5-Gar	Ranch	
Not	2416 W Miller	1.04	9/24/2018	\$299,000	1999	1,864	\$160.41	3/2.5	Gar	Ranch	

Adjoining Sales Adjusted

Solar	Address	Time	Ac/Loc	YB	GLA	BR/BA	Park	Other	Total	% Diff	Dist
Adjoins	5241 Barham								\$264,000		250
Not	17950 New Kent		-\$8,000	\$29,000	-\$4,756	-\$5,000	-\$20,000	-\$15,000	\$266,244	-1%	
Not	9252 Ordinary	-\$8,310	-\$8,000	\$8,310	\$2,581		-\$10,000	-\$15,000	\$246,581	7%	
Not	2416 W Miller		\$8,000	\$11,960	-\$9,817	-\$5,000	-\$10,000	-\$15,000	\$279,143	-6%	

Average Diff 0%

I also spoke with Patrick W. McCrerey of Virginia Estates who was marketing a property that sold at 5300 Barham Road adjoining the Walker-Correctional Solar Farm. He indicated that this property was unique with a home built in 1882 and heavily renovated and updated on 16.02 acres. The solar farm was through the woods and couldn't be seen by this property and it had no impact on marketing this property. This home sold on April 26, 2017 for \$358,000. I did not set up any matched pairs for this property as it was such a unique property that any such comparison would be difficult to rely on. The broker's comments do support the assertion that the adjoining solar farm had no impact on value. The home in this case was 510 feet from the closest panel.

8. Matched Pair - Sappony Solar, Sussex County, VA

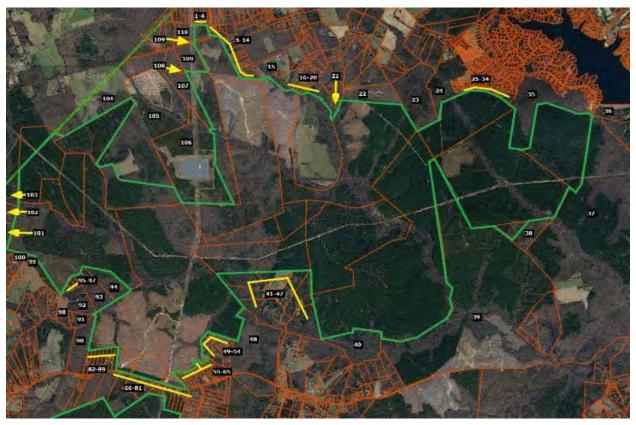


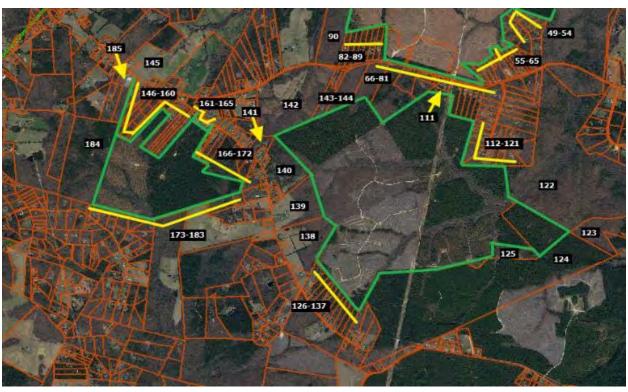
This project is a 30 MW facility located on a 322.68-acre tract that was built in the fourth quarter of 2017.

I have considered the 2018 sale of Parcel 17 as shown below. From Parcel 17 the retained trees and setbacks are a light to medium landscaped buffer.

Adjoin	ing Resid	dential	Sales Afte	r Solar F	arm Approv	ed							
Parcel	Solar	Ad	dress	Acres	Date Sold	Sales Price	Built	GBA	\$/GLA	BR/BA	Park	Style	Other
	Adjoins	12511	Palestine	6.00	7/31/2018	\$128,400	2013	1,900	\$67.58	4/2.5	Open	Manuf	•
	Not	15698	Concord	3.92	7/31/2018	\$150,000	2010	2,310	\$64.94	4/2	Open	Manuf	Fence
	Not	23209	9 Sussex	1.03	7/7/2020	\$95,000	2005	1,675	\$56.72	3/2	Det Crpt	Manuf	•
	Not	6494	Rocky Br	4.07	11/8/2018	\$100,000	2004	1,405	\$71.17	3/2	Open	Manuf	•
Adjoi	ning Sa	les Ad	justed								Av	g	
Tin	ie i	Site	YB	GLA	BR/BA	A Park	Othe	r 1	otal	% Diff	f % D	iff I	Distance
								\$1	28,400				1425
\$0)		\$2,250	-\$21,29	99 \$5,000)		\$1	35,951	-6%			
-\$5,€	560 \$1	3,000	\$3,800	\$10,20	9 \$5,000	\$1,500		\$1	22,849	4%			
-\$84	13		\$4,500	\$28,18	35			\$1	31,842	-3%			
											-19	%	

9. Matched Pair - Spotsylvania Solar, Paytes, VA





This solar farm is being built in four phases with the area known as Site C having completed construction in November 2020 after the entire project was approved in April 2019. Site C, also known as Pleinmont 1 Solar, includes 99.6 MW located in the southeast corner of the project and shown on the maps above with adjoining parcels 111 through 144. The entire Spotsylvania project totals 617 MW on 3500 acres out of a parent tract assemblage of 6,412 acres.

I have identified three adjoining home sales that occurred during construction and development of the site in 2020.

The first is located on the north side of Site A on Orange Plank Road. The second is located on Nottoway Lane just north of Caparthin Road on the south side of Site A and east of Site C. The third is located on Post Oak Road for a home that backs up to Site C that sold in September 2020 near the completion of construction for Site C.

Spotsylvania Solar Farm

Solar	Address	Acres	Date Sold	Sales Price	Built	GBA	\$/GBA	BR/BA	Park	Style	Other
Adjoins	12901 Orng Plnk	5.20	8/27/2020	\$319,900	1984	1,714	\$186.64	3/2	Drive	1.5	Un Bsmt
Not	8353 Gold Dale	3.00	1/27/2021	\$415,000	2004	2,064	\$201.07	3/2	3 Gar	Ranch	
Not	6488 Southfork	7.26	9/9/2020	\$375,000	2017	1,680	\$223.21	3/2	2 Gar	1.5	Barn/Patio
Not	12717 Flintlock	0.47	12/2/2020	\$290,000	1990	1,592	\$182.16	3/2.5	Det Gar	Ranch	

Adjoining Sales A	djusted									
Address	Time	Ac/Loc	YB	GLA	BR/BA	Park	Other	Total	% Diff	Dist
12901 Orng Plnk								\$319,900		1270
8353 Gold Dale	-\$5,219	\$20,000	-\$41,500	-\$56,298		-\$20,000		\$311,983	2%	
6488 Southfork	-\$401	-\$20,000	-\$61,875	\$6,071		-\$15,000		\$283,796	11%	
12717 Flintlock	-\$2,312	\$40,000	-\$8,700	\$17,779	-\$5,000	-\$5,000		\$326,767	-2%	

I contacted Keith Snider to confirm this sale. This is considered to have a medium landscaping screen.

Solar	Address	Acres	Date Sold	Sales Price	Built	GBA	\$/GBA	BR/BA	Park	Style	Other
Adjoins	9641 Nottoway	11.00	5/12/2020	\$449,900	2004	3,186	\$141.21	4/2.5	Garage	2-Story	Un Bsmt
Not	26123 Lafayette	1.00	8/3/2020	\$390,000	2006	3,142	\$124.12	3/3.5	Gar/DtG	2-Story	
Not	11626 Forest	5.00	8/10/2020	\$489,900	2017	3,350	\$146.24	4/3.5	2 Gar	2-Story	
Not	10304 Pny Brnch	6.00	7/27/2020	\$485,000	1998	3,076	\$157.67	4/4	2Gar/Dt2	Ranch	Fn Bsmt
Adjoinin	ıg Sales Adjusteo	i									

Address	Time	Ac/Loc	YB	GLA	BR/BA	Park	Other	Total	% Diff	
9641 Nottoway								\$449,900		1950
26123 Lafayette	-\$2,661	\$45,000	-\$3,900	\$4,369	-\$10,000	-\$5,000		\$417,809	7%	
11626 Forest	-\$3,624		-\$31,844	-\$19,187		-\$5,000		\$430,246	4%	
10304 Pny Brnch	-\$3,030		\$14,550	\$13,875	-\$15,000	-\$15,000	-\$10,000	\$470,396	-5%	

Average Diff 2%

Average Diff

I contacted Annette Roberts with ReMax about this transaction. This is considered to have a medium landscaping screen.

Solar	Address	Acres	Date Sold	Sales Price	Built	GBA	\$/GBA	BR/BA	Park	Style	Other
Adjoins	13353 Post Oak	5.20	9/21/2020	\$300,000	1992	2,400	\$125.00	4/3	Drive	2-Story	Fn Bsmt
Not	9609 Logan Hgt	5.86	7/4/2019	\$330,000	2004	2,352	\$140.31	3/2	2Gar	2-Story	
Not	12810 Catharpian	6.18	1/30/2020	\$280,000	2008	2,240	\$125.00	4/2.5	Drive	2-Story B	smt/Nd Pnt
Not	10725 Rbrt Lee	5.01	10/26/2020	\$295,000	1995	2,166	\$136.20	4/3	Gar	2-Story	Fn Bsmt

Adjoining Sales Adjusted

Address	Time	Ac/Loc	YB	GLA	BR/BA	Park	Other	Total	% Diff	Dist
13353 Post Oak								\$300,000		1171
9609 Logan Hgt	\$12,070		-\$19,800	\$5,388		-\$15,000	\$15,000	\$327,658	-9%	
12810 Catharpian	\$5,408		-\$22,400	\$16,000	\$5,000		\$15,000	\$299,008	0%	
10725 Rbrt Lee	-\$849		-\$4,425	\$25,496		-\$10,000		\$305,222	-2%	

Average Diff -4%

I contacted Joy Pearson with CTI Real Estate about this transaction. This is considered to have a heavy landscaping screen.

All three of these homes are well set back from the solar panels at distances over 1,000 feet and are well screened from the project. All three show no indication of any impact on property value.

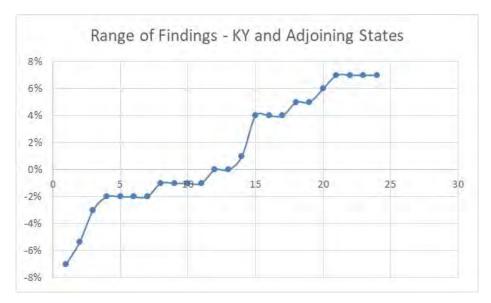
Conclusion

The solar farm matched pairs shown above have similar characteristics to each other in terms of population, but with several outliers showing solar farms in far more urban areas. The median income for the population within 1 mile of a solar farm among this subset of matched pairs is \$65,695 with a median housing unit value of \$186,463. Most of the comparables are under \$300,000 in the home price, with \$483,333 being the high end of the set, though I have matched pairs in other states over \$1,000,000 in price adjoining large solar farms. The predominate adjoining uses are residential and agricultural. These figures are in line with the larger set of solar farms that I have looked at with the predominant adjoining uses being residential and agricultural and similar to the solar farm breakdown shown for Kentucky and adjoining states as well as the proposed subject property.

Based on the similarity of adjoining uses and demographic data between these sites and the subject property, I consider it reasonable to compare these sites to the subject property.

Mat	ched Pair Sun	nmary					Adj. Us	es By	Acreage		1 mile	Radius (2	010-2020 Data)
						Topo						Med.	Avg. Housing	
	Name	City	State	Acres	$\mathbf{M}\mathbf{W}$	Shift	Res	Ag	Ag/Res	Com/Ind	Popl.	Income	Unit	Veg. Buffer
1	Crittenden	Crittenden	KY	34	2.70	40	22%	51%	27%	0%	1,419	\$60,198	\$178,643	Light
2	Mulberry	Selmer	TN	160	5.00	60	13%	73%	10%	3%	467	\$40,936	\$171,746	Lt to Med
3	Grand Ridge	Streator	IL	160	20.00	1	8%	87%	5%	0%	96	\$70,158	\$187,037	Light
4	Portage	Portage	IN	56	2.00	0	19%	81%	0%	0%	6,642	\$65,695	\$186,463	Light
5	Dominion	Indianapolis	IN	134	8.60	20	3%	97%	0%	0%	3,774	\$61,115	\$167,515	Light
6	Walker	Barhamsville	VA	485	20.00	N/A	12%	68%	20%	0%	203	\$80,773	\$320,076	Light
7	Clarke Cnty	White Post	VA	234	20.00	70	14%	39%	46%	1%	578	\$81,022	\$374,453	Light
8	Sappony	Stony Crk	VA	322	20.00	N/A	2%	98%	0%	0%	74	\$51,410	\$155,208	Medium
9	Spotyslvania	Paytes	VA	3,500	617.00	160	37%	52%	11%	0%	74	\$120,861	\$483,333	Med to Hvy
	Average			565	79.48	50	14%	72%	13%	0%	1,481	\$70,241	\$247,164	
	Median			160	20.00	40	13%	73%	10%	0%	467	\$65,695	\$186,463	
	High			3,500	617.00	160	37%	98%	46%	3%	6,642	\$120,861	\$483,333	
	Low			34	2.00	0	2%	39%	0%	0%	74	\$40,936	\$155,208	

On the following page is a summary of the matched pairs for all of the solar farms noted above. They show a pattern of results from -7% to +7%. As can be seen in the chart of those results below, most of the data points are between -2% and +5%. This variability is common with real estate and consistent with market "static." I therefore conclude that these results strongly support an indication of no impact on property value due to the adjacent solar farm.



Residential Dwelling Matched Pairs Adjoining Solar Farms

Residential Dwelli	ing Matched P	airs Adj	oining S	Solar Farm	ıs					
				Approx				Adj. Sale		Veg.
Pair Solar Farm	City	State	MW		Tax ID/Address	Date	Sale Price	Price	% Diff	Buffer
1 Crittenden	Crittenden	KY	2.7	373	250 Claiborne	Jan-19	\$120,000			Light
					315 N Fork	May-19	\$107,000	\$120,889	-1%	
2 Crittenden	Crittenden	KY	2.7	488	300 Claiborne	Sep-18	\$213,000			Light
					1795 Bay Valley	Dec-17	\$231,200	\$228,180	-7%	
3 Crittenden	Crittenden	KY	2.7	720	350 Claiborne	Jul-18	\$245,000			Light
					2160 Sherman	Jun-19	\$265,000	\$248,225	-1%	_
4 Crittenden	Crittenden	KY	2.7	930	370 Claiborne	Aug-19	\$273,000			Light
					125 Lexington	Apr-18	\$240,000		7%	0
5 Mulberry	Selmer	TN	5	400	0900A011	Jul-14	\$130,000	Ψ 2 3-1,731	7,0	Light
, ,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,					099CA043	Feb-15	\$148,900	\$136,988	-5%	0 -
6 Mulberry	Selmer	TN	5	400	099CA002	Jul-15	\$130,000	,-		Light
, ,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,					0990NA040	Mar-15	\$120,000	\$121,200	7%	0 -
7 Mulberry	Selmer	TN	5	480	491 Dusty	Oct-16	\$176,000	,		Light
, ,					35 April	Aug-16	\$185,000	\$178,283	-1%	0 -
8 Mulberry	Selmer	TN	5	650	297 Country	Sep-16	\$150,000	,		Medium
			-		53 Glen	Mar-17	\$126,000	\$144,460	4%	
9 Mulberry	Selmer	TN	5	685	57 Cooper	Feb-19	\$163,000	,		Medium
			-		191 Amelia	Aug-18	\$132,000	\$155,947	4%	
10 Grand Ridge	Streator	IL	20	480	1497 E 21st	Oct-16	\$186,000	,.		Light
10 Grana raago	Stroutor			.00	712 Columbus	Jun-16	\$166,000	\$184,000	1%	218111
11 Dominion	Indianapolis	IN	8.6	400	2013249 (Tax ID)	Dec-15	\$140,000	φ101,000	170	Light
11 Domminon	manapons	111	0.0	100	5723 Minden	Nov-16	\$139,900	\$132,700	5%	Digit
12 Dominion	Indianapolis	IN	8.6	400	2013251 (Tax ID)	Sep-17	\$160,000	\$102,700	0,0	Light
12 20111111011	marapono		0.0		5910 Mosaic	Aug-16	\$146,000	\$152,190	5%	215111
13 Dominion	Indianapolis	IN	8.6	400	2013252 (Tax ID)	May-17	\$147,000	\$10 2 ,130		Light
10 20111111011	marapono		0.0		5836 Sable	Jun-16	\$141,000	\$136,165		218111
14 Dominion	Indianapolis	IN	8.6	400	2013258 (Tax ID)	Dec-15	\$131,750	φ100,100	. 70	Light
1 i Dominion	manapons	111	0.0	100	5904 Minden	May-16	\$130,000	\$134,068	-2%	Digit
15 Dominion	Indianapolis	IN	8.6	400	2013260 (Tax ID)	Mar-15	\$127,000	φ101,000	270	Light
10 20111111011	marapono		0.0		5904 Minden	May-16	\$130,000	\$128,957	-2%	218111
16 Dominion	Indianapolis	IN	8.6	400	2013261 (Tax ID)	Feb-14	\$120,000	\$120,50.	2,0	Light
10 Dominion	manapons	111	0.0	100	5904 Minden	May-16	\$130,000	\$121,930	-2%	Digit
17 Clarke Cnty	White Post	VA	20	1230	833 Nations Spr	Jan-17	\$295,000	\$1 2 1,500	2,0	Light
1. Glarife Gifty		***		1200	6801 Middle	Dec-17	\$249,999	\$296,157	0%	218111
18 Walker	Barhamsville	VA	20	250	5241 Barham	Oct-18	\$264,000	\$250,10.	0,0	Light
10	Darmamovino	***		200	9252 Ordinary	Jun-19	\$277,000	\$246,581	7%	218111
19 Clarke Cnty	White Post	VA	20	1230	833 Nations Spr	Aug-19	\$385,000	φ2 10,001	. 70	Light
15 Charke Only	Willite 1 oot	***	20	1200	2393 Old Chapel	Aug-20	\$330,000	\$389,286	-1%	Digit
20 Sappony	Stony Creek	VA	20	1425	12511 Palestine	Jul-18	\$128,400	\$000,200	170	Medium
20 Supporty	otony creek	***	20	1120	6494 Rocky Branch	Nov-18	\$100,000	\$131,842	-3%	mearam
21 Spotsylvania	Paytes	VA	617	1270	12901 Orange Plnk	Aug-20	\$319,900	Ψ101,012	070	Medium
21 opotoyivama	Taytes	***	017	1270	12717 Flintlock	Dec-20	\$290,000	\$326,767	-2%	mearam
22 Spotsylvania	Paytes	VA	617	1950	9641 Nottoway	May-20	\$449,900	ψυΔυ,101	-4/0	Medium
22 Opoloyivailla	1 ayıcıs	V / 1	017	1 200	11626 Forest	Aug-20	\$489,900	\$430,246	4%	141C CH UIII
23 Spotsylvania	Paytes	VA	617	1171	13353 Post Oak	Sep-20	\$300,000	ψτου,∠40		Heavy
20 Opoloyivailla	1 ayıcıs	V / 1	017	11/1	12810 Catharpin	Jan-20	\$280,000	\$299,008	0%	incavy
					12010 Camarpin	0a11-20	Ψ200,000	Ψ4.22,000	0 /0	

	Avg.	
$\mathbf{M}\mathbf{W}$	Distance	
106.72	738	Average
8.60	480	Median
617.00	1,950	High
5.00	250	Low

I have further broken down these results based on the MWs, Landscaping, and distance from panel to show the following range of findings for these different categories.

This breakdown shows no homes between 100-200 homes. Solar farms up to 75 MW show homes between 201 and 500 feet with no impact on value. Most of the findings are for homes between 201 and 500 feet.

Light landscaping screens are showing no impact on value at any distances, though solar farms over 75.1 MW only show Medium and Heavy landscaping screens in the 3 examples identified.

MW Range 4.4 to 10									
Landscaping Distance	Light 100-200	Light 201-500	Light 500+	M edium 100-200	Medium 201-500	Medium 500+	Heavy 100-200	Heavy 201-500	Heavy 500+
#	0	11	2	0	0	2	0	0	0
Average	N/A	1%	N/A	N/A	N/A	4%	N/A	N/A	N/A
Median	N/A	-1%	N/A	N/A	N/A	4%	N/A	N/A	N/A
High	N/A	7%	N/A	N/A	N/A	4%	N/A	N/A	N/A
Low	N/A	-5%	N/A	N/A	N/A	4%	N/A	N/A	N/A
10.1 to 30									
Landscaping	Light	Light	Light	Medium	Medium	Medium	Heavy	Heavy	Heavy
Distance	100-200	201-500	500+	100-200	201-500	500+	100-200	201-500	500+
#	0	2	2	0	0	1	0	0	0
Average	N/A	4%	-1%	N/A	N/A	-3%	N/A	N/A	N/A
Median	N/A	4%	-1%	N/A	N/A	-3%	N/A	N/A	N/A
High	N/A	7%	0%	N/A	N/A	-3%	N/A	N/A	N/A
Low	N/A	1%	-1%	N/A	N/A	-3%	N/A	N/A	N/A
30.1 to 75									
Landscaping	Light	Light	Light	Medium	Medium	Medium	Heavy	Heavy	Heavy
Distance	100-200	201-500	500+	100-200	201-500	500+	100-200	201-500	500+
#	0	0	0	0	0	0	0	0	0
Average	N/A	1%	0%	N/A	N/A	0%	N/A	N/A	N/A
Median	N/A	1%	0%	N/A	N/A	0%	N/A	N/A	N/A
High	N/A	2%	2%	N/A	N/A	9%	N/A	N/A	N/A
Low	N/A	1%	-2%	N/A	N/A	-7%	N/A	N/A	N/A
75.1+									
Landscaping	Light	Light	Light	Medium	Medium	Medium	Heavy	Heavy	Heavy
Distance	100-200	201-500	500+	100-200	201-500	500+	100-200	201-500	500+
#	0	0	0	0	0	2	0	0	1
Average	N/A	N/A	N/A	N/A	N/A	1%	N/A	N/A	0%
Median	N/A	N/A	N/A	N/A	N/A	1%	N/A	N/A	0%
High	N/A	N/A	N/A	N/A	N/A	4%	N/A	N/A	0%
Low	N/A	N/A	N/A	N/A	N/A	-2%	N/A	N/A	0%

B. Southeastern USA Data - Over 5 MW

1. Matched Pair - AM Best Solar Farm, Goldsboro, NC

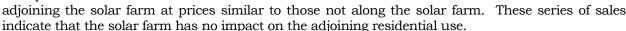
This 5 MW solar farm adjoins Spring Garden Subdivision which had new homes and lots available for new construction during the approval and construction of the solar farm. The recent home sales have ranged from \$200,000 to \$250,000. This subdivision sold out the last homes in late 2014.

The solar farm is clearly visible particularly along the north end of this street where there is only a thin line of trees separating the solar farm from the single-family homes.

Homes backing up to the solar farm are selling at the same price for the same floor plan as the homes that do not back up to the solar farm in this subdivision. According to the builder, the solar farm has been a complete non-factor. Not only do the sales show no difference in the price paid for the various homes adjoining the solar farm versus not adjoining the solar farm, but there are actually more recent sales along the solar farm than not. There is no impact on the sellout rate, or time to sell for the homes adjoining the solar farm.

I spoke with a number of owners who adjoin the solar farm and none of them expressed any concern over the solar farm impacting their property value.

The data presented on the following page shows multiple homes that have sold in 2013 and 2014



The homes that were marketed at Spring Garden are shown below.



The homes adjoining the solar farm are considered to have a light landscaping screen as it is a narrow row of existing pine trees supplemented with evergreen plantings.



Matched Pairs

djoining Sales	After Solar F	arm Comple	ted					
TAX ID	Owner	Acres	Date Sold	Sales Price	Built	GBA		•
3600195570		0.76	Sep-13	\$250,000	2013	3,292	\$75.94	2 Story
3600195361	Leak	1.49	Sep-13	\$260,000	2013	3,652	\$71.19	2 Story
3600199891	McBrayer	2.24	Jul-14	\$250,000	2014	3,292	\$75.94	2 Story
3600198632	Foresman	1.13	Aug-14	\$253,000	2014	3,400		2 Story
3600196656	Hinson	0.75	Dec-13	\$255,000	2013	3,453	\$73.85	2 Story
	Average	1.27		\$253,600	2013.4	3,418	\$74.27	
	Median	1.13		\$253,000	2013	3,400	\$74.41	
ljoining Sales	After Solar F	arm Announ	ced					
TAX ID	Owner	Acres	Date Sold	Sales Price	Built	GBA	\$/GBA	-
0	Feddersen	1.56	Feb-13	\$247,000	2012	3,427		Ranch
0	Gentry	1.42	Apr-13	\$245,000	2013	3,400	\$72.06	2 Story
	Average	1.49		\$246,000	2012.5	3,414	\$72.07	
	Median	1.49		\$246,000	2012.5	3,414	\$72.07	
ljoining Sales	Before Solar	Farm Annou	nced					
TAX ID	Owner	Acres	Date Sold	Sales Price	Built	GBA		•
3600183905	Carter	1.57	Dec-12	\$240,000	2012	3,347		1.5 Story
				#100 000	0010		ተ70 00	2 Story
3600193097	Kelly	1.61	Sep-12	\$198,000	2012	2,532		-
3600193097 3600194189	Kelly Hadwan	1.61 1.55	Sep-12 Nov-12	\$198,000	2012	2,532 3,433		1.5 Story
			-				\$69.91	-
	Hadwan	1.55	-	\$240,000	2012	3,433	\$69.91	-
3600194189	Hadwan Average Median	1.55 1.59 1.59	-	\$240,000 \$219,000	2012 2012	3,433 2,940	\$69.91 \$74.95	-
3600194189	Hadwan Average Median	1.55 1.59 1.59	-	\$240,000 \$219,000	2012 2012	3,433 2,940	\$69.91 \$74.95	1.5 Story
3600194189 earby Sales Aft	Hadwan Average Median er Solar Farm Owner	1.55 1.59 1.59	Nov-12	\$240,000 \$219,000 \$219,000	2012 2012 2012	3,433 2,940 2,940	\$69.91 \$74.95 \$74.95	1.5 Story Style
3600194189 earby Sales Aft TAX ID	Hadwan Average Median er Solar Farm Owner Barnes	1.55 1.59 1.59 1.69 1.60 Completed Acres	Nov-12 Date Sold	\$240,000 \$219,000 \$219,000 Sales Price	2012 2012 2012 Built	3,433 2,940 2,940 GBA	\$69.91 \$74.95 \$74.95	1.5 Story Style
3600194189 earby Sales Aft TAX ID 3600193710	Hadwan Average Median er Solar Farm Owner Barnes	1.55 1.59 1.59 1.60 1.60 1.70 1.70 1.70 1.70 1.70 1.70 1.70 1.7	Nov-12 Date Sold Oct-13	\$240,000 \$219,000 \$219,000 Sales Price \$248,000	2012 2012 2012 Built 2013	3,433 2,940 2,940 GBA 3,400	\$69.91 \$74.95 \$74.95 \$/GBA \$72.94	1.5 Story Style 2 Story
3600194189 earby Sales Aft TAX ID 3600193710 3601105180	Hadwan Average Median er Solar Farm Owner Barnes Nackley	1.55 1.59 1.59 1.60 1.12 0.95	Nov-12 Date Sold Oct-13 Dec-13	\$240,000 \$219,000 \$219,000 Sales Price \$248,000 \$253,000	2012 2012 2012 Built 2013 2013	3,433 2,940 2,940 GBA 3,400 3,400	\$69.91 \$74.95 \$74.95 \$/GBA \$72.94 \$74.41	1.5 Story Style 2 Story 2 Story
3600194189 earby Sales Aft TAX ID 3600193710 3601105180 3600192528	Hadwan Average Median er Solar Farm Owner Barnes Nackley Mattheis	1.55 1.59 1.59 1.60 1.12 0.95 1.12	Nov-12 Date Sold Oct-13 Dec-13 Oct-13	\$240,000 \$219,000 \$219,000 Sales Price \$248,000 \$253,000 \$238,000	2012 2012 2012 Built 2013 2013 2013	3,433 2,940 2,940 GBA 3,400 3,400 3,194	\$69.91 \$74.95 \$74.95 \$/GBA \$72.94 \$74.41 \$74.51	1.5 Story Style 2 Story 2 Story 2 Story
3600194189 earby Sales Aft TAX ID 3600193710 3601105180 3600192528 3600198928	Hadwan Average Median er Solar Farm Owner Barnes Nackley Mattheis Beckman	1.55 1.59 1.59 1.60 1.12 0.95 1.12 0.93	Nov-12 Date Sold Oct-13 Dec-13 Oct-13 Mar-14	\$240,000 \$219,000 \$219,000 Sales Price \$248,000 \$253,000 \$238,000 \$250,000	2012 2012 2012 Built 2013 2013 2013 2014	3,433 2,940 2,940 GBA 3,400 3,400 3,194 3,292	\$69.91 \$74.95 \$74.95 \$/GBA \$72.94 \$74.41 \$74.51 \$75.94	Style 2 Story 2 Story 2 Story 2 Story 2 Story
3600194189 earby Sales Aft TAX ID 3600193710 3601105180 3600192528 3600198928 3600196965	Hadwan Average Median er Solar Farm Owner Barnes Nackley Mattheis Beckman Hough Preskitt	1.55 1.59 1.59 1.60 1.12 0.95 1.12 0.93 0.81	Nov-12 Date Sold Oct-13 Dec-13 Oct-13 Mar-14 Jun-14	\$240,000 \$219,000 \$219,000 Sales Price \$248,000 \$253,000 \$238,000 \$250,000 \$224,000	2012 2012 2012 Built 2013 2013 2013 2014 2014	3,433 2,940 2,940 GBA 3,400 3,400 3,194 3,292 2,434	\$69.91 \$74.95 \$74.95 \$/GBA \$72.94 \$74.41 \$74.51 \$75.94 \$92.03	1.5 Story Style 2 Story 2 Story 2 Story 2 Story 2 Story 2 Story
3600194189 earby Sales Aft TAX ID 3600193710 3601105180 3600192528 3600198928 3600196965 3600193914	Hadwan Average Median er Solar Farm Owner Barnes Nackley Mattheis Beckman Hough Preskitt	1.55 1.59 1.59 1.60 1.12 0.95 1.12 0.93 0.81 0.67	Date Sold Oct-13 Dec-13 Oct-13 Mar-14 Jun-14	\$240,000 \$219,000 \$219,000 Sales Price \$248,000 \$253,000 \$238,000 \$250,000 \$224,000 \$242,000	2012 2012 2012 Built 2013 2013 2013 2014 2014 2014	3,433 2,940 2,940 GBA 3,400 3,194 3,292 2,434 2,825	\$69.91 \$74.95 \$74.95 \$/GBA \$72.94 \$74.41 \$74.51 \$75.94 \$92.03 \$85.66	Style 2 Story
earby Sales Aft TAX ID 3600193710 3601105180 3600192528 3600198928 3600196965 3600193914 3600194813	Hadwan Average Median er Solar Farm Owner Barnes Nackley Mattheis Beckman Hough Preskitt Bordner	1.55 1.59 1.59 1.60 1.12 0.95 1.12 0.93 0.81 0.67 0.91	Date Sold Oct-13 Dec-13 Oct-13 Mar-14 Jun-14 Jun-14 Apr-14	\$240,000 \$219,000 \$219,000 Sales Price \$248,000 \$253,000 \$238,000 \$250,000 \$224,000 \$242,000 \$258,000	2012 2012 2012 Built 2013 2013 2014 2014 2014 2014	3,433 2,940 2,940 GBA 3,400 3,400 3,194 3,292 2,434 2,825 3,511 3,453 3,189	\$69.91 \$74.95 \$74.95 \$/GBA \$72.94 \$74.41 \$75.94 \$92.03 \$85.66 \$73.48 \$73.85	Style 2 Story

Nearby Sales Before Solar Farm Announced

TAX ID	Owner	Acres	Date Sold	Sales Price	Built	GBA	\$/GBA Style
3600191437	Thomas	1.12	Sep-12	\$225,000	2012	3,276	\$68.68 2 Story
3600087968	Lilley	1.15	Jan-13	\$238,000	2012	3,421	\$69.57 1.5 Story
3600087654	Burke	1.26	Sep-12	\$240,000	2012	3,543	\$67.74 2 Story
3600088796	Hobbs	0.73	Sep-12	\$228,000	2012	3,254	\$70.07 2 Story
	Average	1.07		\$232,750	2012	3,374	\$69.01
	Median	1.14		\$233,000	2012	3,349	\$69.13

Matched Pair Summary

	Adjoins Solaı	Farm	Nearby Solar Farm			
	Average	Median	Average	Median		
Sales Price	\$253,600	\$253,000	\$246,000	\$249,000		
Year Built	2013	2013	2014	2014		
Size	3,418	3,400	3,189	3,346		
Price/SF	\$74.27	\$74.41	\$77.85	\$74.46		

Percentage Differences

Median Price	-2%
Median Size	-2%
Median Price/SF	0%

I note that 2308 Granville Drive sold again in November 2015 for \$267,500, or \$7,500 more than when it was purchased new from the builder two years earlier (Tax ID 3600195361, Owner: Leak). The neighborhood is clearly showing appreciation for homes adjoining the solar farm.

The Median Price is the best indicator to follow in any analysis as it avoids outlying samples that would otherwise skew the results. The median sizes and median prices are all consistent throughout the sales both before and after the solar farm whether you look at sites adjoining or nearby to the solar farm. The average size for the homes nearby the solar farm shows a smaller building size and a higher price per square foot. This reflects a common occurrence in real estate where the price per square foot goes up as the size goes down. So even comparing averages the indication is for no impact, but I rely on the median rates as the most reliable indication for any such analysis.

I have also considered four more recent resales of homes in this community as shown on the following page. These comparable sales adjoin the solar farm at distances ranging from 315 to 400 feet. The matched pairs show a range from -9% to +6%. The range of the average difference is -2% to +1% with an average of 0% and a median of +0.5%. These comparable sales support a finding of no impact on property value.

Parcel	Solar	Address	Acres	rm Approve	Sales Price	Built	GBA	\$/GRA	BR/BA	Park	Style	Other	Distance
- 4	Adjoins	103 Granville Pl	1.42	7/27/2018	\$265,000	2013	3,292	\$80.50	4/3.5	2-Car	2-Story	Other	385
	Not	2219 Granville	1.15	1/8/2018	\$260,000	2012	3,292	\$78.98	4/3.5	2-Car	2-Story		000
	Not	634 Friendly	0.96	7/31/2019	\$267,000	2012	3,053	\$87.45	4/4.5	2-Car	2-Story		
	Not	2403 Granville	0.69	4/23/2019	\$265,000	2013	2,816	\$94.11	5/3.5	2-Car	2-Story		
	NOU	2403 Granvine	0.09	4/23/2019	φ205,000	2017	2,010	ψ27.11	3/3.3	2-Cai	2-5t01y	A	
	Solar	444	T:	Cito	VD	CIA	DD/DA	Doul-	Other	T-4-1	0/ D:66	Avg % Diff	
	Adjoins	Address 103 Granville Pl	Time	Site	YB	GLA	BR/BA	Park	Other	Total \$265,000	% Diff	-2%	
	Not	2219 Granville	\$4,382		\$1,300	\$0				\$265,682	0%	-2/0	
	Not	634 Friendly	-\$8,303		-\$6,675		-\$10,000			\$258,744	2%		
	Not	2403 Granville	-\$6,029			\$31,356	-\$10,000			1	-9%		
	NOL	2403 Granvine	-\$0,029		-\$1,325	ф31,330				\$289,001	-970		
-	_	ential Sales Afte											
Parcel		Address	Acres		Sales Price	Built	GBA		BR/BA	Park	Style	Other	Distance
	Adjoins	104 Erin	2.24	6/19/2017	\$280,000	2014	3,549	\$78.90	5/3.5	2-Car	2-Story		315
	Not	2219 Granville	1.15	1/8/2018	\$260,000	2012	3,292	\$78.98	4/3.5	2-Car	2-Story		
	Not	634 Friendly	0.96	7/31/2019	\$267,000	2018	3,053	\$87.45	4/4.5	2-Car	2-Story		
	Not	2403 Granville	0.69	4/23/2019	\$265,000	2014	2,816	\$94.11	5/3.5	2-Car	2-Story		
												Avg	
	Solar	Address	Time	Site	YB	GLA	BR/BA	Park	Other	Total	% Diff	% Diff	
	Adjoins	104 Erin	Time	Site	1.0	GLA	DK/DA	Faik	Other	\$280,000	/0 DIII	0%	
	Not	2219 Granville	-\$4,448		\$2,600	\$16,238				\$274,390	2%	070	
	Not	634 Friendly	-\$17,370		-\$5,340	-	-\$10,000			\$268,992	4%		
	Not	2403 Granville	-\$17,370		-\$3,340 \$0	\$48,285	-φ10,000			\$298,256	-7%		
	NOU	2405 Granvine	-φ15,029		φО	ψτο,200				Ψ290,200	-1/0		
•	_	ential Sales Afte						4.004	/				
Parcel		Address	Acres	Date Sold									
	Adjoins	0010 0 '11	0.75			Built	GBA		BR/BA	Park	Style	Other	
		2312 Granville	0.75	5/1/2018	\$284,900	2013	3,453	\$82.51	5/3.5	2-Car	2-Story	Other	Distance 400
	Not	2219 Granville	1.15	5/1/2018 1/8/2018	\$284,900 \$260,000	2013 2012	3,453 3,292	\$82.51 \$78.98	5/3.5 4/3.5	2-Car 2-Car	2-Story 2-Story	Other	
	Not Not	2219 Granville 634 Friendly	1.15 0.96	5/1/2018 1/8/2018 7/31/2019	\$284,900 \$260,000 \$267,000	2013 2012 2018	3,453 3,292 3,053	\$82.51 \$78.98 \$87.45	5/3.5 4/3.5 4/4.5	2-Car 2-Car 2-Car	2-Story 2-Story 2-Story	Other	
	Not	2219 Granville	1.15	5/1/2018 1/8/2018	\$284,900 \$260,000	2013 2012	3,453 3,292	\$82.51 \$78.98	5/3.5 4/3.5	2-Car 2-Car	2-Story 2-Story	Other	
	Not Not	2219 Granville 634 Friendly	1.15 0.96	5/1/2018 1/8/2018 7/31/2019	\$284,900 \$260,000 \$267,000	2013 2012 2018	3,453 3,292 3,053	\$82.51 \$78.98 \$87.45	5/3.5 4/3.5 4/4.5	2-Car 2-Car 2-Car	2-Story 2-Story 2-Story	Avg	
	Not Not Not	2219 Granville 634 Friendly 2403 Granville Address	1.15 0.96	5/1/2018 1/8/2018 7/31/2019	\$284,900 \$260,000 \$267,000	2013 2012 2018	3,453 3,292 3,053	\$82.51 \$78.98 \$87.45	5/3.5 4/3.5 4/4.5	2-Car 2-Car 2-Car 2-Car	2-Story 2-Story 2-Story	Avg % Diff	
	Not Not Not Solar Adjoins	2219 Granville 634 Friendly 2403 Granville Address 2312 Granville	1.15 0.96 0.69 Time	5/1/2018 1/8/2018 7/31/2019 4/23/2019	\$284,900 \$260,000 \$267,000 \$265,000	2013 2012 2018 2014 GLA	3,453 3,292 3,053 2,816	\$82.51 \$78.98 \$87.45 \$94.11	5/3.5 4/3.5 4/4.5 5/3.5	2-Car 2-Car 2-Car 2-Car Total \$284,900	2-Story 2-Story 2-Story 2-Story	Avg	
	Not Not Not	2219 Granville 634 Friendly 2403 Granville Address	1.15 0.96 0.69	5/1/2018 1/8/2018 7/31/2019 4/23/2019	\$284,900 \$260,000 \$267,000 \$265,000	2013 2012 2018 2014	3,453 3,292 3,053 2,816	\$82.51 \$78.98 \$87.45 \$94.11	5/3.5 4/3.5 4/4.5 5/3.5	2-Car 2-Car 2-Car 2-Car	2-Story 2-Story 2-Story 2-Story	Avg % Diff	
	Not Not Not Solar Adjoins	2219 Granville 634 Friendly 2403 Granville Address 2312 Granville	1.15 0.96 0.69 Time	5/1/2018 1/8/2018 7/31/2019 4/23/2019	\$284,900 \$260,000 \$267,000 \$265,000	2013 2012 2018 2014 GLA \$10,173	3,453 3,292 3,053 2,816	\$82.51 \$78.98 \$87.45 \$94.11	5/3.5 4/3.5 4/4.5 5/3.5	2-Car 2-Car 2-Car 2-Car Total \$284,900	2-Story 2-Story 2-Story 2-Story	Avg % Diff	
	Not Not Not Solar Adjoins Not	2219 Granville 634 Friendly 2403 Granville Address 2312 Granville 2219 Granville	1.15 0.96 0.69 Time \$2,476	5/1/2018 1/8/2018 7/31/2019 4/23/2019	\$284,900 \$260,000 \$267,000 \$265,000 YB \$1,300	2013 2012 2018 2014 GLA \$10,173	3,453 3,292 3,053 2,816 BR/BA	\$82.51 \$78.98 \$87.45 \$94.11	5/3.5 4/3.5 4/4.5 5/3.5	2-Car 2-Car 2-Car 2-Car Total \$284,900 \$273,948	2-Story 2-Story 2-Story 2-Story % Diff 4%	Avg % Diff	
	Not Not Not Solar Adjoins Not Not	2219 Granville 634 Friendly 2403 Granville Address 2312 Granville 2219 Granville 634 Friendly	1.15 0.96 0.69 Time \$2,476 -\$10,260	5/1/2018 1/8/2018 7/31/2019 4/23/2019	\$284,900 \$260,000 \$267,000 \$265,000 YB \$1,300 -\$6,675	2013 2012 2018 2014 GLA \$10,173 \$27,986	3,453 3,292 3,053 2,816 BR/BA	\$82.51 \$78.98 \$87.45 \$94.11	5/3.5 4/3.5 4/4.5 5/3.5	2-Car 2-Car 2-Car 2-Car Total \$284,900 \$273,948 \$268,051	2-Story 2-Story 2-Story 2-Story % Diff 4% 6%	Avg % Diff	
-	Not Not Not Solar Adjoins Not Not Not	2219 Granville 634 Friendly 2403 Granville Address 2312 Granville 2219 Granville 634 Friendly	1.15 0.96 0.69 Time \$2,476 -\$10,260 -\$7,972	5/1/2018 1/8/2018 7/31/2019 4/23/2019 Site	\$284,900 \$260,000 \$267,000 \$265,000 YB \$1,300 -\$6,675 -\$1,325	2013 2012 2018 2014 GLA \$10,173 \$27,986 \$47,956	3,453 3,292 3,053 2,816 BR/BA	\$82.51 \$78.98 \$87.45 \$94.11 Park	5/3.5 4/3.5 4/4.5 5/3.5 Other	2-Car 2-Car 2-Car 2-Car 2-Car Total \$284,900 \$273,948 \$268,051 \$303,659	2-Story 2-Story 2-Story 2-Story % Diff 4% 6% -7%	Avg % Diff 1%	400
Adjoin Parcel	Not Not Not Solar Adjoins Not Not Not	2219 Granville 634 Friendly 2403 Granville Address 2312 Granville 2219 Granville 634 Friendly 2403 Granville ential Sales Afte Address	1.15 0.96 0.69 Time \$2,476 -\$10,260 -\$7,972	5/1/2018 1/8/2018 7/31/2019 4/23/2019 Site	\$284,900 \$260,000 \$267,000 \$265,000 YB \$1,300 -\$6,675 -\$1,325	2013 2012 2018 2014 GLA \$10,173 \$27,986 \$47,956	3,453 3,292 3,053 2,816 BR/BA -\$10,000	\$82.51 \$78.98 \$87.45 \$94.11 Park	5/3.5 4/3.5 4/4.5 5/3.5 Other	2-Car 2-Car 2-Car 2-Car 2-Car Total \$284,900 \$273,948 \$268,051 \$303,659	2-Story 2-Story 2-Story 2-Story % Diff 4% 6% -7%	Avg % Diff 1%	400 Distance
_	Not Not Not Solar Adjoins Not Not Not Solar Adjoins	2219 Granville 634 Friendly 2403 Granville Address 2312 Granville 2219 Granville 634 Friendly 2403 Granville ential Sales Afte Address 2310 Granville	1.15 0.96 0.69 Time \$2,476 -\$10,260 -\$7,972 r Solar Fa Acres 0.76	5/1/2018 1/8/2018 7/31/2019 4/23/2019 Site rm Approve Date Sold 5/14/2019	\$284,900 \$260,000 \$267,000 \$265,000 YB \$1,300 -\$6,675 -\$1,325 ed Sales Price \$280,000	2013 2012 2018 2014 GLA \$10,173 \$27,986 \$47,956 Built 2013	3,453 3,292 3,053 2,816 BR/BA -\$10,000	\$82.51 \$78.98 \$87.45 \$94.11 Park \$/GBA \$85.05	5/3.5 4/3.5 4/4.5 5/3.5 Other BR/BA 5/3.5	2-Car 2-Car 2-Car 2-Car 2-Car Total \$284,900 \$273,948 \$268,051 \$303,659 Park 2-Car	2-Story 2-Story 2-Story 2-Story % Diff 4% 6% -7% Style 2-Story	Avg % Diff 1%	400
_	Not Not Not Solar Adjoins Not Not Not Adjoing Resid Solar Adjoins Not	2219 Granville 634 Friendly 2403 Granville Address 2312 Granville 2219 Granville 634 Friendly 2403 Granville ential Sales Afte Address 2310 Granville 2219 Granville	1.15 0.96 0.69 Time \$2,476 -\$10,260 -\$7,972 r Solar Fa Acres 0.76 1.15	5/1/2018 1/8/2018 7/31/2019 4/23/2019 Site rm Approve Date Sold 5/14/2019 1/8/2018	\$284,900 \$260,000 \$267,000 \$265,000 YB \$1,300 -\$6,675 -\$1,325 Sales Price \$280,000 \$260,000	2013 2012 2018 2014 GLA \$10,173 \$27,986 \$47,956 Built 2013 2012	3,453 3,292 3,053 2,816 BR/BA -\$10,000	\$82.51 \$78.98 \$87.45 \$94.11 Park \$/GBA \$85.05 \$78.98	5/3.5 4/3.5 4/4.5 5/3.5 Other BR/BA 5/3.5 4/3.5	2-Car 2-Car 2-Car 2-Car 2-Car Total \$284,900 \$273,948 \$268,051 \$303,659 Park 2-Car 2-Car	2-Story 2-Story 2-Story 2-Story % Diff 4% 6% -7% Style 2-Story 2-Story	Avg % Diff 1%	400 Distance
_	Not Not Not Solar Adjoins Not Not Not Adjoins Resid Solar Adjoins Not Not Not Not	2219 Granville 634 Friendly 2403 Granville Address 2312 Granville 2219 Granville 634 Friendly 2403 Granville ential Sales Afte Address 2310 Granville 2219 Granville 634 Friendly	1.15 0.96 0.69 Time \$2,476 -\$10,260 -\$7,972 r Solar Fa Acres 0.76 1.15 0.96	5/1/2018 1/8/2018 7/31/2019 4/23/2019 Site rm Approve Date Sold 5/14/2019 1/8/2018 7/31/2019	\$284,900 \$260,000 \$267,000 \$265,000 YB \$1,300 -\$6,675 -\$1,325 Sales Price \$280,000 \$260,000 \$267,000	2013 2012 2018 2014 GLA \$10,173 \$27,986 \$47,956 Built 2013 2012 2018	3,453 3,292 3,053 2,816 BR/BA -\$10,000 GBA 3,292 3,292 3,053	\$82.51 \$78.98 \$87.45 \$94.11 Park \$/GBA \$85.05 \$78.98 \$87.45	5/3.5 4/3.5 4/4.5 5/3.5 Other BR/BA 5/3.5 4/3.5 4/4.5	2-Car 2-Car 2-Car 2-Car 2-Car Total \$284,900 \$273,948 \$268,051 \$303,659 Park 2-Car 2-Car 2-Car	2-Story 2-Story 2-Story % Diff 4% 6% -7% Style 2-Story 2-Story 2-Story	Avg % Diff 1%	400 Distance
-	Not Not Not Solar Adjoins Not Not Not Adjoing Resid Solar Adjoins Not	2219 Granville 634 Friendly 2403 Granville Address 2312 Granville 2219 Granville 634 Friendly 2403 Granville ential Sales Afte Address 2310 Granville 2219 Granville	1.15 0.96 0.69 Time \$2,476 -\$10,260 -\$7,972 r Solar Fa Acres 0.76 1.15	5/1/2018 1/8/2018 7/31/2019 4/23/2019 Site rm Approve Date Sold 5/14/2019 1/8/2018	\$284,900 \$260,000 \$267,000 \$265,000 YB \$1,300 -\$6,675 -\$1,325 Sales Price \$280,000 \$260,000	2013 2012 2018 2014 GLA \$10,173 \$27,986 \$47,956 Built 2013 2012	3,453 3,292 3,053 2,816 BR/BA -\$10,000	\$82.51 \$78.98 \$87.45 \$94.11 Park \$/GBA \$85.05 \$78.98	5/3.5 4/3.5 4/4.5 5/3.5 Other BR/BA 5/3.5 4/3.5	2-Car 2-Car 2-Car 2-Car 2-Car Total \$284,900 \$273,948 \$268,051 \$303,659 Park 2-Car 2-Car	2-Story 2-Story 2-Story 2-Story % Diff 4% 6% -7% Style 2-Story 2-Story	Avg % Diff 1%	400 Distance
-	Not Not Not Solar Adjoins Not Not Not Adjoins Resid Solar Adjoins Not Not Not Not	2219 Granville 634 Friendly 2403 Granville Address 2312 Granville 2219 Granville 634 Friendly 2403 Granville ential Sales Afte Address 2310 Granville 2219 Granville 634 Friendly	1.15 0.96 0.69 Time \$2,476 -\$10,260 -\$7,972 r Solar Fa Acres 0.76 1.15 0.96	5/1/2018 1/8/2018 7/31/2019 4/23/2019 Site rm Approve Date Sold 5/14/2019 1/8/2018 7/31/2019	\$284,900 \$260,000 \$267,000 \$265,000 YB \$1,300 -\$6,675 -\$1,325 Sales Price \$280,000 \$260,000 \$267,000	2013 2012 2018 2014 GLA \$10,173 \$27,986 \$47,956 Built 2013 2012 2018	3,453 3,292 3,053 2,816 BR/BA -\$10,000 GBA 3,292 3,292 3,053	\$82.51 \$78.98 \$87.45 \$94.11 Park \$/GBA \$85.05 \$78.98 \$87.45	5/3.5 4/3.5 4/4.5 5/3.5 Other BR/BA 5/3.5 4/3.5 4/4.5	2-Car 2-Car 2-Car 2-Car 2-Car Total \$284,900 \$273,948 \$268,051 \$303,659 Park 2-Car 2-Car 2-Car	2-Story 2-Story 2-Story % Diff 4% 6% -7% Style 2-Story 2-Story 2-Story	Avg % Diff 1%	400 Distance
-	Not Not Not Solar Adjoins Not Not Not Adjoins Resid Solar Adjoins Not Not Not Not	2219 Granville 634 Friendly 2403 Granville Address 2312 Granville 2219 Granville 634 Friendly 2403 Granville ential Sales Afte Address 2310 Granville 2219 Granville 634 Friendly	1.15 0.96 0.69 Time \$2,476 -\$10,260 -\$7,972 r Solar Fa Acres 0.76 1.15 0.96	5/1/2018 1/8/2018 7/31/2019 4/23/2019 Site rm Approve Date Sold 5/14/2019 1/8/2018 7/31/2019	\$284,900 \$260,000 \$267,000 \$265,000 YB \$1,300 -\$6,675 -\$1,325 Sales Price \$280,000 \$260,000 \$267,000	2013 2012 2018 2014 GLA \$10,173 \$27,986 \$47,956 Built 2013 2012 2018	3,453 3,292 3,053 2,816 BR/BA -\$10,000 GBA 3,292 3,292 3,053	\$82.51 \$78.98 \$87.45 \$94.11 Park \$/GBA \$85.05 \$78.98 \$87.45	5/3.5 4/3.5 4/4.5 5/3.5 Other BR/BA 5/3.5 4/3.5 4/4.5	2-Car 2-Car 2-Car 2-Car 2-Car Total \$284,900 \$273,948 \$268,051 \$303,659 Park 2-Car 2-Car 2-Car	2-Story 2-Story 2-Story % Diff 4% 6% -7% Style 2-Story 2-Story 2-Story	Avg % Diff 1%	400 Distance
-	Not Not Not Solar Adjoins Not Not Not Solar Adjoins Not	2219 Granville 634 Friendly 2403 Granville Address 2312 Granville 2219 Granville 634 Friendly 2403 Granville ential Sales Afte Address 2310 Granville 2219 Granville 634 Friendly 2403 Granville	1.15 0.96 0.69 Time \$2,476 -\$10,260 -\$7,972 r Solar Fa Acres 0.76 1.15 0.96 0.69	5/1/2018 1/8/2018 7/31/2019 4/23/2019 Site rm Approve Date Sold 5/14/2019 1/8/2018 7/31/2019 4/23/2019	\$284,900 \$260,000 \$267,000 \$265,000 YB \$1,300 -\$6,675 -\$1,325 Sales Price \$280,000 \$260,000 \$267,000 \$265,000	2013 2012 2018 2014 GLA \$10,173 \$27,986 \$47,956 Built 2013 2012 2018 2014	3,453 3,292 3,053 2,816 BR/BA -\$10,000 GBA 3,292 3,292 3,053 2,816	\$82.51 \$78.98 \$87.45 \$94.11 Park \$/GBA \$85.05 \$78.98 \$87.45 \$94.11	5/3.5 4/3.5 4/4.5 5/3.5 Other BR/BA 5/3.5 4/3.5 4/4.5 5/3.5	2-Car 2-Car 2-Car 2-Car 2-Car Total \$284,900 \$273,948 \$268,051 \$303,659 Park 2-Car 2-Car 2-Car	2-Story 2-Story 2-Story % Diff 4% 6% -7% Style 2-Story 2-Story 2-Story 2-Story	Avg % Diff 1% Other	400 Distance
-	Not Not Not Solar Adjoins Not Not Not Solar Adjoins Adjoins Adjoins Not Solar Adjoins Not	2219 Granville 634 Friendly 2403 Granville Address 2312 Granville 2219 Granville 634 Friendly 2403 Granville ential Sales Afte Address 2310 Granville 2219 Granville 634 Friendly 2403 Granville	1.15 0.96 0.69 Time \$2,476 -\$10,260 -\$7,972 r Solar Fa Acres 0.76 1.15 0.96 0.69	5/1/2018 1/8/2018 7/31/2019 4/23/2019 Site rm Approve Date Sold 5/14/2019 1/8/2018 7/31/2019 4/23/2019	\$284,900 \$260,000 \$267,000 \$265,000 YB \$1,300 -\$6,675 -\$1,325 Sales Price \$280,000 \$260,000 \$267,000 \$265,000	2013 2012 2018 2014 GLA \$10,173 \$27,986 \$47,956 Built 2013 2012 2018 2014	3,453 3,292 3,053 2,816 BR/BA -\$10,000 GBA 3,292 3,292 3,053 2,816	\$82.51 \$78.98 \$87.45 \$94.11 Park \$/GBA \$85.05 \$78.98 \$87.45 \$94.11	5/3.5 4/3.5 4/4.5 5/3.5 Other BR/BA 5/3.5 4/3.5 4/4.5 5/3.5	2-Car 2-Car 2-Car 2-Car 2-Car \$284,900 \$273,948 \$268,051 \$303,659 Park 2-Car 2-Car 2-Car 2-Car	2-Story 2-Story 2-Story % Diff 4% 6% -7% Style 2-Story 2-Story 2-Story 2-Story	Avg % Diff 1% Other Avg % Diff	400 Distance
_	Not Not Not Not Solar Adjoins Not Not Solar Adjoins Not Not Solar Adjoins Not	2219 Granville 634 Friendly 2403 Granville Address 2312 Granville 2219 Granville 634 Friendly 2403 Granville ential Sales Afte Address 2310 Granville 634 Friendly 2403 Granville 634 Friendly 2403 Granville	1.15 0.96 0.69 Time \$2,476 -\$10,260 -\$7,972 r Solar Fa Acres 0.76 1.15 0.96 0.69	5/1/2018 1/8/2018 7/31/2019 4/23/2019 Site rm Approve Date Sold 5/14/2019 1/8/2018 7/31/2019 4/23/2019	\$284,900 \$260,000 \$267,000 \$265,000 YB \$1,300 -\$6,675 -\$1,325 ed Sales Price \$280,000 \$260,000 \$267,000 \$265,000	2013 2012 2018 2014 GLA \$10,173 \$27,986 \$47,956 Built 2013 2012 2018 2014 GLA	3,453 3,292 3,053 2,816 BR/BA -\$10,000 GBA 3,292 3,292 3,053 2,816	\$82.51 \$78.98 \$87.45 \$94.11 Park \$/GBA \$85.05 \$78.98 \$87.45 \$94.11	5/3.5 4/3.5 4/4.5 5/3.5 Other BR/BA 5/3.5 4/3.5 4/4.5 5/3.5	2-Car 2-Car 2-Car 2-Car 2-Car \$284,900 \$273,948 \$268,051 \$303,659 Park 2-Car 2-Car 2-Car 2-Car 2-Car	2-Story 2-Story 2-Story % Diff 4% 6% -7% Style 2-Story 2-Story 2-Story 2-Story % Diff	Avg % Diff 1% Other Avg % Diff	400 Distance

I have also considered the original sales prices in this subdivision relative to the recent resale values as shown in the chart below. This rate of appreciation is right at 2.5% over the last 6 years. Zillow indicates that the average home value within the 27530 zip code as of January 2014 was \$101,300 and as of January 2020 that average is \$118,100. This indicates an average increase in the market of 2.37%. I conclude that the appreciation of the homes adjoining the solar farm are not impacted by the presence of the solar farm based on this data.

	Initial Sale		Second Sale	!	Year			%	Apprec.
Address	Date	Price	Date	Price	Diff		Apprec.	Apprec.	%/Year
1 103 Granville Pl	4/1/2013	\$245,000	7/27/2018	\$265,000		5.32	\$20,000	8.16%	1.53%
2 105 Erin	7/1/2014	\$250,000	6/19/2017	\$280,000		2.97	\$30,000	12.00%	4.04%
3 2312 Granville	12/1/2013	\$255,000	5/1/2015	\$262,000		1.41	\$7,000	2.75%	1.94%
4 2312 Granville	5/1/2015	\$262,000	5/1/2018	\$284,900		3.00	\$22,900	8.74%	2.91%
5 2310 Granville	8/1/2013	\$250,000	5/14/2019	\$280,000		5.79	\$30,000	12.00%	2.07%
6 2308 Granville	9/1/2013	\$260,000	11/12/2015	\$267,500		2.20	\$7,500	2.88%	1.31%
7 2304 Granville	9/1/2012	\$198,000	6/1/2017	\$225,000		4.75	\$27,000	13.64%	2.87%
8 102 Erin	8/1/2014	\$253,000	11/1/2016	\$270,000		2.25	\$17,000	6.72%	2.98%
								Average	2.46%
								Median	2.47%

2. Matched Pair - Mulberry, Selmer, TN



This 16 MW solar farm was built in 2014 on 208.89 acres with the closest home being 480 feet.

This solar farm adjoins two subdivisions with Central Hills having a mix of existing and new construction homes. Lots in this development have been marketed for \$15,000 each with discounts offered for multiple lots being used for a single home site. I spoke with the agent with Rhonda Wheeler and Becky Hearnsberger with United County Farm & Home Realty who noted that they have seen no impact on lot or home sales due to the solar farm in this community.

I have included a map below as well as data on recent sales activity on lots that adjoin the solar farm or are near the solar farm in this subdivision both before and after the announced plan for this solar farm facility. I note that using the same method I used to breakdown the adjoining uses at the subject property I show that the predominant adjoining uses are residential and agricultural, which is consistent with the location of most solar farms.

Adjoining Use Breakdown

	Acreage	Parcels
Commercial	3.40%	0.034
Residential	12.84%	79.31%
Agri/Res	10.39%	3.45%
Agricultural	73.37%	13.79%
Total	100.00%	100.00%

I have run a number of direct matched comparisons on the sales adjoining this solar farm as shown below. These direct matched pairs include some of those shown above as well as additional more recent sales in this community. In each of these I have compared the one sale adjoining the solar farm to multiple similar homes nearby that do not adjoin a solar farm to look for any potential impact from the solar farm.

Parcel	Solar	Address	Acres	Date Sold	Sales Price	Built	GBA	\$/GBA	BR/BA	Park	Style	Other
3	Adjoins	491 Dusty	6.86	10/28/2016	\$176,000	2009	1,801	\$97.72	3/2	2-Gar	Ranch	
	Not	820 Lake Trail	1.00	6/8/2018	\$168,000	2013	1,869	\$89.89	4/2	2-Gar	Ranch	
	Not	262 Country	1.00	1/17/2018	\$145,000	2000	1,860	\$77.96	3/2	2-Gar	Ranch	
	Not	35 April	1.15	8/16/2016	\$185,000	2016	1,980	\$93.43	3/2	2-Gar	Ranch	

			Adjoining Sales Adjusted								
Parcel	Solar	Address	Time	Site	YB	GLA	Park	Other	Total	% Diff	Distance
3	Adjoins	491 Dusty							\$176,000		480
	Not	820 Lake Trail	-\$8,324	\$12,000	-\$3,360	-\$4,890			\$163,426	7%	
	Not	262 Country	-\$5,450	\$12,000	\$6,525	-\$3,680			\$154,396	12%	
	Not	35 April	\$1,138	\$12,000	-\$6,475	-\$13,380			\$178,283	-1%	
									Average	6%	

The best matched pair is 35 April Loop, which required the least adjustment and indicates a -1% increase in value due to the solar farm adjacency.

Adjoining Residential Sales After Solar Farm Built

Parcel	Solar	Address	Acres	Date Sold	Sales Price	Built	GBA	\$/GBA	BR/BA	Park	Style	Other
12	Adjoins	57 Cooper	1.20	2/26/2019	\$163,000	2011	1,586	\$102.77	3/2	2-Gar	1.5 Story	Pool
	Not	191 Amelia	1.00	8/3/2018	\$132,000	2005	1,534	\$86.05	3/2	Drive	Ranch	
	Not	75 April	0.85	3/17/2017	\$134,000	2012	1,588	\$84.38	3/2	2-Crprt	Ranch	
	Not	345 Woodland	1.15	12/29/2016	\$131,000	2002	1,410	\$92.91	3/2	1-Gar	Ranch	

Parcel	Solar	Address	Sales Price	Time	Site	YB	GLA	Park	Other	Total	% Diff	Distance
12	Adjoins	57 Cooper	\$163,000							\$163,000		685
	Not	191 Amelia	\$132,000	\$2,303		\$3,960	\$2,685	\$10,000	\$5,000	\$155,947	4%	
	Not	75 April	\$134,000	\$8,029	\$4,000	-\$670	-\$135	\$5,000	\$5,000	\$155,224	5%	
	Not	345 Woodland	\$131,000	\$8,710		\$5,895	\$9,811		\$5,000	\$160,416	2%	
										Average	4%	

The best matched pair is 191 Amelia, which was most similar in time frame of sale and indicates a +4% increase in value due to the solar farm adjacency.

Adjoin	Adjoining Residential Sales After Solar Farm Built														
Parcel	Solar	Address	Acres	Date Sold	Sales Price	Built	GBA	\$/GBA	BR/BA	Park	Styl	e Other			
15	Adjoins	297 Count	ry 1.00	9/30/2016	\$150,000	2002	1,596	\$93.98	3/2	4-Gar	Ranc	h			
	Not	185 Dusty	y 1.85	8/17/2015	\$126,040	2009	1,463	\$86.15	3/2	2-Gar	Ranc	h			
	Not	53 Glen	1.13	3/9/2017	\$126,000	1999	1,475	\$85.42	3/2	2-Gar	Ranc	h Brick			
				Adjoining S	ales Adjuste	1									
Parcel	Solar	Address	Sales Price	Time	Site YB	GLA	Par	k Otl	ner To	tal	% Diff	Distance			
15	Adjoins	297 Country	\$150,000						\$150	0,000		650			
	Not	185 Dusty	\$126,040	\$4,355	-\$4,41	1 \$9,167	7 \$10,0	000	\$145	5,150	3%				
	Not	53 Glen	\$126,000	-\$1,699	\$1,89	0 \$8,269	\$10,0	000	\$144	1,460	4%				
									Ave	rage	3%				

The best matched pair is 53 Glen, which was most similar in time frame of sale and required less adjustment. It indicates a +4% increase in value due to the solar farm adjacency.

The average indicated impact from these three sets of matched pairs is +4%, which suggests a mild positive relationship due to adjacency to the solar farm. The landscaping buffer for this project is mostly natural tree growth that was retained as part of the development but much of the trees separating the panels from homes are actually on the lots for the homes themselves. I therefore consider the landscaping buffer to be thin to moderate for these adjoining homes.

I have also looked at several lot sales in this subdivision as shown below.

These are all lots within the same community and the highest prices paid are for lots one parcel off from the existing solar farm. These prices are fairly inconsistent, though they do suggest about a \$3,000 loss in the lots adjoining the solar farm. This is an atypical finding and additional details suggest there is more going on in these sales than the data crunching shows. First of all Parcel 4 was purchased by the owner of the adjoining home and therefore an atypical buyer seeking to expand a lot and the site is not being purchased for home development. Moreover, using the SiteToDoBusiness demographic tools, I found that the 1-mile radius around this development is expecting a total population increase over the next 5 years of 3 people. This lack of growing demand for lots is largely explained in that context. Furthermore, the fact that finished home sales as shown above are showing no sign of a negative impact on property value makes this data unreliable and inconsistent with the data shown in sales to an end user. I therefore place little weight on this outlier data.

						4/18/2019		4/18/2019
Parcel	Solar	Address	Acres	Date Sold	Sales Price	Adj for Time	\$/AC	Adj for Time
4	Adjoins	Shelter	2.05	10/25/2017	\$16,000	\$16,728	\$7,805	\$8,160
10	Adjoins	Carter	1.70	8/2/2018	\$14,000	\$14,306	\$8,235	\$8,415
11	Adjoins	Cooper	1.28	9/17/2018	\$12,000	\$12,215	\$9,375	\$9,543
	Not	75 Dusty	1.67	4/18/2019	\$20,000	\$20,000	\$11,976	\$11,976
	Not	Lake Trl	1.47	11/7/2018	\$13,000	\$13,177	\$8,844	\$8,964
	Not	Lake Trl	1.67	4/18/2019	\$20,000	\$20,000	\$11,976	\$11,976
		Adjoins	Per Acre	Not Adjoins	Per Acre	% DIF/Lot	% DIF/AC	
	Average	\$14,416	\$8,706	\$17,726	\$10,972	19%	21%	
	Median	\$14,306	\$8,415	\$20,000	\$11,976	28%	30%	
	High	\$16,728	\$9,543	\$20,000	\$11,976	16%	20%	
	Low	\$12,215	\$8,160	\$13,177	\$8,964	7%	9%	

3. Matched Pair - Leonard Road Solar Farm, Hughesville, MD



This 5 MW solar farm is located on 47 acres and mostly adjoins agricultural and residential uses to the west, south and east as shown above. The property also adjoins retail uses and a church. I looked at a 2016 sale of an adjoining home with a positive impact on value adjoining the solar farm of 2.90%. This is within typical market friction and supports an indication of no impact on property value.

I have shown this data below. The landscaping buffer is considered heavy.

Leonardtown Road Solar Farm, Hughesville, MD

Nearby Residential Sale After Solar Farm Construction

Address	Solar Farm	Acres	Date Sold S	ales Price*	Built	GBA	\$/GBA	Style	BR/BA	Bsmt	Park	Upgrades	s Other
14595 Box Elder Ct	Adjoins	3.00	2/12/2016	\$291,000	1991	2,174	\$133.85	Colonial	5/2.5	No	2 Car Att	N/A	Deck
15313 Bassford Rd	Not	3.32	7/20/2016	\$329,800	1990	2,520	\$130.87	Colonial	3/2.5	Finished	2 Car Att	Custom	Scr Por/Patio

^{*\$9,000} concession deducted from sale price for Box Elder and \$10,200 deducted from Bassford

Adjoining Sales Adju	sted			Adjustmen				
Address	Date Sold	Sales Price	Time	GLA	Bsmt	Upgrades	Other	Total
14595 Box Elder Ct	2/12/2016	\$291,000						\$291,000
15313 Bassford Rd	7/20/2016	\$329,800	-\$3,400	-\$13,840	-\$10,000	-\$15,000	-\$5,000	\$282,560

Difference Attributable to Location \$8,440 2.90%

This is within typical market friction and supports an indication of no impact on property value.

4. Matched Pair - Gastonia SC Solar, Gastonia, NC





This 5 MW project is located on the south side of Neal Hawkins Road just outside of Gastonia. The property identified above as Parcel 4 was listed for sale while this solar farm project was going

through the approval process. The property was put under contract during the permitting process with the permit being approved while the due diligence period was still ongoing. After the permit was approved the property closed with no concerns from the buyer. I spoke with Jennifer Bouvier, the broker listing the property and she indicated that the solar farm had no impact at all on the sales price. She considered some nearby sales to set the price and the closing price was very similar to the asking price within the typical range for the market. The buyer was aware that the solar farm was coming and they had no concerns.

This two-story brick dwelling was sold on March 20, 2017 for \$270,000 for a 3,437 square foot dwelling built in 1934 in average condition on 1.42 acres. The property has four bedrooms and two bathrooms. The landscaping screen is light for this adjoining home due to it being a new planted landscaping buffer.

Adjoining	Residential	Sales A	After Sola	ar Farm App	roved							
Solar	Address		Acres	Date Sold	Sales Price	Built	GBA	\$/GLA	BR/BA	Park	Style	Other
Adjoins 6	509 Neal Haw	kins	1.42	3/20/2017	\$270,000	1934	3,427	\$78.79	4/2	Open	2-Brick	
Not	1418 N Mode	na	4.81	4/17/2018	\$225,000	1930	2,906	\$77.43	3/3	2-Crprt	2-Brick	
Not	363 Dallas Be	ess	2.90	11/29/2018	\$265,500	1968	2,964	\$89.57	3/3	Open	FinBsmt	
Not	1612 Dallas C	Chry	2.74	9/17/2018	\$245,000	1951	3,443	\$71.16	3/2	Open	2-Brick	Unfin bath
Adjoining	g Sales Adju	sted									Avg	
Addr	ess	Time	Site	YB	GLA	BR/BA	Park	Other	Total	% Diff	% Diff	Distance
609 Neal	Hawkins								\$270,000			225
1418 N I	Modena	\$7,319		\$2,700	\$32,271		-\$10,000		\$257,290	5%		
363 Dalla	as Bess	\$746		-\$27,081	\$33,179	-\$10,000		\$53,100	\$262,456	3%		
1612 Dall	las Chry	\$4,110		-\$12,495	-\$911			\$10,000	\$235,704	13%		
	-										7%	

I also considered the newer adjoining home identified as Parcel 5 that sold later in 2017 and it likewise shows no negative impact on property value. This is also considered a light landscaping buffer.

Adjoining	Adjoining Residential Sales After Solar Farm Approved													
Solar	Address	Acres	Date Sold	Sales Price	Built	GBA	\$/GLA	BR/BA	Park	Style				
Adjoins	611 Neal Hawkins	0.78	7/6/2017	\$288,000	1991	2,256	\$127.66	5/3	2-Gar	1.5 Brick				
Not	1211 Still Frst	0.51	7/30/2018	\$280,000	1989	2,249	\$124.50	3/3	2-Gar	Br Rnch				
Not	2867 Colony Wds	0.52	8/14/2018	\$242,000	1990	2,006	\$120.64	3/3	2-Gar	Br Rnch				
Not	1010 Strawberry	1.00	10/4/2018	\$315,000	2002	2,330	\$135.19	3/2.5	2-Gar	1.5 Brick				

Adjoining Sales Ad		Avg									
Address	Time	Site	YB	GLA	BR/BA	Park	Other	Total	% Diff	% Diff	Distance
611 Neal Hawkins								\$288,000			145
1211 Still Frst	\$1,341		\$2,800	\$697				\$284,838	1%		
2867 Colony Wds	\$7,714		\$1,210	\$24,128				\$275,052	4%		
1010 Strawberry	-\$4,555		-\$17,325	-\$8,003	\$5,000			\$290,116	-1%		
										2%	

5. Matched Pair - Summit/Ranchlands Solar, Moyock, NC



This project is located at 1374 Caritoke Highway, Moyock, NC. This is an 80 MW facility on a parent tract of 2,034 acres. Parcels Number 48 and 53 as shown in the map above were sold in 2016. The project was under construction during the time period of the first of the matched pair sales and the permit was approved well prior to that in 2015.

I looked at multiple sales of adjoining and nearby homes and compared each to multiple comparables to show a range of impacts from -10% up to +11% with an average of +2% and a median of +3%. These ranges are well within typical real estate variation and supports an indication of no impact on property value.

	Adioinir	ıg Residen	tial Sal	es After S	olar Farm <i>A</i>	hnro	ved								
	Solar	Addre	ss	Acres	Date Sold	Sale	s Price	Built	GBA		BR/BA		Style	Other	Distance
48	Adjoins	129 Pir		4.29	4/15/2016		70,000	1985	1,559	\$109.04	3/2	Drive	MFG		1,060
	Not	102 Tim		1.30	4/1/2016		75,500	2009	1,352	\$129.81	3/2	Drive	MFG		
	Not	120 Rancl	nland	0.99	10/1/2014	\$17	70,000	2002	1,501	\$113.26	3/2	Drive	MFG		
														Avg	
	Solar	Addre	ss	Time	Site		YB	GLA	BR/BA	Park	Other	Total	% Diff	% Diff	
	Adjoins	129 Pir										\$170,000		-3%	
	Not	102 Tim		\$276	\$10,000		29,484	\$18,809				\$175,101			
	Not	120 Rancl	hland	\$10,735	\$10,000	-\$2	20,230	\$4,598				\$175,103	3 -3%		
Sola	r Ad	ldress	Acres	Date So	ld Sales	Price	Built	GBA	\$/GL	A BR/B	A Par	k Sty	·le	Other	
Adjoir	is 10	5 Pinto	4.99	12/16/20	016 \$206,	000	1978	1,484	\$138.8	1 3/2	Det	G Ran	ch		
Not	11	1 Spur	1.15	2/1/20	16 \$193,	000	1985	2,013	\$95.88	3 4/2	Ga	r Ran	ch		
Not	103	Marshall	1.07	3/29/20	17 \$196,	000	2003	1,620	\$120.9	9 3/2	Driv	re Ran	ch		
Not	127 F	Ranchland	0.00	6/9/20	15 \$219,	900	1988	1,910	\$115.1	3 3/2	Gar/3	Det Ran	ch		
Adjoi	ning Sal	les Adjus	ted										Avg		
Ac	ldress	Time	Si	te YI	GL/	A 1	BR/BA	Park	Oth	er To	otal	% Diff	% Diff	Distance	:
10	5 Pinto									\$20	6,000			980	
11	1 Spur	\$6,74	7 \$10,	000 -\$6,7	755 -\$25,3	359				\$17	7,633	14%			
103	Marshal	1 -\$2,21	2 \$10,	000 -\$24,	500 -\$8,2	27		\$5,000)	\$17	6,212	14%			
127 R	anchlan	d \$13.39	9 \$10.	000 -\$10.	995 -\$24,5	523		-\$10.00	00	\$19	7,781	4%			
		. ,	. ,	,	, ,			. ,			ĺ		11%		
-	_	dential Sa					. .	.	254	4.004	DD /D 4		Q. 1	0.1	5
Parcel 15	Solar Adjoins	Addre 318 Green		Acres 0.44	Date Sold 9/15/2019		57,000	Built 2005	GBA 3,460	\$/GBA \$103.18	BR/BA 4/4		Style 1.5 Brick	Other	Distance 570
15	Not	195 St An		0.55	6/17/2018		14,000	2003	3,561	\$88.18	5/3	2-Car	2.0 Brick		310
	Not	336 Green		0.64	1/13/2019		55,000	2002	3,790	\$96.31	6/4	3-Car	2.0 Brick		
	Not	275 Green		0.36	8/15/2019		12,000	2003	3,100	\$100.65	5/3	2-Car	2.0 Brick		
					-,,,		.,		-,		-,0				
														Avg	
	Solar	Addre		Time	Site		YB	GLA	BR/BA	Park	Other		% Diff	% Diff	
	Adjoins	318 Green	View									\$357,000)	4%	

\$4,710

-\$1,825

\$3,120

-\$7,125 \$10,000

\$28,986 \$10,000

-\$25,425

\$333,625

\$354,921

-\$5,000 \$340,286

7%

5%

Not 195 St Andrews

Not Not 336 Green View

275 Green View

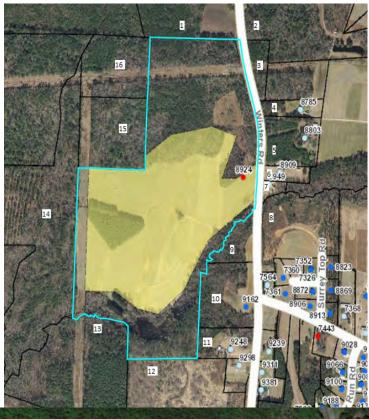
\$12,040

\$7,536

\$815

Adjoin	ing Resi	dential Sales Aft	er Solar Fa	arm Built									
Parcel 29	Solar Adjoins	Address 164 Ranchland	Acres 1.01	Date Sold 4/30/2019	Sales Price \$169,000	Built 1999	GBA 2,052	\$/GBA \$82.36	BR/BA 4/2	Park Gar	Style MFG	Other	Distance 440
20	Not	150 Pinto	0.94	3/27/2018	\$168,000	2017	1,920	\$87.50	4/2	Drive	MFG		110
	Not	105 Longhorn	1.90	10/10/2017		2002	1,944	\$94.91	3/2	Drive	MFG		
	Not	112 Pinto	1.00	7/27/2018	\$180,000	2002	1,836	\$98.04	3/2	Drive	MFG	Fenced	
				.,,	,,,,,,,,		-,	4	-/-				
												Avg	
	Solar	Address	Time	Site	YB	GLA	BR/BA	Park	Other	Total	% Diff	% Diff	
	Adjoins	164 Ranchland								\$169,000		-10%	
	Not	150 Pinto	\$5,649		-\$21,168	\$8,085			\$5,000	\$165,566	2%		
	Not	105 Longhorn	\$8,816	-\$10,000	-\$3,875	\$7,175			\$5,000	\$191,616	-13%		
	Not	112 Pinto	\$4,202		-\$3,780	\$14,824			\$5,000	\$200,245	-18%		
Adjoin	ing Resi	dential Sales Aft	er Solar Fa	arm Built									
Parcel	Solar	Address	Acres	Date Sold	Sales Price	Built	GBA	\$/GBA	BR/BA	Park	Style	Other	Distance
	Adjoins	358 Oxford	10.03	9/16/2019	\$478,000	2008	2,726	\$175.35	3/3	2 Gar	Ranch		635
	Not	276 Summit	10.01	12/20/2017	\$355,000	2006	1,985	\$178.84	3/2	2 Gar	Ranch		
	Not	176 Providence	6.19	5/6/2019	\$425,000	1990	2,549	\$166.73	3/3	4 Gar	Ranch	Brick	
	Not	1601 B Caratoke	12.20	9/26/2019	\$440,000	2016	3,100	\$141.94	4/3.5	5 Gar	Ranch	Pool	
	Solar	Address	Time	Site	ΥВ	GLA	BR/BA	Park	Other	Total	% Diff	Avg % Diff	
	Adjoins	358 Oxford	Time	Site	15	GDA	DK/DA	Faik	Other	\$478,000	/0 DIII	5%	
	Not	276 Summit	\$18,996		\$3,550	\$106,017	\$10,000			\$493,564	-3%		
	Not	176 Providence	\$4,763		\$38,250	\$23,609	+,	-\$10,000	-\$25,000	\$456,623	4%		
	Not	1601 B Caratoke	-\$371	\$50,000	-\$17,600		-\$5,000	-\$10,000	+,	\$414,562	13%		
							. ,	,		,			
Adjoin	ing Resi	dential Sales Aft	er Solar Fa	arm Approve	ed								
Parcel	Solar	Address	Acres	Date Sold	Sales Price	Built	GBA	\$/GBA	BR/BA	Park	Style	Other	Distance
	Nearby	343 Oxford	10.01	3/9/2017	\$490,000	2016	3,753	\$130.56	3/3	2 Gar	1.5 Story	Pool	970
	Not	287 Oxford	10.01	9/4/2017	\$600,000	2013	4,341	\$138.22	5/4.5	8-Gar	1.5 Story	Pool	
	Not	301 Oxford	10.00	4/23/2018	\$434,000	2013	3,393	\$127.91	5/3	2 Gar	1.5 Story		
	Not	218 Oxford	10.01	4/4/2017	\$525,000	2006	4,215	\$124.56	4/3	4 Gar	1.5 Story	VG Barn	
												Avg	
	Solar	Address	Time	Site	YB	GLA	BR/BA	Park	Other	Total	% Diff	% Diff	
	Adjoins	343 Oxford	¢0.051		40.000	465 017	Ø1E 000	\$05.000		\$490,000	10/	3%	
	Not	287 Oxford	-\$9,051	\$10.000	\$9,000		-\$15,000	-\$25,000		\$494,932	-1%		
	Not	301 Oxford	-\$14,995	-\$10,000	\$6,510	\$36,838		¢10.000	¢10.000	\$452,353	8%		
	Not	218 Oxford	-\$1,150		\$26,250	-\$46,036		-φ10,000	-φ10,000	\$484,064	1%		

6. Matched Pair - Tracy Solar, Bailey, NC





This project is located in rural Nash County on Winters Road with a 5 MW facility that was built in 2016 on 50 acres. A local builder acquired parcels 9 and 10 following construction as shown below

at rates comparable to other tracts in the area. They then built a custom home for an owner and sold that at a price similar to other nearby homes as shown in the matched pair data below. The retained woods provide a heavy landscaped buffer for this homesite.

#	Solar Farm	TAX ID	Grantor	Grantee	Address	Acres	Date Sold	Sales Pric	e \$/AC	Other
810	Adjoins	316003	Cozart	Kingsmill	9162 Winters	13.22	7/21/2016	\$70,000	\$5,295	
		& 316004								
	Not	6056	Billingsly		427 Young	41	10/21/2016	\$164,000	\$4,000	
	Not	33211	Fulcher	Weikel	10533 Cone	23.46	7/18/2017	\$137,000	\$5,840	Doublewide, structures
	Not	106807	Perry	Gardner	Claude Lewis	11.22	8/10/2017	\$79,000	\$7,041	Gravel drive for sub, cleared
	Not	3437	Vaughan	N/A	11354 Old Lewis Sch	18.73	Listing	\$79,900	\$4,266	Small cemetery,wooded
		Ad	joining S	Sales Adj	justed					
			Time	Acres	Location	Other	r Adj \$	S/Ac %	Diff	
							\$5,2	295		
			\$0	\$400	\$0	\$0	\$4,4	400	17%	
			-\$292	\$292	\$0	-\$500			-1%	
			-\$352	\$0	\$0	-\$1,00	0 \$5,6	589	-7%	
			-\$213	\$0	\$0	\$213	\$4,2	266	19%	
							۸ver	200	7%	
							Aver	age	7%	

Adjoining S	Sales Adju	sted					
Time	Acres	YB	GLA	Style	Other	Total	% Diff
						\$255,000)

\$5,007

1/5/2017 \$255,000

6/30/2016 \$176,000

2016

2010

\$5,000

1,616 \$157.80 3/2

1,529 \$115.11 3/2

\$15,000 \$252,399

Ranch

2-story

1%

1296 sf wrkshp

13.22

0.93

\$44,000 \$7,392

9 & 10 Adjoins s 9162 Winters

v 7352 Red Fox

\$0

Not

The comparables for the land show either a significant positive relationship or a mild negative relationship to having and adjoining solar farm, but when averaged together they show no negative impact. The wild divergence is due to the difficulty in comping out this tract of land and the wide variety of comparables used. The two comparables that show mild negative influences include a property that was partly developed as a residential subdivision and the other included a doublewide with some value and accessory agricultural structures. The tax assessed value on the improvements were valued at \$60,000. So both of those comparables have some limitations for comparison. The two that show significant enhancement due to adjacency includes a property with a cemetery located in the middle and the other is a tract almost twice as large. Still that larger tract after adjustment provides the best matched pair as it required the least adjustment. I therefore conclude that there is no negative impact due to adjacency to the solar farm shown by this matched pair.

The dwelling that was built on the site was a build-to-suit and was compared to a nearby homesale of a property on a smaller parcel of land. I adjusted for that differenced based on a \$25,000 value for a 1-acre home site versus the \$70,000 purchase price of the larger subject tract. The other adjustments are typical and show no impact due to the adjacency to the solar farm.

The closest solar panel to the home is 780 feet away.

I note that the representative for Kingsmill Homes indicated that the solar farm was never a concern in purchasing the land or selling the home. He also indicated that they had built a number of nearby homes across the street and it had never come up as an issue.

7. Matched Pair - Manatee Solar Farm, Parrish, FL



This solar farm is located near Seminole Trail, Parrish, FL. The solar farm has a 74.50 MW output and is located on a 1,180.38 acre tract and was built in 2016. The tract is owned by Florida Power & Light Company.

I have considered the recent sale of 13670 Highland Road, Wimauma, Florida. This one-story, concrete block home is located just north of the solar farm and separated from the solar farm by a railroad corridor. This home is a 3 BR, 3 BA 1,512 s.f. home with a carport and workshop. The property includes new custom cabinets, granite counter tops, brand new stainless steel appliances, updated bathrooms and new carpet in the bedrooms. The home is sitting on 5 acres. The home was built in 1997.

I have compared this sale to several nearby homesales as part of this matched pair analysis as shown below. The landscaping separating the home from the solar farm is considered heavy.

Solar	TAX ID/Address	Acres	Date Sold	Sales Price	Built	GBA	\$/GBA	BR/BA	Park	Style	Note
Adjoins	13670 Highland	5.00	8/21/2017	\$255,000	1997	1,512	\$168.65	3/3	Carport/Wrkshp	Ranch	Renov.
Not	2901 Arrowsmith	1.91	1/31/2018	\$225,000	1979	1,636	\$137.53	3/2	2 Garage/Wrkshp	Ranch	
Not	602 Butch Cassidy	1.00	5/5/2017	\$220,000	2001	1,560	\$141.03	3/2	N/A	Ranch	Renov.
Not	2908 Wild West	1.23	7/12/2017	\$254,000	2003	1,554	\$163.45	3/2	2 Garage/Wrkshp	Ranch	Renov.
Not	13851 Highland	5.00	9/13/2017	\$240,000	1978	1,636	\$146.70	4/2	3 Garage	Ranch	Renov.

		Adjoinin	g Sales Ad							
Solar	TAX ID/Address	Time	Acres	YB	GLA	BR/BA	Park	Note	Total	% Diff
Adjoins	13670 Highland								\$255,000	
Not	2901 Arrowsmith	\$2,250	\$10,000	\$28,350	-\$8,527	\$5,000	-\$10,000	\$10,000	\$262,073	-3%
Not	602 Butch Cassidy	-\$2,200	\$10,000	-\$6,160	-\$3,385	\$5,000	\$2,000		\$225,255	12%
Not	2908 Wild West	\$0	\$10,000	-\$10,668	-\$3,432	\$5,000	-\$10,000		\$244,900	4%
Not	13851 Highland	\$0	\$0	\$31,920	-\$9,095	\$3,000	-\$10,000		\$255,825	0%
									Average	3%

The sales prices of the comparables before adjustments range from \$220,000 to \$254,000. After adjustments they range from \$225,255 to \$262,073. The comparables range from no impact to a strong positive impact. The comparables showing -3% and +4% impact on value are considered within a typical range of value and therefore not indicative of any impact on property value.

This set of matched pair data falls in line with the data seen in other states. The closest solar panel to the home at 13670 Highland is 1,180 feet. There is a wooded buffer between these two properties.

I have included a map showing the relative location of these properties below.



8. Matched Pair - McBride Place Solar Farm, Midland, NC



This project is located on Mount Pleasant Road, Midland, North Carolina. The property is on 627 acres on an assemblage of 974.59 acres. The solar farm was approved in early 2017 for a 74.9 MW facility.

I have considered the sale of 4380 Joyner Road which adjoins the proposed solar farm near the northwest section. This property was appraised in April of 2017 for a value of \$317,000 with no consideration of any impact due to the solar farm in that figure. The property sold in November

2018 for \$325,000 with the buyer fully aware of the proposed solar farm. The landscaping buffer relative to Joyner Road, Hayden Way, Chanel Court and Kristi Lane is considered medium, while the landscaping for the home at the north end of Chanel Court is considered very light.

I have considered the following matched pairs to the subject property.

Adjoining Re	esidential Sale	s After Solar	Farm Approved								
Solar	Address	Acre	s Date Sold	Sales Price	Built	GBA	\$/GBA	BR/BA	Park	Style	Other
Adjoins	4380 Joyne	er 12.00	11/22/2017	\$325,000	1979	1,598	\$203.38	3/2	2xGar	Ranch	Outbldg
Not	3870 Elkwo	od 5.50	8/24/2016	\$250,000	1986	1,551	\$161.19	3/2.5	Det 2xGar	Craft	
Not	8121 Lower R	ocky 18.00	2/8/2017	\$355,000	1977	1,274	\$278.65	2/2	2xCarprt	Ranch	Eq. Fac.
Not	13531 Cabar	rus 7.89	5/20/2016	\$267,750	1981	2,300	\$116.41	3/2	2xGar	Ranch	
Adjoining	g Sales Adj	usted									
Time	Acres	YB	Condition	GLA	BR/BA	P	ark	Other	Total	%	Diff
									\$325,00	00	
\$7,500	\$52,000	-\$12,250	\$10,000	\$2,273	-\$2,000	\$2	,500	\$7,500	\$317,52	3 2	2%
\$7,100	-\$48,000	\$4,970		\$23,156	\$0	\$3	3,000	-\$15,000	\$330,22	26 -	2%
\$8,033	\$33,000	-\$3,749	\$20,000	-\$35,832	\$0		\$0	\$7,500	\$296,70)2	9%
									Average	• (3%

The home at 4380 Joyner Road is 275 feet from the closest solar panel.

I also considered the recent sale of a lot at 5800 Kristi Lane that is on the east side of the proposed solar farm. This 4.22-acre lot sold in December 2017 for \$94,000. A home was built on this lot in 2019 with the closest point from home to panel at 689 feet. The home site is heavily wooded and their remains a wooded buffer between the solar panels and the home. I spoke with the broker, Margaret Dabbs, who indicated that the solar farm was considered a positive by both buyer and seller as it insures no subdivision will be happening in that area. Buyers in this market are looking for privacy and seclusion.

The breakdown of recent lot sales on Kristi are shown below with the lowest price paid for the lot with no solar farm exposure, though that lot has exposure to Mt Pleasant Road South. Still the older lot sales have exposure to the solar farm and sold for higher prices than the front lot and adjusting for time would only increase that difference.

Adjoin	ing Lot S	ales After Solar	Farm Built				
Parcel	Solar	Address	Acres	Date Sold	Sales Price	\$/AC	\$/Lot
	Adjoins	5811 Kristi	3.74	5/1/2018	\$100,000	\$26,738	\$100,000
	Adjoins	5800 Kristi	4.22	12/1/2017	\$94,000	\$22,275	\$94,000
	Not	5822 Kristi	3.43	2/24/2020	\$90,000	\$26,239	\$90,000

The lot at 5811 Kristi Lane sold in May 2018 for \$100,000 for a 3.74-acre lot. The home that was built later in 2018 is 505 feet to the closest solar panel. This home then sold to a homeowner for \$530,000 in April 2020. I have compared this home sale to other properties in the area as shown below.

Adjoinin	ig Residential Sal	es After S	olar Farm Bı	ıilt							
Solar	Address	Acres	Date Sold	Sales Price	Built	GBA	\$/GBA	BR/BA	Park	Style	Other
Adjoins	5811 Kristi	3.74	3/31/2020	\$530,000	2018	3,858	\$137.38	5/3.5	2 Gar	2-story	Cement Ext
Not	3915 Tania	1.68	12/9/2019	\$495,000	2007	3,919	\$126.31	3/3.5	2 Gar	2-story	3Det Gar
Not	6782 Manatee	1.33	3/8/2020	\$460,000	1998	3,776	\$121.82	4/2/2h	2 Gar	2-story	Water
Not	314 Old Hickory	1.24	9/20/2019	\$492,500	2017	3,903	\$126.18	6/4.5	2 Gar	2-story	
											Avg
Solar	Address	Time	Site	YB	GLA	BR/BA	Park	Other	Total	% Diff	% Diff
Adjoins	5811 Kristi								\$530,000		5%
Not	3915 Tania	\$6,285		\$27,225	-\$3,852		-\$20,000		\$504,657	5%	
Not	6782 Manatee	\$1,189		\$46,000	\$4,995	\$5,000			\$517,183	2%	
Not	314 Old Hickory	\$10,680		\$2,463	-\$2,839	-\$10,000			\$492,803	7%	

After adjusting the comparables, I found that the average adjusted value shows a slight increase in value for the subject property adjoining a solar farm. As in the other cases, this is a mild positive impact on value but within the typical range of real estate transactions.

I also looked at 5833 Kristi Lane that sold on 9/14/2020 for \$625,000. This home is 470 feet from the closest panel.

Solar	Address	Acres	Date Sold	Sales Price	Built	GBA	\$/GLA	BR/BA	Park	Style	Other
Nearby	5833 Kristi	4.05	9/14/2020	\$625,000	2008	4,373	\$142.92	5/4	3-Car	2-Brick	
Not	4055 Dakeita	4.90	12/30/2020	\$629,000	2005	4,427	\$142.08	4/4	4-Car	2-Brick	4DetGar/Stable
Not	9615 Bales	2.16	6/30/2020	\$620,000	2007	4,139	\$149.79	4/5	3-Car	2-Stone	2DetGar
Not	9522 Bales	1.47	6/18/2020	\$600,000	2007	4,014	\$149.48	4/4.5	3-Car	2-Stone	

Adjoining Sales	s Adjusted	l								Avg	
Address	Time	Site	YB	GLA	BR/BA	Park	Other	Total	% Diff	% Diff	Distance
5833 Kristi								\$625,000			470
4055 Dakeita	-\$9,220		\$5,661	-\$6,138		-\$25,000		\$594,303	5%		
9615 Bales	\$6,455		\$1,860	\$28,042	-\$10,000	-\$15,000		\$631,356	-1%		
9522 Bales	\$7,233		\$1,800	\$42,930	-\$5,000			\$646,963	-4%		
										00/-	

The average difference is 0% impact and the differences are all within a close range with this set of comparables and supports a finding of no impact on property value.

I have also looked at 4504 Chanel Court. This home sold on January 1, 2020 for \$393,500 for this 3,010 square foot home built in 2004 with 3 bedroooms, 3.5 bathrooms, and a 3-car garage. This home includes a full partially finished basement that significantly complicates comparing this to other sales. This home previously sold on January 23, 2017 for \$399,000. This was during the time that the solar farm was a known factor as the solar farm was approved in early 2017 and public discussions had already commenced. I spoke with Rachelle Killman with Real Estate Realty, LLC the buyer's agent for this transaction and she indicated that the solar farm was not a factor or consideration for the buyer. She noted that you could see the panels sort of through the trees, but it wasn't a concern for the buyer. She was not familiar with the earlier 2017 sale, but indicated that it was likely too high. This again goes back to the partially finished basement issue. The basement has a fireplace, and an installed 3/4 bathroom but otherwise bare studs and concrete floors with different buyers assigning varying value to that partly finished space. I also reached out to Don Gomez with Don Anthony Realty, LLC as he was the listing agent.

I also looked at the recent sale of 4599 Chanel Court. This home is within 310 feet of solar panels but notably does not have a good landscaping screen in place as shown in the photo below. The plantings appear to be less than 3-feet in height and only a narrow, limited screen of existing hardwoods were kept. The photograph is from the listing.

According to Scott David with Better Homes and Gardens Paracle Realty, this property was under contract for \$550,000 contingent on the buyer being able to sell their former home. The former home was apparently overpriced and did not sell and the contract stretched out over 2.5 months.

The seller was in a bind as they had a home they were trying to buy contingent on this closing and were about to lose that opportunity. A cash buyer offered them a quick close at \$500,000 and the seller accepted that offer in order to not lose the home they were trying to buy. According to Mr. David, the original contracted buyer and the actual cash buyer never considered the solar farm as a negative. In fact Mr. David noted that the actual buyer saw it as a great opportunity to purchase a home where a new subdivision could not be built behind his house. I therefore conclude that this property supports a finding of no impact on adjoining property, even where the landscaping screen still requires time to grow in for a year-round screen.

I also considered a sale/resale analysis on this property. This same home sold on September 15, 2015 for \$462,000. Adjusting this upward by 5% per year for the five years between these sales dates suggests a value of \$577,500. Comparing that to the \$550,000 contract that suggests a 5% downward impact, which is within a typical market variation. Given that the broker noted no negative impact from the solar farm and the analysis above, I conclude this sale supports a finding of no impact on value.



9. Matched Pair - Mariposa Solar, Gaston County, NC



This project is a 5 MW facility located on 35.80 acres out of a parent tract of 87.61 acres at 517 Blacksnake Road, Stanley that was built in 2016.

I have considered a number of recent sales around this facility as shown below.

The first is identified in the map above as Parcel 1, which is 215 Mariposa Road. This is an older dwelling on large acreage with only one bathroom. I've compared it to similar nearby homes as shown below. The landscaping buffer for this home is considered light.

Adjoining Residential Sales After Solar Farm Approved

Solar	Address	Acres	Date Sold	Sales Price	Built	GBA	\$/GBA	BR/BA	Park	Style
Adjoins	215 Mariposa	17.74	12/12/2017	\$249,000	1958	1,551	\$160.54	3/1	Garage	Br/Rnch
Not	249 Mariposa	0.48	3/1/2019	\$153,000	1974	1,792	\$85.38	4/2	Garage	Br/Rnch
Not	110 Airport	0.83	5/10/2016	\$166,000	1962	2,165	\$76.67	3/2	Crprt	Br/Rnch
Not	1249 Blacksnake	5.01	9/20/2018	\$242,500	1980	2,156	\$112.48	3/2	Drive	1.5
Not	1201 Abernathy	27.00	5/3/2018	\$390,000	1970	2,190	\$178.08	3/2	Crprt	Br/Rnch

${\bf Adjoining} \ {\bf Residential} \ {\bf Sales} \ {\bf After} \ {\bf Solar} \ {\bf Farm} \ {\bf Approved}$					Adjoining	g Sales Adjı	ısted						
Solar	Address	Acres	Date Sold	Sales Price	Time	YB	Acres	GLA	BR/BA	Park	Other	Total	% Diff
Adjoins	215 Mariposa	17.74	12/12/2017	\$249,000								\$249,000	
Not	249 Mariposa	0.48	3/1/2019	\$153,000	-\$5,583	-\$17,136	\$129,450	-\$20,576	-\$10,000			\$229,154	8%
Not	110 Airport	0.83	5/10/2016	\$166,000	\$7,927	-\$4,648	\$126,825	-\$47,078	-\$10,000			\$239,026	4%
Not	1249 Blacksnake	5.01	9/20/2018	\$242,500	-\$5,621	-\$37,345	\$95,475	-\$68,048	-\$10,000	\$5,000		\$221,961	11%
Not	1201 Abernathy	27.00	5/3/2018	\$390,000	-\$4,552	-\$32,760	-\$69,450	-\$60,705	-\$10,000			\$212,533	15%
												Average	9%

The average difference after adjusting for all factors is +9% on average, which suggests an enhancement due to the solar farm across the street. Given the large adjustments for acreage and size, I will focus on the low end of the adjusted range at 4%, which is within the typical deviation and therefore suggests no impact on value.

I have also considered Parcel 4 that sold after the solar farm was approved but before it had been constructed in 2016. The landscaping buffer for this parcel is considered light.

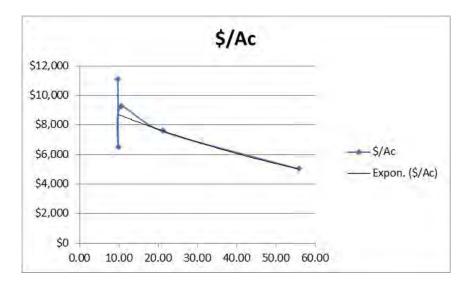
Adjoining Residential Sales After Solar Farm Approved											
Solar	Address	Acres	Date Sold	Sales Price	Built	GBA	\$/GBA	BR/BA	Park	Style	Other
Adjoins	242 Mariposa	2.91	9/21/2015	\$180,000	1962	1,880	\$95.74	3/2	Carport	Br/Rnch	Det Wrkshop
Not	249 Mariposa	0.48	3/1/2019	\$153,000	1974	1,792	\$85.38	4/2	Garage	Br/Rnch	
Not	110 Airport	0.83	5/10/2016	\$166,000	1962	2,165	\$76.67	3/2	Crprt	Br/Rnch	
Not	1249 Blacksnake	5.01	9/20/2018	\$242,500	1980	2,156	\$112.48	3/2	Drive	1.5	

Adjoining	Residential Sale	s After	Solar Farm	Approved	Adjoining	Sales Adju	ısted						
Solar	Address	Acres	Date Sold	Sales Price	Time	YB	Acres	GLA	BR/BA	Park	Other	Total	% Diff
Adjoins	242 Mariposa	2.91	9/21/2015	\$180,000								\$180,000	
Not	249 Mariposa	0.48	3/1/2019	\$153,000	-\$15,807	-\$12,852	\$18,468	\$7,513		-\$3,000	\$25,000	\$172,322	4%
Not	110 Airport	0.83	5/10/2016	\$166,000	-\$3,165	\$0	\$15,808	-\$28,600			\$25,000	\$175,043	3%
Not	1249 Blacksnake	5.01	9/20/2018	\$242,500	-\$21,825	-\$30,555	-\$15,960	-\$40,942		\$2,000	\$25,000	\$160,218	11%
												Average	6%

The average difference after adjusting for all factors is +6%, which is again suggests a mild increase in value due to the adjoining solar farm use. The median is a 4% adjustment, which is within a standard deviation and suggests no impact on property value.

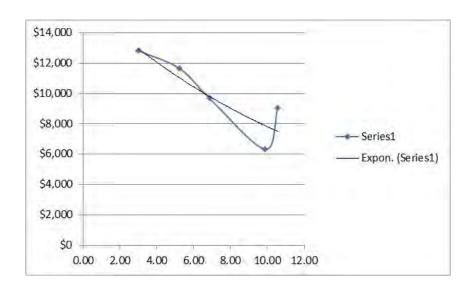
I have also considered the recent sale of Parcel 13 that is located on Blacksnake Road south of the project. I was unable to find good land sales in the same 20-acre range, so I have considered sales of larger and smaller acreage. I adjusted each of those land sales for time. I then applied the price per acre to a trendline to show where the expected price per acre would be for 20 acres. As can be seen in the chart below, this lines up exactly with the purchase of the subject property. I therefore conclude that there is no impact on Parcel 13 due to proximity to the solar farm.

Adjoinin	g Residential Land	d Sales	After Solar	Farm Approv	ved	Adjoining Sa	les Adjusted
Solar	Tax/Street	Acres	Date Sold	Sales Price	\$/Ac	Time	\$/Ac
Adjoins	174339/Blacksnake	21.15	6/29/2018	\$160,000	\$7,565		\$7,565
Not	227852/Abernathy	10.57	5/9/2018	\$97,000	\$9,177	\$38	\$9,215
Not	17443/Legion	9.87	9/7/2018	\$64,000	\$6,484	-\$37	\$6,447
Not	164243/Alexis	9.75	2/1/2019	\$110,000	\$11,282	-\$201	\$11,081
Not	176884/Bowden	55.77	6/13/2018	\$280,000	\$5.021	\$7	\$5.027



Finally, I have considered the recent sale of Parcel 17 that sold as vacant land. I was unable to find good land sales in the same 7 acre range, so I have considered sales of larger and smaller acreage. I adjusted each of those land sales for time. I then applied the price per acre to a trendline to show where the expected price per acre would be for 7 acres. As can be seen in the chart below, this lines up with the trendline running right through the purchase price for the subject property. I therefore conclude that there is no impact on Parcel 13 due to proximity to the solar farm. I note that this property was improved with a 3,196 square foot ranch built in 2018 following the land purchase, which shows that development near the solar farm was unimpeded.

Adjoining Residential Land Sales After Solar Farm Approved Adjoining Sales Adjusted									
Solar	Tax/Street	Acres	Date Sold	Sales Price	\$/Ac	Time	Location	\$/Ac	
Adjoins	227039/Mariposa	6.86	12/6/2017	\$66,500	\$9,694			\$9,694	
Not	227852/Abernathy	10.57	5/9/2018	\$97,000	\$9,177	-\$116		\$9,061	
Not	17443/Legion	9.87	9/7/2018	\$64,000	\$6,484	-\$147		\$6,338	
Not	177322/Robinson	5.23	5/12/2017	\$66,500	\$12,715	\$217	-\$1,272	\$11,661	
Not	203386/Carousel	2.99	7/13/2018	\$43,500	\$14,548	-\$262	-\$1,455	\$12,832	



10. Matched Pair - Clarke County Solar, Clarke County, VA



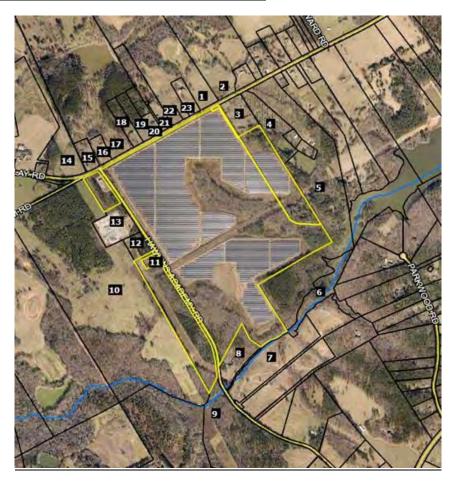
This project is a 20 MW facility located on a 234-acre tract that was built in 2017.

I have considered two recent sales of Parcel 3. The home on this parcel is 1,230 feet from the closest panel as measured in the second map from Google Earth, which shows the solar farm under construction. This home sold in January 2017 for \$295,000 and again in August 2019 for \$385,000. I show each sale below and compare those to similar home sales in each time frame. The significant increase in price between 2017 and 2019 is due to a major kitchen remodel, new roof, and related upgrades as well as improvement in the market in general. The sale and later resale of the home with updates and improvements speaks to pride of ownership and increasing overall value as properties perceived as diminished are less likely to be renovated and sold for profit.

I note that 102 Tilthammer includes a number of barns that I did not attribute any value in the analysis. The market would typically give some value for those barns but even without that adjustment there is an indication of a positive impact on value due to the solar farm. The landscaping buffer from this home is considered light.

Adjoin	ing Re	sident	ial S	Sales After	r Solar F	arm Approv	ed							
Parcel	Sola	r	Add	lress	Acres	Date Sold	Sales Price	Built	GBA	\$/GLA	BR/BA	Park	Style	Other
3	Adjoir	ıs 833	3 Nat	tions Spr	5.13	8/18/2019	\$385,000	1979	1,392	\$276.58	3/2	Det Gar	Rancl	n UnBsmt
	Not		167	Leslie	5.00	8/19/2020	\$429,000	1980	1,665	\$257.66	3/2	Det2Gar	Ranch	1
	Not	239	93 O1	d Chapel	2.47	8/10/2020	\$330,000	1974	1,500	\$220.00	3/1.5	Det Gar	Rancl	1
	Not	102	2 Tilt	hammer	6.70	5/7/2019	\$372,000	1970	1,548	\$240.31	3/1.5	Det Gar	Rancl	n UnBsmt
Adjoir	ning S	Sales .	Adj	usted								Av	g	
Tim	ıe	Site	•	YB	GLA	BR/BA	A Park	Othe		Fotal 885,000	% Diff	f % D	iff 1	Distance 1230
-\$13,	268			-\$2,145	-\$56,27	72	-\$5,000	\$50,0	00 \$4	02,315	-4%			
-\$9,9	956	\$25,00	00	\$8,250	-\$19,00	08 \$5,000)	\$50,0	00 \$3	89,286	-1%			
\$3,2				\$16,740	-\$29,99	91 \$5,000)		\$3	66,978	5%			
												0%	6	
Adjoin	ing Re	sident	ial S	Sales Afte	r Solar F	arm Approv	ed							
Parcel	Sola	r	Add	lress	Acres	Date Sold	Sales Price	Built	GBA	\$/GLA	BR/BA	Park	Style	Other
3	Adjoir	ıs 833	3 Nat	tions Spr	5.13	1/9/2017	\$295,000	1979	1,392	\$211.93	3/2	Det Gar	Rancl	n UnBsmt
	Not	6	801	Middle	2.00	12/12/2017	\$249,999	1981	1,584	\$157.83	3/2	Open	Rancl	1
	Not	41	74 R	Rockland	5.06	1/2/2017	\$300,000	1990	1,688	\$177.73	3/2	2 Gar	2-stor	y
	Not	40	00 St	ıgar Hill	1.00	6/7/2018	\$180,000	1975	1,008	\$178.57	3/1	Open	Rancl	ı
Adjoi	ning S	Sales .	Adj	usted								Av	g	
Tim	ıe	Site	:	YB	GLA	BR/BA	A Park	Othe		Fotal 295,000	% Diff	f % D	iff	Distance 1230
-\$7,1	.00	\$25,00	00	-\$2,500	-\$24,24	12	\$5,000	\$50,0	00 \$2	96,157	0%			
\$17	7			-\$16,500	-\$42,08	35	-\$10,000	\$50,0	00 \$2	81,592	5%			
-\$7,7	97			\$3,600	\$54,85	7 \$10,00	0 \$5,000	\$50,0	00 \$2	95,661	0%			
												1%	6	

11. Matched Pair - Simon Solar, Social Circle, GA



This 30 MW solar farm is located off Hawkins Academy Road and Social Circle Fairplay Road. I identified three adjoining sales to this tract after development of the solar farm. However, one of those is shown as Parcel 12 in the map above and includes a powerline easement encumbering over a third of the 5 acres and adjoins a large substation as well. It would be difficult to isolate those impacts from any potential solar farm impact and therefore I have excluded that sale. I also excluded the recent sale of Parcel 17, which is a farm with conservation restrictions on it that similarly would require a detailed examination of those conservation restrictions in order to see if there was any impact related to the solar farm. I therefore focused on the recent sale of Parcel 7 and the adjoining parcel to the south of that. They are technically not adjoining due to the access road for the flag-shaped lot to the east. Furthermore, there is an apparent access easement serving the two rear lots that encumber these two parcels which is a further limitation on these sales. This analysis assumes that the access easement does not negatively impact the subject property, though it may.

The landscaping buffer relative to this parcel is considered medium.

Adjoining Land Sales After Solar Farm Approved

Parcel	Solar	Address	Acres	Date Sold	Sales Price	\$/AC	Type	Other
7+	Adjoins	4514 Hawkins	36.86	3/31/2016	\$180,000	\$4,883	Pasture	Esmts
	Not	HD Atha	69.95	12/20/2016	\$357,500	\$5,111	Wooded	N/A
	Not	Pannell	66.94	11/8/2016	\$322,851	\$4,823	Mixed	*
	Not	1402 Rov	123.36	9/29/2016	\$479.302	\$3.885	Mixed	**

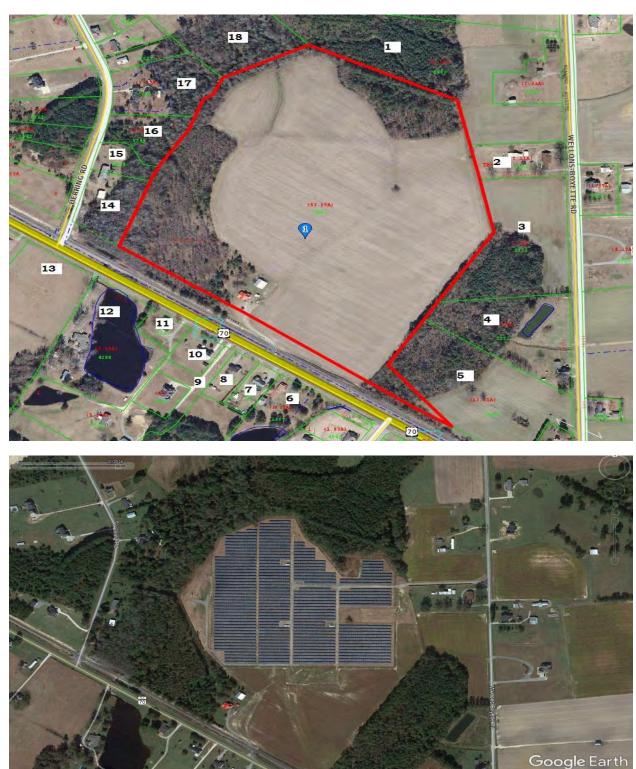
^{*} Adjoining 1 acre purchased by same buyer in same deed. Allocation assigned on the County Tax Record.

^{**} Dwelling built in 1996 with a 2016 tax assessed value of \$75,800 deducted from sales price to reflect land value

Adjoining Sa	ales Adju	sted				Avg
Time	Size	Type	Other	Total/Ac	% Diff	% Diff
				\$4,883		
\$89	\$256			\$5,455	-12%	
-\$90	\$241			\$4,974	-2%	
-\$60	\$389			\$4,214	14%	
						0%

The range of impact identified by these matched pairs are -12% to +14%, with an average of 0% impact due to the solar farm. The best matched pair with the least adjustment supports a -2% impact due to the solar farm. I note again that this analysis considers no impact for the existing access easements that meander through this property and it may be having an impact. Still at -2% impact as the best indication for the solar farm, I consider that to be no impact given that market fluctuations support +/-5%.

12. Matched Pair - Candace Solar, Princeton, NC



This 5 MW solar farm is located at 4839 US 70 Highway just east of Herring Road. This solar farm was completed on October 25, 2016.

I identified three adjoining sales to this tract after development of the solar farm with frontage on US 70. I did not attempt to analyze those sales as they have exposure to an adjacent highway and railroad track. Those homes are therefore problematic for a matched pair analysis unless I have similar homes fronting on a similar corridor.

I did consider a land sale and a home sale on adjoining parcels without those complications.

The lot at 499 Herring Road sold to Paradise Homes of Johnston County of NC, Inc. for \$30,000 in May 2017 and a modular home was placed there and sold to Karen and Jason Toole on September 29, 2017. I considered the lot sale first as shown below and then the home sale that followed. The landscaping buffer relative to this parcel is considered medium.

Adjoin	Adjoining Land Sales After Solar Farm Approved						Adjoining Sales Adjusted					
Parcel	Solar	Address	Acres	Date Sold	Sales Price	Other	Time	Site	Other	Total	% Diff	
16	Adjoins	499 Herring	2.03	5/1/2017	\$30,000					\$30,000		
	Not	37 Becky	0.87	7/23/2019	\$24,500	Sub/Pwr	-\$1,679	\$4,900		\$27,721	8%	
	Not	5858 Bizzell	0.88	8/17/2016	\$18,000		\$390	\$3,600		\$21,990	27%	
	Not	488 Herring	2.13	12/20/2016	\$35,000		\$389			\$35,389	-18%	
										Average	5%	

Following the land purchase, the modular home was placed on the site and sold. I have compared this modular home to the following sales to determine if the solar farm had any impact on the purchase price.

Parcel	Solar	Address	Acres	Date So	old Sa	ales Price	Built	GBA	\$/GBA	BR/BA	Park	Style	Other
16	Adjoins	499 Herring	2.03	9/27/20)17	\$215,000	2017	2,356	\$91.26	4/3	Drive	Modular	
	Not	678 WC	6.32	3/8/20	19	\$226,000	1995	1,848	\$122.29	3/2.5	Det Gar	Mobile	Ag bldgs
	Not	1810 Bay V	8.70	3/26/20)18	\$170,000	2003	2,356	\$72.16	3/2	Drive	Mobile	Ag bldgs
	Not	1795 Bay V	1.78	12/1/20)17	\$194,000	2017	1,982	\$97.88	4/3	Drive	Modular	
Adioin					-4-4							A == ~	
Aujoin	ing Reside	ntial Sales Af A	djoining	Sales Adju	stea							Avg	
Parcel	ing Reside Solar Adjoins	ntial Sales Af A Address 499 Herring	Idjoining Time	Sales Adju Site	YB	GLA	BR/BA	Park	Other	Total \$215,000	% Diff	% Diff	Distance 488
Parcel	Solar	Address 499 Herring	Time	•	YB		BR/BA -\$5,000	Park -\$7,500			% Diff	_	
Parcel	Solar Adjoins	Address 499 Herring	Time -\$10,037	Site	YB \$24,860	\$37,275			-\$20,000	\$215,000		_	
Parcel	Solar Adjoins Not	Address 499 Herring 678 WC	Time -\$10,037	Site -\$25,000 \$	YB \$24,860	\$37,275			-\$20,000	\$215,000 \$220,599	-3%	_	

The best comparable is 1795 Bay Valley as it required the least adjustment and was therefore most similar, which shows a 0% impact. This signifies no impact related to the solar farm.

The range of impact identified by these matched pairs ranges are therefore -3% to +26% with an average of +8% for the home and an average of +4% for the lot, though the best indicator for the lot shows a \$5,000 difference in the lot value due to the proximity to the solar farm or a -12% impact.

13. Matched Pair - Walker-Correctional Solar, Barham Road, Barhamsville, VA





This project was built in 2017 and located on 484.65 acres for a 20 MW with the closest home at 110 feet from the closest solar panel with an average distance of 500 feet.

I considered the recent sale identified on the map above as Parcel 19, which is directly across the street and based on the map shown on the following page is 250 feet from the closest panel. A

limited buffering remains along the road with natural growth being encouraged, but currently the panels are visible from the road. Alex Uminski, SRA with MGMiller Valuations in Richmond VA confirmed this sale with the buying and selling broker. The selling broker indicated that the solar farm was not a negative influence on this sale and in fact the buyer noticed the solar farm and then discovered the listing. The privacy being afforded by the solar farm was considered a benefit by the buyer. I used a matched pair analysis with a similar sale nearby as shown below and found no negative impact on the sales price. Property actually closed for more than the asking price. The landscaping buffer is considered light.

Adiaining	Decidential	Sales	After Sales	Farm	Anneogod
Aujoining	Residential	Sares	Aiter Solai	rarm	Approvea

Solar	Address	Acres	Date Sold	Sales Price	Built	GBA	\$/GBA	BR/BA	Park	Style	Other
Adjoins	5241 Barham	2.65	10/18/2018	\$264,000	2007	1,660	\$159.04	3/2	Drive	Ranch	Modular
Not	17950 New Kent	5.00	9/5/2018	\$290,000	1987	1,756	\$165.15	3/2.5	3 Gar	Ranch	
Not	9252 Ordinary	4.00	6/13/2019	\$277,000	2001	1,610	\$172.05	3/2	1.5-Gar	Ranch	
Not	2416 W Miller	1.04	9/24/2018	\$299,000	1999	1,864	\$160.41	3/2.5	Gar	Ranch	

	_		8	J							
Solar	Address	Time	Ac/Loc	YB	GLA	BR/BA	Park	Other	Total	% Diff	Dist
Adjoins	5241 Barham								\$264,000		250
Not	17950 New Kent		-\$8,000	\$29,000	-\$4,756	-\$5,000	-\$20,000	-\$15,000	\$266,244	-1%	
Not	9252 Ordinary	-\$8,310	-\$8,000	\$8,310	\$2,581		-\$10,000	-\$15,000	\$246,581	7%	
Not	2416 W Miller		\$8,000	\$11,960	-\$9,817	-\$5,000	-\$10,000	-\$15,000	\$279,143	-6%	

Average Diff 0%

I also spoke with Patrick W. McCrerey of Virginia Estates who was marketing a property that sold at 5300 Barham Road adjoining the Walker-Correctional Solar Farm. He indicated that this property was unique with a home built in 1882 and heavily renovated and updated on 16.02 acres. The solar farm was through the woods and couldn't be seen by this property and it had no impact on marketing this property. This home sold on April 26, 2017 for \$358,000. I did not set up any matched pairs for this property since it is a unique property that any such comparison would be difficult to rely on. The broker's comments do support the assertion that the adjoining solar farm had no impact on value. The home in this case was 510 feet from the closest panel.



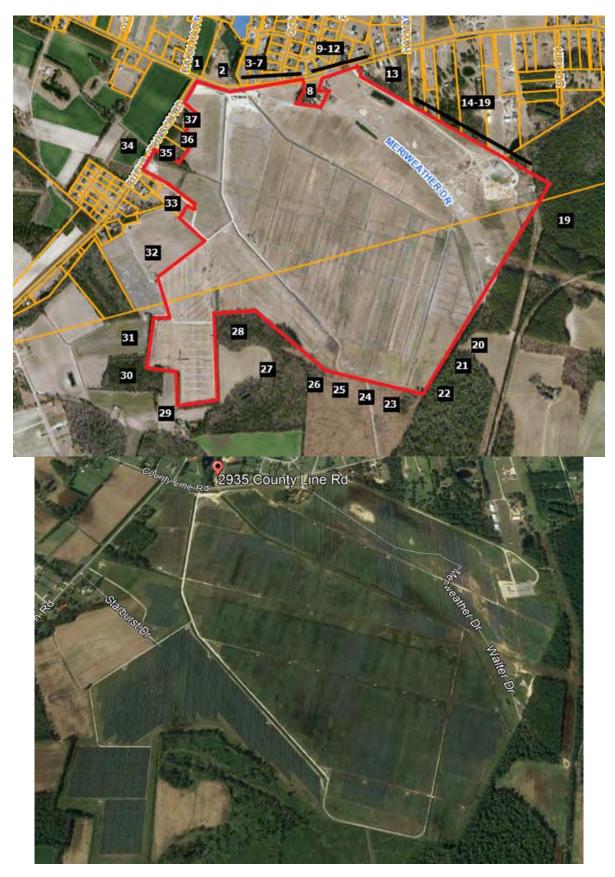


This project was built in 2016 and located on 532 acres for a 78.5 MW solar farm with the closest home at 125 feet from the closest solar panel with an average distance of 423 feet.

I considered the recent sale of a home on Roslin Farm Road just north of Running Fox Road as shown below. This sale supports an indication of no impact on property value. The landscaping buffer is considered light.

Distance
435
f

15. Matched Pair - Innovative Solar 42, County Line Rd, Fayetteville, NC



This project was built in 2017 and located on 413.99 acres for a 71 MW with the closest home at 135 feet from the closest solar panel with an average distance of 375 feet.

I considered the recent sales identified on the map above as Parcels 2 and 3, which is directly across the street these homes are 330 and 340 feet away. Parcel 2 includes an older home built in 1976, while Parcel 3 is a new home built in 2019. So the presence of the solar farm had no impact on new construction in the area.

The matched pairs for each of these are shown below. The landscaping buffer relative to these parcels is considered light.

Adjoini	ng Residential Sa	ıles Afte	r Solar Far	m Approved								
Solar	Address	Acres	Date Sold	Sales Price	Built	GBA	\$/GBA	BR/BA	Park	Style	Other	Distance
Adjoins	2923 County Ln	8.98	2/28/2019	\$385,000	1976	2,905	\$132.53	3/3	2-Car	Ranch	Brick/Pond	340
Not	1928 Shaw Mill	17.00	7/3/2019	\$290,000	1977	3,001	\$96.63	4/4	2-Car	Ranch	Brick/Pond/Renta	1
Not	2109 John McM.	7.78	4/25/2018	\$320,000	1978	2,474	\$129.35	3/2	Det Gar	Ranch	Vinyl/Pool,Stable	
											Avg	
Solar	Address	Time	Site	YB	GLA	BR/BA	Park	Other	Total	% Diff	% Diff	
Adjoins	2923 County Ln								\$385,000)	3%	
Not	1928 Shaw Mill	-\$3,055	\$100,000	-\$1,450	-\$7,422	-\$10,00	0		\$368,074	4%		
Not	2109 John McM.	\$8,333		-\$3,200	\$39,023	\$10,000)	\$5,000	\$379,156	2%		
Adjoinii Solar	ng Residential Sa Address			n Approved Sales Price	Built	GBA	\$/GBA	DD /D4	Park	04-1-	Other	Distance
Adjoins	2935 County Ln	Acres 1.19	6/18/2019	\$266,000	2019	2,401	\$110.79	BR/BA 4/3		Style 2-Story	Otner	330
Not	3005 Hemingway	1.17	5/16/2019	\$269,000	2019	2,601	\$103.42	4/3		2-Story		330
Not	7031 Glynn Mill	0.60	5/8/2018	\$255,000	2017	2,423	\$105.42	4/3		2-Story		
Not	5213 Bree Brdg	0.92	5/7/2019	\$260,000	2018	2,400	\$108.33	4/3		2-Story		
1100	0210 Dicc Diag	0.52	0/1/2015	Ψ200,000	2010	2,100	φ100.00	1,0	o dar	2 5:019		
											Avg	
Solar	Address	Time	Site	YB	GLA	BR/BA	Park	Other	Total	% Diff	% Diff	
Adjoins	2935 County Ln								\$266,000		3%	
Not	3005 Hemingway	\$748		\$1,345	-\$16,547				\$254,546	4%		
Not	7031 Glynn Mill	\$8,724		\$2,550	-\$1,852				\$264,422	1%		
Not	5213 Bree Brdg	\$920		\$1,300	\$76			-\$10,000	\$252,296	5%		

Both of these matched pairs adjust to an average of +3% on impact for the adjoining solar farm, meaning there is a slight positive impact due to proximity to the solar farm. This is within the standard +/- of typical real estate transactions, which strongly suggests no impact on property value. I noted specifically that for 2923 County Line Road, the best comparable is 2109 John McMillan as it does not have the additional rental unit on it. I made no adjustment to the other sale for the value of that rental unit, which would have pushed the impact on that comparable downward – meaning there would have been a more significant positive impact.

16. Matched Pair - Sunfish Farm, Keenebec Rd, Willow Spring, NC



This project was built in 2015 and located on 49.6 acres (with an inset 11.25 acre parcel) for a 6.4 MW project with the closest home at 135 feet with an average distance of 105 feet.

I considered the 2017 sale identified on the map above, which is 205 feet away from the closest panel. The matched pairs for each of these are shown below followed by a more recent map showing the panels at this site. The average difference in the three comparables and the subject property is +3% after adjusting for differences in the sales date, year built, gross living area, and other minor differences. This data is supported by the comments from the broker Brian Schroepfer with Keller Williams that the solar farm had no impact on the purchase price. The landscaping screen is considered light.

Adjoining Residential Sales After Solar Farm Approved

Parcel	Solar	Address	Acres	Date Sold	Sales Price	Built	GBA	\$/GBA	BR/BA	Park	Style
	Adjoins	7513 Glen Willow	0.79	9/1/2017	\$185,000	1989	1,492	\$123.99	3/2	Gar	BR/Rnch
	Not	2968 Tram	0.69	7/17/2017	\$155,000	1984	1,323	\$117.16	3/2	Drive	BR/Rnch
	Not	205 Pine Burr	0.97	12/29/2017	\$191,000	1991	1,593	\$119.90	3/2.5	Drive	BR/Rnch
	Not	1217 Old Honeycutt	1.00	12/15/2017	\$176,000	1978	1,558	\$112.97	3/2.5	2Carprt	VY/Rnch

Adjustn	ients										Avg
Solar	Address	Time	Site	YB	GLA	BR/BA	Park	Other	Total	% Diff	% Diff
Adjoins	7513 Glen Willow								\$185,000		
Not	2968 Tram	\$601		\$3,875	\$15,840		\$10,000		\$185,316	0%	
Not	205 Pine Burr	-\$1,915		-\$1,910	-\$9,688	-\$5,000			\$172,487	7%	
Not	1217 Old Honeycut	-\$1,557		\$9,680	-\$5,965	-\$5,000		\$5,280	\$178,438	4%	

3%

17. Matched Pair - Sappony Solar, Sussex County, VA



This project is a 30 MW facility located on a 322.68-acre tract that was built in the fourth quarter of 2017.

I have considered the 2018 sale of Parcel 17 as shown below. This was a 1,900 s.f. manufactured home on a 6.00-acre lot that sold in 2018. I have compared that to three other nearby manufactured homes as shown below. The range of impacts is within typical market variation with an average of -1%, which supports a conclusion of no impact on property value. The landscaping buffer is considered medium.

Adjoin	Adjoining Residential Sales After Solar Farm Approved													
Parcel	Solar	Ad	dress	Acres	Date Sold	Sales Price	Built	GBA	\$/GLA	BR/BA	Park	Styl	e Other	
	Adjoins	12511	Palestine	6.00	7/31/2018	\$128,400	2013	1,900	\$67.58	4/2.5	Open	Manı	af	
	Not	15698	Concord	3.92	7/31/2018	\$150,000	2010	2,310	\$64.94	4/2	Open	Manı	ıf Fence	
	Not	23209	9 Sussex	1.03	7/7/2020	\$95,000	2005	1,675	\$56.72	3/2	Det Crpt	Manı	af	
	Not	6494	Rocky Br	4.07	11/8/2018	\$100,000	2004	1,405	\$71.17	3/2	Open	Manı	af	
Adjoi	ning Sa	les Ad	justed								Av	g		
Tin	ie i	Site	YB	GLA	BR/B	A Park	Othe	er 1	Cotal	% Dif	f % D	iff	Distance	
								\$1	28,400				1425	
\$0)		\$2,250	-\$21,29	99 \$5,000)		\$1	35,951	-6%				
-\$5,6	560 \$1	3,000	\$3,800	\$10,20	9 \$5,000	\$1,500		\$1	22,849	4%				
-\$84	43		\$4,500	\$28,18	35			\$1	31,842	-3%				
											-19	%		

18. Matched Pair - Camden Dam, Camden, NC



This 5 MW project was built in 2019 and located on a portion of 49.83 acres.

Parcel 1 noted above along with the home on the adjoining parcel to the north of that parcel sold in late 2018 after this solar farm was approved but prior to construction being completed in 2019. I have considered this sale as shown below. The landscaping screen is considered light.

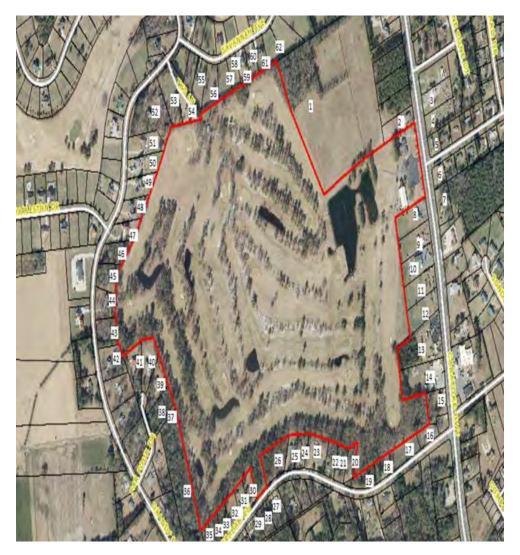
The comparable at 548 Trotman is the most similar and required the least adjustment shows no impact on property value. The other two comparables were adjusted consistently with one showing significant enhancement and another as showing a mild negative. The best indication is the one requiring the least adjustment. The other two sales required significant site adjustments which make them less reliable. The best comparable and the average of these comparables support a finding of no impact on property value.

Adjoining Residential Sales After Solar Farm Approved

Solar	Address	Acres	Date Sold	Sales Price	Built	GBA	\$/GLA	BR/BA	Park	Style	Other
Adjoins	122 N Mill Dam	12.19	11/29/2018	\$350,000	2005	2,334	\$149.96	3/3.5	3-Gar	Ranch	
Not	548 Trotman	12.10	5/31/2018	\$309,000	2007	1,960	\$157.65	4/2	Det2G	Ranch	Wrkshp
Not	198 Sand Hills	2.00	12/22/2017	\$235,000	2007	2,324	\$101.12	4/3	Open	Ranch	
Not	140 Sleepy Hlw	2.05	8/12/2019	\$330,000	2010	2,643	\$124.86	4/3	1-Gar	1.5 Story	

Adjoining Sales	Avg										
Address	Time	Site	YB	GLA	BR/BA	Park	Other	Total	% Diff	% Diff	Distance
122 N Mill Dam								\$350,000			342
548 Trotman	\$6,163		-\$3,090	\$35,377	\$5,000			\$352,450	-1%		
198 Sand Hills	\$8,808	\$45,000	-\$2,350	\$607		\$30,000		\$317,064	9%		
140 Sleepy Hlw	-\$9,258	\$45,000	-\$8,250	-\$23,149	\$5,000	\$30,000		\$369,343	-6%		
										1%	

19. Matched Pair - Grandy Solar, Grandy, NC



This 20 MW project was built in 2019 and located on a portion of 121 acres.

Parcels 40 and 50 have sold since construction began on this solar farm. I have considered both in matched pair analysis below. I note that the marketing for Parcel 40 (120 Par Four) identified the lack of homes behind the house as a feature in the listing. The marketing for Parcel 50 (269 Grandy) identified the property as "very private." Landscaping for both of these parcels is considered light.

Adjoining	Adjoining Residential Sales After Solar Farm Approved													
Solar	Add	ress	Acres	Date Sold	Sales I	Price	Built	t GBA	\$/G	LA BR/	BA P	ark S	tyle	Other
Adjoins	120 Pa	ar Four	0.92	8/17/2019	\$315,0	000	2006	2,188	\$143	.97 4/	3 2-	Gar 1.5	Story	Pool
Not	102 T	`eague	0.69	1/5/2020	\$300,	000	2005	2,177	\$137	.80 3/	2 De	t 3G Ra	anch	
Not	112 Me	adow Lk	0.92	2/28/2019	\$265,0	000	1992	2,301	\$115	.17 3/	2 (ar 1.5	Story	
Not	116 Ba	arefoot	0.78	9/29/2020	\$290,0	000	2004	2,192	\$132	.30 4/	3 2-	Gar 2	Story	
Adjoinin	g Sales	. Adjuste	d									Avg		
Addr	ess	Time	Site	YB	GLA	BR/I	BA	Park	Other	Total	% Dif	f % Di	ff Di	stance
120 Par	Four									\$315,000				405
102 Te	ague	-\$4,636		\$1,500	\$910	\$10,0	000		\$20,000	\$327,774	-4%			
112 Mea	dow Lk	\$4,937		\$18,550	-\$7,808	\$10,0	000	\$10,000	\$20,000	\$320,679	-2%			
116 Bar	refoot	-\$12,998		\$2,900	-\$318				\$20,000	\$299,584	5%			
												0%		

Adjoining	Reside	ntial Sale	es After s	Solar Farm	Approve	d							
Solar	Add	ress	Acres	Date Sol	d Sales I	Price	Buil	t GBA	\$/G	LA BR/	BA Park	Styl	e Other
Adjoins	269 G	randy	0.78	5/7/2019	\$275,	000	2019	1,53	5 \$179	.15 3/2	.5 2-Ga	r Ranc	ch.
Not	307 G	randy	1.04	10/8/201	8 \$240,	000	2002	2 1,63	4 \$146	.88 3/	2 Gar	1.5 St	ory
Not	103 B	ranch	0.95	4/22/202	0 \$230,	000	2000	1,53	2 \$150	.13 4/	2 2-Ga	r 1.5 St	ory
Not	103 Sp	oring Lf	1.07	8/14/201	8 \$270,	000	2002	1,63	5 \$165	.14 3/	2 2-Ga	r Ranc	h Pool
Adjoinin	g Sales	Adjuste	d									Avg	
Addre	ess	Time	Site	YB	GLA	BR/	BA	Park	Other	Total	% Diff	% Diff	Distance
269 Gra	andy									\$275,000			477
307 Gra	andy	\$5,550		\$20,400	-\$8,725	\$5,0	000	\$10,000		\$272,225	1%		
103 Bra	anch	-\$8,847		\$21,850	\$270					\$243,273	12%		
103 Spri	ing Lf	\$7,871		\$22,950	-\$9,908	\$5,0	000		-\$20,000	\$275,912	0%		
-	-											4%	

Both of these matched pairs support a finding of no impact on value. This is reinforced by the listings for both properties identifying the privacy due to no housing in the rear of the property as part of the marketing for these homes.

20. Matched Pair - Champion Solar, Lexington County, SC



This project is a 10 MW facility located on a 366.04-acre tract that was built in 2017.

I have considered the 2020 sale of an adjoining home located off 517 Old Charleston Road. Landscaping is considered light.

Adiaining	Residential	Salac	After	Salar	Farm	Annrowed

Solar	Address	Acres	Date Sold	Sales Price	Built	GBA	\$/GBA	BR/BA	Park	Style	Other
Adjoins	517 Old Charleston	11.05	8/25/2020	\$110,000	1962	925	\$118.92	3/1	Crport	Br Rnch	
Not	133 Buena Vista	2.65	6/21/2020	\$115,000	1979	1,104	\$104.17	2/2	Crport	Br Rnch	
Not	214 Crystal Spr	2.13	6/10/2019	\$102,500	1970	1,025	\$100.00	3/2	Crport	Rnch	
Not	1429 Laurel	2.10	2/21/2019	\$126,000	1960	1,250	\$100.80	2/1.5	Open	Br Rnch	3 Gar/Brn

Adjoining Sales Adj		Avg									
Address	Time	Site	YB	GLA	BR/BA	Park	Other	Total	% Diff	% Diff	Distance
517 Old Charleston								\$110,000			505
133 Buena Vista	\$410	\$17,000	-\$9,775	-\$14,917	-\$10,000			\$97,718	11%		
214 Crystal Spr	\$2,482	\$18,000	-\$4,100	-\$8,000	-\$10,000		\$10,000	\$110,882	-1%		
1429 Laurel	\$3,804	\$18,000	\$1,260	-\$26,208	-\$5,000	\$5,000	-\$15,000	\$107,856	2%		

4%



21. Matched Pair - Barefoot Bay Solar Farm, Barefoot Bay, FL

This project is located on 504 acres for a 704.5 MW facility. Most of the adjoining uses are medium density residential with some lower density agricultural uses to the southwest. This project was built in 2018. There is a new subdivision under development to the west.

I have considered a number of recent home sales from the Barefoot Bay Golf Course in the Barefoot Bay Recreation District. There are a number of sales of these mobile/manufactured homes along the eastern boundary and the lower northern boundary. I have compared those home sales to other similar homes in the same community but without the exposure to the solar farm. Staying within the same community keeps location and amenity impacts consistent. I did avoid any comparison with home sales with golf course or lakefront views as that would introduce another variable.

The six manufactured/double wide homes shown below were each compared to three similar homes in the same community and are consistently showing no impact on the adjoining property values. Based on the photos from the listings, there is limited but some visibility of the solar farm to the east, but the canal and landscaping between are providing a good visual buffer and actually are commanding a premium over the non-canal homes.

Landscaping for these adjoining homes is considered light, though photographs from the listings show that those homes on Papaya that adjoin the solar farm from east/west have no visibility of the solar farm and is effectively medium density due to the height differential. The homes that adjoin the solar farm from north/south along Papaya have some filtered view of the solar farm through the trees.

Adioit	ning Resid	lential Sales	After So	lar Farm A	nnroved							
-	Solar	Address		_	Sales Price	Built	GBA	\$/GLA	BR/BA	Park	Style	Other
14	Adjoins	465 Papaya C		7/21/2019	\$155,000	1993	1,104	\$140.40	2/2	Drive	Manuf	Canal
	Not	1108 Navajo	0.14	2/27/2019	\$129,000	1984	1,220	\$105.74	2/2	Crprt	Manuf	Canal
	Not	1007 Barefoot	t 0.11	9/3/2020	\$168,000	2005	1,052	\$159.70	2/2	Crprt	Manuf	Canal
	Not	1132 Waterwa	y 0.11	7/10/2020	\$129,000	1982	1,012	\$127.47	2/2	Crprt	Manuf	Canal
A 4!-!.	0 - 1										A	
-	_	Adjusted	VD	CT A	DD/DA I)	Other	T-4	_1 (o/ D:cc	Avg	Distance
	ddress Papaya Cr	Time	YB	GLA	BR/BA I	Park	Other	Tota \$155,		% Diff	% Diff	Distance 765
	8 Navajo	\$1,565	\$5,805	-\$9,812				\$126,		18%		700
	Barefoot		-\$10,080					\$158,		-2%		
	Waterway		\$7,095	\$9,382				\$141,		9%		
		, -,	, ,	1-7				. ,			8%	
Adjoir	ning Resid	lential Sales	After So	lar Farm A _l	pproved							
	Solar	Address			Sales Price		GBA	\$/GLA	-		Style	Other
19	Adjoins	455 Papaya	0.12	9/1/2020	\$183,500	2005	1,620	\$113.27	3/2	Crprt	Manuf	Canal
	Not	938 Waterway		2/12/2020	\$160,000	1986	1,705	\$93.84	2/2	Crprt	Manuf	Canal
	Not	719 Barefoot		4/14/2020	\$150,000	1996	1,635	\$91.74	3/2	Crprt	Manuf	Canal
	Not	904 Fir	0.17	9/27/2020	\$192,500	2010	1,626	\$118.39	3/2	Crprt	Manuf	Canal
Adioit	ning Sales	Adjusted									Avg	
-	ddress	Time	YB	GLA	BR/BA I	Park	Other	Tota	al '	% Diff	% Diff	Distance
	Papaya						0 01101	\$183,		,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	,,	750
	Waterway	\$2,724	\$15,200	-\$6,381				\$171,		7%		
719	Barefoot	\$1,770	\$6,750	-\$1,101				\$157,		14%		
9	04 Fir	-\$422	-\$4,813	-\$568				\$186,	697	-2%		
											6%	
Adjoir	ning Resid	lential Sales	After So	lar Farm A _l	pproved							
Parcel	ning Resid	lential Sales Address			Sales Price	Built	GBA	\$/GLA	BR/BA		Style	Other
•	Solar Adjoins	Address 419 Papaya	Acres 0.09	Date Sold 7/16/2019	Sales Price \$127,500	1986	1,303	\$97.85	2/2	Crprt	Manuf	Green
Parcel	Adjoins Not	Address 419 Papaya 865 Tamarind	Acres 0.09 0.12	Date Sold 7/16/2019 2/4/2019	Sales Price \$127,500 \$133,900	1986 1995	1,303 1,368	\$97.85 \$97.88	2/2 2/2	Crprt Crprt	Manuf Manuf	
Parcel	Adjoins Not Not	Address 419 Papaya 865 Tamarind 501 Papaya	Acres 0.09 1 0.12 0.10	Date Sold 7/16/2019 2/4/2019 6/15/2018	\$127,500 \$133,900 \$109,000	1986 1995 1986	1,303 1,368 1,234	\$97.85 \$97.88 \$88.33	2/2 2/2 2/2	Crprt Crprt Crprt	Manuf Manuf Manuf	Green
Parcel	Adjoins Not	Address 419 Papaya 865 Tamarind	Acres 0.09 0.12	Date Sold 7/16/2019 2/4/2019	Sales Price \$127,500 \$133,900	1986 1995	1,303 1,368	\$97.85 \$97.88	2/2 2/2	Crprt Crprt	Manuf Manuf	Green
Parcel 37	Adjoins Not Not Not	Address 419 Papaya 865 Tamarind 501 Papaya 418 Papaya	Acres 0.09 1 0.12 0.10	Date Sold 7/16/2019 2/4/2019 6/15/2018	\$127,500 \$133,900 \$109,000	1986 1995 1986	1,303 1,368 1,234	\$97.85 \$97.88 \$88.33	2/2 2/2 2/2	Crprt Crprt Crprt	Manuf Manuf Manuf Manuf	Green
Parcel 37	Adjoins Not Not Not	Address 419 Papaya 865 Tamarind 501 Papaya	Acres 0.09 1 0.12 0.10	Date Sold 7/16/2019 2/4/2019 6/15/2018	\$ales Price \$127,500 \$133,900 \$109,000 \$110,000	1986 1995 1986	1,303 1,368 1,234	\$97.85 \$97.88 \$88.33	2/2 2/2 2/2 2/2 2/2	Crprt Crprt Crprt	Manuf Manuf Manuf	Green Green
Parcel 37 Adjoin	Adjoins Not Not Not	Address 419 Papaya 865 Tamarind 501 Papaya 418 Papaya	0.09 0.12 0.10 0.09	Date Sold 7/16/2019 2/4/2019 6/15/2018 8/28/2019	\$ales Price \$127,500 \$133,900 \$109,000 \$110,000	1986 1995 1986 1987	1,303 1,368 1,234 1,248	\$97.85 \$97.88 \$88.33 \$88.14	2/2 2/2 2/2 2/2 2/2	Crprt Crprt Crprt Crprt	Manuf Manuf Manuf Manuf	Green Green
Parcel 37 Adjoin Ac 419	Adjoins Not Not Not Not Not ddress	Address 419 Papaya 865 Tamarind 501 Papaya 418 Papaya	0.09 0.12 0.10 0.09	Date Sold 7/16/2019 2/4/2019 6/15/2018 8/28/2019	\$ales Price \$127,500 \$133,900 \$109,000 \$110,000	1986 1995 1986 1987	1,303 1,368 1,234 1,248	\$97.85 \$97.88 \$88.33 \$88.14	2/2 2/2 2/2 2/2 2/2 3/2	Crprt Crprt Crprt Crprt	Manuf Manuf Manuf Manuf	Green Green Distance
Adjoin Ad 419 865	Adjoins Not Not Not Not Print Sales Address Papaya	Address 419 Papaya 865 Tamarind 501 Papaya 418 Papaya s Adjusted Time	Acres 0.09 1 0.12 0.10 0.09	Date Sold 7/16/2019 2/4/2019 6/15/2018 8/28/2019	\$ales Price \$127,500 \$133,900 \$109,000 \$110,000	1986 1995 1986 1987	1,303 1,368 1,234 1,248	\$97.85 \$97.88 \$88.33 \$88.14 Tota	2/2 2/2 2/2 2/2 2/2 3 41 500 613	Crprt Crprt Crprt Crprt Crprt	Manuf Manuf Manuf Manuf	Green Green Distance
Parcel 37 Adjoin A6 419 865 501	Adjoins Not Not Not Not Adjoins Not Not Taning Sales Address Papaya Tamarind	Address 419 Papaya 865 Tamarind 501 Papaya 418 Papaya s Adjusted Time \$1,828	0.09 0.12 0.10 0.09 YB	Date Sold 7/16/2019 2/4/2019 6/15/2018 8/28/2019 GLA -\$5,090	\$ales Price \$127,500 \$133,900 \$109,000 \$110,000	1986 1995 1986 1987	1,303 1,368 1,234 1,248 Other	\$97.85 \$97.88 \$88.33 \$88.14 Tota \$127, \$124,	2/2 2/2 2/2 2/2 2/2 31 500 613 513	Crprt Crprt Crprt Crprt Crprt Crpft 2%	Manuf Manuf Manuf Manuf	Green Green Distance
Parcel 37 Adjoin A6 419 865 501	Adjoins Not Not Not Papaya Tamarind Papaya	Address 419 Papaya 865 Tamarind 501 Papaya 418 Papaya s Adjusted Time \$1,828 \$3,637	0.09 0.12 0.10 0.09 YB -\$6,026 \$0	Date Sold 7/16/2019 2/4/2019 6/15/2018 8/28/2019 GLA -\$5,090 \$4,876	\$ales Price \$127,500 \$133,900 \$109,000 \$110,000	1986 1995 1986 1987	1,303 1,368 1,234 1,248 Other \$5,000	\$97.85 \$97.88 \$88.33 \$88.14 Tot: \$127, \$124, \$122,	2/2 2/2 2/2 2/2 2/2 31 500 613 513	Crprt Crprt Crprt Crprt Crprt **Diff* 2% 4%	Manuf Manuf Manuf Manuf	Green Green Distance
Parcel 37 Adjoin A6 419 865 501	Adjoins Not Not Not Papaya Tamarind Papaya	Address 419 Papaya 865 Tamarind 501 Papaya 418 Papaya s Adjusted Time \$1,828 \$3,637	0.09 0.12 0.10 0.09 YB -\$6,026 \$0	Date Sold 7/16/2019 2/4/2019 6/15/2018 8/28/2019 GLA -\$5,090 \$4,876	\$ales Price \$127,500 \$133,900 \$109,000 \$110,000	1986 1995 1986 1987	1,303 1,368 1,234 1,248 Other \$5,000	\$97.85 \$97.88 \$88.33 \$88.14 Tot: \$127, \$124, \$122,	2/2 2/2 2/2 2/2 2/2 31 500 613 513	Crprt Crprt Crprt Crprt Crprt **Diff* 2% 4%	Manuf Manuf Manuf Manuf Avg % Diff	Green Green Distance
Parcel 37 Adjoin A(419 865 501 418	Adjoins Not Not Not Not Papaya Tamarind Papaya Papaya Papaya Papaya	Address 419 Papaya 865 Tamarind 501 Papaya 418 Papaya s Adjusted Time \$1,828 \$3,637 -\$399	**************************************	Date Sold 7/16/2019 2/4/2019 6/15/2018 8/28/2019 GLA -\$5,090 \$4,876 \$3,878	\$ales Price \$127,500 \$133,900 \$109,000 \$110,000	1986 1995 1986 1987	1,303 1,368 1,234 1,248 Other \$5,000	\$97.85 \$97.88 \$88.33 \$88.14 Tota \$127, \$124, \$122, \$117,	2/2 2/2 2/2 2/2 2/2 5500 613 513 930	Crprt Crprt Crprt Crprt Crprt % Diff 2% 4% 8%	Manuf Manuf Manuf Manuf Avg % Diff	Green Green Distance 690
Adjoin Adjoin 419 865 501 418 Adjoin Parcel	Adjoins Not Not Not Not Papaya Tamarind Papaya Papaya Papaya Papaya Tamarind Papaya Papaya	Address 419 Papaya 865 Tamarind 501 Papaya 418 Papaya 418 Papaya s Adjusted Time \$1,828 \$3,637 -\$399	**Acres 0.09	Date Sold 7/16/2019 2/4/2019 6/15/2018 8/28/2019 GLA -\$5,090 \$4,876 \$3,878 lar Farm Ap	\$ales Price \$127,500 \$133,900 \$109,000 \$110,000 BR/BA I	1986 1995 1986 1987 Park	1,303 1,368 1,234 1,248 Other \$5,000	\$97.85 \$97.88 \$88.33 \$88.14 Tota \$127, \$124, \$122, \$117,	2/2 2/2 2/2 2/2 2/2 5500 613 513 930	Crprt Crprt Crprt Crprt % Diff 2% 4% 8%	Manuf Manuf Manuf Manuf Avg % Diff	Green Green Distance 690 Other
Parcel 37 Adjoin A(419 865 501 418	Adjoins Not Not Not Not Not Papaya Tamarind Papaya Papaya Papaya Tamarind Papaya Sales Sales Adjoins	Address 419 Papaya 865 Tamarind 501 Papaya 418 Papaya 418 Papaya s Adjusted Time \$1,828 \$3,637 -\$399 dential Sales Address 413 Papaya	**************************************	Date Sold 7/16/2019 2/4/2019 6/15/2018 8/28/2019 GLA -\$5,090 \$4,876 \$3,878 lar Farm Aj Date Sold 7/16/2020	\$ales Price \$127,500 \$133,900 \$109,000 \$110,000 BR/BA I	1986 1995 1986 1987 Park Built 2001	1,303 1,368 1,234 1,248 Other \$5,000 \$5,000	\$97.85 \$97.88 \$88.33 \$88.14 Tota \$127, \$124, \$122, \$117,	2/2 2/2 2/2 2/2 2/2 2/2 8al 5500 613 513 930	Crprt Crprt Crprt Crprt % Diff 2% 4% 8% Park Crprt	Manuf Manuf Manuf Manuf Avg % Diff 5%	Green Green Distance 690 Other Grn/Upd
Adjoin Adjoin 419 865 501 418 Adjoin Parcel	Adjoins Not Not Not Not Not Papaya Tamarind Papaya Papaya Papaya Adjoins Not	Address 419 Papaya 865 Tamarind 501 Papaya 418 Papaya 418 Papaya s Adjusted Time \$1,828 \$3,637 -\$399 dential Sales Address 413 Papaya 341 Loquat	**************************************	Date Sold 7/16/2019 2/4/2019 6/15/2018 8/28/2019 GLA -\$5,090 \$4,876 \$3,878 lar Farm Ap Date Sold 7/16/2020 2/3/2020	\$ales Price \$127,500 \$133,900 \$109,000 \$110,000 \$BR/BA II \$pproved \$ales Price \$130,000 \$118,000	1986 1995 1986 1987 Park Built 2001 1985	1,303 1,368 1,234 1,248 Other \$5,000 \$5,000 GBA 918 989	\$97.85 \$97.88 \$88.33 \$88.14 Tota \$127, \$124, \$122, \$117, \$141.61 \$141.61 \$119.31	2/2 2/2 2/2 2/2 2/2 2/2 8al 5500 613 513 930	Crprt Crprt Crprt Crprt % Diff 2% 4% 8% Park Crprt Crprt Crprt	Manuf Manuf Manuf Manuf Avg % Diff 5% Style Manuf Manuf	Green Green Distance 690 Other Grn/Upd Full Upd
Adjoin Adjoin 419 865 501 418 Adjoin Parcel	Adjoins Not Not Not Not Not Papaya Tamarind Papaya Papaya Tamarind Papaya Sa Papaya Adjoins Not Not	Address 419 Papaya 865 Tamarind 501 Papaya 418 Papaya 418 Papaya s Adjusted Time \$1,828 \$3,637 -\$399 Iential Sales Address 413 Papaya 341 Loquat 1119 Pocatella	**************************************	Date Sold 7/16/2019 2/4/2019 6/15/2018 8/28/2019 GLA -\$5,090 \$4,876 \$3,878 lar Farm Ap Date Sold 7/16/2020 2/3/2020 1/5/2021	\$ales Price \$127,500 \$133,900 \$109,000 \$110,000 \$BR/BA B Price \$130,000 \$118,000 \$120,000	1986 1995 1986 1987 Park Built 2001 1985 1993	1,303 1,368 1,234 1,248 Other \$5,000 \$5,000 GBA 918 989 999	\$97.85 \$97.88 \$88.33 \$88.14 Tota \$127, \$124, \$122, \$117, \$141.61 \$141.61 \$141.61 \$119.31 \$120.12	2/2 2/2 2/2 2/2 2/2 2/2 2/2 8al 5500 613 513 930 8R/BA 2/2 2/2 2/2	Crprt Crprt Crprt Crprt % Diff 2% 4% 8% Park Crprt Crprt Crprt Crprt Crprt	Manuf Manuf Manuf Manuf Avg % Diff 5% Style Manuf Manuf Manuf	Green Green Distance 690 Other Grn/Upd Full Upd Green
Adjoin Adjoin 419 865 501 418 Adjoin Parcel	Adjoins Not Not Not Not Not Papaya Tamarind Papaya Papaya Papaya Adjoins Not	Address 419 Papaya 865 Tamarind 501 Papaya 418 Papaya 418 Papaya s Adjusted Time \$1,828 \$3,637 -\$399 dential Sales Address 413 Papaya 341 Loquat	**************************************	Date Sold 7/16/2019 2/4/2019 6/15/2018 8/28/2019 GLA -\$5,090 \$4,876 \$3,878 lar Farm Ap Date Sold 7/16/2020 2/3/2020	\$ales Price \$127,500 \$133,900 \$109,000 \$110,000 \$BR/BA II \$pproved \$ales Price \$130,000 \$118,000	1986 1995 1986 1987 Park Built 2001 1985	1,303 1,368 1,234 1,248 Other \$5,000 \$5,000 GBA 918 989	\$97.85 \$97.88 \$88.33 \$88.14 Tota \$127, \$124, \$122, \$117, \$141.61 \$141.61 \$119.31	2/2 2/2 2/2 2/2 2/2 2/2 8al 5500 613 513 930	Crprt Crprt Crprt Crprt % Diff 2% 4% 8% Park Crprt Crprt Crprt	Manuf Manuf Manuf Manuf Avg % Diff 5% Style Manuf Manuf Manuf	Green Green Distance 690 Other Grn/Upd Full Upd
Adjoin Adjoin 419 865 501 418 Adjoin Parcel	Adjoins Not Not Not Not Not Papaya Tamarind Papaya Papaya Tamarind Papaya Sa Papaya Adjoins Not Not	Address 419 Papaya 865 Tamarind 501 Papaya 418 Papaya 418 Papaya s Adjusted Time \$1,828 \$3,637 -\$399 Iential Sales Address 413 Papaya 341 Loquat 1119 Pocatella	**************************************	Date Sold 7/16/2019 2/4/2019 6/15/2018 8/28/2019 GLA -\$5,090 \$4,876 \$3,878 lar Farm Ap Date Sold 7/16/2020 2/3/2020 1/5/2021	\$ales Price \$127,500 \$133,900 \$109,000 \$110,000 \$BR/BA B Price \$130,000 \$118,000 \$120,000	1986 1995 1986 1987 Park Built 2001 1985 1993	1,303 1,368 1,234 1,248 Other \$5,000 \$5,000 GBA 918 989 999	\$97.85 \$97.88 \$88.33 \$88.14 Tota \$127, \$124, \$122, \$117, \$141.61 \$141.61 \$141.61 \$119.31 \$120.12	2/2 2/2 2/2 2/2 2/2 2/2 2/2 8al 5500 613 513 930 8R/BA 2/2 2/2 2/2	Crprt Crprt Crprt Crprt % Diff 2% 4% 8% Park Crprt Crprt Crprt Crprt Crprt	Manuf Manuf Manuf Manuf Avg % Diff 5% Style Manuf Manuf Manuf	Green Green Distance 690 Other Grn/Upd Full Upd Green
Parcel 37 Adjoin A4 419 865 501 418 Adjoin Parcel 39	Adjoins Not Not Not Not Not Adjoins Not Not Adjoins Adjoins Adjoins Not Not Not Not	Address 419 Papaya 865 Tamarind 501 Papaya 418 Papaya 418 Papaya 5 Adjusted Time \$1,828 \$3,637 -\$399 Sential Sales Address 413 Papaya 341 Loquat 1119 Pocatella 1367 Barefoot	**************************************	Date Sold 7/16/2019 2/4/2019 6/15/2018 8/28/2019 GLA -\$5,090 \$4,876 \$3,878 lar Farm Ap Date Sold 7/16/2020 2/3/2020 1/5/2021	\$ales Price \$127,500 \$133,900 \$109,000 \$110,000 \$BR/BA B Price \$130,000 \$118,000 \$120,000	1986 1995 1986 1987 Park Built 2001 1985 1993	1,303 1,368 1,234 1,248 Other \$5,000 \$5,000 GBA 918 989 999	\$97.85 \$97.88 \$88.33 \$88.14 Tota \$127, \$124, \$122, \$117, \$141.61 \$141.61 \$141.61 \$119.31 \$120.12	2/2 2/2 2/2 2/2 2/2 2/2 2/2 8al 5500 613 513 930 8R/BA 2/2 2/2 2/2	Crprt Crprt Crprt Crprt % Diff 2% 4% 8% Park Crprt Crprt Crprt Crprt Crprt	Manuf Manuf Manuf Manuf Avg % Diff 5% Style Manuf Manuf Manuf Manuf	Green Green Distance 690 Other Grn/Upd Full Upd Green
Adjoin Adjoin 419 865 501 418 Adjoin Parcel 39	Adjoins Not Not Not Not Not Adjoins Not Not Adjoins Adjoins Adjoins Not Not Not Not	Address 419 Papaya 865 Tamarind 501 Papaya 418 Papaya 418 Papaya s Adjusted Time \$1,828 \$3,637 -\$399 Iential Sales Address 413 Papaya 341 Loquat 1119 Pocatella	**************************************	Date Sold 7/16/2019 2/4/2019 6/15/2018 8/28/2019 GLA -\$5,090 \$4,876 \$3,878 lar Farm Ap Date Sold 7/16/2020 2/3/2020 1/5/2021	Sales Price \$127,500 \$133,900 \$109,000 \$110,000 BR/BA FOR PRICE \$130,000 \$118,000 \$120,000 \$130,500	1986 1995 1986 1987 Park Built 2001 1985 1993	1,303 1,368 1,234 1,248 Other \$5,000 \$5,000 GBA 918 989 999	\$97.85 \$97.88 \$88.33 \$88.14 Tota \$127, \$124, \$122, \$117, \$141.61 \$141.61 \$141.61 \$119.31 \$120.12	2/2 2/2 2/2 2/2 2/2 2/2 2/2 2/2 2/2 2/2	Crprt Crprt Crprt Crprt % Diff 2% 4% 8% Park Crprt Crprt Crprt Crprt Crprt	Manuf Manuf Manuf Manuf Avg % Diff 5% Style Manuf Manuf Manuf Manuf	Green Green Distance 690 Other Grn/Upd Full Upd Green
Adjoin Adjoin Adjoin Adjoin Parcel 39	Adjoins Not Not Not Not Not Adjoins Not Not Adjoins Adjoins Adjoins Not Not Not Not Adjoins Not Not Not Adjoing Sales Adjoins Not Not Not Adjoing Sales Adjoing Sales Adjoing Sales	Address 419 Papaya 865 Tamarind 501 Papaya 418 Papaya 418 Papaya 5 Adjusted Time \$1,828 \$3,637 -\$399 Sential Sales Address 413 Papaya 341 Loquat 1119 Pocatella 1367 Barefoot	**Acres	Date Sold 7/16/2019 2/4/2019 6/15/2018 8/28/2019 GLA -\$5,090 \$4,876 \$3,878 lar Farm Ap Date Sold 7/16/2020 2/3/2020 1/5/2021 1/12/2021	Sales Price \$127,500 \$133,900 \$109,000 \$110,000 BR/BA FOR PRICE \$130,000 \$118,000 \$120,000 \$130,500	1986 1995 1986 1987 Park Built 2001 1985 1993 1987	1,303 1,368 1,234 1,248 Other \$5,000 \$5,000 GBA 918 989 999 902	\$97.85 \$97.88 \$88.33 \$88.14 Tota \$127, \$124, \$122, \$117, \$141.61 \$141.61 \$119.31 \$120.12 \$144.68	2/2 2/2 2/2 2/2 2/2 2/2 2/2 2/2 2/2 2/2	Crprt Crprt Crprt Crprt % Diff 2% 4% 8% Park Crprt Crprt Crprt Crprt Crprt Crprt	Manuf Manuf Manuf Manuf Avg % Diff 5% Style Manuf Manuf Manuf Manuf	Green Green Distance 690 Other Grn/Upd Full Upd Green Green/Upd
Adjoin	Adjoins Not Not Not Not Not Papaya Tamarind Papaya Papaya Papaya Adjoins Not	Address 419 Papaya 865 Tamarind 501 Papaya 418 Papaya 418 Papaya 5 Adjusted Time \$1,828 \$3,637 -\$399 Sential Sales Address 413 Papaya 341 Loquat 1119 Pocatella 1367 Barefoot	**Acres	Date Sold 7/16/2019 2/4/2019 6/15/2018 8/28/2019 GLA -\$5,090 \$4,876 \$3,878 lar Farm Ap Date Sold 7/16/2020 2/3/2020 1/5/2021 1/12/2021	Sales Price \$127,500 \$133,900 \$109,000 \$110,000 BR/BA FOR PRICE \$130,000 \$118,000 \$120,000 \$130,500	1986 1995 1986 1987 Park Built 2001 1985 1993 1987	1,303 1,368 1,234 1,248 Other \$5,000 \$5,000 GBA 918 989 999 902	\$97.85 \$97.88 \$88.33 \$88.14 Tota \$127, \$124, \$122, \$117, \$141.61 \$141.61 \$119.31 \$120.12 \$144.68	2/2 2/2 2/2 2/2 2/2 2/2 2/2 3/30 BR/BA 2/2 2/2 2/2 2/2 2/2 2/2	Crprt Crprt Crprt Crprt % Diff 2% 4% 8% Park Crprt Crprt Crprt Crprt Crprt Crprt	Manuf Manuf Manuf Manuf Avg % Diff 5% Style Manuf Manuf Manuf Manuf	Green Green Distance 690 Other Grn/Upd Full Upd Green Green/Upd
Parcel 37 Adjoin A419 865 501 418 Adjoin Parcel 39	Adjoins Not Not Not Not Not Not Adjoins Not Adjoins Adjoins Papaya Papaya Adjoins Not Not Not Not Not Adjoins Not Not Not Not Not Papaya Adjoins Not Not Not Not Papaya Adjoins Not Not Not Not Not Papaya	Address 419 Papaya 865 Tamarind 501 Papaya 418 Papaya 418 Papaya 5 Adjusted Time \$1,828 \$3,637 -\$399 Sential Sales Address 413 Papaya 341 Loquat 1119 Pocatella 1367 Barefoot 5 Adjusted Time	**Acres** 0.09 1	Date Sold 7/16/2019 2/4/2019 6/15/2018 8/28/2019 GLA -\$5,090 \$4,876 \$3,878 lar Farm Ap Date Sold 7/16/2020 2/3/2020 1/5/2021 1/12/2021 GLA	Sales Price \$127,500 \$133,900 \$109,000 \$110,000 BR/BA FOR PRICE \$130,000 \$118,000 \$120,000 \$130,500	1986 1995 1986 1987 Park Built 2001 1985 1993 1987	1,303 1,368 1,234 1,248 Other \$5,000 \$5,000 GBA 918 989 999 902	\$97.85 \$97.88 \$88.33 \$88.14 Tota \$127, \$124, \$122, \$117, \$141.61 \$141.61 \$119.31 \$120.12 \$144.68	2/2 2/2 2/2 2/2 2/2 2/2 2/2 3/30 BR/BA 2/2 2/2 2/2 2/2 2/2 2/2	Crprt Crprt Crprt Crprt % Diff 2% 4% 8% Park Crprt	Manuf Manuf Manuf Manuf Avg % Diff 5% Style Manuf Manuf Manuf Manuf	Green Green Distance 690 Other Grn/Upd Full Upd Green Green/Upd
Parcel 37 Adjoin A419 865 501 418 Adjoin Parcel 39 Adjoin A413 3411119	Adjoins Not Not Not Not Not Not Adjoins Not Not Adjoins Papaya Tamarind Papaya Papaya Adjoins Not Not Not Not Not Not Loquat	Address 419 Papaya 865 Tamarind 501 Papaya 418 Papaya 418 Papaya 5 Adjusted Time \$1,828 \$3,637 -\$399 Sential Sales Address 413 Papaya 341 Loquat 1119 Pocatella 1367 Barefoot 5 Adjusted Time \$1,631	**Acres** 0.09 1	Date Sold 7/16/2019 2/4/2019 6/15/2018 8/28/2019 GLA -\$5,090 \$4,876 \$3,878 lar Farm Ap Date Sold 7/16/2020 2/3/2020 1/5/2021 1/12/2021 GLA -\$6,777	Sales Price \$127,500 \$133,900 \$109,000 \$110,000 BR/BA FOR PRICE \$130,000 \$118,000 \$120,000 \$130,500	1986 1995 1986 1987 Park Built 2001 1985 1993 1987	1,303 1,368 1,234 1,248 Other \$5,000 \$5,000 GBA 918 989 999 902	\$97.85 \$97.88 \$88.33 \$88.14 Tota \$127, \$124, \$122, \$117, \$141.61 \$141.61 \$119.31 \$120.12 \$144.68	2/2 2/2 2/2 2/2 2/2 2/2 2/2 3/30 8R/BA 2/2 2/2 2/2 2/2 2/2 2/2 2/2 2/2	Crprt Crprt Crprt Crprt % Diff 2% 4% 8% Park Crprt	Manuf Manuf Manuf Manuf Manuf Avg % Diff 5% Style Manuf Manuf Manuf Manuf Manuf Manuf Manuf Manuf	Green Green Distance 690 Other Grn/Upd Full Upd Green Green/Upd
Parcel 37 Adjoin A49 865 501 418 Adjoin Parcel 39 Adjoin A413 341 1119	Adjoins Not Not Not Not Not Not Adjoins Not Not Adjoins Papaya Tamarind Papaya Papaya Papaya Adjoins Not Not Not Not Not Not Not Adjoins Not Not Not Not Papaya Papaya Adjoins Not Not Not Not Not Not Papaya Adjoins Not Not Not Not Not Not Not Papaya Adjoins Not	Address 419 Papaya 865 Tamarind 501 Papaya 418 Papaya 418 Papaya 5 Adjusted Time \$1,828 \$3,637 -\$399 Sential Sales Address 413 Papaya 341 Loquat 1119 Pocatella 1367 Barefoot 5 Adjusted Time \$1,631 -\$1,749	**Acres	Date Sold 7/16/2019 2/4/2019 6/15/2018 8/28/2019 GLA -\$5,090 \$4,876 \$3,878 lar Farm Ap Date Sold 7/16/2020 2/3/2020 1/5/2021 1/12/2021 GLA -\$6,777 -\$7,784	Sales Price \$127,500 \$133,900 \$109,000 \$110,000 BR/BA FOR PRICE \$130,000 \$118,000 \$120,000 \$130,500	1986 1995 1986 1987 Park Built 2001 1985 1993 1987	1,303 1,368 1,234 1,248 Other \$5,000 \$5,000 GBA 918 989 999 902	\$97.85 \$97.88 \$88.33 \$88.14 Tota \$127, \$124, \$122, \$117, \$141.61 \$141.61 \$119.31 \$120.12 \$144.68	2/2 2/2 2/2 2/2 2/2 2/2 2/2 3/30 8R/BA 2/2 2/2 2/2 2/2 2/2 2/2 2/2 2/2	Crprt Crprt Crprt Crprt % Diff 2% 4% 8% Park Crprt	Manuf Manuf Manuf Manuf Avg % Diff 5% Style Manuf Manuf Manuf Manuf	Green Green Distance 690 Other Grn/Upd Full Upd Green Green/Upd

Adjoi	Adjoining Residential Sales After Solar Farm Approved												
Parce	l Solar	Address	Acres	Date Sold	Sales Price	Built	GBA	\$/GLA	BR/BA	Park	Style	Other	
48	Adjoins	343 Papaya	0.09	12/17/2019	\$145,000	1986	1,508	\$96.15	3/2	Crprt	Manuf	Gn/Fc/Upd	
	Not	865 Tamarind	0.12	2/4/2019	\$133,900	1995	1,368	\$97.88	2/2	Crprt	Manuf	Green	
	Not	515 Papaya	0.09	3/22/2018	\$145,000	2005	1,376	\$105.38	3/2	Crprt	Manuf	Green	
	Not	849 Tamarind	0.15	6/26/2019	\$155,000	1997	1,716	\$90.33	3/2	Crprt	Manuf	Grn/Fnce	
Adjoi	ning Sale:	s Adjusted									Avg		
A	ddress	Time	YB	GLA	BR/BA	Park	Other	Tota	al %	6 Diff	% Diff	Distance	
343	3 Papaya							\$145,	000			690	
865	Tamarind	\$3,566	-\$6,026	\$10,963				\$142,	403	2%			
515	5 Papaya	\$7,759	-\$13,775	\$11,128				\$150,	112	-4%			
849	Tamarind	\$2,273	-\$8,525	-\$15,030			\$5,000	\$138,	717	4%			
											1%		
•	-	dential Sales		-									
	l Solar	Address			Sales Price		GBA	\$/GLA	•		Style	Other	
52	Nearby	335 Papaya	0.09	4/17/2018	\$110,000	1987	1,180	\$93.22	2/2	Crprt	Manuf	Green	
	Not	865 Tamarind		2/4/2019	\$133,900	1995	1,368	\$97.88	2/2	Crprt	Manuf	Green	
	Not	501 Papaya	0.10	6/15/2018	\$109,000	1986	1,234	\$88.33	2/2	Crprt	Manuf		
	Not	604 Puffin	0.09	10/23/2018	\$110,000	1988	1,320	\$83.33	2/2	Crprt	Manuf		
Adjoi	ning Sale:	s Adjusted									Avg		
A	ddress	Time	YB	GLA	BR/BA	Park	Other	Tota	al 9	6 Diff	% Diff	Distance	
335	5 Papaya							\$110,	000			710	
865	Tamarind	-\$3,306	-\$5,356	-\$14,721			\$0	\$110,	517	0%			
50	1 Papaya	-\$542	\$545	-\$3,816			\$5,000	\$110,	187	0%			
60	4 Puffin	-\$1,752	-\$550	-\$9,333			\$5,000	\$103,	365	6%			
											2%		

I also identified a new subdivision being developed just to the west of this solar farm called The Lakes at Sebastian Preserve. These are all canal-lot homes that are being built with homes starting at \$271,000 based on the website and closed sales showing up to \$342,000. According to Monique, the onsite broker with Holiday Builders, the solar farm is difficult to see from the lots that back up to that area and she does not anticipate any difficulty in selling those future homes or lots or any impact on the sales price. The closest home that will be built in this development will be approximately 340 feet from the nearest panel.

Based on the closed home prices in Barefoot Bay as well as the broker comments and activity at The Lakes at Sebastian Preserve, the data around this solar farm strongly indicates no negative impact on property value.

22. Matched Pair - Miami-Dade Solar Farm, Miami, FL



This project is located on 346.80 acres for a 74.5 MW facility. All of the adjoining uses are agricultural and residential. This project was built in 2019.

I considered the recent sale of Parcel 26 to the south that sold for over \$1.6 million dollars. This home is located on 4.2 acres with additional value in the palm trees according to the listing. The comparables include similar homes nearby that are all actually on larger lots and several include avocado or palm tree income as well. All of the comparables are in similar proximity to the subject and all have similar proximity to the Miami-Dade Executive airport that is located 2.5 miles to the east.

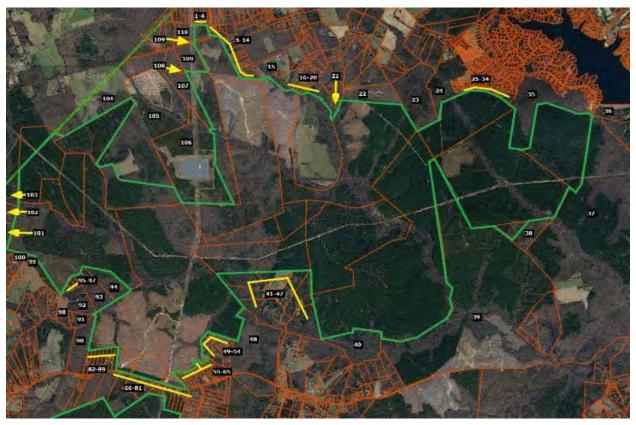
These sales are showing no impact on the value of the property from the adjoining solar farm. The landscaping is considered light.

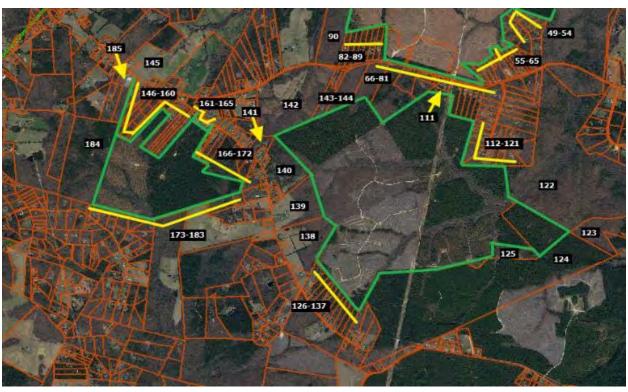
Adjoining Residential Sales After Solar Farm Approved

Parcel	Solar	Address	Acres	Date Sold	Sales Price	Built	GBA	\$/GLA	BR/BA	Park	Style	Other
26	Adjoins	13600 SW 182nd	4.20	11/5/2020	\$1,684,000	2008	6,427	\$262.02	5/5.5	3 Gar	CBS Rnch I	21/Guest
	Not	18090 SW 158th	5.73	10/8/2020	\$1,050,000	1997	3,792	\$276.90	5/4	3 Gar	CBS Rnch	
	Not	14311 SW 187th	4.70	10/22/2020	\$1,100,000	2005	3,821	\$287.88	6/5	3 Gar	CBS Rnch	Pool
	Not	17950 SW 158th	6.21	10/22/2020	\$1,730,000	2000	6,917	\$250.11	6/5.5	2 Gar	CBS Rnch	Pool

Adjoining Sales Adjusted Avg											
Address	Time	Site	YB	GLA	BR/BA	Park	Other	Total	% Diff	% Diff	Distance
13600 SW 182nd								\$1,684,000			1390
18090 SW 158th	\$2,478		\$57,750	\$583,703	\$30,000			\$1,723,930	-2%		
14311 SW 187th	\$1,298		\$16,500	\$600,178	\$10,000			\$1,727,976	-3%		
17950 SW 158th	\$2,041		\$69,200	-\$98,043		\$10,000		\$1,713,199	-2%		
										-2%	

23. Matched Pair - Spotsylvania Solar, Paytes, VA





This solar farm is being built in four phases with the area known as Site C having completed construction in November 2020 after the entire project was approved in April 2019. Site C, also known as Pleinmont 1 Solar, includes 99.6 MW located in the southeast corner of the project and shown on the maps above with adjoining parcels 111 through 144. The entire Spotsylvania project totals 617 MW on 3500 acres out of a parent tract assemblage of 6,412 acres.

I have identified three adjoining home sales that occurred during construction and development of the site in 2020.

The first is located on the north side of Site A on Orange Plank Road. The second is located on Nottoway Lane just north of Caparthin Road on the south side of Site A and east of Site C. The third is located on Post Oak Road for a home that backs up to Site C that sold in September 2020 near the completion of construction for Site C.

Spotsylvania Solar Farm

12717 Flintlock

-\$2,312

\$40,000

Solar	Address	Acres	Date Sold	Sales Price	Built	GBA	\$/GBA	BR/BA	Park	Style	Other
Adjoins	12901 Orng Plnk	5.20	8/27/2020	\$319,900	1984	1,714	\$186.64	3/2	Drive	1.5	Un Bsmt
Not	8353 Gold Dale	3.00	1/27/2021	\$415,000	2004	2,064	\$201.07	3/2	3 Gar	Ranch	
Not	6488 Southfork	7.26	9/9/2020	\$375,000	2017	1,680	\$223.21	3/2	2 Gar	1.5	Barn/Patio
Not	12717 Flintlock	0.47	12/2/2020	\$290,000	1990	1.592	\$182.16	3/2.5	Det Gar	Ranch	

Adjoining Sales Adjusted													
Address	Time	Ac/Loc	YB	GLA	BR/BA	Park	Other	Total	% Diff	Dist			
12901 Orng Plnk								\$319,900		1270			
8353 Gold Dale	-\$5,219	\$20,000	-\$41,500	-\$56,298		-\$20,000		\$311,983	2%				
6488 Southfork	-\$401	-\$20,000	-\$61,875	\$6,071		-\$15,000		\$283,796	11%				

-\$8,700 \$17,779 -\$5,000 -\$5,000

Average Diff 4%

-2%

\$326,767

Solar	Address	Acres	Date Sold	Sales Price	Built	GBA	\$/GBA	BR/BA	Park	Style	Other
Adjoins	9641 Nottoway	11.00	5/12/2020	\$449,900	2004	3,186	\$141.21	4/2.5	Garage	2-Story	Un Bsmt
Not	26123 Lafayette	1.00	8/3/2020	\$390,000	2006	3,142	\$124.12	3/3.5	Gar/DtG	2-Story	
Not	11626 Forest	5.00	8/10/2020	\$489,900	2017	3,350	\$146.24	4/3.5	2 Gar	2-Story	
Not	10304 Pny Brnch	6.00	7/27/2020	\$485,000	1998	3,076	\$157.67	4/4	2Gar/Dt2	Ranch	Fn Bsmt

Adjoining Sales Adjusted													
Address	Time	Ac/Loc	YB	GLA	BR/BA	Park	Other	Total	% Diff	Dist			
9641 Nottoway								\$449,900		1950			
26123 Lafayette	-\$2,661	\$45,000	-\$3,900	\$4,369	-\$10,000	-\$5,000		\$417,809	7%				
11626 Forest	-\$3,624		-\$31,844	-\$19,187		-\$5,000		\$430,246	4%				
10304 Pny Brnch	-\$3,030		\$14,550	\$13,875	-\$15,000	-\$15,000	-\$10,000	\$470,396	-5%				

Average Diff 2%

Solar	Address	Acres	Date Sold	Sales Price	Built	GBA	\$/GBA	BR/BA	Park	Style	Other
Adjoins	13353 Post Oak	5.20	9/21/2020	\$300,000	1992	2,400	\$125.00	4/3	Drive	2-Story	Fn Bsmt
Not	9609 Logan Hgt	5.86	7/4/2019	\$330,000	2004	2,352	\$140.31	3/2	2Gar	2-Story	
Not	12810 Catharpian	6.18	1/30/2020	\$280,000	2008	2,240	\$125.00	4/2.5	Drive	2-Story B	smt/Nd Pnt
Not	10725 Rbrt Lee	5.01	10/26/2020	\$295,000	1995	2,166	\$136.20	4/3	Gar	2-Story	Fn Bsmt

Adjoining Sales A	djusted									
Address	Time	Ac/Loc	YB	GLA	BR/BA	Park	Other	Total	% Diff	Dist
13353 Post Oak								\$300,000		1171
9609 Logan Hgt	\$12,070		-\$19,800	\$5,388		-\$15,000	\$15,000	\$327,658	-9%	
12810 Catharpian	\$5,408		-\$22,400	\$16,000	\$5,000		\$15,000	\$299,008	0%	
10725 Rbrt Lee	-\$849		-\$4,425	\$25,496		-\$10,000		\$305,222	-2%	
							Ave	erage Diff	-4%	

All three of these homes are well set back from the solar panels at distances over 1,000 feet and are well screened from the project. All three show no indication of any impact on property value.

Conclusion - SouthEast Over 5 MW

Sou	theast USA Ov	er 5 MW												
Mat	ched Pair Sum	ımary				_	Adj. Us	ses By	Acreage		1 mile	Radius (2	010-2020 Data)	
						Topo						Med.	Avg. Housing	Veg.
	Name	City	State	Acres	$\mathbf{M}\mathbf{W}$	Shift	Res	Ag	Ag/Res	Com/Ind	Pop.	Income	Unit	Buffer
1	AM Best	Goldsboro	NC	38	5.00	2	38%	0%	23%	39%	1,523	\$37,358	\$148,375	Light
2	Mulberry	Selmer	TN	160	5.00	60	13%	73%	10%	3%	467	\$40,936	\$171,746	Lt to Med
3	Leonard	Hughesville	MD	47	5.00	20	18%	75%	0%	6%	525	\$106,550	\$350,000	Light
4	Gastonia SC	Gastonia	NC	35	5.00	48	33%	0%	23%	44%	4,689	\$35,057	\$126,562	Light
5	Summit	Moyock	NC	2,034	80.00	4	4%	0%	94%	2%	382	\$79,114	\$281,731	Light
6	Tracy	Bailey	NC	50	5.00	10	29%	0%	71%	0%	312	\$43,940	\$99,219	Heavy
7	Manatee	Parrish	FL	1,180	75.00	20	2%	97%	1%	0%	48	\$75,000	\$291,667	Heavy
8	McBride	Midland	NC	627	75.00	140	12%	10%	78%	0%	398	\$63,678	\$256,306	Lt to Med
9	Mariposa	Stanley	NC	36	5.00	96	48%	0%	52%	0%	1,716	\$36,439	\$137,884	Light
10	Clarke Cnty	White Post	VA	234	20.00	70	14%	39%	46%	1%	578	\$81,022	\$374,453	Light
11	Simon	Social Circle	GA	237	30.00	71	1%	63%	36%	0%	203	\$76,155	\$269,922	Medium
12	Candace	Princeton	NC	54	5.00	22	76%	24%	0%	0%	448	\$51,002	\$107,171	Medium
13	Walker	Barhamsville	VA	485	20.00	N/A	12%	68%	20%	0%	203	\$80,773	\$320,076	Light
14	Innov 46	Hope Mills	NC	532	78.50	0	17%	83%	0%	0%	2,247	\$58,688	\$183,435	Light
15	Innov 42	Fayetteville	NC	414	71.00	0	41%	59%	0%	0%	568	\$60,037	\$276,347	Light
16	Sunfish	Willow Spring	NC	50	6.40	30	35%	35%	30%	0%	1,515	\$63,652	\$253,138	Light
17	Sappony	Stony Crk	VA	322	20.00	N/A	2%	98%	0%	0%	74	\$51,410	\$155,208	Light
18	Camden Dam	Camden	NC	50	5.00	0	17%	72%	11%	0%	403	\$84,426	\$230,288	Light
19	Grandy	Grandy	NC	121	20.00	10	55%	24%	0%	21%	949	\$50,355	\$231,408	Light
20	Champion	Pelion	SC	100	10.00	N/A	4%	70%	8%	18%	1,336	\$46,867	\$171,939	Light
21	Barefoot Bay	Barefoot Bay	FL	504	74.50	0	11%	87%	0%	3%	2,446	\$36,737	\$143,320	Lt to Med
22	Miami-Dade	Miami	FL	347	74.50	0	26%	74%	0%	0%	127	\$90,909	\$403,571	Light
23	Spotyslvania	Paytes	VA	3,500	617.00	160	37%	52%	11%	0%	74	\$120,861	\$483,333	Md to Hvy
		·		•								,	*	3
	Average			485	57.04	38	24%	48%	22%	6%	923	\$63,955	\$237,700	
	Median			234	20.00	20	17%	59%	11%	0%	467	\$60,037	\$231,408	
	High			3,500	617.00	160	76%	98%	94%	44%	4,689	\$120,861	\$483,333	
	Low			35	5.00	0	1%	0%	0%	0%	48	\$35,057	\$99,219	
												. ,	* * * * * * * * * * * * * * * * * * * *	

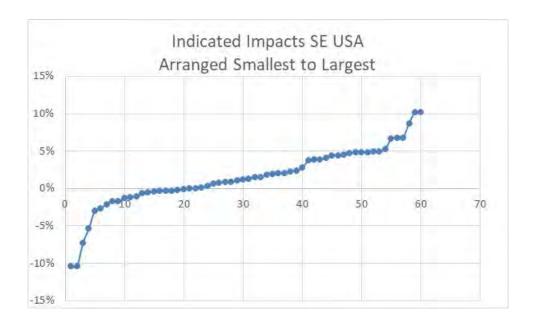
The solar farm matched pairs shown above have similar characteristics to each other in terms of population, but with several outliers showing solar farms in farm more urban areas. The median income for the population within 1 mile of a solar farm is \$60,037 with a median housing unit value of \$231,408. Most of the comparables are under \$300,000 in the home price, with \$483,333 being the high end of the set, though I have matched pairs in multiple states over \$1,000,000 adjoining solar farms. The adjoining uses show that residential and agricultural uses are the predominant adjoining uses. These figures are in line with the larger set of solar farms that I have looked at with the predominant adjoining uses being residential and agricultural and similar to the solar farm breakdown shown for Virginia and adjoining states as well as the proposed subject property.

Based on the similarity of adjoining uses and demographic data between these sites and the subject property, I consider it reasonable to compare these sites to the subject property.

I have pulled 56 matched pairs from the above referenced solar farms to provide the following summary of home sale matched pairs and land sales next to solar farms. The summary shows that the range of differences is from -10% to +10% with an average of +1% and median of +1%. This means that the average and median impact is for a slight positive impact due to adjacency to a solar farm. However, this +1 to rate is within the typical variability I would expect from real estate. I therefore conclude that this data shows no negative or positive impact due to adjacency to a solar farm

While the range is seemingly wide, the graph below clearly shows that the vast majority of the data falls between -5% and +5% and most of those are clearly in the 0 to +5% range. This data strongly supports an indication of no impact on adjoining residential uses to a solar farm.

I therefore conclude that these matched pairs support a finding of no impact on value at the subject property for the proposed project, which as proposed will include a landscaped buffer to screen adjoining residential properties.



Residential Dwelling Matched Pairs Adjoining Solar Farms

Residential Dwelli	ng Matched P	'airs Adjoi:	ning Sol					Adi Cala		Wo er
Pair Solar Farm	City	State	мw	Approx	Tax ID/Address	Date	Sale Price	Adj. Sale	% Diff	Veg. Buffer
1 AM Best	Goldsboro	NC	5	280	3600195570	Sep-13	\$250,000	11100		Light
					3600198928	Mar-14	\$250,000	\$250,000	0%	Ü
2 AM Best	Goldsboro	NC	5	280	3600195361	Sep-13	\$260,000			Light
					3600194813	Apr-14	\$258,000	\$258,000	1%	
3 AM Best	Goldsboro	NC	5	280	3600199891	Jul-14	\$250,000			Light
					3600198928	Mar-14	\$250,000	\$250,000	0%	
4 AM Best	Goldsboro	NC	5	280	3600198632	Aug-14	\$253,000			Light
					3600193710	Oct-13	\$248,000	\$248,000	2%	
5 AM Best	Goldsboro	NC	5	280	3600196656	Dec-13	\$255,000			Light
					3601105180	Dec-13	\$253,000	\$253,000	1%	
6 AM Best	Goldsboro	NC	5	280	3600182511	Feb-13	\$247,000			Light
					3600183905	Dec-12	\$240,000	\$245,000	1%	
7 AM Best	Goldsboro	NC	5	280	3600182784	Apr-13	\$245,000			Light
					3600193710	Oct-13	\$248,000	\$248,000	-1%	
8 AM Best	Goldsboro	NC	5	280	3600195361	Nov-15	\$267,500			Light
					3600195361	Sep-13	\$260,000	\$267,800	0%	
9 Mulberry	Selmer	TN	5	400	0900A011	Jul-14	\$130,000			Light
					099CA043	Feb-15	\$148,900	\$136,988	-5%	
10 Mulberry	Selmer	TN	5	400	099CA002	Jul-15	\$130,000			Light
					0990NA040	Mar-15	\$120,000	\$121,200	7%	
11 Mulberry	Selmer	TN	5	480	491 Dusty	Oct-16	\$176,000			Light
					35 April	Aug-16	\$185,000	\$178,283	-1%	
12 Mulberry	Selmer	TN	5	650	297 Country	Sep-16	\$150,000			Medium
					53 Glen	Mar-17	\$126,000	\$144,460	4%	
13 Mulberry	Selmer	TN	5	685	57 Cooper	Feb-19	\$163,000			Medium
-					191 Amelia	Aug-18	\$132,000	\$155,947	4%	
14 Leonard Rd	Hughesville	MD	5.5	230	14595 Box Elder	Feb-16	\$291,000			Light
	J				15313 Bassford Rd	Jul-16	\$329,800	\$292,760	-1%	Ü
15 Neal Hawkins	Gastonia	NC	5	225	609 Neal Hawkins	Mar-17	\$270,000			Light
					1418 N Modena	Apr-18	\$225,000	\$242,520	10%	Ü
16 Summit	Moyock	NC	80	1,060	129 Pinto	Apr-16	\$170,000			Light
	,				102 Timber	Apr-16	\$175,500	\$175,101	-3%	Ü
17 Summit	Moyock	NC	80	980	105 Pinto	Dec-16	\$206,000			Light
	•				127 Ranchland	Jun-15	\$219,900	\$198,120	4%	Ü
18 Tracy	Bailey	NC	5	780	9162 Winters	Jan-17	\$255,000			Heavy
·	2				7352 Red Fox	Jun-16	\$176,000	\$252,399	1%	
19 Manatee	Parrish	FL	75	1180	13670 Highland	Aug-18	\$255,000			Heavy
					13851 Highland	Sep-18	\$240,000	\$255,825	0%	5
20 McBride Place	Midland	NC	75	275	4380 Joyner	Nov-17	\$325,000			Medium
					3870 Elkwood	Aug-16	\$250,000	\$317,523	2%	
21 McBride Place	Midland	NC	75	505	5811 Kristi	Mar-20	\$530,000			Medium
					3915 Tania	Dec-19	\$495,000	\$504,657	5%	
22 Mariposa	Stanley	NC	5	1155	215 Mariposa	Dec-17	\$249,000			Light
					110 Airport	May-16	\$166,000	\$239,026	4%	
23 Mariposa	Stanley	NC	5	570	242 Mariposa	Sep-15	\$180,000			Light
					110 Airport	Apr-16	\$166,000	\$175,043	3%	
24 Clarke Cnty	White Post	VA	20	1230	833 Nations Spr	Jan-17	\$295,000			Light
· ·					6801 Middle	Dec-17	\$249,999	\$296,157	0%	Ü
25 Candace	Princeton	NC	5	488	499 Herring	Sep-17	\$215,000			Medium
					1795 Bay Valley	Dec-17	\$194,000	\$214,902	0%	
26 Walker	Barhamsville	VA	20	250	5241 Barham	Oct-18	\$264,000			Light
					9252 Ordinary	Jun-19	\$277,000	\$246,581	7%	_
27 AM Best	Goldsboro	NC	5	385	103 Granville Pl	Jul-18	\$265,000	,		Light
					2219 Granville	Jan-18	\$260,000	\$265,682	0%	5 -
28 AM Best	Goldsboro	NC	5	315	104 Erin	Jun-17	\$280,000			Light
					2219 Granville	Jan-18	\$265,000	\$274,390	2%	_
29 AM Best	Goldsboro	NC	5	400	2312 Granville	May-18	\$284,900	,		Light
					2219 Granville	Jan-18	\$265,000	\$273,948	4%	5 -

Residential Dwelling Matched Pairs Adjoining Solar Farms

R	esidential Dwelli	ng Matched P	airs Adjo	ining So					Ad: Cala		Wa =
ъ	air Solar Farm	City	State	мw	Approx	Tax ID/Address	Date	Sale Price	Adj. Sale	0/ D:66	Veg. Buffer
F	30 AM Best	Goldsboro	NC	5	400	2310 Granville	May-19	\$280,000	File		Light
				-		634 Friendly	Jul-19	\$267,000	\$265,291	5%	8
	31 Summit	Moyock	NC	80	570	318 Green View	Sep-19	\$357,000	,		Light
	or oummit	1110) 0011		00	0.0	336 Green View	Jan-19	\$365,000	\$340,286	5%	218111
	32 Summit	Moyock	NC	80	440	164 Ranchland	Apr-19	\$169,000	\$0.0,200		Light
	oz odminit	Moyock	110	00	110	105 Longhorn	Oct-17	\$184,500	\$186,616		Digit
	33 Summit	Moyock	NC	80	635	358 Oxford	Sep-19	\$478,000	Ψ100,010		Light
	33 Summit	Moyock	110	00	000	176 Providence	Sep-19	\$425,000	\$456,623	4%	Digitt
	34 Summit	Moyock	NC	80	970	343 Oxford	Mar-17	\$490,000	ψ130,023		Light
	5+ Summit	WOYOCK	110	00	510	218 Oxford	Apr-17	\$525,000	\$484,064	1%	Digitt
	35 Innov 46	Hope Mills	NC	78.5	435	6849 Roslin Farm	Feb-19	\$155,000	ψτοτ,υυτ		Light
	33 IIIII0V 4 0	Hope Wills	NC	70.5	733	109 Bledsoe	Jan-19	\$150,000	\$147,558	5%	Ligit
	36 Innov 42	Fayetteville	NC	71	340	2923 County Line	Feb-19	\$385,000	φ1+7,556		Light
	30 IIIII0V 42	rayettevine	NC	71	340	2109 John McMillan		\$320,000	¢270 156	2%	Ligiii
	37 Innov 42	Farrattarilla	NC	71	330		Apr-18 Jun-19		\$379,156		Timbe
	37 IIIII0V 42	Fayetteville	NC	71	330	2935 County Line		\$266,000	¢064.400		Light
	20 Came ala	Willow Come	NC	6.1	205	7031 Glynn Mill	May-18	\$255,000	\$264,422	1%	T i mla 4
	38 Sunfish	Willow Sprng	NC	6.4	205	7513 Glen Willow	Sep-17	\$185,000	#170 407		Light
	20 N 1 II 1-!	0	NO	_	145	205 Pine Burr	Dec-17	\$191,000	\$172,487	7%	T 11- 4
	39 Neal Hawkins	Gastonia	NC	5	145	611 Neal Hawkins	Jun-17	\$288,000	d074 210		Light
	40.01.1.0.4	TITL'S D	7.7.4	20	1000	1211 Still Forrest	Jul-18	\$280,000	\$274,319	5%	T . 1 .
	40 Clarke Cnty	White Post	VA	20	1230	833 Nations Spr	Aug-19	\$385,000	#200 00 <i>c</i>		Light
		a. a .				2393 Old Chapel	Aug-20	\$330,000	\$389,286	-1%	
	41 Sappony	Stony Creek	VA	20	1425	12511 Palestine	Jul-18	\$128,400	4404040		Medium
	10.0 1 5			_	2.40	6494 Rocky Branch	Nov-18	\$100,000	\$131,842	-3%	
	42 Camden Dam	Camden	NC	5	342	122 N Mill Dam	Nov-18	\$350,000			Light
						548 Trotman	May-18	\$309,000	\$352,450	-1%	
	43 Grandy	Grandy	NC	20	405	120 Par Four	Aug-19	\$315,000			Light
						116 Barefoot	Sep-20	\$290,000	\$299,584	5%	
	44 Grandy	Grandy	NC	20	477	269 Grandy	May-19	\$275,000			Light
						103 Spring Leaf	Aug-18	\$270,000	\$275,912	0%	
	45 Champion	Pelion	SC	10	505	517 Old Charleston	Aug-20	\$110,000			Light
						1429 Laurel	Feb-19	\$126,000	\$107,856	2%	
	46 Barefoot Bay	Bare foot Bay	FL	74.5	765	465 Papaya	Jul-19	\$155,000			Medium
						1132 Waterway	Jul-20	\$129,000	\$141,618	9%	
	47 Barefoot Bay	Bare foot Bay	FL	74.5	750	455 Papaya	Sep-20	\$183,500			Medium
						904 Fir	Sep-20	\$192,500	\$186,697	-2%	
	48 Barefoot Bay	Bare foot Bay	FL	74.5	690	419 Papaya	Jul-19	\$127,500			Medium
						865 Tamarind	Feb-19	\$133,900	\$124,613	2%	
	49 Barefoot Bay	Bare foot Bay	FL	74.5	690	413 Papaya	Jul-20	\$130,000			Medium
						1367 Barefoot	Jan-21	\$130,500	\$139,507	-7%	
	50 Barefoot Bay	Bare foot Bay	FL	74.5	690	343 Papaya	Dec-19	\$145,000			Light
						865 Tamarind	Feb-19	\$133,900	\$142,403	2%	
	51 Barefoot Bay	Bare foot Bay	FL	74.5	710	335 Papaya	Apr-18	\$110,000			Light
						865 Tamarind	Feb-19	\$133,900	\$110,517	0%	
	52 Miami-Dade	Miami	FL	74.5	1390	13600 SW 182nd	Nov-20	\$1,684,000			Light
						17950 SW 158th	Oct-20	\$1,730,000	\$1,713,199	-2%	
	53 Spotsylvania	Paytes	VA	617	1270	12901 Orange Plnk	Aug-20	\$319,900			Medium
						12717 Flintlock	Dec-20	\$290,000	\$326,767	-2%	
	54 Spotsylvania	Paytes	VA	617	1950	9641 Nottoway	May-20	\$449,900			Medium
						11626 Forest	Aug-20	\$489,900	\$430,246	4%	
	55 Spotsylvania	Paytes	VA	617	1171	13353 Post Oak	Sep-20	\$300,000			Heavy
						12810 Catharpin	Jan-20	\$280,000	\$299,008	0%	
	56 McBride Place	Midland	NC	75	470	5833 Kristi	Sep-20	\$625,000			Light
						4055 Dakeita	Dec-20	\$600,000	\$594,303	5%	

	Avg.		Indicat
$\mathbf{M}\mathbf{W}$	Distance		Impact
64.91	612	Average	1%
20.00	479	Median	1%
617.00	1,950	High	10%
5.00	145	Low	-10%

I have further broken down these results based on the MWs, Landscaping, and distance from panel to show the following range of findings for these different categories.

Most of the findings are for homes between 201 and 500 feet. Most of the findings are for Light landscaping screens.

Light landscaping screens are showing no impact on value at any distances, including for solar farms over $75.1~\mathrm{MW}$.

MW Range 4.4 to 10									
Landscaping	Light	Light	Light	Medium	Medium	Medium	Heavy	Heavy	Heavy
Distance	100-200	201-500	500+	100-200	201-500	500+	100-200	201-500	500+
#	1	19	2	0	1	2	0	0	1
Average	5%	2%	3%	N/A	0%	4%	N/A	N/A	1%
Median	5%	1%	3%	N/A	0%	4%	N/A	N/A	1%
High	5%	10%	4%	N/A	0%	4%	N/A	N/A	1%
Low	5%	-5%	3%	N/A	0%	4%	N/A	N/A	1%
10.1 to 30									
Landscaping	Light	Light	Light	Medium	Medium	Medium	Heavy	Heavy	Heavy
Distance	100-200	201-500	500+	100-200	201-500	500+	100-200	201-500	500+
#	0	3	2	0	0	1	0	0	0
Average	N/A	4%	-1%	N/A	N/A	-3%	N/A	N/A	N/A
Median	N/A	5%	-1%	N/A	N/A	-3%	N/A	N/A	N/A
High	N/A	7%	0%	N/A	N/A	-3%	N/A	N/A	N/A
Low	N/A	0%	-1%	N/A	N/A	-3%	N/A	N/A	N/A
30.1 to 75									
Landscaping	Light	Light	Light	Medium	Medium	Medium	Heavy	Heavy	Heavy
Distance	100-200	201-500	500+	100-200	201-500	500+	100-200	201-500	500+
#	0	2	3	0	0	4	0	0	0
Average	N/A	1%	0%	N/A	N/A	0%	N/A	N/A	N/A
Median	N/A	1%	0%	N/A	N/A	0%	N/A	N/A	N/A
High	N/A	2%	2%	N/A	N/A	9%	N/A	N/A	N/A
Low	N/A	1%	-2%	N/A	N/A	-7%	N/A	N/A	N/A
75.1+									
Landscaping	Light	Light	Light	Medium	Medium	Medium	Heavy	Heavy	Heavy
Distance	100-200	201-500	500+	100-200	201-500	500+	100-200	201-500	500+
#	0	2	5	0	0	2	0	0	1
Average	N/A	-3%	2%	N/A	N/A	1%	N/A	N/A	0%
Median	N/A	-3%	4%	N/A	N/A	1%	N/A	N/A	0%
High	N/A	5%	5%	N/A	N/A	4%	N/A	N/A	0%
Low	N/A	-10%	-3%	N/A	N/A	-2%	N/A	N/A	0%

C. Summary of National Data on Solar Farms

I have worked in 19 states related to solar farms and I have been tracking matched pairs in most of those states. On the following pages I provide a brief summary of those findings showing 37 solar farms over 5 MW studied with each one providing matched pair data supporting the findings of this report.

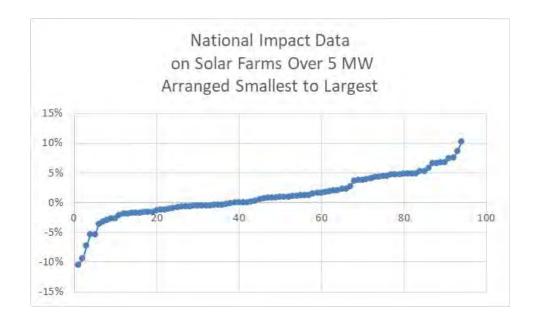
The solar farms summary is shown below with a summary of the matched pair data shown on the following page.

Mat	ched Pair Sum	ımary					Adj. Us	es By	Acreage		1 mile F	Radius (20	10-2020 Data)	
						Торо						Med.	Avg. Housing	
	Name	City	State	Acres	$\mathbf{M}\mathbf{W}$	Shift	Res	Ag	Ag/Res	Com/Ind	Popl.	Income	Unit	Veg. Buffer
1	AM Best	Goldsboro	NC	38	5.00	2	38%	0%	23%	39%	1,523	\$37,358	\$148,375	Light
2	Mulberry	Selmer	TN	160	5.00	60	13%	73%	10%	3%	467	\$40,936	\$171,746	Lt to Med
3	Leonard	Hughesville	MD	47	5.00	20	18%	75%	0%	6%		\$106,550	\$350,000	Light
4	Gastonia SC	Gastonia	NC	35	5.00	48	33%	0%	23%	44%	4,689	\$35,057	\$126,562	Light
5	Summit	Moyock	NC	2,034	80.00	4	4%	0%	94%	2%	382	\$79,114	\$281,731	Light
7	Tracy	Bailey	NC	50	5.00	10	29%	0%	71%	0%	312	\$43,940	\$99,219	Heavy
8	Manatee	Parrish	FL	1,180	75.00	20	2%	97%	1%	0%	48	\$75,000	\$291,667	Heavy
9	McBride	Midland	NC	627	75.00	140	12%	10%	78%	0%	398	\$63,678	\$256,306	Lt to Med
10	Grand Ridge	Streator	IL	160	20.00	1	8%	87%	5%	0%	96	\$70,158	\$187,037	Light
11	Dominion	Indianapolis	IN	134	8.60	20	3%	97%	0%	0%	3,774	\$61,115	\$167,515	Light
12	Mariposa	Stanley	NC	36	5.00	96	48%	0%	52%	0%	1,716	\$36,439	\$137,884	Light
13	Clarke Cnty	White Post	VA	234	20.00	70	14%	39%	46%	1%	578	\$81,022	\$374,453	Light
14	Flemington	Flemington	NJ	120	9.36	N/A	13%	50%	28%	8%	3,477	\$105,714	\$444,696	Lt to Med
15	Frenchtown	Frenchtown	NJ	139	7.90	N/A	37%	35%	29%	0%	457	\$111,562	\$515,399	Light
16	McGraw	East Windsor	NJ	95	14.00	N/A	27%	44%	0%	29%	7,684	\$78,417	\$362,428	Light
17	Tinton Falls	Tinton Falls	NJ	100	16.00	N/A	98%	0%	0%	2%	4,667	\$92,346	\$343,492	Light
18	Simon	Social Circle	GA	237	30.00	71	1%	63%	36%	0%	203	\$76,155	\$269,922	Medium
19	Candace	Princeton	NC	54	5.00	22	76%	24%	0%	0%	448	\$51,002	\$107,171	Medium
20	Walker	Barhamsville	VA	485	20.00	N/A	12%	68%	20%	0%	203	\$80,773	\$320,076	Light
21	Innov 46	Hope Mills	NC	532	78.50	0	17%	83%	0%	0%	2,247	\$58,688	\$183,435	Light
22	Innov 42	Fayetteville	NC	414	71.00	0	41%	59%	0%	0%	568	\$60,037	\$276,347	Light
23	Demille	Lapeer	MI	160	28.40	10	10%	68%	0%	22%	2,010	\$47,208	\$187,214	Light
24	Turrill	Lapeer	MI	230	19.60	10	75%	59%	0%	25%	2,390	\$46,839	\$110,361	Light
25	Sunfish	Willow Spring	NC	50	6.40	30	35%	35%	30%	0%	1,515	\$63,652	\$253,138	Light
26	Picture Rocks	Tucson	AZ	182	20.00	N/A	6%	88%	6%	0%	102	\$81,081	\$280,172	None
27	Avra Valley	Tucson	AZ	246	25.00	N/A	3%	94%	3%	0%	85	\$80,997	\$292,308	None
28	Sappony	Stony Crk	VA	322	20.00	N/A	2%	98%	0%	0%	74	\$51,410	\$155,208	Medium
29	Camden Dam	Camden	NC	50	5.00	0	17%	72%	11%	0%	403	\$84,426	\$230,288	Light
30	Grandy	Grandy	NC	121	20.00	10	55%	24%	0%	21%	949	\$50,355	\$231,408	Light
31	Champion	Pelion	SC	100	10.00	N/A	4%	70%	8%	18%	1,336	\$46,867	\$171,939	Light
32	Eddy II	Eddy	TX	93	10.00	N/A	15%	25%	58%	2%	551	\$59,627	\$139,088	Light
33	Somerset	Somerset	TX	128	10.60	N/A	5%	95%	0%	0%	1,293	\$41,574	\$135,490	Light
34	DG Amp Piqua	Piqua	OH	86	12.60	2	26%	16%	58%	0%	6,735	\$38,919	\$96,555	Light
45	Barefoot Bay		FL	504	74.50	0	11%	87%	0%	3%	2,446	\$36,737	\$143,320	Lt to Med
36	Miami-Dade	Miami	FL	347	74.50	0	26%	74%	0%	0%	127	\$90,909	\$403,571	Light
37	Spotyslvania	Paytes	VA	3,500	617.00	160	37%	52%	11%	0%	74	\$120,861	\$483,333	Med to Hvy
	Average			362	42.05	32	24%	52%	19%	6%	1,515	\$66,292	\$242,468	
	Median			150	17.80	10	16%	59%	7%	0%	560	\$62,384	\$230,848	
	High			3,500	617.00	160	98%	98%	94%	44%	7,684	\$120,861	\$515,399	
	Low			35	5.00	0	1%	0%	0%	0%	48	\$35,057	\$96,555	

From these 37 solar farms, I have derived 94 matched pairs. The matched pairs show no negative impact at distances as close as 105 feet between a solar panel and the nearest point on a home. The range of impacts is -10% to +10% with an average and median of +1%.

		Avg.		Indicated
	$\mathbf{M}\mathbf{W}$	Distance		Impact
Average	44.80	569	Average	1%
Median	14.00	400	Median	1%
High	617.00	1,950	High	10%
Low	5.00	145	Low	-10%

While the range is broad, the two charts below show the data points in range from lowest to highest. There is only 3 data points out of 94 that show a negative impact. The rest support either a finding of no impact or 9 of the data points suggest a positive impact due to adjacency to a solar farm. As discussed earlier in this report, I consider this data to strongly support a finding of no impact on value as most of the findings are within typical market variation and even within that, most are mildly positive findings.



D. Larger Solar Farms

I have also considered larger solar farms to address impacts related to larger projects. Projects have been increasing in size and most of the projects between 100 and 1000 MW are newer with little time for adjoining sales. I have included a breakdown of solar farms with 20 MW to 80 MW facilities with one 617 MW facility.

Mat	Matched Pair Summary - @20 MW And Larger										1 mile			
						Торо						Med.	Avg. Housing	Veg.
	Name	City	State	Acres	$\mathbf{M}\mathbf{W}$	Shift	Res	Ag	Ag/Res	Com/Ind	Popl.	Income	Unit	Buffer
1	Summit	Moyock	NC	2,034	80.00	4	4%	0%	94%	2%	382	\$79,114	\$281,731	Light
2	Manatee	Parrish	FL	1,180	75.00	20	2%	97%	1%	0%	48	\$75,000	\$291,667	Heavy
3	McBride	Midland	NC	627	75.00	140	12%	10%	78%	0%	398	\$63,678	\$256,306	Lt to Med
4	Grand Ridge	Streator	IL	160	20.00	1	8%	87%	5%	0%	96	\$70,158	\$187,037	Light
5	Clarke Cnty	White Post	VA	234	20.00	70	14%	39%	46%	1%	578	\$81,022	\$374,453	Light
6	Simon	Social Circle	GA	237	30.00	71	1%	63%	36%	0%	203	\$76,155	\$269,922	Medium
7	Walker	Barhamsville	VA	485	20.00	N/A	12%	68%	20%	0%	203	\$80,773	\$320,076	Light
8	Innov 46	Hope Mills	NC	532	78.50	0	17%	83%	0%	0%	2,247	\$58,688	\$183,435	Light
9	Innov 42	Fayetteville	NC	414	71.00	0	41%	59%	0%	0%	568	\$60,037	\$276,347	Light
10	Demille	Lapeer	MI	160	28.40	10	10%	68%	0%	22%	2,010	\$47,208	\$187,214	Light
11	Turrill	Lapeer	MI	230	19.60	10	75%	59%	0%	25%	2,390	\$46,839	\$110,361	Light
12	Picure Rocks	Tucson	AZ	182	20.00	N/A	6%	88%	6%	0%	102	\$81,081	\$280,172	Light
13	Avra Valley	Tucson	AZ	246	25.00	N/A	3%	94%	3%	0%	85	\$80,997	\$292,308	None
14	Sappony	Stony Crk	VA	322	20.00	N/A	2%	98%	0%	0%	74	\$51,410	\$155,208	None
15	Grandy	Grandy	NC	121	20.00	10	55%	24%	0%	21%	949	\$50,355	\$231,408	Medium
16	Barefoot Bay	Barefoot Bay	FL	504	74.50	0	11%	87%	0%	3%	2,446	\$36,737	\$143,320	Lt to Med
17	Miami-Dade	Miami	FL	347	74.50	0	26%	74%	0%	0%	127	\$90,909	\$403,571	Light
18	Spotyslvania	Paytes	VA	3,500	617.00	160	37%	52%	11%	0%	74	\$120,861	\$483,333	Med to Hvy
	Average Median High Low			640 335 3,500 121	76.03 29.20 617.00 19.60		19% 12% 75% 1%	64% 68% 98% 0%	17% 2% 94% 0%	4% 0% 25% 0%	721 293 2,446 48	\$69,501 \$72,579 \$120,861 \$36,737	\$262,659 \$273,135 \$483,333 \$110,361	

The breakdown of adjoining uses, population density, median income and housing prices for these projects are very similar to those of the larger set. The matched pairs for each of these were considered earlier and support a finding of no negative impact on the adjoining home values.

I have included a breakdown of solar farms with 50 MW to 617 MW facilities adjoining.

Mat	ched Pair Sun		Adj. Uses By Acreage					1 mile	010-2019 Data)					
						Торо						Med.	Avg. Housing	Veg.
	Name	City	State	Acres	$\mathbf{M}\mathbf{W}$	Shift	Res	Ag	Ag/Res	Com/Ind	Popl.	Income	Unit	Buffer
1	Summit	Moyock	NC	2,034	80.00	4	4%	0%	94%	2%	382	\$79,114	\$281,731	Light
2	Manatee	Parrish	FL	1,180	75.00	20	2%	97%	1%	0%	48	\$75,000	\$291,667	Heavy
3	McBride	Midland	NC	627	75.00	140	12%	10%	78%	0%	398	\$63,678	\$256,306	Lt to Med
4	Innov 46	Hope Mills	NC	532	78.50	0	17%	83%	0%	0%	2,247	\$58,688	\$183,435	Light
5	Innov 42	Fayetteville	NC	414	71.00	0	41%	59%	0%	0%	568	\$60,037	\$276,347	Light
6	Barefoot Bay	Barefoot Bay	FL	504	74.50	0	11%	87%	0%	3%	2,446	\$36,737	\$143,320	Lt to Med
7	Miami-Dade	Miami	FL	347	74.50	0	26%	74%	0%	0%	127	\$90,909	\$403,571	Light
8	Spotyslvania	Paytes	VA	3,500	617.00	160	37%	52%	11%	0%	74	\$120,861	\$483,333	Med to Hvy
	Average			1,142	143.19		19%	58%	23%	1%	786	\$73,128	\$289,964	
	Median			580	75.00		15%	67%	0%	0%	390	\$69,339	\$279,039	
	High			3,500	617.00		41%	97%	94%	3%	2,446	\$120,861	\$483,333	
	Low			347	71.00		2%	0%	0%	0%	48	\$36,737	\$143,320	

The breakdown of adjoining uses, population density, median income and housing prices for these projects are very similar to those of the larger set. The matched pairs for each of these were considered earlier and support a finding of no negative impact on the adjoining home values.

The data for these larger solar farms is shown in the SE USA and the National data breakdowns with similar landscaping, setbacks and range of impacts that fall mostly in the \pm -5% range as can be seen earlier in this report.

On the following page I show 81 projects ranging in size from 50 MW up to 1,000 MW with an average size of 111.80 MW and a median of 80 MW. The average closest distance for an adjoining home is 263 feet, while the median distance is 188 feet. The closest distance is 57 feet. The mix of adjoining uses is similar with most of the adjoining uses remaining residential or agricultural in nature. This is the list of solar farms that I have researched for possible matched pairs and not a complete list of larger solar farms in those states.

			Output	Total	Used	Avg. Dist	Closest	Adjoi	ning Us	e by Acı	re
Parcel # State	City	Name	(MW)	Acres	Acres	to home	Home	Res	Agri	Ag/R	Com
78 NC	Moyock	Summit/Ranchland	80	2034		674	360	4%	94%	0%	2%
133 MS	Hattiesburg	Hattiesburg	50	1129	479.6	650	315	35%	65%	0%	0%
179 SC	Ridgeland	Jasper	140	1600	1000	461	108	2%	85%	13%	0%
211 NC	Enfield	Chestnut	75	1428.1		1,429	210	4%	96%	0%	0%
222 VA	Chase City	Grasshopper	80	946.25				6%	87%	5%	1%
226 VA	Louisa	Belcher	88	1238.1			150	19%	53%	28%	0%
305 FL	Dade City	Mountain View	55	347.12		510	175	32%	39%	21%	8%
319 FL	Jasper	Hamilton	74.9	1268.9	537	3,596	240	5%	67%	28%	0%
336 FL	Parrish	Manatee	74.5	1180.4		1,079	625	2%	50%	1%	47%
337 FL	Arcadia	Citrus	74.5	640				0%	0%	100%	0%
338 FL	Port Charlotte	Babcock	74.5	422.61				0%	0%	100%	0%
353 VA	Oak Hall	Amazon East(ern sh		1000		645	135	8%	75%	17%	0%
364 VA	Stevensburg	Greenwood	100	2266.6	1800	788	200	8%	62%	29%	0%
368 NC	Warsaw	Warsaw	87.5	585.97	499		130	11%	66%	21%	3%
390 NC	Ellerbe	Innovative Solar 34	50	385.24	226		N/A	1%	99%	0%	0%
399 NC	Midland	McBride	74.9	974.59	627		140	12%	78%	9%	0%
400 FL	Mulberry	Alafia	51	420.35		490	105	7%	90%	3%	0%
406 VA	Clover	Foxhound	91	1311.8		885	185	5%	61%	17%	18%
410 FL	Trenton	Trenton	74.5	480		2,193	775	0%	26%	55%	19%
411 NC	Battleboro	Fern	100		960.71	1,494	220	5%	76%	19%	0%
412 MD	Goldsboro	Cherrywood	202		1073.7		200	10%	76%	13%	0%
434 NC	Conetoe	Conetoe	80	1389.9	910.6		120	5%	78%	17%	0%
440 FL	Debary	Debary	74.5	844.63	910.0	654	190	3%	27%	0%	70%
441 FL	Hawthorne	Horizon	74.5	684		057	190	3%	81%	16%	0%
484 VA	Newsoms		100	3243.9		_	_	3%	78%	17%	3%
	Stuarts Draft	Southampton		3197.4	1147			16%			7%
486 VA		Augusta	125				165		61%	16%	
491 NC	Misenheimer	Misenheimer 2018	80	740.2	687.2		130	11%	40%	22%	27%
494 VA	Shacklefords	Walnut	110	1700	1173		165	14%	72%	13%	1%
496 VA	Clover	Piney Creek	80	776.18	422		195	15%	62%	24%	0%
511 NC	Scotland Neck	American Beech	160		1807.8	-	205	2%	58%	38%	3%
514 NC	Reidsville	Williamsburg	80	802.6	507		200	25%	12%	63%	0%
517 VA	Luray	Cape	100	566.53	461		110	42%	12%	46%	0%
518 VA	Emporia	Fountain Creek	80	798.3	595		300	6%	23%	71%	0%
525 NC	Plymouth	Macadamia	484		4813.5	-	275	1%	90%	9%	0%
526 NC	Mooresboro	Broad River	50	759.8	365		70	29%	55%	16%	0%
555 FL	Mulberry	Durrance	74.5		324.65		140	3%	97%	0%	0%
560 NC	Yadkinville	Sugar	60	477	357		65	19%	39%	20%	22%
561 NC	Enfield	Halifax 80mw 2019	80	1007.6	1007.6	672	190	8%	73%	19%	0%
577 VA	Windsor	Windsor	85	564.1	564.1	572	160	9%	67%	24%	0%
579 VA	Paytes	Spotsylvania	500	6412	3500			9%	52%	11%	27%
582 NC	Salisbury	China Grove	65	428.66	324.26	438	85	58%	4%	38%	0%
583 NC	Walnut Cove	Lick Creek	50	1424	185.11	410	65	20%	64%	11%	5%
584 NC	Enfield	Sweetleaf	94	1956.3	1250	968	160	5%	63%	32%	0%
586 VA	Aylett	Sweet Sue	77	1262	576	1,617	680	7%	68%	25%	0%
593 NC	Windsor	Sumac	120	3360.6	1257.9	876	160	4%	90%	6%	0%
599 TN	Somerville	Yum Yum	147	4000	1500	1,862	330	3%	32%	64%	1%
602 GA	Waynesboro	White Oak	76.5	516.7	516.7	2,995	1,790	1%	34%	65%	0%
603 GA	Butler	Butler GA	103	2395.1	2395.1	1,534	255	2%	73%	23%	2%
604 GA	Butler	White Pine	101.2	505.94	505.94	1,044	100	1%	51%	48%	1%
605 GA	Metter	Live Oak	51	417.84	417.84	910	235	4%	72%	23%	0%
606 GA	Hazelhurst	Hazelhurst II	52.5	947.15	490.42	2,114	105	9%	64%	27%	0%
607 GA	Bainbridge	Decatur Parkway	80	781.5	781.5		450	2%	27%	22%	49%
608 GA	Leslie-DeSoto	Americus	1000	9661.2	4437		510	1%	63%	36%	0%
616 FL	Fort White	Fort White	74.5	570.5	457.2		220	12%	71%	17%	0%
621 VA	Spring Grove	Loblolly	150	2181.9	1000		110	7%	62%	31%	0%
622 VA	Scottsville	Woodridge	138	2260.9	1000		170	9%	63%	28%	0%
625 NC	Middlesex	Phobos	80	754.52	734		57	14%	75%	10%	0%
628 MI	Deerfield	Carroll Road	200		1694.8		190	12%	86%	0%	2%
633 VA	Emporia	Brunswick	150.2		1387.3		240	4%	85%	11%	0%
634 NC	Elkin	Partin	50.2		257.64		155	30%	25%	15%	30%
UST NC	PURITI	. a	50	T49.4	401.04	943	100	JU /0	43/0	10/0	JU /0

			Output	Total	Used	Avg. Dist	Closest	: Adjoir	iing Us	e by Acr	e
Parcel # State	City	Name	(MW)	Acres	Acres	to home	Home	Res	Agri	Ag/R	Com
638 GA	Dry Branch	Twiggs	200	2132.7	2132.7	_	-	10%	55%	35%	0%
639 NC	Hope Mills	Innovative Solar 46	78.5	531.87	531.87	423	125	17%	83%	0%	0%
640 NC	Hope Mills	Innovative Solar 42	71	413.99	413.99	375	135	41%	59%	0%	0%
645 NC	Stanley	Hornet	75	1499.5	858.4	663	110	30%	40%	23%	6%
650 NC	Grifton	Grifton 2	56	681.59	297.6	363	235	1%	99%	0%	0%
651 NC	Grifton	Buckleberry	52.1	367.67	361.67	913	180	5%	54%	41%	0%
657 KY	Greensburg	Horseshoe Bend	60	585.65	395	1,394	63	3%	36%	61%	0%
658 KY	Campbellsville	Flat Run	55	429.76	429.76	408	115	13%	52%	35%	0%
666 FL	Archer	Archer	74.9	636.94	636.94	638	200	43%	57%	0%	0%
667 FL	New Smyrna Be	a Pioneer Trail	74.5	1202.8	900	1,162	225	14%	61%	21%	4%
668 FL	Lake City	Sunshine Gateway	74.5	904.29	472	1,233	890	11%	80%	8%	0%
669 FL	Florahome	Coral Farms	74.5	666.54	580	1,614	765	19%	75%	7%	0%
672 VA	Appomattox	Spout Spring	60	881.12	673.37	836	335	16%	30%	46%	8%
676 TX	Stamford	Alamo 7	106.4	1663.1	1050	-	-	6%	83%	0%	11%
677 TX	Fort Stockton	RE Roserock	160	1738.2	1500	-	-	0%	100%	0%	0%
678 TX	Lamesa	Lamesa	102	914.5	655	921	170	4%	41%	11%	44%
679 TX	Lamesa	Ivory	50	706	570	716	460	0%	87%	2%	12%
680 TX	Uvalde	Alamo 5	95	830.35	800	925	740	1%	93%	6%	0%
684 NC	Waco	Brookcliff	50	671.03	671.03	560	150	7%	21%	15%	57%
689 AZ	Arlington	Mesquite	320.8	3774.5	2617	1,670	525	8%	92%	0%	0%
692 AZ	Tucson	Avalon	51	479.21	352	-	-	0%	100%	0%	0%
			81								
		Average	111.80	1422.4	968.4	1031	263	10%	62%	22%	6%
		Median	80.00	914.5	646.0	836	188	7%	64%	17%	0%
		High	1000.00	9661.2	4813.5	5210	1790	58%	100%	100%	70%
		Low	50.00	347.1	185.1	343	57	0%	0%	0%	0%

VII. Distance Between Homes and Panels

I have measured distances at matched pairs as close as 105 feet between panel and home to show no impact on value. This measurement goes from the closest point on the home to the closest solar panel. This is a strong indication that at this distance there is no impact on adjoining homes.

However, in tracking other approved solar farms across Kentucky, North Carolina and other states, I have found that it is common for there to be homes within 100 to 150 feet of solar panels. Given the visual barriers in the form of privacy fencing or landscaping, there is no sign of negative impact.

I have also tracked a number of locations where solar panels are between 50 and 100 feet of single-family homes. In these cases the landscaping is typically a double row of more mature evergreens at time of planting. There are many examples of solar farms with one or two homes closer than 100-feet, but most of the adjoining homes are further than that distance.

VIII. Topography

As shown on the summary charts for the solar farms, I have been identifying the topographic shifts across the solar farms considered. Differences in topography can impact visibility of the panels, though typically this results in distant views of panels as opposed to up close views. The topography noted for solar farms showing no impact on adjoining home values range from as much as 160-foot shifts across the project. Given that appearance is the only factor of concern and that distance plus landscape buffering typically addresses up close views, this leaves a number of potentially distant views of panels. I specifically note that in Crittenden in KY there are distant views of panels from the adjoining homes that showed no impact on value.

General rolling terrain with some distant solar panel views are showing no impact on adjoining property value.

IX. Potential Impacts During Construction

I have previously been asked by the Kentucky Siting Board about potential impacts during construction. This is not a typical question I get as any development of a site will have a certain amount of construction, whether it is for a commercial agricultural use such as large-scale poultry operations or a new residential subdivision. Construction will be temporary and consistent with other development uses of the land and in fact dust from the construction will likely be less than most other construction projects given the minimal grading. I would not anticipate any impacts on property value due to construction on the site.

I note that in the matched pairs that I have included there have been a number of home sales that happened after a solar farm was approved but before the solar farm was built showing no impact on property value. Therefore the anticipated construction had no impact as shown by that data.

X. Scope of Research

I have researched over 750 solar farms and sites on which solar farms are existing and proposed in Kentucky, Illinois, Tennessee, North Carolina, Virginia as well as other states to determine what uses are typically found in proximity with a solar farm. The data I have collected and provide in this report strongly supports the assertion that solar farms are having no negative consequences on adjoining agricultural and residential values.

Beyond these references, I have quantified the adjoining uses for a number of solar farm comparables to derive a breakdown of the adjoining uses for each solar farm. The chart below shows the breakdown of adjoining or abutting uses by total acreage.

							Closest	All Res	All Com
	Res	Ag	Res/AG	Comm	Ind	Avg Home	Home	Uses	Uses
Average	19%	53%	20%	2%	6%	887	344	91%	8%
Median	11%	56%	11%	0%	0%	708	218	100%	0%
High	100%	100%	100%	93%	98%	5,210	4,670	100%	98%
Low	0%	0%	0%	0%	0%	90	25	0%	0%

Res = Residential, Ag = Agriculture, Com = Commercial

Total Solar Farms Considered: 705

I have also included a breakdown of each solar farm by number of adjoining parcels to the solar farm rather than based on adjoining acreage. Using both factors provides a more complete picture of the neighboring properties.

nber of Parc	els Adjo	oining						
							All Res All Comm	
Res	Ag	Res/AG	Comm	Ind	Avg Home	Home	Uses	Uses
61%	24%	9%	2%	4%	887	344	93%	6%
65%	19%	5%	0%	0%	708	218	100%	0%
100%	100%	100%	60%	78%	5,210	4,670	105%	78%
0%	0%	0%	0%	0%	90	25	0%	0%
	61% 65% 100%	Res Ag 61% 24% 65% 19% 100% 100%	61% 24% 9% 65% 19% 5% 100% 100% 100%	Res Ag Res/AG Comm 61% 24% 9% 2% 65% 19% 5% 0% 100% 100% 100% 60%	Res Ag Res/AG Comm Ind 61% 24% 9% 2% 4% 65% 19% 5% 0% 0% 100% 100% 100% 60% 78%	Res Ag Res/AG Comm Ind Avg Home 61% 24% 9% 2% 4% 887 65% 19% 5% 0% 0% 708 100% 100% 60% 78% 5,210	Res Ag Res/AG Closest 61% 24% 9% 2% 4% 887 344 65% 19% 5% 0% 0% 708 218 100% 100% 100% 60% 78% 5,210 4,670	Res Ag Res/AG Closest Uses All Res Ag 61% 24% 9% 2% 4% 887 344 93% 65% 19% 5% 0% 0% 708 218 100% 100% 100% 100% 60% 78% 5,210 4,670 105%

Res = Residential, Ag = Agriculture, Com = Commercial

Total Solar Farms Considered: 705

Both of the above charts show a marked residential and agricultural adjoining use for most solar farms. Every single solar farm considered included an adjoining residential or residential/agricultural use.

XI. Specific Factors Related To Impacts on Value

I have completed a number of Impact Studies related to a variety of uses and I have found that the most common areas for impact on adjoining values typically follow a hierarchy with descending levels of potential impact. I will discuss each of these categories and how they relate to a solar farm.

- 1. Hazardous material
- 2. Odor
- 3. Noise
- 4. Traffic
- 5. Stigma
- 6. Appearance

1. Hazardous material

A solar farm presents no potential hazardous waste byproduct as part of normal operation. Any fertilizer, weed control, vehicular traffic, or construction will be significantly less than typically applied in a residential development and even most agricultural uses.

The various solar farms that I have inspected and identified in the addenda have no known environmental impacts associated with the development and operation.

2. Odor

The various solar farms that I have inspected produced no odor.

3. Noise

Whether discussing passive fixed solar panels, or single-axis trackers, there is no negative impact associated with noise from a solar farm. The transformer reportedly has a hum similar to an HVAC that can only be heard in close proximity to this transformer and the buffers on the property are sufficient to make emitted sounds inaudible from the adjoining properties. No sound is emitted from the facility at night.

The various solar farms that I have inspected were inaudible from the roadways.

4. Traffic

The solar farm will have no onsite employee's or staff. The site requires only minimal maintenance. Relative to other potential uses of the site (such as a residential subdivision), the additional traffic generated by a solar farm use on this site is insignificant.

5. Stigma

There is no stigma associated with solar farms and solar farms and people generally respond favorably towards such a use. While an individual may express concerns about proximity to a solar farm, there is no specific stigma associated with a solar farm. Stigma generally refers to things such as adult establishments, prisons, rehabilitation facilities, and so forth.

Solar panels have no associated stigma and in smaller collections are found in yards and roofs in many residential communities. Solar farms are adjoining elementary, middle and high schools as well as churches and subdivisions. I note that one of the solar farms in this report not only adjoins a church, but is actually located on land owned by the church. Solar panels on a roof are often cited as an enhancement to the property in marketing brochures.

I see no basis for an impact from stigma due to a solar farm.

6. Appearance

I note that larger solar farms using fixed or tracking panels are a passive use of the land that is in keeping with a rural/residential area. As shown below, solar farms are comparable to larger greenhouses. This is not surprising given that a greenhouse is essentially another method for collecting passive solar energy. The greenhouse use is well received in residential/rural areas and has a similar visual impact as a solar farm.







The solar panels are all less than 15 feet high, which means that the visual impact of the solar panels will be similar in height to a typical greenhouse and lower than a single story residential dwelling. Were the subject property developed with single family housing, that development would have a much greater visual impact on the surrounding area given that a two-story home with attic could be three to four times as high as these proposed panels.

Whenever you consider the impact of a proposed project on viewshed or what the adjoining owners may see from their property it is important to distinguish whether or not they have a protected viewshed or not. Enhancements for scenic vistas are often measured when considering properties that adjoin preserved open space and parks. However, adjoining land with a preferred view today conveys no guarantee that the property will continue in the current use. Any consideration of the impact of the appearance requires a consideration of the wide variety of other uses a property already has the right to be put to, which for solar farms often includes subdivision development, agricultural business buildings such as poultry, or large greenhouses and the like.

Dr. Randall Bell, MAI, PhD, and author of the book **Real Estate Damages**, Third Edition, on Page 146 "Views of bodies of water, city lights, natural settings, parks, golf courses, and other amenities are considered desirable features, particularly for residential properties." Dr. Bell continues on Page 147 that "View amenities may or may not be protected by law or regulation. It is sometimes argued that views have value only if they are protected by a view easement, a zoning ordinance, or covenants, conditions, and restrictions (CC&Rs), although such protections are relatively

uncommon as a practical matter. The market often assigns significant value to desirable views irrespective of whether or not such views are protected by law."

Dr. Bell concludes that a view enhances adjacent property, even if the adjacent property has no legal right to that view. He then discusses a "borrowed" view where a home may enjoy a good view of vacant land or property beyond with a reasonable expectation that the view might be partly or completely obstructed upon development of the adjoining land. He follows that with "This same concept applies to potentially undesirable views of a new development when the development conforms to applicable zoning and other regulations. Arguing value diminution in such cases is difficult, since the possible development of the offending property should have been known." In other words, if there is an allowable development on the site then arguing value diminution with such a development would be difficult. This further extends to developing the site with alternative uses that are less impactful on the view than currently allowed uses.

This gets back to the point that if a property has development rights and could currently be developed in such a way that removes the viewshed such as a residential subdivision, then a less intrusive use such as a solar farm that is easily screened by landscaping would not have a greater impact on the viewshed of any perceived value adjoining properties claim for viewshed. Essentially, if there are more impactful uses currently allowed, then how can you claim damages for a less impactful use.

7. Conclusion

On the basis of the factors described above, it is my professional opinion that the proposed solar farm will not negatively impact adjoining property values. The only category of impact of note is appearance, which is addressed through setbacks and landscaping buffers. The matched pair data supports that conclusion.

XII. Conclusion

The matched pair analysis shows no negative impact in home values due to abutting or adjoining a solar farm as well as no impact to abutting or adjacent vacant residential or agricultural land. The criteria that typically correlates with downward adjustments on property values such as noise, odor, and traffic all support a finding of no impact on property value.

Very similar solar farms in very similar areas have been found by hundreds of towns and counties not to have a substantial injury to abutting or adjoining properties, and many of those findings of no impact have been upheld by appellate courts. Similar solar farms have been approved adjoining agricultural uses, schools, churches, and residential developments.

I have found no difference in the mix of adjoining uses or proximity to adjoining homes based on the size of a solar farm and I have found no significant difference in the matched pair data adjoining larger solar farms versus smaller solar farms. The data in the SouthEast is consistent with the larger set of data that I have nationally, as is the more specific data located in and around Kentucky.

Based on the data and analysis in this report, it is my professional opinion that the solar farm proposed at the subject property will have no negative impact on the value of adjoining or abutting property. I note that some of the positive implications of a solar farm that have been expressed by people living next to solar farms include protection from future development of residential developments or other more intrusive uses, reduced dust, odor and chemicals from former farming operations, protection from light pollution at night, it's quiet, and there is no traffic.

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Richard C. Kirkland, Jr., MAI 9408 Northfield Court Raleigh, North Carolina 27603 Mobile (919) 414-8142 rkirkland2@gmail.com www.kirklandappraisals.com

Professional Experience	
Kirkland Appraisals, LLC, Raleigh, N.C.	2003 – Present
Commercial appraiser	
Hester & Company, Raleigh, N.C.	1006 0000
Commercial appraiser	1996 – 2003
Professional Affiliations	
MAI (Member, Appraisal Institute) designation #11796	2001
NC State Certified General Appraiser # A4359	1999
VA State Certified General Appraiser # 4001017291	
SC State Certified General Appraiser # 6209	
FL State Certified General Appraiser # RZ3950	
IL State Certified General Appraiser # 553.002633	
KY State Certified General Appraiser # 5522	
Education	
Bachelor of Arts in English, University of North Carolina, Chapel Hill	1993
Continuing Education	
Florida Appraisal Laws and Regulations	2020
Michigan Appraisal Law	2020
Uniform Standards of Professional Appraisal Practice Update	2020
Uniform Appraisal Standards for Federal Land Acquisitions (Yellow Book)	2019
The Cost Approach	2019
Income Approach Case Studies for Commercial Appraisers	2018
Introduction to Expert Witness Testimony for Appraisers	2018
Appraising Small Apartment Properties	2018
Florida Appraisal Laws and Regulations	2018 2018
Uniform Standards of Professional Appraisal Practice Update Appraisal of REO and Foreclosure Properties	2017
Appraisal of REO and Porcelosure Properties Appraisal of Self Storage Facilities	2017
Land and Site Valuation	2017
NCDOT Appraisal Principles and Procedures	2017
Uniform Standards of Professional Appraisal Practice Update	2016
Forecasting Revenue	2015
Wind Turbine Effect on Value	2015
Supervisor/Trainee Class	2015
Business Practices and Ethics	2014
Subdivision Valuation	2014
Uniform Standards of Professional Appraisal Practice Update	2014
Introduction to Vineyard and Winery Valuation	2013
Appraising Rural Residential Properties	2012

Uniform Standards of Professional Appraisal Practice Update	2012
Supervisors/Trainees	2011
Rates and Ratios: Making sense of GIMs, OARs, and DCFs	2011
Advanced Internet Search Strategies	2011
Analyzing Distressed Real Estate	2011
Uniform Standards of Professional Appraisal Practice Update	2011
Business Practices and Ethics	2011
Appraisal Curriculum Overview (2 Days – General)	2009
Appraisal Review - General	2009
Uniform Standards of Professional Appraisal Practice Update	2008
Subdivision Valuation: A Comprehensive Guide	2008
Office Building Valuation: A Contemporary Perspective	2008
Valuation of Detrimental Conditions in Real Estate	2007
The Appraisal of Small Subdivisions	2007
Uniform Standards of Professional Appraisal Practice Update	2006
Evaluating Commercial Construction	2005
Conservation Easements	2005
Uniform Standards of Professional Appraisal Practice Update	2004
Condemnation Appraising	2004
Land Valuation Adjustment Procedures	2004
Supporting Capitalization Rates	2004
Uniform Standards of Professional Appraisal Practice, C	2002
Wells and Septic Systems and Wastewater Irrigation Systems	2002
Appraisals 2002	2002
Analyzing Commercial Lease Clauses	2002
Conservation Easements	2000
Preparation for Litigation	2000
Appraisal of Nonconforming Uses	2000
Advanced Applications	2000
Highest and Best Use and Market Analysis	1999
Advanced Sales Comparison and Cost Approaches	1999
Advanced Income Capitalization	1998
Valuation of Detrimental Conditions in Real Estate	1999
Report Writing and Valuation Analysis	1999
Property Tax Values and Appeals	1997
Uniform Standards of Professional Appraisal Practice, A & B	1997
Basic Income Capitalization	1996

SAR EXHIBIT C

THIS QUITCLAIM DEED is made and entered into this Aday of Collectively, 2013 by and between LEXINGTON COAL COMPANY, LLC, a Delaware limited liability company with a mailing address of 1051 Main Street, Suite 2, Milton, WV, 25541, and LCC KENTUCKY, LLC, a Delaware limited liability company with a mailing address of 1051 Main Street, Suite 2, Milton, WV, 25541 (collectively, the "Grantors"), and TRIPLE H REAL ESTATE, LLC, a West Virginia limited liability company with a mailing address of 1149 Newmans Branch Road, Milton, WV, 25541 (the "Grantee") (the in-care of tax mailing address for the current tax year is c/o Jeffery A. Hoops, 1149 Newmans Branch Road, Milton, WV, 25541).

WITNESSETH:

That for and in consideration of the sum of Ten Dollars (\$10.00), cash in hand paid and other good and valuable considerations, the receipt and sufficiency of all of which are hereby acknowledged, the said Grantors do hereby remise, release and forever quitclaim without warranties unto the said TRIPLE H REAL ESTATE, LLC, the Grantec, all of the Grantors' right, title and interest in and to the real property listed in **Exhibit A** attached hereto and incorporated herein by reference, situate in Martin County, Kentucky.

Being, at least in part, the same property conveyed to Grantor LCC Kentucky, LLC, (i) by deed dated on or about September 30, 2004, and recorded in the Office of the Clerk of Martin County in Deed Book 155, Page 637, as corrected by that deed recorded in the Office of the Martin County Clerk at Deed Book 163, Page 263, and (ii) by deed dated on or about September 30, 2004, and recorded in the Office of the Clerk of Martin County in Deed Book 156, Page 1, and (iii) by deed dated on or about September 30, 2004, and recorded in the Office of the Clerk of Martin County in Deed Book 156, Page 71, and (iv) by grant of easement dated on or about December 17, 2007, and

{H08768111}

recorded in the Office of the Clerk of Martin County in Deed Book 166, Page 503, and (v) by deed dated on or about December 17, 2007, and recorded in the Office of the Clerk of Martin County in Deed Book 182, Page 322, , as corrected by that deed recorded in the Office of the Martin County Clerk at Deed Book 183, Page 632, and (vi) by deed dated on or about December 17, 2007, and recorded in the Office of the Clerk of Martin County in Deed Book 182, Page 326, as corrected by that deed recorded in the Office of the Martin County Clerk at Deed Book 183, Page 638, and (vii) by grant of easement dated on or about July 10, 2008, and recorded in the Office of the Clerk of Martin County in Deed Book 169, Page 502, and (viii) by deed dated on or about August 12, 2008, and recorded in the Office of the Clerk of Martin County in Deed Book 169, Page 35, as corrected by that deed recorded in the Office of the Martin County Clerk at Deed Book 173, Page 421, and (ix) by deed dated on or about November 14, 2008, and recorded in the Office of the Clerk of Martin County in Deed Book 170, Page 232, and (x) by deed dated on or about January 1, 2009, and recorded in the Office of the Clerk of Martin County in Deed Book 170, Page 519.

THIS CONVEYANCE IS MADE SUBJECT to all pertinent easements, restrictions, reservations, right-of-ways, conditions and water rights which may be a matter of record in the aforesaid Clerk's Office affecting the use of said property.

The Grantors hereby declare that the foregoing transfer is not exempt from the excise tax imposed by the State of Kentucky pursuant to KRS § 142.050, but that because the property is transferred for nominal consideration and the estimated price the property would bring in an open market and under the now prevailing market conditions between a willing seller and a willing buyer, both conversant with the property and with prevailing general price levels, is \$0, no excise tax is due.

[Remainder of page intentionally left blank; Signature and notary pages follow]

{H0876811.1}

2

IN WITNESS WHEREOF, the undersigned have caused this instrument to be executed as of

the day and year first above written.

	LEXINGTON COAL COMPANY, LLC, a Delaware limited liability company By: Lexington Coal Holdings, Inc. Its: Sole member By: Thiring A. Hops Its: President
	LCC KENTUCKY, LLC, a Delaware limited liability company By: Lexington Coal Company, LLC, sole member By: Lexington Coal Holdings, Inc., sole member By: Printed Name: Arrica A House
	Its: President
STATE OF WEST VIRGINIA,	
COUNTY OF Calull	TO-WIT:
The foregoing instrument was	acknowledged before me this 2 day of
	Patricia Delaware limited liability
company, on behalf of said company.	
My commission expires	not 5,2019
Official Seal Alegary Public, State of West Virginia Annette Haley 101 Rolling Meadows Scott Depot, WV 25560 My commission expires March 5, 2019	Notary Public 3

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MARTIN COUNTY D184 PG556

STATE OF WEST VIRGINIA,

COUNTY OF Cabell

, TO-WIT:

The foregoing instrument was acknowledged before me this day of

of Lexington Coal Holdings, Inc. on behalf of Lexington Coal Company, LLC

on behalf of LCC Kentucky, LLC, a Delaware limited liability company, on

behalf of said company.

My commission expires MACA 5, 20

[NOTARIAL SEAL]

Official Seal Public, State of West Virginia Annette Haley
101 Rolling Meadows
Scott Depot, WV 25560
My commission expires March 5, 2019

{H0876811.1}

CONSIDERATION CERTIFICATE

The consideration for the foregoing Quitclaim Deed is nominal only; the consideration

66	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,
reflected in the deed is the full consideration	paid for the property.
GRAM	TORS:
	LEXINGTON COAL COMPANY, LLC, a Delaware limited liability company By: Lexington Coal Holdings, Inc. Its: Sole member By: Printed Name: Accordance LCC KENTUCKY, LLC, a Delaware limited liability company By: Lexington Coal Company, LLC, sole member By: Lexington Coal Holdings, Inc., sole member By: Lexington Coal Holdings, Inc., sole member By: Accordance By: Ac
	Its: President
GRAM	VTEE:
	TRIPLE H REAL ESTATE, LLC, a West Virginia limited liability company
	By: Alley Palagon Printed Name: FFFFERY A. Honri Its: Manager

{110876811.1 }

5

STATE OF WEST VIRGINIA,	
COUNTY OF <u>Cabell</u> , TO-W	YIT:
The foregoing instrument was acknow	wledged before me this 20 day of
2013, by of Lexington Coal H	atricia Joops. as
	al Company, LLC, a Delaware limited liability
company, on behalf of said company.	
My commission expires March	5,2019
Con	a Stable Dos
Notary Public, State of West Virginia Annette Haley 101 Rolling Meadows Scott Depai, VV 25560 My commission expires March 5, 2019	y Public
STATE OF WEST VIRGINIA.	
COUNTY OF Callell. TO-V	'IT:
The foregoing instrument was ackno	wledged before me this and day of
2013, by of Lexington Coal From behalf of Lexing ton behalf of Lexing ton behalf of Lexing ton behalf of LCC Kentuck	oldings inc. ton Coal Company, LLC y, LLC, a Delaware limited liability company, on
behalf of said company.	
My commission expires Thank	5,2019
NOTARIAL SEAL Official Seal Notary Public, State of West Virginia Annette Haley 101 Rolling Meadows Scott Depot, WV 25560 My commission expires March 5, 2019	y Public

STATE OF WEST VIRGINIA,
COUNTY OF <u>Calull</u> , TO-WIT:
The foregoing instrument was acknowledged before me this and day of
actolier, 2013. by Jeffry Horays, as
of Triple H Real Estate, ILO, a West Virginia limited liability
company, on behalf of said company.
My commission expires March 5,0019.
Official Seal Notary Public, State of West Virginia Notary Public, State of West Virginia Notary Public Scott Depot, WV 25560 My commission: expires March 5, 2019

Zawand Cim Man

WITHOUT EXAMINATION OF TITLE by:

M. Edward Cunningham, II, Attorney at Law HUDDLESTON BOLEN LLP P.O. Box 2185, 611 Third Avenue

Huntington, WV 25722-2185

This instrument was prepared

{110876811.1 }

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Exhibit A

	Type of	Date of				
	Source	Source	Grantor Ur	nder Source	Grantee Under Source	Source Book &
County	Document	Document	Docu	<u>ment</u>	Document	Page
Martin (KY)	Deed	9/30/2004	17 West Mini	ng, Inc.	LCC Kentucky, LLC	Deed Book 155,
Name ////	C	2/44/2005	47.114 4.44		1007 1 110	Page 637
Martin (KY)		3/11/2006	17 West Mini	ng, Inc.	LCC Kentucky, LLC	Deed Book 163,
	Deed	- /				Page 263
Martin (KY)	Deed	9/30/2004	East Kentucky	/ Energy	LCC Kentucky, LLC	Deed Book 156,
			Corporation			Page 1
Martin (KY)	Deed	9/30/2004	HNR Mining,	Inc.	LCC Kentucky, LLC	Deed Book 156, Page 71
Martin (KY)	Easement	12/17/2007	Kenneth B. Ju	de and Dolly	LCC Kentucky, LLC	Deed Book 166,
			J. Jude	,	••	Page 503
Martin (KY)	Deed	12/17/2007	Kenneth B. Ju	de and Dolly	LCC Kentucky, LLC	Deed Book 182,
, ,		,	J. Jude, and A		,,	Page 322
			•	0 80 6 00 1		
Martin (KY)	Corrective	7/15/2013	Kenneth B. Ju	de and Dolly	LCC Kentucky, LLC	Deed Book 183,
	Deed		J. Jude, and A		,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	Page 632
				,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,		8
Martin (KY)	Deed	12/17/2007	Kenneth B. Ju	de and Dolly	LCC Kentucky, LLC	Deed Book 182,
			J. Jude			Page 326
Martin (KY)	Corrective	7/15/2013	Kenneth B. Ju	de and Dolly	LCC Kentucky, LLC	Deed Book 183,
	Deed		J. Jude			Page 638
Martin (KY)	Easement	7/10/2008	Kenneth B. Ju	de and Dolly	LCC Kentucky, LLC	Deed Book 169,
			J. Jude, and A	ndy Jude		Page 502
						1000
Martin (KY)	Deed	8/12/2008	Martin Count	y Coal	LCC Kentucky, LLC	Deed Book 169,
			Corporation			Page 35
Martin (KY)	Corrective	12/2/2009	Martin Count	y Coal	LCC Kentucky, LLC	Deed Book 173,
	Deed		Corporation			Page 421
Martin (KY)	Deed	11/14/2008	Ruby Jean Sco	ott and Henry	LCC Kentucky, LLC	Deed Book 170,
			Scott, Earnes	t Scott and		Page 232
			Carlenna Sco			
			Scott			
Martin (KY)	Deed	1/27/2009	Helen Moore	and Claudia	LCC Kentucky, LLC	Deed Book 170,
, , ,			Moore		,,	Page 519
Excepting a	nd Reserving tl	ne following	outconveyand	es, to the exte	ent applicable:	
Martin (KY)			LCC Kentucky		Gabe Lowe and Irene	Deed Book 157,
, ,		. ·	i		Lowe	Page 429
Martin (KY)	Deed	4/4/2005	LCC Kentucky	, LLC	Glen T. Howard and	Deed Book 157,
			1	N. 1970	Orgie L. Howard	Page 677

			2027		
Martin (KY) Deed	5/9/2006	LCC Kentucky,	LLC	Pontiki Coal, LLC	Deed Book 162,
					Page 21
Martin (KY) Deed	12/17/2007 I	LCC Kentucky,	LLC	Kenneth B. Jude and	Deed Book 182,
				Dolly J. Jude, and Andy	Page 314
				Jude	
Martin (KY) Deed	12/17/2007	LCC Kentucky,	LLC	Kenneth B. Jude and	Deed Book 182,
				Dolly J. Jude	Page 318
Martin (KY) Deed	3/18/2008 (LCC Kentucky,	LLC	ICG Natural Resources,	Deed Book 167,
				LLC	Page 439
Martin (KY) Deed	5/23/2008	LCC Kentucky,	LLC	Bonnie Melissa Jude	Deed Book 168,
					Page 120
Martin (KY) Deed	7/8/2008	LCC Kentucky,	LLC	Kenneth B. Jude and	Deed Book 168,
				Dolly J. Jude	Page 458
Martin (KY) Deed	7/8/2008 1	LCC Kentucky,	LLC	Kenneth B. Jude and	Deed Book 168,
				Andy Jude	Page 463
Martin (KY) Deed	5/25/2010	LCC Kentucky,	LLC	Jackie Lee Scott and	Deed Book 174,
and the second s			200 - 1, 200	Laura M. Scott	Page 606
Martin (KY) Deed	7/17/2013	LCC Kentucky,	LLC	Paul L. Fletcher	Deed Book 183,
					Page 672

DOCUMENT NO: 76108
RECORDE D: October 29,2013 08:26:00 AM
TUTAL FEES: \$35.00
TRANSFER TAX: \$0.00
COUNTY CLERK: CAROL SUE MILLS
DEPUTY CLERK: RHONDA QUILLEN
COUNTY: MARTIN COUNTY

BOOK: D184 PAGES: 553 - 561

SPECIAL CORPORATE WARRANTY DEEL

265

17 WEST MINING, INC. (successor-in-interest to and/or f/k/a and/or d/b/a Martiki Coal Corporation), a Delaware corporation, with offices at 2000 Ashland Drive, Ashland, Kentucky, 41101 ("GRANTOR"), for no or nominal cash consideration and certain obligations to be assumed pursuant to and in furtherance of the obligation of GRANTOR to convey certain properties to LCC KENTUCKY, LLC, a Delaware limited liability company, with offices at 2000 Ashland Drive, Ashland, Kentucky, 41101, ("GRANTEE"), in accordance with that certain Asset Purchase Agreement, dated August 17, 2004 between GRANTOR, certain of its affiliated companies, and GRANTEE (as the same may be hereafter amended or supplemented, the "Asset Purchase Agreement"), and other valuable consideration, the receipt and sufficiency whereof is hereby acknowledged, CONVEYS and SPECIALLY WARRANTS, TO THE LIMITED EXTENT HEREINAFTER SET FORTH, unto GRANTEE, effective as of __, 2004, all of the right, title and interest of GRANTOR in and to the properties more particularly identified and set forth on Exhibit A attached hereto and made a part hereof, together with any improvements thereon and the appurtenances thereunto belonging, all of such property lying and being in Martin County, Kentucky. The transfer of the properties covered hereby are subject to the terms of the Asset Purchase Agreement and has been approved by Order Pursuant to 11 U.S.C. §§ 105(A), 362, 363, 365, 1123, and 1146(c) and Fed. R. Bankr. P. 2002, 6004, 6006, and 9014: (A) Approving Asset Purchase Agreements, (B) Authorizing Sale of Substantially All Assets Free and Clear of All Liens, Claims, Interests, and Other Encumbrances, and (C) Authorizing Assumption and Assignment of Certain Agreements entered on September 16, 2004, by the United States Bankruptcy Court for the Eastern District of Kentucky, Ashland Division, in the Chapter 11 proceeding styled In Re: Horizon Natural

Resources Company, et al. (including Grantor) (a copy of which is attached hereto and made a part hereof as Exhibit B), such proceedings being jointly administered under Case No. 02-14261 (the "Horizon Bankruptcy Proceedings").

The properties and conveyances set forth on Exhibit C attached hereto and made a part hereof are excepted and excluded from the properties conveyed by this Deed and from GRANTOR'S covenant of special warranty herein contained.

To the extent that any of the conveyed properties were acquired prior to the date that GRANTOR was acquired by Horizon Natural Resources Company or its subsidiaries (the "Grantor Acquisition Date"), this conveyance is made and accepted SUBJECT TO any and all matters affecting title prior to the Grantor Acquisition Date, and GRANTOR'S covenant of special warranty contained herein is limited to the period of time existing on and after the Grantor Acquisition Date.

GRANTEE assumes and agrees to pay all taxes and assessments relating to the conveyed properties as of the date of closing and thereafter, regardless of when invoiced.

Except for (i) any and all matters which appear of record or as are evident on the ground relating to such properties, (ii) governmental laws, ordinances and regulations affecting the conveyed properties, and (iii) the taxes described in the preceding paragraph assumed by GRANTEE, GRANTOR warrants title against liens and encumbrances created by, through or in behalf of GRANTOR, and not otherwise.

This conveyance is further made and accepted upon the following covenants, which shall be binding upon and enforceable against **GRANTEE** and **GRANTEE**'s successors and assigns, and shall be deemed covenants running with the land:

- 1. GRANTEE acknowledges that the within conveyed properties have been held for mining or mining related purposes and agrees that no claim shall ever be asserted against GRANTOR, or any company or entity presently or formerly associated with or operating under GRANTOR, for damages, injunctive relief or regulatory relief arising directly or indirectly out of any surface or subsurface condition or occurrence, known or unknown, now existing or hereafter occurring or discovered and whether or not such condition or occurrence arises out of or is the result of mining related activities on the within conveyed properties or other properties;
- Between GRANTOR and GRANTEE, GRANTEE assumes all risk and responsibility for any injuries or damages sustained by any person or to any property, in whole or in part, resulting from, arising out of, or in any way connected with the possession or use of the property by GRANTEE;
- GRANTOR does not warrant or represent subjacent or lateral support of the surface or subsurface of the properties;
- 4. GRANTOR does not warrant or represent that the properties are safe, habitable or otherwise suitable for the purposes for which they are intended to be used by GRANTEE or for any other purpose whatsoever. GRANTEE represents that GRANTEE has inspected the properties and agrees to accept the same "as is", "where is"; and
- 5. To the extent that any of the conveyed properties were acquired by GRANTOR from Cyprus Amax Coal Company or one of its subsidiaries, this conveyance is made and accepted SUBJECT TO the requirement of GRANTOR or one of its current or former affiliates, and in turn GRANTEE, to pay a Production

Royalty on all Coal or Coal Components, as a covenant running with the land, and to otherwise fulfill all of the other obligations to RAG Royalty Company (as successor in interest to Cyprus Amax Royalty Company by name change effective June 30, 1999) or its affiliates, all as more particularly set forth in that certain Royalty Deed dated June 1, 1998, from Cyprus Cumberland Coal Corporation to Cyprus Amax Royalty Company, and Section 5.10 of that certain Stock Purchase and Sale Agreement dated May 28, 1998, between Cyprus Amax Coal Company and AEI Holding Company, Inc., said Section 5.10 addressing offsetting payments to the same obligations as set forth in the above referenced Royalty Deeds. GRANTEE, by its signature below, (i) agrees to indemnify and hold GRANTOR and its successors and assigns harmless from any liability for obligations owed to RAG Royalty Company or its affiliates under the referenced Royalty Deeds and said Section 5.10 relating to the property covered hereby; and (ii) agrees to report to GRANTOR on a monthly basis, as and when Coal is mined from the property covered hereby, the number of tons of Coal so mined and the permit number covering the area from which such Coal is mined.

We, the undersigned GRANTOR and GRANTEE, do hereby certify, pursuant to KRS

Chapter 382, (a) that the consideration reflected in this Deed is the full consideration for the properties and assets transferred pursuant to the Asset Purchase Agreement, (b) that this Deed is made pursuant to Orders of the United States Bankruptcy Court for the Eastern District of Kentucky, Ashland Division, as referenced hereinabove and (c) that the estimated fair cash value of the surface interest in the properties conveyed hereby is

Two million three hundred marks were Dollars (\$2,391,500) or more, and is reflected in

4

the current assessments for such properties maintained in the records of the Property Valuation

Administrator of Martin County, Kentucky, and the estimated fair cash value of the mineral interest in the properties conveyed hereby is two howers fair was thousand. Dollars (\$ 249,050) or more, and is reflected in the current assessments for such properties maintained in the records of the Kentucky Revenue Cabinet, which assessments are hereby incorporated by reference. This conveyance is not subject to transfer tax pursuant to Section 1146 of the U.S. Bankruptcy Code, which provides that the execution and delivery of any instrument of transfer shall not be taxed under any law imposing a transfer tax, stamp tax or similar tax. We further certify our understanding that falsification of the stated consideration or sale price of the properties is a Class D felony, subject to one to five years imprisonment and fines up to \$10,000.00.

The undersigned person executing this Deed on behalf of the GRANTOR represents and certifies that he is a duly elected officer of GRANTOR and has been fully empowered by proper resolution of the Board of Directors of GRANTOR to execute and deliver this Deed; that GRANTOR has full corporate capacity to convey the real estate described herein; and that all necessary corporate action for the making of such conveyance has been taken and done.

[REMAINDER OF PAGE INTENTIONALLY LEFT BLANK]

IN WITNESS WHEREOF, GRA	ANTOR and GRANTEE have caused this instrumen
to be executed and their seals to be affixed	d this [] day of [], 2004.
	17 WEST MINING, INC. (successor-in-interest to and/or f/k/a and/or d/b/a Martiki Coal Corporation) By: Its: ("GRANTOR")
	LCC KENTUCKY, LLC
	Its: Yesident ("GRANTEE")

STATE OF NEW YORK	
COUNTY OF NEW YORK	
The foregoing instrument was subscribed day of September, 2004, by me to be the President of LCC K on behalf of said company.	d, sworn to and acknowledged before me this Derived T. GER., known to entucky, LLC, a Delaware corporation, for and
NOT	Bris R. Donner
My Commission Expires: NOTARY PI	NIA R. HARVEY UBLIC, State of New York . 01HA8105023 d in New York County Expires Fabruary 2, 2008
STATE OF New York	
COUNTY OF New York	
The foregoing instrument was subscribe and day of <u>September</u> , 2004, by me to be the <u>Secretary</u> of 17 West M and/or d/b/a Martiki Coal Corporation), a Kercompany.	d, sworn to and acknowledged before me thi Daniel L. Stickler, known to Aining, Inc. (successor-in-interest to and/or f/k/ ntucky corporation, for and on behalf of sain
NO	Mario lua_
My Commission Expires: — NO. 0	RIGIE TUAN LIG. State of New York 1705022149 in Queene County xpires Jan. 3, 20_06
THIS INSTRUMENT PREPARED BY:	
Warren J Hoffmann FROSE BROWN TODD LLC 250 West Main Street Suite 2700 Lexington, Kentucky 40507-1749 (859) 231-0000	AFTER RECORDING MAIL TO: CHICAGO TITLE INSURANCE CO. 171 N. CLARK ST. MLC: 04SP CHICAGO, IL 60601 ATTN: LILIA RODRIGUEZ

Lexlibrary 243160v.1

EXHIBIT A

The properties being conveyed by this instrument are the same properties subject to the deed(s) of conveyance described in this <u>Exhibit A</u> and are the same properties previously conveyed to Grantor by the grantor(s) identified in the charts in this <u>Exhibit A</u>, subject to those conveyances set forth on <u>Exhibit C</u>.

LLC-KY-D-1

EXHIBIT A

CONTRACT	CONTRACT TYPE	GRANTEE	GRANTOR	CTY	ST	DATE OF DEED	воок	PAGE	DOC
MAR 151-D	Surface Deed	17 West Mining, Inc. (160)	Bert Maynard Heirs	Martin	KY	09/08/1977	82	37	
MAR-1-D	Surface Doed	17 West fixning, Inc. (160)	Blackburn, Gordie, Etal	Martin	KY	01/10/1974	72	472	
MAR-91-1-D	Surface Deed	17 West Mining, Inc. (169)	Blackburn, John & Alice	Martin	ку	09/14/1974	74	488	
MAR-137-D	Surface Deed	17 West kining, Inc. (160)	Blackburn, Vadis & Kolhryn	Martin	KY	05/06/1978	78	636	
MAR-2-D	Surface Deed	17 West Mining, Inc. (160)	Blackburn, Wade & Virgie	Martin	KY	01/04/1974	72	433	
MAR-G9-D	Surface Deed	17 West Mining, Inc. (160)	Booker Staten Heirs	Martin	KY	03/28/1974	73	316	
MAR-194-D	Surface Deed	17 West Mining, Inc. (160)	Booth, Franklin & Betty	Martin -	KY	07/06/1994	119	647	
MAR-25-D	Surface Deed	17 West Mining, Inc. (180)	Doyd Howell, Et Al	Martin	KY	10/24/1974	74	743	
LA-098-463-D	Surface Deed	17 West Mining, Inc. (160)	Burgett, John & Fannie Taylor Heirs	Martin	KY	07/18/2001	144	214	
MAR-4-D	Surface Deed	17 West Mining, Inc. (160)	Cline, Johnnie & Oretha	Martin	KY	03/03/1974	73	327	
MAR-5-D	Surface Doed	17 West Mining, Inc. (160)	Cline, Paul & Delores	Martin	KY	03/18/1974	73	195	
MAR-6-D	Surface Deed	17 West Mining, Inc. (160)	Cline, Walker & Victoria	Martin	KY	03/19/1974	73	197	
MAR-193-D	Surface Deed	17 West Mining, Inc. (160)	Collins, Carmel & Kathleen	Manin	KY	0 ///2/1994	119	641	
MAR-162-D	Surface Deed	17 West I kning, Inc. (160)	Collins, Mary	Martin	KY	06/01/1979	85	603	
MAR-32-D	Surface Deed	17 West Mining, Inc. (160)	Dave Jude Heirs	Martin	KY	12.04.1973	72	264	
MAR-187-D	Surface Deed	17 West Mining, Inc. (160)	Davis, Paul & Mattle Et Al	Martin	KY	12/03/1993	117	404	
MAR-149-3-D	Surface Deco	17 West Mining, Inc. (160)	Dials, Samuel & Avoneil	Martin	KY	09/03/1977	82	19	
MAR-149-D	Surface Deed	17 West Mining, Inc. (169)	Dials, Wills & Janie	Martin	KY	09/02/1977	52	22	
MAR-45-1-D	Surface Deed	17 West Ming, Inc. (160)	Dillon, Linda & Donald	Marlin	КУ	04/21/1980	87	326	
MAR-8-D	Surface Deed	17 Wast Mining, Inc. (160)	Duncan, George & Mary	Martin	KY	02/09/1974	72	729	
MAR-7-D	Surface Deed	17 West Mining, Inc. (160)	Duncan, George Jr & Do⊮e	Martin	KY	07/03/1974	74	102	
MAR-178-D	Surface Deed	17 West Mining, Inc. (160)	Elmer Jude Heirs	Martin	KY	12/11/1981	90	689	
MAR-184-D	Surface Deed	17 Wast Mining, Inc. (160)	Endicott Mobile Homes, tnc.	Martin	кү	09/27/1983	93	75a	
MAR-146-D	Surface Deed	17 West Mining, Inc. (160)	Endicott, Gary & Diana	Martin	KY	07/20/1977	61	686	
MAR-45-D	Cool/Mineral Deed	17 West Mining, Inc. (160)	Fields & Fairchild	Martin	кү	10/30/1975	77	225	
MAR-181-D	Surface Deed	17 West Mining, Inc. (160)	Fields, Ernest El Al	Martin	KY	04/19/1983	92	682- 683	
MAR-88-D	Surface Deed	17 Wesl Mining, Inc. (160)	Fields, John E. El Al	Martin	KY	07/23/1974	74	198	

CONTRACT #	CONTRACT TYPE	GRANTEE	GRANTOR	CTY	ST	DATE OF DEED	воок	PAGE	DOC	_
MAR-9-D	Surface Deed	17 West Mining, Inc. (160)	Fields, Vardie & Nellie	Martin	KY	12/13/1973	72	308		
MAR-56-D	Surface Deed	17 West Mining, Inc. (180)	Flam Moore Heirs	Marlin	KY	01/19/1974	72	555		
MAR-22-D	Surface Doed	17 West Mining, Inc. (160)	Flatcher, Alex & Jan Et Al	Martin	кү	02/15/1983	92	174- 176		
MAR-202-D	Surface Deed	17 West Mining, Inc. (160)	Fletcher, Alice	Martin	ку	12/16/1993	120	38		
MAR-11-D	Surface Deed	17 West Mining, Inc. (160)	Flotcher, Elias & Ruby	Martin	KY	03/18/1974	73	193		-
MAR-12-D	Surface Dead	17 West Mining, Inc. (160)	Fletcher, Floyd & Dencie	Martin	KY	01/22/1974	. 72	585		
MAR-13-D	Surface Deed	17 West Mining, Inc. (160)	Fletcher, Floyd & Dencie	Martin	KY	03/27/1974	73	295		
MAR-89-D	Surface Deed	17 West Mining, Inc. (160)	Flatcher, Floyd & Dencie	Martin	ку	07/13/1974	74	165		
MAR-93-D	Surface Deed	17 West Mning, Inc. (160)	Fletcher, Frank & Olga	Martin	кү	01/30/1974	72	65ā		
MAR-180-D	Surface Deed	17 West Mining, Inc. (160)	Fletcher, Frank & Olga	Martin	KY	05/04/1982	90A	1185		
MAR-15-D	Surface Deed	17 West Mining, Inc. (160)	Fletcher, Issac J & Hazel	Martin	KY	04/17/1974	73	474		
MAR-183-D	Surface Dead	17 West Mining, Inc. (160)	Fletcher, Joe & Edna El Al	Martin	ку	06/14/1983	93	274- 277		
MAR-201-D	Surface Deed	17 West Mining, Inc. (160)	Fletcher, Joey & Connie	Martin	KY	12/16/1993	120	41		
MAR-135-D	Surface Deed	17 West Mining, Inc. (160)	Fletcher, Johnny & Theima	Martin	KY	01/17/1976	77	777		
MAR-89-2-D	Surface Deed	17 West Mining, Inc. (160)	Fleicher, Ked & Elzva	Martin	КУ	07/24/1974	74	212		
MAR-17-D	Surface Deed	17 West Mining, Inc. (160)	Fietcher, Richard & Polly	Manin	KY	02/02/1974	72	675		
MAR-18-D	Surface Deed	17 West Mining, Inc. (160)	Fletcher, Robert & Elzava	Martin	KY	01/15/1974	72	513		
MAR-19-D	Surface Deed	17 West Mining, Inc. (160)	Flatcher, Robert & Susie	Martin	KY	01/15/1974	72	511		
MAR-20-D	Surface Deed	17 Wast Mining, Inc. (160)	Fletcher, Shadle & Lizzie	Martin	KY	03/12/1974	73	138		
MAR-100-D	Surface Deed	17 West Mining, Inc. (160)	Fletcher, Shadle & Ruby	Martin	KY	03/09/1974	73	113		
MAR-16-D	Surface Deed	17 West Mining, Inc. (160)	Fleicher, T.J. & Liddle	Martin	KY	12/15/1973	72	324		
MAR-89-3-D	Surface Deed	17 West Mining, Inc. (160)	Fletcher, Virgil & Mabel	Marlin	кү	01/04/1974	72	810		
MAR-24-D	Surface Deed	17 West Mining, Inc. (160)	Fluty, Richard & Ruth	Martin	KY	04/10/1974	73	422		
MAR-213-D	Surface Deed	17 West Mining, Inc. (160)	Goble, Lee & Shelby	Martin	ку	12/16/1993	120	25		
MAR-106-D	Surface Deed	17 West Mining, Inc. (160)	Green, Lois	Martin	KY	08/02/1974	74	258		
MAR-111-D	Surface Deed	17 West Mining, Inc. (160)	Gus & Minnie Kirk Holrs	Martin	ку	05/16/1975	78	69		
MAR-206-D	Surface Deed	17 West Mining, Inc. (160)	Hale, Aaron & Gladys	Martin	KY	06/09/1995	123	116		
MAR-84-D	Surface Deed	17 West Mining, Inc. (160)	Hale, Arthur & Opal	Marlın	KY	08/02/1974	74	260	2	
									2	

CONTRACT	CONTRACT TYPE	GRANTEE	GRANTOR	СТҮ	ST	DATE OF DEED	воок	PAGE	DOC
MAR-105-D	Surface Deed	17 West Mining, Inc. (160)	Hale, Arthur Jr. & Charily	Martin	KY	08/02/1974	74	262	
MAR-212-D	Surface Deed	17 West Mining, Inc. (160)	Hale, Damascus & Louise	Martin	KY	02/04/1994	119	658	
MAR-210-D	Surface Deed	17 West Mining, Inc. (160)	Hale, Doris	Martin	KY	05/11/1995	122	204	
MAR-195-D	Surface Deed	17 West Mining, Inc. (160)	Hale, Ernesi & Florence	Martin	KY	G5/15/1095	123	112	
MAR-197 D	Surface Deed	17 West Mining, Inc. (160)	Hale, John P. Et Al	Martin	KY	05/05/1995	123	133	
MAR-87-D	Surface Deed	17 West Mining, Inc. (160)	Hole, Julius & Mary	Martin	KY	08/05/1974	74	285	
MAR-709-D	Surface Doed	17 West Mining, Inc. (160)	Hale, Tommy	Martin	m	05/11/1995	122	208	
MAR-124-D	Surface Deed	17 West Mining, Inc. (160)	Harvey Muncy Heirs	Martin	KY	05/05/1975	76	56	
MAR-118-D	Surface Deed	17 West Mining, Inc. (160)	Hensley, Frank & Elsa	Martin	KY	07/18/1975	76	423	
MAR-179-D	Surface Deud	17 West klining, Inc. (160)	Howard, Ben El Al	Martin	KY	10/01/1984	96	346- 356	
MAR-156-D	Surface Deed	17 West Mining, Inc. (160)	Howard, Clinton, Et /4	Martin	KY	00/25/1978	82	202	
MAR-192-D	Surface Deed	17 West Mining, Inc. (160)	Howard, David & Gracie	Martin	KY	06/29/1994	119	637	
MAR-157-D	Surface Deed	17 West Mining, Inc. (160)	Howard, Edward L. & Grace	Martin	KY	03/25/1978	83	200	
MAR-190-D	Surface Dead	17 West Mining, Inc. (160)	Howard, John E.	Martin	KY	01/26/1996	124	114	
MAR-117-D	Surface Deed	17 West Wining, Inc. (160)	Howard, John E. & Loretta	Martin	KY	06/17/1975	76	281	
MAR-158-1-D	Coal/Mineral Deed	17 West Mining, Inc. (160)	Howard, Lacy & Victoria	Martin	KY	10/25/1977	82	299	
MAR-55-D	Surface Deed	17 Wast Mining, Inc (160)	Howard, Mary Et Al	Martin	KY	03/14/1974	73	164	
MAR-149-1-D	Coal/Mineral Dead	17 West Mining, Inc. (160)	Howard, P.H. & Dollie Et Al	Martin	KY	11/09/1977	82	347	
MAR-211-D	Surface Deed	17 West Mining, Inc. (160)	Howard, Sandance	Martin	KY	05/30/1995	123	136	
MAR-90-D	Surface Deed	17 West Mining, Inc. (160)	Howell, Jonah & Neitle	Marlin	KY	10/08/1973	71	836	
MAR-110-D	Surface Deed	17 West Mining, Inc. (180)	James D. Moore Heirs	Martin	KY	02/22/1975	75	525	
MAR-167-D	Surface Deed	17 West Mining, Inc. (160)	Jarreil, Isaac & Diana	Martin	KY	07/12/1979	56	1	
MAR-150-D	Surface Deed	17 Wast Mining, Inc. (160)	John Juda Heirs	Martin	KY	11/05/1977	82	326	
MAR-52-D	Surface Deed	17 West Mining, Inc. (160)	John Maynard Heirs	Martin	KY	04/09/1974	73	427	
MAR-145-D	Fee Deed	17 West Mining, Inc. (150)	Joseph Wilson Heirs	Martia	KY	G3/07/1977	80	765	
MAR-26-D	Surface Deed	17 West Mining, Inc. (160)	Jude, Albert & Christina	Martin	KY	03'25/1974	73	274	
MAR-101-D	Surface Doed	17 West Mining, Inc. (160)	Jude, Betty Jo	Martin	KY	03/14/1974	73	148	
MAP-95-D	Surface Deed	17 West Mining, Inc. (160)	Judo, Clifford & Juanita	Martin	KY	02/06/1974	72	702	3



CONTRACT #	CONTRACT TYPE	GRANTEE	GRANTOR	сту	ST	DATE OF DEED	воок	PAGE	DOC	
MAR-102-D	Surface Deed	17 West Mining, Inc. (160)	Jude, Elijah & Lillie	Martin	ку	03/18/1974	73	181		
MAR-35-D	Surface Deed	17 West Mining, Inc. (160)	Jude, Floyd & Marie	Martin	KY	12/13/1973	72	310		
MAR-89-1-D	Surface Deed	17 West Mining, Inc. (160)	Jude, Floyd & Marie	Martin	KY	03/18/1974	73	204		
MAR-150-1-D	Surface Deed	17 West Mining, Inc. (160)	Jude, Harold	Martin	KY	12/15/1983	94	232		
MAR-36-D	Surface Deed	17 West Mining, Inc. (160)	Jude, Hamson & Oille	Martin	ж	02/20/1974	72	807		
MAR-38-D	Surface Deed	17 West Mining, Inc. (160)	Jude, Henry & Connie	Martin	ку	01/12/1974	72	506		
MAR-81-D	Surface Deed	17 West Mining, Inc. (160)	Jude, Henry Lee & Doris	Martin	KY	05/23/1974	73	700		
MAR-176-D	Surface Deed	17 West Mining, Inc. (150)	Jude, Jack & Pearl	Martin	KY	03/06/1981	89	231		
MAR-174-D	Surface Deed	17 West Mining, Inc. (160)	Jude, James & Margle	Martin	KY	10/08/1980	88	173		
MAR-177-D	Surface Deed	17 West Mining, Inc. (160)	Jude, John & Briza	Martin	ку	03/06/1981	89	234		
MAR-198-D	Surface Dood	17 West Mining, Inc. (160)	Jude, Johnny & Linda	Martin	KY	12/17/1993	120	28		
MAR-108-D	Surface Deed	17 West Mining, Inc. (160)	Jude, Kenneth & Dollie	Martin	KY	05/23/1974	73	702		
MAR-214-D	Surface Deed	17 Wesl Mining, Inc. (160)	Jude, Luster & Mae Et Al	Martin	KY	05/03/1995	123	121		
MAR-115-D	Surface Deed	17 West Mining, Inc. (160)	Jude, Matthew & Belty	Martin	KY	03/05/1975	75	595		
MAR-158-D	Surface Deed	17 West Mining, Inc. (160)	Jude, Otis & Virgin	Martin	KY	02/25/1978	83	100		
MAR-94-D	Surface Deed	17 West Mining, Inc. (160)	Jude, Roger & Ruth Ellen	Martin	кү	02/09/1974	72	727		
MAR-42-D	Surface Deed	17 West Mining, inc. (160)	Jude, Sherman & Judy	Martin	KY	02/07/1974	72	718		
MAR-43-D	Surface Deed	17 West Mining, Inc. (160)	Jude, Sherman & Spicy	Martin	KY	05/29/1974	73	751		
MAR-48-D	Surface Deed	17 West Mining, Inc. (160)	Jude, Warren & Annie	Martin	кү	12/17/1973	72	321		
MAR-182-D	Surface Deed	17 West Mining, Inc. (160)	Jude, Warren G. & Sally	Martin	KY	04/22/1983	92	657		****
MAR-204-D	Surface Deed	17 West Mining, Inc. (160)	Jude, Woodie & Jean	Martin	KY	06/24/1994	119	654		
MAR-111-1-D	Surface Doed	17 West Mining, Inc. (160)	Kirk, James & Carol Sue	Martin	ку	05/07/1975	76	30		
MAR-207-D	Surface Deed	17 West Mining, Inc. (160)	Lowe, Larry & Mary	Martin	KY	06/13/1994	119	679		
MAR-49-D	Surface Deed	17 Wast Mining, Inc. (160)	Lowe, Ronnis & Ruth	Martin	KY	03/04/1974	73	72		
MAR-161-D	Surface Deed	17 West Mining, Inc. (160)	May, Charles & Madge	Martin	KY	06/01/1979	85	601		
MAR-51-D	Surface Deed	17 West Mining, Inc. (160)	Maynard, Chester & Ethel	Martin	KY	01/18/1974	72	543		
MAR-128-D	Surface Deed	17 West Mining, Inc. (160)	Maynard, Edward & Bertha	Martin	KY	01/17/1976	77	758		
MAR-136-D	Surface Deed	17 West Mining, Inc. (150)	Maynord, Ernest & Mabel	Martin	КУ	03/17/1976	78	328	1	

CONTRACT	CONTRACT TYPE	GRANTEE	GRANTOR	СТҮ	ST	DATE OF DEED	воок	PAGE	DOC
MAR-50-D	Surface Deed	17 West Mining, Inc. (160)	Maynard, Ernest Et A	Martin	KY	01/25/1974	72	633	
MAT-148-D	Surface Deed	17 West Mining, Inc. (160)	Maynard, Frank & Lizzie	Martin	KY	08/25/1977	81	919	
MAR-147-D	Surface Deed	17 West Mining, Inc. (160)	Maynard, Harvey Et Al	Martin	KY	06/04/1977	81	760	
MAR-199-0	Surface Deed	17 West Mining, Inc. (160)	Maynard, James E. & Donna	Martin	KY	12/16/1993	120	35	
MAR-127-D	Surface Deed	17 West Mining, Inc. (160)	Maynard, Jeanlous & Zelona	Martin	KY	01/17/1976	77	755	
MAR-149 2-D	Coal/Mineral Deed	17 West Mining, Inc. (160)	Maynard, Jim & Dorothy	Martin	KY	11/11/1977	82	377	
MAR-53-D	Surface Deed	17 West Mining, Inc. (160)	Maynard, Lewis & Christine	Martin	KY	03/18/1974	73	190	
MAR-205-D	Surface Deed	17 West Mining, Inc. (160)	Maynard, Ralph & Elizateth	Martin	KY	06/13/1994	119	675	
MAR-188-D	Surfaco Deed	17 West Mining, Inc. (160)	Mccay, Mosey & Gentrude	Martin	ку	06/14/1985	98	47	
MAR-54-D	Surface Deed	17 West Mining, Inc. (160)	Mills, Lacy & Grace	Martin	KY	11/28/1973	72	228	
MAR-165-D	Surface Deed	17 West Mining, Inc. (160)	Milis, Lacy & Grace	Markn	KY	07/12/1979	85	753	
MAR-166-D	Surface Deed	17 West Mining, Inc. (160)	Mills, Troy & Elsie	Martin	KY	07/12/1979	63	3	
MAR-113-D	Surface Deed	17 West Mining, Inc. (160)	Moore, A Z. & Ove	Martin	KY'	0.1/10/1975	75	801	
MAR-189-D	Surface Dend	17 West Mining, Inc. (160)	Moore, Arthur & Margie	Martin	KY	07/21/1976	79	323	
MAR 97-D	Surface Deed	17 West Mining, Inc. (160)	Moore, Freeman & Nokie	Martin	KY	02/06/1974	72	716	
MAR-185 D	Surface Deed	17 West Mining, Inc. (160)	Moore, George & Beatrice	Martin	KY	05/19/1983	93	268	
MAR-96-D	Surface Deed	17 West Mining, Inc. (160)	Moore, John B. & Grade	Martin	KY	01/05/1974	72	446	
MAR-164-D	Surface Deed	17 West Mining, Inc. (160)	Moore, Roosevelt Et Al	Martin	KY	07/06/1979	85	732	
MAR-173-D	Surface Deed	17 West Mining, Inc. (160)	Moore, Ruby Et Al	Martin	KY	05/07/1980	87	405	
MAR-91-D	Surface Deed	17 West Mining, Inc. (160)	Moore, Thurman Et Al	Martin	KY	01/14/1974	72	500	
MAR-132-D	Surface Doed	17 West Mining, Inc. (160)	Mullins, Edgar Et Al	Martin	KY	02/10/1976	78	51	
MAR-130-D	Surface Deed	17 West Mining, Inc. (160)	Mullins, Kate	Martin	ку	02/23/1976	78	82	
MAR-131-D	Surface Deed	17 West Mining, Inc. (100)	Mullins, Ked Jr. Et Al	Martin	KY	03/08/1976	78	238	
MAR-155 D	Surface Deed	17 West Mining, Inc. (160)	Muncy, Homer Sr. & Grace	Martin	KY	01/19/1978	83	7	
MAR-142-D	Surface Deed	17 West Mining, Inc. (160)	Muncy, Malcolm & Versie	Martin	ку	07/10/1976	79	284	
MAR-120-1-D	Surface Deed	17 West Mining, Inc. (160)	Pauley, Gay	Martin	KY	09/05/1974	74	574	
MAR-82-D	Surface Deed	17 West Mining, Inc. (160)	Pauley, Hayse & Ruby	Martin	KY	08/07/1974	74	296	5



CONTRACT #	CONTRACT TYPE	GRANTEE	GRANTOR	СТУ	ST	DATE OF DEED	воок	PAGE	DOC
MAR-141-D	Surface Deed	17 West Mining, Inc. (160)	Presce, Darlene	Martin	KY	09/13/1976	80	119	
MAR-116-D	Surface Deed	17 West Mining, Inc. (160)	Presce, Glenn & Judy	Martin	KY	03/11/1975	75	597	
MAR-107-D	Surface Deed	17 Wast Mining, Inc. (160)	Preece, John & Rebecca	Martin	кү	10/09/1974	74	647	
MAR-154-D	Surface Deed	17 West Mining, Inc. (160)	Preece, John & Rebecca	Martin	ку	01/03/1978	52	602	
MAR-60-D	Surface Deed	17 West Mining, Inc. (160)	Preece, John Henry Et Al	Martin	KY	01/21/1974	72	587	-
MAR-62-D	Surface Deed	17 West Mining, Inc. (160)	Preece, Keenis Et Al	Martin	KY	01/31/1974	72	661	
MAR-191-D	Surface Deed	17 West Mining, Inc. (160)	Robinson Heirs	Martin	KY	01/19/1976	77	766	
MAR-63-D	Surface Deed	17 West Mining, Inc. (160)	Robinson, Gary Lee & Eurolce	Martin	кү	03/30/1974	73	333	
MAR-104-D	Surface Dead	17 West Mining, Inc. (160)	Sam Staton Heirs	Martin	KY	04/29/1983	92	690	
MAR-112-D	Surface Deed	17 West Mining, Inc. (160)	Sartin, Robert Et Al	Martin	KY	04/12/1975	75	734	
MAR-133-D	Surface Dood	17 West Mining, Inc. (160)	Scott, Walker Et Al	Martin	KY	03/17/1976	78	324	
MAR-92-D	Surface Deed	17 West Mining, Inc. (160)	Sheldon Clark Et Al	Martin	KY	03/02/1974	73	69	
MAR-134-D	Surface Deed	17 West Mining, Inc. (160)	Sidney Baptist Church	Martin	KY	09/11/1976	79	675	
MAR-203-D	Surface Deed	17 West Mining, Inc. (160)	Sione, James & Lohmia	Martin	KY	12/16/1993	120	32	
MAR-64-D	Surface Deed	17 West Mining, Inc. (160)	Smith, Sarah Et Al	Martin	KY	11/02/1973	72	98	
MAR-44-D	Surface Deed	17 West Mining, Inc. (160)	Sonny Jude Heirs	Martin	KY	11/21/1973	72	205	
MAR-90-1-D	Surface Deed	17 West Mining, Inc. (160)	Sonny Jude Heirs	Martin	KY	10/21/1974	74	668	
MAR-95-D	Surface Deed	17 West Mining, Inc. (160)	Stacy, Carmel & Gladys	Martin	KY	01/18/1974	72	550	
MAR-67-D	Surface Deed	17 West Mining, Inc. (160)	Slacy, Robert & Rebecça	Martin	KY	02/16/1974	72	785	
MAR-159-D	Surface Deed	17 West Mining, Inc. (160)	Stanley, Dixle	Martin	KY	04/15/1978	83	313	
MAR-163-1-D	Surface Deed	17 West Mining, Inc. (160)	Stanley, Freeman & Bertha Et Al	Marun	KY	03/26/1980	87	354	
MAR-129-D	Surface Deed	17 West Mining, Inc. (160)	Stanley, Harlan & Dixle	Martin	KY	02/19/1976	78	73	
MAR-163-D	Surface Dead	17 West Mining, Inc. (160)	Stanley, I.L. Et Al	Marlin	KY	01/26/1980	87	93	
MAR-68-D	Surface Deed	17 West Mining, Inc. (160)	Staten, Amos & Ruby	Martin	KY	04/03/1974	73	252	
MAR-103-D	Surface Deed	17 West Mining, Inc. (160)	Staten, Dave & Elizabeth	Martin	KY	04/03/1974	73	354	
MAR-71-D	Surface Deed	17 West Mining, Inc. (160)	Staten, David & Mavis	Martin	кү	04/03/1974	73	363	
MAR-72-D	Surface Deed	17 West Mining, Inc. (160)	Staten, Earmel & Minnie	Martin	KY	03/26/1974	73	286	6

CONTRACT	CONTRACT TYPE	GRANTEE	GRANTOR	сту	ST	DATE OF DEED	воок	PAGE	DOC
MAR-73-D	Surface Deed	17 West Mining, Inc. (160)	Staten, Herman & Eunice	Martin	KY	04/03/1974	73	357	
MAR-200-D	Surface Deed	17 West Mining, Inc. (160)	Staton, Emzy & Siler	Martin	KY	03/21/1995	121	408	
MAR-89-4-D	Surfaço Deed	17 West Mining, Inc. (160)	Staton, Jesse & Arlene	Martin	KY	02/07/1974	72	810	
MAR-143-D	Surface Deed	17 West Mining, Inc. (160)	Stepp, Geneva & Granville Et Al	Martin	KY	05/11/197G	78	866	
MAR-58-D	Surface Deed	17 West Mining, Inc. (160)	Stepp, Sirilda Et Al	Martin	KY	02/05/1974	73	47	
MAR-114-D	Surfaça Deed	17 West Mining, Inc. (160)	Taylor, Freelon & Gracie	Martin	KY	03/05/1975	75	593	
MAR-160-D	Surface Deed	17 West Mining, Inc. (160)	Thompson, Joe Et Al	Martin	КҮ	02/10/1979	85	476	
MAR-147-1-D	Surface Deed	17 West Mining, Inc. (160)	Tilda Mayneid Heirs	Martin	KY	01/28/1978	83	29	
MAR-121-D	Surface Deed	17 West Mirring, Inc. (160)	Triplett, J.B. & Audrey	Martin	KY	05:05/1975	76	59	
MAR-122-D	Surface Deed	17 West Mining, Inc. (160)	Tripleit, J.B. & Audrey	Martin	KY	05/08/1975	76	73	
MAR-123-D	Surface Deed	17 West Mining, Inc. (160)	Triplett, J.B. & Audrey	Martin	KY	05/09/1975	76	80	
MAR-79-D	Surface Deed	17 West Mining, Inc. (160)	Triplett, J.B. & Audrey Et Al	Martin	KY	04/06/1974	73	389	
MAR-160	Surface Deed	17 West Mining, Inc. (160)	Webster County Coal Corporation	Martin	KY	06/21/1974	46	484	
MAR-152-D	Surface Deed	17 West Mining, Inc. (160)	Was Moore Heirs	Marlin	KY	06/16/1978	83	812	
MAR-120-0	Surface Deed	17 West Mining, Inc. (160)	Williamson, Russell & Nolda	Martin	KY	02/06/1975	75	386 108.	
MAR-109-D	Surface Deed	17 West Mining, Inc. (160)	Willis Sarlin Helrs	Martin	ку	10/03/1975	77	111, 124, 207	
MAR-215-D	Surface Deed	17 West Mining, Inc. (160)	Wilson, Hessie Et Al	Martin	KY	06/23/1997	129	53	

See the above referenced deeds for the legal description of the subject properties

EXHIBIT B

Order of the United States Bankruptcy Court for the Eastern District of Kentucky, Ashland Division

UNITED STATES BANKRUPTCY COURT EASTERN DISTRICT OF KENTUCKY ASHLAND DIVISION

}	
IN RE:	CHAPTER 11
HORIZON NATURAL RESOURCES) COMPANY, et al., 1	CASE NO. 02-14261
DEBTORS.	JOINTLY ADMINISTERED
)	JUDGE WILLIAM S. HOWARD

ORDER PURSUANT TO 11 U.S.C. §§ 105(A), 362, 363, 365, 1123 AND 1146(C) AND FED. R. BANKR. P. 2002, 6004, 6006 AND 9014: (A) APPROVING ASSET PURCHASE AGREEMENTS, (B) AUTHORIZING SALE OF SUBSTANTIALLY ALL ASSETS FREE AND CLEAR OF ALL LIENS, CLAIMS, INTERESTS AND OTHER ENCUMBRANCES, AND (C) AUTHORIZING ASSUMPTION AND ASSIGNMENT OF CERTAIN AGREEMENTS

THIS MATTER is before the Court on the THIRD AMENDED JOINT PLAN OF REORGANIZATION UNDER CHAPTER 11 OF THE BANKRUPTCY CODE (the "Reorganization Plan") and the THIRD AMENDED JOINT LIQUIDATING PLAN UNDER CHAPTER 11 OF THE BANKRUPTCY CODE (the "Liquidating Plan" and, together with the

The Debtors are the following entities: 17 West Mining, Inc., Aceco, Inc., Americoal Development Company, Appalachian Realty Company, Ayrshire Land Company, Basseo Valley, LLC, Heech Coal Company, Bentley Coal Company, Bluegrass Coal Development Company, Dowle Resources Limited, Cannelton Inc., Cannelton Industries, Inc., Cannelton Land Company, Caunelton Sales Company, Dowle Resources Limited, Cannelton Inc., Cannelton Industries, Inc., Cannelton Land Company, Caunelton Sales Company, Coal Company, Coal Ventures Holding Company, Inc., Dunn Coal & Dock Company, East Kentucky Energy Corporation, Employee Benefits Management, Inc., Employee Claims Administration, LLC, Finer Z Corporation, Evergreen Mining Company, Fairview Land Company, Flarany Inranch Coal, Inc., Enrich Coal Co., Inc., Franklin Coal Sales Company, G.E.C., Inc., Grassy Cove Coal Mining Company, Horizon Finance Corp., Horizon Matural Resources Company, Highland Coal, Inc., HNR Mining, Inc., Horizon Blue Creek Coal Company, Horizon Finance Corp., Horizon Matural Resources Company, Horizon Natural Resources Holding Company, LUC, Horizon Natural Resources Sales Company, Horizon Natural Resources Management, Inc., Leslie Resources, Inc., McCoy Coal Company, Mining Inc., Leslie Resources Management, Inc., Leslie Resources, Inc., McCoy Coal Company, Meadowlark, Inc., Mcga Minerals, Inc., Nid-Vol Leasing, Inc., Midwest Coal Company, Midwest Coal Company, Mining Technologies, Inc., Mountain Coals Corporation, Mountain-Clay Incorporated, Mountainer Coal Development Company, Old Ben Coal Company, Phoenix Land Company, Premium Processing, Inc., Princess Beverly Coal Company, Princess Beverly Coal Holding Company, Rinc., Pro-Land, Inc., Red Ridge Mining, Inc., River Coal Company, Inc., Roaring Creek Coal Company, Ruffee Enterprises, Inc., Sunny Ridge Mining Company, Inc., Pro-Land, Inc., Red Ridge Mining Company, Inc., Prenessee Mining, Inc., Tucker Mining Company, Preminal, LLC, Shippard River Coal Holding Company, Inc., Tennessee Mining, Inc., Tucker Mining



Reorganization Plan, the "Plans"), each filed on July 11, 2004 by the debtors and debtors in possession in the above captioned cases (collectively, the "Debtors") and each of which constitutes a motion (collectively, the "Sale Motion"), seeking, inter alia, entry of an order pursuant to sections 105(a), 362, 363, 365, 1123 and 1146(c) of chapter 11 of title 11 of the United States Code (as amended, the "Bankruptcy Code"), (a) approving (x) that certain Amended and Restated Asset Purchase Agreement, dated June 2, 2004, by and between certain of the Debtors and Newcoal, LLC ("Newcoal") (as such has been or may be amended and including all exhibits, schedules and related agreements executed in connection therewith, the "Newcoal Agreement"), (y) that certain Asset Purchase Agreement, dated August 17, 2004, by and between certain of the Debtors and Oldcoal, LLC ("Oldcoal") (as such has been or may be amended and including all exhibits, schedules and related agreements executed in connection therewith, the "Oldcoal Agreement"), and (z) that certain Asset Purchase Agreement, dated August 17, 2004, by and between certain of the Debtors and A.T. Massey Coal Company, Inc. ("Massey," and together with Newcoal and Oldcoal, the "Purchasers") (as such has been or may be amended, including all exhibits, schedules and related agreements executed in connection therewith, the "Massey Agreement" and, together with the Newcoal Agreement and the Oldcoal Agreement, the "Agreements"), (b) authorizing the sale to the Purchasers of substantially all of the assets of the Debtors as specified in each Agreement (the "Purchased Assets"), and (c) authorizing the assumption by the relevant Debtors and the assignment to the applicable Purchaser of certain executory contracts and unexpired leases of the Debtors specified in the Agreements (the "Assumed Agreements"); and the Sale Motion having been served upon all creditors and other parties in interest in these cases, including, without limitation, (i) the Office of the United States Trustee for the Eastern District of Kentucky; (ii) counsel for the Debtors'

DIP financing lenders; (iii) the agent and counsel for the holders of the Second Lien Notes; (iv) the indenture trustee and counsel for the holders of the Third Lien Notes; (v) counsel for the Official Committee of Unsecured Creditors; (vi) counsel to the Purchasers; (vii) all persons or entities with a lien on, or security interest in, any of the Purchased Assets known to the Debtors; (viii) the counterparty to each of the Assumed Agreements; (ix) all taxing authorities having jurisdiction over any of the Purchased Assets, including the Internal Revenue Service; (x) all entities that have previously expressed serious interest in acquiring all or a portion of the Purchased Assets; (xi) the United States Environmental Protection Agency; (xii) the State Environmental Agencies in the jurisdictions where the Purchased Assets are located; (xiii) the United States Securities and Exchange Commission; (xiv) Attorneys General in the States where the Purchased Assets are located; and (xv) those parties requesting notice in these chapter 11 cases; and it appearing that proper and adequate notice of the Sale Motion has been given and that no other or further notice is required; and after due deliberation thereon; and good and sufficient cause appearing therefor,

NOW, THEREFORE, THE COURT HEREBY FINDS THAT:

- A. This Court has jurisdiction over this matter pursuant to 28 U.S.C. §§ 157 and 1334.
- B. This is a core proceeding pursuant to 28 U.S.C. § 157(b)(2). Venue is proper in this District and this Court pursuant to 28 U.S.C. §§ 1408 and 1409. Notice of the Sale Motion having been given as described above, is proper, timely, adequate, sufficient and proper under the circumstances.
- C. The Debtors and their investment bankers, Miller Buckfire Lewis Ying & Co., LLC ("MBLY"), diligently and in good faith marketed the Purchased Assets to secure the

highest and best offer therefor by, inter alia, delivering offering materials to potential purchasers, inviting the potential purchasers to meet with the Debtors' management, MBLY, and other of the Debtors' professionals, providing each of them with the opportunity to conduct extensive due diligence, and conducting an auction where each potential purchaser had an opportunity to bid for all or any portion of the Purchased Assets in accordance with the bidding procedures approved by the Court. In addition, the Debtors delivered the Bidding Procedures Order² and the Sale Motion to each of the entities that had previously expressed an interest in the Purchased Assets. The terms and conditions set forth in each Agreement, and the transactions contemplated thereby, represent fair and reasonable terms and conditions, including the amount of the purchase price, and constitute the highest and best offer obtainable for the Purchased Assets and are fair and adequate.

- D. Proper, timely, adequate and sufficient notice of the Bidding Procedures, the Auction, the Sale Motion, and the hearing on the foregoing has been provided in accordance with sections 105(a), 362, 363 and 365 of the Bankruptey Code and Fed. R. Bankr. P. 2002, 6004 and 6006, and no other or further notice is required.
- E. A reasonable opportunity to object or be heard with respect to the Sale Motion and the relief requested therein, and the rights of third parties to submit higher or otherwise better offers for all or any portion of the Purchased Assets in accordance with the bidding procedures approved by this Court, has been afforded to all interested persons and entities.
- F. The Bidding Procedures afforded a full, fair and reasonable opportunity for any entity to make a higher or otherwise better offer to purchase the Purchased Assets.

² All capitalized terms not defined herein shall have the respective meanings ascribed to them in the Sale Motion or the applicable Agreement.

- G. The Debtors and the Purchasers have complied with the Bidding Procedures in all respects. The auction process and sales were non-collusive, fair and reasonable, conducted in good faith and resulted in the Debtors' obtaining the highest value for the Purchased Assets.
- H. The Debtors have reasonably exercised their sound business judgment in determining to enter into each Agreement, to sell and transfer the respective Purchased Assets, and to assume and assign the respective Assumed Agreements, to the applicable Purchaser. The relief requested in the Sale Motion is in the best interests of the Debtors' estates, their creditors and other parties in interest.
- I. Each Agreement was negotiated, proposed and entered into by the applicable Debtors and the applicable Purchaser without collusion, in good faith, and from arm's-length bargaining positions. Neither any of the Debtors nor any of the Purchasers have engaged in any conduct that would cause or permit the Agreements to be avoided under § 363(n) of the Bankruptcy Code. None of the Purchasers is an "insider" or "affiliate" of the Debtors (as such terms are defined in the Bankruptcy Code). Each Purchaser is a good faith purchaser under § 363(m) of the Bankruptcy Code and, as such, is entitled to all of the protections afforded thereby in consummating the transactions contemplated by the applicable Agreement. The Purchasers will be acting in good faith within the meaning of § 363(m) of the Bankruptcy Code in Closing the transactions contemplated by the applicable Agreement at all times after the entry of this Order.
- J. The consideration to be provided by each Purchaser for the applicable Purchased Assets pursuant to the applicable Agreement (i) is fair and reasonable, (ii) represents the highest and best offer for the applicable Purchased Assets, and (iii) constitutes reasonably equivalent

value and fair consideration under the Bankruptcy Code and under the laws of the United States, any state, territory, possession, and the District of Columbia.

- K. The Debtors have full corporate power and authority to execute and deliver the Agreements and all other documents contemplated thereby; and no further consents or approvals are required for the Debtors to consummate the transactions contemplated by the Agreements, except as otherwise set forth in the Agreements.
- L. With respect to any and all entities asserting any options, pledges, security interests, Claims, equities, reservations, third party rights, voting trusts or similar arrangements, Liens, charges or other encumbrances or restrictions on or conditions to transfer or assignment of any kind (including, without limitation to the generality of the foregoing, restrictions or conditions on or to the transfer, assignment or renewal of licenses, permits registrations and authorizations or approvals of or with respect to governmental units and instrumentalities), whether direct or indirect, absolute or contingent, matured or unmatured, liquidated or unliquidated on or against the Purchased Assets (collectively, the "Encumbrances"), either (i) such entity has consented to the sale and transfer, license and assignment, as applicable, free and clear of its Encumbrance, with such Encumbrance to attach to the proceeds of such sale and transfer, license and assignment, as applicable, respectively, (ii) applicable nonbankruptcy law permits sale of the assets free and clear of such Encumbrance, (iii) such Encumbrance is in bona fide dispute, or (iv) such entity could be compelled, in a legal or equitable proceeding, to accept a money satisfaction of such Encumbrance, so that the conditions of section 363(f) of the Bankruptcy Code have been met.
- M. Upon the Closing of each Agreement, the sale and transfer of the relevant
 Purchased Assets to the applicable Purchaser shall be a legal, valid and effective transfer of such

Purchased Assets to such Purchaser, and shall vest in such Purchaser all right, title and interest in the applicable Purchased Assets in accordance with the terms and conditions of the relevant Agreement free and clear of any Encumbrances, under sections 105(a), 363(f) and 365 of the Bankruptcy Code.

- N. Except as expressly set forth in Section 2.3 of each Agreement, none of the Purchasers shall have any liability for any (i) obligation of the Debtors, or (ii) any Claim against the Debtors related to the applicable Purchased Assets by reason of the transfer of such Purchased Assets to such Purchaser. None of the Purchasers shall be deemed, as a result of any action taken in connection with the purchase of the applicable Purchased Assets or otherwise, to:

 (1) be a successor to the Debtors (other than with respect to the applicable Assumed Liabilities and any obligations arising under the relevant Assumed Agreements from and after the applicable Closing); or (2) have, de facto or otherwise, merged with or into the Debtors. None of the Purchasers is acquiring or assuming any liability, warranty or other obligation of the Debtors, except as expressly set forth in the relevant Agreement and any of the relevant Assumed Agreements.
- O. The Purchasers would not have entered into their respective Agreements and would not consummate the transactions contemplated thereby if the sale of the relevant Purchased Assets to the Purchasers or their respective assignees, the assumption, assignment and sale of the applicable Assumed Agreements to the Purchasers or their respective assignees, and the assumption of the applicable Assumed Liabilities by the Purchasers or their respective assignees were not, except as otherwise provided in the relevant Agreement with respect to the applicable Assumed Liabilities and Permitted Liens, free and clear of all Encumbrances of any kind or nature whatsoever, or if any of the Purchasers would, or in the future could (except and



only to the extent expressly provided in Section 2.3 of the relevant Agreement and with respect to the relevant Assumed Liabilities), be liable for any of such Encumbrances or other liabilities (such other liabilities or obligations being referred to collectively as the "Successor Liabilities"), including, but not limited to, Encumbrances or Successor Liabilities in respect of the following (the following being referred to collectively as the "Successor Liability Documents, Statutes and Claims"): (1) any employment or labor agreements; (2) all deeds of trust and security interests; (3) any pension, welfare, compensation or other employee benefit plans, agreements, practices and programs, including, without limitation, any pension plan of any Debtor; (4) any other employee, worker's compensation, occupational disease or unemployment or temporary disability related Claim, including, without limitation, Claims that might otherwise arise under or pursuant to (a) the Employee Retirement Income Security Act of 1974, as amended, (b) the Fair Labor Standards Act, (c) Title VII of the Civil Rights Act of 1964, (d) the Federal Rehabilitation Act of 1973, (e) the National Labor Relations Act, (f) the Worker Adjustment and Retraining Act of 1988, (g) the Age Discrimination and Employee Act of 1967 and Age Discrimination in Employment Act, as amended, (h) the Americans with Disabilities Act of 1990, (i) the Consolidated Omnibus Budget Reconciliation Act of 1985, (j) the Jones Act, (k) the Longshoremen's and Harbor Workers' Compensation Act, (I) the Coal Industry Retiree Health Benefit Act of 1992, (m) state discrimination laws, (n) state unemployment compensation laws or any other similar state laws, or (o) any other state or federal benefits or claims relating to any employment with the Debtors or any predecessors; (5) any products liability or similar Claims, whether pursuant to any state or federal laws or otherwise, including, without limitation, asbestos-related Claims; (6) reclamation, environmental or other Claims or Liens arising from conditions first existing on or prior to the applicable Closing (including, without limitation, the

presence of hazardous, toxic, polluting or contaminating substances or waste) that may be asserted on any basis, including, without limitation, under the Comprehensive Environmental Response, Compensation, and Liability Act, 42 U.S.C. §§ 9601, et seq., or similar state statute; (7) any bulk sales or similar law; (8) any tax statutes or ordinances, including, without limitation, the Internal Revenue Code of 1986, as amended; and (9) any theories of successor liability.

- P. The Debtors may assume the Assumed Agreements and assign each of them to the relevant Purchaser pursuant to section 365 of the Bankruptcy Code free and clear of all Encumbrances. The assumption and assignment of the applicable Assumed Agreements pursuant to the terms of this Order is integral to each Agreement and is in the best interests of the Debtors and the Debtors' estates, creditors and other parties in interest, and represents the reasonable exercise of sound and prudent business judgment by the Debtors.
- Q. The respective amounts set forth on Exhibit A hereto are the sole amounts necessary under sections 365(b)(1)(A) and (B) and 365(f)(2)(A) of the Bankruptcy Code to cure all undisputed monetary defaults and pay all undisputed actual pecuniary losses under the Assumed Agreements (the "Undisputed Cure Amounts"). Exhibit B, or the stipulations of parties filed with the Court, list each cure amount that has been timely disputed by the applicable counterparty and that remains unliquidated as of the date hereof (the "Disputed Cure Amounts"). The Court will conduct a hearing at the United States Bankruptcy Court, 100 East Vine Street, 3rd Floor Courtroom, Lexington, Kentucky 40507, on September 27, 2004, at 2:00 p.m. with respect to the Disputed Cure Amounts. The Undisputed Cure Amounts, collectively with the ultimately liquidated Disputed Cure Amounts, shall be referred to as the "Cure Amounts."

- R. Upon the payment of the applicable Cure Amount, if any, and subject to the terms of the stipulation of the parties to any Assumed Agreement filed with the Court, if any, (a) each Assumed Agreement shall constitute a valid and existing interest in the property subject to such Assumed Agreement, (b) none of the Debtors' rights will have been released or waived under any such Assumed Agreement, (c) the Assumed Agreements shall remain in full force and effect, and (d) no default shall exist under the Assumed Agreements, nor shall there exist any event or condition which, with the passage of time or the giving of notice, or both, would constitute such a default.
- S. Each Purchaser has provided adequate assurance of its future performance under the relevant Assumed Agreements within the meaning of sections 365(b)(1)(C), 365(b)(3) (to the extent applicable) and 365(f)(2)(B) of the Bankruptcy Code.
- T. The sale and transfer of the Purchased Assets is being effected under the Plans confirmed by the Court by orders entered on or about the date hereof, (the "Confirmation Orders") and, accordingly, constitute transfers pursuant to § 1146(c) of the Bankruptcy Code, which shall not be taxed under any law imposing a stamp tax or similar tax.
- U. All findings of fact and conclusions of law announced by the Court at the hearing in relation to the Sale Motion are hereby incorporated herein.
- V. Newcoal, Oldcoal, American Specialty Lines Insurance Company and the Insurance Company of the State of Pennsylvania (collectively, "AlG"), Travelers Casualty and Surety Company of America (together with its affiliates and subsidiaries, "Travelers") and certain of the governmental entities listed on Exhibit K to the Disclosure Statement have entered into certain Reclamation Agreements (as such term is defined in the Confirmation Orders) relating to reclamation duties with respect to the permits of the Debtors that are to be transferred

to either Newcoal or Oldcoal. The Reclamation Agreements are incorporated herein by reference. The actions contemplated by the Plans and the Reclamation Agreements entered into in connection therewith will satisfy the Debtors' reclamation obligations associated with the mining permits and interests constituting Designated Assets and the Additional APA Assets under the Surface Mining Control and Reclamation Act of 1977 ("SMCRA") and its state law counterparts by providing for the transfer of the mining permits and interests constituting Designated Assets and Additional APA Assets, respectively, to Newcoal (as to the Designated Assets), Oldcoal (as to the Additional APA Assets transferred under the Oldcoal Agreement), and Massey (as to the Additional APA Assets transferred under the Massey Agreement), each a qualified operator that will, in accordance with the Newcoal Agreement, the Oldcoal Agreement and the Massey Agreement, as applicable, take transfer of the permits and assume the reclamation and other liabilities associated with such permits under SMCRA, its state law counterparts and other applicable laws.

NOW, THEREFORE, IT IS HEREBY ORDERED, ADJUDGED AND DECREED THAT:

- The Sale Motion is granted on the terms set forth herein.
- 2. All objections to the Sale Motion or the relief requested therein that have not been withdrawn, waived, or settled as announced to the Court at the hearing on the Sale Motion or by stipulation filed with the Court, and all reservations of rights included therein, are, except as provided in other orders of the Court, hereby overruled on the merits for the reasons set forth by the Court on the record of the hearing on the Sale Motion. The objections to the Sale Motion by Wells Fargo Bank, National Association, in its capacity as indenture trustee for the Third-Tier Senior Notes, and the Informal Committee of Third-Tier Senior Note Holders (as such term is

defined in the Plans, as modified) shall be resolved on the terms announced to the Court (including the reservation of rights announced to the Court) at the hearing on the Sale Motion.

- 3. All persons and entities are hereby forever prohibited and enjoined from taking any action that would adversely affect or interfere with the ability of the Debtors to sell and transfer the Purchased Assets to the Purchasers in accordance with the terms of the Agreements and this Order; provided, however, that any application of this paragraph to the transfer of surety bonds issued by AIG or Travelers is conditioned upon the satisfaction of the requirements of the bonding term sheets (the "Bonding Term Sheets"), which were entered into among Newcoal, Oldcoal, AIG and Travelers, and the Reclamation Agreements.
- Each Agreement is hereby approved in all respects, and shall be deemed in full force and effect, binding and benefiting the Debtors and the Purchasers.
- 5. The Debtors are authorized, empowered and directed to implement and consummate all of the transactions contemplated by each Agreement (each, collectively, a "Sale"), including, without limitation, to sell the applicable Purchased Assets to the applicable Purchaser and to assume and assign to the applicable Purchaser the applicable Assumed Agreements, all on the terms of the applicable Agreement, for the purchase price set forth in, and determined in accordance with, such Agreement. The Debtors are authorized, empowered and hereby directed to deliver special warranty deeds, bills of sale, assignments and other such documentation that may be necessary or requested by each Purchaser in accordance with the terms of the relevant Agreement to evidence the transfers required by such Agreement.
- 6. Upon the Closing of each Sale, the applicable Purchaser shall take title to and possession of the relevant Purchased Assets subject only to the applicable Permitted Liens. With the exception of such Permitted Liens, the transfer of title to the Purchased Assets and the

Assumed Agreements shall be free and clear of any and all Encumbrances, including, without limitation, any Claims pursuant to any successor or successor-in-interest liability theory; provided, however, that each Purchaser shall not be relieved of liability with respect to the applicable Assumed Liabilities, including any obligations accruing under the applicable Assumed Agreements from and after the Closing of the relevant Sale. All Encumbrances shall attach solely to the proceeds of such Sale with the same validity and priority as they attached to the applicable Purchased Assets.

- 7. None of the Purchasers constitutes a successor to the Debtors because:
 - (i) Except as otherwise set forth in the applicable Agreement, none of the Purchasers is expressly or impliedly agreeing to assume any of the Debtors' liabilities;
 - (ii) The transactions contemplated by the Agreements do not amount to a consolidation, merger or a de facto merger of the Debtors and any Purchaser;
 - (iii) None of the Purchasers is merely a continuation of the Debtors; and
 - (iv) The transactions contemplated by the Agreements are not being entered into fraudulently or in order to escape liability from the Debtors' debts.
- 8. This Order shall be binding in all respects upon the Debtors, their estates, all creditors of, and holders of equity interests in, any Debtor (whether known or unknown), any holders of Encumbrances on the Purchased Assets, all non-Debtor parties to the Assumed Agreements, all successors and assigns of each Purchaser, each Debtor and their affiliates and subsidiaries, the Purchased Assets and any trustees, if any, subsequently appointed in the Debtors' chapter 11 cases or upon a conversion to chapter 7 under the Bankruptcy Code of any of

the Debtors' cases. This Order and the Agreements shall inure to the benefit of the Debtors, their estates, their creditors, the Purchasers and their respective successors and assigns. None of the Agreements shall be subject to rejection.

- 9. Effective upon the applicable Closing Date and except as otherwise provided by stipulations filed with or announced to the Court with respect to a specific matter, all persons and entities are forever prohibited and enjoined from commencing or continuing in any manner any action or other proceeding, whether in law or equity, in any judicial, administrative, arbitral or other proceeding against the relevant Purchaser, its successors and assigns, or the relevant Purchased Assets, with respect to any (a) Encumbrance arising under, out of, in connection with or in any way relating to the Debtors, the applicable Purchased Assets, the operation of such Purchased Assets prior to the Closing of the sale of such Purchased Assets, or (b) Successor Liability, including, without limitation, the following actions:
 - Commencing or continuing in any manner any action or other proceeding against the relevant Purchaser, its successors, assets or properties;
 - (ii) Enforcing, attaching, collecting or recovering in any manner any
 judgment, award, decree or order against the relevant Purchaser, its
 successors, assets or properties;
 - (iii) Creating, perfecting or enforcing any Lien or other Encumbrance against the relevant Purchaser, its successors, assets or properties;
 - (iv) Asserting any sctoff, right of subrogation or recoupment of any kind against any obligation due the relevant Purchaser or its successors;
 - (v) Commencing or continuing any action, in any manner or place, that does not comply or is inconsistent with the provisions of this Order or other

- orders of the Court, or the agreements or actions contemplated or taken in respect thereof; or
- (vi) Revoking, terminating or failing or refusing to renew any license, permit or authorization to operate any of the relevant Purchased Assets or conduct any of the businesses operated with such Purchased Assets.
- 10. Without limiting the generality of the foregoing, except as otherwise specifically set forth in each Agreement, none of the Purchasers shall assume or be obligated to pay, perform or otherwise discharge any workers' compensation debts, obligations and liabilities of the Debtors arising pursuant to state law or otherwise. This Order is intended to be all inclusive and shall encompass, but not be limited to, workers' compensation Claims or suits of any type, whether now known or unknown, whenever incurred or filed, which have occurred or which arise from work-related injuries, diseases, death, exposures, intentional torts, acts of discrimination or other incidents, acts or injuries prior to the relevant Closing Date, including, but not limited to, any and all workers' compensation Claims filed or to be filed, or reopenings of those Claims, by or on behalf of any of the Debtors' current or former employees, persons on laid-off, inactive or retired status, or their respective dependents, heirs or assigns, as well as any and all premiums, assessments or other obligations of any nature whatsoever of the Debtors relating in any way to workers' compensation liability.
- 11. In addition, without limiting the generality of the foregoing, except as otherwise specifically set forth in each Agreement, none of the Purchasers shall assume or be obligated to pay, perform or otherwise discharge any debts, obligations and liabilities of the Debtors arising pursuant to the Debtors' ownership or operation of their facilities prior to the date of the

applicable Closing, including, but not limited to, any Successor Liabilities in respect of the Successor Liability Documents, Statutes and Claims or otherwise.

- 12. Any amounts that become payable by the Debtors to each Purchaser pursuant to the applicable Agreement (and related agreements executed in connection therewith) as of the applicable Closing Date (a) shall constitute allowed administrative expenses of the Debtors' estates under sections 503(b)(1) and 507(a)(1) of the Bankruptcy Code and (b) shall be paid by the Debtors in the time and manner provided for in such Agreement.
- 13. All entities that are in possession of some or all of the Purchased Assets on the relevant Closing Date are directed to surrender possession of such Purchased Assets to the relevant Purchaser or its assignce at the applicable Closing.
- for in this Order or the relevant Agreement, none of the Purchasers shall have any liability or responsibility for any liability or other obligation of the Debtors arising under or related to the relevant Purchased Assets. Without limiting the generality of the foregoing, and except as otherwise specifically provided herein or in the applicable Agreement, the Purchasers shall not be liable for any Claims against the Debtors or any of their predecessors or affiliates, and the Purchasers shall have no successor or vicarious liabilities of any kind or character, including, but not limited to, any theory of antitrust, environmental, successor or transferee liability, labor law, de facto merger or substantial continuity, whether known or unknown as of the applicable Closing, now existing or hereafter arising, whether fixed or contingent, with respect to the Debtors or any obligations of the Debtors arising prior to the applicable Closing, including, but not limited to, liabilities on account of any taxes arising, accruing or payable under, out of, in connection with, or in any way relating to the operation of the applicable Purchased Assets prior

to the applicable Closing. Each Purchaser has given substantial consideration under the applicable Agreement for the benefit of the holders of Encumbrances. The consideration given by each Purchaser shall constitute valid and valuable consideration for the releases of any potential Claims of successor liability of such Purchaser, which releases shall be deemed to have been given in favor of each Purchaser by all holders of Encumbrances against the Debtors or the applicable Purchased Assets.

- Cure Amounts and reserving for the applicable Disputed Cure Amounts, the Debtors are authorized to assume and assign each Assumed Agreement to the relevant Purchaser free and clear of all Encumbrances. Such payments (if any) shall (a) effect a cure of all defaults existing thereunder as of the applicable Closing Date, (b) compensate for any actual pecuniary loss to such non-Debtor party resulting from such default, and (c) together with the assumption of the Assumed Agreements by the applicable Purchaser, constitute adequate assurance of future performance thereof. Each Purchaser shall then have assumed the applicable Assumed Agreements and, pursuant to section 365(f) of the Bankruptcy Code, the assignment by the Debtors of such Assumed Agreements shall not be a default thereunder. After the payment of the relevant Cure Amounts, neither the Debtors nor the Purchasers shall have any further liabilities to the non-Debtor parties to the relevant Assumed Agreements other than the relevant Purchaser's obligations under the applicable Assumed Agreements that become due and payable on or after the applicable Closing Date.
- 16. Any provisions in any Assumed Agreement that prohibit or condition the assignment of such Assumed Agreement or allow the party to such Assumed Agreement to terminate, recapture, impose any penalty, condition on renewal or extension or modify any term

or condition upon the assignment of such Assumed Agreement, constitute unenforceable antiassignment provisions that are void and of no force and effect. All other requirements and
conditions under sections 363 and 365 of the Bankruptcy Code for the assumption by the
Debtors and assignment to each Purchaser of the applicable Assumed Agreement have been
satisfied. Upon the applicable Closing, in accordance with sections 363 and 365 of the
Bankruptcy Code, each Purchaser shall be fully and irrevocably vested with all rights, title and
interest of the relevant Debtor under the applicable Assumed Agreement. Any provisions of any
lease of real property constituting an Assumed Agreement that purports to permit the landlords
thereunder to cancel the remaining term of such lease if the Debtors discontinue their use or
operation of the leased real property is void and of no force and effect, and shall not be
enforceable against the applicable Purchaser and any sublessees thereof, and the landlord under
such lease shall not have the right to cancel or otherwise modify such lease or increase the rent,
assert any Claim or impose any penalty by reason of such discontinuation, the Debtors' cessation
of operations, the assignment of such lease to such Purchaser or its assignee or the interruption of
business activities at any of the leased premises.

- 17. Upon the Closing of each Sale and the payment of the relevant Undisputed Cure Amounts and reserving for the relevant Disputed Cure Amounts by the applicable Purchaser, such Purchaser shall be deemed to be substituted for each relevant Debtor as a party to the applicable Assumed Agreements and the Debtors shall be relieved from all liability on such Assumed Agreements arising after the relevant Closing.
- 18. Each Purchaser is a good faith purchaser within the meaning of section 363(m) of the Bankruptcy Code and, as such, is entitled to the full protections of section 363(m) of the Bankruptcy Code.

- Pursuant to Rules 6004(g) and 6006(g) of the Federal Rules of Bankruptcy
 Procedure, this Order shall be effective immediately upon entry.
- 20. A Certified Copy of this Order may be filed with the appropriate Clerk and/or recorded with the Recorder to act to cancel the Liens and other Encumbrances of record except the applicable Permitted Liens.
- Pursuant to section 1146(c) of the Bankruptcy Code, the issuance, transfer, or exchange of notes, equity securities, or other securities under the Plan, the creation of any mortgage, deed of trust, or other security interest, the making or assignment of any lease or sublease, or the making or delivery of any deed or other instrument of transfer under, in furtherance of, or in connection with the Plans, including, without limitation, any merger agreements or agreements of consolidation, deeds, bills of sale, or assignments executed in connection with any of the transactions contemplated under the Plans and the transfer of the Purchased Assets and the execution and delivery of any instrument of transfer in connection with the Agreements, shall not be taxed under any law imposing or subject to any stamp tax, real estate tax or other transfer tax, personal property transfer tax, mortgage tax, recording tax, sales tax, use tax, or other similar tax. All sale transactions consummated by the Debtors and approved by the Bankruptcy Court on and after the Commencement Date through and including the Effective Date, or by the Liquidating Trust after the Effective Date, including, without limitation, the transfers of the Designated Assets and the Additional APA Assets under the APA or any Additional APA, as applicable, and the assumption and assignment of the Assigned Contracts and Leases under the APA or any Additional APA, as applicable, shall be deemed to have been made under, in furtherance of, or in connection with the Plans and, thus, shall not be subject to any stamp tax, real estate tax or other transfer tax, personal property transfer tax,

mortgage tax, recording tax, sales tax, use tax, or other similar tax. The Debtors, the Liquidating Truste, Newcoal and cach Additional Purchaser are hereby authorized to deliver a notice or short form of this Order, substantially in the form attached as Exhibit B to the Confirmation Orders (the "Notice"), to any state or local recording officer, and such officer must accept for filing such documents or instruments without charging any stamp tax, real estate tax or other transfer tax, personal property transfer tax, mortgage tax, recording tax, sales tax, use tax, or other similar tax. The Notice (i) shall have the effect of an Order of this Court, (ii) shall constitute sufficient notice of the entry of the Confirmation Order to such filing and recording officers, and (iii) shall be a recordable instrument notwithstanding any contrary provision of non-bankruptcy law. The Court specifically retains jurisdiction to enforce the foregoing direction, by contempt or otherwise.

- 22. The automatic stay provisions of section 362 of the Bankruptcy Code are vacated and modified to the extent necessary to implement the terms and conditions of the Agreements and the provisions of this Order.
- 23. Notwithstanding any provision of this Order, upon the Effective Date of the Plans, the Reclamation Agreements shall control matters relating to reclamation duties with respect to the permits transferred to the Purchasers, and the terms of the Reclamation Agreements, including the releases contained therein, shall be binding and enforceable upon the parties thereto in accordance with the terms thereof. Reclamation Claims will be governed by applicable non-bankruptcy law and the Reclamation Agreements. Nothing in this Order shall deprive any agency, court, or tribunal of any jurisdiction that it would otherwise have over any matter relating to reclamation duties of Newcoal or any Additional Purchaser after the Effective Date with respect to permits assumed under the Newcoal Agreement, the Oldcoal Agreement, or the

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Massey Agreement, as applicable. In no event will any of Newcoal (as to the Designated Assets), Oldcoal (as to the Additional APA Assets transferred under the Oldcoal Agreement) or Massey (as to the Additional APA Assets transferred under the Massey Agreement) have liability related to property or permits not owned or operated by each of them, respectively, so long as, after the Effective Date of the Plan, it is neither an owner or operator of such property or permit nor arranges for the disposal of hazardous substances on such property.

Notwithstanding anything in this Order to the contrary, nothing in this Order releases, waives or nullifies any liability obligation or duty that Newcoal (as to the Designated Assets), Oldcoal (as to the Additional APA Assets transferred under the Oldcoal Agreement) or Massey (as to the Additional APA Assets transferred under the Massey Agreement) or their respective successors may have under reclamation or environmental laws to a governmental entity by virtue of being an owner or operator of property or permits after the Effective Date; and in no event will (i) any of Newcoal (as to the Designated Assets), Oldcoal (as to the Additional APA Assets transferred under the Oldcoal Agreement) or Massey (as to the Additional APA Assets transferred under the Massey Agreement) have liability related to property or permits not owned or operated by each of them, respectively, so long as, after the Effective Date, it is neither an owner or operator of such property or permit and does not arrange for the disposal of hazardous substances on such property, and (ii) any of them have liability arising from events or circumstances occurring prior to the Effective Date and related to property or permits owned or operated by it or its successors after the Effective Date, except to the extent that any such liability arises by virtue of being an owner or operator of property or permits after the Effective Date, or as provided in the Newcoal Agreement, the Oldcoal Agreement or the Massey Agreement, as applicable.

- 25. Notwithstanding any provision of this Order, including paragraphs L through S and ordered paragraphs 3, 6, 7, 9, 11 and 14 through 17, the terms of the Reclamation Agreements and applicable nonbankruptcy law shall govern, solely as to the Reclamation Claimants and the Environmental Protection Agency ("EPA") and state agencies enforcing the Clean Water Act ("CWA") and/or the Tennessee Water Quality Control Act ("TWQCA") (collectively, the "Government Agencies"), reclamation, CWA and/or TWQCA duties related to the Debtors' permits and the enforcement of such duties by the Government Agencies. This paragraph shall apply solely to the Government Agencies and shall not apply to any other party.
- 26. Subject to each Purchaser's compliance with the Reclamation Agreements and the Bonding Term Sheets, such Purchaser shall be authorized, as of the applicable Closing Date, to operate under any license, permit, registration and governmental authorization or approval of the Debtors with respect to the relevant Purchased Assets, and all such licenses, permits, registrations and governmental authorizations and approvals are deemed to have been, and hereby are directed to be transferred to such Purchaser as of the applicable Closing Date, except to the extent otherwise provided in the relevant Agreement.
- 27. This Order is and shall be binding upon and govern the acts of all entities, including, without limitation, all filing agents, filing officers, title agents, title companies, recorders of mortgages, recorders of deeds, registrars of deeds, administrative agencies, governmental departments, secretaries of state, federal and local officials, and all other persons and entities who may be required by operation of law, the duties of their office, or contract, to accept, file, register or otherwise record or release any documents or instruments, or who may be required to report or insure any title or state of title in or to any lease; and each of the foregoing persons and entities is hereby directed to accept for filing any and all of the documents and

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instruments necessary and appropriate to consummate the transactions contemplated by the Agreement.

- 28. This Order constitutes authorization under all applicable jurisdictions' versions of the Uniform Commercial Code for each Purchaser to file UCC termination statements with respect to all security interests in or liens on the applicable Purchased Assets.
- 29. The failure specifically to include any particular provision of any Agreement in this Order shall not diminish or impair the effectiveness of such provision, it being the intent of the Court that each Agreement be authorized and approved in its entirety.
- 30. Each Agreement and any related agreements, documents or other instruments may be modified, amended or supplemented by the parties thereto and in accordance with the terms thereof, without further order of the Court, provided that any such modification, amendment or supplement does not have a material adverse effect on the Debtors' estates or any effect on Environmental Claims or the Purchasers' compliance with the Reclamation Agreements.
- 31. This Court shall retain jurisdiction over the transactions contemplated in the Agreements for purposes of enforcing the provisions of this Order and the Agreements.
- 32. Pursuant to Local Rule 9022-1(c), counsel to the Debtors shall serve this Order on the parties entitled to receive this Order, and shall file with the Court a certificate of service within ten (10) days hereof.

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The affixing of this Court's electronic seal below is proof this document has been signed by the Judge and electronically entered by the Clerk in the official record of this case.



Signed By: William S. Howard
Bankruptcy Judge
Dated: Thursday, September 16, 2004
(wsh)

EXHIBIT A

CURE SCHEDULE TO NEWCOAL, LLC ASSET PURCHASE AGREEMENT

Schedule 3.3(a)(iii)

Cure Costs

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Schedule 3.3(a)(III)

AVDERIDE	Y	A BUTTO	COB	A CT A	NIV

	ING	PRE-FIL							
TOTAL	EARNED	ADVANCE	PAYEE	CONTRACT	STATE	AREA			
\$1.2	\$0.00	\$1.25	SOCIETY NATIONAL BANK OF CLEVELAND (1903725)	DMK-281-0360-0000	IL.	DENMARK DEEP			
\$1.2	MPC-251-0309-00001	TOTAL PRE-PILING DI							
\$19.3	\$0.00	\$19,38	SOCIETY NATIONA BANK OF CLEVELAND (1003725)	DMK-261-0384-0000					
\$10.3	MK-251-0354-0800:	TOTAL PREVILING DI	to Committee of the Com						
\$258.0	\$0.00	\$258.00	DE AROSEMENA, BARBARA W (1008625)	DMK-281-0471-0000					
\$256.0	MIX-201-0471-0000:	TOTAL PRE-FILING D							
\$175.0	\$0.00	\$175.00	BONDI, JOHN (1004892)	DMK-251-0474-0000					
\$175.0	MIC-351-8474-0808:	TOTAL PRE-FILING D							
\$43.7	\$0.00	\$43.75	JENKINS, JOHN R (1008879)	DMK-281-0475-0000					
\$43.7	\$0.00	843.75	JENKINS, PAMELA (1008881) METZLER, NANCY (1005882)						
\$43.7 \$43.7	\$0.00 \$0.00	\$43.75 \$43.75	JENKINS, STEPHEN R (1005880)						
\$175.0		TOTAL PRE-FILING	galacted, or to the text to the second						
WHEELE 6267	ARROTECHAR EARLAND	AND ALTONOOMIC STREET,	The second second			FORTH TRANSFER OF U.S.			
\$626.6	SHIRE LAND:	TOTAL FOR AYE							

APPALACHIAN REALTY

				PRE-F	ILING	
AREA	STATE	CONTRACT	PAYEE	ADVANCE	EARNED	TOTA
KENTUCKY PRINCE	KY	MCI-001-0526-0000 10-0	KENTUCKY RIVER COAL CORPORATION (06780A)		\$28,644.42	\$28,644.4
			KENTUCKY RIVER COAL CORPORATION (06780A)		\$12,614.74	\$12,614,7
			KENTUCKY RIVER PROPERTIES, LLC		\$15,982.41	\$16,982.4
			(1011043)	TOTAL PRE-FILING	MCI-001-6626-4840:	\$58,241.
		7. W.		LIEUTE REGUE		e Miens
LAND MANAGEMENT	KY	200037	KENTUCKY RIVER COAL CORPORATION (08780A)		\$11,245.13	\$11,245.
		200037 7-02	KENTUCKY RIVER COAL CORPORATION (08780A)		\$3,773.30	\$3,773.
		200037 9-02	KENTUCKY RIVER COAL CORPORATION (06750A)		\$199.64	\$199.
		200037	KENTUCKY RIVER COAL CORPORATION (06760A)		\$19,532.03	\$19,532
				TOTAL	PREFLING 100037:	\$34,780
		MCI-001-0515-0000 03/	GOODLOE, MARK HALCOMBE (1004889)	\$21.04	\$21
			COOKE, SARA GOODLOE (1004881)		3145.08	\$148
			E BATEMAN, PATRICIA JOAN (1004852)		\$11,48	\$11
			X BELL, LOUISE (SMITH) (1004848)		\$91.78	\$91
		MCI-001-0515-0000 10-0	DE BROADWATER, DOROTHY GOODLOE OR JOHN D. (1004848)		\$218.53	\$216
		MCI-001-0515-0000 10-	X BROADWATER, JOHN D. (1004844)		\$109.28	\$109
			BYRD, JULIA GOODLOE (1004842)		3437.05	8437
		MCL001-0515-0000 10-	CARVER, JUNE GOODLOE (1004843)		\$218.53	\$21
		MCI-001-0515-0000 10-	0: EVANS, ELIZABETH GOODLOE (1004867)		142.63	843
		MCI-001-0515-0000 10-	O: GOODLOE, JOHN EDWARD (1804871)		\$10.71	\$11
		MCI-001-0515-0000 10-	0: GOODLOE, JOHN M. (1004858)		\$85,68	3.8
		MCI-001-0516-0000 10-	D: GODOLOE, MARK HALCOMBE (100486	9)	\$10.71	\$10
		MCI-001-0515-0000 10-	O: GOODLOE, MARTIN THOMAS (1004870)}	\$10.71	81
			0: GDODLDE, THOMAS K (1004848)		\$109.26	310
			0: GOODLOE, JR., EDWARD G (1004869)		\$85,88	30
			0; GOODLOE, JR., JOHN A (1004865)		\$42.03	34
		MCI-001-0515-0000 10-	0; GOODLOE, JR., MATTHEW MAURY (1004565)		\$10.71	\$10

Schedule 3.3(e)(N

MCI-001-0515-0000 10-0; THOMAS W. GOO TRUST) (1010149)		\$145,68
MCI-001-0515-0000 10-0; HOLLAND, CORNI (1004863)	ELIA GOODLOE \$145.98	\$145.58
MCH001-0515-0000 10-0; JOLLEY, ELAINE ((4004953)	
MCI-001-0515-0000 10-0; KRAUT, JEANNE !		\$11,48 \$109,26
(1004847)	17 D (400 (870)	V40000000000
MCI-001-0616-0000 10-0; MAYES, CAROLIN		\$109.26
MCI-001-0516-0000 10-0; MILLER, JOHN RA		\$29.43
MCI-001-0615-0000 10-0: MILLER, THOMAS		\$29.43
MC1-001-0615-0000 10-0; MILLER, WILLARD		829.43
MCI-001-0515-0000 10-0; MILLER, WILLARD (1909822)		\$88.24
MCI-001-0515-0000 10-0; REDNER, JUDITH	SMITH (1004851) \$22,95	\$22.95
MCI-001-0515-0000 10-0; SMITH, THEODOI		\$22,95
MCI-001-0515-0000 10-0: SMITH, THOMAS	A. (1004849) 822.95	\$22.95
MCI-001-0515-0000 10-0; SPOHN, DAVID B	. (1004860) 8171.32	\$171.32
MCI-001-0515-0000 10-0; WILLIAMS, ANNE TRUST) (1004866	GOODLOE (FAMILY \$42.63	\$42.83
MCI-001-0615-0000 2/02 BROADWATER,	JOHN D. (1004844) \$190.38	\$190.38
MCI-001-0515-0000 5-02 BROADWATER, I	DOROTHY GOODLOE \$1,884.88	\$1,884.88
OR JOHN D. (100	4846)	\$1,004.00
MCI-001-0515-0000 5-02 MAYES, CAROLE	NE B (1004872) \$942.43	\$942.43
MCI-001-0515-0000 6-02 COOKE, SARA G	OODLOE (1004861) \$657.15	
MCI-001-0515-0000 7/02 BYRD, JULIA GO		\$657.15
MCI-001-0516-0000 MO2 BROADWATER, I	ODLOE (1904842) \$2,149,66	\$2,149.86
MCI-001-0516-0000 B02 BNDADWATER, I	DOROTHY GOODLOE \$1,157.70	81,157.70
OR JOHN D. (100	14845)	27000000 77400
MCI-001-0515-0000 WOZ BROADWATER,		\$578.85
MCI-001-0515-0000 8/02 BYRD, JULIA GO		\$2,315.38
MCI-001-0515-0000 8/02 GOODLOE, MAR	K HALCOMBE (1004869) \$58.73	\$58.73
MCI-001-0515-0000 8-02 GOODLOE, JOH	N EDWARD (1004871) \$56.73	456,73
MCI-001-0515-0000 9-02 BATEMAN, PATR		\$51.58
MCI-001-0515-0000 9-02 BELL, LOURSE (S		3412.54
MCI-001-0515-0000 P-02 BROADWATER,	DOROTHY GOODLOE \$882.24	3382.24
OR JOHN D. (10)	04845)	
MCI-001-0515-0000 9-02 BROADWATER,	JOHN D. (1004844) \$491.12	\$491.12
MCI-001-0515-0000 9-02 BYRD, JULIA GO		\$1,964.47
MCI-001-0515-0000 9-02 CARVER, JUNE	GOODLOE (1004843) \$982.24	\$982.24
MCI-001-0515-0000 9-02 COOKE, SARA G	SOODLOE (1004861) \$654.82	8654.82
MCI-001-0515-0000 9-02 EVANS, ELIZABE (1004867)	ETH GOODLOE \$192.52	\$192.52
MCI-001-0515-0000 9-02 GOODLOE, JOH	N EDWARD (1004871) \$48.13	\$48.13
MCI-001-0518-0000 B-02 GOODLDE, JOH	IN M. (1004858) 3385.02	\$385.02
MCI-001-0515-0000 B-02 GOODLOE, MAF	RK HALCOMBE (1004869) \$48.13	\$48,13
A CONTRACTOR OF THE CONTRACTOR	STATE OF THE STATE	
MCI-001-0515-0000 9-02 GOODLOE, MAF	RTIN THOMAS (1004870) 848,13	\$48.13
MCI-001-0515-0000 9-02 GOODLOE, THO	DMAS K (1004846) \$491.12	\$491.12
MCI-001-0518-0000 9-02 GOODLOE, JR.,		\$385.02
MCI-001-0515-0000 9-02 GDOOLOE, JR.,		\$192.52
MCI-001-0515-0000 8-02 GOODLOE, JR.,		\$48.13
(1004868)		
MCI-001-0615-0000 9-02 HOLLAND, COR (1004883)	INELIA GOODLOE \$654.82	\$654.82
MCI-001-0515-0000 9-02 JOLLEY, ELAIN	E (1004853) \$51.58	\$51.58
MCI-001-0515-0000 9-02 KRAUT, JEANN		\$491.12
(1004847)		
MCI-001-0515-0000 9-02 MAYES, CAROL	LINE B (1004872) \$491.12	\$491.12
MCI-001-0515-0000 9-02 MILLER, JOHN	RANDOLPH (1004856) \$132.27	\$132.27
MCI-001-0515-0000 9-02 MILLER, THOM	AS LAWSON (1004857) \$132.27	\$132.27
MCI-001-0515-0000 9-02 MILLER, WILLA	RD CRAIG (1004855) \$132.27	\$132.27
MCI-001-0515-0000 9-02 MILLER, WILLA	RD H. & MARY PATRICIA \$398.82	\$396.82
(1009922) MCI-001-0516-0000 9-02 REDNER, JUDI	TH SMITH (1004851) \$103.13	\$103.13
MCI-001-0515-0000 9-02 SMITH, THEOD	ORE A. (1004850) \$103.13	\$103.13
MCI-001-0516-0000 9-02 SMITH, THOMA		\$103.13
MCI-001-0515-0000 9-02 SPOHN, DAVID		\$770.07
MCI-001-0515-0000 8-02 THOMAS W. G. TRUST) (10101		3654.82
MCI-001-0515-0000 9-02 WILLIAMS, AN	NE GOODLOE (FAMILY \$192.62	\$192.52
TRUST) (10048		
	(SMITH) (1004848) \$120.11	\$129.11
	R, DOROTHY GOODLOE \$307.41	\$307.41
OR JOHN D. (1		***
	R, JOHN D. (1004844) \$153.70	8153.70
	300DL0E (1004842) \$614.82	\$614,62
MCI-001-0515-PRE CARVER, JUN	E GOODLOE (1004843) \$307.41	\$307.41

Schedule 3.3(a)(iii)

		MCI-001-0515-PRE	COOKE, SARA GOODLOE (1004881)	\$204.94	\$204.94
	A	MCI-001-0515-PRE	EVANS, ELIZABETH GOODLOE (1004867)	\$60.25	\$60.25
		MCI-001-0815-PRE	GOODLOE, JOHN EDWARD (1004871)	\$15.06	\$15.06
		MCI-001-0515-PRE	GOODLOE, JOHN M. (1004858)	\$120.50	8120,60
		MCI-001-0515-PRE	GOODLOE, MARK HALCOMBE (1004869)	\$15,06	\$15.06
	1	MCI-001-0515-PRE	GOODLOE, MARTIN THOMAS (1004870)	\$15.05	\$15.06
		MCI-001-0515-PRE	GOODLOE, THOMAS K (1004846)	8153.70	\$153,70
		MCI-001-0616-PRE	GOODLDE, JR., EDWARD G (1004859)	\$120.50	\$153.70 \$120.50
		MCI-001-0615-PRE	GOODLOE, JR., JOHN A (1004885)	\$60.25	\$60.25
		MC1-001-0515-PRE	GOODLOE, JR., MATTHEW MAURY	\$15.08	\$15.06
		1101 and 0515 DDF	(1004968) HOLLAND, CORNELIA GOODLOE	****	
		MCI-001-0515-PRE	(1004863)	\$204,94	\$204.94
		MCI-001-0515-PRE	BATEMAN, PATRICIA JOAN (1004852)	\$16,14	\$18.14
		MCI-001-0615-PRE	JOLLEY, ELAINE (1004883)	\$16.14	\$16.14
		MCI-001-0515-PRE	KRAUT, JEANNE L. (TRUSTEE) (1004847)	\$153.71	\$153.71
		MCH001-0515-PRE	MAYES, CAROLINE 8 (1004872)	\$153.70	\$153.70
		MCI-001-0515-PRE	MILLER, JOHN RANDOLPH (1004856)	\$41.40	841,40
		MCI-001-0518-PRE	MILLER, THOMAS LAWSON (1004857)	\$41.40	\$41.40
		MCI-001-0515-PRE	MILLER, WILLARD CRAIG (1004855)	\$41.40	\$41.40
		MCI-001-0515-PRE	MILLER, WILLARD H. & MARY PATRICIA	\$124.19	\$124.19
		MCI-001-0515-PRE	(1009922) REDNER, JUDITH SMITH (1004851)	\$32.26	£25.00
		MCI-001-0515-PRE	SMITH, THEODORE A. (1004850)	\$32.26 \$32.26	\$32.28 \$32.28
		MCI-001-0515-PRE	SMITH, THOMAS A. (1004849)	\$32.28	
		MCI-001-0515-PRE	SPOHN, DAVID B. (1004860)	8241.01	\$32.28 \$241.01
		MCI-001-0515-PRE	THOMAS W. GOODLOE, JR. (Q-TIP	3204.94	\$204.94
		MCI-001-0515-PRE	TRUST) (1010146) WILLIAMS, ANNE GOODLOE (FAMILY	380 25	\$60,25
		MCP007-Da15-PAL	TRUST) (1004866)	TOTAL PRE-FILING MCI-031-0418:	
				TOTAL PRE-PILING MC1401-0418:	\$28,108.94
CONTRACTOR OF THE PERSON OF TH			77 77 77 FOR THE PROPERTY OF THE PARTY OF TH		TACTOR!
St (2 5 6 6)	*	11 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	TOTAL	FOR APPALACHIAN REALTY:	\$121,144.26
		THE RESERVE TO SERVE THE PARTY OF THE PARTY			
CC COAL CO.					
		001178157	nave .	PRE-FILING	
AREA		CONTRACT	PAYEE	ADVANCE EARNED	TOTAL
	STATE	CONTRACT WV-038-011 11-02	PAYEE PACK, ROBERT L. (1000856)		\$1,200.00
AREA RIVER POINT DOCK	wv	WV-038-011 11-02	PACK, ROBERT L. (1000858)	ADVANCE EARNED \$1,200.00 TOTAL PRE-FILING WV-038-011:	\$1,200.00 \$1,200.00
AREA	wv	WV-038-011 11-02	PACK, ROBERT L. (1000858)	S1,200,00 TOTAL PRE-PLING WY-038-911: DAGO ROTER DOLLAR CARRES	\$1,200.00 \$1,200.00
AREA RIVER POINT DOCK	wv	WV-038-011 11-02	PACK, ROBERT L. (1000858)	ADVANCE EARNED \$1,200.00 TOTAL PRE-FILING WV-038-011:	\$1,200.00 \$1,200.00
AREA RIVER POINT DOCK	WV	WV-038-011 11-02	PACK, ROBERT L. (1000858)	S1,200,00 TOTAL PRE-PLING WY-038-911: DAGO ROTER DOLLAR CARRES	\$1,200.00 \$1,200.00
AREA RIVER POINT DOCK	WV	WV-038-011 11-02	PACK, ROBERT L. (1000858)	ADVANCE EARNED \$1,00.00 10 TOTAL PRE-PLING W-491-911: TOTAL FOR CC COAL:	\$1,200.00 \$1,200.00
AREA RIVER POINT DOCK	WV KY EN	WV-038-011 11-02	PACK, ROBERT L. (1000858)	S1,200,00 TOTAL PRE-PLING WY-038-911: DAGO ROTER DOLLAR CARRES	\$1,200.00 \$1,200.00
AREA RIVER POINT DOCK EAST KENTUCI	WV KY EN	WV-038-011 11-02 ERGY CORP.	PACK, ROBERT L. (1000858)	ADVANCE EARNED \$1,200.00 TOTAL PREFILING WY-4918-911: TALSON ROBERDING STUDING REAL AND TOTAL FOR CC GOAL: PRE-FILING	\$1,200.00 \$1,200.00 \$1,200.00 \$1,200.00
AREA RIVER POINT DOCK EAST KENTUCI AREA	WV KY EN	WV-038-011 11-02 ERGY CORP.	PACK, ROBERT L. (1000858)	ADVANCE EARNED \$1,00,00 TOTAL PAS-PLING W-491-911: TOTAL FOR CC COAL: PRE-PILING ADVANCE EARNED \$5,970.82	\$1,200.00 \$1,200.00 \$1,200.00 \$1,200.00 TOTAL
AREA RIVER POINT DOCK EAST KENTUCI AREA	WV KY EN	WV-038-011 11-02 ERGY CORP.	PACK, ROBERT L. (1000858) PAYEE KNIGHT-INK HEIRS C/O ADKINS & KNIGHT-INK HEIRS C/O ADKINS &	ADVANCE EARNED \$1,20,00 TOTAL PRE-FILING W-451-4-11: TOTAL FOR CC GOAL: PRE-FILING ADVANCE EARNED \$8,870.82 \$25,516.49	\$1,200.00 \$1,200.00 \$1,200.00 \$1,200.00 TOTAL \$8,879.82 \$28,518.48
AREA RIVER POINT DOCK EAST KENTUCI AREA	WV KY EN	WV-038-011 11-02 ERGY CORP.	PACK, ROBERT L. (1000858) TOTAL ICE R PAYEE KNIGHT-INK HEIRS C/O ADKINS &	ADVANCE EARNED \$1,00,00 TOTAL PAS-PLING W-491-911: TOTAL FOR CC COAL: PRE-PILING ADVANCE EARNED \$5,970.82	\$1,200.00 \$1,200.00 \$1,200.00 \$1,200.00 TOTAL
AREA RIVER POINT DOCK EAST KENTUCI AREA	WV KY EN	WV-038-011 11-02 ERGY CORP.	PACK, ROBERT L. (1000858) PAYEE INIGHT-INK HEIRS C/O ADKINS & KNIGHT-INK HEIRS C/O ADKINS & KNIGHT-INK HEIRS C/O ADKINS &	ADVANCE EARNED \$1,200.00 TOTAL PRE-FILING WY-031-911: TOTAL FOR CC COAL: PRE-FILING ADVANCE EARNED \$8,870.82 \$28,516.49 \$14,100.02	\$1,200.00 \$1,200.00 \$1,200.00 \$1,200.00 TOTAL \$8,570.82 \$26,518.48 \$14,100.02
AREA RIVER POINT DOCK EAST KENTUCI AREA	WV KY EN	WV-038-011 11-02 ERGY CORP.	PACK, ROBERT L. (1000858) PAYEE KNIGHT-INK HEIRS C/O ADKINS & KNIGHT-INK HEIRS C/O ADKINS &	ADVANCE EARNED \$1,00.00 TOTAL PAS-FILING WY-031-911: TOTAL FOR CC COAL: PRE-FILING ADVANCE EARNED \$0,870.82 \$26,516.49 \$14,100.02 TOTAL PRE-FILING WY-09083501: \$247.11	\$1,200.00 \$1,200.00 \$1,200.00 \$1,200.00 TOTAL \$8,870.82 \$20,518.48 \$14,100.00 \$49,487.53
AREA RIVER POINT DOCK EAST KENTUCI AREA	WV KY EN	ERGY CORP. CONTRACT WV00003001	PACK, ROBERT L. (1000858) PAYEE INIGHT-INK HEIRS C/O ADKINS & KNIGHT-INK HEIRS C/O ADKINS & KNIGHT-INK HEIRS C/O ADKINS &	ADVANCE EARNED \$1,200,00 TOTAL PRE-FILING WASH-911: TOTAL FOR CC COAL: PRE-FILING ADVANCE EARNED \$8,870.82 \$22,516.49 \$14,100.02 TOTAL PRE-FILING WASH-9011:	\$1,200.00 \$1,200.00 \$1,200.00 \$1,200.00 \$1,200.00 TOTAL \$8,870.82 \$20,516.40 \$14,100.02 \$49,487.33
AREA RIVER POINT DOCK EAST KENTUCI AREA	WV KY EN	ERGY CORP. CONTRACT WV00003001	PACK, ROBERT L. (1000858) PAYEE KNIGHT-INK HEIRS C/O ADKINS & KNIGHT-INK HEIRS C/O ADKINS & KNIGHT-INK HEIRS C/O ADKINS & WHITFIELD, HELEN KAY (1011410)	ADVANCE EARNED \$1,200.00 TOTAL PAS-PLING WY-431-411: TOTAL FOR CC COAL: PRE-PILING ADVANCE EARNED \$5,970.82 \$25,516.49 \$14,100.02 TOTAL PRE-PILING WY-44;	\$1,200.00 \$1,200.00 \$1,200.00 \$1,200.00 \$1,200.00 TOTAL \$8,970.82 \$20,516.49 \$14,100.00 \$49,487.33
AREA RIVER POINT DOCK EAST KENTUCI AREA	WV KY EN	ERGY CORP. CONTRACT WV00003001	PACK, ROBERT L. (1000858) PAYEE INIGHT-INK HEIRS C/O ADKINS & KNIGHT-INK HEIRS C/O ADKINS & KNIGHT-INK HEIRS C/O ADKINS &	ADVANCE EARNED \$1,00.00 TOTAL PAS-FILING WY-031-911: TOTAL FOR CC COAL: PRE-FILING ADVANCE EARNED \$0,870.82 \$26,516.49 \$14,100.02 TOTAL PRE-FILING WY-09083501: \$247.11	\$1,200.00 \$1,200.00 \$1,200.00 \$1,200.00 TOTAL \$8,870.82 \$20,518.48 \$14,100.00 \$49,487.53
AREA RIVER POINT DOCK EAST KENTUCI AREA EVERGREEN	KY EN	ERGY CORP. CONTRACT WV00003001 WV-N-5 WV-S-1	PACK, ROBERT L. (1000858) PAYEE RNIGHT-INK HEIRS C/O ADKINS & KNIGHT-INK HEIRS C/O ADKINS & KNIGHT-INK HEIRS C/O ADKINS & WHITFIELD, HELEN KAY (1011410) SELMAN, BOYD F (1009182)	ADVANCE EARNED \$1,00.00 TOTAL PRE-FILING WY-451-411: TOTAL FOR CC GOAL: PRE-FILING ADVANCE EARNED \$0,870.82 \$25,516.49 \$14,100.02 TOTAL PRE-FILING WY-451: \$247.11 TOTAL PRE-FILING WY-4-1: \$1,000.00 TOTAL PRE-FILING WY-4-1:	\$1,200.00 \$1,200.00 \$1,200.00 \$1,200.00 \$1,200.00 TOTAL \$8,870.62 \$20,518.48 \$14,100.02 \$49,487.53 \$247.11 \$247.11 \$247.11
AREA RIVER POINT DOCK EAST KENTUCI AREA EVERGREEN	KY EN	ERGY CORP. CONTRACT WV00003001 WV-N-5 WV-S-1	PACK, ROBERT L. (1000858) PAYEE KNIGHT-INK HEIRS C/O ADKINS & KNIGHT-INK HEIRS C/O ADKINS & KNIGHT-INK HEIRS C/O ADKINS & WHITFIELD, HELEN KAY (1011410)	ADVANCE EARNED \$1,00.00 TOTAL PRE-FILING WY-451-411: TOTAL FOR CC GOAL: PRE-FILING ADVANCE EARNED \$0,870.82 \$25,516.49 \$14,100.02 TOTAL PRE-FILING WY-451: \$247.11 TOTAL PRE-FILING WY-4-1: \$1,000.00 TOTAL PRE-FILING WY-4-1:	\$1,200.00 \$1,200.00 \$1,200.00 \$1,200.00 \$1,200.00 TOTAL \$8,870.62 \$20,518.48 \$14,100.02 \$49,487.53 \$247.11 \$247.11 \$247.11
AREA RIVER POINT DOCK EAST KENTUCI AREA EVERGREEN	KY EN	ERGY CORP. CONTRACT WV00003001 WV-N-5 WV-S-1	PACK, ROBERT L. (1000858) PAYEE RNIGHT-INK HEIRS C/O ADKINS & KNIGHT-INK HEIRS C/O ADKINS & KNIGHT-INK HEIRS C/O ADKINS & WHITFIELD, HELEN KAY (1011410) SELMAN, BOYD F (1009182) TWELVEPOLE LTD PARTNERSHIP	ADVANCE EARNED \$1,00.00 TOTAL PRE-FILING WY-451-411: TOTAL FOR CC GOAL: PRE-FILING ADVANCE EARNED \$0,870.82 \$25,516.49 \$14,100.02 TOTAL PRE-FILING WY-451: \$247.11 TOTAL PRE-FILING WY-4-1: \$1,000.00 TOTAL PRE-FILING WY-4-1:	\$1,200.00 \$1,200.00 \$1,200.00 \$1,200.00 \$1,200.00 TOTAL \$8,870.62 \$20,518.48 \$14,100.02 \$49,487.53 \$247.11 \$247.11 \$247.11
AREA RIVER POINT DOCK EAST KENTUC! AREA EVERGREEN	KY EN	ERGY CORP. CONTRACT WV00003001 WV-N-5 WV-S-1	PACK, ROBERT L. (1000858) PAYEE INIGHT-INK HEIRS C/O ADKINS & KNIGHT-INK HEIRS C/O ADKINS & KNIGHT-INK HEIRS C/O ADKINS & WHITFIELD, HELEN KAY (1011410) SELMAN, BOYD F (1009182) TWELVEPOLE LTD PARTNERSHIP (15658) TWELVEPOLE LTD PARTNERSHIP TYPELVEPOLE LTD PARTNERSHIP	ADVANCE EARNED \$1,00.00 TOTAL PAS-FILING WY-031-911: TOTAL FOR CC COAL: PRE-FILING ADVANCE EARNED \$0,870.82 \$20,516.49 \$14,100.02 TOTAL PRE-FILING WY-14: \$1,000.00 TOTAL PRE-FILING WY-14: \$1,000.00 TOTAL PRE-FILING WY-14: \$1,000.00	\$1,200.00 \$1,200.00 \$1,200.00 \$1,200.00 \$1,200.00 \$1,200.00 \$1,200.00 \$22,518.49 \$14,100.02 \$44,487.33 \$247.11 \$1,000.00 \$1,000.00
AREA RIVER POINT DOCK EAST KENTUC! AREA EVERGREEN	KY EN	ERGY CORP. CONTRACT WV00003001 WV-N-5 WV-S-1	PACK, ROBERT L. (1000858) PAYEE KNIGHT-INK HEIRS C/O ADKINS & KNIGHT-INK HEIRS C/O ADKINS & KNIGHT-INK HEIRS C/O ADKINS & WHITFIELD, HELEN KAY (1011410) SELMAN, BOYD F (1009182) TWELVEPOLE LTD PARTNERSHIP (15658)	ADVANCE EARNED \$1,200.00 TOTAL PAS-PILING WY-491-911: TOTAL FOR CC COAL: PRE-PILING ADVANCE EARNED \$5,870.82 \$26,516.49 \$14,100.02 TOTAL PRE-PILING WY-44; \$1,000.00 TOTAL PRE-PILING WY-44; \$1,000.00 TOTAL PRE-PILING WY-45; \$10,600.00 \$247.11 TOTAL PRE-PILING WY-45; \$10,600.00 \$10,600.	\$1,200.00 \$1,200.00 \$1,200.00 \$1,200.00 \$1,200.00 \$1,200.00 \$1,200.00 \$20,518.48 \$14,100.02 \$49,487.31 \$247.11 \$1,000.00 \$1,000.00 \$1,000.00 \$1,000.00 \$455.79
AREA RIVER POINT DOCK EAST KENTUC! AREA EVERGREEN	KY EN	ERGY CORP. CONTRACT WV00003001 WV-N-5 WV-S-1 WVL471A 9-02 WVL471A PRE	PACK, ROBERT L. (1000858) PAYEE KNIGHT-INK HEIRS C/O ADKINS & KNIGHT-INK HEIRS C/O ADKINS & KNIGHT-INK HEIRS C/O ADKINS & WHITFIELD, HELEN KAY (1011410) SELMAN, BOYD F (1008182) TWELVEPOLE LTD PARTNERSHIP (15658) TWELVEPOLE LTD PARTNERSHIP (15658)	ADVANCE EARNED \$1,200.00 TOTAL PAS-PILING WY-491-911: TOTAL FOR CC COAL: PRE-PILING ADVANCE EARNED \$5,870.82 \$26,516.49 \$14,100.02 TOTAL PRE-PILING WY-4-1: \$1,000.00 TOTAL PRE-PILING WY-4-1: \$1,000.00 TOTAL PRE-PILING WY-4-1: \$1,000.00 \$10,000 TOTAL PRE-PILING WY-4-1: \$1,000.00 \$10,898.09	\$1,200.00 \$1,200.00 \$1,200.00 \$1,200.00 \$1,200.00 \$1,200.00 \$1,200.00 \$20,518.48 \$14,100.02 \$247.11 \$247.11 \$1,000.00 \$1,000.00 \$1,000.00 \$4,500.00 \$4,500.00 \$4,500.00 \$4,500.00 \$4,500.00
AREA RIVER POINT DOCK EAST KENTUC! AREA EVERGREEN	KY EN	ERGY CORP. CONTRACT WV00003001 WV-N-5 WV-S-1 WVL471A 9-02 WVL471A PRE WVL471A PRE	PACK, ROBERT L. (1000858) PAYEE KNIGHT-INK HEIRS C/O ADKINS & KNIGHT-INK HEIRS C/O ADKINS & KNIGHT-INK HEIRS C/O ADKINS & WHITFIELD, MELEN KAY (1011410) SELMAN, BOYD F (1009182) TWELVEPOLE LTD PARTNERSHIP (15658) TWELVEPOLE LTD PARTNERSHIP (15658) TWELVEPOLE LTD PARTNERSHIP (15658)	ADVANCE EARNED \$1,200.00 TOTAL PAS-PLING WY-038-911: TOTAL FOR CC COAL: PRE-FILING ADVANCE EARNED \$6,870.82 \$26,516.49 \$14,100.02 TOTAL PRE-FILING WY-04-1: TOTAL PRE-FILING WY-04-1: \$10,000.00 TOTAL PRE-FILING WY-04-1: \$10,000.00 TOTAL PRE-FILING WY-04-1: \$10,000.00 TOTAL PRE-FILING WY-04-1: \$10,000.00 TOTAL PRE-FILING WY-04-1:	\$1,200.00 \$1,200.00 \$1,200.00 \$1,200.00 \$1,200.00 \$1,200.00 \$20,518.49 \$14,100.00 \$44,400.00 \$44,400.00 \$40,487.33 \$247.11 \$247.11 \$1,000.00 \$4,000.00 \$4,557.9 \$4,438.17
AREA RIVER POINT DOCK EAST KENTUC! AREA EVERGREEN	KY EN	ERGY CORP. CONTRACT WV00003001 WV-N-5 WV-S-1 WVL471A 9-02 WVL471A PRE	PACK, ROBERT L. (1000858) PAYEE RNIGHT-INK HEIRS C/O ADKINS & KNIGHT-INK HEIRS C/O ADKINS & KNIGHT-INK HEIRS C/O ADKINS & WHITFIELD, HELEN KAY (1011410) SELMAN, BOYD F (1009182) TWELVEPOLE LTD PARTNERSHIP (15658) TWELVEPOLE LTD PARTNERSHIP (15658) TWELVEPOLE LTD PARTNERSHIP (15658) SOVEREIGN POCAHONTAS COMPANY	ADVANCE EARNED \$1,200.00 TOTAL PAS-PILING WY-491-911: TOTAL FOR CC COAL: PRE-FILING ADVANCE EARNED \$5,970.82 \$29,516.49 \$14,100.02 TOTAL PRE-FILING WY-44; \$10,000.00 TOTAL PRE-FILING WY-44; \$10,000.00 TOTAL PRE-FILING WY-44; \$10,000.00 \$247.11 TOTAL PRE-FILING WY-44; \$10,000.00 \$100.0	\$1,200.00 \$1,200.00 \$1,200.00 \$1,200.00 \$1,200.00 \$1,200.00 \$1,200.00 \$20,518.48 \$14,100.02 \$247.11 \$247.11 \$1,000.00 \$1,000.00 \$1,000.00 \$4,500.00 \$4,500.00 \$4,500.00 \$4,500.00 \$4,500.00
AREA RIVER POINT DOCK EAST KENTUC! AREA EVERGREEN	KY EN	ERGY CORP. CONTRACT WV00003001 WV-N-5 WV-S-1 WVL471A 9-02 WVL471A PRE WVL471A PRE	PACK, ROBERT L. (1000858) PAYEE KNIGHT-INK HEIRS C/O ADKINS & KNIGHT-INK HEIRS C/O ADKINS & KNIGHT-INK HEIRS C/O ADKINS & WHITFIELD, MELEN KAY (1011410) SELMAN, BOYD F (1009182) TWELVEPOLE LTD PARTNERSHIP (15658) TWELVEPOLE LTD PARTNERSHIP (15658) TWELVEPOLE LTD PARTNERSHIP (15658)	ADVANCE EARNED \$1,200.00 TOTAL PAS-PLING WY-038-911: TOTAL FOR CC COAL: PRE-FILING ADVANCE EARNED \$6,870.82 \$26,516.49 \$14,100.02 TOTAL PRE-FILING WY-04-1: TOTAL PRE-FILING WY-04-1: \$10,000.00 TOTAL PRE-FILING WY-04-1: \$10,000.00 TOTAL PRE-FILING WY-04-1: \$10,000.00 TOTAL PRE-FILING WY-04-1: \$10,000.00 TOTAL PRE-FILING WY-04-1:	\$1,200.00 \$1,200.00 \$1,200.00 \$1,200.00 \$1,200.00 \$1,200.00 \$20,518.46 \$14,100.02 \$49,487.33 \$247.11 \$247.11 \$1,000.00 \$1,000.00 \$4,000.00 \$455.79 \$4,438.17

Schedule 3.3(a)(0)

		WVL804 9-02	SOVEREIGN POCAHONTAS COMPAN	Y \$18,000.45	\$18,000.45
		WVL604 PRE	(15436) BOVEREIGN POCAHONTAS COMPAN		\$874,57
			(15038)		
		WVL604-A 10-02	FIRST CENTURY BANK NA (15644)	\$30,387,19	\$30,387.19
		WVL604A 9-02	FIRST CENTURY BANK NA (15644)	\$32,877.52	\$32,677.62
		WVL604-A-PRE	FIRST CENTURY BANK NA (15644)	TOTAL PRE-PLINO WVLSM:	\$2,104.30 \$88,383.63
		WVLHR1 10-02	HUNTINGTON REALTY CORP	\$5,568.56	\$5,556.66
		WVLHR1 9-02	(Z550199950) HUNTINGTON REALTY CORP	\$1,965.52	\$1,065.52
		WYLHR1-PRE	(Z550198950) HUNTINGTON REALTY CORP	\$3,188.15	\$3,188,15
			(2560 190950)	TOTAL PREFERING WALLET!	200 (2000)
					\$9,810.23
de la constante				RUSKVIENE KOVEDEN KOVETE EN ALIVERE	- TO TO THE REAL PROPERTY.
PIKE CO. COAL	KY	KYL94015	CHARLIE & CLERINDA HALL ESTATE (Z616157643)	\$1,800.00	\$1,800.00
			(50 (0 10 10 40)	TOTAL PRE-PRIMO MYLE-1916:	\$1,800.00
		KYL94022	HALL, JAMES D & JULIA (1008347)	\$1,456,25	\$1,456,25
		KT LB4UZZ		81,458.25	\$1,456.25
			HALL, MORRIS D. (1006348)		
			KING, CHELSA & JIM (1008349)	\$1,456.25	81,456.25
			HALL, HAROLD O & PEGGY (1006350	7) \$1,458.25	81,456.25
			HALL, MIKE & MERIDITH (1008251)	\$1,456.25	\$1,458.25
			HALL, DALE (1008362)	81,456.25	\$1,450,25
			HALL, AUBREY N. (1008353)	\$1,456.25	\$1,456.25
			HALL, GLENDA G. (1008354)	\$2,794.02	\$2,794.82
			HICE, ARRETTA & LARRY (1006357)	\$1,456.25	\$1,458.25
				TOTAL PRE-FILING SKYLSKISSI	\$14,444.92
		KYL473	FLOYD CIRCUIT COURT CLERK (1006872)	\$5,534.02	\$5,534.02
			FLOYD CIRCUIT COURT CLERK (1088971)	\$5,534.02	\$5,534.02
				TOTAL PRE-PILING MYLA73:	511,068.04
		KYL474	PLOYD CIRCUIT COURT CLERK (1010582)	\$5,534.02	\$5,534.02
			FLOYD CIRCUIT COURT CLERK (Z84CH108)	\$5,534.02	\$5,534.02
				TOTAL PRE-PILING SKYLATA:	\$11,068.04
		KYL94058	HALL HAROLD (1006118)	8756.14	8768,14
		RILLANDS	(100011)	TOTAL PRE-PILING SKYLMORE:	\$768.14
per do enti		KYL94082	HARRIS, ANITA G (1009509)	845.83	\$45,83
PIKE CO. COAL		KYL94002	HALL LARRY JOE (1009510)	\$45.83	\$45.83
			HONICAN, MARYLOU & MARK (100)		\$45.83
			HALL, RONALD (1009505)	\$45.83	\$45.83
			HALL WANDA J (1009506)	345.83	\$45.83
			HALL WILLIAM R (1008507)	\$45.83	\$45,83
			SMITH. RUTH (1009512)	\$45.83	845.83
			HALL AVANELLE (1009508)	\$45.83	\$45.83
			HALL, AVANCELE (1009500)	TOTAL PRE-FLING SKYLS4842:	\$366.64
(Company of the Company)	2: :::		PERMIT LEVEL DEPENDE	CHARLES TO SECTION OF THE SECTION OF SECTION S	(A)((1)(A)(A)
WOLF CREEK	KY		KATHLEEN BONNER (Z234482695)	\$1,44	\$1.44
(AREA #3)	153		HOWARD, JAMES RANDALL (1001)	341) \$0.20	30.20
frances and			JAMES MANNON (1010159)	80.15	\$0.15
			JOHN CASSADY (Z481288381)	\$10.29	\$10.29
			DONALD GIBSON (Z280105214)	82.31	\$2.31
			HALE, BAM N (2233345139)	\$20.61	\$20.61
			HARRISON, JACK C (1006829)	35.14	\$5.14
				TOTAL PRE-FILMO MYL138:	\$40.14
		KYL054B	PREECE, SUE (1003495)	\$161.25	\$181.25
		U I COO40	RUNYONS, GARY & BONNIE	\$1,451.25	\$1,451.25
			(Z402789545)	2444.78	#4#4 A#
			RUNYONS, DON (1003493)	\$161.26	\$161.25
			RUNYONS, LEONARD JR. (190346	8161.25	\$181.25
				TOTAL PRE-PILING SKYLSES	\$1,938.00

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		KYL014C	RUNYONS, GARY & BONNIE (Z402789545)	\$14.30	\$14.3
			HERBERT TRIPLETT (Z402246972)	\$67.20 TOTAL PRE-PLING SKYLO140:	\$57,2 \$71.5
		KYL019	DELONG, HENRY F JR. & JULI (Z404647081)	\$41.33	\$41.3
			(2404047001)	TOTAL PRE-PRING PRYLETS:	\$41.3
	T. America.			COMMENDIAL MEDICAL ENGINEERS OF THE STATE OF	\$214,422.1
KERD BANDY.					
AREA	STATE	CONTRACT	PAYEE	PRE-FILING ADVANCE EARNED	TOTA
COCKRELL'S FORK	KY	LA-193-002	HENSLEY, SINDA (5391)	\$1,973.32	31,973,3
000		LA-193-002	HENSLEY, BINDA (5391)	\$2,336.59	\$2,338.5
		-,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,		TOTAL PRE-FR.DAD LA-191-402:	\$4,309.9
		LA-193-007	MILLER, HESTER & RUSHIA (5947)	\$5,758.14	\$5,756.1
		LA-193-007	MILLER, HESTER & RUSHIA (5947)	\$898,15	\$898,1
				TOTAL PRE-PILING LA-113-407:	\$6,654.2
		LA-193-010	CAMPBELL, MICHELLE (1008329)	\$20.00	\$20.0
		LA-193-010	CAMPBELL, MICHELLE (1008329)	\$20.00	\$20.0
		LA-193-010	CAMPBELL, MICHELLE (1008329)	\$20.00	\$20.0
		LA-193-010	CAMPBELL, J.D. (1008327)	\$20.00	\$20.6
		LA-193-010	CAMPBELL, MICHELLE (1008329)	\$20.00	\$20.1
		LA-193-010	KEMPER, JOSEPHINE (1008:76)	\$20,00	\$20.0
		LA-193-010	CAMPBELL, CURTIS (1008328)	\$20.00	\$20.
		LA-183-010	CAMPBELL, J.D. (1008327)	\$20.00 \$20.00	\$20.0
		LA-193-010	CAMPBELL, MICHELLE (1008329) CAMPBELL, EARNEST (1008323)	\$20.00	\$20.0
		LA193-010 LA-193-010	CAMPBELL, MICHELLE (1008329)	\$20.00	\$20. \$20.
			CAMPBELL, MICHELLE (1008329)	\$20.00	
		LA-193-010 LA-193-010	CAMPBELL, MICHELLE (1008329)	\$20.00	\$20. \$20.
		DV-183-010	CLAMI, PETER MICH SECTO (100001-0)	TOTAL PRE-FRANG LA-152-010:	\$260.
		LA-193-016	KENTUCKY RIVER COAL CORPORATION (96760A)	\$134,387.24	\$134,387.
		LA-193-016	KENTUCKY RIVER PROPERTIES, LLC (1011043)	\$65,311.65	\$65,311.
			(1011043)	TOTAL PRE-FILING LA-193-916:	\$199,698.
		LA-193-017	FIELDS, PATSY NOBLE (1002060)	\$4.69	\$4.
		LA-193-017	CAMPBELL, ASTOR (ESTATE) (1002088)		\$14.
		LA-193-017	CAMPBELL, ASTOR (ESTATE) (1002088)	\$14.06	\$14.
		LA-193-017	WEST, BRENDA G. NOBLE (1002087)	\$4.69 TOTAL PRE-FILDIG LA-153-017:	\$4. \$37.
		LA-193-018	LANDRUM, LENA & OMER - 6038 (6036)		\$2,296
			NEACE, WILGUS (5982)	\$2,296.34	
		LA-183-018	MENCE, MILOOS (9905)	TOTAL PRE-PIL PIO LA-112-018:	\$2,296 \$4,892
		LA-193-019	LANDRUM, LENA & OMER - 5038 (6036	\$963,32	2883
		LA-193-019	NEACE, WILGUS (5982)	\$963.32 TOTAL PRE-FILING LA-183-019:	\$963 \$1,926
		LA-193-029	KENNEDY, HELEN (8500-GPDV)	\$500.00	\$500
		LA-183-029	NEACE, CALVIN & OLA (6501-GPDV)	8500.00	\$500
		CV183-028	MENOE, ONLY IN A CONTROL OF STA	TOTAL PRE-PILING LA-103-428:	\$1,000
Description of the second			TO SEE THE PROPERTY OF THE PRO	BDB (MD) GIGOCOBY CAN THE WAR IN	T. Princip
				TOTAL IKERD BANDY:	\$218,471
LESLIE RESO	URCES	S, INC.		PRE-FILING	
AREA	STAY	E CONTRACT	PAYEE	ADVANCE EARNED	TO
ACECO TIPPLE	KY	100164	KY RIVER COAL CORP (06780A)	\$300.00 \$0.00	\$300
AGEGO IPPLE	KY	100104	VI RIVEY COVE DOLL (10/1904)	TOTAL PRE-FILING 100104;	\$30

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						ECHICAN.
ARCH PROPERTIES	KY	LA-013-021	CALDWELL, CAROLYN S (1000288)	67,500.00		\$7,500.00
			CAMPBELL V. JOHN P. (1000288)	87,500.00		\$7,500.00
			MAGRUDER, MARTHA & MILTON (1000280)	\$3,750.00		\$3,750.00
			KELLY, JOHN M. & ELEANOR (1000ZB)	83,750.00		\$3,760.00
			KELLY, JR. CLEM (1000287)	\$3,750.00		\$3,750.00
			KELLY, THOMAS (1000291)	\$3,750.00		\$3,750.00
				TOTAL PRE-FEB	10 LA-013-0211	\$30,000.00
		LA-813-023	CUNDIFF, LARRY WAYNE (18506)	\$40.00		
		D-013-023	COMBS, LOIS C. (18509)	828.87		\$40.00 \$26.87
			GABBARD, SALLIE S. (18510)	865,67		\$66.67
			CUNDIFF, EUGENE & MARY LOU	\$86.67		\$86.67
			(1007048)		permental con	
				TOTAL PREPLI	NG EA-813-823:	\$200.01
		LA-013-024	CUNDIFF, LARRY WAYNE (16808)	\$40.00		\$40.00
			COMBS, LOIS C. (18509)	\$26.6B		\$26.68
			GABBARD, BALLIE S. (18510)	\$66.66		\$66,68
			CUNDIFF, EUGENE & MARY LOU	\$66.66		\$66.68
			(1007046)	TOTAL PRE-FILI	NG LA411414:	\$200.00
Charles of the second	- SATA	OVER THE PARTY		RESIDENCE STANDARD CHOP	NEW TOTAL	\$10 400 B
BALL CREEK	KY	100012	GAYHEART, ANNA JOY (1001240)	\$125.00		\$125.00
DALL CALLA	N.I	100012	BRUMBLAY, CAROLYN S. (GAYHEAR		\$1,968.32	\$1,986.32

			COLLINS, DEBRA K (1000948)		\$1,966.32	\$1,966.32
			GAYHEART, ANNA JOY (1001240)		\$1,968.32	\$1,966.32
			GAYHEART, DANIEL W. (1000935)	\$625.00		\$625.00
			GAYHEART, ANNA JOY (1001240)	\$125.00		\$125.00
			COLLINS, DEBRA K (1000948)	\$125.00		3125.00
			BRUMBLAY, CAROLYN S. (GAYHEAF			\$125.00
			A		-40 570 /2	949 CT0 41
			GAYHEART, DANIEL W. (1000835)		\$13,579.47	813,579.47
			GAYHEART, DANIEL W. (1000935) BRUMBLAY, CAROLYN S. (GAYHEAF	971	\$7,843.07 \$1,155.28	\$7,843.07 \$1,155.26
			BROMBLAT, CAROLTH & GATHEN	K()	41,100.20	01,100.21
			COLLINS, DEBRA K (1000848)		\$1,155.28	\$1,155.21
			GAYHEART, ANNA JOY (1001240)		81,165.28	\$1,155.2
				TOTALPE	E-PILING 100612:	\$31,912.3
		500001	TRANSCO, INC. (16096)		\$22,500.00	\$22,500.0
		300001	TRANSCO, INC. (18098)		\$12,905,04	\$12,905.0
			11001000, 210. (1868)	TOTAL PR	E-FILINO \$54491:	\$36,408.0
		****	MOUNTAIN PROPERTIES, INC. (20-	4814	\$52,500.00	\$52,500.0
		58-119	GPDV)	10001		
			MOUNTAIN PROPERTIES, INC. (20- GPDV)	46 8 A-	\$33,664.95	\$33,664.9
			3,547	TOTAL PA	E-FILING 83-118 :	\$86,164.9
STATE OF THE PARTY OF	No.	AND THE PARTY OF T	7 () () () () () () () () () (STREET OWNER OF A	THE PARTY OF THE P	L'ATTALLE.
		40000	HENSLEY, SINDA (6391)	\$1,000.00		\$1,000.0
CHAVIES (JOB 8)	K	100039	RALEIGH, CHARLES & GRETA (183			\$1,000.0
				383.30		\$83.3
			WILLIAMS, AMY J. (1001691)	\$41.B0		\$41.0
			MIRABELLA, EVELYN J. (1001893)	\$125.00		\$125.0
			JOHNSON, BETTY (1010760)			\$85.
			JOHNSON, GRADDY W. (1001690)			
			JOHNSON, NANCY B. (1002078)	\$166.70		\$186.
			JOHNSON, J.E. III (1001688)	355.60		\$55.
			HOBBS, LOUISE PRYOR (1001685)	\$155.70		\$166
			ESTATE OF NANCY WINN MERRIL (1001689)	1 385.60		\$55.
			BURNETT, CHRISTINE J. (1001882	383.30		\$83.
			BARRET, JULIA J. (1001887)	\$168.70		\$166.
					RE-FILING 190136 ;	\$3,000
		LA-183-032-LR	KENTUCKY MOUNTAIN PARTNER	SHIP, \$2,600.00		\$2,500
			ING.		NG LA-193-032-LR:	\$2,500
				10170 776700		94,800

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GEORGE'S BRANCH	КУ	LA-193-035	LEWIS, SHRLEY & ED (16382) HURST, DAVID & JANET (1000385) COLE, CAROLYN & JOHN (1000384) HURST, JAMES & REVA (1000382) NASH, EBTA & ALLAN (1000383)	\$12.50 \$0.00 \$12.50 \$12.50 \$12.50 \$12.50 TOTAL PRE-FILING SLA-183-438.	\$12.50 \$12.50 \$12.50 \$12.50 \$12.50 \$52.80
		LA-193-045	ROARK, SADIE & GW (8273-GPDV) ERSKINE, ESSIE & CLARENCE (1000440)	\$35.42 \$35.42	\$35.42 \$38.42
			MOORE, GERALDINE & CONLEY JR. (2873-GPDV)	835.42	\$35.42
			LEWIS, CALLIE (5888-GPDV) MULLINS, DORA (2840-GPDV)	\$35.42 \$18.65	\$35.42 \$18.65
			JENT, PAULETTA (6258-GPDV)	\$35,42	\$36,42
			,	TOTAL PREFEING CLA-193-646:	\$193.75
		LA-193-027	FELTNER, OPAL MARIE (1000942)	\$4,674.06	\$4,574.08
			FELTNER, BETHANY LENORA (18360)	\$4,574.08	\$4,574,06
				TOTAL PRE-PILING BLA-193-037:	\$9,148.12
		LA-193-028	RALEIGH, ELMER RAY & NORA L (1000250)	\$2,731.15 TOTAL PRE-PENIG RLA-113-028:	\$2,731,15
				101AL PRE-PENS NUM-1113-028:	\$2,731.16
		LA-193-021	EDWARDS, MICHAEL S & MARCIA (1009257)	\$563.62	\$583.52
				TOTAL PRE-PLING FLA-193-021:	6 563.62
		LA-193-020	WATTS, SALLY & DAVID (18438)	\$167.71 TOTAL PRE-FILMO 6LA-113-020;	\$187.71 \$157.71
NAMES OF THE PERSONS	Committee of	and the second	THE STATE OF THE S	THE CONTRACTOR OF THE PARTY OF	THE COURT
HARD BURLY	KY	58-022	FELTNER, JAMES & KAREN (1000482) FELTNER, RAYMOND & EDNA (1000483)	\$250.00 \$250.00	\$250.00 \$250.00
				TOTAL PRE-PILING #68-0221	\$500.00
SESSION OF SESSION	ALC: N	31000	ALION CANAL	ALSOURCES HIMADINOPORTANEX	ાં કાલા
LAND MANAGEMENT	KY	100037	COASTAL COAL COMPANY, LLC (1002657)	\$38,173.34 \$31,826,66	\$70,000.00
			(1002657)	TOTAL PRE-FELING 1008371	\$70,000.00
		100041	KENTUCKY RIVER COAL CORPORATION (08780A)	\$212,763,27	\$212,763.27
			KENTUCKY RIVER PROPERTIES, LLC (1011043)	\$108,722.93	\$108,722.93
			(10110-10)	TOTAL PREFILING 100041:	\$321,486.20
		100075	PHOENIX DEVELOPMENT COMPANY (16339)	\$2,792.57	\$2,792.57
			PHOENIX DEVELOPMENT COMPANY (18339)	\$503.02	\$503.02
			PHOENIX DEVELOPMENT COMPANY (18339)	\$11,249.76	\$11,249.76
				TOTAL PRE-FILING 149678:	\$14,648.35
SUN CONTRACTOR OF THE PARTY OF			STEERS OF THE STORY OF STREET	UKGENTUNDAKA DIDEN LITA DE V	FOR THE PARTY OF T
WALKER BRANCH	KY	100004	CORNETT, CHARLIE & GEORGETTA (18282-GPDV)	\$1,271,34	31,271.34
			SMITH, PHIL (5023-GPOV) CORNETT, CHARLIE & GEORGETTA	\$1,500,00 \$1,500,00	\$1,600.00 \$1,500.00
(**)			(16262-GPDV) SMITH, PHIL (5023-GPDV) CORNETT, CHARLIE & GEORGETTA	\$603.02 \$603.02	\$503.02 \$503.02
			(18262-GPDV)		
					\$6,277,38
		100006	SMITH THE MA (18354)	\$5.10	14 to 4 to 10 to 2 to 2 to 10
		100006	SMITH, THELMA (18314) AUGUSTUS, SARAH S. (18250)	\$5.10 \$5.11	\$5.10 \$5.11
		100006	AUGUSTUS, SARAH S. (16250) HOPE, KARAH S. (16278)	\$5,11 \$136.90	\$5.10 \$5.11 \$136.90
		100006	AUGUSTUS, SARAH S. (16250)	\$5.11	\$5.10 \$5.11
		100006	AUGUSTUS, SARAH S. (16250) HOPE, KARAH S. (16278) LANIER ESTATE, GLADYS EUREKA	\$5,11 \$136.90	\$5.10 \$5.11 \$136.90

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SMITH, THELMA (16314)	\$5.10	\$5.10
SMITH, THELMA (16314)	85.10	\$5.10
AUGUSTUS, SARAH S. (18250)	\$5.11	35,11
SMITH, THELMA (16314)	35.10	\$5.10
SMITH, THELMA (18314)	86.10	\$5.10
GENSHEIMER, DONNA F. (18275)	\$5,11	35.11
AUGUSTUS, SARAH S. (16250)	35.11	\$5.11
SMITH THELMA (16314)	\$5,10	\$6.10
	•	\$198.15

IOUNTAIN CL	V IN	C				
CUNTAINCE	TI, III	C.		PRE-FIL	DNI	
AREA	STATE	CONTRACT	PAYEE	ADVANCE	EARNED	TOTA
BIG CREEK	KY	03-017	LOVERIDGE, LONNIE (16205)	\$2,500.00	\$0.00	\$2,500.0
			LOVERIDGE, JOHN (16287)	\$2,500,00	\$0.00	\$7,500,0
			LOVERIDGE, C. DENNING & DIANA (16288)	\$2,500.00	\$0.00	87,500.0
			LOVERIDGE, BETTY (16289)	\$2,500.00	80.00	\$2,500.0
				TOTAL	PREFILING 88-017:	\$19,000.0
		03-018	LOVERIDGE, LONNIE (16285)	\$125.00	\$0.00	\$125.
		0.000000	, LOVERIDGE, JOHN (18287)	\$125.00	\$0.00	\$125.0
			LOVERIDGE, C. DENNING & DIANA (16266)	\$125.00	\$0.00	8126
			LOVERIDGE, BETTY (18289)	8125.00	80.00	8125
			COVERNOE, BETTY (16209)		PREFILING 03-018:	\$600.
BIG CREEK		03-027	BOWLING, JAY & MILDRED (16341)	\$5,000.00		\$5,000.0
DIG GREEK		43-441	TURNER, PAUL (1010904)	\$5,000.00		\$5,000.
			(3.1.2.4.1.2.4.1.1.1.1.1.1.1.1.1.1.1.1.1.1	TOTALP	NE-PLDIG 563-627:	\$10,000
		03-003	BOWLING, KAY & IRENE (1000116)	\$1,667.00		\$1,667.
			BOWLING, DOY (16621)	\$1,687.00		\$1,667.
			BOWLING, JAY & MILDRED (16341)	\$1,667.00		\$1,687. \$833.
			NEWTON, CANDI (1000117) BOWLING, COY (18620)	\$1,556,00		\$1,668
			COMBS, FAYE & BURL (16817)	\$2,500.00		\$2,500
					PRE-11LING 003-052;	\$10,000
		100009	SPICER, NANNIE (1000107) SPICER, CURTIS T & VELMA (16349)	\$187.50 \$7.81		\$187 \$7
			COLWELL, LLOYD & JOYCE (16343)	\$7.81		37
			CLONCH, SAMUEL & MALLIE (16342)	\$7.81		37
			SPICER, ELI C & PATTIE (16351)	\$7.81		87
			JOHNSON, CHARLIE & CYBIL (16345)	\$7.81 \$7.81		\$7 \$7
			PEARSALL, ALBERT & LOIS (16346) FARLEY, MICHAEL & PAULINE (18344)	\$7.81		\$7
			REED, CARL & AMANDA (1000108)	\$7.81		\$7
			rices, write a simulating franch	TOTAL	PAR-PELING P100000:	\$24
			TOTAL MOU	NTAIN CLAY, INC	BIG CREEK AREA:	\$10,74
CAMP CREEK	KY	05-022	HENSLEY, PAUL & BETTY (07615A)		\$12,939.15	\$12,93
WHIT CITCEN	151	30 300	KRAMER, ELIZABETH (16413)		\$12,939,15	\$12,93
			HENSLEY, PAUL & BETTY (07615A)		\$931.91 \$931.81	\$93 \$93
			KRAMER, ELIZABETH (16413)	TOTA	L PRE-FILING 65-822:	\$27,74
		05-041	MORGAN, JERRY & DEBORAH (1004185	\$208.34		\$20
				TOTA	L PRE-FELING BE-041:	\$20
		05-045	CLARK, PATRICIA (1005847)	\$50.0 TOT	O AL PRE-FILING DE-BAS:	\$1 \$1
			TOTAL MOUN	TAIN CLAY, INC C	AMP CREEK AREA!	\$28,00
LAND MANAGEME	NT K	r 05-015	EVERSOLE HEIRS, (HEIRS OF VIRGIL EVERSOLE)	\$15,000.0	0	\$15,00
			EVERSOLE	TOT	AL PRE-FILING BE-016 :	\$15,0

Schedule 3.3(e)(III)

				TOTAL MOUNTAIN CLAY, INC.:	\$73,780.44
PIKE COUNTY	COAL			7. 30.4	
				PRE-FILING	
AREA	STATE	CONTRACT	PAYEE	ADVANCE EARNED	TOTAL
PIKE COUNTY COAL	KY	KYL471	MAY PROPERTIES (Z611243777)	\$600,80	\$500.60
				TOTAL PRE-FILING MOVEATE	\$500.60
		KYL472	MAY PROPERTIES (Z811243777)	\$413.41 TOTAL PRE-FILMS INCYLARS:	\$413.41 \$413.41
		KYL48005	ENTERPRISE COAL COMPANY	\$200.00	\$200,00
			(2810855798)	TOTAL PRE-FILMO MYLABOUS:	\$200.00
		KYL48064	POWELL, JAMES & BEATRICE	\$50,00	850.00
			(Z400159265) EPLING, BENNY CHARLES & DONIT	A \$50.00	\$50,00
			(Z401688503)	TOTAL PRE-PLING SKYLASSIA:	\$190,00
				DUNTY COAL - PIKE COUNTY COAL AREA:	\$1,214.01
	-			TOTAL PIKE COUNTY COAL:	\$1,214.01
PRO-LAND, INC	C.				
			make m	PRE-FILING	
AREA BALL CREEK	STATE	CONTRACT 100011	MOUNTAIN PROPERTIES, INC. (20	ADVANCE EARNED	TOTAL
BALL CREEK	KT	100011	GPDV)		\$14,628.33
			MOUNTAIN PROPERTIES, INC. (20 GPDV)		\$8,799.27
				TOTAL PRE-FRING 199611:	\$21,427.60
		58-128	BACK, DOUGLAS & JANICE (100846		\$121.08
			RICHE, LARRY (1008399)	\$121.08	\$121.08
			RICHIE, ROGER & KAREN (1008400)) \$121.08_ TOYAL PRE-FEING \$1428;	\$121.08 \$363.24
					25/03/2007/
				TOTAL PRILAND, INC BALL CREEK AREA:	\$21,790,84
PERKINS BRANCH	KY	05-036	KYCOGA COMPANY (18284-GPDV	326,890,84	\$26,890.84
				TOTAL PREFEING NECH:	\$26,890.84
		58-011	EDWARD CLEMONS REVOCABLE	\$29,591.16	829,691,15
			TRUST (1010104) EDWARD CLEMONS REVOCABLE	\$11,261.08	\$11,261.08
			TRUST (1010104)	TOTAL PRE-PILING SE-811:	\$40,952.23
			YOUN	PRO-LAND, INC PERKINS BRANCH AREA:	\$67,841.07
					\$80,633.81
1				TOTAL THE THO-DIES HIS.	400,000.01
SUNNY RIDGE				100 to 10	
AREA	STATI	E CONTRACT	PAYEE	PRE-FILING ADVANCE EARNED	TOTAL
DICK'S KNOB	KY	160021	WISEMAN, SHIRLEY (1003110)	\$1,205,99	\$1,205.99
	14.	100001	HATFIELD, CHARLES (1003117)	1205.98	\$1,206.B8
			SMITH, CLAUDE (1003118)	\$401.99	3401.99
			MILLER, LAHOMA & STANLEY (10	33120) \$401.99	\$401.99
			RIDDLE, BETTY JEAN (1009466)	\$401.98 TOTAL PRE-FILING \$15031;	\$401.99 \$3,817.94
		220044	MAY, ROBERT & CHARLOTTE (10	06047) \$39.29	\$39.29
				TOTAL PRE-FEING 83206441	\$39.29
		160121	LAUREN LAND COMPANY (ZB112	09098) \$3,545.75	83,545 75
				TOTAL PRE-FILING SISSIST:	\$3,545.76
		180122	SMITH, RANSOM & LYDIA (10065)	09) \$1,634.05	\$1,634,05
				TOTAL PRE-FILMO 9166123:	\$1,634.05



Schodule 3.3(a)(iii

16016	\$6,892,30 \$4,892,30 \$5,692,30 \$3,503,23 \$3,503,23 \$7,006.46 \$5,831,29 \$5,831,29 \$5,831,29 \$405,00 \$405,00 \$405,00 \$100,00 \$200,00 \$300
160118	\$4,892,30 \$3,003,23 \$3,503,23 \$7,006,46 \$5,831,29 \$6,831,29 \$6,831,29 \$6,831,29 \$6,831,29 \$6,831,29 \$6,831,29 \$6,831,29 \$6,831,29 \$6,831,29 \$6,831,29 \$6,831,29 \$6,831,29 \$6,831,29 \$6,831,29 \$6,831,29 \$100,00 \$100,00 \$200,00 \$200,00 \$300,00
SMITTL MONTE RAY (1005486) SI,503,23 TOTAL PREPALMO 918918 220001 COLEMAN, HELEN M (1003850) TOTAL PREPALMO 918918 25,000,00 TOTAL PREPALMO 9280005: 280001 SULLIVAN, MORNINE (1010184) S00,00 TOTAL PREPALMO 9280005: 280002 HARDESTY, ROGER (1002708) FRALEY, KAREN (1002707) 3100,00 TOTAL PREPALMO 9280005: 260003 DOTSON, GEORGE (1002705) 3300,00 TOTAL PREPALMO 9280005: 280004 DOTSON, GEORGE (1002705) 3300,00 TOTAL PREPALMO 9280005: 280005 HATFIELD, CURTIS (1002707) 3772.50 TOTAL PREPALMO 9280006: 280006 HATFIELD, LASSIE C (1004077) 3372.50 TOTAL PREPALMO 9280006: 280007 SULLIVAN, STEARL (100855) \$315.00 TOTAL PREPALMO 9280006:	\$3,503.23 \$7,006.46 \$5,831.29 \$5,831.29 \$5,831.29 \$300.00 \$405.00 \$405.00 \$100.00 \$100.00 \$300.00 \$300.00 \$300.00 \$300.00 \$300.00 \$300.00 \$300.00 \$300.00 \$300.00
\$MITH, MONTE RAY (1005485) \$1,50,123 TOTAL PRE-FUND #189191 220001 COLEMAN, HELEN M (1003850) 35,831,29 TOTAL PRE-FUND 82360601; 260000 SULLIVAN, MORRINE (1010194) 300,00 TOTAL PRE-FUND 82360601; 260002 HARDESTY, ROGER (1002705) FRALEY, KAREN (1002707) 3100,00 TOTAL PRE-FUND 82360601; 260003 DOTSON, GEORGE (1002705) 3300,00 TOTAL PRE-FUND \$2366601; 260004 DOTSON, SHERRY (1002703) \$300,00 TOTAL PRE-FUND \$2366601; 260005 HATFIELD, CURTIS (1002703) \$330,00 TOTAL PRE-FUND \$2366601; 260005 HATFIELD, CURTIS (1002707) 3372,50 TOTAL PRE-FUND \$2366601; TOTAL PRE-FUND \$266601; TOTAL PRE	\$3,503.23 \$7,006.46 \$5,831.29 \$5,831.29 \$5,831.29 \$300.00 \$405.00 \$405.00 \$100.00 \$100.00 \$300.00 \$300.00 \$300.00 \$300.00 \$300.00 \$300.00 \$300.00 \$300.00 \$300.00
TOTAL PRE-PLING 9189118. 3300.00 35,831.28 TOTAL PRE-PLING 9280001. SULLIVAN, MORNINE (1010194) 3300.00 TOTAL PRE-PLING 9280001. S409.00 TOTAL PRE-PLING 9280001. S409.00 TOTAL PRE-PLING 9280001. S409.00 TOTAL PRE-PLING 9280002. S424.00 TOTAL PRE-PLING 9280004. S409.00 TOTAL PRE-PLING 9280006. S424.00 S4	\$7,006.46 \$5,831.29 \$5,831.29 \$5,831.29 \$300.00 \$300.00 \$405.00 \$405.00 \$406.00 \$100.00 \$100.00 \$200.00 \$300.00 \$300.00 \$300.00 \$300.00 \$300.00
260000 SULLIVAN, MORAINE (1010194) 3300.00 TOTAL PRE-PLING \$280000: 260001 SULLIVAN, WALTER (1002704) \$405.00 TOTAL PRE-PLING \$280000: 260002 HARDESTY, ROGER (1002705) \$100.00 FRALEY, KAREN (1002707) \$100.00 TOTAL PRE-PLING \$280002: 260003 DOTGON, GEORGE (1002705) \$3300.00 TOTAL PRE-PLING \$280002: 260004 DOTGON, SHERRY (1002703) \$350.00 TOTAL PRE-PLING \$280002: 260005 HATFIELD, CURTIS (1002702) \$424.00 TOTAL PRE-PLING \$280000: 260006 HATFIELD, LASSIE C (1004077) \$3372.50 TOTAL PRE-PLING \$2800007:	\$8,831,29 \$300,00 \$300,00 \$405,00 \$405,00 \$100,00 \$100,00 \$200,00 \$300,00 \$300,00 \$350,00 \$350,50 \$350,50
260000 SULLIVAN, MORNINE (1010194) 3000.00 TOTAL PRE-PLING \$2300001: 280001 SULLIVAN, WALTER (1002704) \$405.00 TOTAL PRE-PLING \$2300001: 280002 HARDESTY, ROGER (1002708) \$100.00 FRALEY, KAREN (1002707) \$100.00 TOTAL PRE-PLING \$2300001: 260003 DOTSON, GEORGE (1002705) \$300.00 TOTAL PRE-PLING \$2300001: 260004 DOTSON, SHERRY (1002703) \$330.00 TOTAL PRE-PLING \$2300001: 260005 HATFIELD, CURTIS (1002702) \$424.00 TOTAL PRE-PLING \$7100001: 260006 HATFIELD, LASSIE C (1004077) \$3372.50 TOTAL PRE-PLING \$2300001: 260007 SULLIVAN, STEARL (100855) \$300.00 TOTAL PRE-PLING \$2300001: 260008 JUSTICE, JUNIOR (1002701) \$3315.00	\$8,831,29 \$300,00 \$300,00 \$405,00 \$405,00 \$100,00 \$100,00 \$200,00 \$300,00 \$300,00 \$350,00 \$350,50 \$350,50
280001 SULLIVAN, WALTER (1002704) 3408.00 TOTAL PRE-PLING \$280005: 280002 HARDESTY, ROGER (1002708) \$100.00 TOTAL PRE-PLING \$280002: 280003 DOTSON, GEORGE (1002705) 3300.00 TOTAL PRE-PLING \$280002: 280004 DOTSON, SHERRY (1002703) \$350.00 TOTAL PRE-PLING \$280006: 280005 HATFIELD, CURTIS (1002702) \$424.00 TOTAL PRE-PLING \$7100004: 280006 HATFIELD, LASSIE C (1004077) 3372.50 TOTAL PRE-PLING \$280006: 280007 SULLIVAN, STEARL (1008836) \$300.00 TOTAL PRE-PLING \$2800007: TOTAL PRE-PL	\$300.00 \$405.00 \$406.00 \$100.00 \$100.00 \$200.00 \$300.00 \$300.00 \$350.00 \$350.00
280001 SULLIVAN, WALTER (1002704) 3408.00 TOTAL PRE-PLING \$280001: 280002 HARDESTY, ROGER (1002708) \$100.00 TOTAL PRE-PLING \$280002: 280003 DOTSON, GEORGE (1002705) 3300.00 TOTAL PRE-PLING \$280002: 280004 DUTSON, SHERRY (1002703) \$3300.00 TOTAL PRE-PLING \$280002: 280005 HATFIELD, CURTIS (1002702) \$424.00 TOTAL PRE-PLING \$7100004: 280006 HATFIELD, LASSIE C (1004077) 3372.50 TOTAL PRE-PLING \$2800001: 280007 SULLIVAN, STEARL (100885) \$300.00 TOTAL PRE-PLING \$2800007: TOTAL PRE-P	\$300.00 \$405.00 \$406.00 \$100.00 \$100.00 \$200.00 \$300.00 \$300.00 \$350.00 \$350.00
250002 HARDESTY, ROGER (1002708) \$ 100.00 \$ 100.	\$495.00 \$100.00 \$100.00 \$200.00 \$300.00 \$300.00 \$350.00 \$350.00 \$350.00
250002 HARDESTY, ROGER (1002708) \$ 100.00 \$ 100.	\$495.00 \$100.00 \$100.00 \$200.00 \$300.00 \$300.00 \$350.00 \$350.00 \$350.00
FRALEY, KAREN (1002707) \$100.00 TOTAL PRE-\$LING \$286682: 260003 DOTSON, GEORGE (1002705) \$300.00 TOTAL PRE-\$LING \$286682: 280004 DOTSON, SHERRY (1002703) \$350.00 TOTAL PRE-\$LING \$286682: 260005 HATFIELD, CURTIS (1002702) \$424.00 TOTAL PRE-\$LING \$286686: 260006 HATFIELD, LASSIE C (1004077) \$3372.50 TOTAL PRE-\$LING \$286686: 260007 SULLIVAN, STEARL (1008835) \$300.00 TOTAL PRE-\$LING \$286667: 260008 JUSTICE, JURIOR (1002701) \$315.00	\$100,00 \$100,00 \$200,00 \$300,00 \$390,00 \$350,00 \$350,00 \$3424,00
FRALEY, KAREN [1002707] \$100.00 TOTAL PRE-\$LING \$286682: 260003 DOTSON, GEORGE (1002705) \$300.00 TOTAL PRE-\$LING \$286682: 280004 DOTSON, SHERRY (1002703) \$350.00 TOTAL PRE-\$LING \$286682: 260005 HATFIELD, CURTIS (1002702) \$424.00 TOTAL PRE-\$LING \$286686: 260006 HATFIELD, LASSIE C (1004077) \$3372.50 TOTAL PRE-\$LING \$286686: 260007 SULLIVAN, STEARL (1008835) \$300.00 TOTAL PRE-\$LING \$286667: 260008 JUSTICE, JURIOR (1002701) \$315.00	\$100,00 \$200,00 \$300,00 \$300,00 \$350,00 \$350,00 \$424,00
760003 DOTSON, GEORGE (1002705) 3300.00 TOTAL PRE-PLING \$286062: 280004 DOTSON, SHERRY (1002703) \$350.00 TOTAL PRE-PLING \$286065: 280005 HATFIELD, CURTIS (1002702) \$424.00 TOTAL PRE-PLING \$286066: 280006 HATFIELD, LASSIE C (1004077) 3372.50 TOTAL PRE-PLING \$286065: 280007 SULLIVAN, STEARL (1008635) \$300.00 TOTAL PRE-PLING \$2860607: 260008 JUSTICE, JURIOR (1002701) \$315.00	\$200.00 \$300.00 \$300.00 \$350.00 \$350.00 \$3424.00
260003 DOTSON, GEORGE (1002705) \$300.00 TOTAL PRE-PLING \$2566665: 260004 DOTSON, SHERRY (1002703) \$350.00 TOTAL PRE-PLING \$2566665: 260005 HATFIELD, CURTIS (1002702) \$424.00 TOTAL PRE-PLING \$2566665: 260006 HATFIELD, LASSIE C (1004077) \$3372.50 TOTAL PRE-PLING \$2566665: 260007 SULLIVAN, STEARL (100805) \$300.00 TOTAL PRE-PLING \$2566607: 260008 JUSTICE, JURIOR (1002701) \$315.00	\$300.00 \$300.00 \$350.00 \$350.00
280004 DOTSON, SHERRY (1002703) \$350.00 TOTAL PRE-PLING \$280005; 424.00 TOTAL PRE-PLING \$750004; 260005 HATFIELD, CURTIS (1002702) \$424.00 TOTAL PRE-PLING \$280006; 280006 HATFIELD, LASSIE C (1004077) \$3372.50 TOTAL PRE-PLING \$280006; 280007 SULLIVAN, STEARL (100855) \$300.00 TOTAL PRE-PLING \$2800007; 260008 JUSTICE, JURIOR (1002701) \$315.00	\$300.00 \$350.00 \$350.00 \$424.00
280004 DGT8ON, SHERRY (1002703) \$350.00 TOTAL PRE-FILMO \$710004: 260005 HATFIELD, CURTIS (1002702) \$424.00 TOTAL PRE-FILMO \$7100004: 260006 HATFIELD, LASSIE C (1004077) \$3372.50 TOTAL PRE-FILMO \$7240004: 260007 SULLIVAN, STEARL (1008635) \$300.00 TOTAL PRE-FILMO \$7240007: 260008 JUSTICE, JURIOR (1002701) \$315.00	\$350.00 \$360.00 \$424.00
260005 HATFIELD, CURTIS (1002702) \$424.00 TOTAL PRE-FILING \$100004: 260006 HATFIELD, LASSIE C (1004077) \$3372.50 TOTAL PRE-FILING \$200006: 260007 SULLIVAN, STEARL (1008635) \$300.00 TOTAL PRE-FILING \$200007: 260008 JUSTICE, JUNIOR (1002701) \$315.00	\$350.00
260005 HATFIELD, CURTIS (1002702) \$424.00 TOTAL PRE-FILMS \$100000: 260006 HATFIELD, LASSIE C (1004077) \$3372.50 TOTAL PRE-FILMS \$221000: 260007 SULLIVAN, STEARL (1008635) \$300.00 TOTAL PRE-FILMS \$2210007: 260008 JUSTICE, JURIOR (1002701) \$315.00	\$350.00
260006 HATFIELD, LASSIE C (1004077) 3372.50 TOTAL PRE-PILNO 2245869: 260007 SULLIVAN, STEARL (1008636) 5300.00 TOTAL PRE-PILNO 2245869: TOTAL PRE-PILNO 2245869: 260008 JUSTICE, JUNIOR (1002701) \$315.00	
200006 HATFIELD, LASSIE C (1004077) 3372.50 TOTAL PRE-PILNO 0288095: 250007 SULLIVAN, STEARL (1008635) 3300.00 TOTAL PRE-PILNO 0288095: TOTAL PRE-PILNO 0288095: TOTAL PRE-PILNO 0288095:	
250007 SULLIVAN, STEARL (1008835) \$300.00 TOTAL PRE-PLING 8268867: 260008 JUSTICE, JUNIOR (1002701) \$315.00	
250007 SULLIVAN, STEARL (1008835) \$300.00 TOTAL PRE-PLING 8260007: 250008 JUSTICE, JUNIOR (1002701) \$315.00	\$372.60
707AL PREFELING SICEROT: 260008 JUSTICE, JUNIOR (1002701) \$315.00	\$372.50
260008 JUSTICE, JUNIOR (1002701) \$315.00	\$300,00
	\$300.00
	\$315,00
	\$315.00
TOTAL SUNNY RIDGE - DICKS KNOR AREA:	\$31,633,68
TOTAL PIKE SUMNY RIDGE:	\$31,633.80
TURRIS COAL PRE-FILING	
AREA STATE CONTRACT PAYEE ADVANCE EARNED	TOTAL
ELKHART MINE IL IL04724001 LITTLER, STEPHEN L TRUST NO (237602 \$0.00 \$50,288,47 TOTAL PREFILMS LB4724801:	\$50,288.47 \$50,288.47
	900,220.41
IL04759001 MERRIMAN, WILLIAM F (Z337246155) \$0.00 \$95,524,87	\$95,524,87
AN ION FIRST MATE (MATERIAL):	\$95,624.87
IL04774001 SCHEMMER, RONALD L (Z62574) \$0.90 \$2,670.13	\$2,870.13
TOTAL PRE-PLING LOST/40M	\$2,970.13
IL04809001 MUNSON, BARBARA JANE (1010745) \$5.00 \$38.278.58	\$38,278.58
THOMPSON, ROBERT TRUST, \$0.00 \$38,278.56 SUSANNA AND 8 MUNSON CO-TSTES (Z61617059)	\$38,278.58
(C010177039) TOTAL PRE-PLING ESAMONT	\$78,867.10
IL04312001 PASQUESI, ELIZABETH (23423859581) \$0.00 \$33.99	
CAROLIN, CATHERINE BENT (234238595 \$0.00 \$33.89	222.01
TOTAL PRE-PLANG EDUTEDOT	\$33.91 \$33.91

OVERALL PREFILING ROYALTIES FOR NEW CO: \$1,591,869.52

UNIT CODE			MAKE	MODEL	YEAR	LESSON	LESSEE	LDCATION	TERM	CURE AMOUNT	
2062	18800017	_	Cet	CZES	15857	7	Hartzan NR, LLC	AM - Alley Branch	4	*	149,483,60
19031		CAPITAL	3	3516D11A CEN	•	Z,	Horteen MR, LLC	MT3 - Idle HWM Equip	4	99	72,247,00
19032		CAPITAL	ĕ	3616 GEN	~	7	Horbon NR, LLC	Kernecoll Energy HWM	8	10	58,288.24
क्षद्रा	7149400090	CAPITAL	3	DZBS	1997	CAT	Laste Resources, In	LRI - Job 67 Georges	4	n	200, 164,06
1051	~	CAPITAL	5	P110	1996	CAT	Harlzon MR, LLC	SR - Job 24 Dicts Kg	64		164,360.84
C3-C3872		CAPITAL	3	7858	1894	CAT	Horizon NR, LLC	LFI - Job 24 Carro Cr	48	••	75,418,28
2501	227900451	CAPITAL	3	Sept F	1896	CAT	Horlson NR, LLC	LRI - Job 27 Pertins	4	•	66,707,88
1,6611	03000030	CAPITAL	35	160	1990	GE Capital	Leste Resources, in	LRt - Job 02 Walkers	Я	••	12,850,40
16512	83100755	CAPITAL		160	1966	GE Capital	Leafe Resources, In	LRI - Job 24 Camp Cr	×	•	16.910,32
1,0513	83003145	CAPITAL	Cel	180	1960	GE Capital	Laste Resources, In	LRI - Job 24 Camp Cr	Ħ	*	71,486.87
11134	27001501	CAPITAL	3	Dion	1961	GE Captal	Lesse Resonant, in	LPI - Job 23 Acres L	R	•	25,788.67
רצאוז	SOWCOBAD	CAPITAL	3	SPARE	1965	GE Capter	Leshe Resources, in	LRI - Job 23 Aceso L	×	w	18,910,19
L1130	11002198	CAPITAL	3	Dev	1980	GE Capital	Lesse Resources, In	LRI - Job 23 Acres L	8	19	17,191,07
12228	63307214	CAPITAL	3	880C	1866	GE Captel	Lesta Resources, In	LRU - Job 23 Aceso L	R	e 9	10,314.72
1,2230	65007221	CAPITAL	5	2000	1966	GE Cuptus	Last's Resources, in	LRI - Job 23 Apaco L	2	n	10,314.72
L1137	2VD00308	CAPITAL	I	DION	1982	GE Capital	Lesfe Resources, in	UR - Job 07 Georges	Я		38,678.SM
11110	ZYD01560	CAPITAL	3	DION	1980	GE Capital	Lettle Resources, in	Evergreen Mine	g		27,505.79
1227	SDMD3854	CAPITAL	3	6998	1979	OE Capital	Leafe Resources, In	Evergreen Mine	я	•	6,018.92
ובבבו	8021400028	CAPITAL	3	3000	1979	GE Capital	Lesfa Resources, in	P.C - Mediat Fort U/G	2		7,735.91
12238	50W01852	CAPITAL	3	9940	1877	GE Capital	Layle Resources, In	LRI - Ide Equipment	R		6,016,02
N2271	50W08817	CAPITAL	3	5296	1983	GE Capital	Lesfie Resources, In	LFE - ide Equipment	8	**	8,456.16
1,6603	803,01671	CAPITAL	20	190	1990	GE Capital	Learle Resources, in	LRt - Ishe Equipment	200	\$	7,735.91
12221	SDW10042	CAPITAL	3	Special Specia	1990	GE Capital	Leafs Resources, in	LR1 - Equipment Rest	R	**	26,796.67
1,7604	06201186	CAPITAL	3	963	1963	GE Capital	Ledle Resources, In	LRI - Meceleneous	*	*	6,878.48
LT128	1,002113	CAPITAL	3	DBM	1903	GE Captur	Leafe Resources, in	LRI - Macetaneous	*	•	22,348,43
12209	50W06656	CAPITAL	ă	80908	1961	GE Cupted	Leste Recurse, in	LRI - Job 47 Stolean	8		0,595.60
11117	14702808	CAPITAL	3	Dog	1984	GE Caphal	Lasfe Resources, in	UR - Job 44 Coderel	Ħ		13,752.96
2117	2YD02271	CAPITAL	3	DION	1962	GE Capital	Leefe Resources, in	LPS - Job 44 Cockes	96		34,362.27
121	SOWDEDBI	CAPITAL	78	8998	1987	GE Captal	Louis Rescurtan, An	LPU - Job 44 Cooteni	2	10	14,812.39
1,5605	TAYCOCK 36	CAPITAL	Cel	2358	1946	GE Captal	Leads Resources, in	LN - Job 44 Coderal	8		12,003,77
11141	2Y002471	CAPITAL	8	DION	1963	GE Captal	Lesses Resources, in	LPI - Job 44 Coctral	*	•	47,276.67
L1129	1,002187	CAPITAL	n n	Neo	1990	GE Captal	Lesille Resources, in	LAU - Job 44 Cocleni	36		18,910.19
71133	1,0002200	CAPITAL	Č	Ser	1990	GE Captel	Lastle Resources, in	LRI - Job 24 Camp Cr	36		18,810,19
L1136	2YD02448	CAPITAL	25	NOID	1993	GE Capital	Laste Resources, in	LRI - Job 24 Cerry Cr	8		42,077.74
11139	2VD02448	CAPITAL	3	Nato	1993	GE Captal	Lastie Resources, In	LRt - Job 24 Camp Cr	2	•	38,679.54
L3118	2YDC0784	CAPITAL	3	DION	1658	GE Capital	Lesile Resources, In	LRI - Job G7 Georges	R	*	17,191,07
30-2324	2002124	CAPITAL	Fletcher	RR113	•	J. H. Fielcher	Piles Courty Cout	PC - Mine - 582 UG	12	•	37,222,72
9680	DAAG11530871	HONTHAKOM	Marck	DAME	1078	Austin Powder	Horbon NR, LLC	Evergreen Mine		**	í
09-600	1FD2r90L95VA07580	_	Ford	~	1905	Austin Powder	Hortzon NR, LLC	Evergreen Mine	•	•	
08-794	1M2AA18YTVW071784	-	Mack	ROBOO	1997	Austh Powder	Horizon NR, LLC	Evergreen Mine	98	•	2,844,84
581-83	14CP114C3YA002186	OPERATING	Marck	PEDBOO	2000	Austin Powder	Horizon NR, LLC	Evergreen Mine	8	••	2,844,83
2442	ADZDORG	OPERATING	J	DANG	2002	7	Hortzon NR, LLC	AM - Alley Branch	4	*	11,625.29
6136	BFE00138	OPERATING	3	3220	2002	CAT	Harbren NR, LLC	AM - Job #17 South	4	"	6,510.65
10035	25ZDBBBS/LDTC20S3TYC DPERATING	COPERATING	3	3518 Gen Sert	4	5	Mining Technologies,	88 Minding HAWA	8	*	4,429,52
19036	25206668H DTC20S36YC OF ERATING	COPERATING	¥	3518 Gen Set	4	2	Maring Teramologies,	BB Minns HWM	28	14	4,429,62
03-02584	61-0400673	MONTH-MONTH	100	7,058	1908	2	Evergreen	Evergreen Mine	-	**	4,254,06
CO-02586	64-600674	MONTH-MONTH	3	7858	1987	2	Evergraen	Evergreen Mins	-		4,234.05
62-00018		OPERATING	3 7	9630	2000		Evergreen	Evergreen Mins 6	8		21,527,26
CD-1323	APXOOX23	OPERATING	3	7850	200	3	Hortzen NR, LLC	Evergreen Mine	9	to to	6,820.59
06-3540		OPERATING	Cet	330BL	1890	Ç	Evergreen	Evergreen Mine 6	2	*	2,028,00

SCHEDULE 3.3(a)(iii)

6027	62,01027	OPERATING	Call	15H	2002	CAT	Horteon NR, LLC	Evergreen Mine	60		6,830,60
02-00014	2ZR01545	OPERATING	Cal	968F	1998	CAT	Evergreen	Evergreen Mine	60	\$	-,
02-00013	2ZR01541	OPERATING	Cet	968F	1998	CAT	Everpreen	Everpreen Mine	60		
2452	AD200452	OPERATING	Cel	992G	2002	CAT	Horizon NR. LLC	Evergreen Mine	48		11.130.34
3321	APADOS21	DPERATING	Cet	786C	2002	CAT	Horizon NRL LLC	Evergreen Mine	48		11,354,72
3322	APX00322	OPERATING	Cart	785C	2002	CAT	Horizon NR. LLC	Evergreen Africa	48	8	8,630,00
02-2301	27R02301	OPERATING	CH	988F	7	CAT	Mirring Technologies,	Kenneout Energy HWM	60		3,413,50
M1825	7PZ00825	OPERATING	Call	DIIR	2007	CAT	Horizon NR, LLC	Kindii 2	48		10,709.92
1634	7P200034	OPERATING	Cet	D11R	2002	CAT	Horizon NR, LLC	Kindil 2	48	4	12,110,13
1838	7P200838	OPERATING	Cirl	DIIR	2002	CAT	Horison NPL LLC	Kindii 2	48		12,110,12
1839	7P200639	OPERATING	Cat	DITE	2002	CAT	Horizon NR, LLC	Kindil 3	48		
1640	7P200640	OPERATING	Cet	D11R	2002	CAT	Horizon NPL LLC	Kindili 3	48	8	
02-0162	AOZ00162	OPERATING	Cet	992G	2000	CAT	Surmy Ridge Mining C	LRI - Job 05 Chayles	60		18,265,91
01-08453	BTR00350	OPERATING	Cet	DITE	1998	CAT	Surrey Ridge Mining C	URI - Job 05 Chayles	12		38,882,32
5424	CAP00424	OPERATING	Cat	330CL	2002	CAT	Hortzon NR, LLC	LRI - Job 07 Georges	48	8	6,510,65
8021	1M2P278C7WM002177		Mack	RD888SX RED	1995	CAT	Lesie Resources, In	LRI - Job 07 Georges	12		1,546,97
02-410	ADZD0410	OPERATING	Cat	992G	2002	CAT	Hortma NR. LLC	LRI - Job 07 Georges	48		8,510,65
1157	9TR00285	DPERATING	Cat	DITE	1998	CAT	Lesis Resources, in	LRI - Job 07 Georges	12		7.845.50
1603	7PZ00803	OPERATING	Cal	0118	2002	CAT	Horizon NR. LLC	LRI - Job 07 Georges	46		6,510,64
2544	2TW00844	OPERATING	Cat	958G	2002	CAT	Horizon NR. LLC	LRI - Job 07 Georges	46	8	6,510,64
2415	A0700415	OPERATING	Cat	982G	2002	CAT	Horizon NR, LLC	LRI - Job 24 Cerro Cr	48		6,510,85
2448	ADZ00446	OPERATING	Cel	982G	2002	CAT	Hortzon NR, LLC	LRI - Job 24 Camp Cr	49	8	6,810,66
1589	77200589	OPERATING	Cet	DIIR	2002	CAT	Hortzon NR, LLC	LRI - Job 24 Camp Cr	48	8	6,510,65
8020	1M2P278G5WM002176	OPERATING	Mack	RD686SX	1996	CAT	Leslie Resources, In	LR1 - Job 24 Camp Cr	12	2	1,649,97
2572	2TW00572	OPERATING	Cat	988G	2002	CAT	Hortzon NR, LLC	LRI - Job 24 Camp Cr	48	8	6,610,68
03-08440	8HK00898	OPERATING	Cel	7858	1998	CAT	Sunny Ridge Mitring C	LRI - Job 24 Camp Cr	12	8	8,707.62
03-06441	614000899	OPERATING	Cas	7858	1995	CAT	Surery Ridge Mining C	LPI - Job 24 Camp Cr	12	5	12,917.58
1821	7PZ00621	OPERATING	Cat	DITR	2002	CAT	Horizon NR, LLG	LRI - Job 12 Russel	48	8	10,709,92
2054	7HR00103	OPERATING	Cat	992G	1997	CAT	Lesile Resources, In	LPU - Job 44 Cockrel	12	8	8,602.62
3319	APXXXX18	OPERATING	Cat	785C	2002	CAT	Horizon NR, LLC	MCC - Starfire	48	\$	10,941,58
3320	APX00320	OPERATING	Cal	785C	2002	CAT	Horteon NR, LLC	MCC - Starfire	48	8	10,941,58
08-0560	1G8M7H1CXXL106560	OPERATING	Chevy	C7H042	1999	CAT	Alining Technologies,	MTI Shope	60	5	740.74
CB-8405	1GBM7H1CXXX1106405	OPERATING	Chavy	CTHO-CZ	1099	CAT	Mining Technologies,	MTI Shops	80	8	749.74
05-06452	45500944	OPERATING	Cat	CASEL	1994	CAT	Surray Ridge Minleg C	SA - Job 10	12	8	2,723,76
01-06450	347200836	OPERATING	Cel	DIOR	1996	CAT	Sunny Ridge Mining C	SR - Job 24 Dicks Kn	12	s	28,915.25
02-00016	7HR00281	OPERATING	Cet	992G	1996	CAT	Evergreen	SR - Job 24 Dictor Kn	60	8	
1173	9TR00348	OPERATING	Cet	D11R	1998	CAT	Plies County Coal	SR - Job 24 Dicks Kn	12	8	7,807.86
1563	7PZ00563	OPERATING	Cat	DIIR	2002	CAT	Horizon NR, LLC	SR - Job 24 Dicks Kn	48	\$	11,130,34
5605	2JR03805	OPERATING	CIEL	325L	5005	CAT	Hartenn NR, LLG	SR - Job 24 Dicks Kn	48	3	0,510.65
8029	1M2P278C3XXXXX2228	OPERATING	Mack	RD688SX	1999	CAT	Surery Ridge Mining C	SR - Job 24 Dicks Kn	80	8	1,856,07
83-06455	614000944	HTHOMHTHOM	Cat	785B	1996	Citicapital (GE)	Surry Ridge Mining C	SR - Job 24 Dicks Kn	1	8	0,742.20
14-PU30		HTHOM-HTHOM	Ford	F250 XL	1995	Enterprise	Plos County Coel	Add Prep Team	1	3	2.61
14-PU31	1FT)-00269-445KB222293	MUNTH-MONTH	Ferd	F250 XLT RED	1095	Enterprise	Pice County Cost	Add Prep Teem	36	5	2.81
14-89537	2MELM74WX3X869637	HTMONTHON	Mercury	GrandMarquie	1995	Enterprise	AEI Cool Seles	AEI - Operations Man	t	8	2.21
14-110524		MONTH-MONTH	Ford	Explorer	1967	Enterprise	AEI Cost Sales		60	8	2.21
14798	1GCGIQ9R7WE170437		Cheyrold	CK2500	1996	Enterprise	AEI Resources	AEI Resources - Gene	48	8	70.25
14-17994	2MEFM74WOWX\$17994		Marcury	Grand Marqui	1996	Enterprise	AEI Coal Setse		1	g	221
14-011	1GNEX13253J285011	OPERATING	Chevy	Tehos LS Tehos LS	2003	Enterprise	AEI Resources		38	8	•
14-96335		OPERATING OPERATING	Chevy	Tahoe LS	2001 2003	Enterprise	AEI Resources		48	8	70.25
14-365			Chevrolet	Tahos LS		Enterprise	AEI Resources		36	8	
14420		OPERATING	Chevy	Tahos LS	2003	Enterprise	AEI Resources		36	8	
14752		OPERATING	Chevy	1500	2003	Enterprisa Enterprisa	AEI Resources Horizon NR. LLC		36	3	
10.00	IOPEKIALI TETAL 1.32	OL FLOVILLED	TO THE PERSON NAMED IN	1000	2000	en eathined	THE STATE AND	AEI Resources - Gene	36	8	

SCHEDULE 3.3(a)(iii)

14182	1FM0033008VUD47180	HTHOMHTHOM S	Ford	Explorer	1997	Enterprise	AEI Resources	AEI Resources - Info	1	8	70,25
14-62278	2GCEK19TX11362278	OPERATING	Chevy	Silveredo	2001	Enlerprise	Sunny Ridge Mining C	AM - Alley Branch	48	8	472.21
14-99352	1GNEX13T81R199362	OPERATING	Chevy	Tahoe LS	2001	Enterprise	Evergreen	AM - Operations Mana	48	8	311.22
14-69279	1GNDT13WVZ169279	MONTH-MONTH	Chevy	S10 Blazer	1997	Enterprise	AEI Resources	Ashland Accounting-A	1	\$	70.25
14090	1FAFP55U83A243CR0	OPERATING	Ford	Taurus	2003	Enterprise	AEI Resources	Ashinnd Accounting-A	36	3	-
14-08000	1FTHF26H7RNA96846	HTMOMHTMOM !	Ford	F250 RED	T\$94	Enterprise	Evergreen	Evergreen Mine	1	\$	7,05
14-08001	187MF3650R\$680670	нтиом-нтиом	Dodge	RAM 3500	1994	Enterprise	Evergreen	Evergreen Mine	1	3	7.05
14-08013	2FTHF26HOTCA21125	HTHOM-HTHOM	Ford	FZ50 GREEN	1996	Enterprise	Evergreen	Evergreen Minn	1	\$	•
14-08017	1FTHFZ8H1VEB54625	HTMONHTMONTH	Ford	F250	1997	Enterprise	Evergreen	Evergreen Mine	1	\$	7,05
14-08020	1FTHF26HOVEA94027	HTMONHHTMOM	Ford	F250	1997	Enterprise	Evergreen	Evergreen Mine	1	\$	7.05
14-14815	1GNEK13R5XJ470388	HTMOMHTMOM	Crevy	Tance	1990	Enterprise	EverBiness	Evergreen Mine	1	2	7.05
14-478	1GCHIC24L23E316478	OPERATING	Cherry	Saverado	2003	Enterprise	Evergreen	Evergreen Mine	24	3	
14970	1GCHQ4U03E317970	OPERATING	Chevy	K1500	2003	Enterprise	Evergreen	Evergreen Mine	24		
14107	1GCH024U53E317107	OPERATING	Chevy	K1500	2003	Enterprise	Evergreen	Evergreen Mine	24	\$	
14739	1GCH9024U43E316729		Chevy	K1500	2003	Enterprise	Evergreen	Evergreen Mine	24	8	*
14-07999	2FDKF36G8RCA27216		Ford	F350	1984	Enlerprise	Evergreen	Evergreen Plant	1	8	7.05
14-81216	2GCEK19TX21181215	OPERATING	Chevy	Silverado	2002	Enterprise	Leste Resources, 61	LRI - Job 05 Chavles	48	8	298.29
14-63688	1GCEK19781E183668	OPERATING	Chevy	Silverado	2001	Enterprise	Lesia Resources, in	LRI - Job 07 Georges	48	3	298.28
14-95031	ZGCEX191711298031	OPERATING	Chavy	Silverade	2001	Enterprise	Locie Resources, In	LRI - Job 07 Georges	48	5	299.28
14951	1GCH/Q4U73E317951	OPERATING	Chevy	2500	2003	Erserptice	Lesie Resources, In	LRI - Job 07 Georges	24	\$	•
14-458	1GCHK24UB38316459	OPERATING	CHEVY	2500HD	3003	Enterprise	Lesie Recources, in	LPd - Job 24 Camp Cr	24	\$	-
14349	1GCEK19173Z323349	OPERATING	Chery	1500	2003	Enterprise	Lesis Resources, in	LRt - Job 24 Cemp Cr	36	\$	*
14489	1GCHRZ4U03E319489	OPERATING	Chevrolet	2500HD	2003	Enterprise	Lesia Resources, In	LRt - Job 24 Camp Ct	24	1	
14143	1GCEK14T83Z320143	OPERATING	Chevrolet	818	2003	Enterprise	Lesie Resources, In	LRI - Job 24 Camp Cr	36	8	•
14054	1GCH024U53E318054	OPERATING	Chevrolet	2500HD	2003	Enterprise	Lesie Resources, in	LRI - Job 32 Russel	24	\$	•
14212	1GCHK24U43E324212		Chevrolet	250CHD	2003	Entorprise	Lecia Resources, in	LRI - Job 32 Russel	24	8	
14811	1GNEX13763.2281811	OPERATING	Chevrolet	Tahoe	2003	Enterprise	Lesia Resources, In	LPS - Job 42 Operati	36	8	
14185	1FTRX18LB3NEBB180	OPERATING	Ford	F160	2003	Enterprise	Lesie Resources, in	LRI - Job 42 Operati	36	8	•
14-23543	1GCEX19751E123643	OPERATING	Chevy	Silverado	2901	Enterprise	Lesie Resources, in	MCC - Startire	48	8	298.29
14-58180	1FMDU3-02SUA98160		Ford	Explorar	1995	Enterprise	Mining Technologies,	MTI - Purcheeing/Wer	1	\$	3.BS
14-9575	IFTCRIBLETPASSS76	HT/IOM-HT/IOM	Ford	Ranger	1995	Enterprise	Piles County Cost	MTT Shops	1		281
14-PU020	1FTEF14N6SL85482Z	HINOMHUMON	Ford	F150	1985	Enterprise	Pike County Cost	PC - Bates Brench PI	1		
14-51363	1FTZR15C2WPA51363		Ford	Ranger F250 4X4	1998	Enterprise	Pile County Cost	PC - Gales Branch Pt	1		2.81 2.81
14-PU38	1FTHF26H7TLA67451	HONTH-MONTH	Ford		1998	Enterprise	Pilos County Cost	PC - Clark Elkhorn S	1		2.81
14-78121	1FMDU3-00ETUC78121	HT/MOM-HT/MOM HT/MOM-HT/MOM	Ford Ford	Explorer Explorer	1996	Enterprise	Pike County Coel	PC - Operatione Mane	1		2.81
14-98580	1FMZY340C2W4Z98580					Enterprise	Pike County Coel	PC - Operations Mana	1	4	2.81
14348	1GCEX18TX32324348	OPERATING	Chevrolel	1500 1500	2003	Enterprise	Sunny Ridge Mining C	SR - Job 10	38	•	100
14-679	1GCEX19783Z323679	OPERATING	Chevrolet Chevrolet	1500	2003	Enterprise	Sunny Ridge Mining C	SR - Job 24 Dicks Kn	36	3	
14-869	1GCEK19T63Z322869	OPERATING	Chevidet	1300 K1500	2003	Enterprise	Sunny Ridge Mining C	SR - Job 24 Dicks Kn	36	3	-
14180	1GCEK19TX32322180	OPERATING	STATE OF THE PARTY	S2500	2003	Erserption	Sunny Ridge Mining C	SR - Operations Mana	36	3	•
14972	1GCHCHL39E319972	OPERATING	Chevy Toshiba	52500 E-80x00 55		Enterprise	Tunta Coal Company	Turns Plent	24		
41-299	HG112299	OPERATING		E-60000 33	?	GIE Capital	Leefe Resources, In	LRI - Job 40 Engines	36	1	842.98
41-653	96201553	MONTH-MONTH	Sharp	70 D. O. C.	?	GreetAmerican Leasin	Evergreen	Evergreen Mine	36	-	•
41-663	56SE00663	OPERATING	Konica IR	7155 DMLLP1200	2004	Information Leasing	Horizon Natural Reso	Evergreen Mine	36	8	10,959.00
04-750	7750 7732	OPERATING OPERATING	IR IR	DMLLP1200	2002	ingersol-Rand Comps	Horizon NR, LLC	Evergreen Mine	60	1	10,989.00
4732	7732		IR	DM45ELP900		Ingersol-Rand Comps	Herizan NR, LLC	Evergreen Mine	60		
4751	7761	OPERATING	IR IR	DALL LP1200	2002	Ingersol-Rand Compa	Horizon NR, LLC	LRI - Job 24 Camp Cr	60	\$	13,632.52
4778 4768	7776 7788	OPERATING OPERATING	IR IR	DML LP1200 DM45E	2002	Ingersol-Rand Compa	Harteon NR, LLC	MCC - Surfre	60	3	13.632.39
4758	7756 7779	OPERATING	IR IR	DML LP1200	2002	Ingersol-Rand Compa	Horizon NR, LLC	MCC - Starfire	60	-	,
4779 G1-10030	10030	OPERATING	Komstau	DML LP1200 676	1997	Ingersol-Rend Compa Kumalay	Herizon NR, LLC	MCC - Starfine	60 36	*	21,938,00
02-022	1003D A60072	OPERATING	Komateu	WASOUL	1997	Kornelau	Hortzon NR, LLC	Everymen Mine	36	3	*
02-019	A50018	OPERATING	Komates	WARROOLC	2002	Kometsu:	Horizon NR, LLC Horizon NR, LLC	Evergreen Mine Evergreen Mine	80	3	5
V6-V19	- TOWN 10	O CONTINU	C Section and Alleria			rue mateu,	CHARLING LLC	CARINEAU NILIA	80		-

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**	14	w	•	10	**	-	•	•	-	•	**		*	•	•	**	••	**	w	*	**	•	**	*	*	**		•	49		••	••	••	•	••	40	••	10	•	**	40	•		•	4		•	**			•	**
8	08	8	8	20	8	8	9	8	8	8	8	8	8	8	90	8	8	2	8	8	8	8	_	98	-	8	98	8		-	8	28	8	_	92	_	x	9	×	-	Ŀ	×	7	ø	a		0		•			
Everyween Affre	Evergreen Mine	Evergreen Mans	Evergreen Mine	Evergreen AGne	LPB - Job 24 Cemp Cr	LRI - Job 24 Camp Cr	LRI - Jab 24 Cemp Cr	LRI - Job 24 Camp Cr	LRI - Job 24 Camp Cr	LRI - Job 24 Comp Cr	URI - Joh 24 Camp C.	LNI - Job 24 Cemp Cr	LPG - Job 24 Camp Cr	LRI - Job 24 Camp Cr	LRI - Job 47 Stosen	LRI - Job 47 Setteen	S.R Job 24 Clicks Kn	8R - Job 24 Dicts Kn	SR - Job 24 Diotes Kn	SR - Job 24 Digits Kn	BR - Job 24 Dicha Kn	5R - Joh 24 Ditte Ko	AEI Resources - Engi	AEI Resources - Engl	Everysen Mine	Everyteen Mine	Evergreen Mine	LFG - Job 05 Charles	LRI - Job 67 Georges	LPU - Job 07 Georges	LRS - Job 07 Gaorges	LRI - Job 24 Certy Cr	LRU - Job 32 Plussel	LRI - Job 44 Cockrei	PC - Bates Branch Pt	Turne Plant	AEI Resources - Gens :	AEI Resources - Cane 3	AEI Resources - Gene	AEI Rescurate - Gene 5	AM - Operations Mane 6	Evergreen Aftre 5	LRI - Job 40 Engines 1	Kannecott Energy HWM 6	Kennecott Energy HWM 6	Kennecott Energy HWM 6	MTI - Idle HWM Equa	Evergreent Mine 1	AEI Resources - Gens 36	A& Resource - Gens 62	Evargreen Mine 1	Evergreen Mine 1
Herben NR, LLC	Hortzen MR, LLC	Hortzen NR, U.C.	Hortzon NR, LLC	Horteon NR, LLC	Hortzon NR, LLC	Horton NR, LLC	Hortron MR, U.C.	Hoston AR, LLC	Mordown NR, LLC	Hortzon NPR, LLC	Hortzen NR, LLC	Horlson MR, LLC	Horton NR, LLC	Hortzon MR, LLC	Horlean MR, LLC	Hortzon NR, LLC	Hortzen NPR, LLC	Horizon NR, LLC	Horteon NR, LLC	Hodzon NR, LLC	Hortzon NR, LLC	Hortzon NP, LLC	AEJ RESOUTS	AEI Resecrates	Evergreen	Evergreen	Evergreen	Lessie Resources, in	Lastle Resexpress, In	Leelie Raedumbe, in	Leafs Resources, in	Ladle Resturbe, in	Laste Rescursed, in	Laste Resources, in	Phie County Chair	Turns Cost Company	AE Resources	Harlam MM, ELC	Herbon MR, LLC	Hortzon NR, LLC	Piles County Coal	Evergreen	Leefs Resources, in	Minny Technologies,	Mining Technologies,	Maring Technologies,	Mining Technologies,	Evergreen	AE Resources	AEI Resources	Evergreen	Evergreen
Komalsu	Kometau	Kowatsu	Komatav	Komatsu	Kometsu	Kometan	Morn plan	Komebu	Kometsu	Komateu	Kommen	Kometeu	Kometey	M committee	Kometsu	Kernetau	Kornetteu	Kontabu	Kamathu	Korháttsu	Komethu	Wormalist	MM	MM	FABATI	PMM	MMG	NO.	1440	MM	PMPI .	PKW)	104	Thurs.		WA	Pliney Bowes	Pitray Bowes	Pahary Bowes	Pitney Bowes	Princy Bowed	Pirey Bowes	Panery Bowea	Provident	Provident	Provident	Provident	Santy Financial Cor	Superlor Office Serv	Superfor Office Serv	Warter Express	Weiter Express
2002	2002	2002	2002	1898	200	2002	2002	2002	2002	2002	2002	2002	2002	2002	2002	2002	2002	200	2002	2002	2002	2002	1980	1998	1997	1990	1990	1966	1939	1900	1999	1994	200	1883	200	1960	~	-		-	~	•	^	-	•	2	•	1996	2	,	2000	~
WASCO	D475A3	547543	D475A3	575	HD7856	WASODS	HC7855	HD1300	D475A3	WASOCI	D476A3	PCADOLCSM	WARCOS	HD1800	HD15005	HD15005	CUTTAAS	375.6	WAEDCELK	WASDO	276.5	375-6	MD1654	рен	DMW2XL1800	700	789	WECH TRUCK	F700	F700	RDB685X	F700	DAMS, PSCO	200	1.00	Neg	USTO	OLES Copies	1308	200		6210	V900	System15	Water Taret	Vertical 16	Stades	DAMAZIQ 1800	IR60005	CLC1120	MC72DKT	THES
Konathu	Konstau	Komette	Komman	Komatsu	Komatau	Mamadau	Kometsu	Kometau	Kortetru	Kerneteu	Kompeteu	Komadau	Kometsu	Kornaksu	Котвры	Komehu	Kombahau	Komerbu	Komelau	Kortsetsu	Kometeu	Korntau	Introdiscond	3	臣	ð	5	GIVC	Ford	Ford	Mack	Ford	5	Pag.	Fort	3	Pitney Bowns	Pitray School	Pitray Bowes	Pitray Bowes	Pittiey Bowns	Pitney Bowes	Pitney Bowes	-	~	2	2	Œ	Canon	Canon	Grave	iii d
OPERATING	OPERATING	OPERATING	COPERATING	DPERATING	OPERATING	OPERATING	DPERATING	OPERATING	DPERATING	OPERATING	OPERATING	OPERATING	OPERATING	OPERATING	OPERATING	OPERATING	HTNOW-HTMONTH	CPERATING	MONTH-MONTH	OPERATING	OPERATING	OPERATING	MONTH-MONTH	MONTH-MONTH	OPERATING	OPERATING	OPERATING	MONTH-MONTH	OPERATING	MONTH-MONTH	OPERATING	OPERATING	DPERATING	OPERATING	OPERATING	OPERATINO	MCMTH-MONTH	OPERATING	OPERATING	OPERATING	OPERATING	MONTH-MONTH	MONTH-MONTH	OPERATING	MONTH-MONTH	MONTH-MONTH						
A50018	10709	10712	2 20	10036	Attobe	A63014	A 10267	A30068	10728	A71128	10779	ABSTOL	A50019	A3008	A30067	ANODES	19091	18083	A43013	ASSIGNE	18064	19007	AA185KHA2137D/FHA38: MCNTH-MONTH	44001950	757	\$ZC00513	92C00817	1000001F3GV513730	1FDXK/74P5KVA23090	1FDXXC4PSICVA37075	1W2P278C-DOADG2145	1FDXXXCBRVA12558	1700	1FDX0C74PBICVA23089	2FDCF47M8PCB34211	1,000,116	0041106	2080280	tooto	1020-03	7006344	192561	0008048652	22001-22028	•	LVB14	•	4276	NAFOZO18		254076	
91001700	1706	61.0	1748	9000010	3288	2014	1287	3088	17	21.28	1729	1221	2519	3068	3067	3008	01-089	1063	2013	2020	94-054	700-10	Wedzo	MO1-1950	144.29Z	CTACA	MSATA	148644	MDB-84457	MDB-84484	MBCZ27	MDB-64473	MD4-7708	MOB-64001	MOB-45398	M1183	11-126	41,280	41-323	41-433	41.344	41-291	41482	22016	260035	23015	22815	04-030-77	41-018	41-178	11-4076	CB-4532

SCHEDULE 3.3(2)(IV)

4-1-19													
14-07.23 15-07.07		41-374	2500374X	OPERATING	Sharp	AR507	7	Wells Copy Systems	Turris Coal Company	Ekhari LI/G General	46	8	
14-2221 COCCURRENT CONTROL Community Commun		41-197	6680197X	OPERATING	Sharp	SF2120	7	Watte Copy Systems	Turns Coal Company	Elitheri U/G General	36	3	
14000 100000000000000000000000000000		14477	1FMPU18L9WLB59335	MONTH-MONTH	Ford	Expedition	1908	Wheels	Horizon Natural Reso	AEI - Operations Men	1	\$	
14-06 1-06		14-22571	2GCEX10T4Y13ZZ871	OPERATING	Chevrolet	Silverado	2000	Wheels	Horizon Natural Reso	AEI - Operations Man	50		
1-00061 1-00		14483	1GCG/Q9R7WE194625	HTHOMHTHOM	Chevrolet	K2500	1992	W/reports	Horizon Natural Reso	AE! Resources - Engi	1		
14-14-13 COURT C		14485	1GCGK29RXWE192691	MONTHMONTH	Cheviolei	K2500	1998	Wheels	Horizon Natural Reso	AEI Resources - Engi	1	5	
14-1412 COCKYRITOCOM CONTROL		14509	1GNEK13R9XJ385814	MONTH-MONTH	Chevroist	Tahoe	1998	Wheels	Horton Natural Reso	AEI Resources - Engl	1	3	
10001119/07/200400 10001119/07/200400 10001119/07/200400 1000119/07/200400 1		14047	2GCFIC29KXR1246429	HTHOMHTHOM	Chevrolet	K2500	1994	Wheels	Horizon Natural Reso	ASI Resources - Engs	1	5	
1-000119-07/12/20/24 1-00011-0-07/12/20/24 1-00011-0-07/12/20/24 1-00011-0-07/12/20/24 1-00011-0-07/12/20/24 1-00011-0-07/12/20/24 1-00011-0-07/12/20/24 1-00011-0-07/12/20/24 1-00011-0-07/12/20/24 1-00011-0-07/12/20/24 1-00011-0-07/12/20/24 1-00011-0-07/12/20/24 1-00011-0-07/12/20/24 1-00011-0-07/12/20/24 1-00011-0-07/12/20/24 1-00011-0-07/12/20/24 1-00011-0-07/12/20/24 1-00011-0-07/12/20/24 1-00011-0-07/12/2		14-14812	1GCEK19TXXE158728	HUNOWHINDM	Chevrolet	CK1500	1999	Wheels	Horizon Natural Raso	AES Resources - Engi	1	\$	
14-1410 10/04/EST311/EST4100 0/04/ESTATION Chrowtols Table 2001 Wheels Hotem Natural Reso AEI Resources - Engl 5 5 5 1 1 1 1 1 1 1			10NDT13W7T2292440	HONTH-MONTH	Chevrolet	\$10 Blazer	1898	Wheels	Horizon Natural Reso	AEI Resources - Engl	1	5	
		14678	1GNEK13R00U429658	OPERATING	Chevrolet	Tehoe	1999	Wheels	Horizon Natural Reso	AEI Resources - Engl	1	4	
14-08-072 1/30-062		14-14108	1GNEK13T31R114108	OPERATING	Chevrolet	Tahee	2001	Wheets	Horizon Natural Reso	AEI Resources - Engi	90	8	
14-68472 GOCENTRY15280476 OPERATING Chewy Severation 2001 Wheels Horizon Natural Rana All Resources - Engl 50 8 14-64500 GOCENTRY15280700 OPERATING Chewy Severation 2002 Wheels Horizon Natural Rana All Resources - Engl 50 8 14-22 Chew Severation 150 Chew 150				OPERATING	Chevrolet	Tahoe	2001	Wheels	Hartson Netural Reson	AET Resources - Engl	50	3	
14-64/CQ GOCENTRICE/194442 OPERATING Chaywoll Shewds 15 200 Wheels Hotizan Nebrari Rase AE Resource - Engl 50 8 14-6270 15 15 15 15 15 15 15 1						Silverado LS						8	
14-27/10						Silverado					50		
14481 SIMPICINSESUESSEE DIFERNATIVA Chewrola Tehos 1909 Wheels Horizon Natural Rase ALP Resources - Care 1 8												2	
1488 1PD_ATTYNECS 081 MONTH-MONTH Ford F430 1997 Wheels Mining Technologies, AE Resources - Gare 1 8 14873 SQUAFKIREXTIGUSS370 MONTH-MONTH Chewnold Turke 1990 Wheels Hotton Natural Reso AE Resources - Gare 1 8 14786 TORKICALES/CAMIS MONTH-MONTH Chewnold Turke 1990 Wheels Hotton Natural Reso AE Resources - Gare 1 8 14786 TORKICALES/CAMIS MONTH-MONTH Chewnold Turke 1990 Wheels Hotton Natural Reso AE Resources - Gare 1 8 14786 TORKICALES/CAMIS MONTH-MONTH Ford F450 1998 Wheels Hotton Natural Reso AE Resources - Gare 1 8 14786 TORKICALES/CAMIS MONTH-MONTH Ford F450 1998 Wheels Hotton Natural Reso AE Resources - Gare 1 8 14786 TORKICALES/CAMIS MONTH-MONTH Ford F450 1998 Wheels Hotton Natural Reso AE Resources - Gare 1 8 14786 TORKICALES/CAMIS MONTH-MONTH Ford F450 1998 Wheels Hotton Natural Reso AE Resources - Gare 1 8 14786 TORKICALES/CAMIS MONTH-MONTH Ford F450 1998 Wheels Hotton Natural Reso AE Resources - Gare 5 8 14787 TORKICALES/CAMIS MONTH-MONTH Torkical										9		8	
1485 36ELFFFFMARX1500 MONTH-HADNT Ford FASD 1997 Wheels Morton Natural Resp AER Resources - Gene 1 5												8	
1-427 SQMPKTRENCTGOSDTO MONTH-MONTH Chevrolet Sub-tolen 1990 Wheels Horzon Natural Resp AEP Resources - Gene 1 5												8	
14798													-
1-FIDS												5	
14800 16WFKIRST_250428												1	
1405066												•	
14-65086 IGHERISTICERSIDES OPERATING		N 1000000									- 2	•	
14-14-1291 11-05-12-17-1													
14-7316 3-QNFK18T71G17516 OPERATING Chevrolet Suburban 2001 Wheels Horizon Natural Raso AEI Resources - Gane 50 \$ 14-731 10CPK18T2072K1970 OPERATING Chevry Shreade 2003 Wheels Horizon Natural Raso AEI Resources - Gane 50 \$ 14-4597 10NEK13Z2072K1970 OPERATING Chevry Shreade 2002 Wheels Horizon Natural Raso AEI Resources - Gane 50 \$ 14-4597 10NEK13Z2072K1970 OPERATING Chevry Tehne 2002 Wheels Horizon Natural Raso AEI Resources - Gare 30 \$ 14-4597 IONEK13Z2072K1970 OPERATING Chevry Tehne 2002 Wheels Horizon Natural Raso AEI Resources - Gare 30 \$ 14-2020 INDITINGSEZZ2020 OPERATING Chevry Tehne 2002 Wheels Horizon Natural Raso AEI Resources - Gare 30 \$ 14-2020 INDITINGSEZZ2020 OPERATING Chevry Tehne 2002 Wheels Horizon Natural Raso AEI Resources - Gare 50 \$ 14-2020 INDITINGSEZZ2020 OPERATING Chevry TAMBELZER 2002 Wheels Horizon Natural Raso AEI Resources - Gane 50 \$ 14-2020 INDITINGSEZZ2020 OPERATING OPERATING CHEVROLET TAMBELZER 2002 Wheels Horizon Natural Raso AEI Resources - Gane 50 \$ 14-2020 AEI Rasources - Gare 50 \$ 14-2												*	ň
14-073 1GCHG18U73E1NS873 OPERATING Chevy Shverido 2000 Wheels Hortzen Natural Reso AEI Resources - Gene 50 5 14-055 2019W 62E140195055 UPERATING Chevy Ingels 2000 Wheels Hortzen Natural Reso AEI Resources - Gene 50 5 14-02075 IORNENISZEZISZEGY OPERATING Chevydel Tahos 2002 Wheels Hortzen Natural Reso AEI Resources - Gene 50 3 14-02075 IORNENISZEZISZEGY OPERATING Chevydel Tahos 2002 Wheels Hortzen Natural Reso AEI Resources - Gene 50 3 14-02075 IORNENISZEZISZEGY OPERATING Chevydel Tahos 2002 Wheels Hortzen Natural Reso AEI Resources - Gene 50 3 14-02020 IORNENISZEZISZEGY OPERATING CHEVYROLET TAHOS ZOOZ Wheels Hortzen Natural Reso AEI Resources - Gene 50 3 14-02407 IORNENISZEZISZEGY OPERATING CHEVYROLET TAHOS ZOOZ Wheels Hortzen Natural Reso AEI Resources - Gene 50 3 14-02407 IORNENISZEZISZEGY OPERATING CHEVYROLET TAHOS ZOOZ Wheels Hortzen Natural Reso AEI Resources - Gene 50 3 14-02407 IORNENISZEZISZEGY OPERATING CHEVYROLET TAHOS ZOOZ Wheels Hortzen Natural Reso AEI Resources - Gene 50 3 IORNENISZEZISZEGY OPERATING CHEVYROLET TAHOS ZOOZ Wheels Hortzen Natural Reso AEI Resources - Gene 50 3 IORNENISZEZISZEGY OPERATING CHEVYROLET TAHOS ZOOZ Wheels Hortzen Natural Reso AEI Resources - Gene 50 5 IORNENISZEZISZEGY OPERATING Chevyrolat Tahos ZOOZ Wheels Hortzen Natural Reso AEI Resources - Gene 50 5 IORNENISZEGY OPERATING Chevyrolat Tahos ZOOZ Wheels Hortzen Natural Reso AEI Resources - Gene 50 5 IORNENISZEGY OPERATING Chevyrolat Tahos ZOOZ Wheels Hortzen Natural Reso AEI Resources - Gene 50 5 IORNENISZEGY OPERATING Chevyrolat Tahos ZOOZ Wheels Hortzen Natural Reso AEI Resources - Gene 50 5 IORNENISZEGY OPERATING Chevyrolat Tahos ZOOZ Wheels Hortzen Natural Reso AEI Resources - Gene 50												17	
14-4097 10NEK13202724797 OPERATING Chevy 3rpaels 2002 Wheels Hortzon Natural Raso AEI Resources - Gene 50 \$ 14-4077 10NEK13202724797 OPERATING Chevy Tarbos 2002 Wheels Hortzon Natural Raso AEI Resources - Gene 50 \$ 14-40375 10NEK13202724797 OPERATING Chevy Tarbos 2002 Wheels Hortzon Natural Raso AEI Resources - Gene 50 \$ 14-2020 Tarbos 2002 Wheels Hortzon Natural Raso AEI Resources - Gene 50 \$ 14-2020 Tarbos 2002 Wheels Hortzon Natural Raso AEI Resources - Gene 50 \$ 14-2020 Tarbos 2002 Wheels Hortzon Natural Raso AEI Resources - Gene 50 \$ 14-2020 Tarbos 2002 Wheels Hortzon Natural Raso AEI Resources - Gene 50 \$ 14-2020 Tarbos 2002 Wheels Hortzon Natural Raso AEI Resources - Gene 50 \$ 14-2020 Tarbos 2002 Wheels Hortzon Natural Raso AEI Resources - Gene 50 \$ 14-2020 Tarbos 2002 Wheels Hortzon Natural Raso AEI Resources - Gene 50 \$ 14-2020 Tarbos 2002 Wheels Hortzon Natural Raso AEI Resources - Gene 50 \$ 14-2020 Tarbos 2002 Wheels Hortzon Natural Raso AEI Resources - Gene 50 \$ 14-2020 Tarbos 2002 Wheels Hortzon Natural Raso AEI Resources - Gene 50 \$ 14-2020 Tarbos 2002 Wheels Hortzon Natural Raso AEI Resources - Gene 50 \$ 14-2020 Tarbos 2002 Wheels Hortzon Natural Raso AEI Resources - Gene 50 \$ 14-2020 Tarbos 2002 Wheels Hortzon Natural Raso AEI Resources - Gene 50 \$ 14-2020 Tarbos 2002 Wheels Hortzon Natural Raso AEI Resources - Gene 50 \$ 14-2020 Tarbos 2002 Wheels Hortzon Natural Raso AEI Resources - Gene 50 \$ 14-2020 Tarbos 2002 Wheels Hortzon Natural Raso AEI Resources - Gene 50 \$ 14-2020 Tarbos 2002 Wheels Hortzon Natural Raso AEI Resources - Gene 50 \$ 14-2020 Tarbos 2002 Wheels Hortzon Natural Raso AEI Resources - Gene 50 \$ 14-2020 Tarbos 2002 Wheels									0. (0.000) (0.000)			85	ď
14-14797												1.5	
14-20975 IOARKY3ZZZZZZZZZ OPERATING Chevrolet Tahoe 2002 Wheels Hoteon Natural Reso AET Resources - Game 50 \$													
14-22020 IFIDEFARTYVER20M2 OPERATING CHEVROLET TRAILBLAZER 2002 Wheels Hortcon Natural Rase AEI Resources - Gene 50 8					100 to 10								
14-22020 1GNOTTISSEZZISZIZZO OPERATING CHEVROLET TALBELAZER 2002 Wheels Hortzon Natural Reso AE! Resources - Gene 50 8												-	•
14-2227 SPUDF-66PT IERZ2073 OPERATING Fort F.450 2002 Wheels Horizon Natural Reso AE! Resources - Gene 50 \$												-	
14-26574 IGARKI3ZIZIZIZIZIAD OFERATING CHEVROLET TAIDE LS 2002 Wheels Horizon Natural Reso AEI Resources - Gene 50 8												-	
14-252574 COMENTIADZIZESSTY OPERATING Chevrolet Tehno IS 2002 Wheels Hortzon Natural Reso AEJ Resources - Gene 50 8 14-49155 Chevrital Chevrolet Tahna 2002 Wheels Hortzon Natural Reso AEJ Resources - Gene 50 8 14-49155 Chevrolet Tahna 2002 Wheels Hortzon Natural Reso AEJ Resources - Gene 50 8 14-49155 Chevrolet Tahna 2002 Wheels Hortzon Natural Reso AEJ Resources - Gene 50 8 14-49155 Chevrolet Tahna S 2003 Wheels Hortzon Natural Reso AEJ Resources - Gene 50 8 14-25 Chevrolet Tahna IS 2003 Wheels Hortzon Natural Reso AEJ Resources - Gene 50 8 14-25 Chevrolet Tahna IS 2003 Wheels Hortzon Natural Reso AEJ Resources - Gene 50 8 14-25 Chevrolet Tahna IS 2003 Wheels Hortzon Natural Reso AEJ Resources - Gene 50 8 14-25 Chevrolet Tahna IS 2003 Wheels Hortzon Natural Reso AEJ Resources - Gene 50 8 14-25 Chevrolet Tahna IS Chevrolet Stock IS Chevrole													
14-29050 SGINNETYINGT20000 OPERATING											50	-	•
14-9156 ICARKH3200_Jast 850 OPERATING Chevrolet Tahos 2002 Wheels Hortcon Natural Reso AEI Resources - Gene 50 8 14-31900 Ford F-450 2000 Wheels Hortcon Natural Reso AEI Resources - Gene 50 8 14-3190 F-450 2000 Wheels Hortcon Natural Reso AEI Resources - Gene 50 8 14-300 AEI Resources - Gene 50													
14-1903 1-FIDP-46F-87FEE-1903 OPERATING Ford F-450 2000 Wheets Morton Natural Resid AE! Resources - Gene 50 \$												-	
14124												-	*
14355 3CDEK19T731191890 PERATING Cherry Shreado 2003 Wheels Horizon Natural Reco AEI Resources - Gens 50 8 1 14355 1GNDT1W617230202 MONTH-MONTH Chevrolat K1600 1998 Whoels Horizon Natural Reco AEI Resources - Ideo 1 8 1 14313 TGCEK19R3XR133347 MONTH-MONTH Chevrolat K1600 1998 Whoels Horizon Natural Reco AEI Resources - Ideo 1 8 1 14313 TGCEK19R3XR133347 MONTH-MONTH Chevrolat K1500 1998 Whoels Horizon Natural Reco AEI Resources - Ideo 1 8 1 143705 TGCEK19R1711337085 TGCEK19R171337085 TGCEK19R1713337085													*
14:305 I GNDT13W8T2130262 M ONTH-MONTH Chevrolet S10 Blazer 1998 Whoels Hortzon Natural Reno AEI Resources - Ideo 1 \$ 1 \$ 1							0000000					7	*
14551 ICCEXISPRIZERIZANG MORTH-MORTH Chevrolet KISOO 1998 Wheels Hortzon Natural Reso AE I Respures - Info 1 S 143705 Chevrolet Chevrolet KISOO 1998 Wheels Hortzon Natural Reso Ashiband Accounting-A 1 S 143705 Chevrolet Chevrolet Shvendo 2001 Wheels Hortzon Natural Reso Ashiband Accounting-A 60 S 1437013 Chevrolet Shvendo 2001 Wheels Hortzon Natural Reso Ashiband Accounting-A 60 S 1437013 Chevrolet Shvendo 2001 Wheels Mining Technologies, Bill Mining NVMM 1 S 143701 Chevrolet Shvendo 2002 Wheels Mining Technologies, Bill Mining NVMM 1 S 143701 Chevrolet Chevrole												T	
14.37953 PGCEK19RS/RT18313 MONTH-MONTH Chevrolet Shremdo 2001 Wheels Hortzon Natural Raso Ashtand Accounting-A 1 5 14.37953 PGCEK19T711337953 PGCEK19T711337953 PGCEK19T711337953 PGCEK19T711337953 PGCEK19TRIB230131 PGCEK19TRIB30131 PGC												*	*
14-30793							1070000					-	
14-30131 IGCEX18T1XE230131 MONTH-MONTH Cheworld Sivereds 1999 Wheels Mining Technologies, Bit Mining TWM 1 3 - 14-9128 2GCEX1872119129 CPERATING Chewy Sivereds 2002 Wheels Mining Technologies, Bit Mining Technologies, B												-	
14-8128									Hortzon Natural Reso	Ashland Accounting-A	60	-	
14787 IGCEXTBROWET00278 MONTH-MONTH Crewtalt X1500 1988 Wheels Mining Technologies, Bridger HVM 1 \$ 14791 IGCEXTBRIVETS102 MONTH-MONTH K1500 1988 Wheels Mining Technologies, Bridger HVM 1 \$ 14841 ZGTEXTBTS11886412 OPERATING Chevy Siens 2003 Wheels Horton Netural Reso Bridger HVM 50 \$ 14868 2GCEXTBTDX1188685 MONTH-MONTH Chevrolet 1999 Wheels Evergreen Evergreen Mine 1 \$									Mining Technologies,	MWH gninM BB	1		
14781 1GCEK18R1WE151874 MONTH-MCNTH Chevrolet K1500 1988 Wheels Mining Technologies, Bridger HVMI 1 8 14841 2GTEX19T33198942 ORENATING Chery Siens 2003 Wheels Hortson Netural Reso Bridger HVMI 50 \$ 14868 15BVSH32228165482 Depart Third Chery Téhos LS 202 Wheels Hortson Netural Reso CII - Stootion LG 50 \$ 14868 2GCEX19TDX1188985 MONTH-MONTH Chernold 1999 Wheels Evergreen Evergreen Evergreen										BB Mining HWM		_	
14841 2GEXTRIFTIS1198914 OPERATING Chary Serie 2003 Wheels Horizon Netural Read Bridger HWM 50 \$								Wheels	Mining Technologies,	Bridger HWM	1	\$	
14-80492 1GNEXT122QR156482 OPERATING Chevy Table IS 2002 Wheels Horizon Natural Reso CII - Stootton LIG 50 8 14868 2GCEX19T9X1186985 MONTH-MONTH Chevrolet 1999 Wheels Evergreen Evergreen Mine 1 8	1	4791			Chevrolet	K1500	1998	Wheels	Mining Technologies,	Bridger HWM	1	8	*
14888 ZGCEC19TDX1188985 MONTH-MONTH Charmolel Shereds 1999 Whoels Evergreen Evergreen Africe 1 \$	1	4941			Chavy	Sierrs			Horizon Netural Reso	Bridger HWM	50	\$	
Linguista Company	1						2002	Wheels	Horizon Natural Reso	CH - Stockton LJG	50	2	*
14394 1GCEX19R5WE174326 MONTH-MONTH Character K1500 1998 Wheels Evergreen Evergreen Mine 1 \$								Wheels	Evergreen	Evergreen Mine	1	8	-
	1	4394	1GCEX19R5WE174326	HTHOM-HTHOM	Chevrolet	K1500	1998	Wheels	Evergreen	Evergreen Mine	1	2	

SCHEDULE 3.3(a)(Hi)

14668	1GCEK19R7XR133142	HTHOM-HTHOM	Chevy	K1500	1999	Wheels	Evergreen	Evergroon Mine	1	5	
14668	1GCEK18RUOKR133930	HTMOM-HTMOM	Chevy	K1500	1989	Wheels	Evergreen	Evergreen Mine	1	8	
14570	1GCEK19R8XR133330	HONTH-MONTH	Chevy	K1500	1999	Wheels	Evergreen	Evergreen Mine	1	\$	
14-21171	1GNEX13761R121171	OPERATING	Chevrolet	Tahoe	5001	Wheels	Surmy Ridge Mining C	Evergreen Mine	60	\$	
14-46923	1GNEK13Z92.046923	OPERATING	Chevrolet	Tahoe	2002	Wheels	Horizon Natural Reso	Evergreen Mine	50	8	
14-76469	1GCHC4U32E178468	OPERATING	CHEVROLET	2500 HD	2002	Wheels	Evergreen	Evergreen Mine	50	8	
14-77819	1GCH024U52E277819	OPERATING	CHEVROLET	2500HD	2002	Vitneis	Evergreen	Evergreen Mine	50	8	
14-83701	2GCEK19T511283701	OPERATING	Chevrolet	Silverado	2001	Wheels	Evergrand	Evergmen Mine	90		
14-88040	1GCEK1917YE388040	OPERATING	Chevrolet	Silverado	2000	Wheels	Horizon Natural Reso	Evergreen Mine	50	8	
14-04364	1GCEK19T81E194384	OPERATING	Chevrolet	EDrerado	2001	Wheels	Evergreen	Evergreen Mate	50	8	
14-95740	1GNEK (3T) 1,295740	OPERATING	Chevrolet	Tehoe	2001	Wheels	Evergreen	Evergreen Mine	50	\$	
14-90604	1GCEK19711E198804	DPERATING	Chevrolet	8.fiverado	2001	Wheels	Evergreen	Evergreen Mine	80	\$	
14-39194	1GAHG39R4Y1230194	OPERATING	Chevrolet	Express Van	2000	Wheels	Mining Technologues,	Kenneout Energy HWM	50	\$	
14-29739	1GAHG39R\$Y1Z29739	OPERATING	Chevrolet	Express Ven	2000	Wheets	Mining Technologies,	Kennecott Energy HWM	50	8	
14803	1GNEK13R4VJ442787	MONTH-MONTH	Chevrolet	Tahos	1997	Wheels	Leefe Resources, In	LRT - Job CQ Walkers	1	8	
14468	2GCEK19R5T1207449	HTHOMHTHOM	Chevrolet	K1500	1998	Wheels	Leefe Resources, in	LRI - Job 02 Waltern	1		
14-14800	1GCEK19T7XE168905	HTHOM-HTHOM	Chevroist	Silverado	1999	Wheels	Laste Resources, In	LRI - Job 05 Chavles	1	3	
14504	10NEK13R1XJ378854	HTMONTH-MONTH	14504Chevrolet	Tahoe	1969	Wheels	Leske Resources, in	LRI - Job 07 Georges	1	\$	
14-34408	1GCEK19T82E134408	OPERATING	Chevrolet	Silverado LS	2002	Wheels	Lesle Resources, in	LRI - Job 07 Georges	60	3	
14829	1GCH4C29U63E139829	OPERATING	Chevy	Sivierado	2003	Wheets	Hodgon Natural Reso	LRI - Job 07 Georges	50	8	
14863	1GNEK13R8XL421300	HTHOM-HTHOM	Chevrolet	Tahoe	1999	Wheels	Horizon Netural Reso	LRI - Job 21 Warehou	1	3	
14398	3GNEX18R8WG118287	HTHOMHITHOM	Chevrolet	Tehos	1998	Wheels	Leele Resources, in	LRI - Job 21 Warehou	1	S	
14368	1GCEK18RXWE172931	HT/IOM-HT/IOM	Chevrolet	K1500	1998	Wheels	Leafe Resources, In	LRI - Job 21 Warehou	1	S	
14367	1GNDT13W5T2102540	MONTH-MONTH	Chevrolet	\$10 Blurer	1995	Wheels	Laste Resources, in	LRI - Job 21 Warehou	7	\$	
14-99014	2GCEX18T011289014	OPERATING	Chevrolet	Silverado	2001	Wheels	Lesie Resources, tr	LRI - Job 21 Warehou	50		
14804	1GCE(19R1XR143908	OPERATING	Chevrolet	1500	1999	Wheels	Lesie Resources, in	LRI - Job 21 Warehou	1	5	
14909	1GCECTUT EXELETSSO	HTHOMHTHOM	Chevy	S7vered0	1999	Wheels	Lesia Resources, In	LRI - Job 23 Acess L	1		
14362	1GCEK19ROWE128981	HTHOMHTHOM	Chevrolet	K1500	1996	Wheels	Leefa Reseurces, in	LRI - Job 23 Aceco L	1	3	
14392	1GCEK19R2WE174087	MONTH-MONTH	Chevrolet	K1800	1998	Wheels	Leele Ressurces, in	URI - Job 24 Camp Cr	1	\$	
14510	1GCEX19TBXE105769	HUNDH-HUNDH	Chevrolet	Silverado .	1998	Vénede	Lasfa Resources, in	LRI - Job 24 Camp Cr	1	8	
14-01047	2GCEK18T511301047	OPERATING	Citavrolet	\$3\versuto	2001	Wheels	Lasfia Resources, tr	LPS - Job 24 Camp Cr	50	\$	
14-06120	2GCEK19T\$11298120	OPERATING	Chevrolet	Säverado	2001	Wheels	Lastie Resources, In	LRI - Job 27 Perions	60	8	
14536	1GCEK19R9WE217727	HTHOM-HTHOM	Chirvrolet	K1500	1998	Wheels	Lesis Resources, in	LRI - Job 32 Russel	1	8	
14478	1GCEK10RXWE215080	HTMOMTH-MONTH	Chevroisi	K1500	1258	Wheels	Loslio Pinsourons, In	LRI - Job 44 Cocket	1	8	
14908	1GCEK19TDGE167555	HTHOMHHOME	Chevrolet	Siveratio	1999	Wheels	Looke Resources, In	LIRI - Job 47 Stateen	1	3	
14503	1GNEK13R3XJ379457	HTHOMHTHOM	Chevrolet	Tahoe	1999	Wheats	Lastia Resources, to	LRf - Operations Man	1		
14482	1GNEX13R5C062529	HTHOMHTHOM	Chevrolet	Tahos	1999	Wheels	Leefe Resources, in	LRI - Operations Man	1	\$	
14-46536	1GNEK13711R146536	OPERATING	Chevrolet	Tehos	2001	Wheels	Horizon Natural Reso	URI - Operations Man	50		
14-37498	1GCEK19T22E137498	OPERATING	Chevy	Séverado LS	2002	Wheels	Leals Resources, in	MCC - Starfire	50	\$	
14502	1GCEKIBROWE217847	HINOMHUOM	Chevrolet	K1500	1998	Wheels	Mining Yachnologies,	MTI - Blue Stone Cos	1	3	
14467	1GCEK19R3WE217397	HUNORH-HUOMLH	Chevrolet	K1500	1998	VYnesis	Horizon Natural Reso	MTI - Blue Stone Cos	1	8	
14005	2GCFIC29ICIR1305729	HTMOMHTMOM	Chevrolet	K2500	1894	Wheels	Mining Technologies,	MTT - Idle HWM Equip	1		
14-28132	2GCEK19T121228132	DPERATING	Chevy	Silveracio LS	2002	Wheets	Mining Technologies,	MTI - Operations Man	60	8	
14-03508	IGCEKISTZYE303508	OPERATING	Chevrolet	Siverado	2000	Wheets	Mining Technologies,	MTI - Vigo Cost HWM	50	8	
14386	1GCEK19R0WR113457	HTHOMHTHOM	Chevroles	K1600	1998	Wheels	Whing Technologies,	MTI Shops	1	8	
14535	1GCEK19R5WE210225	HTMONTHIMON	Chevroist	K1500	1998	Wheels	Lesão Resources, in	PC - Knett County Su	1	\$	
14643	1GNEK13R4VJ432098	HT/YOM-HT/YOM	Chevrolet	Tahos	1087	Wheels	Pike County Cosl	PC - Minu - 682 UG	1	5	
14505	3GNE9C18F000G140174	HINONTH-MONTH	Chevrolet	Tehos	1090	Wheels	Piles County Cost	PC - Operations Mans	1	8	
148110	1GCEK19F000R136312	МОМТН-МОМТН	Chevrolet	K1500	1999	Wheels	Pites County Cost	PC - Operations Mans	1	3	
148150	1QCEK199209144503	HTMONHHTMON	Chevrolei	K1500	1949	Wheels	Sunny Ridge Mining C	PC - Operations Mone	1	1	
14511	1GCEK19R5WE216297	НТИОМ-НТИОМ	Chevrolei	K1500	1998	Wheels	Surrry Ridge Mining C	SR - Ide Equipment	1	4	
14203	1GNEK13K65,365371	MONTH-MONTH	Chevrolet	Tehne	1995	Wheats	Surery Ridge Mining C	SR - Idle Equipment	1	\$	
14788	1GCEK19R4WE189716	HTMONTHMON	Chevrolet	K1500	1995	Wheels	Sunny Ridge Mining C	SR - Idle Equipment	t	2	

SCHEDULE 3.3(a)(ill)

	UNIT CODE	SERIAL NUMBER	TYPE	MAKE	MODEL	YEAR	LESSOR	LESSEE	LOCATION	TERM	CURE	EAMOUNT
	2917	A713036668	CAPITAL	Cet	GP30K	7	Citicorp	Addington Mining	AEI Resources - Purc	36	8	3,495,90
	1192	3MR01214	OPERATING	Cat	DIOR	1997	CAT	HNR Mining, Inc.	17W Mining	12	- 5	5,382.00
	05-05057	2JR02009	OPERATING	Cat	325BL	1999	CAT	Addington Mining	17W Mining	60	\$	1,559.61
	6030	62,00499	OPERATING	Cat	1614	1998	CAT	HNR Mining, Inc.	AM - Albey Branch	12	\$	3,068,65
	3986	619000826	OPERATING	Cat	785B	1997	CAT	HNR Mining, Inc.	AM - Alley Branch	12		8,866,00
	6805	67,100375	OPERATING	Cet	16H	1967	CAT	HNR Mining, Inc.	Evergreen Mine	12		3,085,61
	8022	1M2P27BC-00A002140	OPERATING	Mack	RD688SX	2000	CAT	HNR Mining, Inc.	Evergreen Mine	12	8	1,652,04
	2291	2ZR01491	OPERATING	Cet	966F	1998	CAT	HNR Mining, Inc.	Evergreen Mine	12		3,399,53
	3978	SHICOOSS1	OPERATING	Cat	7858	1998	CAT	HNR Mining, Inc.	LRI - Job 05 Chavles	12		8,858,34
	3983	61-8000887	OPERATING	Cat	7858	1998	CAT	HNR Mining, Inc.	LRI - Job 05 Chayles	12	8	8,784,52
	3979	81-0CDC882	OPERATING	Cal	7858	1996	CAT	HNR Mining, Inc.	LRI - Job 05 Chayles	12	8	8,868,34
	2507	ZKR02062	OPERATING	Cat	950G	1998	CAT	HNR Minks, Inc.	LRJ - Job 95 Chavies	12	3	1,741,22
	1170	9TR00339	OPERATING	Cel	DUR	1968	CAT	HNR Minleg, Inc.	LRI - Job 07 Georges	12	\$	7,739,58
	1967	GHIXD0842	OPERATING	Cet	7858	1997	CAT	HIVR Mining, Inc.	LRI - Job 07 Georges	12	8	9,309,30
	3988	5HK00643	OPERATING	Cat	7858	1997	CAT	HNR Mining, Inc.	URI - Job 07 Georges	12		9,309,30
	2293	2ZR01485	OPERATING	Cet	966F	1998	CAT	Addington Mining	LRt - Job 96 Chavles	60	2	
	03-00688	7FN00646	OPERATING	Cet	D300E	1937	CAT	Addington Mining	LRI - Job 97 Georges	60	8	1,836.90
	16532	4LF3U594XXX3507684	OPERATING	Fontsine	LOWBOY	1996	CAT	HNR Mining, Inc.	LRI - Job 07 Georges	12		648.38
	22900	2ZR01518	OPERATING	Cet	DESF	1995	CAT	Addington Mining	LRI - Job 07 Georges	60	8	3,367.28
	2505	2107801578	OPERATING	Cat	880G	1997	CAT	HNR Mining, Inc.	LRI - Job C7 Georges	12	5	2,580.43
	3977	5H8000860	OPERATING	Cat	7858	1996	CAT	HNR Mining, Inc.	LRI - Job 07 Georges	12	8	5,868.34
	3980	61-0000883	OPERATING	Cel	7858	1998	CAT	HNR Mining, Inc.	LRI - Job 07 Georges	12	\$	8,784.62
	3981	61-84203884	OPERATING	Cet	7858	1996	CAT	HNR Mining, Inc.	LRI - Job D7 Georges	12	\$	8,784.62
	18531	4LF3450480C3507683	OPERATING	Fontaine	LOWBOY	1999	CAT	HNR Mining, Inc.	LRI - Job 24 Camp Cr	12	\$	848,38
	3873	1HW00087	OPERATING	Cat	785C	1999	CAT	Addington Mining	LRII - Job 24 Camp Cr	60	8	9,048,91
	1185	9TR00209	OPERATING	Cal	DISR	1997	CAT	HNR Mining, Inc.	LRI - Job 24 Cump Cr	12	8	7,820.93
	2250	7HR00152	OPERATING	Cat	992G	1998	CAT	HINR Miring, Inc.	LRI - Job 27 Peridne	12	8	8,637.85
	2509	2KR02198	OPERATING	Cet	980G	1998	CAT	HNR Mining, Inc.	LRI - Job 27 Perkins	12	\$	1,781,00
	2283	7HR00232	HTHOMHONTH	Cat	892G	1998	CAT	Addington Mining	LRI - Job 32 Russel	1	s	8,580.52
	1193	930R00177	OPERATING	Cat	DISRCD	1999	CAT	Addington Mining	LRI - Job 32 Russel	60	3	
	2506	2KR02061	OPERATING	Cal	9803	1998	CAT	HINR Mining, Inc.	LRI - Job 32 Russel	12	\$	1,741,22
	3978	6HK00679	OPERATING	Cat	785B	1998	CAT	HWR Mining, Inc.	LRI - Job 32 Russel	12	\$	8,868.34
	3982	641000686	OPERATING	Cat	7658	1998	CAT	HNR Mining, Inc.	LRI - Job 32 Russel	12	2	8,784.62
	8019	1M2P278C2WM002152	OPERATING	Mack	RDMMSX	1998	CAT	HNR Mining, Inc.	LRI - Job 32 Rossel	12	8	1,562,99
	2281	7HR00159	OPERATING	Cat	992G	1998	CAT	HMR Mining, inc.	LRI - Job 47 Stateon	12	8	6,377.76
	19034	25205986	OPERATING	Cat	3516 GEN SET	7	CAT	HNR Mining, Inc.	MTI - Idle HWM Equip	12	\$	3,089.06
	05-0376	6ZJ00376	OPERATING	Cat	16H	1997	CAT	HNR Mining, Inc.	PB - Kaytord/Notemin	12	8	1,253.00
	1172	STR00343	HTHOM-HTHOM	Cat	DITR	1998	CAT	Addington Mining	SR - Job 24 Dioks Kn	1	8	7,739.68
	6026	62,00509	HTMOM-HTMOM	Cat	16H	1908	CAT	Addington Mining	SR - Job 24 Dicks Kn	1	8	4,485,11
	1166	9TR00268	OPERATING	Cat	DITE	1997	CAT	HNR Mining, Inc.	SR - Job 24 Dicks Kn	12	\$	7.859.67
	02-06481	22R01434	OPERATING	Cat	@BBF	1098	CAT	HNR Wining, Inc.	SR - Job 24 Oicks Kn	12	\$	
	16530	4LF3U5946X3507682	OPERATING	Fontaine	LOWBOY	1999	CAT	HNR Mining, Inc.	SR - Job 24 Dides Kn	12	8	848.36
	2040	THROCZ76	OPERATING	Cat	992G	1908	CAT	HNR Mining, Inc.	SR - Job 24 Dictes Kn	12		8,521,24
	22840	7HR00262	OPERATING	Cat	992G	1998	CAT	Addington Mining	SR - Job 24 Dicks Kn	60	\$	8,525,12
	2504	2KR01675	OPERATING	Cat	960G	1997	CAT	HNR Mining, Inc.	. SR - Job 24 Dicks Kn	12	\$	1,639,30
1	8025	1M2P278C8XM002139	OPERATING	Mack	RD8885X	1999	CAT	HNR Mining, Inc.	SR - Job 24 Dicks Kn	12	8	
- 8	3410	2YR00733	OPERATING	Cat	D490E	1998	CAT	HNR Mining, Inc.	SR - Miscelaneous R	12	5	2,946,32
	34130	2YR01123	OPERATING	Cal	D400E	1996	CAT	Addington Mining	SR - Miscelaneous R	60	\$	3,021,80
	4306	7372	HTMON-HTMOM	R	DM45E	1998	CHicapital (GE)	Addington Mining	LRI - Job 05 Chevies	1	\$	3,029.82

SCHEDULE 3.3(a)(iii)

4307	7383	HTNONHHTNOM	1FL	DM45E	1998	Citicopital (GE)	Addington Mining	LRI - Job 07 Georges	60	2	3,029.82
4310	7387	HT/10M-HT/10M	UR.	DM45E	1996	Criticopital (GE)	Addington Mining	LR1 - Job 07 Georges	80	3	3,029,82
4309	7385	HTHOMHHOM	IR	DMASE	1998	CHCopital (GE)	Addington Mining	LRI - Job 24 Camp Cr	1	s	3,029.82
4308	7385	HTMON-HTMON	IR	DM45E	1998	Citicopital (GE)	Addington Mining	LRI - Job 47 Socien	1	\$	3,029.82
C3-T850	6HX00850	HT/MOM-HT/MOM	Cat	7858	1997	CAT	Princess Beverly Con	LRI - Job 32 Russel	1	\$	3,390.05
C2-L198	ADZ00198	OPERATING	Cet	835C	2000	CAT	Princess Severly Cos	LPG - Job 32 Russel	60	\$	10,963.88
03-7431	SHI000431	OPERATING	Cet	785B	1995	CAT	Princess Beverly Coa	PB - Keyford/Notomin	12	\$	-
03-7430	6HB000430	OFERATING	Cat	785B	1995	CAT	Princess Beverly Coa	SR - Joh 24 Dicks Kn	12	6	
03-T437	69-8000432	OPERATING	Cast	7858	1995	CAT	Princess Beverly Cos	SR - Job 24 Dida Kh	12	2	
14-24169	1GCEX19TH1E224169	OPERATING	Chevy	Silverado	2001	Enterprise	Addington Wining	17W Mining	48	\$	311,22
14854	1GNEK13283J784854	OPERATING	Chevrolet	Tahoe	2003	Enterprise	Mountain Costs Corps	AEI Resources - Gene	36	8	_
14832	1GCEK19T63Z32863Z	OPERATING	Chevrolet	1500	2003	Enterprise	HNR Mining, Inc.	AM - Alley Branch	36	\$	-
14-98004	2GCEK18TX11398004	OPERATING	Cherry	Silverado	2001	Enterprise	Addington Mining	AM - Alley Branch	48	8	311.22
14827	1GNEK13233J284827	OPERATING	Chevy	Tahoe LS	2003	Enterprise	HNR Mining, Inc.	AM - Operadores Mana	36	3	
14844	1GCEK19T13Z322844	OPERATING	Chevy	1500	2003	Enterprise	HNR Mining, Inc.	AM - Operations Mans	38	\$	
14-738	1GCGK13U63FZ26736	OPERATING	Chevrolet	Silverado	2003	Enterprise	Beech Coat	BCC - Sycamore Mine	35	8	
14-363	1GCEK19T83Z324363	OPERATING	Chevy	S1500	2003	Enterprise	CANNELTON INDUSTRIE	S CII - Stockton U/G	36	\$	-
14-25425	1FMZU34X8WUB25425	HTHOM-HTHOM	Ford	Explorer	1998	Enterprise	Zeigler Coel Holding	General & Administra	1	\$	70.25
14-06039	1GCJK33151F206059	OPERATING	Chevrolet	3500	2002	Enterprise	Mountaineer Coal Day	MDC - Triad	48	8	58.83
14-84038	2GCEK197721184038	OPERATING	Chevy	Stveredo	2002	Enterprise	Mountaineer Coal Doy	MDC - Tried	48	8	56.83
14-804	1GNEK13293J281804	OPERATING	CHEVROLET	Teho	2003	Enterprise	Old Ben Cost Company	Altho 11 LUG General	36	3	-
14717	1GNEK13Z83J282717	OPERATING	CHEVROLET	Teho	2003	Enterprise	Old Ben Cost Company	Mine 11 U/G General	36	\$	
14171	1GCEK19T23Z325171	OPERATING	Chevrolet	K1530	2003	Enterprise	Mid-Vol Leasing, Inc	MV - South Fork Mine	36	8	-
14184	1GCH0024U03E319184	OPERATING	Chevrolet	82500	2003	Enterprise	Mid-Vol Leasing, Inc	MV - South Fark Mine	24	\$	
14799	1GCGK29RZWE170480	HTHOMHTHOM	Chevrolet	HC2:500	1998	Enterprise	17 West Mining	SR - Job 24 Dides Kn	48	8	2.28
14150	1GCEX19T03Z324150	OPERATING	Chevrolet	1500	2003	Enterprise	HNR Mining, Inc.	SR - Job 24 Dicks Kn	36	5	
14259	1GCEX19T3Z322250	OPERATING	Chevrolet	Silveredo	2003	Enterprise	17 West Mining	SR - Job 24 Dicks Kn	36	8	
14860	1GCEK18T53Z321880	OPERATING	Chevroist	K1500	2003	Enterprise	17 West Mining	SR - Job 24 Dicks Ke	36	2	
04-7708	7708	OPERATING	IR	DM45E	2002	Ingersol-Rand Compa		Evergreen Mine	60		4,336.00
M8014	1M2P186C1JW001034	OPERATING	Mack	RD6865X	1968	MINI	Addington Mining	LRI - Job 95 Churles	36	.5	
148016	1M2P274C8RM001181	OPERATING	Mack	RD8905X	1994	MOM	Addington Mining	LRI - Job 24 Camp Cr	36	\$	
M8317	01XXX00888	OPERATING	Cat	769	7	MM	Addington Mining	LRI - Job 32 Russed	36		
M2882	TMJ00634	OPERATING	Cat	992D	1998	MINU	Addington Mining	LRI - Job 47 Sbdeen	36	\$	
14-65370	1GNEK13T71J155370	OPERATING	Chevy	Tahos LS	2001	Enterprise	West Virginia-Indian	General & Administra	48	8	60,67
14035	1GNEK13Z83J285035	OPERATING	Chavy	Tahoe LS	2003	Enterprise	West Virginia-Indian	General & Administra	36	5	-
14-578	1GCHQ4UX3E319578	OPERATING	Chevrolet	5250	2003	Enterprise	Kindill Mining, Inc.	Kindil 2	24	\$	-
14-32595	1GNEK13Z32J232595	OPERATING	Chevroiel	Tahoe	2002	Emarprise	Mountain Cools Corpo	LRI - Job 05 Chavles	48	\$	221.34
14084	1GCHR24U73E318084	OPERATING	Chevroiet	2500HD	2003	Enterprise	Mountain Coels Corpe	LRI - Job 32 Russel	24	8	
14-02547	2GCEK19T221192547	OPERATING	Chevy	Silverado LS	2002	Enterprise		MCC - Startin	48	2	221,35
14169	1GCH9Q4LDQE318169	OPERATING	Chevrolet	2500HD	2003	Enterprise	Mountein Costs Corpo	MCC - Starfire	24	5	
14273	1GCHKZ4U53E318273	OPERATING	Chewolet	2500HD	2003	Enterprise		MCC - Starfire	24		
14689	IGCHICZ4UX3E315689	OPERATING	Chevrolet	2500HD	2003	Enterprise	Mountain Costs Corpu	MCC - Starfire	24	3	
14720	1GNEK13Z13J285720	OPERATING	Chevrolet	Tahoe	2003	Enterprise	Mountain Coals Corpo	MCC - Starfire	36	5	
14919	1GCHIC4U13E315919	OPERATING	Chevrolet	2500HD	2003	Enterprise	Mountain Costs Corpo	MCC - Starting	24	\$	-
14-453	1GCHR24U73E318453	OPERATING	Chevy	Silverado	2003	Enterprise		MCC - Starfire	24	2	-
14-61977	1GTEK19172E181977	OPERATING	Chevy	K1800	2002	Marcus	Kindil Mining, Inc.	Kindil 2	48	5	228,08
M14629	1GCFK29/GREZ39028	HTMONHHTMOM	Chevy	K2500	1994	MIM	Addington Mining	SR - Job 24 Diales Kn	1	8	•
M4993	3848	HTMOM-HTMOM	IR	DML45X1_1050	1996	MME		SR - Job 24 Dicks Kn	1	8	
M01-152	AAF00152	OPERATING	Cat	D11R	2001	MM	CC Coal	SR - Job 24 Dicks Kn	60	8	
M04-7689	7885	OPERATING	(R	DM48	2001			SR - Job 24 Dicks Kn	60		-
M03-0145	9ZC00146	OPERATING	Carl	789	1988	MMI Service	Mountain Costs Corpo	Evergreen Mine	60	8	

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SCHEDULE 3.3(a)(lii)

M03-0477	92000477	OPERATING	Cat	782	1990	MMI Service	Mountain Coats Corps	Evergreen Mine	60	2	
M02-337	ADZ00337	OPERATING	Cat	992G	2001	MMI Service	Mountain Costs Corpo	LRI - Job 32 Russel	60	8	
M01-467	3KR00467	OPERATING	Cat	DIOR	1998	MMI Service	Mountain Coals Corpo	LRI - Job 32 Russel	60	8	•
42630	7463	OPERATING	い	DML45	1998	Provident	HNR Mining, Inc.	LRI - Idle Equipment	60	\$	
4262	7472	OPERATING	rrt.	DML45	1998	Provident	HNR Mining, Inc.	LRI - Idle Equipment	60	8	
4261	7409	OPERATING	IR .	DM45E	1999	Provident	HNR Mining, Inc.	SR - Job 10	60	\$	
41-835	NLE07835	HTHOMHHOM	Canon	IR500	7	Superior Office Serv	AEI Holding Company	AEI Resources - Gene	12	\$	510.93
41-174	NLE08174	HTMOMTHMOM	Carron	MRISOQ	7	Superior Office Serv	AEI Hotting Company	AEI Resources - Gene	12	\$	531.09
41-017	NOK79017	HTMOMTH-MOM	Canon	NP6056	?	Superior Office Serv	AEI Holding Company	AEI Resources - Gene	12	8	237.38
14-85265	2GCEX19T121185285	OPERATING	Chevy	Silverado LS	2002	Wheely	HNR Mining, Inc.	AM - Alley Branch	50		-
14-93579	1GNEK13RBXJ493579	HTHOM-HTHOM	Chevrolet	Tehon	1989	Wheele	HNR Mining, Inc.	AM - Engineering/Exp	1	2	
14-58442	1GCEX19T91E158442	OPERATING	Chevrolet	Silverado	2001	Wheels	17 West Mining	AM - Job #17 South	50	\$	
14461	1GNEK13R7XJ326986	MONTH-MONTH	Chevrolet	Tahos	1899	Wheels	HNR Mining, Inc.	AM - Operations Mans	1		
14-80115	2GCEK19TB11360115	OPERATING	Chevrolet	Silverado LS	2001	Wheels	HNR Mining, Inc.	AM - Operations Mena	50	5	
14-02254	1GNEK13/R3XJ502254	OPERATING	Chevrolet	Tahoe	1998	Wheels	HMR Mining, Inc.	AM - Operations Maria	50	\$	
14-58163	1GNEK13T51R156163	OPERATING	Chevrolet	Tehat	2001	Wheels	HNR Mining, Inc.	AM - Quality Control	50	\$	
14-05240	1GCHKZ9UXZZ105240	OPERATING	Chevrolet	2500	2002	Wheels	CANNELTON INDUSTRIE	S Cit - Lady Durin Plan	50		
14840	1GCEK19RXVEZ34857	MONTH-MONTH	Chevrolel	K1500	1997	Wheels	HNR Mining, Inc.	Evergroen Mine	1	8	
14474	1GCEX19R6WEZ11609	MONTH-MONTH	Chavrolet	K1500	1998	Wheels	HNR Mining, Inc.	Evergreen Mine	1		
14-39658	1GCEX18781E138658	DPERATING	Chevrolet	Silverado	2001	Wheels	Mid-Vol Leasing, Inc	Evergreen Mine	50		-
14-25459	1GNER(13T\$1J125458	OPERATING	Chevrolet	Tahoe	2001	Wheels	West Virginia-Indian	General & Administra	50	2	
14-00799	1GNEK13T11R100799	OPERATING	Chevrolet	Tahos	2901	Wheels	West Virginia-Indian	General & Administra	50		
14-63136	20CEK19T12163138	OPERATING	Chevy	Silverado LS	2002	Wheels	Mountain Costs Corpo	LRI - Job 27 Perkins	50	5	
14-72271	1GNEK13T01R172271	OPERATING	Chevrolet	Tahoe	2001	Wheels	HNR Mining, Inc.	LRI - Job 40 Enginee	50		
14-50694	1GNEK13T81J150694	OPERATING	Chevrolet	Tehon	2001	Wheels	CC Coel	LRI - Job 42 Operadi	50		
14878	1GCEK19RDCR133895 -	HTHOMHTHOM	Chary	K1500	1999	Wheels	Mosmisin Costs Corpe	LRI - Job 44 Cockrei	1		
14-38282	1GCEX18T11E138282	OPERATING	Chevrolet	Siverado LS	2001	Wheels	Mountain Coals Corpo	MCC - Starfire	50		-
14-43164	1GNEK13282J143184	OPERATING	Chavrolet	Tehoe LS	2002	Wheels	Mountain Coals Corpo	MCC - Starting	50	3	
14-44460	1GCEK19771E144460	OPERATING	Chevrolet	Silverado	7001	Wheels	Mountain Dask Corps	MCC - Starfee	50		
14-61609	2GCEX18T421261608	OPERATING	Chew	Saverado	2002	Wheels	Mountein Costs Corps	MCG - Starfre	50		-
14-02521	2GCEK19T111302521	OPERATING	Cheverelet	Shyurado	2001	Wheels		MDC - Triad	50		
14-92389	1GCEK19731E192389	OPERATING	Chevrolet	Silverado	2001	Wheels		MDG - Tried	50	5	
14-27677	1GCEK19781Z2Z7677	OPERATING	Chevrolet	Silverado	2001	Wheele		MOC - Triad	50		
14-55550	1GCEK19701E255558	OPERATING	Charrolet	Silverado	2001	Wheels		MDC - Tug Valley Pla	50		
14-50418	1GCEK19T9ZZZ50418	OPERATING	CHEVROLEY	1500 LB EXT	2002	Wheels		Minu 11 U/G General	50		
14-19066	2GCEK19T922230418	OPERATING	Chevrolet	Silverado	2001	Wheele		P8 - Keylord/Notomin	50	•	
14-80505	1GNEK13T61R180505	OPERATING	Chevrolet	Tahos	2001	Wheels		PC - Engineering & E	50	:	
14675		MONTH-MONTH	Chevrolet	Silverado		Wheels			1	:	
	2GCEK1875X1148763				1999			SR - Job 10	7	:	
148080	2GCEK19TZX1141430	MONTH-MONTH	Chevrolet	58verede	1999	Wheels		SR - Job 10		8	•
14397	1GCEK19R1WE125530	MONTH-MONTH	Chevrolet	K1500	1998	Wheek		SR - Job 10		-8	•
14-07904	IGCEK1STSYE307904	OPERATING	Chavrolet	Silveredo	2000	Wheels		SR - Job 24 Dicks Kn	50	8	•
14479	1GCEK19R9WE212155	HTHOMHTHOM	Chevrolet	K1500	1996	Wheels		SR - Ken Car Leadout	1	2	•
14395	1GNEK13FUOVJ372096	HTMOM-HTMOM	Chevrolet	Tahos	1996	Wheels		SR - Operations Mans.	1	8	
14661	1GCEX19R6WE212096	HTHOM-HTHOM	Chevrolet	K1500	1998	Wheeks		5R - Operations Mana	1	8	•
14684	1GCE)(19R2XR133677	HTMOMHITMOM	Chevrolet	K1500	1999	Wheels		SR - Operations Mans	1	5	
14-59878	1GCEK19T71E159678	OPERATING	Chevrolet	Silverado	2001	Wheels	HNR Mining, Inc.	SR - Operations Mens	50	\$	•
14-85259	1GCEK19T91E165259	OPERATING	Chevrolet	Sivierada	2001	Wheels	17 West Mining	SR - Operations Mana	50	2	
						Total		Out a Character turner		5	275.851.31

SCHEDULE 3.3(a)(iii)

TAXES ASSOCIATED WITH LEASES

COMPANY	LEASE	D
AYRSHIRE LAND COMPANY TURRIS COAL COMPANY FAIRVIEW LAND COMPANY	\$ \$ \$:
OLD BEN COAL COMPANY PIKE COUNTY COAL COMPANY	\$:
ACECO CC COAL COMPANY EAST KENTUCKY ENERGY CORP.	\$ \$ \$	- - 33,271.56
IKERD-BANDY MCCOY-ELKHORN LESLIE RESOURCES	\$	25,322.15
LESLIE RESOURCES	\$	20,022.10
TOTAL	\$	58,593.71
OTHER CURE COST	S	

Saller	Vendor	Contract Type	Amount
Horizon NR LLC	Millman USA	Consulting	120,790.00
Horizon NR LLC	Kentucky Coal Assoc.	Membership	4,777.77
JZ Trucking Inc.	Lesile Resources Inc,	Trucking	57,850.00
Turris Coal Company	Pitney Bowas	Office Equipment	722.00
Turris Coal Company	Illinois Coal Assoc.	Membership	174.47

CURE SCHEDULES TO OLDCOAL, LLC ASSET PURCHASE AGREEMENT AND A.T. MASSEY COAL COMPANY, INC. ASSET PURCHASE AGREEMENT

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			WATER, MANTY & MARKED, (TERRITORY)	**	\$764.e2	879
			FEBRUR, NO. BILL & JOSEPH PLENSON	20.00	\$710.49	
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			AND THOSE, ASSEMBLY PROPERTY.	90.00 20.00 20.00	\$ 100.00 \$730.00	87
			AMTHON, MARKE (1616FM)	34.34		54 64 67 64
			ANTICE SUBSCIAL YORK HOMES	90.0E	\$5796.000 00000.000	21
			MOLETTINE PARLEY DELEGATE (MINIST)	11.00 11.00 11.00	\$776.00 \$755.66 \$1,646.36	81,4
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			STACY, AD-OR SETTEMENT, ENGINEERS	10.00	Stend.pd	\$4.
			Article of Patrick STRAT Lambian	90.00 90.00	(774.60	
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### CAMP PATE			61/C-44-49/17 dates	DAME MONTH (MINGL)	METAL PROSPELAND	\$1,307.00	11387.1
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Marie				prompt, protectable discountry	10 m	GPM AF	236
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1004	ZJPDOMBO	DPERATHE	ð	LINE	1987	2	HARM MANAGE BYE.	SA - Mediatorian B R	17 TA 23	9	132404	1,451,12	
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101	ICCECT9RBVE125609	MONTH TOWN	Chevroles	X 1500	1001	W/Models	Mountain Costs Corps	ACC: Sarbs	81218	-		•	
14496	SCADT STANTWISE 13773	MUNITHMONTH	Chevroles	S 90 Blance	1	Whatel	CC Con	PE - Kayford-Alabaman	SILBY	•			
14473	SCEEK NEWWEST 1218	MENTHACHTH	Overtiled	M1500	1 100	Wheels	FRES SAMPTO, Pric.	TTW SANNED	RIZIS	-		٠	
14478	ICCIEK 18NewE220330	MUNICHARDINA	Ourmake	K1500	1900	Wheels	Maryandrana Developme	MOC-TAN	20.00	-			
14500	20CDK19494Y1274343	MONTHADATH	Onemplet	K1800	1808	Wheels	Princess Severly Cas	PB - Kayfor@Nesports	813.73	-		•	
14601	HCMENTONANCISE TO 13	MONTHAMONTH	Oen	Tahos	1900	Wheele	Marcadana Developme	ACC - Operations Man	\$17.47	-			
14508	1 ECENTRALIVES 11000	MONTHARDMEN	Opportunity	MC1308	ï	Wheels	Principle Beneaty Cos	PB - Kayford-Anton-dn	872.81	-		•	
14841	VCCEN1SHWYRZ38189	MUNICIPAL MONTHS	Cherryte	K1900	Ē	Wheele	HOST Lifebry, Inc.	AM - Dress Branch	812.43				
14442	HOLANTWECHSSES	MONTHUDINE	F.	2450	1000	Withouth	2000	ACI Prespurities - Prest	843.10	-			
14784	TOCERCIONALWEISKIES	MONTH WORK	Owwrater	K 1 800	100	Witnesda	Mambulana Developma	P.C. Emphametry & E.	84,78	•			
14782	SCCON BRIDATION STATES	MONTH MONTH	Chevroles	K1200	į	Wheels	HAPP SANDER, INC.	AM - Alley Beanth	411				
14787	ACCESTION INC. 180184	MONTHADITH	Cheurske	3 hearth	1	Wheele	Wrest Virginia-Indian	AEJ Researces - Gerts	616.62	-			
1 4801.0	ICCCCC1 BM1 ART 3-481.5	MONTH-MONTH	Character	K1900	-	Wheeler	17 West Merry	17W Mering	87641	-			
14004	3G16PC16PETG116EG7	HUNCHY-HUNCH	Departular	Sadardon,	Ĭ	Wheeles	HOPE Minings from	AM - Alby Branch	818.71	-			
16520	AUTHORITISETT 30	MCMTH-MONTH	Fordering	7	1700	כעו	Addington Mining	ACC - Starfing	\$1,867,BB			848.38	
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04-2258	LPEXETTORNA BROAT	HTHOMHTHON.	Feed	F800	1	Enterprise	ACTUAL LANGE, INC.	House 2	811.80			4.90	
CHC2:40	PTHF287WPLAN1401	NUMBER OF STREET	For	7240	100	Enterprise	HONELS LATING, INC.	FD-sdft 2	811,00	-		4.80	
1005-10	HENESTHERMANNESSY	MONTH MONTH	Ferni	1623	-	Mercan	Old Best Cast Conpany	Control Chenning Pits	54.00			221	
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01-141114	LIPROTESS.	MANAGEMENT	J	DITE	1908	7	Marrowbons Devasorne	MDC - Tred	8 12,000,40	-			
D8-22108	TPGEWBOURGWALT 108	MUNICHERONITH	Ford	Cycleose	1	Enterprise	Rydell Merry, Inc.	SONGE 2	811.00	•		4.99	
DB-22-40	INTERWEZAGNAVA17108	ACMONTH-MONTH	Ford	LATINDOG PAED	1002	Eviception .	Attacké labring, Inc.	Khudel 2	611.80	-		4.89	
2122-90	2PCLF47CaPCA38560	MONTHACKTH	I	f sures	1	Entherpolise	Kindil Maring, Inc.	FUNDING 2	811.00	-		4.99	
20 - 27 LTS	1PDN-F00n18WAG7888	MONTHAONTH	Tage of the same o	PROD MED	Į.	Criteryndee	Khelil Liberg, Inc.	10mgs 2	\$4.00	•		4.99	
08-2213H	1FDVWEDATHWA25808	MONTH-MONTH	Į	LATRICOS RED	1961	Entherpotes	KING Messey, Pro.	X2NGM 2	\$11.00	•		4.98	
SE-22136	1FDYWREAL VANCETZ	HENCHWENCHEN PROPERTY	Į	LACTROSS	900	Contempotes	Kindle Mining, Inc.	Kindel I	\$11.00	•		4.80	
20 AZT 20	1FD9F78,DGPVA26416	MONTHADATH	1	FTUD WHETE	9	Collegation	North Mary, the	Died 2	611.00	-		2.3	
東に行動	1 FDASTBROOK WAZET 1 1	MENDAH MONTH	E	100		Criterpolitee	Parelli Liberty, two	Credit 2	811.00	,		200	
08-22148	1 FDKTDLEEVA 18478	MONTH MONTH	Ę	LAMBOOD RIED	1	-	Word Meda, Inc.	Abedi 1	80788	-		4.90	
	1 FDXF7 DKM_VAMEZS	MONTHMONTH	- Land	200	1980	Collectories	Kingli Modry, trc.	Month 2	811.00	-		4.80	
27172	1PDMTTD-0CVA46008	HOWELENDAY	Fad	200	Ţ	Collectories	ICHAEL ABRING, INC.	ACADEL I Prop Plant	1970	•		4.89	
10122-101	1 FDYW82AGLAVA21609	MONTH MONTH	For	DOM:	1901	Solderpetore	10ndf Many, Inc.	IChells 2	811.00	-			
08-21AA	1 PDGCTDUREVA18478	OPERATING	F	F7000	1	Sylphysis	HONER MENTS, I'm.	IOndil 2	1100	8		66.9	
145.41	1425 19-CZTMCCZ391	MONTHADATH	Mest	-	200	Johnson Brothers, ULC	Total Marky, Inc.	MOC-TAM	\$2,600.00	_			
780-80	THEEN, TEXAS, CON- 1864	HUNOMUNION	Kerner'th	Variand	6	ladacys Brethers, LLC	Mauritals Cools Carps	MCD-Starfes	61,250.00	-			
C8-802	1 HODE TEXTS COMPRES	MONTHMONTH	Karmarti	Vandqua	5000	tolago Brethers, LLC	Maximist Casts Carps	MCC. Startes	83,280,06	-			
200-000	INSCR. PEXAS. ISBABBB	MONTHARDWIN	Kennerth	Vertexa	8	letton Bruthars, LLC	Mountain Corn Corps	MCC - Starfing	\$3.2mg.00	-			
14-60202	1046X13TTV/11EDG2	DMENATING	Cherry	Tahee	8	- Lance	Morrambers Davedorns	MDC - Operations Man	STROJA	8	277204		
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EXHIBIT B HORIZON NATURAL RESOURCES COMPANY

DISPUTED CURE AMOUNTS

LESSOR	ASSERTED CURE AMOUNT	SCHEDULED CURE AMOUNT (1)	DISPUTED PORTION OF CURE AMOUNT
Huntington Realty Corporation	\$37,806.53	\$9,810.23	
Menard Electric Cooperative	\$194,844.75	\$0.00	\$194,844.7
Menard Electric Cooperative	\$134,699.49	\$0.00	\$134,699 49
Kentucky River Properties	\$4,414,394 69	\$614,476.56	\$3,799,918.13
Mountain Properties, Inc. #58-119	\$106,218.00	\$86,164.95	\$20,053.05
Mountain Properties, Inc. #300001	\$35,405.04	\$33,131.30	\$2,273.74
Citicapital Commercial Corporation – Blasthole Drills #'s 7372, 7383, 7385, 7386, 7387	\$1,257,326 74	\$15,149.10	\$1,242,177.64
Citicapital Commercial Corporation – Blasthole Drills #'s 7393, 7394	\$208,605.90	\$6,059.62	\$202,546.28
Citicapital Commercial Corporation - Off Highway Truck # 6HK00943	\$716,494.40	\$9,742.20	\$706,752.20
First Century Bank, NA, Trustee	\$3,330,622.42	\$65,169.01	\$3,265,453.41
Big Sandy Company, LP – Lease #M2.364	\$69,508.75	\$0.00	\$69,508.75
Big Sandy Company, LP – Lease #M2.465; (LA-098-483)	\$54,387.21	\$48,342.07	\$6,045.14
Big Sandy Company, LP - Lease #M2.465	\$16,750.17	\$0,00	\$16,750.17
Boone East Development Co	\$923,945.32	\$79,621 54	\$844,323.78
Kentucky Berwind Land Co.	\$10,000.00	\$10,000.00	UNKNOWN

HORIZON NATURAL RESOURCES COMPANY

DISPUTED CURE AMOUNTS

LESSOR	ASSERTED CURE	SCHEDULED CURE	DISPUTED PORTION OF
	AMOUNT	AMOUNT (1)	CURE AMOUNT
Edwin Vinson	\$59,973.58	\$10,386.68	\$49,586.90
Curtis Pepper	UNKNOWN	\$12,843.47	UNKNOWN
Caterpillar Financial Services Corporation (155 leases)	UNKNOWN	UNKNOWN	UNKNOWN
MMI Entities	Unknown taxes and expenses accrued and accruing	\$0.00	UNKNOWN
Hoosier Rural Electric Cooperative	Not stated	\$0.00	UNKNOWN
TOTAL	\$11,570,982.99	\$1,000,896.73	\$10,582,929.73

Notes:

- (1) With the exception of any leases identified as "capital leases" on the cure schedules to the Agreements, to the extent that there is any inconsistency between the scheduled cure amounts listed on this exhibit and the cure amounts listed in the schedules to the Agreements, the schedules to the Agreements shall control. As to the leases identified as "capital leases" on the cure schedules to the Agreements, including both those that are identified in this exhibit and those that are not, the Debtors and the Purchasers are continuing to work to identify the applicable cure and/or unpaid purchase price for the property subject to the "capital leases" and reserve their rights with respect thereto.
- (2) The parties agreed to escrow the sum of \$2.0 million and to work to resolve any disputed cure amounts.
- (3) The cure amount asserted by Kentucky Berwind Land Co. is \$10,000 plus an unspecified amount of interest.
- (4) Caterpillar has not provided a number for its cure amount at this time. The parties intend to work together to resolve any disputed cure amounts.

CIN1432662.7

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EXHIBIT C

NONE

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SPECIAL WARRANTY SURFACE DEED ("Kentucky Main Tract Properties" and "Rouge Steel Properties")

Clerk: Upon recordation this instrument should be returned to: E. Forrest Jones, Jr. (WV State Bar No. 1916) Matthew W. Gallimore (WV State Bar No. 12986) P.O. Box 1989

Charleston, WV 25327 Phone: (304) 343-9466

THIS SPECIAL WARRANTY SURFACE DEED ("Deed") is made and entered into effective as of the //w day of December, 2016, by and between POCAHONTAS DEVELOPMENT CORPORATION, a Kentucky corporation, whose mailing address is 800 Princeton Avenue, P.O. Box 1517, Bluefield, West Virginia 24701 ("Grantor"); and POCAHONTAS SURFACE INTERESTS, INC., a Virginia corporation, whose mailing address is Three Commercial Place, Norfolk, Virginia 23510 ("Grantee"), which is the address in which the current year property tax may be sent.

RECITALS:

Grantor owns certain land located in the State of Kentucky, located in Floyd County-approximately 1,291.74 acres; Johnson County-approximately 1,247.98 acres; Martin County-approximately 47,433.72 acres; and Pike County-approximately 9,670.25 acres (collectively the "Property"). The Property is more particularly described on Schedule A attached hereto and incorporated herein by reference. The next immediate source or sources of title by which the Grantor obtained title to the Property is also more particularly set forth on Schedule A. Grantor desires to convey to Grantee, and Grantee desires to acquire from Grantor, all right, title and interest in and to the surface vested in Grantor within Floyd, Johnson, Martin and Pike Counties, Kentucky, including without limitation, the boundaries of the Property and all improvements thereon and appurtenances thereunto belonging, (the "Surface Estate"), subject to certain exceptions, reservations, restrictions and agreements as hereinafter described. Subject to said exceptions, reservations, restrictions and agreements, the Surface Estate includes the timber estate that is a part of the Surface Estate if such timber estate is vested in Grantor as of the date of this Deed.

WITNESSETH:

That for and in consideration of the initial issuance of Grantee's corporate stock to Grantor simultaneously with execution of this deed and the payment by Grantee of all applicable recording fees, transfer taxes and other costs related to the conveyance made hereby, the receipt and sufficiency of all of which are hereby acknowledged, Grantor does hereby GRANT and CONVEY

unto Grantee, all of Grantor's right, title and interest in and to the Surface Estate. The value of the property conveyed is \$8,729,480.00.

Subject to the exceptions, reservations, restrictions, agreements, conditions and covenants set forth herein below, Grantor will WARRANT SPECIALLY its interest in the Surface Estate...

This conveyance is made EXPRESSLY SUBJECT to the EXCEPTIONS, RESERVATIONS, RESTRICTIONS, AGREEMENTS, CONDITIONS and COVENANTS set forth in this Deed, which shall be covenants and encumbrances running with the Surface Estate and shall inure to the benefit of and be binding upon the parties hereto, their respective lessees, designees, grantees, successors and assigns and any person or entity claiming by, through or under it or them pursuant to rights granted before or after the date hereof.

- 1. Grantor makes no warranties of any nature or kind not expressly set forth in this Deed. The conveyance made hereby is a conveyance of the Surface Estate in gross and not by acre and is subject to an accurate survey of the Property. Grantor makes no warranties as to the amount of acreage hereby conveyed or the location of any of the boundaries of the Surface Estate.
- 2. Grantor EXPRESSLY EXCEPTS from the Surface Estate hereby conveyed all prior outconveyances and grants of other interests, including but not in limitation, all easements, conditions, reservations, leases, licenses, and restrictions, in to, upon or applicable to the Property made by Grantor or by predecessors in title to Grantor to third parties, whether unrecorded or of record.
- Grantor EXPRESSLY EXCEPTS from the Surface Estate hereby conveyed and RESERVES and RETAINS unto Grantor all interests, rights and privileges in and to the Property (except the Surface Estate), including without limitation all of the coal, stone, sand, oil, gas and other minerals and mineral products not expressly conveyed hereby or which has been conveyed by Grantor, or its predecessors in title, to a third party in a prior recorded or unrecorded deed or other instrument (the "Reserved Mineral Estate"), as well as the exclusive right to grant any and all easements, licenses and rights-of-way for roads, bridges, pipelines, railroads (including lines and track of all kinds and types and the infrastructure and facilities therefore), electric, telephone or other lines, together with any all forms of communication facilities including without limitation, cellular communication towers and facilities, and to grant permits and licenses for any other uses of the Surface Estate of the Property necessary or convenient for Grantor or its lessees, designees, grantees, successors and assigns to develop, produce, use, operate upon or otherwise utilize the Reserved Mineral Estate, in particular the Coal Estate (as hereinafter defined), all of which rights and privileges are hereby excepted and reserved by the Grantor as a part of the Reserved Mineral Estate Coal and substances mixed with coal and extraction rights with respect thereto (collectively the "Coal Estate"), which is a part of the Reserved Mineral Estate, and, the Reserved Mineral Estate, in particular the Coal Estate, shall be the dominant estate within the Property, superior to the Surface Estate hereby conveyed. Accordingly, the use of the Surface Estate shall not interfere or conflict with the development, production, use, operation or other utilization of the Reserved

Mineral Estate, in particular the Coal Estate, it being expressly understood and agreed by and between the parties hereto that the development, production, use, operation or other utilization of the Reserved Mineral Estate, in particular the Coal Estate, may be by any method, technology, process, practice or means now known or hereafter invented or developed. Furthermore, Grantee acknowledges that the Surface Estate is subservient to the Coal Estate and that nothing herein or otherwise shall be construed as requiring Grantor to terminate, suspend, idle, discontinue, continue or refrain from initiating operations for any purpose, which Grantor shall have the absolute right to do without any liability to Grantee.

- 4. Grantor hereby EXPRESSLY EXCEPTS from the Surface Estate hereby conveyed and RESERVES unto Grantor the right to access, disturb, excavate, develop, subside and use the Property and the Surface Estate, or any part thereof, for any purpose in connection with the development, production, use, operation or other utilization of the Reserved Mineral Estate, in particular the Coal Estate, including, without any limitation, the following:
- (i) the right to mine, produce and remove all of the coal and other minerals (including, without limitation, oil, gas, coalbed methane and coal and any other rock or substance), waters, metals and other substances, whether solid, liquid or gaseous, within the Property by any means or methods, including, but not limited to, all forms of surface mining (including without limitation conventional surface mining, contour mining, auger mining, highwall mining and mountaintop removal) and all forms of deep mining (including without limitation conventional deep mining, longwall mining and secondary or complete recovery of minerals), all forms of drilling (including vertical and horizontal), and any other method of mining, drilling, leaching, processing or development whether now known or hereafter invented or developed;
- (ii) the right to explore the Property by any means, including core drilling, seismic surveys or other means;
- (iii) the right to excavate and remove the surface and overburden and to create fills and deposits for spoil and other materials in connection with any form of mining or drilling or other development and in connection therewith; to disturb water, plants, insects and animals; and to raise or lower the elevation of the land;
- (iv) the right to remove subjacent and lateral support for overlying and adjoining strata or surface or improvements or structures therein or thereon, and, to raise or lower the elevation of the land in connection therewith;
- (v) the right to construct, install, use and maintain portals, ventilation facilities and equipment, air and pump holes, wells (extraction or injection), pumps, offices, preparation plants, refuse areas, loading facilities, tipples, weighing and measuring facilities, storage areas, railroads (including lines and track of all kinds and types and the infrastructure and facilities therefore),, roads (including, but not limited to, haulage or access roads or other transportation or facilities), conveyors, ponds, pipelines and any and all facilities related to the foregoing or which

may be necessary or convenient in connection therewith, together with all necessary or convenient rights-of-way on and through the land and Surface Estate;

- (vi) the right to construct, install, use and maintain pipelines, compressors, wells, injection wells, storage wells, tanks, pumps, separators, meters, buildings, offices and any and all other equipment and facilities for the removal or injection of any substance, whether solid, gaseous or liquid, from any source, including lands not conveyed hereby, from or into the subsurface of the Property, it being understood that Grantor's ownership of the Reserved Mineral Estate includes the right to remove minerals and substances in any form, as well as the right to inject, deposit, sequester, use for production purposes or store, both permanently and temporarily, and substance in any form, whether solid, gaseous or liquid, from any source, into any subsurface pore, space or property, including underground mine voids, including, without limitation, water produced fluids from drilling, brine, ash or carbon dioxide, whether any such substances are from the Property or any other property source;
- (vii) the right to construct, install, use and maintain electric lines, telephone or telecommunication lines and towers, cable lines, gas lines, water lines, sewer lines and any other utility line or pipe incidental to development of the Reserved Mineral Estate, in particular the Coal Estate, or any building, structure or facility used or installed in connection with such development;
- (viii) the right to pump and discharge water and other substances in, on or under the Surface Estate from any operations relating to the Reserved Mineral Estate or from other lands, and, to construct, maintain and use wells, ponds, impoundments, detention facilities, drains, holding tanks, treatment facilities or other facilities in connection therewith;
- (ix) the right to transport or haul on, through and under the Property, including the Surface Estate, any men, equipment, coal or other mineral, water or other product or substance, whether or not produced from or to be used on the Property, all without toll or charge, including, but not limited to, no payment of any wheelage or other fee;
- (x) the right to reclaim, revegetate and mitigate the effect of any development, production, use, operation or other utilization of the Reserved Mineral Estate on the Property, the Surface Estate or any water or waterway or water course; to create habitats for fish and wildlife; to stabilize such waterway or water course embankment; and to impose on the Surface Estate a conservation easement or a restrictive covenant therefore; and
- (xi) the right to take any action on or with respect to the Surface Estate which is required by any governmental authority in connection with the development, production, use, operation or other utilization of the Reserved Mineral Estate, in particular the Coal Estate, or the reclamation thereof, which may be allowed or required by any permit, law or regulation or which may be necessary or convenient to obtain the release of any permit or bond associated therewith.

The foregoing rights reserved to Grantor for the use of the Surface Estate, the surface thereof and the facilities thereon, by Grantor, its lessees, designees, grantees, successors and assigns, for the development, production, use, operation or other utilization of the Reserved Mineral Estate, in particular the Coal Estate, as well as any other lands or places, shall include, but not be limited to, mining, removing, processing, transportation, loading, injecting and storing of coal and other minerals, waters and substances in any form (gaseous, liquid or solid) from the Property or other lands and the right to deposit any refuse, overburden or products from the Property or other lands on the Surface Estate or in mine or other voids without toll or charge. The intent hereof is to provide for the broadest rights possible to develop, produce, use, operate on or otherwise utilize the Reserved Mineral Estate, in particular the Coal Estate, and to use the Surface Estate in connection therewith as may be necessary or convenient to Grantor and its lessees, designees, grantees, successors or assigns. Any rights expressed herein are in addition to any right which may be implied or which may be appurtenant to the Reserved Mineral Estate by law or in equity. To the extent any rights may not be expressed herein, then this Deed shall be interpreted to include any additional rights which are compatible to those expressed or which may be reasonably necessary or convenient for the development, production, use, operation or other utilization of the Reserved Mineral Estate, in particular the Coal Estate. Any such rights which are expressed herein or which may be implied may be exercised by the owners of the Reserved Mineral Estate, including the Coal Estate, or any portion thereof, or their parents, subsidiaries, affiliates, lessees, designees, grantees, successors or assigns, without payment of any fees or costs and without liability for damage or injury which may be caused to the Surface Estate, to the support thereof, to any changes thereto or anything which may be located thereon.

- 5. Grantee hereby agrees and covenants that for a period of fifty (50) years beginning on the date of this Deed, it will execute any waivers, consents or other documents which may be requested by Grantor its parents, subsidiaries, affiliates, lessees, designees or grantees or its or their respective directors, officers, members, managers, employees, contractors, agents, successors or assigns in connection with obtaining any permits, modifications of permits or bonds, and, to take any other action requested by Grantor, its parents, subsidiaries, affiliates, lessees, designees or grantees or its or their respective directors, officers, members, managers, employees, contractors, agents, successors or assigns to facilitate the development, production, use, operation or other utilization of the Reserved Mineral Estate, in particular the Coal Estate, or the obtaining of any permits or bonds in connection therewith.
- 6. Grantee hereby acknowledges and agrees that it has actual knowledge of (i) all prior recorded and unrecorded outconveyances of the Property by Grantor and its predecessors in title, including, without limitation, all outconveyances of the Surface Estate and grants for the use of the Surface Estate by third parties, and, (ii) all recorded and unrecorded coal leases, oil and gas leases, farm leases, residential/trailer leases, rights of entry, licenses, rights-of-way and easements and other agreements between Grantor (or its predecessors in title) and third parties affecting the Property in any manner, including, without limitation, those set forth on Schedule A attached hereto (collectively the "Third Party Agreements").

- 7. Grantor hereby EXPRESSLY EXCEPTS from the Surface Estate hereby conveyed and RESERVES unto Grantor the right to exercise all rights under the Third Party Agreements for the benefit of the Reserved Mineral Estate, in particular the Coal Estate, including, without limitation, the right to grant easements, licenses, rights-of-way and permits upon the Surface Estate, as set forth in Section 3 of this Deed.
- 8. Grantor hereby acknowledges and agrees that the conveyance of the Surface Estate by this Deed and Grantee's rights hereunder are EXPRESSLY SUBJECT and SUBORDINATE to the following:
 - (i) the rights of others pursuant to the Third Party Agreements;
- (ii) without limiting the foregoing, the rights of others pursuant to all matters set forth on Schedule A attached hereto;
- (iii) all prior outconveyances and grants of other interests, including but not in limitation, all easements, conditions, reservations, leases, licenses, and restrictions, in, to, upon or applicable to the Property made by Grantor or by predecessors in title to Grantor to third parties, whether unrecorded or of record;
 - (iv) all physical faults, defects and environmental conditions thereon;
 - (v) all matters of public record, visible upon an inspection of the Surface Estate and the Property, or, disclosed by an accurate survey of the Surface Estate and the Property; and
 - (vi) all unpaid ad valorem taxes for the 2016 tax year and subsequent tax periods, including any additional or supplemental taxes that may result from a reassessment of the Surface Estate.
- 9. Grantee hereby acknowledges and agrees that the conveyance of Surface Estate by this Deed and Grantee's rights hereunder are EXPRESSLY SUBJECT and SUBORDINATE to (i) the rights to the use of Surface Estate granted by Grantor to Penn Virginia Oil & Gas Corporation in the Special Warranty Oil & Gas Deed and Corrective and Confirmatory Oil and Gas Deed referred to on Schedule A attached hereto (the "Oil & Gas Deeds"),and, (ii) the rights of Penn Virginia Oil & Gas Corporation under the Oil & Gas Deeds as the owner of the oil and gas interests in and to the Property.
- 10. Grantee hereby acknowledges and agrees that the conveyance of the Surface Estate by this Deed and Grantee's rights hereunder are EXPRESSLY SUBJECT and SUBORDINATE

- to (i) the covenants and obligations of Grantor as the owner of both the Surface Estate and the Reserved Mineral Estate, including the Coal Estate, of the Property under the Surface Estate Use Agreement referred to on Schedule A attached hereto, as amended from time to time (the "Surface Use Agreement"), and, (ii) the rights of Appalachian Forests A, LLC as the owner of the timber interests in and to certain portions of the Property pursuant to the Timber Deeds, the Seller Timber Deeds, the Surface Use Agreement, and any other pertinent instrument, set forth on Schedule A attached hereto (collectively the "Timber Instruments"). Grantee hereby agrees and covenants that it shall not (i) cut or remove any timber from any portion of the Surface Estate that is subject to the Timber Instruments, except as allowed under the terms and conditions of the Surface Use Agreement, or, (ii) otherwise violate or take any action conflicting with the terms and conditions of the Surface Use Agreement. Grantee hereby acknowledges and agrees that the Surface Estate is bound by the Surface Use Agreement and the other Timber Instruments and covenants to Grantor that Grantee shall perform the Surface Use Agreement as if Grantee were a party thereto and will take no action or allow any omission that would result in a breach thereof.
- 11. With respect to any timber located on the Property which is not subject to the Surface Use Agreement and which is owned by Grantor as of the date of this Deed and conveyed to Grantee hereby, Grantor, for itself and its lessees, designees, grantees, successors and assigns, hereby EXPRESSLY RESERVES the right to cut or remove such timber from any part of the Surface Estate in connection with the development, production, use, operation or other utilization of the Reserved Mineral Estate, in particular the Coal Estate; provided, however, Grantor shall give Grantee ninety (90) days' prior notice before cutting or removing such timber in order that Grantee may remove merchantable timber that would otherwise be destroyed by Grantor. In the event that Grantee fails to remove any such timber within said ninety (90) day period, then Grantor or its lessees, designees, grantees, successors or assigns may remove, cut, stack, sell or otherwise dispose of any such timber without any liability to Grantee.
- 12. Grantee hereby acknowledges and agrees that the Surface Estate conveyed by this Deed and the Property are in an area which is committed to the mining and removal of coal and other minerals and that coal mining operations and other enterprises may have been conducted, may presently be in the course of being conducted and may be conducted in the future by a lessee or lessees of Grantor, or its or their sublessees or contractors, in the general vicinity thereof. Grantee hereby acknowledges and agrees that Grantee accepts the Surface Estate, including all improvements thereon, AS IS, IN ITS PRESENT CONDITION, with all physical faults, defects and environmental conditions thereof; without any express or implied representations or warranties with regard thereto, including, without limitation, any warranties of merchantability, habitability or fitness for a particular purpose; and EXPRESSLY SUBJECT to the rights of others as set forth in this Deed. Grantee hereby covenants, warrants, acknowledges and agrees that:
- (i) Grantee hereby expressly releases Grantor, its parents, subsidiaries, affiliates, lessees, designees, grantees or its or their directors, officers, members, managers, employees, contractors, agents, predecessors, successors or assigns, from any and all costs, liability, demands and claims of any nature or kind (including, without limitation, claims provided

for in any surface mining act or other law or regulation), arising from or related to the Surface Estate which arise from or out of or are related to, directly or indirectly, any past, present or future coal or other mineral extraction or related activities conducted with respect to the Property, including, without limitation, any unnatural condition that may exist, now or in the future, upon or under the Property and/or adjacent lands of Grantor as a result of such mining or other activities which in any manner has an effect upon the Surface Estate or the use thereof by Grantees, its successors or assigns;

- (ii) Grantee hereby expressly waives any claim of any nature or kind it might otherwise have against Grantor, its parents, subsidiaries, affiliates, lessees, designees, grantees or its or their respective directors, officers, members, managers, employees, contractors, agents, predecessors, successors or assigns, for any patent or latent defect to the Surface Estate (including the improvements thereon), including, without limitation, claims for existing contamination arising from the presence of hazardous materials, regulated substances or any other environmental conditions in, on, at or under the Surface Estate (including the improvements thereon);
- (iii) For a period of Fifty (50) years beginning on the date of this Deed, Grantee hereby assumes all obligations or liabilities of Grantor, if any, with respect to compliance with all federal, state and local laws, statutes, ordinances, codes, rules and regulations now in effect or adopted in the future pertaining to the handling, removing, disposing of, or otherwise abating, any hazardous materials, regulated substances or any other environmental condition which may be present in, on, or at the Surface Estate (including the improvements thereon), including, without limitation, those pertaining to the personnel authorized to conduct such activities and the manner and conditions in which such activities must be conducted; provided, however, this section shall not be construed to make Grantee responsible to Grantor for any use or discharge of a hazardous material or regulated substance or any other environmental condition by or created by a third party in the course of the development, production, use, operation or other utilization of the Reserved Mineral Estate, including the Coal Estate, in violation of applicable law then in effect;
- (iv) neither Grantor nor any of its agents have given, and Grantor is not liable for or bound in any manner by, any express or implied warranties, guarantees, promises, statements, inducements, representations or information pertaining to the absence or presence of hazardous materials, regulated substances or any other environmental condition, in, on, at or under the Surface Estate, including the improvements thereon;
- (v) Grantee disclaims any reliance by Grantee upon any information provided by Grantor pertaining to any such environmental condition in, on, at or under the Surface Estate (including the improvements thereon); and
- (vi) Grantee has and will rely solely upon Grantee's own inspections, tests, surveys, studies, procedures and investigations regarding the presence of any hazardous materials, regulated substances or any other environmental condition, in, on, at or under the Surface Estate (including the improvements thereon).

13. This Deed has been executed in multiple original counterparts for recordation purposes, each of which shall be deemed an original, but all of which together shall constitute one and the same document.

By its execution of this Deed and acceptance of delivery thereof, Grantee, for itself and its successors and assigns, expressly acknowledges its acceptance of the terms of this Deed, including, without limitation, the exceptions, reservations, restrictions, agreements, conditions, covenants, representations, warranties, waivers and releases set forth herein, and hereby agrees to be bound thereby.

Consideration Certificate. This Deed conveys real estate located in more than one county in Kentucky. The Fair Market Value of the property herein conveyed is set forth below and the parties state that this is a conveyance for nominal consideration:

TOTAL:	\$8,729,480.00	(59,643.69 Acres)
Pike County	\$1,288,894.00	(9670.25 Acres)
Martin County	\$6,880,007.00	(47,433.72 Acres)
Johnson County	\$420,000.00	(1247.98 Acres)
Floyd County	\$140,579.00	(1291.74 Acres)

[The remainder of this page is intentionally left blank.]

IN TESTIMONY WHEREOF, Grantor and Grantee have hereunto subscribed their names this day and year aforesaid.

GRANTOR:

POCAHONTAS DEVELOPMENT CORPORATION

By: _____

Its: Vice Vice ident

STATE OF WEST VIRGINIA,

COUNTY OF MERCER, to-wit:

The foregoing Deed and Consideration Certificate was produced, acknowledged and sworn to before me this \(\frac{1}{10+1} \) day of December, 2016, by JOHN W. PAYNE, the Vice President of POCAHONTAS DEVELOPMENT CORPORATION, a Kentucky corporation, on behalf of the corporation.

Beterraio J. Fillio Notary Public

My commission expires: 5-17-2020

[NOTARY SEAL]

OFFICIAL SEAL
STATE OF WEST VIRGINIA
NOTARY PUBLIC
BETERESIA J. WILLIS
2710 MARELLEN AVENUE
BLUEFIELD, WV 24701
My commission expires May 17, 2020

GRANTEE:

POCAHONTAS SURFACE INTERESTS, INC.

By:

Its: Vice President

STATE OF WEST VIRGINIA.

COUNTY OF MERCER, to-wit:

The foregoing Deed and Consideration Certificate was produced, acknowledged and sworn to before me this <u>ILv+h</u> day of December, 2016, by JOHN W. PAYNE, the Vice President of POCAHONTAS SURFACE INTERESTS, INC., a Virginia corporation, on behalf of the corporation.

Beterria J. Frillis Notary Public

My commission expires: 5-17-2020

[NOTARY SEAL]

OFFICIAL SEAL
STATE OF WEST VIRGINIA
NOTARY PUBLIC
BETERESIA J. WILLIS
2710 MARELLEN AVENUE
BLUEFIELD, WV 24701
My commission expires May 17, 2020

This instrument was prepared by:

William S. Kendrick, Esq. (KBA No. 38120)

PENN, STUART & ESRIDGE 119 East Court Street, Ste. 201 Prestonsburg, Kentucky 41653

Phone: (606)263-4966

STATE OF KENTUCKY

COUNTY OF Martin

Clerk's Certificate of Lodgment and Record

Susie Skules	Clerk of the County Court for the	ne County and Stat
aforesaid, certify that the foregoing Deed wa		
for record, whereupon the same, with the formy office.		
Witness my hand, this <u>21</u>	_day of December, 2016.	
	Susie Styles	Clerk
	By: Knissy Stater	D.C.

SCHEDULE A

("Kentucky Main Tract Properties" and "Rouge Steel Properties")

I.

KENTUCKY – MAIN TRACT PROPERTIES

Various tracts of land containing in the aggregate 50,847.06 acres, more or less, situated generally in Floyd County, Kentucky, on the waters of Johns Creek and Dicks Creek of same, tributaries of Levisa Fork; in Johnson County, Kentucky, on the waters of Right Fork of Daniels Creek; in Martin County, Kentucky, on the waters of Rockcastle Creek and Rockhouse Fork, Middle Fork and Coldwater Fork of same, and on Wolf Creek, and Meathouse Creek and Pigeonroost Fork of same, all tributaries of Tug Fork; and in Pike County, Kentucky, on the waters of Left Fork of Brushy Fork of Johns Creek of Levisa Fork, and Elkins Fork and Bent Branch of Big Creek of Tug Fork, acquired by Pocahontas Development Corporation, Grantor herein, or its predecessors, pursuant to the instruments set forth below, which are hereby incorporated herein by reference for a more particular description of the Property of which the Surface Estate is hereby conveyed, as well as any and all other lands owned by Grantor in said counties:

1. The following instruments by which certain tracts of the Property situate in Floyd County, Kentucky, were acquired by Pocahontas Land Corporation, predecessor in title of Pocahontas Development Corporation:

a. Deed dated December 14, 1942, from Mabel S. Agassiz, and others, to Pocahontas Land Corporation, of record in the Office of the Clerk of Floyd County, Kentucky, in Deed Book 119, at page 559;

b. Deed dated December 1, 1949, from Kentucky By-Products Coal Company, and others, to said Pocahontas Land Corporation, of record in the Office of the Clerk of Floyd County, Kentucky, in Deed Book 124, at page 224;

c. Deed dated October 15, 1952, from W. B. Taylor, Jr., and wife, to said Pocahontas Land Corporation, of record in the Office of the Clerk of Floyd County, Kentucky, in Deed Book 152, at page 383;

d. Deed dated April 1, 1953, from Rella Morrison, widow, to said Pocahontas Land Corporation, of record in the Office of the Clerk of Floyd County, Kentucky, in Deed Book 153, at page 316; and

e. Deed dated December 1, 1959, from Federal Gas, Oil and Coal Company to said Pocahontas Land Corporation, of record in the Office of the Clerk of Floyd County, Kentucky, in Deed Book 173, at page 94.

2. Deed dated September 1, 1977, from said Pocahontas Land Corporation to Pocahontas Kentucky Corporation, predecessor of Pocahontas Development Corporation, of record in the Office of the Clerk of Floyd County, Kentucky, in Deed Book 231, at page 56.

Pocahontas Kentucky Corporation was merged into Pocahontas Development Corporation effective as of August 24, 1983, as shown by Articles and Certificate of Merger of record in the office of the Clerk of Floyd County, Kentucky, in Articles of Incorporation Book 8, Page 278.

- 3. The following instruments by which certain tracts of the Property situate in Johnson County, Kentucky, were acquired by Pocahontas Land Corporation, predecessor in title of Pocahontas Development Corporation:
- a. Deed dated December 14, 1942, from Mabel S. Agassiz, and others, to said Pocahontas Land Corporation, of record in the Office of the Clerk of Johnson County, in Deed Book 104, at page 359;
- b. Deed dated December 1, 1949, from Pittsburgh Consolidation Coal Company to said Pocahontas Land Corporation, of record in the Office of the Clerk of Johnson County, Kentucky, in Deed Book 123, at page 609.
- 4. Deed dated September 1, 1977, from said Pocahontas Land Corporation to Pocahontas Kentucky Corporation, predecessor of Pocahontas Development Corporation, of record in the Office of the Clerk of Johnson County, Kentucky, in Deed Book 188, at page 11.

Pocahontas Kentucky Corporation was merged into Pocahontas Development Corporation effective as of August 24, 1983, as shown by Articles and Certificate of Merger of record in the office of the Clerk of Johnson County, Kentucky, in Articles of Incorporation Book 10, Page 296.

- 5. The following instruments by which certain tracts of the Property situate in Martin County, Kentucky, were acquired by Pocahontas Land Corporation, predecessor in title of Pocahontas Development Corporation:
- a. Deed dated December 14, 1942, from Mabel S. Agassiz, and others, to said Pocahontas Land Corporation, of record in the Office of the Clerk of Martin County, Kentucky, in Deed Book 39, at page13:
- b. Deed dated October 6, 1944, from Kentucky By-Products Coal Company, and others, to said Pocahontas Land Corporation, of record in the Office of the Clerk of Martin County, Kentucky, in Deed Book 41, at page 346;
- c. Deed dated February 28, 1945, from Inez Cline Moore, and others, to said Pocahontas Land Corporation, of record in the Office of the Clerk of Martin County, Kentucky, in Deed Book 42, at page 25;
- d. Deed dated April 2, 1946, from Goldie Cline, widow, to said Pocahontas Land Corporation, of record in the Office of the Clerk of Martin County, Kentucky, in Deed Book 44, at page 370;

- e. Deed dated April 18, 1945, from William Russell Cline, and wife, to said Pocahontas Land Corporation, of record in the Office of the Clerk of Martin County, Kentucky, in Deed Book 44, at page 374;
- f. Deed dated April 2, 1946, from Mary Pauline Cline, unmarried, to said Pocahontas Land Corporation, of record in the Office of the Clerk of Martin County, Kentucky, in Deed Book 44, at page 380;
- g. Deed dated December 1, 1949, from Pittsburgh Consolidation Coal Company, to said Pocahontas Land Corporation, of record in the Office of the Clerk of Martin County, Kentucky, in Deed Book 49, at page 152;
- h. Deed dated October 11, 1950, from Dollie Cline, and husband, to said Pocahontas Land Corporation, of record in the Office of the Clerk of Martin County, Kentucky, in Deed Book 50, at page 276;
- i. Deed dated February 26, 1952, from Big Sandy Company to said Pocahontas Land Corporation, of record in the Office of the Clerk of Martin County, Kentucky, in Deed Book 52, at page 161;
- j. Quitclaim Deed of Exchange dated December 9, 1953, from Federal Gas, Oil and Coal Company to said Pocahontas Land Corporation, of record in the Office of the Clerk of Martin County, Kentucky, in Deed Book 53, at page 605;
- k. Deed dated October 18, 1954, from Lula Delong Rowland, and husband, to said Pocahontas Land Corporation, of record in the Office of the Clerk of Martin County, Kentucky, in Deed Book 54, at page 338;
- 1. Deed dated October 1, 1956, from Samuel Goble, and others, to said Pocahontas Land Corporation, of record in the Office of the Clerk of Martin County, Kentucky, in Deed Book 55, at page 629;
- m. Deed dated December 1, 1959, from Federal Gas, Oil and Coal Company, to said Pocahontas Land Corporation, of record in the Office of the Clerk of Martin County, Kentucky, in Deed Book 58, at page 210;
- n. Quitclaim Deed dated June 1, 1962, from Board of Education of Martin County, Kentucky, to said Pocahontas Land Corporation, of record in the Office of the Clerk of Martin County, Kentucky, in Deed Book 60, at page 75;
- o. Deed dated September 7, 1965, from John Hale, single, to said Pocahontas Land Corporation, of record in the Office of the Clerk of Martin County, Kentucky, in Deed Book 62, at page 5;

- p. Deed dated June 13, 1966, from Rowland Collins, and wife, to said Pocahontas Land Corporation, of record in the Office of the Clerk of Martin County, Kentucky, in Deed Book 62, at page 372;
- q. Deed dated June 13, 1966, from Corda Jude, widow, to said Pocahontas Land Corporation, of record in the Office of the Clerk of Martin County, Kentucky, in Deed Book 62, at page 384;
- r. Deed dated May 10, 1970, from Delphia Mullens, and others, to said Pocahontas Land Corporation, of record in the Office of the Clerk of Martin County, Kentucky, in Deed Book 66, at page 39, and in Deed Book 67, at page 516;
- s. Deed dated June 30, 1970, from Hiram Tiller, and wife, to said Pocahontas Land Corporation, of record in the Office of the Clerk of Martin County, Kentucky, in Deed Book 66, at page 73;
- t. Deed dated July 25, 1970, from Alaphair Reitz, and others, to said Pocahontas Land Corporation, of record in the Office of the Clerk of Martin County, Kentucky, in Deed Book 66, at page 106;
- u. Deed dated July 20, 1970, from John T. Delong, widower, to said Pocahontas Land Corporation, of record in the Office of the Clerk of Martin County, Kentucky, in Deed Book 66, at page 108;
- v. Deed dated August 1, 1970, from Eula Garred, and others, to said Pocahontas Land Corporation, of record in the Office of the Clerk of Martin County, Kentucky, in Deed Book 66, at page 124, and in Deed Book 67, at page 756;
- w. Deed dated November 20, 1970, from John T. Delong, widower, to said Pocahontas Land Corporation, of record in the Office of the Clerk of Martin County, Kentucky, in Deed Book 66, at page 379;
- x. Deed dated December 1, 1970, from John T. Delong, widower, to said Pocahontas Land Corporation, of record in the Office of the Clerk of Martin County, Kentucky, in Deed Book 66, at page 411;
- y. Deed of Exchange dated March 10, 1971, from Elmer McGinnis, and wife, to said Pocahontas Land Corporation, of record in the Office of the Clerk of Martin County, Kentucky, in Deed Book 68, at page 208:
- z. Deed dated August 2, 1971, from Earl F. Marcum, and wife, to said Pocahontas Land Corporation, of record in the Office of the Clerk of Martin County, Kentucky, in Deed Book 68, at page 602;

- aa. Deed dated May 15, 1973, from Terry Elkhorn Mining Company, to said Pocahontas Land Corporation, of record in the Office of the Clerk of Martin County, Kentucky, in Deed Book 71, at page 276;
- bb. Quitclaim Deed of Exchange and Partial Surrender of Lease dated May 1, 1976, from Eli Goble, and others, to said Pocahontas Land Corporation, of record in the Office of the Clerk of Martin County, Kentucky, in Lease Book 40, at page 159; and
- cc. Deed dated June 10, 1977, from Pontiki Coal Corporation to said Pocahontas Land Corporation, of record in the Office of the Clerk of Martin County, Kentucky, in Deed Book 81, at page 706.
- 6. Deed dated September 1, 1977, from said Pocahontas Land Corporation to Pocahontas Kentucky Corporation, predecessor of Pocahontas Development Corporation, of record in the Office of the Clerk of Martin County, Kentucky, in Deed Book 81, at page 874.

Pocahontas Kentucky Corporation was merged into Pocahontas Development Corporation effective as of August 24, 1983, as shown by Articles and Certificate of Merger of record in the office of the clerk of Martin County, Kentucky in Articles of Incorporation Book 4, Page 118.

- 7. Confirmatory Deed dated December 15, 1980, from Pontiki Coal Corporation to Pocahontas Development Corporation, of record in the Office of the Clerk of Martin County, Kentucky, in Deed Book 90, at page 590.
- 8. Deed dated September 19, 1984, from Connel J. Ware and Ruby Ware, husband and wife, to Pocahontas Development Corporation, of record in the Office of the Clerk of Martin County, Kentucky, in Deed Book 96, at page 294.
- 9. The following instruments by which certain tracts of the Property situate in Pike County, Kentucky, were acquired by Pocahontas Land Corporation, predecessor in title of Pocahontas Development Corporation:
- a. Deed dated October 6, 1944, from Kentucky By-Products Coal Company, and others, to said Pocahontas Land Corporation, of record in the Office of the Clerk of Pike County, Kentucky, in Deed Book 242, at page 567;
- b. Deed dated October 15, 1952, from W. L. Taylor, Jr., and wife, to said Pocahontas Land Corporation, of record in the Office of the Clerk of Pike County, Kentucky, in Deed Book 343, at page 353;
- c. Deed dated December 1, 1959, from Federal Gas, Oil and Coal Company to said Pocahontas Land Corporation, of record in the Office of the Clerk of Pike County, Kentucky, in Deed Book 411, at page 645; and

- d. Quitclaim Deed of Exchange dated February 5, 1965, from Ray Taylor Harris, and wife, to said Pocahontas Land Corporation, of record in the Office of the Clerk of Pike County, Kentucky, in Deed Book 459, at page 490.
- 10. Deed dated September 1, 1977, from said Pocahontas Land Corporation to Pocahontas Kentucky Corporation, predecessor of Pocahontas Development Corporation, of record in the Office of the Clerk of Pike County, Kentucky, in Deed Book 543, at page 174.

Pocahontas Kentucky Corporation was merged into Pocahontas Development Corporation effective as of August 24, 1983, as shown by Articles and Certificate of Merger of record in the office of the Clerk of Pike County, Kentucky, in Articles of Incorporation Book 10, Page 267.

In addition, all deeds, maps, plats and other instruments by which Grantor herein or said Grantor's predecessors in title were vested with title to the Property of which the Surface Estate is hereby conveyed are hereby incorporated herein by reference for a more particular description of the Property.

Said 50,847.06 acres, more or less, are made up of different tracts of land tabulated by various tax charges in the county and district set forth below. The areas given below are based on internal records of the Grantor and are not based on any tax account acreages returned for assessment. The information set forth below is provided for convenience of designation only, and nothing set forth herein is to be construed as a warranty of acreage.

The Tax Charge ID and Tract Identification information set forth below are provided for identification purposes in order for the Grantor and Grantee herein to identify the specific tracts situated within the Property of which the Surface Estate is hereby conveyed. The specific tracts are blocked according to their geographical location within a particular county and magisterial district.

TABLE OF AREA

In Floyd County, Kentucky

Tax Charge ID	Tract Identification	Area in Acres
42-FL-02	ROCKCASTLE	935.00
42-FL-04	ROCKCASTLE	16.00
42-FL-06	JOHNS CREEK	277.28
48-FL-04	TAYLOR TRACT	28.56
48-FL-06	BRUSHY FORK	12.78
48-FL-08	BRUSHY FORK	<u>22.12</u>
Total – Floyd Cour	nty	1,291.74

In Johnson County, Kentucky

Tax Charge ID	Tract Identification	Area in Acres
01-JN-02	GREASY CREEK, DANIELS CREEK	466.20
42-JN-02	BRUSHY FORK – ROCKCASTLE (AGASSIZ)	41.54
42-JN-04	ROCKCASTLE (AGASSIZ)	<u>740.24</u>
Total – Johnson C	ounty	1,247.98

In Martin County, Kentucky

Tax Charge ID	Tract Identification	Area in Acres
01-MR-02	MILO QUAD	146.20
		*1.29
01-MR-02A	MILO QUAD	78.10
01-MR-04	INEZ QUAD	11.75
01-MR-06	INEZ QUAD	21.31
01-MR-08	INEZ QUAD	6.81
01-MR-10	INEZ QUAD	159.66
01-MR-12	INEZ QUAD	45.33
01-MR-14	OFF QUAD	298.07
105-MR-02	KERM; VAR QUAD	125.16
105-MR-04	VAR QUAD	744.21
105-MR-06	VAR QUAD	2.07
105-MR-08	VAR QUAD	1.26
105-MR-10	VAR QUAD	1.00
105-MR-12	VAR QUAD	2.70
105-MR-16	KERM QUAD	19.20
105-MR-18	KERM QUAD	151.82
105-MR-20	KERM QUAD	246.10
105-MR-26	NAUG; WILL QUAD	18.40
15-MR-02	VAR QUAD	3,447.00
42-MR-02	INEZ; LANC QUAD	9,103.51
42-MR-04	THOM QUAD	382.61
42-MR-07	THOM QUAD	***169.00
46-MR-02	KERM; VAR QUAD	6,957.18
46-MR-04	KERM; VAR QUAD	2,730.81
46-MR-06	VAR QUAD	286.35
46-MR-08	KERM QUAD	*88.46
46-MR-09	KERM; THO QUAD (NS Wolf Creek Spur	97.84
	Exchange – NOT MAPPED)	
46-MR-10	KERM QUAD	106.50
46-MR-13	KERM QUAD	8.28

47,433.72

46-MR-15	KERM QUAD	30.98
46-MR-17	KERM QUAD	28.61
48-MR-02	INEZ; OFF QUAD	1,974.25
48-MR-04	INEZ; KERM QUAD	8,588.10
48-MR-06	INEZ QUAD	**86.25
48-MR-08	INEZ QUAD	**89.53
48-MR-10	INEZ QUAD	26.25
48-MR-12	OFF QUAD	****77.82
48-MR-14	INEZ QUAD	**149.75
48-MR-16	INEZ; KERM QUAD	1,608.45
48-MR-18	INEZ QUAD	3.29
48-MR-20	THOM QUAD	413.16
48-MR-22	THOM QUAD	649.44
48-MR-24	THOM QUAD	3,369.68
48-MR-28	THOM QUAD	***16.19
48-MR-29	INEZ; KERM QUAD (NS Wolf Creek Spur	144.49
	Exchange – NOT MAPPED)	
48-MR-30	THOM QUAD	***31.25
48-MR-32	INEZ QUAD	1,397.68
48-MR-34	WATERS OF NEDDY FORK AND PESLEY FORK	650.24
	OF MAYMARD CREEK OF WOLF CREEK	
48-MR-36	THOM; VAR QUAD	35.00
48-MR-38	THOM; VAR QUAD	87.75
48-MR-40	THOM QUAD	163.00
48-MR-42	THOM QUAD	81.86
48-MR-44	VAR QUAD	310.22
48-MR-48	VAR QUAD	108.00
48-MR-50	VAR QUAD	11.46
48-MR-52	INEZ QUAD	23.00
48-MR-54	KERM QUAD	*17.00
48-MR-56	INEZ QUAD	394.27
48-MR-58	INEZ QUAD	24.93
48-MR-60	THOM QUAD	1,140.67
48-MR-62	INEZ; KERM QUAD	97.51
48-MR-64	INEZ QUAD	57.56
105-MR-28	WILL QUAD	15.19
111-MR-02	KERM QUAD	<u>73.00</u>

^{*} Pocahontas Development Corporation owns timber interests appurtenant to the Surface Estate of this tract.

Total – Martin County

^{**} Pocahontas Development Corporation owns an undivided 1/2 interest in this tract, less timber, oil and gas.

*** Pocahontas Development Corporation owns a 1/3 undivided interest in this tract, less timber, oil and gas.

**** Pocahontas Development Corporation owns a 199/200 undivided interest in this tract, less timber oil, and gas.

In Pike County, Kentucky

Tax Charge ID	Tract Identification	Area in Acres
105-PK-02	WILL; VAR QUAD	250.52
105-PK-04	WILL QUAD	22.49
15-PK-02	VAR QUAD	463.07
48-PK-02	THOM QUAD	<u>137.54</u>
Total – Pike Count	ty	873.62

SUMMARY OF AREA

County	Area in Acres
Floyd	1,291.74
Johnson	1,247.98
Martin	47,433.72
Pike	873.62
Total – Kentucky – Main Tract	50,847.06

SUBJECT, However, to the rights of:

- (a) Penn Virginia Oil & Gas Corporation, its successors and assigns, as the owner of certain oil, gas and coalbed methane gas, pursuant to:
- (i) that certain Special Warranty Oil & Gas Deed dated April 1, 2000, from Pocahontas Development Corporation, of record in the Office of the Clerk of Floyd County, Kentucky, in Deed Book 448, at page 28; in the Office of the Clerk of Martin County, Kentucky, in Deed Book 139, at page 110; and in the Office of the Clerk of Pike County, Kentucky, in Deed Book 787, at page 455; and
- (ii) that certain Corrective and Confirmatory Oil and Gas Deed effective as of April 1, 2000, from Pocahontas Development, of record in the Office of the Clerk of Floyd County, Kentucky, in Deed Book 453, at page 662; in the Office of the Clerk of Martin County, Kentucky, in Lease Book 67, at page 58; and in the Office of the Clerk of Pike County, Kentucky, in Deed Book 759 at page 771;

- (b) Appalachian Forests A, LLC, its successors and assigns, as the owner of certain timber interest, pursuant to:
- (i) that certain Timber Deed dated September 29, 2000, from Pocahontas Development Corporation to PDC, LLC, of record in the Office of the Clerk of Floyd County, Kentucky, in Deed Book 452, at page 106; in the Office of the Clerk of Johnson County, Kentucky, in Deed Book 366, at page 214; in the Office of the Clerk of Martin County, Kentucky, in Deed Book 140, at page 250; and in the Office of the Clerk of Pike County, Kentucky, in Deed Book 793, at page 391;
- (ii) that certain Seller Timber Deed dated September 29, 2000, from PDC, LLC to Bluefield Timber LLC, of record in the Office of the Clerk of Floyd County, Kentucky, in Deed Book 452, at page 130; in the Office of the Clerk of Johnson County, Kentucky, in Deed Book 366, at page 238; in the Office of the Clerk of Martin County, Kentucky, in Deed Book 140, at page 274; and in the Office of the Clerk of Pike County, Kentucky, in Deed Book 793, at page 414:
- (iii) that certain Surface Use Agreement dated September 29, 2000, between Pocahontas Land Corporation, Pocahontas Development Corporation, Southern Region Industrial Realty, Inc., collectively as the "Companies", and Bluefield Timber LLC, as the "Buyer", as amended, recorded by Memorandum of Surface Use Agreement in the Office of the Clerk of Floyd County, Kentucky, in Deed Book 467, at page 326; in the Office of the Clerk of Martin County, Kentucky, in Lease Book 68, at page 241; and in the Office of the Clerk of Pike County, Kentucky, in Deed Book 813, at page 404; and
- (iv) that certain Deed dated November 13, 20007, from Bluefield Timber LLC to Appalachian Forests A, LLC, of record in the Office of the Clerk of Floyd County, Kentucky, in Deed Book 541, at page 179; in the Office of the Clerk of Johnson County, Kentucky, in Deed Book 410, at page 001; in the Office of the Clerk of Martin County, Kentucky, in Deed Book 166, at page 420; and in the Office of the Clerk of Pike County, Kentucky, in Deed Book 914, at page 604;
 - (b) Middlefork Land Company, its successors and assigns:
- (i) pursuant to that certain Lease dated October 2, 1995, as supplemented and amended, recorded in Martin County Court Clerk's Office in Lease Book No. 70, page 291, from Pocahontas Development Corporation;
- (ii) as successor in interest of Beech Fork Processing, pursuant to that certain unrecorded Assignment, Consent to Assignment, Amendment of Lease and Agreement dated June 1, 1998, between Pocahontas Development Corporation, Beech Fork Processing and Middlefork Land Company;
- (iii) as remote successor in interest of Saarcar Coal, Inc., pursuant to that certain unrecorded Consent to Assignment and Estoppel Certificate dated September 15, 1998, between

Pocahontas Development Corporation, Mountaineer Land Company, successor in interest of Saarcar Coal, Inc., and Middlefork Land Company; and

- (iv) as successor in interest of Martin County Coal Corporation, pursuant to that certain Consent and Partial Assignment dated June 25, 2001, between Pocahontas Development, Martin County Coal Corporation, and Middlefork Land Company;
 - (c) Lauren Land Company, its successors and assigns:
- (i) pursuant to that certain Lease dated January 31, 1992, as supplemented and amended, from Pocahontas Development Corporation, of record in the Office of the Clerk of Martin County, Kentucky, in Lease Book 58, at page 98; and
- (ii) as successor to B.C. Coal Company pursuant to those certain Articles of Merger dated January 1, 1994, merging B.C. Coal Company and Big Creek Land Company into Lauren Land Company;
 - (d) Martin County Coal Corporation, its successors and assigns, pursuant to:
- (i) that certain Lease and Agreement dated June 1, 1969, as supplemented and amended, from Pocahontas Land Corporation, remote predecessor in title of Pocahontas Development, recorded by Memorandum of Lease in the Office of the Clerk of Martin County, Kentucky, in Book 70, at page 440; and
- (ii) that certain Lease and Agreement dated July 1, 1972, from Pocahontas Land Corporation, remote predecessor in title of Pocahontas Development Corporation, of record in the Office of the Clerk of Martin County, Kentucky, in Lease Book 70, at page 451;
- (e) Toptiki Coal Corporation, its successors and assigns, pursuant to that certain Lease dated November 12, 2000, as supplemented and amended, from Pocahontas Development Corporation, of record in the Office of the Clerk of Martin County, Kentucky, in Lease Book 81, at page 466;
 - (f) Revelation Energy, LLC, its successors and assigns:
- (i) as successor in interest of Pontiki Coal, LLC, pursuant to that certain Assignment and Assumption of Leases dated May 16, 2014, that certain as successor to Pontiki Coal Corporation Assignment and Assumption of Leases between Pontiki Coal, LLC and Revelation Energy, LLC, of record in the Office of the Clerk of Martin County, Kentucky, in Lease Book 82, at page 29;
- (ii) as successor in interest of Lexington Coal Company, pursuant to that certain unrecorded Consent and Estoppel Agreement dated February 10, 2012, between Lexington Coal Company and Revelation Energy, LLC; and

- (iii) pursuant to that certain Right of Entry dated December 11, 2013, for the purpose of mining the Coalburg Seam and seams above within ten parcels of land aggregating 24,705.95 acres, more or less from Pocahontas Development Corporation (will expire upon execution of lease);
- (g) Others as owners of the oil, gas, coalbed methane gas, and various seams of coal not owned by Pocahontas Development Corporation;
- (h) Norfolk Southern Railway Company, its successors and assigns, for railway rights of way as now located and in use;
- (i) BellSouth Telecommunications, LLC, its successors and assigns, for telephone lines and appurtenances as now located and in use or which may be placed upon the property pursuant to rights presently vested in BellSouth Telecommunications, LLC;
- (j) Kentucky Power Company, its successors and assign, for rights of way for electric power transmission lines and appurtenances as now located and in use or which may be placed upon the property pursuant to rights presently vested in Kentucky Power Company;
- (k) Commonwealth of Kentucky for the use and benefit of the Transportation Cabinet, and the public for rights of way for public roads as now located and in use;
- (l) Others in any and all transmission lines, pipelines, rights of way, structures, easements and restrictions as may or may not appear of record; and
- (m) The public, United States of America, Commonwealth of Kentucky, riparian owners and others, if any, in and to the beds and streams of any and all waterways, tributaries and other drainage systems which may be included within the boundaries of said 50,847.15 acres, more or less; and
- (n) Others pursuant to any and all outconveyances of the Surface Estate and/or other interests in and to the Property by Pocahontas Development Corporation.

II.

ROUGE STEEL PROPERTIES

Various tracts of land containing approximately 8,796.60 acres, situated in Pike County, Kentucky, on the waters of Tug Fork, and Pond Creek and Blackberry Creek of same; and on Blackberry and Pinson Forks of said Pond Creek, and Left and Right Forks of said Blackberry Creek, acquired by Pocahontas Development Corporation, Grantor herein, or its predecessors, pursuant to the instruments set forth below, which are hereby incorporated herein by reference for a more particular description of the Property of which the Surface Estate is hereby conveyed, as well as any and all other lands conveyed by Grantor in said county:.

for a more particular description of the Property of which the Surface Estate is hereby conveyed, as well as any and all other lands conveyed by Grantor in said county:.

- 1. Quitclaim Deed dated January 1, 1982, from Ford Motor Company to Rouge Steel Company, predecessor in title of Pocahontas Development Corporation, of record in the Office of the Clerk of Pike County, Kentucky, in Deed Book 601, at page 509.
- 2. Deed dated March 5, 1987, from said Rouge Steel Company to Pocahontas Development Corporation, of record in the Office of the Clerk of Pike County, Kentucky, in Deed Book 602, at page 342.
- 3. Deed of Exchange dated March 13, 1995, between Pocahontas Development Corporation and Road Fork Development Company, Inc., with Stone Mining Company, Lauren Land Company and Ridge Mining, Inc. joining, of record in the Office of the Clerk of Pike County, Kentucky, in Deed book 716, at page 335.
- 4. Deed dated December 30, 1997, from Sunny Ridge Enterprises, Inc. to Pocahontas Development Corporation, of record in the Office of the Clerk of Pike County, Kentucky, in Deed Book 749, at page 510.
- 5. Deed dated December 30, 1997, from Sunny Ridge Enterprises, Inc. to Pocahontas Development Corporation, of record in the Office of the Clerk of Pike County, Kentucky, in Deed Book 749, at page 514.
- 6. Quitclaim Deed dated February 19, 2002, from Norfolk Southern Railway Company to Pocahontas Development Corporation, of record in the Office of the Clerk of Pike County, Kentucky, in Deed Book 813, at page 499.
- 7. Deed of Exchange dated April 2, 2002, between Pocahontas Development Corporation, and, Ernie Justice and Anna Louise Justice, husband and wife, with Lauren Land Company and Stone Mining Company joining, of record in the Office of the Clerk of Pike County, Kentucky, in Deed Book 834, at page 592.

In addition, all deeds, maps, plats and other instruments by which Grantor herein or said Grantor's predecessors in title were vested with title to the Property of which the Surface Estate is hereby conveyed are hereby incorporated herein by reference for a more particular description of the Property.

Said approximate 8,796.63 acres are made up of different tracts of land tabulated by various tax charges in the county and district set forth below. The information given below is provided for convenience only, and nothing set forth herein is to be construed as a warranty of acreage. The Tax Charge ID and Tract Identification information set forth below are provided for identification purposes for the Grantor and Grantee herein. The specific tracts are blocked according to their geographical location within a particular county and magisterial district.

TABLE OF AREA

Pike County, Kentucky

Tax Charge ID	Tract Identification	Area in Acres
16-PK-02	MATE QUAD	24.75
16-PK-04	MATE QUAD	**54.00
16-PK-06	MATE QUAD	114.57
16-PK-07	MATE QUAD	60.11
16-PK-08	MATE QUAD	38.42
16-PK-10	MATE QUAD	33.78
16-PK-12	MATE QUAD	9.58
16-PK-14	MATE QUAD	1,237.95
16-PK-15	MATE QUAD	*106.29
16-PK-16	MATE QUAD	77.55
16-PK-18	MATE QUAD	14.23
16-PK-22	MATE QUAD	13.68
16-PK-24	MATE QUAD	28.87
20-PK-02	MATEWAN QUAD	566.75
20-PK-04	MATEWAN QUAD	0.40
27-PK-02	NARROWS BR OF BLACKBERRY CR OF	1,020.94
	POND CREEK	*0.87
27-PK-04	DELB QUAD	6.51
32-PK-01	BELF; DELB QUAD	23.84
32-PK-02	WATERS OF MILL BRANCH OF	429.29
	POND FORK	
32-PK-04	POND CREEK OF TUG FORK	369.00
32-PK-06	BELF QUAD	28.15
32-PK-08	BELF QUAD	47.67
32-PK-10	BELF QUAD	37.78
32-PK-12	BELF QUAD	33.98
32-PK-13	WATERS OF LOVE BRANCH OF	0.66
	POND CREEK	
32-PK-14	BELF; MATE QUAD	1,369.10
		*3.00
32-PK-16	MATE QUAD	770.47
32-PK-18	LEFT FORK OF BLACKBERRY CREEK	880.16
	TUG FORK	
32-PK-20	WILL QUAD	25.48
32-PK-22	MATE QUAD	88.98
		***46.94
32-PK-24	MATE QUAD	3.25
32-PK-30	MATE QUAD	63.29
32-PK-36	MATE QUAD	20.11
37-PK-02	MATE QUAD	26.33

37-PK-06	BELF QUAD	9.90
37-PK-08	MATE QUAD	38.75
49-PK-02	MATE QUAD	321.71
49-PK-04	MATE QUAD	13.86
58-PK-02	MATE QUAD	566.92
58-PK-04	MATE QUAD	150.00
HAGER TRACT	WATERS OF LEFT FORK OF	1.25
	OF BLACKBERRY CREEK	
HAGER TRACT	WATERS OF LEFT HAND FORK OF	11.56
	OF BLACKBERRY CREEK	
NS NARROWS	WATERS OF NARROWS BRANCH OF	*4.95
BRANCH	BLACKBERRY CREEK OF POND CREEK	
Ernie Justice	PEEL POPLAR BRANCH OF LEFT FORK	*1.00
	BLACKBERRY CREEK	

Total – Rouge Steel 8,796.63

* Pocahontas Development Corporation owns the timber interests appurtenant to the Surface Estate of this tract.

** Pocahontas Development Corporation owns a 2/3 undivided interest in this tract, less the timber, oil and gas.

***Pocahontas Development Corporation owns a 13/14 undivided interest and a 1/14 undivided interest in this tract, less the timber, oil and gas.

SUBJECT, However, to rights of:

- (a) Penn Virginia Oil & Gas Corporation, its successors and assigns, as the owner of certain oil, gas and coalbed methane gas, pursuant to:
- (i) that certain Special Warranty Oil & Gas Deed dated April 1, 2000, from Pocahontas Development Corporation, of record in the Office of the Clerk of Floyd County, Kentucky, in Deed Book 448, at page 28; in the Office of the Clerk of Martin County, Kentucky, in Deed Book 139, at page 110; and in the Office of the Clerk of Pike County, Kentucky, in Deed Book 787, at page 455; and
- (ii) that certain Corrective and Confirmatory Oil and Gas Deed effective as of April 1, 2000, from Pocahontas Development, of record in the Office of the Clerk of Floyd County, Kentucky, in Deed Book 453, at page 662; in the Office of the Clerk of Martin County, Kentucky, in Lease Book 67, at page 58; and in the Office of the Clerk of Pike County, Kentucky, in Deed Book 759 at page 771;
- (b) Appalachian Forests A, LLC, its successors and assigns, as the owner of certain timber interest, pursuant to:

- (i) that certain Timber Deed dated September 29, 2000, from Pocahontas Development Corporation to PDC, LLC, of record in the Office of the Clerk of Floyd County, Kentucky, in Deed Book 452, at page 106; in the Office of the Clerk of Johnson County, Kentucky, in Deed Book 366, at page 214; in the Office of the Clerk of Martin County, Kentucky, in Deed Book 140, at page 250; and in the Office of the Clerk of Pike County, Kentucky, in Deed Book 793, at page 391;
- (ii) that certain Seller Timber Deed dated September 29, 2000, from PDC, LLC to Bluefield Timber LLC, of record in the Office of the Clerk of Floyd County, Kentucky, in Deed Book 452, at page 130; in the Office of the Clerk of Johnson County, Kentucky, in Deed Book 366, at page 238; in the Office of the Clerk of Martin County, Kentucky, in Deed Book 140, at page 274; and in the Office of the Clerk of Pike County, Kentucky, in Deed Book 793, at page 414
- (iii) that certain Surface Use Agreement dated September 29, 2000, between Pocahontas Land Corporation, Pocahontas Development Corporation, Southern Region Industrial Realty, Inc., collectively as the "Companies", and Bluefield Timber LLC, as the "Buyer", as amended, recorded by Memorandum of Surface Use Agreement in the Office of the Clerk of Floyd County, Kentucky, in Deed Book 467, at page 326; in the Office of the Clerk of Martin County, Kentucky, in Lease Book 68, at page 241; and in the Office of the Clerk of Pike County, Kentucky, in Deed Book 813, at page 404; and
- (iv) that certain Deed dated November 13, 20007, from Bluefield Timber LLC to Appalachian Forests A, LLC, of record in the Office of the Clerk of Floyd County, Kentucky, in Deed Book 541, at page 179; in the Office of the Clerk of Johnson County, Kentucky, in Deed Book 410, at page 001; in the Office of the Clerk of Martin County, Kentucky, in Deed Book 166, at page 420; and in the Office of the Clerk of Pike County, Kentucky, in Deed Book 914, at page 604;
- (c) Duchess Coal Company, its successors and assigns, pursuant to that certain Amended and Restated Lease dated February 22, 1993, as amended and modified, from Pocahontas Development Corporation to Stone Mining Company, predecessor in interest of Duchess Coal Company, of record in the Office of the Clerk of Pike County, Kentucky, in Deed Book 722, at page 546;
- (d) Lauren Land Company, its successors and assigns, pursuant to that certain Amended and Restated Lease dated February 22, 1993, from Pocahontas Development Corporation, of record in the Office of the Clerk of Pike County, Kentucky, in Deed Book 722, at page 558;
- (e) ICG East Kentucky, LLC, its successors and assigns, pursuant to that certain unrecorded Lease dated May 8, 2008, as renewed on August 17, 2015, for reclamation purposes only, from Pocahontas Development Corporation;
 - (f) Revelation Energy, LLC, its successors and assigns:

- (i) as successor in interest of Appalachian Fuels, LLC, pursuant to that certain unrecorded Lease dated July 31, 2003, and effective June 22, 2003, from Pocahontas Development Corporation to Appalachian Fuels, LLC, and that certain unrecorded Addendum to Lease dated December 14, 2009 (resulting from Appalachian Fuels, LLC's bankruptcy proceedings);
- (ii) as sublessee of Colonial Coal Company, Inc., pursuant to that certain unrecorded Lease and Sublease Agreement dated August 19, 2011; and
- (iii) as successor in interest of Lexington Coal Company, pursuant to that certain unrecorded Consent and Estoppel Agreement dated February 10, 2012, between Lexington Coal Company and Revelation Energy, LLC;
- (g) Others as owners of the oil, gas, coalbed methane gas, other minerals, and various seams of coal not owned by Pocahontas Development Corporation;
- (h) Norfolk Southern Railway Company, its successors and assigns, for railway rights of way as now located and in use;
- (i) BellSouth Telecommunications, LLC, its successors and assigns, for rights it may have for telephone lines and appurtenances as now located and in use or which may be placed upon the property pursuant to rights presently vested in BellSouth Telecommunications, LLC, its successors and assigns;
- (j) Kentucky Power Company, its successors and assigns, for rights of way for electric power transmission lines and appurtenances as now located and in use or which may be placed upon the property pursuant to rights presently vested in said Kentucky Power Company;
- (k) Commonwealth of Kentucky for the use and benefit of the Transportation Cabinet, and the public for rights of way for public roads as now located and in use;
- (l) Others in any and all transmission lines, pipelines, rights of way, structures, easements and restrictions as may or may not appear of record;
- (m) The public, United States of America, Commonwealth of Kentucky, riparian owners and others, if any, in and to the beds and streams of any and all waterways, tributaries and other drainage systems which may be included within the boundaries of the aforesaid 8,796.63 acres, more or less; and
- (n) Others pursuant to any and all outconveyances of the Surface Estate and/or other interests in and to the Property by Pocahontas Development Corporation, including, but not limited to, that certain unrecorded Deed dated November 5, 2013, from Pocahontas Development Corporation and Appalachian Forests A, LLC to LCC Kentucky, LLC, with Twin Energies, Inc. joining.

III.

RECAPITULATION

Property	Areas in Acres
Kentucky – Main Tract Properties Rouge Steel Properties	50,847.06 8,796.63
TOTAL	59,643.69

NOTHWITHSTANDING THE USE OF COAL OR MINERAL TAX CHARGE OR ID NUMBERS IN THE ABOVE SURFACE DESCRIPTIONS, SUCH REFERENCES ARE ONLY TO PROVIDE BETTER DESCRIPTIONS OF THE CONVEYED SURFACE ESTATES. THE ABOVE DESCRIPTIONS ARE FOR THE SURFACE ESTATES ONLY.

SAR EXHIBIT D



Noise Assessment

Martin County Solar Facility

May 14, 2021

Prepared for:

Martin County Solar Project, LLC

Prepared by:

Stantec Consulting Services, Inc Louisville, Kentucky



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Introduction

1.0 INTRODUCTION

1.1 PROJECT DESCRIPTION

The Martin County Solar Project (Project) is a proposed 200-megawatt (MW) photovoltaic (PV) solar power energy generating facility located in Martin County, Kentucky. The project site is located on approximately 1,053 acres in the northeastern section of the county (Figure 1). The solar project will consist of inverters and a utility interconnection substation. The power generated by the proposed solar facility will be connected to the existing power grid using the transmission line currently traversing the tract. The generating facility will sell power on the wholesale market as a merchant power plant or independent power producer. The solar facility will be enclosed by a six-foot chain-link fence topped with three strands of barbed wire, which will be located at least 50 feet inside of any property boundary. At the end of the project's life the equipment and electrical infrastructure will be removed from the site, and land may return to farming or other development.

A desktop noise assessment was completed to evaluate potential noise impacts to noise sensitive receptors within 1,000 feet from the project boundary (Noise Assessment Area). Background noise as well as noise generated during construction and operation of the Project were considered in the analysis.

1.2 EXISTING LAND USE AND SITE CONDITIONS

The Project is located in a rural mountainous area. Existing land use within the project site is primarily pasture/hay production. (MLRC 2016 and USDA-FSA 2018) Most of the Project has been previously cleared and surface mined for coal. A transmission line and a pipeline both transect the Project site while a railroad runs along the northwest edge of the study area. Land use adjacent to the Project is comprised of scattered homes, forested land, and pastureland. Four cemeteries are located within the Noise Assessment Area.



Noise Study

2.0 NOISE STUDY

2.1 EXISTING NOISE CONDITIONS

2.1.1 Noise Sensitive Receptors

A noise sensitive receptor is generally defined as locations where people reside or where the presence of unwanted sound may adversely affect the use of the land. Receptors may include but are not limited to schools, homes, churches, hospitals, and certain types of recreation or outdoor land uses such as outdoor restaurant seating.

Potential noise sensitive receptors were evaluated within a 1,000 foot buffer from the project boundary. High resolution aerial photography, topographic quadrangles and proposed site layouts were analyzed using ESRI ArcMap 10.7 and Google Earth Pro to determine the presence of potential noise sensitive receptors. These receptors include residential dwellings and cemeteries and are shown on Figure 2. No schools, childcare centers, outdoor recreation, medical centers or other types of noise sensitive receptors were observed.

Ten (10) residences consisting of single family homes are located within the Noise Assessment Area. All dwellings occur along KY-1439 in the northwest corner of the study area. These residences are at a density sufficiently close together to be considered a Neighborhood. The nearest residence is approximately 590 feet from the project boundary (Table 1). Proposed inverters are located even further away with the nearest being more than 1,000 feet from a dwelling. Additionally, an active railroad runs between all ten dwellings and the proposed solar site. Significant topography changes are present onsite and the dwellings are located within a valley more than 200 feet in elevation lower than the proposed solar site. Due to both the horizontal and vertical distance from the proposed site to the residences, and the presence of the nearby railroad, it is likely that noise inputs from the proposed site will be negligible compared to existing background noise.

Four cemeteries are shown on the USGS Topographic Quadrangles and are located within the noise assessment area. Cemeteries can be considered noise sensitive receptors if they exhibit areas of frequent human use. For the purposes of this report, only one cemetery will be considered a noise sensitive receptor as it appears to exhibit characteristics that would indicate frequent human use. The Jude & Fletcher Cemetery is located at the end of Fletcher Jude Cemetery Road on the northeastern portion of the site and has at least three covered shelters including one with picnic tables. The closest shelter appears to be approximately 250 feet from the closest solar panel and approximately 780 feet from the nearest inverter. The other three cemeteries were difficult to evaluate as limited information was available as to their characteristics. It is likely they are small family cemeteries that do not exhibit features that would indicate frequent human use (such as benches). They are located further away toward the edges of the study area and were not further analyzed in this report.



Noise Study

Table 1. Nearest Sensitive Receptor to the Site

Туре	Direction from Project Site	Distance from Property Boundary	Distance from Nearest Solar Panel	Distance from Nearest Inverter or Transformer
Residences – KY- 1439	Northwest of the property boundary	Within 563 ft	Within 590 ft	Within 1,013 ft
Jude & Fletcher Cemetery	Northeast of the property boundary	Within 218 ft	More than 200 ft	Within 779 ft

2.1.2 Existing Noise from Surrounding Areas

The unincorporated portions of Martin County do not appear to have a specific noise ordinance. Noise is typically measured in decibels (dB_A) to describe the relative loudness of specific sounds. See Table 2 for example sound levels from the Centers for Disease Control and Prevention (CDC 2020) and the Federal Railroad Administration (FRA 2010).

Table 2. Common Sources of Noise and Decibel Levels

Noise Source	Average Noise Level (dB _A)*
Loud Entertainment Venues (Nightclubs, Bars and	105 – 110
Rock Concerts)	
Car horn at 16 ft / Sporting Events	100
Motorcycle	95
Locomotives and Rail Cars at 100 feet**	80-90
Gas powered lawnmowers and leaf blowers	80-85
Heavy Traffic	80-85
Washing Machine / Dishwasher	70
Normal Conversation / Air Conditioner	60
Soft Whisper	30

^{*}CDC 2020 **FRA 2010

The primary source of noise from the surrounding area is similar to the Project site with sparse automotive traffic on rural roads and adjacent farms producing agricultural sounds related to tractors, farm machinery, trucks, and ATVs. All residences are located within Wolf Creek valley with nearby noise inputs from road traffic on KY-1439, background noise from flowing water of Wolf Creek as well as periodic noise from the railroad when trains pass through the site. Wildlife and livestock also contribute to the local noise including cattle, insects, birds and frogs.



Noise Study

2.1.3 Existing On-Site Noise

Existing noise on the Project site consists of noises typically produced by agricultural activities. These noises include tractors, trucks, and all-terrain vehicles. Rural wildlife and livestock noises contribute to the existing noise conditions including cattle, birds, frogs and insects.

2.2 HISTORICAL NOISE CONDITIONS

Over the past few decades, the project area as well as much of the surrounding region has undergone coal mining activities in the form of surface mining. General site activities included preparation of the site, construction, development, extraction and reconstruction phases. Notable noise sources included power saws, cranes, drills, excavators, crushers, blasting, dozers, draglines, graders and trucks. Noise levels range from 78 to 118 dBA for this type of equipment, with some operating times of 8 hours of more (Pathak 1996, Giardino and Marraccini 1981, Lee et.al. 2018). Upon review of historical photography, coal mining activities can be observed onsite starting prior to 1985 and ongoing in some capacity at least through 2013 (Google Earth 1985-2019). Other surface mines in the area continue to have ongoing operations.

2.3 PROPOSED CONSTRUCTION NOISE CONDITIONS

2.3.1 Equipment and Machinery

The Project site consists primarily of pasture and hay and only minimal earthmoving and tree removal activities are anticipated during Project construction. Typical construction equipment is expected to be used for site preparation and infrastructure installation and may include dump trucks, pile drivers, backhoes, dozers, and excavators. The Federal Transit Administration outlines typical construction equipment noise levels and is presented in Table 3 (FTA 2018). The Federal Highway Administration (FHWA) Roadway Construction Noise Model (RCNM) was used to evaluate noise during construction (FHWA 2006). Pile drivers are expected to be the loudest machinery and will only be used during installation of the solar panel supports. Since pile drivers will only be used briefly, model results have been presented both with and without pile drivers in use.



Noise Study

Table 3. Construction Equipment Noise Emission Levels

Equipment	Typical Noise Levels at 50 ft from Source (dB _A)*
Air Compressor	80
Backhoe	80
Ballast Equalizer	82
Ballast Tamper	83
Compactor	82
Concrete Mixer	85
Concrete Pump	82
Concrete Vibrator	76
Crane, Derrick	88
Crane, Mobile	83
Dozer	85
Generator	82
Grader	85
Impact Wrench	85
Jack Hammer	88
Loader	80
Paver	85
Pile Driver (Impact)	101
Pile Driver (Sonic)	95
Pneumatic Tool	85
Pump	77
Rail Saw	90
Rock Drill	95
Roller	85
Saw	76
Scarifier	83
Scraper	85
Shovel	82
Spike Driver	77
Tie Cutter	84
Tie Handler	80
Tie Inserter	85
Truck	84

^{*}Taken from FTA 2018

2.3.2 Roadway Noise During Construction

Traffic noise is expected to increase temporarily during construction due to the mobilization of labor and materials, equipment and staff moving between sections of the project and vehicles like dump trucks entering and leaving the site. Construction related activity is expected to occur between 7 a.m. and 9 p.m. and will be of short duration at any given location within the project.



Noise Study

2.3.3 Assembly of Solar Array and Construction of Facilities

The solar facility consists of solar panels, a panel tracking system, inverters and electrical equipment associated with the solar facility and substation. All facility equipment is expected to be assembled using handheld equipment and power tools. Assembly will occur within the Project site several hundred to thousands of feet from the nearest receptors. Assembly will take place during daytime hours and will be of short duration at any given location within the project.

2.4 PROPOSED OPERATIONAL NOISE CONDITIONS

2.4.1 Solar Array and Tracking System

The solar array associated with this project includes single-axis tracking panels distributed evenly across the site (Figure 2). Tracking systems involve the panels being driven by small, 24-volt brushless DC motors to track the arc of the sun to maximize each panel's potential for solar absorption. Panels would turn no more than five (5) degrees every 15 minutes and would operate no more than one (1) minute out of every 15-minute period during daylight hours. These tracking motors are a potential source of mechanical noise and are included in this assessment. Tracking motors will not be installed closer than 100 feet from the fence line. The sound typically produced by panel tracking motors (NexTracker or equivalent) is approximately 78 dB_A. Comparing similar noise values and distances from the RCNM, the tracking system will be approximately 62 dB_A at the nearest receptor.

2.4.2 Inverters

Approximately 71 inverters are expected to be installed across the Project site. Inverters installed onsite are expected to be SMA PCS or GE LV5 PCS similar. Manufacturer's specifications for the equipment include a range of noise emission for SMA PCS from 49 dB_A at 50 meters (164 feet) distance to 67 dB_A at 10 meters (32.8 feet) from the source which roughly translates to 35 dB_A at the nearest receptor. The GE LV5 PCS ranges from 73.6 dB_A at lowest cooling level to 91.3 dB_A at highest cooling levels at 10 meters (32.8 feet) from the source. The noise produced by the inverters can be characterized as a hum and during average operation is similar in noise level to a household air conditioner. Proposed inverter locations are shown on Figure 2. In the event that these inverters have to be moved, they will not be placed any closer than currently depicted.

2.4.3 Transformers

A 5.4 acre substation is currently present on the north end of the site and will be utilized by the proposed solar facility. Battery storage will be installed in two locations totaling 6.6 acres near the existing substation. Transformers associated with the project will include a SBG-SMIT 3 phase 630 kVA transformer or similar. According to manufacturer specifications the loudest the transformer is expected to be is just over 60 dB_A, measured 1 meter (3.2 feet) from the source, or the level of a normal conversation. The nearest sensitive receptor to the substation and battery storage area is approximately 4,000 feet away.



Noise Study

2.4.4 Site Operation and Maintenance

2.4.4.1 Vehicular Traffic

During operation, the solar facility is expected to have a maximum of one technician visiting the site daily for inspection and two to three technicians up to 70 days per year. Operation and maintenance work may proceed at night for up to 30 days per year. Weekend work is not anticipated but may be required upon any component outages that may impact energy production from the site. Other than the scenarios mentioned, vehicular traffic onsite will be limited to typical weekday business hours. Technicians will drive mid- or full-sized trucks and will not contribute noticeably to the existing traffic noise levels.

2.4.4.2 Maintenance Activities

Typical maintenance activities may include inspection, minor repair and maintenance on the solar panels, the tracking system, wiring, and/or inverters. Grounds maintenance will include periodic inspection of the boundary fencing and vegetation control through mowing and herbicide applications.



Noise Study

2.5 NOISE SUMMARY AND CONCLUSIONS

Noise is expected to increase temporarily and intermittently during the construction phase of the project due to increases in vehicular traffic, construction equipment and assembly of the solar facility components. This increase in noise is expected to be within accepted ranges and of short duration at any given location within the project with the majority of the noise producing activities to occur many hundreds to thousands of feet from the nearest noise sensitive receptors and at significantly higher elevations. The typical noise levels of construction equipment are not unlike the existing noise levels related to livestock operations within and surrounding the Project. Additionally, construction noise levels are expected to be of shorter duration and lower than historical coal mining activities on site since. The noisiest portion of the construction includes the use of pile drivers to install the solar panel supports. These will only be used very briefly (approximately 30 seconds to 1 minute per pile) and the worst-case maximum noise [L_{max} (dB_A)] expected to occur at the nearest receptor (Jude & Fletcher Cemetery) is 88 dB_A which is similar to a train at 100 ft. The equivalent continuous sound level [Leq (dBA)] from construction including the pile driver is 81.2 dB_A which is similar to a lawnmower or heavy traffic at 100 ft. The model was also evaluated without the inputs of the pile driver since that is more typical of ongoing construction sound levels. The sound levels for typical construction onsite ranges from a dishwasher to heavy traffic in similarity (Table 4). Construction activities at the Project site would move around the site and are not anticipated to be performed near a sensitive receptor for more than a few days or weeks.

Table 4. Calculated Noise Levels at Nearest Receptor Due to Construction

	Distance (ft)	Calculated L _{max} (dB _A)	Calculated L_{eq} (dB _A)
Noise Level at Nearest Receptor - Cemetery (including pile driver)	218	88	81.2
Noise Level at Nearest Receptor – Cemetery (minus pile driver)	218	67.8	65.2
Noise Level at Nearest Residential Receptor (including pile driver)	563	79.8	72.9
Noise Level at Nearest Residential Receptor (minus pile driver)	563	59.5	57.0

During site operation, intermittent noise related to the panel tracking system and the constant noise of the inverters is expected. The increase in noise is negligible due to the distance between the panels / inverters and the nearest noise sensitive receptors. The nearest receptor is more than 200 feet from any solar panels and approximately 780 feet from an inverter. Sound levels from the tracking system can be expected to be the levels of a normal conversation at the nearest receptor (~62 dB_A), while the sounds will be much quieter at most receptors. It should be noted that the trackers and the inverters for the panels themselves will not operate at night when residential receptors are most sensitive. During average daytime operation, the inverters will be similar in noise level (~35 dB_A) to a soft whisper at the nearest receptor. According to manufacturer specifications the loudest the transformer is expected to be is just over 60 dB_A at 1m from the source, or the level of a normal conversation. Since the nearest receptor is approximately 4,000ft from the substation/battery storage sites, transformers are not expected to add



Noise Study

additional noise above background noise. Site visits and maintenance activities including single vehicular traffic and mowing will be negligible as they are similar to the background agricultural noise characteristics. All site visits, outside of emergency maintenance, will occur during daylight hours.

Table 5. Approximate Noise Levels at Nearest Receptor During Operation

	Panel Tracking System		Inver	ter	Transfo	ormer	Operation & Maintenance (Automobile)		
	Distance (ft)	dB₄	Distance (ft)	dB₄	Distance (ft)	dB₄	Distance (ft)	dB _A	
Nearest Receptor - Cemetery	334	62	779	35	3,950	<10	218	58	
Nearest Residential Receptor	670	55	1,013	33	3,740	<10	563	50	
Note	Operates 1 minute every 15 minutes during daylight hours		Continuous	low hum	Only two located		Typical - Pickup truck in various locations only during business hours		

At the nearest receptors no elevated and prolonged noise levels above background levels are expected either during construction or operation of the Project site.



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Appendix A Figures

Appendix A FIGURES



SAR EXHIBIT E



Martin County Solar Traffic Impact Study

February 23, 2021

Prepared for:

Prepared by:

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Executive Summary

Martin County solar facility development is proposed for a property located south of KY 2032 and north of the Pike and Martin County Line and east of KY 1439 and west of KY 1714. The petitioner proposes to utilize the existing land to establish a solar facility on the site which is approximately 2,600 acres in size. The development will have a primary access point along KY 1439 near the railroad crossing and a second access point that would provide access to KY 1714 north of Lick Bridge. Analyses of the 2021 existing conditions and the 2022 construction year were performed. The traffic impact study (TIS) evaluated the operating conditions for the AM and PM peak hours at the following six roadway segments:

- Station 080255: KY 1714 from KY 3407 (MP 7.162) to KY 2032 (MP 5.150)
- Station 080256: KY 1714 from KY 2032 (MP 5.150) to Big Peter Cave Road (MP 3.665)
- Station 080257: KY 1714 from Big Peter Cave Road (MP 3.665) to Pigeon Roost Road (MP 0.000)
- Station 080261: KY 1439 from KY 2032 (MP 10.733) to MP 9.630
- Station 080262: KY 1439 from MP 9.630 to Schoolhouse Hollow (MP 1.704)
- Station 080506: KY 1439 from Schoolhouse Hollow (MP 1.704) to Pike/Martin County Line (MP 0.000)

Based on the results of the analysis, the following conclusions were developed:

- During construction, all highway segments are anticipated to continue to operate at acceptable level of service (LOS) standards during both the peak hours. Therefore, the construction for this project will not adversely affect traffic operations on KY 1714 or KY 1439.
- After construction is complete, the future traffic demand related to this project will be less than a
 typical single-family home. This additional volume of daily traffic is considered negligible and the
 operational phase of the project will have no measurable impact on the traffic and/or transportation
 infrastructure.



i

INTRODUCTION

1.0 INTRODUCTION

The purpose of this study is to estimate the traffic impacts of the proposed Martin County Solar Facility in Martin County, Kentucky. The project site is located south of KY 2032 and north of the Pike and Martin County Line and east of KY 1439 and west of KY 1714. The proposed project site is shown in **Figure 1**.

The property, which is just under 2,600 acres, currently mainly serves recreational and agricultural land uses. The petitioner proposes to utilize the existing land to establish a solar facility. The development will have a primary access point along KY 1439 near the railroad crossing and a second access point that would provide access to KY 1714 north of Lick Bridge. A construction year of 2022 was evaluated as part of the study.

2.0 DATA COLLECTION

Twenty-four-hour count and classification data were obtained from Kentucky Transportation Cabinet (KYTC) to establish the existing traffic conditions. **Figure 2** shows the locations of the six count stations used in this analysis. The summarized count data for each of these stations is included in **Appendix A** for the following count stations:

- Station 080255: KY 1714 from KY 3407 (MP 7.162) to KY 2032 (MP 5.150)
- Station 080256: KY 1714 from KY 2032 (MP 5.150) to Big Peter Cave Road (MP 3.665)
- Station 080257: KY 1714 from Big Peter Cave Road (MP 3.665) to Pigeon Roost Road (MP 0.000)
- Station 080261: KY 1439 from KY 2032 (MP 10.733) to MP 9.630
- Station 080262: KY 1439 from MP 9.630 to Schoolhouse Hollow (MP 1.704)
- Station 080506: KY 1439 from Schoolhouse Hollow (MP 1.704) to Pike/Martin County Line (MP 0.000)

(

DATA COLLECTION

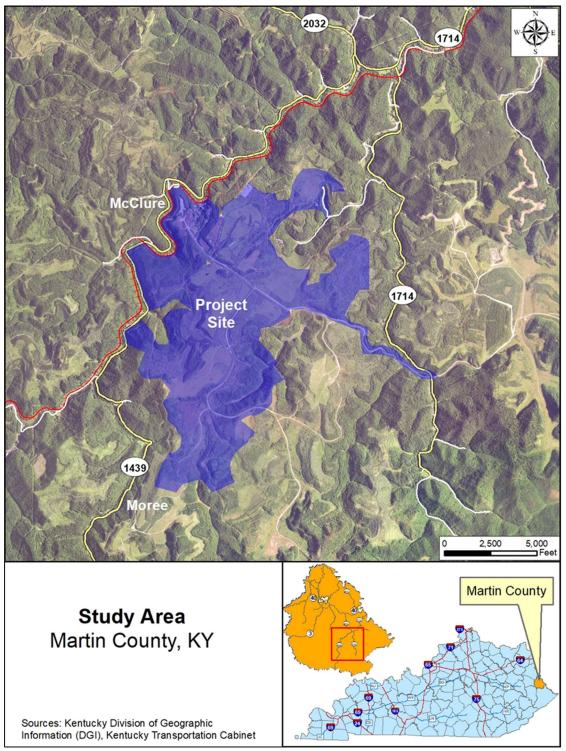


Figure 1 Project Location



DATA COLLECTION

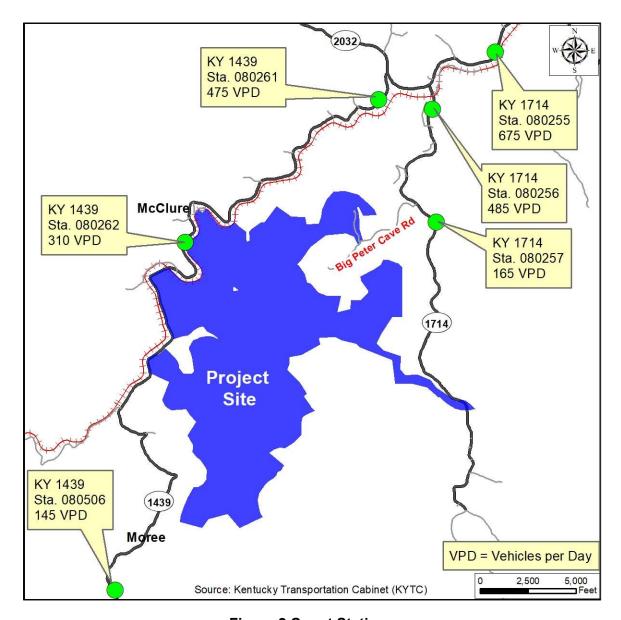


Figure 2 Count Stations

One major roadway is adjacent to this project. KY 1714 from KY 2032 to KY 3407 is a two-lane roadway which is functionally classified as rural major collector with a posted speed limit of 55 mph. KY 1714 from KY 2032 to Pigeon Roost Road is a two-lane roadway which is functionally classified as a rural local street. KY 1439, north of Middle Fork Work Creek, is a functionally classified as rural minor collector with a posted speed limit of 55 mph. KY 1439 between the Pike/Martin County Line and Middle Fork Wolf Creek is functionally classified as a rural local street with a posted speed limit of 55 mph.



DATA COLLECTION

Two-lane highway analysis was used to evaluate the roadways using Highway Capacity Software (HCS 7), and the results can be found in **Appendix B**. Two-lane highway analysis estimates capacity and Level of Service (LOS) for given traffic and geometric conditions. LOS provides a measure describing the quality of traffic flow provided by a roadway facility, expressed in terms of letter grades with LOS A representing the highest quality traffic flow and minimal delay, and LOS F representing poor traffic operations and significant delay. The two-lane highways method utilizes follower density (followers/mile) as the service measure for LOS.

The results of the existing traffic AM peak-hour two-lane analyses are summarized in **Table 1**. The results of the existing traffic PM peak-hour two-lane analyses are summarized in **Table 2**. The tables indicate that all highways currently operate at acceptable level-of-service standards during both the AM and PM peak hours.

Table 1 Existing AM Two-Lane Highway Analysis

	Existing			
Segment	Density (followers/mi)	LOS		
KY 1439 at:				
KY 2032 to MP 9.630	0.0	Α		
MP 9.630 to Railroad Crossing	0.0	Α		
Railroad Crossing to MP 3.600	0.0	Α		
KY 1714 at:				
KY 3407 to KY 2032	0.0	Α		
KY 2032 to Big Peter Cave Road	0.0	А		
Big Peter Cave Road to MP 1.223	0.0	Α		
MP 1.223 to Pigeon Roost Road	0.0	Α		



DATA COLLECTION

Table 2 Existing PM Two-Lane Highway Analysis

	Existing	j		
Segment	Density (followers/mi)	LOS		
KY 1439 at:				
KY 2032 to MP 9.630	0.1	Α		
MP 9.630 to Railroad Crossing	0.0	Α		
Railroad Crossing to MP 3.600	0.0	Α		
KY 1714 at:				
KY 3407 to KY 2032	0.1	Α		
KY 2032 to Big Peter Cave Road	0.1	Α		
Big Peter Cave Road to MP 1.223	0.0	Α		
MP 1.223 to Pigeon Roost Road	0.0	Α		



PROJECT TRIP GENERATION

3.0 PROJECT TRIP GENERATION

3.1 CONSTRUCTION

The trip generation analysis for this project is based on the number of workers and the associated construction and delivery truck trips expected during the construction of the project. Construction workers will consist of laborers, equipment operators, electricians, supervisory personnel, support personnel, and construction management personnel. It is envisioned that workers will arrive/depart from passenger vehicles and trucks daily during the AM (7:00-9:00 AM) and PM (3:00-6:00 PM) peak hours. Equipment deliveries will occur on trailers, flatbeds, or other large vehicles at various times during the day. To account for the temporary increased demand on the roadways, the current traffic volumes were doubled for construction AM and PM peak hours. The construction of the proposed facility will take from eight to twelve months to complete.

3.1.1 CONSTRUCTION ANALYSIS

The construction year analysis assumed the same roadway geometry that was used for the analysis of existing conditions. The results of the construction year for the AM peak-hour two-lane analysis are summarized in **Table 3**. The results of the construction year for the PM peak-hour two-lane is summarized in **Table 4**. The tables indicate that all highway segments are anticipated to continue to operate at acceptable LOS standards during construction for both peak hours. Therefore, the construction for this project will not adversely affect the operation of KY 1714 and KY 1439.

Table 3: Construction AM Two-Lane Highway Analysis

	Construction				
Segment	Density (followers/mi)	LOS			
KY 1439 at:					
KY 2032 to MP 9.630	0.1	А			
MP 9.630 to Railroad Crossing	0.1	Α			
Railroad Crossing to MP 3.600	0.1	Α			
KY 1714 at:					
KY 3407 to KY 2032	0.1	Α			
KY 2032 to Big Peter Cave Road	0.1	Α			
Big Peter Cave Road to MP 1.223	0.0	А			
MP 1.223 to Pigeon Roost Road	0.0	Α			



PROJECT TRIP GENERATION

Table 4: Construction PM Two-Lane Highway Analysis

	Constru	ction		
Segment	Density (followers/mi)	LOS		
KY 1439 at:				
KY 2032 to MP 9.630	0.3	Α		
MP 9.630 to Railroad Crossing	0.1	Α		
Railroad Crossing to MP 3.600	0.1	Α		
KY 1714 at:				
KY 3407 to KY 2032	0.4	Α		
KY 2032 to Big Peter Cave Road	0.3	Α		
Big Peter Cave Road to MP 1.223	0.1	Α		
MP 1.223 to Pigeon Roost Road	0.0	А		

3.2 OPERATION

Once operational, the facility will only have to be managed and monitored. Therefore, it is envisioned that the facility will have one employee on site every day and up to three additional employees for 70 days a year for site inspections and repair. Operations workers are expected to commute to and from the project site individually during the peak AM and PM hours. Work can also be conducted at night up to thirty days a year. This additional volume of daily traffic is considered negligible and the operational phase of the project will have no measurable impact on the traffic and/or transportation infrastructure.



CONCLUSION

4.0 CONCLUSION

As demonstrated in the traffic analysis, the construction period trip generation of workers and trucks will not generate a significant number of trips on local roadways. KY 1714 and KY 1439 will continue to operate at a LOS A during the scenario of when traffic is doubled during construction peak traffic. Although no significant, adverse traffic impacts are expected during project construction or operation, using mitigation measures such as ridesharing between construction workers, using appropriate traffic controls, or allowing flexible working hours outside of peak hours could be implemented to minimize any potential for delays during the AM and PM peak hours.



Appendix A

Appendix A

TRAFFIC COUNTS AND CLASSIFICATION DATA

Short-term Hourly Traffic Volume for 05/13/201 through 05/15/2019

Seasonal Factor Grp: 2 Site names: 080255 Daily Factor Grp: 2 County: Martin Funct Class: R Major Collector Axle Factor Grp: 07 080-KY-1714 -000 @ 6.100 From: KY 1439 To: KY 3407 (EMILY Growth Factor Grp: 07 Location:

	Sun, May 12, 2019		2, 2019	Мо	n, May 13	, 2019	Tue	e, May 14	, 2019	Wed	d, May 15	, 2019	Thu	ı, May 16	, 2019	Fri, May 17, 2019			Sat, May 18, 2019		
	Road	Pos	Neg	Road	Pos	Neg	Road	Pos	Neg	Road	Pos	Neg	Road	Pos	Neg	Road	Pos	Neg	Road	Pos	Neg
00:00							8			8											
01:00							3			6											1
02:00							4			6											
03:00							8			12											<u> </u>
04:00							13			12											<u> </u>
05:00							17			19											
06:00							32			28											1
07:00							40			41											
08:00							40			33											1
09:00							35			24											<u> </u>
10:00							23			33											<u> </u>
11:00							29			32											1
12:00							40			33											<u> </u>
13:00							48			45											<u> </u>
14:00				38			45														1
15:00				58			78														<u> </u>
16:00				89			65														<u> </u>
17:00				58			53														1
18:00				36			43														<u> </u>
19:00				29			40														<u> </u>
20:00				27			43														1
21:00				20			29														<u> </u>
22:00				17			23														<u> </u>
23:00				10			13														
Total				382			772			332											
AM Peak Vol							44			47											
AM Peak Fct							.786			.904											<u></u>
AM Peak Hr							8: 30			6: 45											<u> </u>
PM Peak Vol							78														<u> </u>
PM Peak Fct							.65														
PM Peak Hr							15: 00			:											
Seasonal Fct				.931			.931			.931				-							
Daily Fct				1.025			.977			.982											
Axle Fct				.493			.493			.493		-			-						
Pulse Fct				2.000			2.000			2.000		·			·						

Created 01/27/2021 4:25 PM ROAD AADT 675 NDIR AADT 0 PDIR AADT 0 DV03S: Page 1 of 1

Short-term Hourly Traffic Volume for 04/07/201 through 04/09/2015

Seasonal Factor Grp: 2 Site names: 080256 Daily Factor Grp: County: Martin 2 Funct Class: R Local System Axle Factor Grp: 09 080-KY-1714 -000 @ 4.900 From: BIG PETER CAVE ROAD To: Growth Factor Grp: 09 Location:

	S	un, Apr 5,	2015	Mo	on, Apr 6,	2015	Τι	ıe, Apr 7,	2015	We	ed, Apr 8	2015	Th	nu, Apr 9,	2015	Fr	ri, Apr 10,	2015	Sa	t, Apr 11,	2015
	Road	Pos	Neg	Road	Pos	Neg	Road	Pos	Neg	Road	Pos	Neg	Road	Pos	Neg	Road	Pos	Neg	Road	Pos	Neg
00:00										1			2								
01:00										2			4								
02:00										1			2								
03:00										1			3								<u> </u>
04:00										11			10								
05:00										28			29								
06:00										24			21								<u> </u>
07:00										30			30								
08:00										23			21								
09:00										24			19								
10:00										24			18								
11:00										24			28								
12:00							29			32											
13:00							35			28											
14:00							27			25											
15:00							40			37											
16:00							41			50											
17:00							74			63											
18:00							30			32											
19:00							25			26											
20:00							26			17											
21:00							10			7											
22:00							11			3											<u> </u>
23:00							3			3											1
Total							351			516			187								
AM Peak Vol							0			30			30								
AM Peak Fct							0			1			1								
AM Peak Hr							:			7: 00			7: 00								<u> </u>
PM Peak Vol							74			63			0								<u> </u>
PM Peak Fct							1			1			0								<u> </u>
PM Peak Hr							17: 00			17: 00			:								
Seasonal Fct							.972			.972			.972								
Daily Fct							1.008			.961			.950								<u> </u>
Axle Fct							.486			.486			.486								<u> </u>
Pulse Fct							2.000			2.000			2.000								1

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Short-term Hourly Traffic Volume for 04/17/201 through 04/19/2017

Seasonal Factor Grp: 2 Site names: 080257 Daily Factor Grp: County: Martin 2 Funct Class: R Local System Axle Factor Grp: 09 Growth Factor Grp: 09 Location: 080-KY-1714 -000 @ 3.400 From: CANEY FORK RD/PIGEON

	Su	ın, Apr 16	, 2017	Mo	on, Apr 17	, 2017	Tue	e, Apr 18,	2017	We	d, Apr 19	, 2017	Th	u, Apr 20,	2017	Fr	i, Apr 21,	2017	Sa	t, Apr 22,	2017
	Road	Pos	Neg	Road	Pos	Neg	Road	Pos	Neg	Road	Pos	Neg	Road	Pos	Neg	Road	Pos	Neg	Road	Pos	Neg
00:00							0			2											
01:00							1			1											
02:00							0			0											·
03:00							2			2											·
04:00							2			2											·
05:00							8			9											1
06:00							7			8											
07:00							9			10											·
08:00							5			3											
09:00							7			7											·
10:00							10			6											·
11:00							11			7											·
12:00				15			5														
13:00				9			9														
14:00				14			10														
15:00				9			9														·
16:00				17			18														·
17:00				17			13														1
18:00				10			6														
19:00				9			5														
20:00				8			12														
21:00				7			12														
22:00				5			2														
23:00				0			0														
Total				120			163			57											
AM Peak Vol				0			11			10											
AM Peak Fct				0			1			1											
AM Peak Hr				:			11: 00			7: 00											
PM Peak Vol				17			18			0											
PM Peak Fct				1			1			0											
PM Peak Hr				16: 00			16: 00			:											
Seasonal Fct				.969			.969			.969											
Daily Fct				.998			.976			.987											
Axle Fct				.486			.486			.486											
Pulse Fct				2.000			2.000			2.000											i

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Short-term Hourly Traffic Volume for 04/28/202 through 04/30/2020

Seasonal Factor Grp: 2 Site names: 080257 County: Martin Daily Factor Grp: 2 Funct Class: R Local System Axle Factor Grp: 09 080-KY-1714 -000 @ 3.400 From: CANEY FORK RD/PIGEON Growth Factor Grp: 09 Location:

	Sı	ın, Apr 26	, 2020	Mo	on, Apr 27,	2020	Tue	e, Apr 28,	2020	We	d, Apr 29	, 2020	Thu	u, Apr 30,	2020	Fı	ri, May 1,	2020	Sa	at, May 2,	2020
	Road	Pos	Neg	Road	Pos	Neg	Road	Pos	Neg	Road	Pos	Neg	Road	Pos	Neg	Road	Pos	Neg	Road	Pos	Neg
00:00										0			2								
01:00										0			2								
02:00										0			0								
03:00										3			2								
04:00										1			1								
05:00										7			3								1
06:00										6			3								1
07:00										13			8								
08:00										4			7								1
09:00										12			5								
10:00										2			8								
11:00										9			14								1
12:00										21			11								
13:00										16			13								
14:00										18			11								1
15:00										25			18								
16:00										22			11								1
17:00										21			12								1
18:00							17			24											1
19:00							14			10											1
20:00							19			13											
21:00							15			11											1
22:00							5			10											<u> </u>
23:00							0			1											
Total							70			249			131								
AM Peak Vol										13			14								<u> </u>
AM Peak Fct										.361			.875								1
AM Peak Hr										6: 45			11: 00								1
PM Peak Vol										27											
PM Peak Fct										.563											
PM Peak Hr										18: 30			:								
Seasonal Fct							.964			.964			.964								
Daily Fct							.967			.952			.939								
Axle Fct							.500			.500			.500								
Pulse Fct							2.000			2.000			2.000	·							

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Short-term Hourly Traffic Volume for 05/13/201 through 05/15/2019

Seasonal Factor Grp: 2 Site names: 080261 County: Martin Daily Factor Grp: 2 Funct Class: R Minor Collector Axle Factor Grp: 80 080-KY-1439 -000 @ 10.400 From: BIG CROOKED ROAD To: KY 80 Location: Growth Factor Grp:

	Su	n, May 12	2, 2019	Mor	n, May 13	, 2019	Tue	e, May 14,	2019	Wed	I, May 15	, 2019	Th	nu, May 16	, 2019	Fr	i, May 17,	2019	Sa	t, May 18,	, 2019
	Road	Pos	Neg	Road	Pos	Neg	Road	Pos	Neg	Road	Pos	Neg	Road	Pos	Neg	Road	Pos	Neg	Road	Pos	Neg
00:00							7	6	1	4	2	2									
01:00							2	1	1	1	1	o									
02:00							5	5	0	7	6	1									
03:00							2	2	O	3	2	1									
04:00							12	7	5	8	5	3									
05:00							19	3	16	25	6	19									
06:00							45	17	28	35	12	23									
07:00							30	25	5	35	25	10									
08:00							16	8	8	20	11	9									
09:00							22	11	11	11	9	2									
10:00							15	11	4	15	7	8									
11:00							23	10	13	23	11	12									
12:00							22	6	16	16	6	10									
13:00							21	14	7	19	11	8									
14:00				30	15	15	30	13	17												
15:00				55	24	31	53	29	24												
16:00				68	42	26	54	29	25												
17:00				35	15	20	37	18	19												
18:00				20	5	15	35	9	26												
19:00				21	12	9	15	4	11												
20:00				15	6	9	36	25	11												
21:00				19	6	13	17	9	8												
22:00				5	3	2	5	3	2												
23:00				6	3	3	11	7	4												
Total				274	131	143	534	272	262	222	114	108									
AM Peak Vol							45	33	29	38	27	26									
AM Peak Fct							.703	.75	.659	.731	.75	.929									
AM Peak Hr							6: 00	6: 45	5: 45	6: 45	6: 45	5: 45									
PM Peak Vol							63	39	27												
PM Peak Fct							.875	.65	.675												
PM Peak Hr							15: 30	15: 15	17: 45	:	:	:									
Seasonal Fct				.931	.931	.931	.931	.931	.931	.931	.931	.931									
Daily Fct				1.025	1.025	1.025	.977	.977	.977	.982	.982	.982									
Axle Fct				.500	.500	.500	.500	.500	.500	.500	.500	.500									
Pulse Fct				2.000	2.000	2.000	2.000	2.000	2.000	2.000	2.000	2.000									

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Short-term Hourly Traffic Volume for 04/28/202 through 04/30/2020

Seasonal Factor Grp: 2 Site names: 080262 Daily Factor Grp: County: Martin 2 Funct Class: R Minor Collector Axle Factor Grp: 80 080-KY-1439 -000 @ 7.300 From: ROBINSON SCOTT Growth Factor Grp: 80 Location:

	Sı	ın, Apr 26	, 2020	Мс	on, Apr 27,	2020	Tue	e, Apr 28,	2020	Wee	d, Apr 29	, 2020	Thu	u, Apr 30,	2020	Fı	ri, May 1, 2	2020	Sa	at, May 2,	2020
	Road	Pos	Neg	Road	Pos	Neg	Road	Pos	Neg	Road	Pos	Neg	Road	Pos	Neg	Road	Pos	Neg	Road	Pos	Neg
00:00										1			0								
01:00										0			1								1
02:00										2			8								1
03:00										4			1								
04:00										7			10								1
05:00										11			22								1
06:00										11			16								1
07:00										20			31								1
08:00										10			8								
09:00										18			32								1
10:00										21			36								1
11:00										34			23								1
12:00										23			12								1
13:00										31			20								1
14:00										17			20								1
15:00										30			22								
16:00										28			26								1
17:00										23			20								1
18:00							16			25											
19:00							18			14											1
20:00							20			16											
21:00							5			4											1
22:00							0			7											<u> </u>
23:00							4			2											
Total							63			359			308								
AM Peak Vol										34			46								
AM Peak Fct										.447			.523								<u></u>
AM Peak Hr										11: 00			9: 45								<u> </u>
PM Peak Vol										36											
PM Peak Fct										.563											
PM Peak Hr										16: 15			:								
Seasonal Fct							.964			.964			.964								
Daily Fct							.967			.952			.939								
Axle Fct							.494			.494			.494								
Pulse Fct							2.000			2.000			2.000								

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Short-term Hourly Traffic Volume for 05/09/201 through 05/11/2017

Seasonal Factor Grp: 2 Site names: 080262 2 County: Martin Daily Factor Grp: Funct Class: R Minor Collector Axle Factor Grp: 80 080-KY-1439 -000 @ 7.300 From: ROBINSON SCOTT Growth Factor Grp: 80 Location:

	Sı	un, May 7,	2017	Мс	on, May 8,	2017	Tu	e, May 9,	2017	Wed	d, May 10	, 2017	Thu	ı, May 11	, 2017	Fr	i, May 12,	2017	Sa	t, May 13	, 2017
	Road	Pos	Neg	Road	Pos	Neg	Road	Pos	Neg	Road	Pos	Neg	Road	Pos	Neg	Road	Pos	Neg	Road	Pos	Neg
00:00										2			3								
01:00										1			0								
02:00										0			2								
03:00										2			3								
04:00										4			4								
05:00										9			8								
06:00										8			8								
07:00										22			24								<u> </u>
08:00										24			9								
09:00										23			11								
10:00										14			13								
11:00										15			12								
12:00							20			22											
13:00							20			22											
14:00							20			21											
15:00							12			25											
16:00							32			31											
17:00							17			36											
18:00							31			18											
19:00							11			21											
20:00							31			14											
21:00							9			14											
22:00							6			9											
23:00							0			6											
Total							209			363			97								
AM Peak Vol							0			24			24								
AM Peak Fct							0			1			1								
AM Peak Hr							:			8: 00			7: 00								
PM Peak Vol							32			36			0								
PM Peak Fct							1			1			0								
PM Peak Hr							16: 00			17: 00											
Seasonal Fct							.955			.955			.955								
Daily Fct							1.003			.995			.953								
Axle Fct							.489			.489			.489								
Pulse Fct							2.000			2.000			2.000								

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Short-term Hourly Traffic Volume for 04/17/201 through 04/19/2017

Seasonal Factor Grp: 2 Site names: 080506 County: Martin Daily Factor Grp: 2 Funct Class: R Local System Axle Factor Grp: 09 080-KY-1439 -000 @ 1.600 From: PIKE COUNTY LINE To: Growth Factor Grp: 09 Location:

	Sı	ın, Apr 16	, 2017	Mo	on, Apr 17,	2017	Tu	e, Apr 18,	, 2017	We	d, Apr 19	, 2017	Th	u, Apr 20	, 2017	Fr	ri, Apr 21,	2017	Sa	at, Apr 22,	2017
	Road	Pos	Neg	Road	Pos	Neg	Road	Pos	Neg	Road	Pos	Neg	Road	Pos	Neg	Road	Pos	Neg	Road	Pos	Neg
00:00							2			0											
01:00							0			1											<u> </u>
02:00							1			0											
03:00							1			3											
04:00							1			1											
05:00							6			5											
06:00							6			7											
07:00							6			3											
08:00							11			14											
09:00							9			4											
10:00							9			9											
11:00				9			12														
12:00				7			8														
13:00				15			14														
14:00				9			6														
15:00				5			13														
16:00				17			24														
17:00				13			9														
18:00				5			7														
19:00				0			4														<u> </u>
20:00				8			8														
21:00				5			1														
22:00				5			3														
23:00				1			0														
Total				99			161			47											
AM Peak Vol				0			12			0											
AM Peak Fct				0			1			0											
AM Peak Hr				:			11: 00			:											
PM Peak Vol				17			24			0											
PM Peak Fct				1			1			0											
PM Peak Hr				16: 00			16: 00			:											
Seasonal Fct				.969			.969			.969											
Daily Fct				.998			.976			.987											
Axle Fct				.486			.486			.486											
Pulse Fct				2.000			2.000			2.000											

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Short-term Hourly Traffic Volume for 04/28/202 through 04/30/2020

Seasonal Factor Grp: 2 Site names: 080506 County: Martin Daily Factor Grp: 2 Funct Class: R Local System Axle Factor Grp: 09 080-KY-1439 -000 @ 1.600 From: PIKE COUNTY LINE To: Growth Factor Grp: 09 Location:

	Sı	Sun, Apr 26, 2020 Mon, Apr 27, 2020 d Pos Neg Road Pos Ne					Tu	e, Apr 28,	2020	We	d, Apr 29	, 2020	Th	u, Apr 30,	2020	F	ri, May 1, :	2020	Sa	at, May 2,	2020
	Road	Pos	Neg	Road	Pos	Neg	Road	Pos	Neg	Road	Pos	Neg	Road	Pos	Neg	Road	Pos	Neg	Road	Pos	Neg
00:00										0			0								
01:00										0			0								
02:00										0			3								
03:00										0			0								
04:00										1			2								
05:00										8			1								
06:00										5			13								
07:00										5			5								<u> </u>
08:00										2			2								
09:00										17			9								
10:00										19			23								
11:00										20			13								
12:00										26			6								
13:00										12			14								
14:00										22			10								
15:00										12			13								
16:00										13			12								
17:00										10			17								
18:00							22			15											
19:00							17			2											
20:00							8			9											
21:00							5			0											
22:00							0			2											
23:00							6			0											
Total							58			200			143								
AM Peak Vol										22			23								
AM Peak Fct										.458			.523								
AM Peak Hr										9: 45			10: 00								
PM Peak Vol										26											
PM Peak Fct										.722											
PM Peak Hr										12: 00			:								
Seasonal Fct							.964			.964			.964								
Daily Fct							.967			.952			.939								
Axle Fct							.500			.500			.500								
Pulse Fct							2.000			2.000			2.000								

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MARTIN COUNTY SOLAR TRAFFIC IMPACT STUDY

Appendix B

Appendix B

HCS FILES



Hourly Classification Count and Percent Distribution April 07, 2015 Road

Site names: 080253 Seasonal Factor Grp: 2
County: Martin Daily Factor Grp: 2
Funct Class: R Major Collector Axle Factor Grp: 07
Location: 080-KY-1714 -000 @ 10.200 From: BUCK BRANCH ROAD To: KY Growth Factor Grp: 07

	MC	CAR	PU	BUS	2D	SU 3	SU 4+	ST 4-	ST 5	ST 6+	MT 5-	MT 6	MT 7+	NA	UNCLS	Total	Single	Combo	Trucks
13	0	66 72.53%	22 24.18%	1 1.10%	0	0	0	1 1.10%	0	0	0	0	0	0	1 1.10%	91 100.00	1 1.10%	1	2 2.20%
14	0 0.00%	87 63.97%	41 30.15%	1 0.74%	5 3.68%	2 1.47%	0 0.00%	0	0	0 0.00%	0	0	0 0.00%	0	0 0.00%	136 100.00	8 5.88%	0 0.00%	8 5.88%
15	0	68	23	2	2	2	0	2	0	0	0	0	0	0	0	99	6	2	8
	0.00%	68.69%	23.23%	2.02%	2.02%	2.02%	0.00%	2.02%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	100.00	6.06%	2.02%	8.08%
16	0	78	34	1	3	0	0	2	1	0	0	0	0	0	0	119	4	3	7
	0.00%	65.55%	28.57%	0.84%	2.52%	0.00%	0.00%	1.68%	0.84%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	100.00	3.36%	2.52%	5.88%
17	0	67	28	0	1	1	0	2	6	2	0	0	0	0	0	107	2	10	12
	0.00%	62.62%	26.17%	0.00%	0.93%	0.93%	0.00%	1.87%	5.61%	1.87%	0.00%	0.00%	0.00%	0.00%	0.00%	100.00	1.87%	9.35%	11.21%
18	0	60	24	0	1	0	0	1	0	0	0	0	0	0	0	86	1	1	2
	0.00%	69.77%	27.91%	0.00%	1.16%	0.00%	0.00%	1.16%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	100.00	1.16%	1.16%	2.33%
19	0	59	11	0	0	0	0	0	0	0	0	0	0	0	0	70	0	0	0
	0.00%	84.29%	15.71%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	100.00	0.00%	0.00%	0.00%
20	0	46	11	0	0	0	0	0	0	0	0	0	0	0	0	57	0	0	0
	0.00%	80.70%	19.30%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	100.00	0.00%	0.00%	0.00%
21	0	31	4	0	0	0	0	0	0	0	0	0	0	0	0	35	0	0	0
	0.00%	88.57%	11.43%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	100.00	0.00%	0.00%	0.00%
22	0	21	2	0	0	0	0	0	0	0	0	0	0	0	0	23	0	0	0
	0.00%	91.30%	8.70%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	100.00	0.00%	0.00%	0.00%
23	0	4	2	0	0	0	0	1	0	0	0	0	0	0	0	7	0	1	1
	0.00%	57.14%	28.57%	0.00%	0.00%	0.00%	0.00%	14.29%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	100.00	0.00%	14.29%	14.29%
Total	0	587	202	5	12	5	0	9	7	2	0	0	0	0	1	830	22	18	40
	0.00%	70.72%	24.34%	0.60%	1.45%	0.60%	0.00%	1.08%	0.84%	0.24%	0.00%	0.00%	0.00%	0.00%	0.12%	100.00	2.65%	2.17%	4.82%
Total Count	0	587 70.72%	202 24.34%	5 0.60%	12 1.45%	5 0.60%	0 0.00%	9 1.08%	7 0.84%	2 0.24%	0 0.00%	0 0.00%	0 0.00%	0 0.00%	1 0.12%	830 100.00	22 2.65%	18 2.17%	40 4.82%

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Hourly Classification Count and Percent Distribution April 08, 2015 Road

Site names: 080253 Seasonal Factor Grp: 2
County: Martin Daily Factor Grp: 2
Funct Class: R Major Collector Axle Factor Grp: 07
Location: 080-KY-1714 -000 10.200 From: BUCK BRANCH ROAD To: KY Growth Factor Grp: 07

	MC	CAR	PU	BUS	2D	SU 3	SU 4+	ST 4-	ST 5	ST 6+	MT 5-	MT 6	MT 7+	NA	UNCLS	Total	Single	Combo	Trucks
	1410	Orac		500	20		00 41	014	010	01 01				1471	ONOLO	Total	Oirigio	Combo	Truoko
00	0	4	3	0	0	0	0	0	1	0	0	0	0	0	0	8	0	1	1
01	0.00%	50.00% 6	37.50% 1	0.00%	0.00%	0.00%	0.00%	0.00%	12.50%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	100.00	0.00%	12.50%	12.50%
	0.00%	75.00%		0.00%	0.00%	0.00%	0.00%	0.00%	12.50%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	100.00	0.00%	12.50%	12.50%
02	0	4	2	0	0	0	0	0	0	0	0	0	0	0	0	6	0	0	0
03		66.67%		0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	100.00	0.00%	0.00%	0.00%
	0.00%	2 66.67%	1 33.33%	0.00%	0 0.00%	0 0.00%	0.00%	0 0.00%	0 0.00%	0 0.00%	0 0.00%	0 0.00%	0 0.00%	0 0.00%	0 0.00%	3 100.00	0 0.00%	0.00%	0.00%
04	0	16	8	0	1	0	0	0	0	1	0	0	0	0	1	27	1	1	2
0.5	0.00%	59.26%		0.00%	3.70%	0.00%	0.00%	0.00%	0.00%	3.70%	0.00%	0.00%	0.00%	0.00%	3.70%	100.00	3.70%	3.70%	7.41%
05	0 0.00%	15 65.22%	7 30.43%	0.00%	0 0.00%	0 0.00%	0.00%	0 0.00%	0 0.00%	1 4.35%	0 0.00%	0 0.00%	0 0.00%	0 0.00%	0 0.00%	23 100.00	0 0.00%	1 4.35%	1 4.35%
06	0.0070	22	12	1	0.0070	0.0070	0.0070	0.0070	1	0	0.0070	0.0070	0.0070	0.0070	0.0070	36	1	1	2
	0.00%	61.11%	33.33%	2.78%	0.00%	0.00%	0.00%	0.00%	2.78%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	100.00	2.78%	2.78%	5.56%
07	0	68	21	3	0	0	0	0	0	0	0	0	0	0	0	92	3	0	3
08	0.00%	73.91% 39	22.83% 12	3.26%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	100.00 57	3.26%	0.00%	3.26%
	0.00%	68.42%		1.75%	5.26%	0.00%	0.00%	1.75%	1 1.75%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	100.00	7.02%	3.51%	10.53%
09	0	41	19	0	2	0	0	0	1	0	0	0	0	0	0	63	2	1	3
10	0.00%	65.08%	30.16%	0.00%	3.17%	0.00%	0.00%	0.00%	1.59%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	100.00	3.17%	1.59%	4.76%
10	0 0.00%	49 73.13%	15 22.39%	0.00%	2 2.99%	0 0.00%	0.00%	1 1.49%	0 0.00%	0 0.00%	0 0.00%	0 0.00%	0 0.00%	0 0.00%	0 0.00%	67 100.00	2 2.99%	1 1.49%	3 4.48%
11	0	48	22	0	0	1	0	0	1	0	0	0	0	0	0	72	1	1	2
	0.00%	66.67%	30.56%	0.00%	0.00%	1.39%	0.00%	0.00%	1.39%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	100.00	1.39%	1.39%	2.78%
12	0	51	30	0 0.00%	1 1.19%	1 1.19%	0 0.00%	0 0.00%	1 1.19%	0 0.00%	0 0.00%	0 0.00%	0 0.00%	0	0 0.00%	84 100.00	2 2.38%	1 1.19%	3 3.57%
13	0.00%	60.71% 67	35.71% 27	1	3	0	0.00%	1	1.19%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	100.00	2.38%	1.19%	6
	_	67.00%		1.00%	3.00%	0.00%	0.00%	1.00%	1.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	100.00	4.00%	2.00%	6.00%
14	0	78	40	1	2	0	0	1	1	0	0	0	0	0	0	123	3	2	5
15		63.41%	32.52%	0.81%	1.63%	0.00%	0.00%	0.81%	0.81%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	100.00	2.44%	1.63%	4.07%
15	1 0.93%	74 69.16%	26 24.30%	3 2.80%	2 1.87%	0 0.00%	0.00%	1 0.93%	0 0.00%	0 0.00%	0 0.00%	0 0.00%	0 0.00%	0 0.00%	0 0.00%	107 100.00	5 4.67%	1 0.93%	6 5.61%
16	0	79	34	0	0	2	0	3	0	0	0	0	0	0	0	118	2	3	5
4.7	0.00%	66.95%	28.81%	0.00%	0.00%	1.69%	0.00%	2.54%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	100.00	1.69%	2.54%	4.24%
17	0 0.00%	76 69.09%	30 27.27%	0 0.00%	2 1.82%	0 0.00%	0.00%	2 1.82%	0 0.00%	0 0.00%	0 0.00%	0 0.00%	0 0.00%	0 0.00%	0 0.00%	110 100.00	2 1.82%	2 1.82%	4 3.64%
18	0.0070	84	14	0.0070	1	0.0070	0.0070	2	1	1	0.0070	0.0070	0.0070	0.0070	0.0070	103	1	4	5
		81.55%	13.59%	0.00%	0.97%	0.00%	0.00%	1.94%	0.97%	0.97%	0.00%	0.00%	0.00%	0.00%	0.00%	100.00	0.97%	3.88%	4.85%
19	0	52	9	0	0	0	0	1	0	0	0	0	0	0	0	62	0	1	1
20	0.00%	83.87% 48	14.52% 11	0.00%	0.00%	0.00%	0.00%	1.61% 0	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	100.00 62	0.00%	1.61% 0	1.61%
	4.84%	77.42%	17.74%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	100.00	0.00%	0.00%	0.00%
21	0	29	9	0	0	0	0	0	1	0	0	0	0	0	0	39	0	1	1
22		74.36%		0.00%	0.00%	0.00%	0.00%	0.00%	2.56%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	100.00	0.00%	2.56%	2.56%
22	0 0.00%	24 82.76%	5 17.24%	0.00%	0 0.00%	0 0.00%	0.00%	0 0.00%	0 0.00%	0 0.00%	0 0.00%	0 0.00%	0 0.00%	0 0.00%	0 0.00%	29 100.00	0 0.00%	0.00%	0.00%
23	0	9	1	0	1	0	0	0	0	0	0	0	0	0	0	11	1	0	1
	0.00%	81.82%	9.09%	0.00%	9.09%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	100.00	9.09%	0.00%	9.09%
Total	4 0.28%	985 69.86%	359 25.46%	10 0.71%	20 1.42%	4 0.28%	0 0.00%	13 0.92%	11 0.78%	3 0.21%	0 0.00%	0 0.00%	0 0.00%	0 0.00%	1 0.07%	1,410 100.00	34 2.41%	27 1.91%	61 4.33%
Total Count	0.28%	985	359	10	20	4	0.00%	13	11	3	0.00%	0.00%	0.00%	0.00%	1	1,410	34	27	4.33%
	-		25.46%		1.42%	0.28%	0.00%	0.92%	0.78%	0.21%	0.00%	0.00%	0.00%	-	0.07%	100.00	2.41%	1.91%	4.33%

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Hourly Classification Count and Percent Distribution April 09, 2015 Road

Site names: 080253 Seasonal Factor Grp: 2
County: Martin Daily Factor Grp: 2
Funct Class: R Major Collector Axle Factor Grp: 07
Location: 080-KY-1714 -000 @ 10.200 From: BUCK BRANCH ROAD To: KY Growth Factor Grp: 07

	MC	CAR	PU	BUS	2D	SU 3	SU 4+	ST 4-	ST 5	ST 6+	MT 5-	MT 6	MT 7+	NA	UNCLS	Total	Single	Combo	Trucks
00	0	8 100.00	0 0.00%	0	0 0.00%	0	0	0 0.00%	0 0.00%	0	0 0.00%	0 0.00%	0	0	0	8 100.00	0	0 0.00%	0
01	0 0.00%	4 66.67%	2 33.33%	0 0.00%	0 0.00%	0 0.00%	0	0 0.00%	0 0.00%	0 0.00%	0 0.00%	0 0.00%	0 0.00%	0 0.00%	0 0.00%	6 100.00	0 0.00%	0 0.00%	0 0.00%
02	0 0.00%	3 60.00%	1 20.00%	0 0.00%	0 0.00%	0 0.00%	0	0 0.00%	1 20.00%	0 0.00%	0 0.00%	0 0.00%	0 0.00%	0 0.00%	0 0.00%	5 100.00	0 0.00%	1 20.00%	1 20.00%
03	0 0.00%	1 25.00%	1 25.00%	0 0.00%	0 0.00%	0 0.00%	0	0 0.00%	1 25.00%	1 25.00%	0 0.00%	0 0.00%	0 0.00%	0 0.00%	0 0.00%	4 100.00	0 0.00%	2 50.00%	2 50.00%
04	0	14	8	0	1	0	0	1	0	0	0	0	0	0	1	25	1	1	2
	0.00%	56.00%	32.00%	0.00%	4.00%	0.00%	0.00%	4.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	4.00%	100.00	4.00%	4.00%	8.00%
05	0	11	7	0	0	0	0	0	0	0	0	0	0	0	0	18	0	0	0
	0.00%	61.11%	38.89%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	100.00	0.00%	0.00%	0.00%
06	0	20	14	1	0	0	0	0	0	0	0	0	0	0	0	35	1	0	1
	0.00%	57.14%	40.00%	2.86%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	100.00	2.86%	0.00%	2.86%
07	0	77	23	3	1	0	0	1	0	0	0	0	0	0	0	105	4	1	5
	0.00%	73.33%	21.90%	2.86%	0.95%	0.00%	0.00%	0.95%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	100.00	3.81%	0.95%	4.76%
08	0	48	10	1	4	0	0	0	0	0	0	0	0	0	0	63	5	0	5
	0.00%	76.19%	15.87%	1.59%	6.35%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	100.00	7.94%	0.00%	7.94%
09	0	42	12	0	2	1	0	0	0	2	0	0	0	0	0	59	3	2	5
	0.00%	71.19%	20.34%	0.00%	3.39%	1.69%	0.00%	0.00%	0.00%	3.39%	0.00%	0.00%	0.00%	0.00%	0.00%	100.00	5.08%	3.39%	8.47%
10	0	52	14	0	2	2	0	0	0	0	0	0	0	0	0	70	4	0	4
	0.00%	74.29%	20.00%	0.00%	2.86%	2.86%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	100.00	5.71%	0.00%	5.71%
11	0	55	22	0	3	2	0	2	0	0	0	0	0	0	0	84	5	2	7
	0.00%	65.48%	26.19%	0.00%	3.57%	2.38%	0.00%	2.38%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	100.00	5.95%	2.38%	8.33%
12	0	79	22	1	0	1	0	1	0	0	0	0	1	0	0	105	2	2	4
	0.00%	75.24%	20.95%	0.95%	0.00%	0.95%	0.00%	0.95%	0.00%	0.00%	0.00%	0.00%	0.95%	0.00%	0.00%	100.00	1.90%	1.90%	3.81%
Total	0	414	136	6	13	6	0	5	2	3	0	0	1	0	1	587	25	11	36
	0.00%	70.53%	23.17%	1.02%	2.21%	1.02%	0.00%	0.85%	0.34%	0.51%	0.00%	0.00%	0.17%	0.00%	0.17%	100.00	4.26%	1.87%	6.13%
Total Count	0	414 70.53%	136 23.17%	6 1.02%	13 2.21%	6 1.02%	0 0.00%	5 0.85%	2 0.34%	3 0.51%	0 0.00%	0 0.00%	1 0.17%	0 0.00%	1 0.17%	587 100.00	25 4.26%	11 1.87%	36 6.13%

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Hourly Classification Count and Percent Distribution April 07, 2015 Pos

Site names: 080253 Seasonal Factor Grp: 2
County: Martin Daily Factor Grp: 2
Funct Class: R Major Collector Axle Factor Grp: 07
Location: 080-KY-1714 -000 @ 10.200 From: BUCK BRANCH ROAD To: KY Growth Factor Grp: 07

	МС	CAR	PU	BUS	2D	SU 3	SU 4+	ST 4-	ST 5	ST 6+	MT 5-	MT 6	MT 7+	NA	UNCLS	Total	Single	Combo	Trucks
13	0	33 67.35%	15 30.61%	1 2.04%	0	0	0	0 0.00%	0	0	0	0	0	0	0	49 100.00	1 2.04%	0 0.00%	1 2.04%
14	0 0.00%	45 61.64%	22 30.14%	1 1.37%	3 4.11%	2 2.74%	0 0.00%	0 0.00%	0	0	0	0 0.00%	0 0.00%	0	0	73 100.00	6 8.22%	0 0.00%	6 8.22%
15	0	28	11	0	1	1	0	2	0	0	0	0	0	0	0	43	2	2	4
	0.00%	65.12%	25.58%	0.00%	2.33%	2.33%	0.00%	4.65%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	100.00	4.65%	4.65%	9.30%
16	0	26	11	1	2	0	0	0	0	0	0	0	0	0	0	40	3	0	3
	0.00%	65.00%	27.50%	2.50%	5.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	100.00	7.50%	0.00%	7.50%
17	0	26	5	0	1	0	0	1	3	0	0	0	0	0	0	36	1	4	5
	0.00%	72.22%	13.89%	0.00%	2.78%	0.00%	0.00%	2.78%	8.33%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	100.00	2.78%	11.11%	13.89%
18	0	24	11	0	1	0	0	1	0	0	0	0	0	0	0	37	1	1	2
	0.00%	64.86%	29.73%	0.00%	2.70%	0.00%	0.00%	2.70%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	100.00	2.70%	2.70%	5.41%
19	0	22	5	0	0	0	0	0	0	0	0	0	0	0	0	27	0	0	0
	0.00%	81.48%	18.52%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	100.00	0.00%	0.00%	0.00%
20	0	15	4	0	0	0	0	0	0	0	0	0	0	0	0	19	0	0	0
	0.00%	78.95%	21.05%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	100.00	0.00%	0.00%	0.00%
21	0	11	1	0	0	0	0	0	0	0	0	0	0	0	0	12	0	0	0
	0.00%	91.67%	8.33%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	100.00	0.00%	0.00%	0.00%
22	0	7	1	0	0	0	0	0	0	0	0	0	0	0	0	8	0	0	0
	0.00%	87.50%	12.50%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	100.00	0.00%	0.00%	0.00%
23	0	1	1	0	0	0	0	0	0	0	0	0	0	0	0	2	0	0	0
	0.00%	50.00%	50.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	100.00	0.00%	0.00%	0.00%
Total	0	238	87	3	8	3	0	4	3	0	0	0	0	0	0	346	14	7	21
	0.00%	68.79%	25.14%	0.87%	2.31%	0.87%	0.00%	1.16%	0.87%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	100.00	4.05%	2.02%	6.07%
Total Count	0	238 68.79%	87 25.14%	3 0.87%	8 2.31%	3 0.87%	0 0.00%	4 1.16%	3 0.87%	0 0.00%	0 0.00%	0 0.00%	0 0.00%	0 0.00%	0 0.00%	346 100.00	14 4.05%	7 2.02%	21 6.07%

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Hourly Classification Count and Percent Distribution April 08, 2015 Pos

Site names: 080253 Seasonal Factor Grp: 2
County: Martin Daily Factor Grp: 2
Funct Class: R Major Collector Axle Factor Grp: 07
Location: 080-KY-1714 -000 @ 10.200 From: BUCK BRANCH ROAD To: KY Growth Factor Grp: 07

	MC	CAR	PU	BUS	2D	SU 3	SU 4+	ST 4-	ST 5	ST 6+	MT 5-	MT 6	MT 7+	NA	UNCLS	Total	Single	Combo	Trucks
	IVIC	CKI	۲٥	Б03	20	30 3	30 41	31 4-	5	31 0+	IVIT 3-	IVII O	IVII /Ŧ	INA	UNCLS	Total	Sirigle	Combo	TTUCKS
00	0	2	1	0	0	0	0	0	0	0	0	0	0	0	0	3	0	0	0
01	0.00%	66.67%	33.33%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	100.00	0.00%	0.00%	0.00%
	0.00%	50.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	50.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	100.00	0.00%	50.00%	50.00%
02	0	2	2	0	0	0	0	0	0	0	0	0	0	0	0	4	0	0	0
03	0.00%	50.00%	1	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	100.00	0.00%	0.00%	0.00%
			50.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	100.00	0.00%	0.00%	0.00%
04	0	13	8	0	1	0	0	0	0	1	0	0	0	0	1	24	1	1	2
05	0.00%	11	33.33% 5	0.00%	4.17% 0	0.00%	0.00%	0.00%	0.00%	4.17%	0.00%	0.00%	0.00%	0.00%	4.17% 0	100.00	4.17%	4.17%	8.33%
	0.00%		29.41%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	5.88%	0.00%	0.00%	0.00%	0.00%	0.00%	100.00	0.00%	5.88%	5.88%
06	0	17	8	0	0	0	0	0	1	0	0	0	0	0	0	26	0	1	1
07	0.00%	65.38% 52	30.77% 13	0.00%	0.00%	0.00%	0.00%	0.00%	3.85%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	100.00 67	0.00%	3.85%	3.85%
	0.00%	77.61%	-	2.99%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	100.00	2.99%	0.00%	2.99%
08	0	20	5	0	2	0	0	1 2 5 7 9/	0	0	0	0	0	0	0	28	2	1	3
09	0.00%	71.43% 24	17.86% 12	0.00%	7.14%	0.00%	0.00%	3.57%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	100.00 37	7.14%	3.57%	10.71%
	0.00%	64.86%	32.43%	0.00%	0.00%	0.00%	0.00%	0.00%	2.70%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	100.00	0.00%	2.70%	2.70%
10	0 0.00%	28 77.78%	7 19.44%	0 0.00%	1 2.78%	0 0.00%	36 100.00	1 2.78%	0 0.00%	1 2.78%									
11	0.0078	27	11	0.00%	0	1	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	39	1	0.0078	1
	0.00%	69.23%	28.21%	0.00%	0.00%	2.56%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	100.00	2.56%	0.00%	2.56%
12	0 0.00%	27 60.00%	16 35.56%	0 0.00%	1 2.22%	1 2.22%	0 0.00%	0 0.00%	0 0.00%	0 0.00%	0 0.00%	0 0.00%	0.00%	0 0.00%	0 0.00%	45 100.00	2 4.44%	0 0.00%	2 4.44%
13	0.0078	32	16	0.0078	3	0	0.0078	0.0070	1	0.0078	0.0078	0.0070	0.0078	0.0070	0.0070	52	3	1	4
	0.00%	61.54%	30.77%	0.00%	5.77%	0.00%	0.00%	0.00%	1.92%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	100.00	5.77%	1.92%	7.69%
14	0.00%	38 61.29%	21 33.87%	1 1.61%	1 1.61%	0 0.00%	0.00%	0.00%	1 1.61%	0.00%	0.00%	0 0.00%	0.00%	0.00%	0 0.00%	62 100.00	2 3.23%	1 1.61%	3 4.84%
15	1	19	14	0	2	0	0	0	0	0	0	0	0	0	0	36	2	0	2
16	2.78%	52.78%		0.00%	5.56%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	100.00	5.56%	0.00%	5.56%
16	0.00%	31 62.00%	15 30.00%	0.00%	0.00%	1 2.00%	0.00%	3 6.00%	0 0.00%	0.00%	0.00%	0 0.00%	0.00%	0.00%	0 0.00%	50 100.00	1 2.00%	3 6.00%	8.00%
17	0	30	9	0	0	0	0	1	0	0	0	0	0	0	0	40	0	1	1
18			22.50%	0.00%	0.00%	0.00%	0.00%	2.50%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	100.00	0.00%	2.50%	2.50%
10	0.00%	40 85.11%	5 10.64%	0.00%	0.00%	0 0.00%	0.00%	2 4.26%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	47 100.00	0.00%	2 4.26%	2 4.26%
19	0	21	3	0	0	0	0	0	0	0	0	0	0	0	0	24	0	0	0
20		87.50%		0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	100.00	0.00%	0.00%	0.00%
20	1 4.76%	16 76.19%	4 19.05%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	21 100.00	0.00%	0.00%	0.00%
21	0	15	5	0	0	0	0	0	0	0	0	0	0	0	0	20	0	0	0
22	0.00%	75.00%		0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	100.00	0.00%	0.00%	0.00%
	l	6 75.00%	2 25.00%	0.00%	0.00%	0 0.00%	0.00%	0 0.00%	0 0.00%	0.00%	0 0.00%	0 0.00%	0.00%	0 0.00%	0 0.00%	8 100.00	0 0.00%	0 0.00%	0.00%
23	0	4	0	0	0	0	0	0	0	0	0	0	0	0	0	4	0	0	0
Total	0.00%	100.00 477	0.00%	0.00%	0.00%	0.00%	0.00%	0.00% 7	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	100.00 694	0.00%	0.00%	0.00%
. 3.0.	0.29%	477 68.73%	183 26.37%	0.43%	11 1.59%	3 0.43%	0.00%	1.01%	5 0.72%	0.29%	0.00%	0.00%	0.00%	0.00%	1 0.14%	100.00	17 2.45%	14 2.02%	31 4.47%
Total Count	2	477	183	3	11	3	0	7	5	2	0	0	0	0	1	694	17	14	31
1	0.29%	68.73%	26.37%	0.43%	1.59%	0.43%	0.00%	1.01%	0.72%	0.29%	0.00%	0.00%	0.00%	0.00%	0.14%	100.00	2.45%	2.02%	4.47%

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Hourly Classification Count and Percent Distribution April 09, 2015 Pos

Site names: 080253 Seasonal Factor Grp: 2
County: Martin Daily Factor Grp: 2
Funct Class: R Major Collector Axle Factor Grp: 07
Location: 080-KY-1714 -000 10.200 From: BUCK BRANCH ROAD To: KY Growth Factor Grp: 07

	MC	CAR	PU	BUS	2D	SU 3	SU 4+	ST 4-	ST 5	ST 6+	MT 5-	MT 6	MT 7+	NA	UNCLS	Total	Single	Combo	Trucks
00	0	3 100.00	0 0.00%	0	0	0	0	0	0	0	0	0	0	0	0	3 100.00	0	0 0.00%	0
01	0	1 50.00%	1 50.00%	0 0.00%	0 0.00%	0 0.00%	0	0 0.00%	0 0.00%	0	0 0.00%	0 0.00%	0 0.00%	0 0.00%	0 0.00%	2 100.00	0 0.00%	0 0.00%	0 0.00%
02	0	1 50.00%	0 0.00%	0 0.00%	0 0.00%	0 0.00%	0	0 0.00%	1 50.00%	0	0 0.00%	0 0.00%	0 0.00%	0 0.00%	0 0.00%	2 100.00	0 0.00%	1 50.00%	1 50.00%
03	0	1	1	0	0	0	0	0	0	1	0	0	0	0	0	3	0	1	1
	0.00%	33.33%	33.33%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	33.33%	0.00%	0.00%	0.00%	0.00%	0.00%	100.00	0.00%	33.33%	33.33%
04	0	12	7	0	1	0	0	1	0	0	0	0	0	0	1	22	1	1	2
	0.00%	54.55%	31.82%	0.00%	4.55%	0.00%	0.00%	4.55%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	4.55%	100.00	4.55%	4.55%	9.09%
05	0	7	5	0	0	0	0	0	0	0	0	0	0	0	0	12	0	0	0
	0.00%	58.33%	41.67%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	100.00	0.00%	0.00%	0.00%
06	0	17	7	0	0	0	0	0	0	0	0	0	0	0	0	24	0	0	0
	0.00%	70.83%	29.17%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	100.00	0.00%	0.00%	0.00%
07	0	60	15	2	1	0	0	1	0	0	0	0	0	0	0	79	3	1	4
	0.00%	75.95%	18.99%	2.53%	1.27%	0.00%	0.00%	1.27%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	100.00	3.80%	1.27%	5.06%
08	0	23	5	0	2	0	0	0	0	0	0	0	0	0	0	30	2	0	2
	0.00%	76.67%	16.67%	0.00%	6.67%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	100.00	6.67%	0.00%	6.67%
09	0	28	7	0	1	1	0	0	0	0	0	0	0	0	0	37	2	0	2
	0.00%	75.68%	18.92%	0.00%	2.70%	2.70%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	100.00	5.41%	0.00%	5.41%
10	0	32	9	0	2	1	0	0	0	0	0	0	0	0	0	44	3	0	3
	0.00%	72.73%	20.45%	0.00%	4.55%	2.27%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	100.00	6.82%	0.00%	6.82%
11	0	30	14	0	1	1	0	1	0	0	0	0	0	0	0	47	2	1	3
	0.00%	63.83%	29.79%	0.00%	2.13%	2.13%	0.00%	2.13%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	100.00	4.26%	2.13%	6.38%
12	0	42	8	1	0	0	0	0	0	0	0	0	1	0	0	52	1	1	2
	0.00%	80.77%	15.38%	1.92%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	1.92%	0.00%	0.00%	100.00	1.92%	1.92%	3.85%
Total	0	257	79	3	8	3	0	3	1	1	0	0	1	0	1	357	14	6	20
	0.00%	71.99%	22.13%	0.84%	2.24%	0.84%	0.00%	0.84%	0.28%	0.28%	0.00%	0.00%	0.28%	0.00%	0.28%	100.00	3.92%	1.68%	5.60%
Total Count	U	257 71.99%	79 22.13%	3 0.84%	8 2.24%	3 0.84%	0 0.00%	3 0.84%	1 0.28%	1 0.28%	0 0.00%	0 0.00%	1 0.28%	0 0.00%	1 0.28%	357 100.00	14 3.92%	6 1.68%	20 5.60%

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Hourly Classification Count and Percent Distribution April 07, 2015 Neg

Site names: 080253 Seasonal Factor Grp: 2
County: Martin Daily Factor Grp: 2
Funct Class: R Major Collector Axle Factor Grp: 07
Location: 080-KY-1714 -000 @ 10.200 From: BUCK BRANCH ROAD To: KY Growth Factor Grp: 07

	MC	CAR	PU	BUS	2D	SU 3	SU 4+	ST 4-	ST 5	ST 6+	MT 5-	MT 6	MT 7+	NA	UNCLS	Total	Single	Combo	Trucks
13	0	33 78.57%	7 16.67%	0	0	0	0	1 2.38%	0	0	0	0	0	0	1 2.38%	42 100.00	0	1 2.38%	1 2.38%
14	0	42 66.67%	19 30.16%	0	2 3.17%	0	0 0.00%	0	0	0	0	0	0 0.00%	0	0	63 100.00	2 3.17%	0 0.00%	2 3.17%
15	0	40	12	2	1	1	0	0	0	0	0	0	0	0	0	56	4	0	4
	0.00%	71.43%	21.43%	3.57%	1.79%	1.79%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	100.00	7.14%	0.00%	7.14%
16	0	52	23	0	1	0	0	2	1	0	0	0	0	0	0	79	1	3	4
	0.00%	65.82%	29.11%	0.00%	1.27%	0.00%	0.00%	2.53%	1.27%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	100.00	1.27%	3.80%	5.06%
17	0	41	23	0	0	1	0	1	3	2	0	0	0	0	0	71	1	6	7
	0.00%	57.75%	32.39%	0.00%	0.00%	1.41%	0.00%	1.41%	4.23%	2.82%	0.00%	0.00%	0.00%	0.00%	0.00%	100.00	1.41%	8.45%	9.86%
18	0	36	13	0	0	0	0	0	0	0	0	0	0	0	0	49	0	0	0
	0.00%	73.47%	26.53%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	100.00	0.00%	0.00%	0.00%
19	0	37	6	0	0	0	0	0	0	0	0	0	0	0	0	43	0	0	0
	0.00%	86.05%	13.95%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	100.00	0.00%	0.00%	0.00%
20	0	31	7	0	0	0	0	0	0	0	0	0	0	0	0	38	0	0	0
	0.00%	81.58%	18.42%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	100.00	0.00%	0.00%	0.00%
21	0	20	3	0	0	0	0	0	0	0	0	0	0	0	0	23	0	0	0
	0.00%	86.96%	13.04%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	100.00	0.00%	0.00%	0.00%
22	0	14	1	0	0	0	0	0	0	0	0	0	0	0	0	15	0	0	0
	0.00%	93.33%	6.67%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	100.00	0.00%	0.00%	0.00%
23	0	3	1	0	0	0	0	1	0	0	0	0	0	0	0	5	0	1	1
	0.00%	60.00%	20.00%	0.00%	0.00%	0.00%	0.00%	20.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	100.00	0.00%	20.00%	20.00%
Total	0	349	115	2	4	2	0	5	4	2	0	0	0	0	1	484	8	11	19
	0.00%	72.11%	23.76%	0.41%	0.83%	0.41%	0.00%	1.03%	0.83%	0.41%	0.00%	0.00%	0.00%	0.00%	0.21%	100.00	1.65%	2.27%	3.93%
Total Count	U	349 72.11%	115 23.76%	2 0.41%	4 0.83%	2 0.41%	0 0.00%	5 1.03%	4 0.83%	2 0.41%	0 0.00%	0 0.00%	0 0.00%	0 0.00%	1 0.21%	484 100.00	8 1.65%	11 2.27%	19 3.93%

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Hourly Classification Count and Percent Distribution April 08, 2015 Neg

Site names:080253Seasonal Factor Grp:2County:MartinDaily Factor Grp:2Funct Class:R Major CollectorAxle Factor Grp:07Location:080-KY-1714 -000 @ 10.200 From: BUCK BRANCH ROAD To: KYGrowth Factor Grp:07

			-							- '			-						
	МС	CAR	PU	BUS	2D	SU 3	SU 4+	ST 4-	ST 5	ST 6+	MT 5-	MT 6	MT 7+	NA	UNCLS	Total	Single	Combo	Trucks
00	0 0.00%	2 40.00%	2 40.00%	0 0.00%	0 0.00%	0 0.00%	0 0.00%	0 0.00%	1 20.00%	0 0.00%	0 0.00%	0 0.00%	0 0.00%	0 0.00%	0 0.00%	5 100.00	0 0.00%	1 20.00%	1 20.00%
01	0	5 83.33%	1	0	0	0	0	0	0	0 0.00%	0	0	0 0.00%	0	0	6 100.00	0	0 0.00%	0 0.00%
02	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	2	0	0	0
03	0.00%	100.00	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	100.00	0.00%	0.00%	0.00%
04	0.00%	100.00	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	100.00	0.00%	0.00%	0.00%
25	0.00%	100.00	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	100.00	0.00%	0.00%	0.00%
05	0.00%	4 66.67%	2 33.33%	0 0.00%	0 0.00%	0 0.00%	0 0.00%	0 0.00%	0 0.00%	0.00%	0 0.00%	0 0.00%	0.00%	0.00%	0 0.00%	6 100.00	0 0.00%	0.00%	0.00%
06	0 0.00%	5 50.00%	4 40.00%	1 10.00%	0 0.00%	0 0.00%	0 0.00%	0 0.00%	0 0.00%	0 0.00%	0 0.00%	0 0.00%	0 0.00%	0 0.00%	0 0.00%	10 100.00	1 10.00%	0 0.00%	1 10.00%
07	0	16	8	1	0	0	0	0	0	0	0	0	0	0	0	25	1	0	1
08	0	64.00% 19	7	1	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	29	4.00%	0.00%	4.00%
09	0.00%	65.52% 17	24.14% 7	3.45% 0	3.45%	0.00%	0.00%	0.00%	3.45% 0	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	100.00 26	6.90%	3.45% 0	10.34%
10	0.00%	65.38% 21	26.92% 8	0.00%	7.69% 1	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	100.00 31	7.69%	0.00%	7.69%
	0.00%	67.74%	-	0.00%	3.23%	0.00%	0.00%	3.23%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	100.00	3.23%	3.23%	6.45%
11	0 0.00%	21 63.64%	11 33.33%	0 0.00%	0 0.00%	0 0.00%	0 0.00%	0 0.00%	1 3.03%	0.00%	0 0.00%	0 0.00%	0 0.00%	0 0.00%	0 0.00%	33 100.00	0 0.00%	1 3.03%	1 3.03%
12	0 0.00%	24 61.54%	14 35.90%	0 0.00%	0 0.00%	0 0.00%	0 0.00%	0 0.00%	1 2.56%	0 0.00%	0 0.00%	0 0.00%	0 0.00%	0 0.00%	0 0.00%	39 100.00	0 0.00%	1 2.56%	1 2.56%
13	0	35 72.92%	11	1 2.08%	0 0.00%	0 0.00%	0 0.00%	1 2.08%	0 0.00%	0 0.00%	0 0.00%	0 0.00%	0 0.00%	0 0.00%	0 0.00%	48 100.00	1 2.08%	1 2.08%	2 4.17%
14	0	40	19	0	1	0	0	1	0	0	0	0	0	0	0	61	1	1	2
15	0.00%	65.57% 55	31.15% 12	0.00%	1.64%	0.00%	0.00%	1.64%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	100.00 71	1.64%	1.64%	3.28%
16	0.00%	77.46%	16.90%	4.23%	0.00%	0.00%	0.00%	1.41%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	100.00	4.23%	1.41%	5.63%
	0 0.00%	48 70.59%	19 27.94%	0 0.00%	0 0.00%	1 1.47%	0 0.00%	0 0.00%	0 0.00%	0 0.00%	0 0.00%	0 0.00%	0 0.00%	0 0.00%	0 0.00%	68 100.00	1 1.47%	0 0.00%	1 1.47%
17	0 0.00%	46 65.71%	21 30.00%	0 0.00%	2 2.86%	0 0.00%	0 0.00%	1 1.43%	0 0.00%	0 0.00%	0 0.00%	0 0.00%	0 0.00%	0 0.00%	0 0.00%	70 100.00	2 2.86%	1 1.43%	3 4.29%
18	0 0.00%	44 78.57%	9 16.07%	0 0.00%	1 1.79%	0 0.00%	0 0.00%	0 0.00%	1 1.79%	1 1.79%	0 0.00%	0 0.00%	0 0.00%	0 0.00%	0 0.00%	56 100.00	1 1.79%	2 3.57%	3 5.36%
19	0	31	6	0	0	0	0	1	0	0	0	0	0	0	0	38	0	1	1
20	0.00%	81.58% 32	15.79% 7	0.00%	0.00%	0.00%	0.00%	2.63%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	100.00 41	0.00%	2.63%	2.63%
21		78.05%	17.07%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	100.00	0.00%	0.00%	0.00%
	0 0.00%	14 73.68%	4 21.05%	0 0.00%	0 0.00%	0.00%	0 0.00%	0 0.00%	1 5.26%	0 0.00%	0 0.00%	0 0.00%	0 0.00%	0 0.00%	0 0.00%	19 100.00	0 0.00%	1 5.26%	1 5.26%
22	0 0.00%	18 85.71%	3 14.29%	0 0.00%	0 0.00%	0 0.00%	0 0.00%	0 0.00%	0 0.00%	0 0.00%	0 0.00%	0 0.00%	0 0.00%	0 0.00%	0 0.00%	21 100.00	0 0.00%	0 0.00%	0 0.00%
23	0 0.00%	5 71.43%	1 14.29%	0 0.00%	1 14.29%	0 0.00%	0 0.00%	0 0.00%	0 0.00%	0 0.00%	0 0.00%	0 0.00%	0 0.00%	0 0.00%	0 0.00%	7 100.00	1 14.29%	0 0.00%	1 14.29%
Total	2 0.28%	508 70.95%	176 24.58%	7 0.98%	9	1 0.14%	0 0.00%	6 0.84%	6 0.84%	1 0.14%	0 0.00%	0 0.00%	0 0.00%	0 0.00%	0 0.00%	716 100.00	17 2.37%	13 1.82%	30 4.19%
Total Count	2	508	176	7	9	1	0	6	6	1	0	0	0	0	0	716	17	13	30
	0.28%	70.95%	24.58%	0.98%	1.26%	0.14%	0.00%	0.84%	0.84%	0.14%	0.00%	0.00%	0.00%	0.00%	0.00%	100.00	2.37%	1.82%	4.19%

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Hourly Classification Count and Percent Distribution April 09, 2015 Neg

Site names: 080253 Seasonal Factor Grp: 2
County: Martin Daily Factor Grp: 2
Funct Class: R Major Collector Axle Factor Grp: 07
Location: 080-KY-1714 -000 @ 10.200 From: BUCK BRANCH ROAD To: KY Growth Factor Grp: 07

	MC	CAR	PU	BUS	2D	SU 3	SU 4+	ST 4-	ST 5	ST 6+	MT 5-	MT 6	MT 7+	NA	UNCLS	Total	Single	Combo	Trucks
00	0	5 100.00	0 0.00%	0	0 0.00%	0	0	0	0	0	0	0	0	0	0	5 100.00	0	0 0.00%	0
01	0	3 75.00%	1 25.00%	0	0 0.00%	0 0.00%	4 100.00	0 0.00%	0 0.00%	0 0.00%									
02	0	2 66.67%	1 33.33%	0	0 0.00%	0 0.00%	0	0 0.00%	0 0.00%	0	0 0.00%	0 0.00%	0 0.00%	0 0.00%	0 0.00%	3 100.00	0 0.00%	0 0.00%	0 0.00%
03	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	1	0	1	1
	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	100.00	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	100.00	0.00%	100.00	100.00
04	0	2	1	0	0	0	0	0	0	0	0	0	0	0	0	3	0	0	0
	0.00%	66.67%	33.33%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	100.00	0.00%	0.00%	0.00%
05	0	4	2	0	0	0	0	0	0	0	0	0	0	0	0	6	0	0	0
	0.00%	66.67%	33.33%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	100.00	0.00%	0.00%	0.00%
06	0	3	7	1	0	0	0	0	0	0	0	0	0	0	0	11	1	0	1
	0.00%	27.27%	63.64%	9.09%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	100.00	9.09%	0.00%	9.09%
07	0	17	8	1	0	0	0	0	0	0	0	0	0	0	0	26	1	0	1
	0.00%	65.38%	30.77%	3.85%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	100.00	3.85%	0.00%	3.85%
08	0	25	5	1	2	0	0	0	0	0	0	0	0	0	0	33	3	0	3
	0.00%	75.76%	15.15%	3.03%	6.06%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	100.00	9.09%	0.00%	9.09%
09	0	14	5	0	1	0	0	0	0	2	0	0	0	0	0	22	1	2	3
	0.00%	63.64%	22.73%	0.00%	4.55%	0.00%	0.00%	0.00%	0.00%	9.09%	0.00%	0.00%	0.00%	0.00%	0.00%	100.00	4.55%	9.09%	13.64%
10	0	20	5	0	0	1	0	0	0	0	0	0	0	0	0	26	1	0	1
	0.00%	76.92%	19.23%	0.00%	0.00%	3.85%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	100.00	3.85%	0.00%	3.85%
11	0	25	8	0	2	1	0	1	0	0	0	0	0	0	0	37	3	1	4
	0.00%	67.57%	21.62%	0.00%	5.41%	2.70%	0.00%	2.70%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	100.00	8.11%	2.70%	10.81%
12	0	37	14	0	0	1	0	1	0	0	0	0	0	0	0	53	1	1	2
	0.00%	69.81%	26.42%	0.00%	0.00%	1.89%	0.00%	1.89%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	100.00	1.89%	1.89%	3.77%
Total	0	157	57	3	5	3	0	2	1	2	0	0	0	0	0	230	11	5	16
	0.00%	68.26%	24.78%	1.30%	2.17%	1.30%	0.00%	0.87%	0.43%	0.87%	0.00%	0.00%	0.00%	0.00%	0.00%	100.00	4.78%	2.17%	6.96%
Total Count	U	157 68.26%	57 24.78%	3 1.30%	5 2.17%	3 1.30%	0 0.00%	2 0.87%	1 0.43%	2 0.87%	0 0.00%	0 0.00%	0 0.00%	0 0.00%	0 0.00%	230 100.00	11 4.78%	5 2.17%	16 6.96%

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Hourly Classification Count and Percent Distribution April 07, 2015 Pos Lane1

Site names: 080253 Seasonal Factor Grp: 2
County: Martin Daily Factor Grp: 2
Funct Class: R Major Collector Axle Factor Grp: 07
Location: 080-KY-1714 -000 10.200 From: BUCK BRANCH ROAD To: KY Growth Factor Grp: 07

	МС	CAR	PU	BUS	2D	SU 3	SU 4+	ST 4-	ST 5	ST 6+	MT 5-	MT 6	MT 7+	NA	UNCLS	Total	Single	Combo	Trucks
13	0	33 67.35%	15 30.61%	1 2.04%	0	0	0	0 0.00%	0	0	0	0	0	0	0	49 100.00	1 2.04%	0 0.00%	1 2.04%
14	0 0.00%	45 61.64%	22 30.14%	1 1.37%	3 4.11%	2 2.74%	0 0.00%	0 0.00%	0	0	0	0	0 0.00%	0	0	73 100.00	6 8.22%	0 0.00%	6 8.22%
15	0	28	11	0	1	1	0	2	0	0	0	0	0	0	0	43	2	2	4
	0.00%	65.12%	25.58%	0.00%	2.33%	2.33%	0.00%	4.65%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	100.00	4.65%	4.65%	9.30%
16	0	26	11	1	2	0	0	0	0	0	0	0	0	0	0	40	3	0	3
	0.00%	65.00%	27.50%	2.50%	5.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	100.00	7.50%	0.00%	7.50%
17	0	26	5	0	1	0	0	1	3	0	0	0	0	0	0	36	1	4	5
	0.00%	72.22%	13.89%	0.00%	2.78%	0.00%	0.00%	2.78%	8.33%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	100.00	2.78%	11.11%	13.89%
18	0	24	11	0	1	0	0	1	0	0	0	0	0	0	0	37	1	1	2
	0.00%	64.86%	29.73%	0.00%	2.70%	0.00%	0.00%	2.70%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	100.00	2.70%	2.70%	5.41%
19	0	22	5	0	0	0	0	0	0	0	0	0	0	0	0	27	0	0	0
	0.00%	81.48%	18.52%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	100.00	0.00%	0.00%	0.00%
20	0	15	4	0	0	0	0	0	0	0	0	0	0	0	0	19	0	0	0
	0.00%	78.95%	21.05%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	100.00	0.00%	0.00%	0.00%
21	0	11	1	0	0	0	0	0	0	0	0	0	0	0	0	12	0	0	0
	0.00%	91.67%	8.33%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	100.00	0.00%	0.00%	0.00%
22	0	7	1	0	0	0	0	0	0	0	0	0	0	0	0	8	0	0	0
	0.00%	87.50%	12.50%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	100.00	0.00%	0.00%	0.00%
23	0	1	1	0	0	0	0	0	0	0	0	0	0	0	0	2	0	0	0
	0.00%	50.00%	50.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	100.00	0.00%	0.00%	0.00%
Total	0	238	87	3	8	3	0	4	3	0	0	0	0	0	0	346	14	7	21
	0.00%	68.79%	25.14%	0.87%	2.31%	0.87%	0.00%	1.16%	0.87%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	100.00	4.05%	2.02%	6.07%
Total Count	0	238 68.79%	87 25.14%	3 0.87%	8 2.31%	3 0.87%	0 0.00%	4 1.16%	3 0.87%	0 0.00%	0 0.00%	0 0.00%	0 0.00%	0 0.00%	0 0.00%	346 100.00	14 4.05%	7 2.02%	21 6.07%

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Hourly Classification Count and Percent Distribution April 08, 2015 Pos Lane1

Site names:080253Seasonal Factor Grp:2County:MartinDaily Factor Grp:2Funct Class:R Major CollectorAxle Factor Grp:07Location:080-KY-1714 -000 @ 10.200 From: BUCK BRANCH ROAD To: KYGrowth Factor Grp:07

	MC	CAR	PU	BUS	2D	SU 3	SU 4+	ST 4-	ST 5	ST 6+	MT 5-	MT 6	MT 7+	NA	UNCLS	Total	Single	Combo	Trucks
	IVIC	CKI	۲٥	Б03	20	30 3	30 41	31 4-	5	31 0+	IVIT 3-	IVII O	IVII / T	INA	UNCLS	Total	Sirigle	Combo	TTUCKS
00	0	2	1	0	0	0	0	0	0	0	0	0	0	0	0	3	0	0	0
01	0.00%	66.67%	33.33%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	100.00	0.00%	0.00%	0.00%
	0.00%	50.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	50.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	100.00	0.00%	50.00%	50.00%
02	0	2	2	0	0	0	0	0	0	0	0	0	0	0	0	4	0	0	0
03	0.00%	50.00%	1	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	100.00	0.00%	0.00%	0.00%
			50.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	100.00	0.00%	0.00%	0.00%
04	0	13	8	0	1	0	0	0	0	1	0	0	0	0	1	24	1	1	2
05	0.00%	11	33.33% 5	0.00%	4.17% 0	0.00%	0.00%	0.00%	0.00%	4.17%	0.00%	0.00%	0.00%	0.00%	4.17% 0	100.00	4.17%	4.17%	8.33%
	0.00%		29.41%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	5.88%	0.00%	0.00%	0.00%	0.00%	0.00%	100.00	0.00%	5.88%	5.88%
06	0	17	8	0	0	0	0	0	1	0	0	0	0	0	0	26	0	1	1
07	0.00%	65.38% 52	30.77% 13	0.00%	0.00%	0.00%	0.00%	0.00%	3.85%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	100.00 67	0.00%	3.85%	3.85%
	0.00%	77.61%	-	2.99%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	100.00	2.99%	0.00%	2.99%
08	0	20	5	0	2	0	0	1 2 5 7 9/	0	0	0	0	0	0	0	28	2	1	3
09	0.00%	71.43% 24	17.86% 12	0.00%	7.14%	0.00%	0.00%	3.57%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	100.00 37	7.14%	3.57%	10.71%
	0.00%	64.86%	32.43%	0.00%	0.00%	0.00%	0.00%	0.00%	2.70%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	100.00	0.00%	2.70%	2.70%
10	0 0.00%	28 77.78%	7 19.44%	0 0.00%	1 2.78%	0 0.00%	36 100.00	1 2.78%	0 0.00%	1 2.78%									
11	0.0078	27	11	0.0078	0	1	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	39	1	0.00%	1
	0.00%	69.23%	28.21%	0.00%	0.00%	2.56%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	100.00	2.56%	0.00%	2.56%
12	0 0.00%	27 60.00%	16 35.56%	0 0.00%	1 2.22%	1 2.22%	0 0.00%	0 0.00%	0 0.00%	0 0.00%	0 0.00%	0 0.00%	0.00%	0 0.00%	0 0.00%	45 100.00	2 4.44%	0 0.00%	2 4.44%
13	0.0078	32	16	0.0078	3	0	0.0078	0.0070	1	0.0078	0.0078	0.0070	0.0078	0.0070	0.0070	52	3	1	4
	0.00%	61.54%	30.77%	0.00%	5.77%	0.00%	0.00%	0.00%	1.92%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	100.00	5.77%	1.92%	7.69%
14	0.00%	38 61.29%	21 33.87%	1 1.61%	1 1.61%	0 0.00%	0.00%	0.00%	1 1.61%	0.00%	0.00%	0 0.00%	0.00%	0.00%	0 0.00%	62 100.00	2 3.23%	1 1.61%	3 4.84%
15	1	19	14	0	2	0	0	0	0	0	0	0	0	0	0	36	2	0	2
16	2.78%	52.78%		0.00%	5.56%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	100.00	5.56%	0.00%	5.56%
16	0.00%	31 62.00%	15 30.00%	0.00%	0.00%	1 2.00%	0.00%	3 6.00%	0 0.00%	0.00%	0.00%	0 0.00%	0.00%	0 0.00%	0 0.00%	50 100.00	1 2.00%	3 6.00%	8.00%
17	0	30	9	0	0	0	0	1	0	0	0	0	0	0	0	40	0	1	1
18			22.50%	0.00%	0.00%	0.00%	0.00%	2.50%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	100.00	0.00%	2.50%	2.50%
10	0.00%	40 85.11%	5 10.64%	0.00%	0.00%	0.00%	0.00%	2 4.26%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	47 100.00	0.00%	2 4.26%	2 4.26%
19	0	21	3	0	0	0	0	0	0	0	0	0	0	0	0	24	0	0	0
20		87.50%		0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	100.00	0.00%	0.00%	0.00%
20	1 4.76%	16 76.19%	4 19.05%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	21 100.00	0.00%	0.00%	0.00%
21	0	15	5	0	0	0	0	0	0	0	0	0	0	0	0	20	0	0	0
22	0.00%	75.00%		0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	100.00	0.00%	0.00%	0.00%
	l	6 75.00%	2 25.00%	0.00%	0.00%	0 0.00%	0.00%	0 0.00%	0 0.00%	0.00%	0 0.00%	0 0.00%	0.00%	0 0.00%	0 0.00%	8 100.00	0 0.00%	0 0.00%	0.00%
23	0	4	0	0	0	0	0	0	0	0	0	0	0	0	0	4	0	0	0
Total	0.00%	100.00 477	0.00%	0.00%	0.00%	0.00%	0.00%	0.00% 7	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	100.00 694	0.00%	0.00%	0.00%
. 3.0.	0.29%	477 68.73%	183 26.37%	0.43%	11 1.59%	3 0.43%	0.00%	7 1.01%	5 0.72%	0.29%	0.00%	0.00%	0.00%	0.00%	1 0.14%	100.00	17 2.45%	14 2.02%	31 4.47%
Total Count	2	477	183	3	11	3	0	7	5	2	0	0	0	0	1	694	17	14	31
1	0.29%	68.73%	26.37%	0.43%	1.59%	0.43%	0.00%	1.01%	0.72%	0.29%	0.00%	0.00%	0.00%	0.00%	0.14%	100.00	2.45%	2.02%	4.47%

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Hourly Classification Count and Percent Distribution April 09, 2015 Pos Lane1

Site names: 080253 Seasonal Factor Grp: 2
County: Martin Daily Factor Grp: 2
Funct Class: R Major Collector Axle Factor Grp: 07
Location: 080-KY-1714 -000 10.200 From: BUCK BRANCH ROAD To: KY Growth Factor Grp: 07

	MC	CAR	PU	BUS	2D	SU 3	SU 4+	ST 4-	ST 5	ST 6+	MT 5-	MT 6	MT 7+	NA	UNCLS	Total	Single	Combo	Trucks
00	0	3 100.00	0	0	0	0	0	0 0.00%	0	0	0	0	0	0 0.00%	0	3 100.00	0 0.00%	0 0.00%	0 0.00%
01	0 0.00%	1 50.00%	1 50.00%	0	0 0.00%	0	0	0	0 0.00%	0 0.00%	0 0.00%	0 0.00%	0	0	0	2 100.00	0 0.00%	0 0.00%	0 0.00%
02	0	1	0 0.00%	0	0 0.00%	0	0	0	1 50.00%	0	0	0 0.00%	0 0.00%	0	0	2	0	1 50.00%	1
03	0	1	1 33.33%	0	0 0.00%	0	0 0.00%	0	0	1 33.33%	0	0 0.00%	0 0.00%	0	0	3	0	1 33.33%	1
04	0	12 54.55%	7 31.82%	0	1 4.55%	0	0	1	0	0	0	0	0 0.00%	0	1 4.55%	22 100.00	1 4.55%	1 4.55%	2 9.09%
05	0	7	5	0	0	0	0	0	0	0	0	0	0	0	0	12	0	0	0
	0.00%	58.33%	41.67%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	100.00	0.00%	0.00%	0.00%
06	0	17	7	0	0	0	0	0	0	0	0	0	0	0	0	24	0	0	0
	0.00%	70.83%	29.17%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	100.00	0.00%	0.00%	0.00%
07	0	60	15	2	1	0	0	1	0	0	0	0	0	0	0	79	3	1	4
	0.00%	75.95%	18.99%	2.53%	1.27%	0.00%	0.00%	1.27%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	100.00	3.80%	1.27%	5.06%
08	0	23	5	0	2	0	0	0	0	0	0	0	0	0	0	30	2	0	2
	0.00%	76.67%	16.67%	0.00%	6.67%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	100.00	6.67%	0.00%	6.67%
09	0	28	7	0	1	1	0	0	0	0	0	0	0	0	0	37	2	0	2
	0.00%	75.68%	18.92%	0.00%	2.70%	2.70%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	100.00	5.41%	0.00%	5.41%
10	0	32	9	0	2	1	0	0	0	0	0	0	0	0	0	44	3	0	3
	0.00%	72.73%	20.45%	0.00%	4.55%	2.27%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	100.00	6.82%	0.00%	6.82%
11	0	30	14	0	1	1	0	1	0	0	0	0	0	0	0	47	2	1	3
	0.00%	63.83%	29.79%	0.00%	2.13%	2.13%	0.00%	2.13%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	100.00	4.26%	2.13%	6.38%
12	0	42	8	1	0	0	0	0	0	0	0	0	1	0	0	52	1	1	2
	0.00%	80.77%	15.38%	1.92%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	1.92%	0.00%	0.00%	100.00	1.92%	1.92%	3.85%
Total	0	257	79	3	8	3	0	3	1	1	0	0	1	0	1	357	14	6	20
	0.00%	71.99%	22.13%	0.84%	2.24%	0.84%	0.00%	0.84%	0.28%	0.28%	0.00%	0.00%	0.28%	0.00%	0.28%	100.00	3.92%	1.68%	5.60%
Total Count	0	257 71.99%	79 22.13%	3 0.84%	8 2.24%	3 0.84%	0 0.00%	3 0.84%	1 0.28%	1 0.28%	0 0.00%	0 0.00%	1 0.28%	0 0.00%	1 0.28%	357 100.00	14 3.92%	6 1.68%	20 5.60%

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Hourly Classification Count and Percent Distribution April 07, 2015 Neg Lane1

Site names: 080253 Seasonal Factor Grp: 2
County: Martin Daily Factor Grp: 2
Funct Class: R Major Collector Axle Factor Grp: 07
Location: 080-KY-1714 -000 @ 10.200 From: BUCK BRANCH ROAD To: KY Growth Factor Grp: 07

	MC	CAR	PU	BUS	2D	SU 3	SU 4+	ST 4-	ST 5	ST 6+	MT 5-	MT 6	MT 7+	NA	UNCLS	Total	Single	Combo	Trucks
13	0	33 78.57%	7 16.67%	0	0	0	0	1 2.38%	0	0	0	0	0	0	1 2.38%	42 100.00	0	1 2.38%	1 2.38%
14	0	42 66.67%	19 30.16%	0	2 3.17%	0	0 0.00%	0	0	0	0	0 0.00%	0 0.00%	0	0	63 100.00	2 3.17%	0 0.00%	2 3.17%
15	0	40	12	2	1	1	0	0	0	0	0	0	0	0	0	56	4	0	4
	0.00%	71.43%	21.43%	3.57%	1.79%	1.79%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	100.00	7.14%	0.00%	7.14%
16	0	52	23	0	1	0	0	2	1	0	0	0	0	0	0	79	1	3	4
	0.00%	65.82%	29.11%	0.00%	1.27%	0.00%	0.00%	2.53%	1.27%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	100.00	1.27%	3.80%	5.06%
17	0	41	23	0	0	1	0	1	3	2	0	0	0	0	0	71	1	6	7
	0.00%	57.75%	32.39%	0.00%	0.00%	1.41%	0.00%	1.41%	4.23%	2.82%	0.00%	0.00%	0.00%	0.00%	0.00%	100.00	1.41%	8.45%	9.86%
18	0	36	13	0	0	0	0	0	0	0	0	0	0	0	0	49	0	0	0
	0.00%	73.47%	26.53%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	100.00	0.00%	0.00%	0.00%
19	0	37	6	0	0	0	0	0	0	0	0	0	0	0	0	43	0	0	0
	0.00%	86.05%	13.95%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	100.00	0.00%	0.00%	0.00%
20	0	31	7	0	0	0	0	0	0	0	0	0	0	0	0	38	0	0	0
	0.00%	81.58%	18.42%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	100.00	0.00%	0.00%	0.00%
21	0	20	3	0	0	0	0	0	0	0	0	0	0	0	0	23	0	0	0
	0.00%	86.96%	13.04%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	100.00	0.00%	0.00%	0.00%
22	0	14	1	0	0	0	0	0	0	0	0	0	0	0	0	15	0	0	0
	0.00%	93.33%	6.67%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	100.00	0.00%	0.00%	0.00%
23	0	3	1	0	0	0	0	1	0	0	0	0	0	0	0	5	0	1	1
	0.00%	60.00%	20.00%	0.00%	0.00%	0.00%	0.00%	20.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	100.00	0.00%	20.00%	20.00%
Total	0	349	115	2	4	2	0	5	4	2	0	0	0	0	1	484	8	11	19
	0.00%	72.11%	23.76%	0.41%	0.83%	0.41%	0.00%	1.03%	0.83%	0.41%	0.00%	0.00%	0.00%	0.00%	0.21%	100.00	1.65%	2.27%	3.93%
Total Count	U	349 72.11%	115 23.76%	2 0.41%	4 0.83%	2 0.41%	0 0.00%	5 1.03%	4 0.83%	2 0.41%	0 0.00%	0 0.00%	0 0.00%	0 0.00%	1 0.21%	484 100.00	8 1.65%	11 2.27%	19 3.93%

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Hourly Classification Count and Percent Distribution April 08, 2015 Neg Lane1

Site names: 080253 Seasonal Factor Grp: 2
County: Martin Daily Factor Grp: 2
Funct Class: R Major Collector Axle Factor Grp: 07
Location: 080-KY-1714 -000 @ 10.200 From: BUCK BRANCH ROAD To: KY Growth Factor Grp: 07

	MC	CAR	PU	BUS	2D	SU 3	SU 4+	ST 4-	ST 5	ST 6+	MT 5-	MT 6	MT 7+	NA	UNCLS	Total	Single	Combo	Trucks
00																			
00	0 0.00%	2 40.00%	2 40.00%	0 0.00%	0 0.00%	0 0.00%	0 0.00%	0 0.00%	1 20.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0 0.00%	5 100.00	0.00%	1 20.00%	20.00%
01	0 0.00%	5 83.33%	1 16.67%	0 0.00%	0 0.00%	0 0.00%	0 0.00%	0 0.00%	0 0.00%	0 0.00%	0 0.00%	0 0.00%	0 0.00%	0 0.00%	0 0.00%	6 100.00	0 0.00%	0 0.00%	0 0.00%
02	0 0.00%	2 100.00	0 0.00%	0 0.00%	0 0.00%	0 0.00%	0 0.00%	0 0.00%	0 0.00%	0 0.00%	0 0.00%	0 0.00%	0 0.00%	0 0.00%	0 0.00%	2 100.00	0 0.00%	0 0.00%	0 0.00%
03	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0
04	0.00%	100.00	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	100.00	0.00%	0.00%	0.00%
	0.00%	100.00	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	100.00	0.00%	0.00%	0.00%
05	0 0.00%	4 66.67%	2 33.33%	0 0.00%	0 0.00%	0 0.00%	0 0.00%	0 0.00%	0 0.00%	0 0.00%	0 0.00%	0 0.00%	0.00%	0 0.00%	0 0.00%	6 100.00	0 0.00%	0 0.00%	0.00%
06	0	5	4	1	0	0	0	0	0	0	0.0070	0.0070	0.0070	0	0	10	1	0.0070	1
07	0.00%	50.00%		10.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	100.00	10.00%	0.00%	10.00%
07		16 64.00%	8 32.00%	1 4.00%	0.00%	0.00%	0 0.00%	0 0.00%	0 0.00%	0.00%	0.00%	0.00%	0 0.00%	0.00%	0 0.00%	25 100.00	1 4.00%	0.00%	4.00%
08	0 0.00%	19 65.52%	7 24.14%	1 3.45%	1 3.45%	0 0.00%	0 0.00%	0 0.00%	1 3.45%	0 0.00%	0 0.00%	0 0.00%	0 0.00%	0 0.00%	0 0.00%	29 100.00	2 6.90%	1 3.45%	3 10.34%
09	0 0.00%	17 65.38%	7 26.92%	0 0.00%	2 7.69%	0 0.00%	0 0.00%	0 0.00%	0 0.00%	0 0.00%	0 0.00%	0 0.00%	0.00%	0 0.00%	0 0.00%	26 100.00	2 7.69%	0 0.00%	2 7.69%
10	0	21 67.74%	8 25.81%	0 0.00%	1 3.23%	0 0.00%	0 0.00%	1 3.23%	0 0.00%	0 0.00%	0 0.00%	0 0.00%	0 0.00%	0 0.00%	0 0.00%	31 100.00	1 3.23%	1 3.23%	2 6.45%
11	0	21	11	0	0	0	0	0	1	0	0.0070	0.0070	0.0070	0	0	33	0	1	1
12		63.64%	33.33%	0.00%	0.00%	0.00%	0.00%	0.00%	3.03%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	100.00	0.00%	3.03%	3.03%
	0 0.00%	24 61.54%	14 35.90%	0 0.00%	0 0.00%	0 0.00%	0 0.00%	0 0.00%	1 2.56%	0 0.00%	0 0.00%	0 0.00%	0 0.00%	0 0.00%	0 0.00%	39 100.00	0 0.00%	1 2.56%	1 2.56%
13	0 0.00%	35 72.92%	11 22.92%	1 2.08%	0 0.00%	0 0.00%	0 0.00%	1 2.08%	0 0.00%	0 0.00%	0 0.00%	0 0.00%	0 0.00%	0 0.00%	0 0.00%	48 100.00	1 2.08%	1 2.08%	2 4.17%
14	0 0.00%	40 65.57%	19 31.15%	0 0.00%	1 1.64%	0 0.00%	0 0.00%	1 1.64%	0 0.00%	0 0.00%	0 0.00%	0 0.00%	0 0.00%	0 0.00%	0 0.00%	61 100.00	1 1.64%	1 1.64%	2 3.28%
15	0 0.00%	55 77.46%	12 16.90%	3 4.23%	0 0.00%	0 0.00%	0 0.00%	1 1.41%	0 0.00%	0 0.00%	0 0.00%	0 0.00%	0 0.00%	0 0.00%	0 0.00%	71 100.00	3 4.23%	1 1.41%	4 5.63%
16	0	48 70.59%	19	0 0.00%	0 0.00%	1 1.47%	0 0.00%	0 0.00%	0 0.00%	0 0.00%	0 0.00%	0 0.00%	0 0.00%	0 0.00%	0 0.00%	68 100.00	1 1.47%	0 0.00%	1 1.47%
17	0	46 65.71%	21	0 0.00%	2 2.86%	0 0.00%	0 0.00%	1 1.43%	0 0.00%	0 0.00%	0 0.00%	0 0.00%	0 0.00%	0 0.00%	0 0.00%	70 100.00	2 2.86%	1 1.43%	3 4.29%
18	0	44	9	0	1	0	0	0	1	1	0	0	0	0	0	56	1	2	3
19	0.00%	78.57% 31	16.07%	0.00%	1.79% 0	0.00%	0.00%	0.00%	1.79%	1.79% 0	0.00%	0.00%	0.00%	0.00%	0.00%	100.00	1.79% 0	3.57%	5.36%
20		81.58%		0.00%	0.00%	0.00%	0.00%	2.63%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	100.00	0.00%	2.63%	2.63%
20	2 4.88%	32 78.05%	7 17.07%	0 0.00%	0 0.00%	0 0.00%	0 0.00%	0 0.00%	0 0.00%	0 0.00%	0 0.00%	0 0.00%	0 0.00%	0 0.00%	0 0.00%	41 100.00	0 0.00%	0 0.00%	0 0.00%
21	0 0.00%	14 73.68%	4 21 05%	0 0.00%	0 0.00%	0 0.00%	0 0.00%	0 0.00%	1 5.26%	0 0.00%	0 0.00%	0 0.00%	0 0.00%	0 0.00%	0 0.00%	19 100.00	0 0.00%	1 5.26%	1 5.26%
22	0	18 85.71%	3	0 0.00%	0 0.00%	0 0.00%	0 0.00%	0 0.00%	0 0.00%	0 0.00%	0 0.00%	0 0.00%	0 0.00%	0 0.00%	0 0.00%	21 100.00	0 0.00%	0 0.00%	0 0.00%
23	0	5	1	0	1	0	0	0	0	0	0	0	0	0	0	7	1	0	1
Total	0.00%	71.43% 508	14.29% 176	0.00% 7	14.29% 9	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	100.00 716	14.29% 17	0.00%	14.29% 30
	0.28%	70.95%	24.58%	0.98%	1.26%	0.14%	0.00%	0.84%	0.84%	0.14%	0.00%	0.00%	0.00%	0.00%	0.00%	100.00	2.37%	1.82%	4.19%
Total Count	2 0.28%	508 70.95%	176 24.58%	7 0.98%	9 1.26%	1 0.14%	0 0.00%	6 0.84%	6 0.84%	1 0.14%	0 0.00%	0 0.00%	0.00%	0 0.00%	0 0.00%	716 100.00	17 2.37%	13 1.82%	30 4.19%

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Hourly Classification Count and Percent Distribution April 09, 2015 Neg Lane1

Site names: 080253 Seasonal Factor Grp: 2
County: Martin Daily Factor Grp: 2
Funct Class: R Major Collector Axle Factor Grp: 07
Location: 080-KY-1714 -000 @ 10.200 From: BUCK BRANCH ROAD To: KY Growth Factor Grp: 07

	MC	CAR	PU	BUS	2D	SU 3	SU 4+	ST 4-	ST 5	ST 6+	MT 5-	MT 6	MT 7+	NA	UNCLS	Total	Single	Combo	Trucks
00	0	5 100.00	0 0.00%	0	0 0.00%	0	0	0	0	0	0	0	0	0	0	5 100.00	0	0 0.00%	0
01	0	3 75.00%	1 25.00%	0	0 0.00%	0 0.00%	4 100.00	0 0.00%	0 0.00%	0 0.00%									
02	0	2 66.67%	1 33.33%	0	0 0.00%	0 0.00%	3 100.00	0 0.00%	0 0.00%	0 0.00%									
03	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	1	0	1	1
	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	100.00	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	100.00	0.00%	100.00	100.00
04	0	2	1	0	0	0	0	0	0	0	0	0	0	0	0	3	0	0	0
	0.00%	66.67%	33.33%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	100.00	0.00%	0.00%	0.00%
05	0	4	2	0	0	0	0	0	0	0	0	0	0	0	0	6	0	0	0
	0.00%	66.67%	33.33%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	100.00	0.00%	0.00%	0.00%
06	0	3	7	1	0	0	0	0	0	0	0	0	0	0	0	11	1	0	1
	0.00%	27.27%	63.64%	9.09%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	100.00	9.09%	0.00%	9.09%
07	0	17	8	1	0	0	0	0	0	0	0	0	0	0	0	26	1	0	1
	0.00%	65.38%	30.77%	3.85%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	100.00	3.85%	0.00%	3.85%
08	0	25	5	1	2	0	0	0	0	0	0	0	0	0	0	33	3	0	3
	0.00%	75.76%	15.15%	3.03%	6.06%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	100.00	9.09%	0.00%	9.09%
09	0	14	5	0	1	0	0	0	0	2	0	0	0	0	0	22	1	2	3
	0.00%	63.64%	22.73%	0.00%	4.55%	0.00%	0.00%	0.00%	0.00%	9.09%	0.00%	0.00%	0.00%	0.00%	0.00%	100.00	4.55%	9.09%	13.64%
10	0	20	5	0	0	1	0	0	0	0	0	0	0	0	0	26	1	0	1
	0.00%	76.92%	19.23%	0.00%	0.00%	3.85%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	100.00	3.85%	0.00%	3.85%
11	0	25	8	0	2	1	0	1	0	0	0	0	0	0	0	37	3	1	4
	0.00%	67.57%	21.62%	0.00%	5.41%	2.70%	0.00%	2.70%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	100.00	8.11%	2.70%	10.81%
12	0	37	14	0	0	1	0	1	0	0	0	0	0	0	0	53	1	1	2
	0.00%	69.81%	26.42%	0.00%	0.00%	1.89%	0.00%	1.89%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	100.00	1.89%	1.89%	3.77%
Total	0	157	57	3	5	3	0	2	1	2	0	0	0	0	0	230	11	5	16
	0.00%	68.26%	24.78%	1.30%	2.17%	1.30%	0.00%	0.87%	0.43%	0.87%	0.00%	0.00%	0.00%	0.00%	0.00%	100.00	4.78%	2.17%	6.96%
Total Count	U	157 68.26%	57 24.78%	3 1.30%	5 2.17%	3 1.30%	0 0.00%	2 0.87%	1 0.43%	2 0.87%	0 0.00%	0 0.00%	0 0.00%	0 0.00%	0 0.00%	230 100.00	11 4.78%	5 2.17%	16 6.96%

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Hourly Classification Count and Percent Distribution May 13, 2019 Road

080261 Seasonal Factor Grp: 2 Site names: County: Martin Daily Factor Grp: 2 80 Funct Class: R Minor Collector Axle Factor Grp: Location: 080-KY-1439 -000 @ 10.400 From: BIG CROOKED ROAD To: KY Growth Factor Grp: 80

	MC	CAR	PU	BUS	2D	SU 3	SU 4+	ST 4-	ST 5	ST 6+	MT 5-	MT 6	MT 7+	NA	UNCLS	Total	Single	Combo	Trucks
14	0	19	7	4	4	2	0	0	0	0	0	0	0	0	0	30	4	0	4
	ľ		23.33%	3.33%	3.33%	6.67%	0.00%		0.00%		0.00%		0.00%	0.00%	0.00%		-	_ ~	13.33%
15	0	26	25	1	0	0	0	0	0	3	0	0	0	0	0	55	1	3	4
	0.00%	47.27%	45.45%	1.82%	0.00%	0.00%	0.00%	0.00%	0.00%	5.45%	0.00%	0.00%	0.00%	0.00%	0.00%	100.00	1.82%	5.45%	7.27%
16	0 0.00%	36 52.94%	28 41.18%	0 0.00%	2 2.94%	0 0.00%	0 0.00%	0 0.00%	0 0.00%	1 1.47%	0	0 0.00%	0	0	1 1.47%	68 100.00	2 2.94%	1 1.47%	3 4.41%
17	0	25	7	0	1	1	0	0	1	0	0	0	0	0	0	35	2	1	3
	0.00%	71.43%	20.00%	0.00%	2.86%	2.86%	0.00%	0.00%	2.86%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	100.00	5.71%	2.86%	8.57%
18	0	12	8	0	0	0	0	0	0	0	0	0	0	0	0	20	0	0	0
	0.00%	60.00%	40.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	100.00	0.00%	0.00%	0.00%
19	0	12	7	0	2	0	0	0	0	0	0	0	0	0	0	21	2	0	2
	0.00%	57.14%	33.33%	0.00%	9.52%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	100.00	9.52%	0.00%	9.52%
20	0 0.00%	13 86.67%	2 13.33%	0 0.00%	0 0.00%	0 0.00%	0 0.00%	0 0.00%	0 0.00%	0	0	0 0.00%	0	0	0 0.00%	15 100.00	0 0.00%	0 0.00%	0 0.00%
21	0	14	4	0	1	0	0	0	0	0	0	0	0	0	0	19	1	0	1
	0.00%	73.68%	21.05%	0.00%	5.26%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	100.00	5.26%	0.00%	5.26%
22	0	3	1	0	0	0	0	0	1	0	0	0	0	0	0	5	0	1	1
	0.00%	60.00%	20.00%	0.00%	0.00%	0.00%	0.00%	0.00%	20.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	100.00	0.00%	20.00%	20.00%
23	0	6	0	0	0	0	0	0	0	0	0	0	0	0	0	6	0	0	0
	0.00%	100.00	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	100.00	0.00%	0.00%	0.00%
Total	0	166	89	2	7	3	0	0	2	4	0	0	0	0	1	274	12	6	18
	0.00%	60.58%	32.48%	0.73%	2.55%	1.09%	0.00%	0.00%	0.73%	1.46%	0.00%	0.00%	0.00%	0.00%	0.36%	100.00	4.38%	2.19%	6.57%
Total Count	0	166 60.58%	89 32.48%	2 0.73%	7 2.55%	3 1.09%	0 0.00%	0 0.00%	2 0.73%	4 1.46%	0 0.00%	0 0.00%	0 0.00%	0 0.00%	1 0.36%	274 100.00	12 4.38%	6 2.19%	18 6.57%

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Hourly Classification Count and Percent Distribution May 14, 2019 Road

080261 Seasonal Factor Grp: 2 Site names: County: Martin Daily Factor Grp: 2 80 Funct Class: R Minor Collector Axle Factor Grp: Location: 080-KY-1439 -000 @ 10.400 From: BIG CROOKED ROAD To: KY Growth Factor Grp: 80

	MC	CAR	PU	BUS	2D	SU 3	SU 4+	ST 4-	ST 5	ST 6+	MT 5-	MT 6	MT 7+	NA	UNCLS	Total	Single	Combo	Trucks
00	0 0.00%	5 71.43%	2 28.57%	0 0.00%	0 0.00%	0 0.00%	0 0.00%	0 0.00%	0 0.00%	0 0.00%	0 0.00%	0 0.00%	0 0.00%	0 0.00%	0 0.00%	7 100.00	0 0.00%	0 0.00%	0 0.00%
01	0	1 50.00%	1	0	0 0.00%	0	0	0 0.00%	0	0 0.00%	0	0	0 0.00%	0	0	2	0	0	0 0.00%
02	0 0.00%	1 20.00%	4	0 0.00%	0 0.00%	0 0.00%	0 0.00%	0 0.00%	0 0.00%	0 0.00%	0 0.00%	0 0.00%	0 0.00%	0 0.00%	0 0.00%	5 100.00	0 0.00%	0 0.00%	0 0.00%
03	0	0	1	0	1	0	0	0	0	0	0	0	0	0	0	2	1	0	1
04	0.00%	6	50.00% 6	0.00%	50.00% 0	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	100.00	50.00% 0	0.00%	0
05	0.00%	50.00% 9	50.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	100.00 19	0.00%	0.00%	0.00%
06	0.00%	47.37% 22	42.11% 19	0.00%	0.00%	5.26% 0	0.00%	0.00%	0.00%	5.26%	0.00%	0.00%	0.00%	0.00%	0.00%	100.00 45	5.26%	5.26%	10.53%
07	0.00%	48.89%	42.22%	2.22%	2.22%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	4.44%	0.00%	0.00%	100.00	4.44%	4.44%	8.89%
	0.00%	21 70.00%		2 6.67%	1 3.33%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%		3 10.00%	0.00%	3 10.00%
08	0 0.00%	11 68.75%	3 18.75%	1 6.25%	0 0.00%	0 0.00%	0 0.00%	1 6.25%	0 0.00%	16 100.00	1 6.25%	1 6.25%	2 12.50%						
09	0 0.00%	17 77.27%	5 22.73%	0 0.00%	0 0.00%	0 0.00%	0 0.00%	0 0.00%	0 0.00%	0 0.00%	0 0.00%	0 0.00%	0 0.00%	0 0.00%	0 0.00%	22 100.00	0 0.00%	0 0.00%	0 0.00%
10	0 0.00%	9 60.00%	5 33.33%	0 0.00%	1 6.67%	0 0.00%	15 100.00	1 6.67%	0 0.00%	1 6.67%									
11	0 0.00%	16 69.57%	5 21.74%	0	1 4.35%	0	0	0	0	0 0.00%	0 0.00%	0	0	0	1 4.35%	23 100.00	1 4.35%	0	1 4.35%
12	0	17	4	0	1	0	0	0	0	0	0	0	0	0	0	22	1	0	1
13	0.00%	77.27% 15	18.18% 3	0.00%	4.55%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	100.00	4.55%	0.00%	4.55%
14	0.00%	71.43% 16	14.29% 9	0.00%	14.29% 1	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	100.00 30	14.29% 3	0.00%	14.29%
15	6.67%	53.33% 19	30.00%	6.67%	3.33%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	100.00 53	10.00%	0.00%	10.00%
16	0.00%	35.85% 23	41.51% 20	1.89%	11.32%	1.89%	0.00%	0.00%	0.00%	7.55% 0	0.00%	0.00%	0.00%	0.00%	0.00%	100.00 54	15.09% 11	7.55% 0	22.64% 11
17	0.00%	42.59%	37.04%	0.00%	20.37%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	100.00	20.37%	0.00%	20.37%
	3 8.11%	24 64.86%	5 13.51%	0 0.00%	4 10.81%	0 0.00%	0.00%	1 2.70%	0 0.00%	0.00%	0 0.00%	0 0.00%	0 0.00%	0 0.00%	0.00%	37 100.00	4 10.81%	1 2.70%	5 13.51%
18	2 5.71%	17 48.57%	11 31.43%	0 0.00%	5 14.29%	0 0.00%	35 100.00	5 14.29%	0 0.00%	5 14.29%									
19	0 0.00%	9 60.00%	5 33.33%	1 6.67%	0 0.00%	0 0.00%	0 0.00%	0 0.00%	0 0.00%	0 0.00%	0 0.00%	0 0.00%	0 0.00%	0 0.00%	0 0.00%	15 100.00	1 6.67%	0 0.00%	1 6.67%
20	1 2.78%	19 52.78%	13 36.11%	0 0.00%	3 8.33%	0 0.00%	36 100.00	3 8.33%	0 0.00%	3 8.33%									
21	0	8 47.06%	6	0 0.00%	3 17.65%	0 0.00%	0 0.00%	0 0.00%	0 0.00%	0 0.00%	0 0.00%	0 0.00%	0 0.00%	0 0.00%	0 0.00%	17 100.00	3 17.65%	0 0.00%	3 17.65%
22	1	2	2	0	0	0	0	0	0	0	0	0	0	0	0	5	0	0	0
23	0	40.00%	5	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	1100.00	0.00%	0.00%	0.00%
Total	0.00%	45.45% 292	45.45% 170	0.00%	9.09%	0.00%	0.00%	0.00%	0.00%	0.00% 5	0.00%	0.00%	0.00%	0.00%	0.00%	100.00 534	9.09%	0.00% 9	9.09%
Total Count	1.69% 9	54.68% 292	31.84% 170	1.50% 8	8.05% 43	0.37%	0.00%	0.37%	0.00%	0.94%	0.00%	0.00%	0.37%	0.00%	0.19%	100.00 534	9.93% 53	1.69% 9	11.61% 62
	1.69%	54.68%		1.50%	8.05%	0.37%	0.00%	0.37%	0.00%	0.94%	0.00%	0.00%	0.37%	0.00%	0.19%	100.00	9.93%	1.69%	11.61%

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Hourly Classification Count and Percent Distribution May 15, 2019 Road

080261 Seasonal Factor Grp: 2 Site names: County: Martin Daily Factor Grp: 2 80 Funct Class: R Minor Collector Axle Factor Grp: Location: 080-KY-1439 -000 @ 10.400 From: BIG CROOKED ROAD To: KY Growth Factor Grp: 80

	MC	CAR	PU	BUS	2D	SU 3	SU 4+	ST 4-	ST 5	ST 6+	MT 5-	MT 6	MT 7+	NA	UNCLS	Total	Single	Combo	Trucks
00	2	1	0	0	1	0	0	0	0	0	0	0	0	0	0	4	1	0	1
	50.00%	25.00%	0.00%	0.00%	25.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	100.00	25.00%	0.00%	25.00%
01	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0
	0.00%	100.00	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	100.00	0.00%	0.00%	0.00%
02	1	2	3	0	1	0	0	0	0	0	0	0	0	0	0	7	1	0	1
	14.29%	28.57%	42.86%	0.00%	14.29%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	100.00	14.29%	0.00%	14.29%
03	0	1	0	1	1	0	0	0	0	0	0	0	0	0	0	3	2	0	2
	0.00%	33.33%	0.00%	33.33%	33.33%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	100.00	66.67%	0.00%	66.67%
04	0	4	4	0	0	0	0	0	0	0	0	0	0	0	0	8	0	0	0
	0.00%	50.00%	50.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	100.00	0.00%	0.00%	0.00%
05	0	13	11	0	1	0	0	0	0	0	0	0	0	0	0	25	1	0	1
	0.00%	52.00%	44.00%	0.00%	4.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	100.00	4.00%	0.00%	4.00%
06	0	18	12	1	2	0	0	0	0	2	0	0	0	0	0	35	3	2	5
	0.00%	51.43%	34.29%	2.86%	5.71%	0.00%	0.00%	0.00%	0.00%	5.71%	0.00%	0.00%	0.00%	0.00%	0.00%	100.00	8.57%	5.71%	14.29%
07	0	13	14	0	6	0	0	0	0	1	0	0	0	0	1	35	6	1	7
	0.00%	37.14%	40.00%	0.00%	17.14%	0.00%	0.00%	0.00%	0.00%	2.86%	0.00%	0.00%	0.00%	0.00%	2.86%	100.00	17.14%	2.86%	20.00%
08	0	10	5	0	4	0	0	0	0	1	0	0	0	0	0	20	4	1	5
	0.00%	50.00%	25.00%	0.00%	20.00%	0.00%	0.00%	0.00%	0.00%	5.00%	0.00%	0.00%	0.00%	0.00%	0.00%	100.00	20.00%	5.00%	25.00%
09	0	3	6	1	0	0	0	0	1	0	0	0	0	0	0	11	1	1	2
	0.00%	27.27%	54.55%	9.09%	0.00%	0.00%	0.00%	0.00%	9.09%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	100.00	9.09%	9.09%	18.18%
10	0	5	6	1	3	0	0	0	0	0	0	0	0	0	0	15	4	0	4
	0.00%	33.33%	40.00%	6.67%	20.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	100.00	26.67%	0.00%	26.67%
11	1	13	5	0	2	0	1	0	1	0	0	0	0	0	0	23	3	1	4
	4.35%	56.52%	21.74%	0.00%	8.70%	0.00%	4.35%	0.00%	4.35%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	100.00	13.04%	4.35%	17.39%
12	0	9	4	1	2	0	0	0	0	0	0	0	0	0	0	16	3	0	3
	0.00%	56.25%	25.00%	6.25%	12.50%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	100.00	18.75%	0.00%	18.75%
13	1	11	4	1	2	0	0	0	0	0	0	0	0	0	0	19	3	0	3
	5.26%	57.89%	21.05%	5.26%	10.53%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	100.00	15.79%	0.00%	15.79%
Total	5	104	74	6	25	0	1	0	2	4	0	0	0	0	1	222	32	6	38
	2.25%	46.85%	33.33%	2.70%	11.26%	0.00%	0.45%	0.00%	0.90%	1.80%	0.00%	0.00%	0.00%	0.00%	0.45%	100.00	14.41%	2.70%	17.12%
Total Count	ر ا	104 46.85%	74 33.33%	6 2.70%	25 11.26%	0 0.00%	1 0.45%	0 0.00%	2 0.90%	4 1.80%	0 0.00%	0 0.00%	0 0.00%	0 0.00%	1 0.45%	222 100.00	32 14.41%	6 2.70%	38 17.12%

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Hourly Classification Count and Percent Distribution May 13, 2019 Pos

080261 Seasonal Factor Grp: 2 Site names: County: Martin Daily Factor Grp: 2 80 Funct Class: R Minor Collector Axle Factor Grp: Location: 080-KY-1439 -000 @ 10.400 From: BIG CROOKED ROAD To: KY Growth Factor Grp: 80

	MC	CAR	PU	BUS	2D	SU 3	SU 4+	ST 4-	ST 5	ST 6+	MT 5-	MT 6	MT 7+	NA	UNCLS	Total	Single	Combo	Trucks
14	0	9	4	1	1	0	0	0	0	0	0	0	0	0	0	15	2	0	2
1.5	0.00%	60.00%	26.67%	6.67%	6.67%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%		13.33%	0.00%	13.33%
15	0	8	13	0	0	0	0	0	0	3	0	0	0	0	0	24	0	3	3
- 10	0.00%		54.17%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	12.50%	0.00%	0.00%	0.00%	0.00%	0.00%	100.00	0.00%	12.50%	12.50%
16	0	17	22	0	2	0	0	0	0	1	0	0	0	0	0	42	2	1	3
	0.00%	40.48%	52.38%	0.00%	4.76%	0.00%	0.00%	0.00%	0.00%	2.38%	0.00%	0.00%	0.00%	0.00%	0.00%	100.00	4.76%	2.38%	7.14%
17	0	9	4	0	1	0	0	0	1	0	0	0	0	0	0	15	1	1	2
	0.00%	60.00%	26.67%	0.00%	6.67%	0.00%	0.00%	0.00%	6.67%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	100.00	6.67%	6.67%	13.33%
18	0	4	1	0	0	0	0	0	0	0	0	0	0	0	0	5	0	0	0
	0.00%	80.00%	20.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	100.00	0.00%	0.00%	0.00%
19	0	6	5	0	1	0	0	0	0	0	0	0	0	0	0	12	1	0	1
	0.00%	50.00%	41.67%	0.00%	8.33%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	100.00	8.33%	0.00%	8.33%
20	0	4	2	0	0	0	0	0	0	0	0	0	0	0	0	6	0	0	0
	0.00%	66.67%	33.33%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	100.00	0.00%	0.00%	0.00%
21	0	5	1	0	0	0	0	0	0	0	0	0	0	0	0	6	0	0	0
	0.00%	83.33%	16.67%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	100.00	0.00%	0.00%	0.00%
22	0	1	1	0	0	0	0	0	1	0	0	0	0	0	0	3	0	1	1
	0.00%	33.33%	33.33%	0.00%	0.00%	0.00%	0.00%	0.00%	33.33%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	100.00	0.00%	33.33%	33.33%
23	0	3	0	0	0	0	0	0	0	0	0	0	0	0	0	3	0	0	0
	0.00%	100.00	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	100.00	0.00%	0.00%	0.00%
Total	0	66	53	1	5	0	0	0	2	4	0	0	0	0	0	131	6	6	12
	0.00%		40.46%	0.76%			0.00%		_	3.05%	0.00%		0.00%		_ ~	100.00		4.58%	9.16%
Total Count	0	66	53	1	5	0	0	0	2	4	0	0	0	0	0	131	6	6	12
	0.00%		40.46%	0.76%			ı ~		_	3.05%	0.00%	0.00%		0.00%		100.00		4.58%	

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Hourly Classification Count and Percent Distribution May 14, 2019 Pos

Site names: 080261 Seasonal Factor Grp: 2
County: Martin Daily Factor Grp: 2
Funct Class: R Minor Collector Axle Factor Grp: 08
Location: 080-KY-1439 -000 @ 10.400 From: BIG CROOKED ROAD To: KY Growth Factor Grp: 08

	MC	CAR	PU	BUS	2D	SU 3	SU 4+	ST 4-	ST 5	ST 6+	MT 5-	MT 6	MT 7+	NA	UNCLS	Total	Single	Combo	Trucks
	¥IO	07117	10	500	20	000	00 41	014	010	0101			1411 7 1	1471	ONOLO	Total	Olligio	Combo	Truoko
00	0	4	2	0	0	0	0	0	0	0	0	0	0	0	0	6	0	0	0
01		66.67%		0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	100.00	0.00%	0.00%	0.00%
	0 0.00%	0 0.00%	1 100.00	0.00%	0.00%	0 0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0 0.00%	100.00	0 0.00%	0.00%	0.00%
02	0	1	4	0	0	0	0	0	0	0	0	0	0	0	0	5	0	0	0
	0.00%	20.00%	80.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	100.00	0.00%	0.00%	0.00%
03	0	0	1	0	1	0	0	0	0	0	0	0	0	0	0	2	1	0	1
04	0.00%	0.00%	50.00%	0.00%	50.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	7	50.00%	0.00%	50.00%
	0.00%	71.43%		0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	100.00	0.00%	0.00%	0.00%
05	0	1	2	0	0	0	0	0	0	0	0	0	0	0	0	3	0	0	0
	0.00%	33.33%		0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	100.00	0.00%	0.00%	0.00%
06	0 0.00%	12 70.59%	4 23.53%	1 5.88%	0.00%	0 0.00%	0.00%	0.00%	0 0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0 0.00%	17 100.00	1 5.88%	0.00%	5.88%
07	0.00%	17	6	1	1	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	25	2	0.00%	2
	•	68.00%	-	4.00%	4.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	100.00	8.00%	0.00%	8.00%
08	0	6	2	0	0	0	0	0	0	0	0	0	0	0	0	8	0	0	0
09		75.00%		0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	100.00	0.00%	0.00%	0.00%
09	0 0.00%	8 72.73%	3 27.27%	0.00%	0.00%	0 0.00%	0.00%	0.00%	0 0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0 0.00%	11 100.00	0 0.00%	0.00%	0.00%
10	0.0070	6	4	0.0070	1	0.0070	0.0070	0.0070	0.0070	0.0070	0.0070	0.0070	0.0070	0.0070	0.0070	11	1	0.0070	1
	0.00%	54.55%	36.36%	0.00%	9.09%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	100.00	9.09%	0.00%	9.09%
11	0	5	4	0	1	0	0	0	0	0	0	0	0	0	0	10	1	0	1
12		50.00%		0.00%	10.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	100.00	10.00%	0.00%	10.00%
12	0 0.00%	4 66.67%	1 16.67%	0.00%	1 16.67%	0.00%	0.00%	0 0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0 0.00%	6 100.00	1 16.67%	0.00%	1 1 1 16.67%
13	0	8	3	0	3	0	0	0	0	0	0	0	0	0	0	14	3	0	3
	0.00%	57.14%	21.43%	0.00%	21.43%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	100.00	21.43%	0.00%	21.43%
14	1	4	5	2	1	0	0	0	0	0	0	0	0	0	0	13	3	0	3
15	7.69%	30.77% 6	38.46% 14	15.38%	7.69% 5	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	29	23.08%	0.00%	23.08%
"	-	20.69%	1	0.00%	17.24%	0.00%	0.00%	0.00%	0.00%	13.79%	0.00%	0.00%	0.00%	0.00%	0.00%		17.24%		
16	0	7	12	0	10	0	0	0	0	0	0	0	0	0	0	29	10	0	10
4.7	0.00%	24.14%	41.38%	0.00%	34.48%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	100.00	34.48%	0.00%	34.48%
17	2	8	4 22.22%	0.00%	3 16.67%	0 0.00%	0.00%	1 5.56%	0 0.00%	0.00%	0 0.00%	0 0.00%	0.00%	0 0.00%	0 0.00%	18 100.00	3 16.67%	1 5.56%	4 22.22%
18	1	0	5	0.00%	3	0.00%	0.00%	0	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	9	3	0	3
	11.11%		55.56%	0.00%	33.33%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%		33.33%	0.00%	33.33%
19	0	2	2	0	0	0	0	0	0	0	0	0	0	0	0	4	0	0	0
20			50.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	100.00	0.00%	0.00%	0.00%
20	0 0.00%	11 44 00%	11 44.00%	0.00%	3 12.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0 0.00%	25 100.00	3 12.00%	0.00%	3 12.00%
21	0.0070	2	4	0.0070	3	0	0.0070	0.0070	0.0070	0.0070	0.0070	0	0.0070	0.0070	0.0070	9	3	0.0070	3
	•	_	44.44%	0.00%	33.33%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	-	33.33%	0.00%	33.33%
22	0	1	2	0	0	0	0	0	0	0	0	0	0	0	0	3	0	0	0
23	0.00%		66.67%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	100.00	0.00%	0.00%	0.00%
	0 0.00%	2 28.57%	4 57.14%	0.00%	1 14.29%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0 0.00%	7 100.00	1 14.29%	0.00%	1 1 1 14.29%
Total	4	120	102	4	37	0	0	1	0	4	0	0	0	0	0	272	41	5	46
T	1.47%	44.12%	37.50%	1.47%	13.60%	0.00%	0.00%	0.37%	0.00%	1.47%	0.00%	0.00%	0.00%	0.00%	0.00%	100.00	15.07%	1.84%	16.91%
Total Count	4	120	102	4	37	0	0	1	0	4	0	0	0	0	0	272	41	5	46
	1.47%	44.12%	37.50%	1.47%	13.60%	0.00%	0.00%	0.37%	0.00%	1.47%	0.00%	0.00%	0.00%	0.00%	0.00%	100.00	15.07%	1.84%	16.91%

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Hourly Classification Count and Percent Distribution May 15, 2019 Pos

080261 Seasonal Factor Grp: 2 Site names: County: Martin Daily Factor Grp: 2 R Minor Collector Axle Factor Grp: 80 Funct Class: Location: 080-KY-1439 -000 @ 10.400 From: BIG CROOKED ROAD To: KY Growth Factor Grp: 80

	MC	CAR	PU	BUS	2D	SU 3	SU 4+	ST 4-	ST 5	ST 6+	MT 5-	MT 6	MT 7+	NA	UNCLS	Total	Single	Combo	Trucks
00	1	0	0	0	1	0	0	0	0	0	0	0	0	0	0	2	1	0	1
	50.00%	0.00%	0.00%	0.00%	50.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	100.00	50.00%	0.00%	50.00%
01	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0
	0.00%	100.00	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	100.00	0.00%	0.00%	0.00%
02	1	1	3	0	1	0	0	0	0	0	0	0	0	0	0	6	1	0	1
	16.67%	16.67%	50.00%	0.00%	16.67%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	100.00	16.67%	0.00%	16.67%
03	0	1	0	1	0	0	0	0	0	0	0	0	0	0	0	2	1	0	1
	0.00%	50.00%	0.00%	50.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	100.00	50.00%	0.00%	50.00%
04	0	3	2	0	0	0	0	0	0	0	0	0	0	0	0	5	0	0	0
	0.00%	60.00%	40.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	100.00	0.00%	0.00%	0.00%
05	0	2	4	0	0	0	0	0	0	0	0	0	0	0	0	6	0	0	0
	0.00%	33.33%	66.67%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	100.00	0.00%	0.00%	0.00%
06	0	7	2	1	2	0	0	0	0	0	0	0	0	0	0	12	3	0	3
	0.00%	58.33%	16.67%	8.33%	16.67%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	100.00	25.00%	0.00%	25.00%
07	0	9	10	0	6	0	0	0	0	0	0	0	0	0	0	25	6	0	6
	0.00%	36.00%	40.00%	0.00%	24.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	100.00	24.00%	0.00%	24.00%
08	0	3	4	0	4	0	0	0	0	0	0	0	0	0	0	11	4	0	4
	0.00%	27.27%	36.36%	0.00%	36.36%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	100.00	36.36%	0.00%	36.36%
09	0	3	5	0	0	0	0	0	1	0	0	0	0	0	0	9	0	1	1
	0.00%	33.33%	55.56%	0.00%	0.00%	0.00%	0.00%	0.00%	11.11%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	100.00	0.00%	11.11%	11.11%
10	0	2	3	1	1	0	0	0	0	0	0	0	0	0	0	7	2	0	2
	0.00%	28.57%	42.86%	14.29%	14.29%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	100.00	28.57%	0.00%	28.57%
11	0	7	2	0	2	0	0	0	0	0	0	0	0	0	0	11	2	0	2
	0.00%	63.64%	18.18%	0.00%	18.18%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	100.00	18.18%	0.00%	18.18%
12	0	3	1	0	2	0	0	0	0	0	0	0	0	0	0	6	2	0	2
	0.00%	50.00%	16.67%	0.00%	33.33%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	100.00	33.33%	0.00%	33.33%
13	0	5	3	1	2	0	0	0	0	0	0	0	0	0	0	11	3	0	3
	0.00%	45.45%	27.27%	9.09%	18.18%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	100.00	27.27%	0.00%	27.27%
Total	2	47	39	4	21	0	0	0	1	0	0	0	0	0	0	114	25	1	26
	1.75%	41.23%	34.21%	3.51%	18.42%	0.00%	0.00%	0.00%	0.88%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	100.00	21.93%	0.88%	22.81%
Total Count	4	47 41.23%	39 34.21%	4 3.51%	21 18.42%	0 0.00%	0 0.00%	0 0.00%	1 0.88%	0 0.00%	0 0.00%	0 0.00%	0 0.00%	0 0.00%	0 0.00%	114 100.00	25 21.93%	1 0.88%	26 22.81%

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Hourly Classification Count and Percent Distribution May 13, 2019 Neg

Site names: 080261 Seasonal Factor Grp: 2
County: Martin Daily Factor Grp: 2
Funct Class: R Minor Collector Axle Factor Grp: 08
Location: 080-KY-1439 -000 @ 10.400 From: BIG CROOKED ROAD To: KY Growth Factor Grp: 08

	MC	CAR	PU	BUS	2D	SU 3	SU 4+	ST 4-	ST 5	ST 6+	MT 5-	MT 6	MT 7+	NA	UNCLS	Total	Single	Combo	Trucks
14	0 0.00%	10 66.67%	3 20.00%	0	0 0.00%	2 13.33%	0	0 0.00%	0 0.00%	0	0	0	0	0	0	15 100.00	2 13.33%	0 0.00%	2 13.33%
15	0	18	12	1	0	0	0	0	0	0	0	0	0	0	0	31	1	0	1
	0.00%	58.06%	38.71%	3.23%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	100.00	3.23%	0.00%	3.23%
16	0	19	6	0	0	0	0	0	0	0	0	0	0	0	1	26	0	0	0
	0.00%	73.08%	23.08%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	3.85%	100.00	0.00%	0.00%	0.00%
17	0	16	3	0	0	1	0	0	0	0	0	0	0	0	0	20	1	0	1
	0.00%	80.00%	15.00%	0.00%	0.00%	5.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	100.00	5.00%	0.00%	5.00%
18	0	8	7	0	0	0	0	0	0	0	0	0	0	0	0	15	0	0	0
	0.00%	53.33%	46.67%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	100.00	0.00%	0.00%	0.00%
19	0	6	2	0	1	0	0	0	0	0	0	0	0	0	0	9	1	0	1
	0.00%	66.67%	22.22%	0.00%	11.11%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	100.00	11.11%	0.00%	11.11%
20	0	9	0	0	0	0	0	0	0	0	0	0	0	0	0	9	0	0	0
	0.00%	100.00	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	100.00	0.00%	0.00%	0.00%
21	0	9	3	0	1	0	0	0	0	0	0	0	0	0	0	13	1	0	1
	0.00%	69.23%	23.08%	0.00%	7.69%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	100.00	7.69%	0.00%	7.69%
22	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	2	0	0	0
	0.00%	100.00	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	100.00	0.00%	0.00%	0.00%
23	0	3	0	0	0	0	0	0	0	0	0	0	0	0	0	3	0	0	0
	0.00%	100.00	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	100.00	0.00%	0.00%	0.00%
Total	0	100	36	1	2	3	0	0	0	0	0	0	0	0	1	143	6	0	6
	0.00%	69.93%	25.17%	0.70%	1.40%	2.10%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.70%	100.00	4.20%	0.00%	4.20%
Total Count	0	100 69.93%	36 25.17%	1 0.70%	2 1.40%	3 2.10%	0 0.00%	1 0.70%	143 100.00	6 4.20%	0 0.00%	6 4.20%							

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Hourly Classification Count and Percent Distribution May 14, 2019 Neg

Site names:080261Seasonal Factor Grp:2County:MartinDaily Factor Grp:2Funct Class:R Minor CollectorAxle Factor Grp:08Location:080-KY-1439 -000 @ 10.400 From: BIG CROOKED ROAD To: KYGrowth Factor Grp:08

	MC	CAR	PU	BUS	2D	SU 3	SU 4+	ST 4-	ST 5	ST 6+	MT 5-	MT 6	MT 7+	NA	UNCLS	Total	Single	Combo	Trucks
	WIG	O/ ii t	10	500	20	000	00 41	01 +	010	01 01		1411 0		1471	ONOLO	rotai	Oiligic	Combo	Trucks
00	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0
01	0.00%	100.00	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	100.00	0.00%	0.00%	0.00%
01	0.00%	1 100.00	0.00%	0.00%	0.00%	0 0.00%	0.00%	0 0.00%	0 0.00%	0.00%	0 0.00%	0 0.00%	0 0.00%	0.00%	0.00%	100.00	0.00%	0.00%	0.00%
02	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
03	0.00%	0.00%	0.00%	0.00%	0.00%	0 0.00%	0.00%	0 0.00%	0 0.00%	0.00%	0 0.00%	0 0.00%	0 0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
04	0.00%	1	4	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	5	0.00%	0.00%	0.00%
	0.00%		80.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	100.00	0.00%	0.00%	0.00%
05	0	8	6	0	0	1	0	0	0	1	0	0	0	0	0	16	1	1	2
06	0.00%	50.00%		0.00%	0.00%	6.25%	0.00%	0.00%	0.00%	6.25%	0.00%	0.00%	0.00%	0.00%	0.00%	100.00	6.25%	6.25%	12.50%
00	0.00%	10 35.71%	15 53.57%	0.00%	1 3.57%	0 0.00%	0.00%	0 0.00%	0 0.00%	0.00%	0 0.00%	0 0.00%	2 7.14%	0.00%	0.00%	28 100.00	1 3.57%	2 7.14%	3 10.71%
07	0.0070	4	0	1	0.07 70	0.0070	0.0070	0.0070	0.0070	0.0070	0.0070	0.0070	0	0.0070	0.0070	5	1	0	1
	0.00%	80.00%	-	20.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%		20.00%	0.00%	20.00%
08	0	5	1	1	0	0	0	1	0	0	0	0	0	0	0	8	1	1	2
09	0.00%	62.50%		12.50%	0.00%	0.00%	0.00%	12.50%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	100.00	12.50%	12.50%	
	0.00%	9 81.82%	2 18.18%	0.00%	0.00%	0 0.00%	0.00%	0 0.00%	0 0.00%	0.00%	0.00%	0 0.00%	0.00%	0.00%	0.00%	11 100.00	0.00%	0.00%	0.00%
10	0	3	1	0	0	0	0	0	0	0	0	0	0	0	0	4	0	0	0
	0.00%	75.00%	25.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	100.00	0.00%	0.00%	0.00%
11	0	11	1	0	0	0	0	0	0	0	0	0	0	0	1	13	0	0	0
12	0.00%	84.62% 13	7.69%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	7.69%	100.00	0.00%	0.00%	0.00%
	0.00%	81.25%	18.75%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	100.00	0.00%	0.00%	0.00%
13	0	7	0	0	0	0	0	0	0	0	0	0	0	0	0	7	0	0	0
14	0.00%	100.00	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	100.00	0.00%	0.00%	0.00%
14	1 5.88%	12 70.59%	4 23.53%	0.00%	0.00%	0 0.00%	0.00%	0 0.00%	0 0.00%	0.00%	0 0.00%	0 0.00%	0 0.00%	0.00%	0.00%	17 100.00	0.00%	0.00%	0.00%
15	0	13	8	1	1	1	0.0070	0.0070	0	0.0070	0	0	0.0070	0	0	24	3	0	3
	0.00%	54.17%		4.17%	4.17%	4.17%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	100.00	12.50%	0.00%	12.50%
16	0	16	8	0	1	0	0	0	0	0	0	0	0	0	0	25	1	0	1
17		64.00%		0.00%	4.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	100.00	4.00%	0.00%	4.00%
''	5.26%	16 84.21%	1 5.26%	0.00%	1 5.26%	0.00%	0.00%	0 0.00%	0 0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	19 100.00	5.26%	0.00%	5.26%
18	1	17	6	0	2	0	0	0	0	0	0	0	0	0	0	26	2	0	2
<u></u>	3.85%	65.38%	23.08%	0.00%	7.69%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	100.00	7.69%	0.00%	7.69%
19	0	7	3	1	0	0	0	0	0	0	0	0	0	0	0	11	1	0	1
20	0.00%	63.64% 8	27.27%	9.09%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	100.00	9.09%	0.00%	9.09%
	9.09%	72.73%		0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	100.00	0.00%	0.00%	0.00%
21	0	6	2	0	0	0	0	0	0	0	0	0	0	0	0	8	0	0	0
22		75.00%		0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	100.00	0.00%	0.00%	0.00%
22	1 50 00%	1 50.00%	0 0.00%	0.00%	0 0.00%	0 0.00%	0.00%	0 0.00%	0 0.00%	0.00%	0 0.00%	0 0.00%	0 0.00%	0 0.00%	0 0.00%	2 100.00	0 0.00%	0 0.00%	0.00%
23	0	3	1	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	4	0.00%	0.00%	0.00%
		75.00%	1	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	100.00	0.00%	0.00%	0.00%
Total	I = -	172	68	4	6	2	0	1	0	1	0	0	2	0	1	262	12	4	16
1	5			ı					-	ı		-							
Total Count	1.91%	65.65% 172		1.53%	2.29%	0.76%	0.00%	0.38%	0.00%	0.38%	0.00%	0.00%	0.76%	0.00%	0.38%	100.00	4.58% 12	1.53% 4	6.11%

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Hourly Classification Count and Percent Distribution May 15, 2019 Neg

Seasonal Factor Grp: 080261 2 Site names: County: Martin Daily Factor Grp: 2 R Minor Collector Axle Factor Grp: 80 Funct Class: Location: 080-KY-1439 -000 @ 10.400 From: BIG CROOKED ROAD To: KY Growth Factor Grp: 80

	MC	CAR	PU	BUS	2D	SU 3	SU 4+	ST 4-	ST 5	ST 6+	MT 5-	MT 6	MT 7+	NA	UNCLS	Total	Single	Combo	Trucks
00	1 50.00%	1 50.00%	0 0.00%	0 0.00%	0 0.00%	0 0.00%	0 0.00%	0 0.00%	0 0.00%	0 0.00%	0 0.00%	0 0.00%	0 0.00%	0 0.00%	0 0.00%	2 100.00	0 0.00%	0 0.00%	0 0.00%
01	0 0.00%	0 0.00%	0 0.00%	0 0.00%	0 0.00%	0 0.00%	0 0.00%	0 0.00%	0 0.00%	0 0.00%	0 0.00%	0 0.00%	0 0.00%	0 0.00%	0 0.00%	0 0.00%	0 0.00%	0 0.00%	0 0.00%
02	0 0.00%	1 100.00	0 0.00%	0	0 0.00%	0	0	0 0.00%	0	0	0	0	0	0	0	1 100.00	0	0 0.00%	0 0.00%
03	0	0	0	0	1 100.00	0	0	0	0	0 0.00%	0	0	0	0	0	1 100.00	1	0	1 100.00
04	0	1 33.33%	2 66.67%	0	0	0	0	0	0	0 0.00%	0	0	0	0	0	3 100.00	0	0	0
05	0	11 57.89%	7 36.84%	0	1 5.26%	0	0	0	0	0	0	0	0	0	0	19 100.00	1 5.26%	0	1 5.26%
06	0	11 47.83%	10 43.48%	0	0	0	0	0 0.00%	0	2 8.70%	0	0	0	0	0	23 100.00	0	2 8.70%	2 8.70%
07	0	4 40.00%	4 40.00%	0	0	0	0	0	0	1 10.00%	0	0	0	0	1 10.00%	10	0	1 10.00%	1
08	0 0.00%	7 77.78%	1 11.11%	0	0 0.00%	0	0	0 0.00%	0	1 11.11%	0	0	0	0	0	9 100.00	0 0.00%	1 11.11%	1 11.11%
09	0 0.00%	0 0.00%	1 50.00%	1 50.00%	0 0.00%	0 0.00%	0 0.00%	0 0.00%	0 0.00%	0 0.00%	0 0.00%	0 0.00%	0 0.00%	0 0.00%	0 0.00%	2 100.00	1 50.00%	0 0.00%	1 50.00%
10	0 0.00%	3 37.50%	3 37.50%	0 0.00%	2 25.00%	0 0.00%	0 0.00%	0 0.00%	0 0.00%	0 0.00%	0 0.00%	0 0.00%	0 0.00%	0 0.00%	0 0.00%	8 100.00	2 25.00%	0 0.00%	2 25.00%
11	1 8.33%	6 50.00%	3 25.00%	0 0.00%	0 0.00%	0 0.00%	1 8.33%	0 0.00%	1 8.33%	0 0.00%	0 0.00%	0 0.00%	0 0.00%	0 0.00%	0 0.00%	12 100.00	1 8.33%	1 8.33%	2 16.67%
12	0 0.00%	6 60.00%	3 30.00%	1 10.00%	0 0.00%	0 0.00%	0 0.00%	0 0.00%	0 0.00%	0 0.00%	0 0.00%	0 0.00%	0 0.00%	0 0.00%	0 0.00%	10 100.00	1 10.00%	0 0.00%	1 10.00%
13	1 12.50%	6 75.00%	1 12.50%	0 0.00%	0 0.00%	0 0.00%	0 0.00%	0 0.00%	0 0.00%	0 0.00%	0 0.00%	0 0.00%	0 0.00%	0 0.00%	0 0.00%	8 100.00	0 0.00%	0 0.00%	0 0.00%
Total	3 2.78%	57 52.78%	35 32.41%	2 1.85%	4 3.70%	0 0.00%	1 0.93%	0 0.00%	1 0.93%	4 3.70%	0 0.00%	0 0.00%	0 0.00%	0 0.00%	1 0.93%	108 100.00	7 6.48%	5 4.63%	12 11.11%
Total Count)	57 52.78%	35 32.41%	2 1.85%	4 3.70%	0 0.00%	1 0.93%	0 0.00%	1 0.93%	4 3.70%	0 0.00%	0 0.00%	0 0.00%	0 0.00%	1 0.93%	108 100.00	7 6.48%	5 4.63%	12 11.11%

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Hourly Classification Count and Percent Distribution May 13, 2019 Pos Lane1

080261 Seasonal Factor Grp: 2 Site names: County: Martin Daily Factor Grp: 2 80 Funct Class: R Minor Collector Axle Factor Grp: Location: 080-KY-1439 -000 @ 10.400 From: BIG CROOKED ROAD To: KY Growth Factor Grp: 80

	MC	CAR	PU	BUS	2D	SU 3	SU 4+	ST 4-	ST 5	ST 6+	MT 5-	MT 6	MT 7+	NA	UNCLS	Total	Single	Combo	Trucks
14	0	9 60.00%	4 26.67%	1 6.67%	1 6.67%	0	0	0	0	0	0 0.00%	0	0	0	0	15 100.00	2 13.33%	0	2 13.33%
15	0	8	13	0	0	0	0	0	0	3	0	0	0	0	0	24	0	3	3
	0.00%	33.33%	54.17%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	12.50%	0.00%	0.00%	0.00%	0.00%	0.00%	100.00	0.00%	12.50%	12.50%
16	0	17	22	0	2	0	0	0	0	1	0	0	0	0	0	42	2	1	3
	0.00%	40.48%	52.38%	0.00%	4.76%	0.00%	0.00%	0.00%	0.00%	2.38%	0.00%	0.00%	0.00%	0.00%	0.00%	100.00	4.76%	2.38%	7.14%
17	0	9	4	0	1	0	0	0	1	0	0	0	0	0	0	15	1	1	2
	0.00%	60.00%	26.67%	0.00%	6.67%	0.00%	0.00%	0.00%	6.67%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	100.00	6.67%	6.67%	13.33%
18	0	4	1	0	0	0	0	0	0	0	0	0	0	0	0	5	0	0	0
	0.00%	80.00%	20.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	100.00	0.00%	0.00%	0.00%
19	0	6	5	0	1	0	0	0	0	0	0	0	0	0	0	12	1	0	1
	0.00%	50.00%	41.67%	0.00%	8.33%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	100.00	8.33%	0.00%	8.33%
20	0	4	2	0	0	0	0	0	0	0	0	0	0	0	0	6	0	0	0
	0.00%	66.67%	33.33%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	100.00	0.00%	0.00%	0.00%
21	0	5	1	0	0	0	0	0	0	0	0	0	0	0	0	6	0	0	0
	0.00%	83.33%	16.67%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	100.00	0.00%	0.00%	0.00%
22	0	1	1	0	0	0	0	0	1	0	0	0	0	0	0	3	0	1	1
	0.00%	33.33%	33.33%	0.00%	0.00%	0.00%	0.00%	0.00%	33.33%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	100.00	0.00%	33.33%	33.33%
23	0	3	0	0	0	0	0	0	0	0	0	0	0	0	0	3	0	0	0
	0.00%	100.00	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	100.00	0.00%	0.00%	0.00%
Total	0	66	53	1	5	0	0	0	2	4	0	0	0	0	0	131	6	6	12
	0.00%	50.38%	40.46%	0.76%	3.82%	0.00%	0.00%	0.00%	1.53%	3.05%	0.00%	0.00%	0.00%	0.00%	0.00%	100.00	4.58%	4.58%	9.16%
Total Count	0	66 50.38%	53 40.46%	1 0.76%	5 3.82%	0 0.00%	0 0.00%	0 0.00%	2 1.53%	4 3.05%	0 0.00%	0 0.00%	0 0.00%	0 0.00%	0 0.00%	131 100.00	6 4.58%	6 4.58%	12 9.16%

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Hourly Classification Count and Percent Distribution May 14, 2019 Pos Lane1

Site names:080261Seasonal Factor Grp:2County:MartinDaily Factor Grp:2Funct Class:R Minor CollectorAxle Factor Grp:08Location:080-KY-1439 -000 @ 10.400 From: BIG CROOKED ROAD To: KYGrowth Factor Grp:08

	MC	CAR	PU	BUS	2D	SU 3	SU 4+	ST 4-	ST 5	ST 6+	MT 5-	MT 6	MT 7+	NA	UNCLS	Total	Single	Combo	Trucks
	1410	07117		ВОО	20	000	00 41	01 4	010	0101		1411 0		1471	ONOLO	Total	Olligio	Combo	Truoko
00	0	4	2	0	0	0	0	0	0	0	0	0	0	0	0	6	0	0	0
01		66.67%	33.33%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	100.00	0.00%	0.00%	0.00%
	0.00%	0 0.00%	1 100.00	0.00%	0.00%	0 0.00%	0.00%	0 0.00%	0 0.00%	0.00%	0 0.00%	0 0.00%	0 0.00%	0 0.00%	0 0.00%	1 100.00	0 0.00%	0.00%	0.00%
02	0	1	4	0	0	0	0	0	0	0	0	0	0	0	0	5	0	0	0
	0.00%	20.00%	80.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	100.00	0.00%	0.00%	0.00%
03	0 0.00%	0 0.00%	1 50.00%	0 0.00%	1 50.00%	0 0.00%	0.00%	0 0.00%	0 0.00%	0.00%	0 0.00%	0 0.00%	0 0.00%	0 0.00%	0 0.00%	2 100.00	1	0 0.00%	1 50.00%
04	0.00%	5	2	0.00%	0	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	7	0	0.00%	0
	0.00%	71.43%		0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	100.00	0.00%	0.00%	0.00%
05	0	1	2	0	0	0	0	0	0	0	0	0	0	0	0	3	0	0	0
00	0.00%	33.33%		0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	100.00	0.00%	0.00%	0.00%
06	0.00%	12 70.59%	4 23.53%	1 5.88%	0.00%	0 0.00%	0.00%	0 0.00%	0 0.00%	0.00%	0 0.00%	0 0.00%	0 0.00%	0 0.00%	0 0.00%	17 100.00	1 5.88%	0.00%	5.88%
07	0.0070	17	6	1	1	0.0070	0.0070	0.0070	0.0070	0.0070	0.0070	0.0070	0.0070	0.0070	0.0070	25	2	0.0078	2
		68.00%	-	4.00%	4.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	100.00	8.00%	0.00%	8.00%
08	0	6	2	0	0	0	0	0	0	0	0	0	0	0	0	8	0	0	0
09		75.00%		0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	100.00	0.00%	0.00%	0.00%
	0 0.00%	8 72.73%	3 27.27%	0.00%	0.00%	0 0.00%	0.00%	0 0.00%	0 0.00%	0.00%	0 0.00%	0 0.00%	0 0.00%	0 0.00%	0 0.00%	11 100.00	0 0.00%	0.00%	0.00%
10	0	6	4	0	1	0	0	0	0	0	0	0	0	0	0	11	1	0	1
	0.00%	54.55%	36.36%	0.00%	9.09%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	100.00	9.09%	0.00%	9.09%
11	0	5	4	0	1	0	0	0	0	0	0	0	0	0	0	10	1	0	1
12	0.00%	50.00%	40.00%	0.00%	10.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	100.00	10.00%	0.00%	10.00%
		66.67%	16.67%	0.00%	16.67%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	100.00	16.67%	0.00%	16.67%
13	0	8	3	0	3	0	0	0	0	0	0	0	0	0	0	14	3	0	3
14			21.43%	0.00%	21.43%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	100.00		0.00%	21.43%
'4	1 7.69%	4 30.77%	5 38.46%	2 15.38%	7.69%	0 0.00%	0.00%	0 0.00%	0 0.00%	0.00%	0 0.00%	0 0.00%	0 0.00%	0 0.00%	0 0.00%	13 100.00	3 23.08%	0.00%	3 23.08%
15	0	6	14	0	5	0	0	0	0	4	0	0	0	0	0	29	5	4	9
	0.00%	20.69%	48.28%	0.00%	17.24%	0.00%	0.00%	0.00%	0.00%	13.79%	0.00%	0.00%	0.00%	0.00%	0.00%	100.00	17.24%	13.79%	31.03%
16	0	7	12	0	10	0	0	0	0	0	0	0	0	0	0	29	10	0	10
17	0.00%	24.14% 8	41.38%	0.00%	34.48%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	100.00		0.00%	34.48%
	l		22.22%	0.00%	3 16.67%	0.00%	0.00%	5.56%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	18 100.00	3 16.67%	5.56%	22.22%
18	1	0	5	0	3	0	0	0	0	0	0	0	0	0	0	9	3	0	3
40	11.11%	0.00%	55.56%	0.00%	33.33%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	100.00	33.33%	0.00%	33.33%
19	0 0.00%	2	2 50.00%	0.00%	0.00%	0 0.00%	0.00%	0 0.00%	0 0.00%	0.00%	0 0.00%	0 0.00%	0 0.00%	0 0.00%	0 0.00%	4 100.00	0 0.00%	0.00%	0.00%
20	0.00%	11	11	0.00%	3	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	25	3	0.00%	3
	0.00%	44.00%		0.00%	12.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	-	12.00%	0.00%	12.00%
21	0	2	4	0	3	0	0	0	0	0	0	0	0	0	0	9	3	0	3
22			44.44%	0.00%	33.33%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%		33.33%	0.00%	33.33%
	0 0.00%	1 33.33%	2 66.67%	0.00%	0.00%	0 0.00%	0.00%	0 0.00%	0 0.00%	0.00%	0 0.00%	0 0.00%	0 0.00%	0 0.00%	0 0.00%	3 100.00	0 0.00%	0.00%	0.00%
23	0	2	4	0	1	0	0	0	0	0.0070	0	0	0	0	0	7	1	0	1
<u> </u>	0.00%	28.57%	57.14%	0.00%	14.29%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	100.00	14.29%	0.00%	14.29%
Total	4	120	102	4	37	0	0	1	0	4	0	0	0	0	0	272	41	5	46
Total Count	1.47% 4	44.12% 120	37.50% 102	1.47% 4	13.60% 37	0.00%	0.00%	0.37%	0.00%	1.47%	0.00%	0.00%	0.00%	0.00%	0.00%	100.00 272	15.07% 41	1.84% 5	16.91%
	-		37.50%			0.00%	0.00%	0.37%	0.00%	1.47%	0.00%	0.00%	0.00%	-	0.00%		15.07%	1.84%	16.91%

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Hourly Classification Count and Percent Distribution May 15, 2019 Pos Lane1

080261 Seasonal Factor Grp: 2 Site names: County: Martin Daily Factor Grp: 2 80 Funct Class: R Minor Collector Axle Factor Grp: Location: 080-KY-1439 -000 @ 10.400 From: BIG CROOKED ROAD To: KY Growth Factor Grp: 80

	MC	CAR	PU	BUS	2D	SU 3	SU 4+	ST 4-	ST 5	ST 6+	MT 5-	MT 6	MT 7+	NA	UNCLS	Total	Single	Combo	Trucks
00	1 50.00%	0 0.00%	0 0.00%	0 0.00%	1 50.00%	0 0.00%	0 0.00%	0 0.00%	0 0.00%	0 0.00%	0 0.00%	0	0 0.00%	0 0.00%	0 0.00%	2 100.00	1 50.00%	0 0.00%	1 50.00%
01	0 0.00%	1 100.00	0 0.00%	0 0.00%	0 0.00%	0 0.00%	0 0.00%	0 0.00%	0 0.00%	0 0.00%	0 0.00%	0 0.00%	0 0.00%	0 0.00%	0 0.00%	1 100.00	0 0.00%	0 0.00%	0 0.00%
02	1 16.67%	1 16.67%	3 50.00%	0 0.00%	1 16.67%	0	0	0 0.00%	0	0 0.00%	0	0	0	0	0	6 100.00	1 16.67%	0 0.00%	1 16.67%
03	0	1 50.00%	0	1 50.00%	0	0	0	0	0	0 0.00%	0	0	0	0	0	2	1 50.00%	0	1 50.00%
04	0	3	2 40.00%	0	0 0.00%	0	0 0.00%	0 0.00%	0	0 0.00%	0 0.00%	0	0	0	0	5 100.00	0	0 0.00%	0 0.00%
05	0	2 33.33%	4 66.67%	0	0	0	0	0	0	0	0	0	0	0	0	6 100.00	0	0	0
06	0	7 58.33%	2 16.67%	1 8.33%	2 16.67%	0	0	0	0	0	0	0	0	0	0	12 100.00	3 25.00%	0	3 25.00%
07	0	9	10 40.00%	0	6	0	0	0	0	0 0.00%	0	0	0	0	0	25	6 24.00%	0	6 24.00%
08	0 0.00%	3 27.27%	4 36.36%	0 0.00%	4 36.36%	0 0.00%	0 0.00%	0 0.00%	0 0.00%	0 0.00%	0 0.00%	0 0.00%	0 0.00%	0 0.00%	0 0.00%	11 100.00	4 36.36%	0 0.00%	4 36.36%
09	0 0.00%	3 33.33%	5 55.56%	0 0.00%	0 0.00%	0 0.00%	0 0.00%	0 0.00%	1 11.11%	0 0.00%	0 0.00%	0 0.00%	0 0.00%	0 0.00%	0 0.00%	9 100.00	0 0.00%	1 11.11%	1 11.11%
10	0 0.00%	2 28.57%	3 42.86%	1 14.29%	1 14.29%	0 0.00%	0 0.00%	0 0.00%	0 0.00%	0 0.00%	0 0.00%	0 0.00%	0 0.00%	0 0.00%	0 0.00%	7 100.00	2 28.57%	0 0.00%	2 28.57%
11	0 0.00%	7 63.64%	2 18.18%	0 0.00%	2 18.18%	0 0.00%	0 0.00%	0 0.00%	0 0.00%	0 0.00%	0 0.00%	0 0.00%	0 0.00%	0 0.00%	0 0.00%	11 100.00	2 18.18%	0 0.00%	2 18.18%
12	0 0.00%	3 50.00%	1 16.67%	0 0.00%	2 33.33%	0 0.00%	0 0.00%	0 0.00%	0 0.00%	0 0.00%	0 0.00%	0 0.00%	0 0.00%	0 0.00%	0 0.00%	6 100.00	2 33.33%	0 0.00%	2 33.33%
13	0 0.00%	5 45.45%	3 27.27%	1 9.09%	2 18.18%	0 0.00%	0 0.00%	0 0.00%	0 0.00%	0 0.00%	0 0.00%	0 0.00%	0 0.00%	0 0.00%	0 0.00%	11 100.00	3 27.27%	0 0.00%	3 27.27%
Total	2 1.75%	47 41.23%	39 34.21%	4 3.51%	21 18.42%	0 0.00%	0 0.00%	0 0.00%	1 0.88%	0 0.00%	0 0.00%	0 0.00%	0 0.00%	0 0.00%	0 0.00%	114 100.00	25 21.93%	1 0.88%	26 22.81%
Total Count	4	47 41.23%	39 34.21%	4 3.51%	21 18.42%	0 0.00%	0 0.00%	0 0.00%	1 0.88%	0 0.00%	0 0.00%	0 0.00%	0 0.00%	0 0.00%	0 0.00%	114 100.00	25 21.93%	1 0.88%	26 22.81%

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Hourly Classification Count and Percent Distribution

May 13, 2019 Neg Lane1
Seasonal Factor Grp: 2

Site names:080261Seasonal Factor Grp:2County:MartinDaily Factor Grp:2Funct Class:R Minor CollectorAxle Factor Grp:08Location:080-KY-1439 -000 @ 10.400 From: BIG CROOKED ROAD To: KYGrowth Factor Grp:08

	MC	CAR	PU	BUS	2D	SU 3	SU 4+	ST 4-	ST 5	ST 6+	MT 5-	MT 6	MT 7+	NA	UNCLS	Total	Single	Combo	Trucks
14	0	10	3	0	0	2	0	0	0	0	0	0	0	0	0	15	2	0	2
45			20.00%	0.00%	0.00%	13.33%			0.00%		0.00%		0.00%	0.00%	0.00%		13.33%	0.00%	13.33%
15	0	18	12	1	0	0	0	0	0	0	0	0	0	0	0	31	1	0	1
40			38.71%		0.00%	0.00%	0.00%		0.00%	0.00%	0.00%		0.00%	0.00%	0.00%	100.00	3.23%	0.00%	3.23%
16	0	19	6	0	0	0	0	0	0	0	0	0	0	0	1	26	0	0	0
	0.00%	73.08%	23.08%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	3.85%	100.00	0.00%	0.00%	0.00%
17	0	16	3	0	0	1	0	0	0	0	0	0	0	0	0	20	1	0	1
	0.00%	80.00%	15.00%	0.00%	0.00%	5.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	100.00	5.00%	0.00%	5.00%
18	0	8	7	0	0	0	0	0	0	0	0	0	0	0	0	15	0	0	0
	0.00%	53.33%	46.67%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	100.00	0.00%	0.00%	0.00%
19	0	6	2	0	1	0	0	0	0	0	0	0	0	0	0	9	1	0	1
	0.00%	66.67%	22.22%	0.00%	11.11%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	100.00	11.11%	0.00%	11.11%
20	0	9	0	0	0	0	0	0	0	0	0	0	0	0	0	9	0	0	0
	0.00%	100.00	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	100.00	0.00%	0.00%	0.00%
21	0	9	3	0	1	0	0	0	0	0	0	0	0	0	0	13	1	0	1
	0.00%	69.23%	23.08%	0.00%	7.69%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	100.00	7.69%	0.00%	7.69%
22	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	2	0	0	0
	0.00%	100.00	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	100.00	0.00%	0.00%	0.00%
23	0	3	0	0	0	0	0	0	0	0	0	0	0	0	0	3	0	0	0
	0.00%	100.00		0.00%	0.00%	0.00%	0.00%		0.00%	ı ~	0.00%	0.00%	0.00%	0.00%	0.00%	100.00	0.00%	0.00%	0.00%
Total	0	100	36	1	2	3	0	0	0	0	0	0	0	0	1	143	6	0	6
	0.00%		25.17%	0.70%	_		0.00%		~	0.00%	0.00%	~	0.00%		0.70%	1		0.00%	4.20%
Total Count	0	100	36	1	2	3	0	0	0	0	0	0	0	0	1	143	6	0	6
	0.00%		25.17%	0.70%	1.40%	2.10%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.70%	1	4.20%	0.00%	4.20%
		-	•																

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Hourly Classification Count and Percent Distribution May 14, 2019 Neg Lane1

Site names: 080261 Seasonal Factor Grp: 2
County: Martin Daily Factor Grp: 2
Funct Class: R Minor Collector Axle Factor Grp: 08
Location: 080-KY-1439 -000 @ 10.400 From: BIG CROOKED ROAD To: KY Growth Factor Grp: 08

	MC	CAR	PU	BUS	2D	SU 3	SU 4+	ST 4-	ST 5	ST 6+	MT 5-	MT 6	MT 7+	NA	UNCLS	Total	Single	Combo	Trucks
	1410	07117		DOO	20	0	00 41	01 4	010	0101	1411 0	1411 0	1411 7 1	1471	OITOLO	Total	Oiligic	Combo	Trucks
00	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0
01	0.00%	100.00	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	100.00	0.00%	0.00%	0.00%
	0.00%	1 100.00	0.00%	0.00%	0.00%	0 0.00%	0.00%	0 0.00%	0 0.00%	0.00%	0.00%	0 0.00%	0.00%	0.00%	0 0.00%	100.00	0.00%	0.00%	0.00%
02	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
03	0.00%	0 0.00%	0.00%	0.00%	0.00%	0 0.00%	0.00%	0 0.00%	0 0.00%	0.00%	0.00%	0 0.00%	0.00%	0.00%	0 0.00%	0.00%	0.00%	0.00%	0.00%
04	0.0070	1	4	0.0070	0.0070	0.0070	0.0078	0.0070	0.0078	0.0078	0.0078	0.0070	0.0070	0.0078	0.0070	5	0.0078	0.0078	0.0070
	0.00%	20.00%	80.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	100.00	0.00%	0.00%	0.00%
05	0	8	6	0	0	1	0	0	0	1	0	0	0	0	0	16	1	1	2
06	0.00%	50.00% 10	37.50% 15	0.00%	0.00%	6.25%	0.00%	0.00%	0.00%	6.25%	0.00%	0.00%	0.00%	0.00%	0.00%	100.00	6.25%	6.25%	12.50%
	0.00%	35.71%		0.00%	3.57%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	7.14%	0.00%	0.00%	100.00	3.57%	7.14%	10.71%
07	0	4	0	1	0	0	0	0	0	0	0	0	0	0	0	5	1	0	1
00		80.00%	0.00%	20.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%		20.00%	0.00%	20.00%
08	0.00%	5 62.50%	1 12.50%	1 12.50%	0.00%	0 0.00%	0.00%	1 12.50%	0 0.00%	0.00%	0.00%	0 0.00%	0.00%	0 0.00%	0 0.00%	100.00	1 12.50%	1 12.50%	2 25.00%
09	0	9	2	0	0	0	0	0	0	0	0	0	0	0	0	11	0	0	0
10	0.00%	81.82% 3	18.18%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	100.00	0.00%	0.00%	0.00%
		75.00%		0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	100.00	0.00%	0.00%	0.00%
11	0	11	1	0	0	0	0	0	0	0	0	0	0	0	1	13	0	0	0
12	0.00%	84.62%	7.69%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	7.69%	100.00	0.00%	0.00%	0.00%
12	0.00%	13 81.25%	3 18.75%	0.00%	0.00%	0 0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	16 100.00	0.00%	0.00%	0.00%
13	0	7	0	0	0	0	0	0	0	0	0	0	0	0	0	7	0	0	0
- 44	0.00%	100.00	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	100.00	0.00%	0.00%	0.00%
14	1 5.88%	12 70.59%	4 23.53%	0.00%	0.00%	0 0.00%	0.00%	0 0.00%	0 0.00%	0.00%	0.00%	0 0.00%	0.00%	0.00%	0 0.00%	17 100.00	0.00%	0.00%	0.00%
15	0.0070	13	8	1	1	1	0.0070	0.0070	0.0070	0.0070	0.0078	0.0070	0.0070	0.0070	0.0070	24	3	0.0070	3
	0.00%	54.17%	33.33%	4.17%	4.17%	4.17%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	100.00	12.50%	0.00%	12.50%
16	0	16	8	0	1	0	0	0	0	0	0	0	0	0	0	25	1	0	1
17	0.00%	64.00% 16	32.00%	0.00%	4.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	100.00	4.00%	0.00%	4.00%
	5.26%	84.21%		0.00%	5.26%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	100.00	5.26%	0.00%	5.26%
18	1	17	6	0	2	0	0	0	0	0	0	0	0	0	0	26	2	0	2
19		65.38%		0.00%	7.69%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	100.00	7.69%	0.00%	7.69%
19	0.00%	7 63.64%	3 27.27%	1 9.09%	0.00%	0 0.00%	0.00%	0 0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	11 100.00	1 9.09%	0.00%	9.09%
20	1	8	2	0	0	0	0	0	0	0	0	0	0	0	0	11	0	0	0
	9.09%	72.73%	18.18%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	100.00	0.00%	0.00%	0.00%
21	0 0.00%	6 75.00%	25.00%	0 0.00%	0 0.00%	0 0.00%	0 0.00%	0 0.00%	0 0.00%	0 0.00%	0 0.00%	0 0.00%	0 0.00%	0 0.00%	0 0.00%	8 100.00	0 0.00%	0 0.00%	0.00%
22	1	1	25.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	2	0.00%	0.00%	0.00%
		50.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	100.00	0.00%	0.00%	0.00%
23	0	3	1	0	0	0	0	0	0	0	0	0	0	0	0	4	0	0	0
Total		75.00%		0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	100.00	0.00%	0.00%	0.00%
- Total	5 1.91%	172 65.65%	68 25.95%	4 1.53%	6 2.29%	2 0.76%	0 0.00%	1 0.38%	0 0.00%	1 0.38%	0.00%	0 0.00%	2 0.76%	0 0.00%	1 0.38%	262 100.00	12 4.58%	4 1.53%	16 6.11%
Total Count	5	172	68	4	6	2	0	1	0	1	0	0	2	0	1	262	12	4	16
	1.91%	65.65%	25.95%	1.53%	2.29%	0.76%	0.00%	0.38%	0.00%	0.38%	0.00%	0.00%	0.76%	0.00%	0.38%	100.00	4.58%	1.53%	6.11%

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Hourly Classification Count and Percent Distribution May 15, 2019 Neg Lane1

Site names: 080261 Seasonal Factor Grp: 2
County: Martin Daily Factor Grp: 2
Funct Class: R Minor Collector Axle Factor Grp: 08
Location: 080-KY-1439 -000 @ 10.400 From: BIG CROOKED ROAD To: KY Growth Factor Grp: 08

	MC	CAR	PU	BUS	2D	SU 3	SU 4+	ST 4-	ST 5	ST 6+	MT 5-	MT 6	MT 7+	NA	UNCLS	Total	Single	Combo	Trucks
00	1 50.00%	1 50.00%	0	0	0	0	0	0	0	0	0	0	0	0	0	2 100.00	0 0.00%	0 0.00%	0
01	0.00%	0 0.00%	0 0.00%	0	0 0.00%	0	0 0.00%	0	0 0.00%	0 0.00%	0 0.00%	0 0.00%	0	0	0	0	0 0.00%	0 0.00%	0 0.00%
02	0 0.00%	1 100.00	0	0 0.00%	0 0.00%	0 0.00%	0 0.00%	0 0.00%	0 0.00%	0 0.00%	0 0.00%	0 0.00%	0 0.00%	0 0.00%	0 0.00%	1 100.00	0	0 0.00%	0 0.00%
03	0 0.00%	0 0.00%	0	0 0.00%	1 100.00	0 0.00%	0 0.00%	0 0.00%	0 0.00%	0 0.00%	0 0.00%	0 0.00%	0 0.00%	0 0.00%	0 0.00%	1	1 100.00	0	1 100.00
04	0	1	2 66.67%	0	0 0.00%	0 0.00%	0 0.00%	0 0.00%	0 0.00%	0 0.00%	0 0.00%	0 0.00%	0 0.00%	0 0.00%	0 0.00%	3	0	0 0.00%	0
05	0	11	7 36.84%	0	1 5.26%	0	0 0.00%	0 0.00%	0 0.00%	0 0.00%	0	0 0.00%	0 0.00%	0 0.00%	0 0.00%	19	1	0 0.00%	1 5.26%
06	0	11	10 43.48%	0	0 0.00%	0 0.00%	0 0.00%	0 0.00%	0 0.00%	2 8.70%	0	0 0.00%	0 0.00%	0 0.00%	0 0.00%	23	0	2 8.70%	2 8.70%
07	0 0.00%	4	4 40.00%	0	0 0.00%	0 0.00%	0 0.00%	0 0.00%	0 0.00%	1	0	0 0.00%	0 0.00%	0	1 10.00%	10	0	1	1
08	0	7	1	0	0 0.00%	0	0 0.00%	0 0.00%	0	1	0	0	0 0.00%	0 0.00%	0	9	0	1	1
09	0	0	1 50.00%	1	0	0	0 0.00%	0 0.00%	0 0.00%	0 0.00%	0	0 0.00%	0	0 0.00%	0	2	1	0	1 50.00%
10	0 0.00%	3	3 37.50%	0	2 25.00%	0	0 0.00%	0 0.00%	0 0.00%	0 0.00%	0 0.00%	0 0.00%	0 0.00%	0 0.00%	0 0.00%	8	2 25.00%	0	2 25.00%
11	1	6	3 25.00%	0	0 0.00%	0	1 8.33%	0 0.00%	1 8.33%	0 0.00%	0 0.00%	0 0.00%	0	0 0.00%	0	12	1 8.33%	1	2
12	0	6 60.00%	3 30.00%	1 10.00%	0	0	0	0	0	0	0	0	0	0	0	10	1 10.00%	0	1 10.00%
13	1	6	1 12.50%	0	0 0.00%	0	0 0.00%	0 0.00%	0 0.00%	0 0.00%	0	0 0.00%	0 0.00%	0 0.00%	0 0.00%	8	0	0 0.00%	0 0.00%
Total	3 2.78%	57 52.78%	35 32.41%	2 1.85%	4 3.70%	0	1 0.93%	0	1 0.93%	4 3.70%	0	0	0	0	1 0.93%	108 100.00	7 6.48%	5 4.63%	12 11.11%
Total Count	3	57	35 32.41%	2	4	0	1	0	1	4	0	0	0	0	1	108	7	5	12

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